

## Draft March 2010 Municipal Water Demand Forecasts for the Coastal Georgia Water Planning Region

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### CG1. Municipal Per Capita Water Use Rate

COUNTY	Public Supplied <sup>1</sup>	Base Year	Self Supplied <sup>2</sup>
Bryan	110	2005	100
Bulloch	108	2005	100
Camden	130	2005	100
Chatham	136	2005	100
Effingham	119	2005	100
Glynn	157	2005	100
Liberty	109	2000	100
Long	116	2005	100
McIntosh	136	2005	100

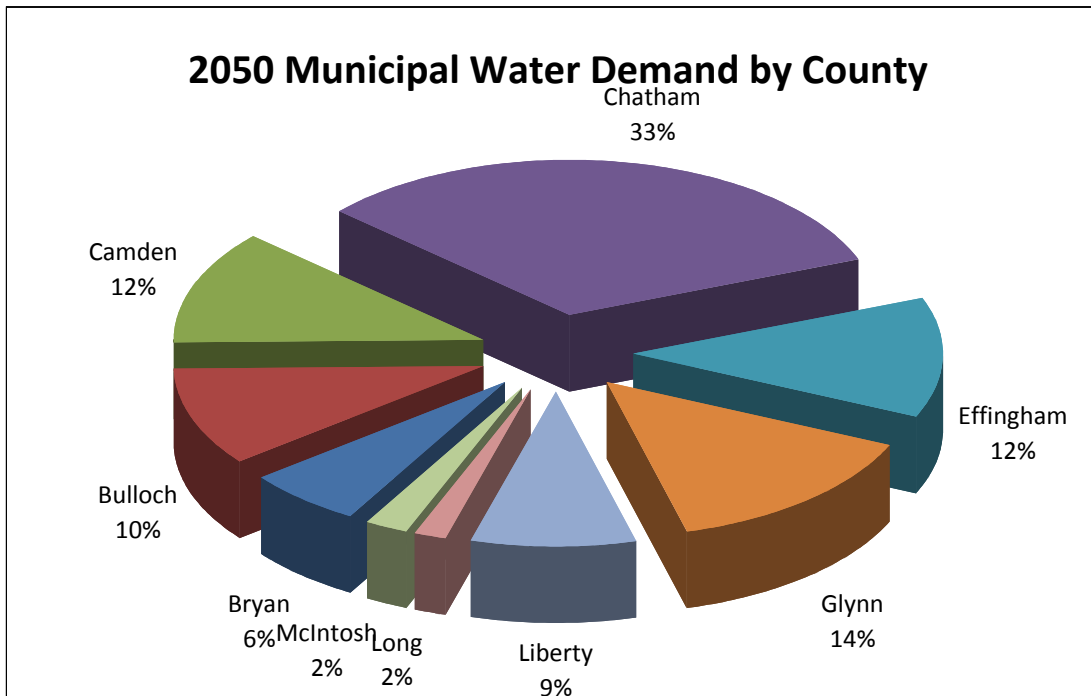
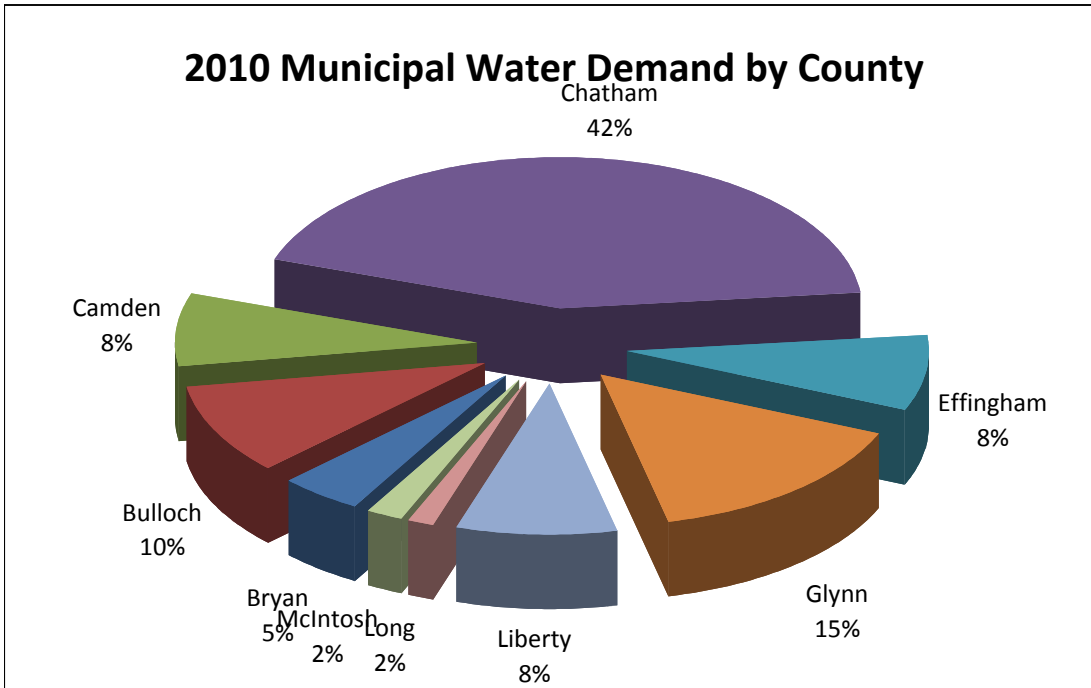
<sup>1</sup> Based on "Water Use in Georgia 2005" (USGS) or input from local water providers

