

## Draft March 2010 Municipal Water Demand Forecasts for the Coosa North Georgia (CNG) Water Planning Region

### CNG1. Municipal Per Capita Water Use Rate

COUNTY	Public Supplied <sup>1</sup>	Base Year	Self Supplied <sup>2</sup>
Catoosa	121	2005	75
Chattooga	164	2005	75
Dade	147	2005	75
Dawson	138	2005	75
Fannin	151	2005	75
Floyd	133	2005	75
Gilmer	141	2005	75
Gordon	159	2005	75
Habersham	170	2005	75
Lumpkin	166	2005	75
Murray	145	2005	75
Pickens	126	2005	75
Polk	167	2005	75
Towns	141	2005	75
Union	149	2005	75
Walker	121	2005	75
White	150	2005	75
Whitfield	224	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

### CNG2. Total Municipal Water Demand (mgd), Average Annual Demand (AAD)

COUNTY	2010	2020	2030	2040	2050
Catoosa	7.46	9.25	11.35	13.92	17.11
Chattooga	4.12	4.55	5.01	5.46	5.91
Dade	2.43	2.77	3.09	3.26	3.37
Dawson	2.78	3.87	5.20	6.53	7.96
Fannin	2.73	3.22	3.73	4.24	4.76
Floyd	12.98	13.99	15.03	16.07	17.13
Gilmer	3.14	4.08	5.28	6.80	8.74
Gordon	7.61	9.03	10.66	12.52	14.67
Habersham	5.69	6.51	7.43	8.14	8.75
Lumpkin	2.61	3.24	4.00	4.86	5.78
Murray	4.37	5.63	7.21	9.33	11.63
Pickens	3.72	4.79	6.07	7.29	8.47
Polk	6.75	7.64	8.62	9.68	10.83
Towns	1.55	1.76	1.99	2.23	2.48
Union	2.83	4.14	5.88	7.66	9.69
Walker	7.98	8.70	9.35	9.65	9.71
White	3.05	3.92	4.96	5.96	6.91
Whitfield	21.59	25.15	29.30	34.04	39.58
<b>Grand Total</b>	<b>103.39</b>	<b>122.25</b>	<b>144.15</b>	<b>167.63</b>	<b>193.48</b>

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**CNG2.1 Total Public Supply Water Demand (mgd), AAD**

COUNTY	2010	2020	2030	2040	2050
Catoosa	6.70	8.31	10.21	12.54	15.43
Chattooga	3.83	4.23	4.66	5.09	5.52
Dade	2.43	2.77	3.09	3.25	3.36
Dawson	2.21	3.08	4.14	5.21	6.37
Fannin	1.91	2.27	2.63	3.00	3.39
Floyd	12.91	13.92	14.95	15.99	17.05
Gilmer	1.89	2.47	3.21	4.15	5.36
Gordon	6.60	7.85	9.28	10.93	12.83
Habersham	4.21	4.84	5.55	6.11	6.59
Lumpkin	0.86	1.08	1.35	1.65	1.98
Murray	2.48	3.21	4.14	5.39	6.77
Pickens	3.07	3.97	5.04	6.06	7.05
Polk	6.36	7.21	8.15	9.16	10.25
Towns	1.49	1.69	1.92	2.15	2.38
Union	2.22	3.26	4.65	6.07	7.70
Walker	7.97	8.68	9.33	9.63	9.70
White	2.10	2.71	3.44	4.15	4.83
Whitfield	21.51	25.06	29.21	33.93	39.46
<b>Grand Total</b>	<b>90.76</b>	<b>106.61</b>	<b>124.93</b>	<b>144.46</b>	<b>166.04</b>

**CNG2.2 Public Supply Surface Water Demand (mgd), AAD**

COUNTY	2010	2020	2030	2040	2050
Catoosa	6.70	8.31	10.21	12.54	15.43
Chattooga	3.03	3.35	3.69	4.02	4.37
Dade	2.43	2.77	3.09	3.25	3.36
Dawson	2.21	3.08	4.14	5.21	6.37
Fannin	1.91	2.27	2.63	3.00	3.39
Floyd	12.75	13.75	14.77	15.79	16.84
Gilmer	1.89	2.47	3.21	4.15	5.36
Gordon	4.75	5.65	6.68	7.87	9.24
Habersham	3.77	4.33	4.96	5.46	5.90
Lumpkin	0.63	0.79	0.98	1.20	1.44
Murray	1.96	2.54	3.28	4.27	5.36
Pickens	2.34	3.02	3.83	4.61	5.36
Polk	4.79	5.43	6.14	6.90	7.72
Towns	1.31	1.49	1.69	1.90	2.10
Union	1.34	1.96	2.79	3.65	4.63
Walker	1.34	1.46	1.56	1.61	1.63
White	1.65	2.14	2.71	3.27	3.81
Whitfield	21.51	25.06	29.21	33.93	39.46
<b>Grand Total</b>	<b>76.31</b>	<b>89.84</b>	<b>105.56</b>	<b>122.64</b>	<b>141.76</b>

