

## Draft March 2010 Municipal Water Demand Forecasts for the Altamaha 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.

### ALT1. Municipal Per Capita Water Use Rate

COUNTY	Public Supplied <sup>1</sup>	Base Year	Self Supplied <sup>2</sup>
Appling	140	2005	75
Bleckley	115	2005	75
Candler	105	2005	75
Dodge	174	2005	75
Emanuel	169	2005	75
Evans	95	2005	75
Jeff Davis	195	2005	75
Johnson	121	2005	75
Montgomery	112	2005	75
Tattnall	121	2005	75
Telfair	140	2005	75
Toombs	147	2005	75
Treutlen	128	2005	75
Wayne	171	2005	75
Wheeler	141	2005	75
Wilcox	139	2005	75

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

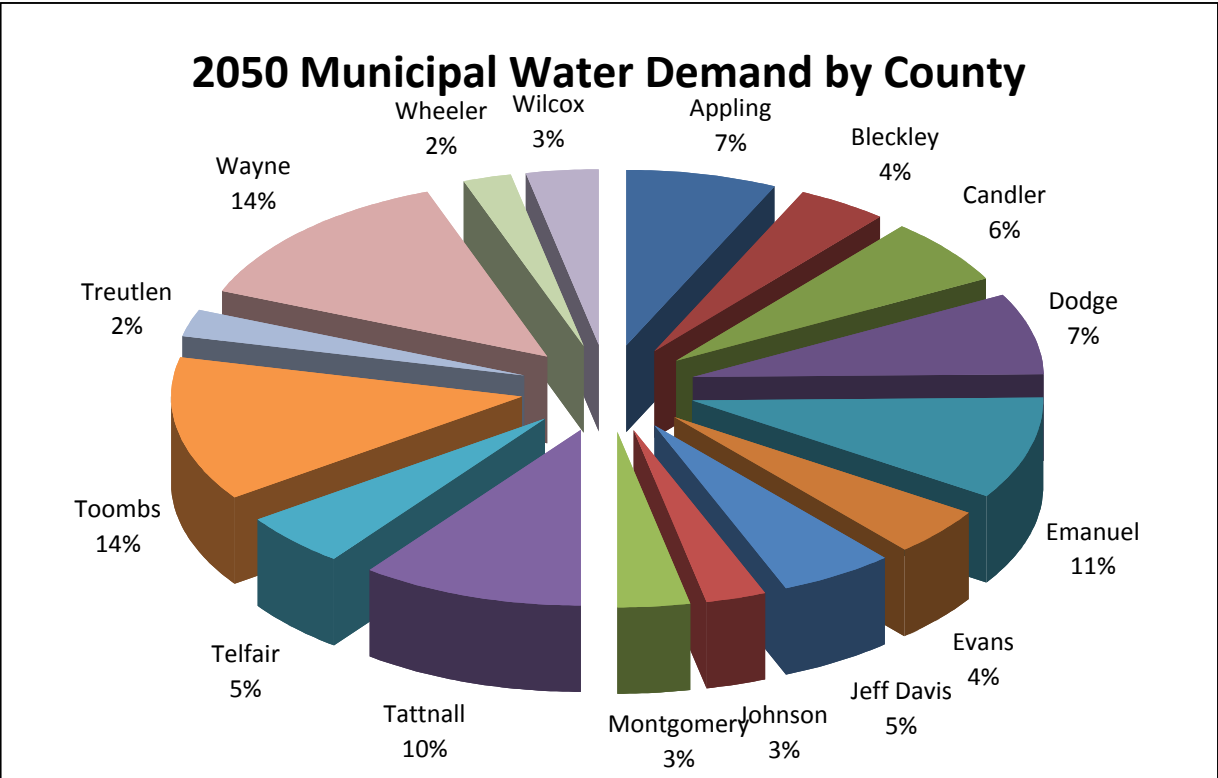
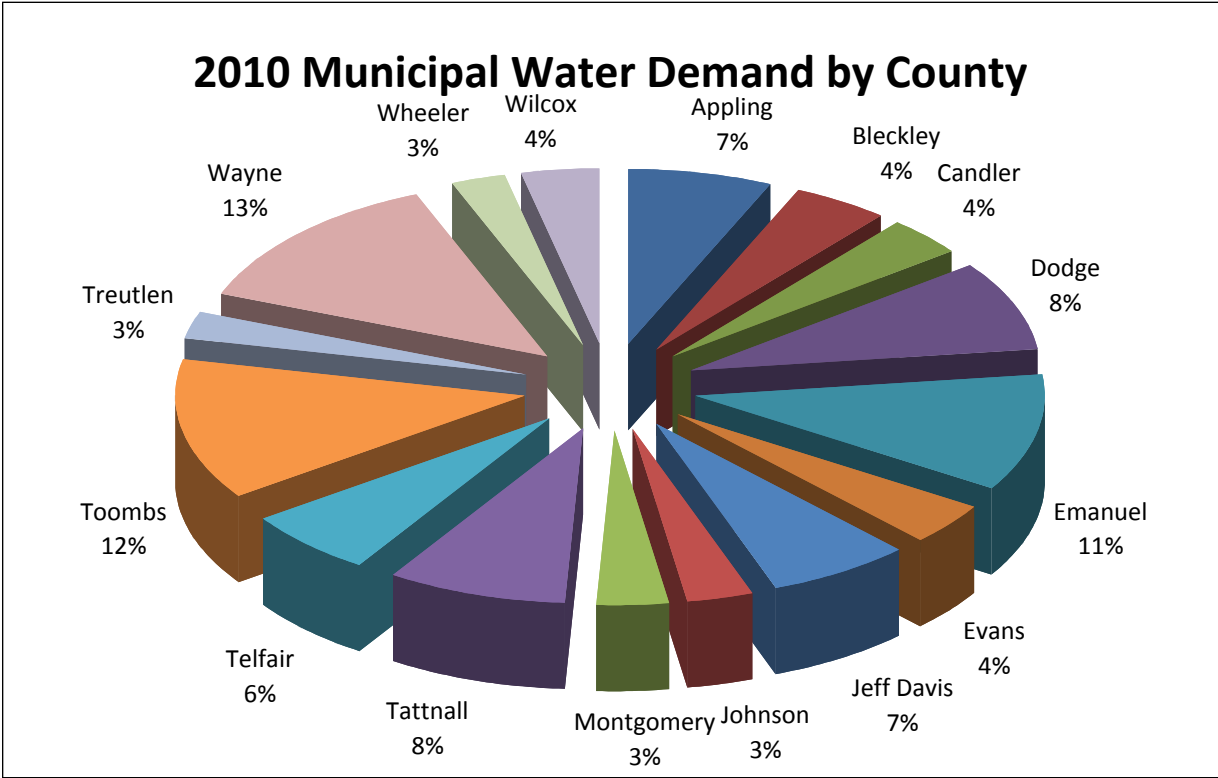
<sup>2</sup> Based on data from "Water Use in Georgia 2005" for residential wells or input from local water providers