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

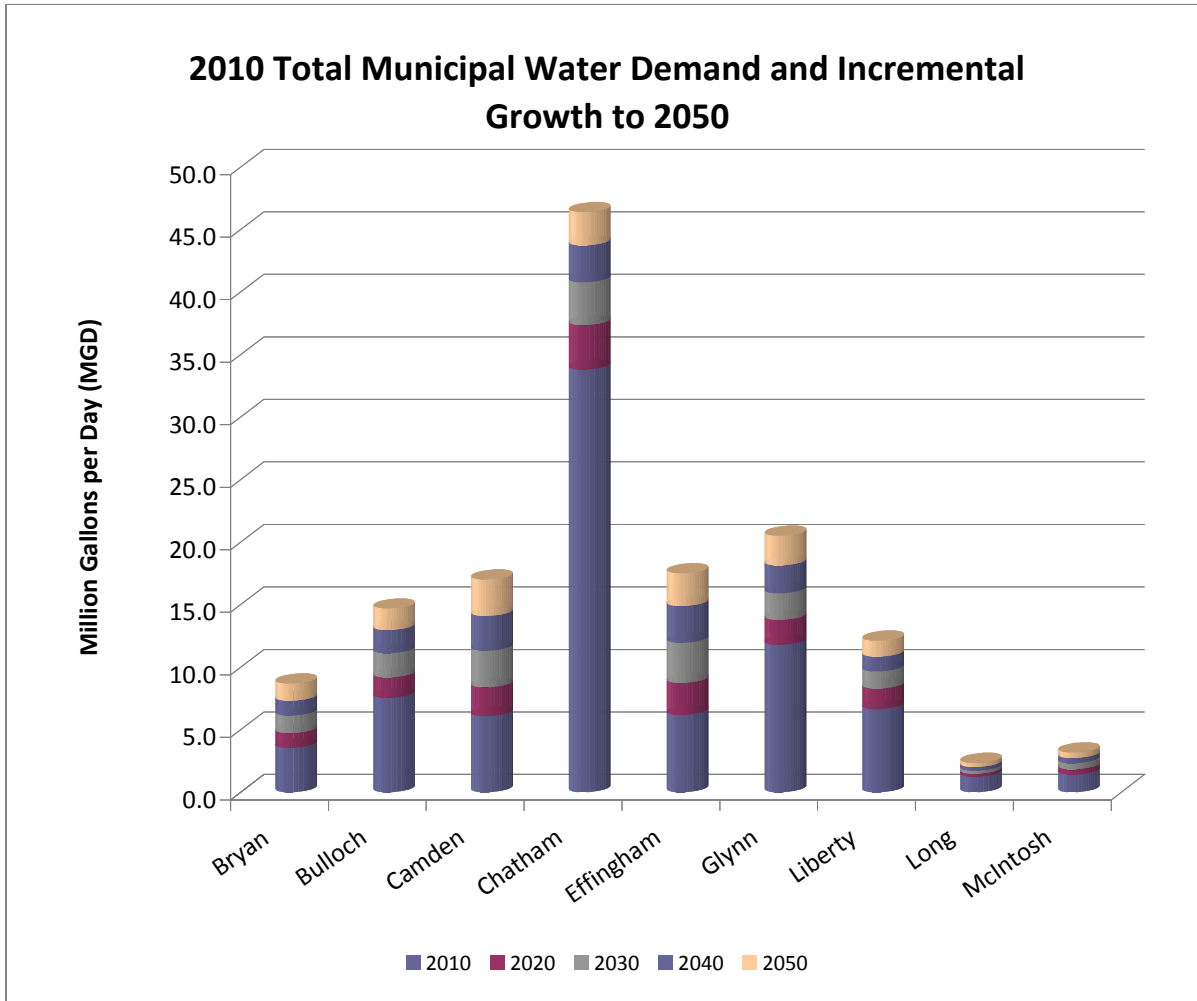
### CG2. Total Publicly-Supplied and Self-Supplied Domestic Water Demand (mgd), Average Annual Demand (AAD)