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**CNG2.3 Public Supply Groundwater Demand (mgd), AAD**

COUNTY	2010	2020	2030	2040	2050
Catoosa	0.00	0.00	0.00	0.00	0.00
Chattooga	0.80	0.88	0.98	1.06	1.15
Dade	0.00	0.00	0.00	0.00	0.00
Dawson	0.00	0.00	0.00	0.00	0.00
Fannin	0.00	0.00	0.00	0.00	0.00
Floyd	0.16	0.17	0.18	0.20	0.21
Gilmer	0.00	0.00	0.00	0.00	0.00
Gordon	1.85	2.20	2.60	3.06	3.59
Habersham	0.45	0.51	0.59	0.65	0.70
Lumpkin	0.24	0.30	0.37	0.45	0.54
Murray	0.52	0.67	0.86	1.12	1.41
Pickens	0.74	0.95	1.21	1.45	1.69
Polk	1.57	1.78	2.01	2.26	2.53
Towns	0.18	0.20	0.23	0.25	0.28
Union	0.89	1.30	1.85	2.42	3.07
Walker	6.63	7.23	7.77	8.01	8.07
White	0.44	0.57	0.73	0.88	1.02
Whitfield	0.00	0.00	0.00	0.00	0.00
<b>Grand Total</b>	<b>14.45</b>	<b>16.77</b>	<b>19.37</b>	<b>21.83</b>	<b>24.28</b>

**CNG2.4 Self Supply Groundwater Demand (mgd), AAD**

COUNTY	2010	2020	2030	2040	2050
Catoosa	0.77	0.94	1.14	1.39	1.68
Chattooga	0.30	0.32	0.35	0.37	0.39
Dade	0.00	0.00	0.00	0.00	0.00
Dawson	0.58	0.79	1.06	1.32	1.59
Fannin	0.82	0.95	1.09	1.23	1.37
Floyd	0.07	0.07	0.07	0.08	0.08
Gilmer	1.25	1.61	2.07	2.65	3.38
Gordon	1.01	1.18	1.38	1.59	1.84
Habersham	1.48	1.67	1.88	2.03	2.16
Lumpkin	1.74	2.16	2.66	3.21	3.80
Murray	1.89	2.42	3.07	3.94	4.86
Pickens	0.64	0.82	1.03	1.23	1.41
Polk	0.39	0.43	0.48	0.52	0.57
Towns	0.06	0.07	0.08	0.08	0.09
Union	0.60	0.88	1.23	1.59	1.99
Walker	0.02	0.02	0.02	0.02	0.02
White	0.95	1.21	1.52	1.81	2.08
Whitfield	0.07	0.08	0.09	0.11	0.12
<b>Grand Total</b>	<b>12.63</b>	<b>15.64</b>	<b>19.22</b>	<b>23.17</b>	<b>27.44</b>

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## Draft March 2010 Municipal Wastewater Demand Forecasts for the Coosa North Georgia (CNG) Water Planning Region

CNG3. Total Municipal Wastewater Produced (mgd), max monthly demand

COUNTY	2010	2020	2030	2040	2050
Catoosa	6.20	7.69	9.43	11.57	14.22
Chattooga	3.50	3.86	4.25	4.63	5.02
Dade	2.26	2.58	2.87	3.03	3.13
Dawson	2.69	3.74	5.02	6.31	7.70
Fannin	2.48	2.93	3.39	3.86	4.33
Floyd	12.02	12.95	13.91	14.88	15.86
Gilmer	2.70	3.51	4.54	5.85	7.52
Gordon	7.50	8.89	10.49	12.33	14.45
Habersham	5.55	6.35	7.25	7.95	8.55
Lumpkin	2.29	2.85	3.52	4.27	5.08
Murray	3.45	4.45	5.69	7.37	9.19
Pickens	3.44	4.43	5.62	6.75	7.84
Polk	6.34	7.17	8.09	9.09	10.16
Towns	1.40	1.58	1.80	2.01	2.23
Union	2.52	3.69	5.24	6.83	8.65
Walker	7.21	7.86	8.44	8.71	8.77
White	2.70	3.48	4.40	5.29	6.13
Whitfield	19.70	22.95	26.74	31.07	36.13
<b>Grand Total</b>	<b>93.94</b>	<b>110.96</b>	<b>130.70</b>	<b>151.78</b>	<b>174.95</b>