### ALT2. Total Publicly-Supplied and Self-Supplied Domestic Water Demand (mgd), Average Annual Demand (AAD)

COUNTY	2010	2020	2030	2040	2050
Appling	1.82	2.00	2.16	2.31	2.46
Bleckley	1.21	1.31	1.38	1.45	1.50
Candler	0.97	1.21	1.50	1.85	2.26
Dodge	2.29	2.44	2.57	2.59	2.60
Emanuel	2.92	3.03	3.18	3.32	3.48
Evans	1.03	1.16	1.29	1.41	1.51
Jeff Davis	1.81	1.87	1.91	1.94	1.95
Johnson	0.86	0.89	0.91	0.92	0.93
Montgomery	0.90	1.01	1.11	1.16	1.20
Tattnall	2.26	2.60	2.96	3.32	3.70
Telfair	1.62	1.68	1.73	1.77	1.81
Toombs	3.55	3.87	4.11	4.42	4.82
Treutlen	0.72	0.77	0.83	0.84	0.82
Wayne	3.52	3.88	4.21	4.52	4.81
Wheeler	0.68	0.74	0.79	0.83	0.86
Wilcox	0.99	1.05	1.10	1.13	1.15
<b>Grand Total</b>	<b>27.14</b>	<b>29.49</b>	<b>31.74</b>	<b>33.78</b>	<b>35.86</b>