COUNTY	2010	2020	2030	2040	2050
Bryan	3.55	4.74	6.13	7.32	8.70
Bulloch	7.53	9.17	11.12	12.97	14.70
Camden	6.09	8.38	11.32	14.10	17.02
Chatham	33.80	37.37	40.78	43.72	46.40
Effingham	6.20	8.74	11.96	14.90	17.52
Glynn	11.79	13.78	15.91	18.14	20.52
Liberty	6.64	8.28	9.68	10.84	12.13
Long	1.25	1.48	1.73	2.03	2.36
McIntosh	1.42	1.85	2.33	2.75	3.19
<b>Grand Total</b>	<b>78.27</b>	<b>93.79</b>	<b>110.97</b>	<b>126.76</b>	<b>142.52</b>

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4/20/2010



**CG2.1 Total Publicly- Supplied Water Demand (mgd), AAD**

COUNTY	2010	2020	2030	2040	2050
Bryan	2.35	3.14	4.06	4.85	5.77
Bulloch	6.04	7.35	8.92	10.40	11.79
Camden	4.48	6.17	8.35	10.41	12.58
Chatham	30.59	33.83	36.95	39.65	42.11
Effingham	3.67	5.19	7.11	8.86	10.43
Glynn	10.78	12.61	14.57	16.62	18.82
Liberty	5.65	7.05	8.24	9.23	10.33
Long	0.42	0.50	0.58	0.68	0.79
McIntosh	0.80	1.04	1.32	1.56	1.81
<b>Grand Total</b>	<b>64.76</b>	<b>76.88</b>	<b>90.09</b>	<b>102.26</b>	<b>114.44</b>

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**CG2.2 Public Supply Surface Water Demand (mgd), AAD**

COUNTY	2010	2020	2030	2040	2050
Bryan	0.00	0.00	0.00	0.00	0.00
Bulloch	0.00	0.00	0.00	0.00	0.00
Camden	0.00	0.00	0.00	0.00	0.00
Chatham	4.26	4.71	5.14	5.52	5.86
Effingham	1.84	2.60	3.56	4.44	5.23
Glynn	0.00	0.00	0.00	0.00	0.00
Liberty	0.00	0.00	0.00	0.00	0.00
Long	0.00	0.00	0.00	0.00	0.00
McIntosh	0.00	0.00	0.00	0.00	0.00
<b>Grand Total</b>	<b>6.10</b>	<b>7.31</b>	<b>8.70</b>	<b>9.96</b>	<b>11.09</b>

**CG2.2.1 Public Supply Water Demand Percent Surface Water**

COUNTY	2010	2020	2030	2040	2050
Bryan	0%	0%	0%	0%	0%
Bulloch	0%	0%	0%	0%	0%
Camden	0%	0%	0%	0%	0%
Chatham	14%	14%	14%	14%	14%
Effingham	50%	50%	50%	50%	50%
Glynn	0%	0%	0%	0%	0%
Liberty	0%	0%	0%	0%	0%
Long	0%	0%	0%	0%	0%
McIntosh	0%	0%	0%	0%	0%
<b>Grand Total</b>	<b>9%</b>	<b>10%</b>	<b>10%</b>	<b>10%</b>	<b>10%</b>