CNG3.1 Municipal Septic Wastewater (mgd), max month

COUNTY	2010	2020	2030	2040	2050
Catoosa	5.88	7.28	8.93	10.96	13.47
Chattooga	1.57	1.73	1.90	2.06	2.23
Dade	1.10	1.26	1.40	1.48	1.53
Dawson	0.66	0.91	1.21	1.52	1.84
Fannin	0.99	1.16	1.33	1.51	1.69
Floyd	3.76	4.05	4.35	4.65	4.96
Gilmer	2.51	3.26	4.22	5.42	6.98
Gordon	5.92	7.01	8.27	9.71	11.38
Habersham	4.03	4.60	5.25	5.74	6.16
Lumpkin	1.86	2.31	2.84	3.44	4.09
Murray	2.93	3.78	4.83	6.25	7.79
Pickens	1.76	2.27	2.87	3.45	4.00
Polk	2.77	3.13	3.52	3.95	4.41
Towns	0.92	1.04	1.18	1.33	1.47
Union	1.81	2.65	3.76	4.90	6.19
Walker	4.67	5.08	5.46	5.64	5.68
White	2.03	2.61	3.30	3.96	4.59
Whitfield	11.58	13.49	15.72	18.26	21.24
<b>Grand Total</b>	<b>56.74</b>	<b>67.63</b>	<b>80.36</b>	<b>94.23</b>	<b>109.66</b>

CNG3.2 Municipal Septic Wastewater (% of wastewater flow)

COUNTY	2010	2020	2030	2040	2050
Catoosa	95%	95%	95%	95%	95%
Chattooga	45%	45%	45%	45%	44%
Dade	49%	49%	49%	49%	49%
Dawson	24%	24%	24%	24%	24%
Fannin	40%	40%	39%	39%	39%
Floyd	31%	31%	31%	31%	31%
Gilmer	93%	93%	93%	93%	93%
Gordon	79%	79%	79%	79%	79%
Habersham	73%	72%	72%	72%	72%
Lumpkin	81%	81%	81%	81%	80%
Murray	85%	85%	85%	85%	85%
Pickens	51%	51%	51%	51%	51%
Polk	44%	44%	44%	43%	43%
Towns	66%	66%	66%	66%	66%
Union	72%	72%	72%	72%	72%
Walker	65%	65%	65%	65%	65%
White	75%	75%	75%	75%	75%
Whitfield	59%	59%	59%	59%	59%
<b>Grand Total</b>	<b>60%</b>	<b>61%</b>	<b>61%</b>	<b>62%</b>	<b>63%</b>

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CNG3.3 Municipal Centralized Wastewater (mgd), max month

COUNTY	2010	2020	2030	2040	2050
Catoosa	0.32	0.40	0.49	0.61	0.75
Chattooga	1.93	2.13	2.35	2.57	2.79
Dade	1.16	1.32	1.47	1.55	1.60
Dawson	2.03	2.83	3.81	4.80	5.86
Fannin	1.49	1.77	2.06	2.35	2.65
Floyd	8.26	8.90	9.56	10.23	10.90
Gilmer	0.19	0.25	0.33	0.42	0.55
Gordon	1.58	1.88	2.22	2.62	3.07
Habersham	1.52	1.75	2.00	2.21	2.38
Lumpkin	0.43	0.54	0.68	0.83	0.99
Murray	0.51	0.67	0.86	1.12	1.40
Pickens	1.67	2.16	2.74	3.30	3.84
Polk	3.57	4.05	4.57	5.14	5.75
Towns	0.48	0.54	0.61	0.69	0.76
Union	0.71	1.04	1.48	1.94	2.46
Walker	2.54	2.77	2.98	3.07	3.10
White	0.67	0.86	1.10	1.33	1.54
Whitfield	8.12	9.46	11.02	12.81	14.89
<b>Grand Total</b>	<b>37.20</b>	<b>43.33</b>	<b>50.34</b>	<b>57.55</b>	<b>65.29</b>

CNG3.4 Municipal Centralized Wastewater (% of wastewater flow)

COUNTY	2010	2020	2030	2040	2050
Catoosa	5%	5%	5%	5%	5%
Chattooga	55%	55%	55%	55%	56%
Dade	51%	51%	51%	51%	51%
Dawson	76%	76%	76%	76%	76%
Fannin	60%	60%	61%	61%	61%
Floyd	69%	69%	69%	69%	69%
Gilmer	7%	7%	7%	7%	7%
Gordon	21%	21%	21%	21%	21%
Habersham	27%	28%	28%	28%	28%
Lumpkin	19%	19%	19%	19%	20%
Murray	15%	15%	15%	15%	15%
Pickens	49%	49%	49%	49%	49%
Polk	56%	56%	56%	57%	57%
Towns	34%	34%	34%	34%	34%
Union	28%	28%	28%	28%	28%
Walker	35%	35%	35%	35%	35%
White	25%	25%	25%	25%	25%
Whitfield	41%	41%	41%	41%	41%
<b>Grand Total</b>	<b>40%</b>	<b>39%</b>	<b>39%</b>	<b>38%</b>	<b>37%</b>

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