**CG2.3 Public Supply Groundwater Demand (mgd), AAD**

COUNTY	2010	2020	2030	2040	2050
Bryan	2.35	3.14	4.06	4.85	5.77
Bulloch	6.04	7.35	8.92	10.40	11.79
Camden	4.48	6.17	8.35	10.41	12.58
Chatham	26.33	29.13	31.81	34.13	36.25
Effingham	1.83	2.59	3.55	4.42	5.21
Glynn	10.78	12.61	14.57	16.62	18.82
Liberty	5.65	7.05	8.24	9.23	10.33
Long	0.42	0.50	0.58	0.68	0.79
McIntosh	0.80	1.04	1.32	1.56	1.81
<b>Grand Total</b>	<b>58.67</b>	<b>69.57</b>	<b>81.39</b>	<b>92.30</b>	<b>103.35</b>

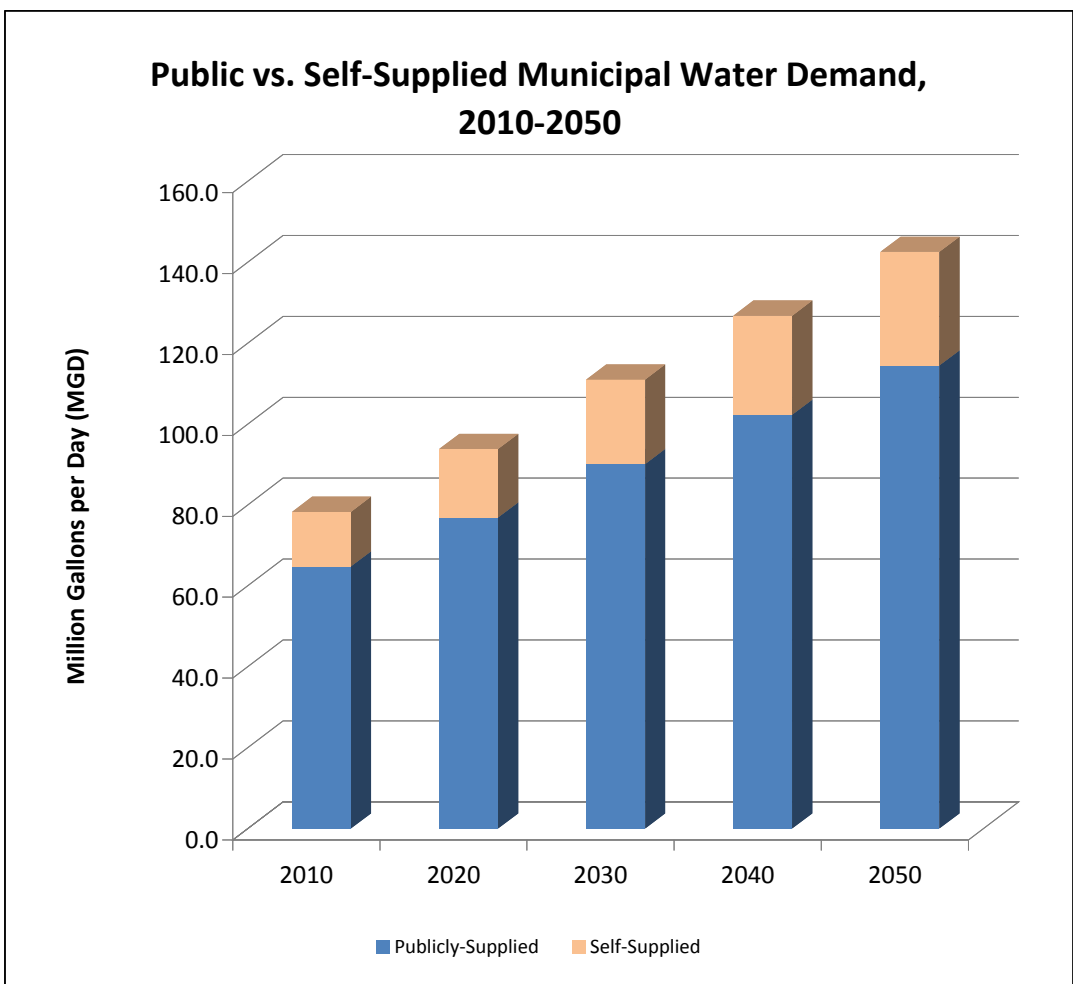
**CG2.3.1 Public Supply Water Demand Percent Groundwater**

COUNTY	2010	2020	2030	2040	2050
Bryan	100%	100%	100%	100%	100%
Bulloch	100%	100%	100%	100%	100%
Camden	100%	100%	100%	100%	100%
Chatham	86%	86%	86%	86%	86%
Effingham	50%	50%	50%	50%	50%
Glynn	100%	100%	100%	100%	100%
Liberty	100%	100%	100%	100%	100%
Long	100%	100%	100%	100%	100%
McIntosh	100%	100%	100%	100%	100%
<b>Grand Total</b>	<b>91%</b>	<b>90%</b>	<b>90%</b>	<b>90%</b>	<b>90%</b>

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**CG2.4 Self Supply Groundwater Demand (mgd), AAD**

COUNTY	2010	2020	2030	2040	2050
Bryan	1.20	1.60	2.07	2.46	2.93
Bulloch	1.50	1.82	2.20	2.57	2.90
Camden	1.61	2.21	2.97	3.69	4.44
Chatham	3.22	3.53	3.83	4.07	4.29
Effingham	2.52	3.56	4.86	6.04	7.09
Glynn	1.01	1.18	1.35	1.52	1.70
Liberty	0.99	1.23	1.44	1.61	1.80
Long	0.83	0.98	1.15	1.34	1.56
McIntosh	0.62	0.81	1.01	1.19	1.38
<b>Grand Total</b>	<b>13.50</b>	<b>16.92</b>	<b>20.88</b>	<b>24.50</b>	<b>28.09</b>



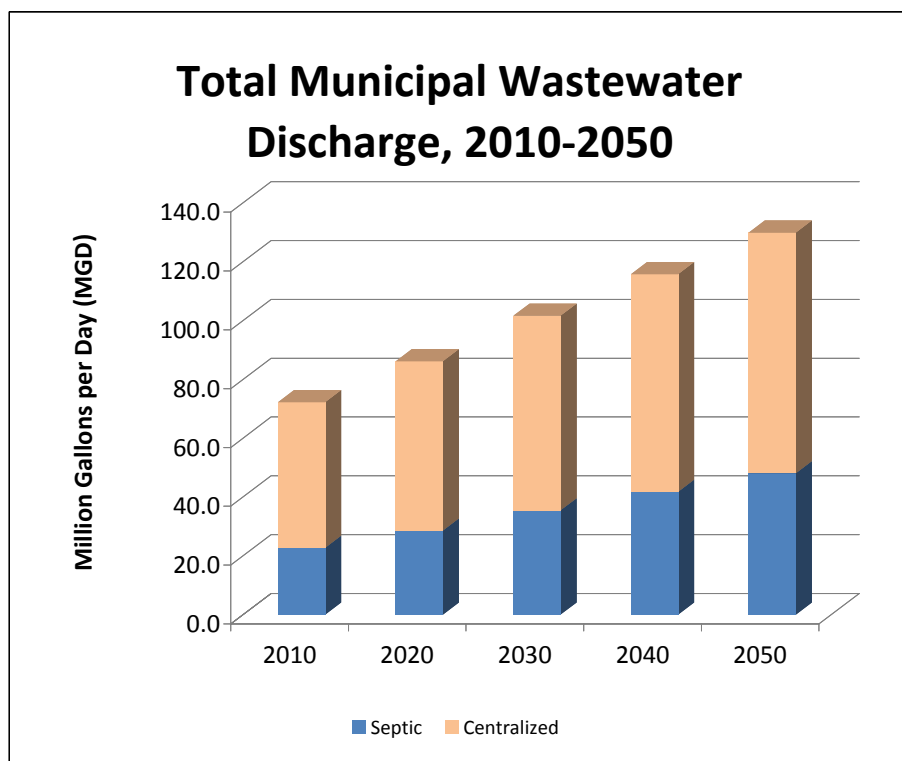
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## Draft March 2010 Municipal Wastewater Demand Forecasts for the Coastal Georgia Water Planning Region

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**CG3. Total Municipal Wastewater Produced (mgd), max monthly demand**

COUNTY	2010	2020	2030	2040	2050
Bryan	2.85	3.81	4.93	5.88	6.99
Bulloch	6.15	7.48	9.07	10.58	11.99
Camden	5.88	8.09	10.93	13.62	16.44
Chatham	32.69	36.14	39.45	42.30	44.90
Effingham	4.87	6.87	9.41	11.71	13.77
Glynn	10.85	12.68	14.65	16.70	18.89
Liberty	6.62	8.25	9.64	10.80	12.08
Long	1.08	1.29	1.51	1.76	2.05
McIntosh	1.25	1.63	2.06	2.42	2.81
<b>Grand Total</b>	<b>72.24</b>	<b>86.25</b>	<b>101.64</b>	<b>115.78</b>	<b>129.93</b>



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**CG3.1 Municipal Septic Wastewater (mgd), max month**

COUNTY	2010	2020	2030	2040	2050
Bryan	2.13	2.84	3.68	4.39	5.21
Bulloch	4.07	4.96	6.01	7.00	7.94
Camden	1.66	2.28	3.07	3.82	4.60
Chatham	2.86	3.14	3.41	3.63	3.83
Effingham	4.27	6.02	8.24	10.26	12.06
Glynn	3.76	4.39	5.06	5.76	6.50
Liberty	1.98	2.47	2.88	3.23	3.61
Long	0.94	1.12	1.31	1.53	1.78
McIntosh	1.14	1.49	1.88	2.21	2.57
<b>Grand Total</b>	<b>22.81</b>	<b>28.70</b>	<b>35.53</b>	<b>41.82</b>	<b>48.09</b>

**CG3.2 Municipal Septic Wastewater (% of wastewater flow)**

COUNTY	2010	2020	2030	2040	2050
Bryan	75%	75%	75%	75%	75%
Bulloch	66%	66%	66%	66%	66%
Camden	28%	28%	28%	28%	28%
Chatham	9%	9%	9%	9%	9%
Effingham	88%	88%	88%	88%	88%
Glynn	35%	35%	35%	34%	34%
Liberty	30%	30%	30%	30%	30%
Long	87%	87%	87%	87%	87%
McIntosh	91%	91%	91%	91%	91%
<b>Grand Total</b>	<b>32%</b>	<b>33%</b>	<b>35%</b>	<b>36%</b>	<b>37%</b>

**CG3.3 Municipal Centralized Wastewater (mgd), max month**

COUNTY	2010	2020	2030	2040	2050
Bryan	0.72	0.97	1.25	1.50	1.78
Bulloch	2.07	2.53	3.06	3.57	4.05
Camden	4.22	5.81	7.86	9.80	11.85
Chatham	29.83	33.00	36.04	38.67	41.07
Effingham	0.60	0.85	1.17	1.46	1.71
Glynn	7.09	8.30	9.59	10.94	12.38
Liberty	4.64	5.79	6.76	7.58	8.48
Long	0.14	0.17	0.20	0.23	0.27
McIntosh	0.11	0.14	0.18	0.21	0.25
<b>Grand Total</b>	<b>49.43</b>	<b>57.55</b>	<b>66.11</b>	<b>73.96</b>	<b>81.84</b>

**CG3.4 Municipal Centralized Wastewater (% of wastewater flow)**

COUNTY	2010	2020	2030	2040	2050
Bryan	25%	25%	25%	25%	25%
Bulloch	34%	34%	34%	34%	34%
Camden	72%	72%	72%	72%	72%
Chatham	91%	91%	91%	91%	91%
Effingham	12%	12%	12%	12%	12%
Glynn	65%	65%	65%	66%	66%
Liberty	70%	70%	70%	70%	70%
Long	13%	13%	13%	13%	13%
McIntosh	9%	9%	9%	9%	9%
<b>Grand Total</b>	<b>68%</b>	<b>67%</b>	<b>65%</b>	<b>64%</b>	<b>63%</b>

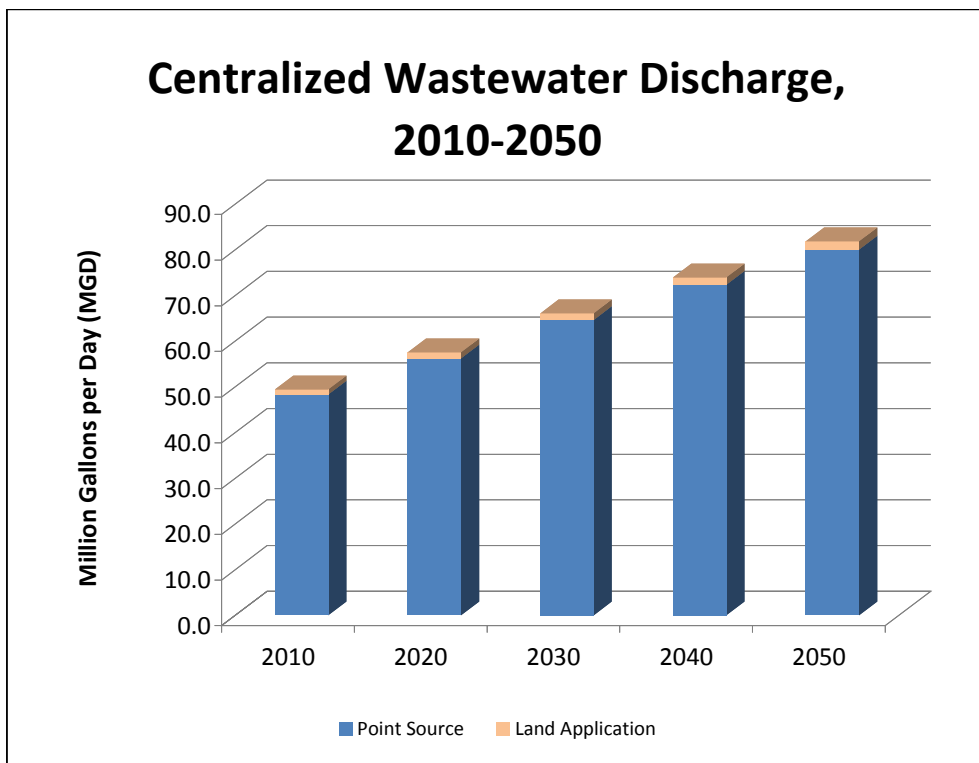
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**CG3.5 Municipal Centralized Wastewater, Point Source Discharge**

COUNTY	2010	2020	2030	2040	2050
Bryan	0.72	0.97	1.25	1.50	1.78
Bulloch	2.07	2.53	3.06	3.57	4.05
Camden	4.22	5.81	7.86	9.80	11.85
Chatham	29.12	32.21	35.18	37.74	40.09
Effingham	0.54	0.77	1.05	1.31	1.54
Glynn	6.99	8.18	9.45	10.78	12.20
Liberty	4.38	5.47	6.39	7.16	8.01
Long	0.14	0.17	0.20	0.23	0.27
McIntosh	0.11	0.14	0.18	0.21	0.25
<b>Grand Total</b>	<b>48.30</b>	<b>56.24</b>	<b>64.62</b>	<b>72.31</b>	<b>80.04</b>

**CG3.6 Municipal Centralized Wastewater, Land Application Discharge**

COUNTY	2010	2020	2030	2040	2050
Bryan	0.00	0.00	0.00	0.00	0.00
Bulloch	0.00	0.00	0.00	0.00	0.00
Camden	0.00	0.00	0.00	0.00	0.00
Chatham	0.71	0.79	0.86	0.92	0.98
Effingham	0.06	0.09	0.12	0.15	0.18
Glynn	0.10	0.12	0.14	0.16	0.18
Liberty	0.25	0.32	0.37	0.41	0.46
Long	0.00	0.00	0.00	0.00	0.00
McIntosh	0.00	0.00	0.00	0.00	0.00
<b>Grand Total</b>	<b>1.13</b>	<b>1.31</b>	<b>1.49</b>	<b>1.65</b>	<b>1.80</b>



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4/20/2010