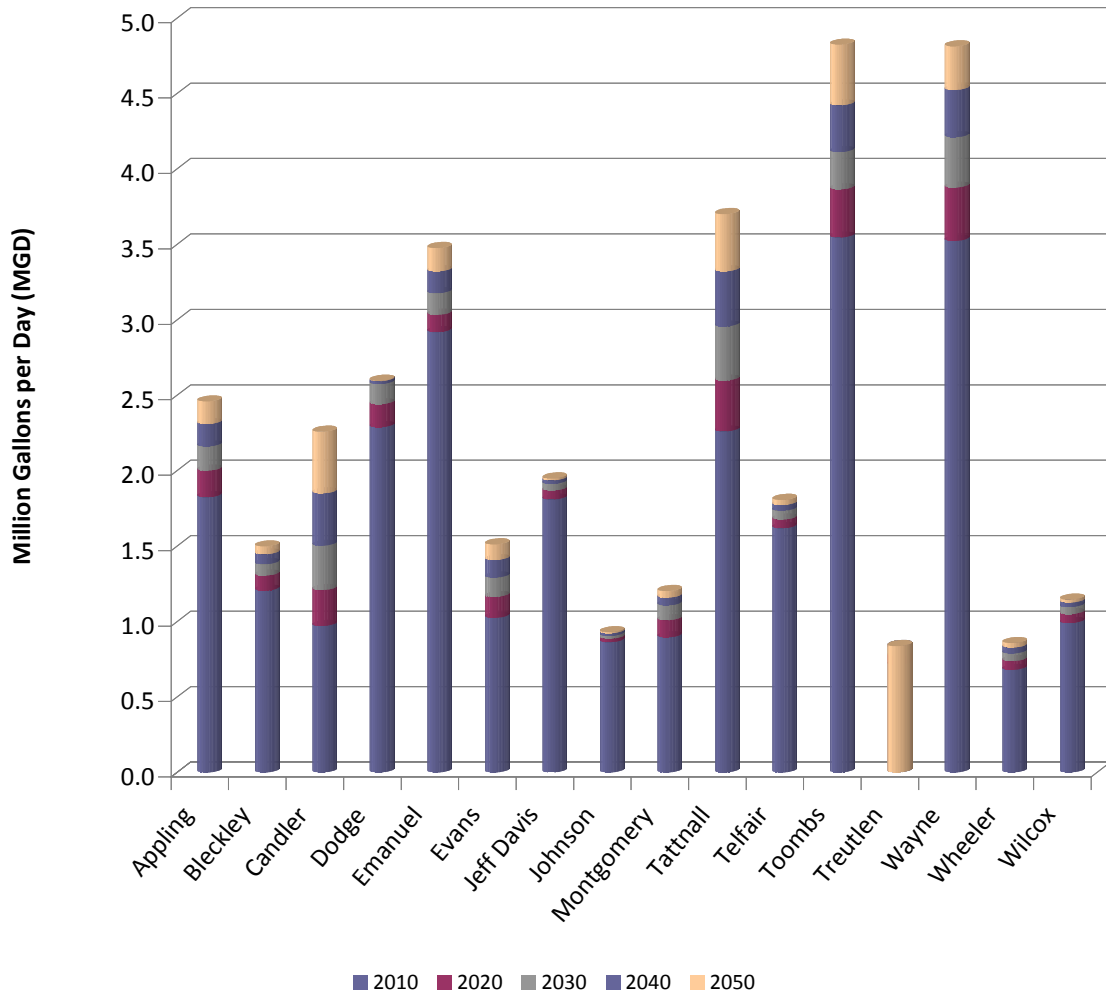
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## 2010 Total Municipal Water Demand and Incremental Growth to 2050



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**ALT2.1 Total Publicly- Supplied Water Demand (mgd), AAD**

<b>COUNTY</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>
Appling	0.96	1.06	1.15	1.24	1.33
Bleckley	0.66	0.72	0.77	0.81	0.85
Candler	0.49	0.62	0.77	0.96	1.17
Dodge	1.33	1.43	1.52	1.55	1.57
Emanuel	2.12	2.22	2.34	2.46	2.60
Evans	0.59	0.67	0.75	0.82	0.88
Jeff Davis	1.27	1.32	1.36	1.39	1.41
Johnson	0.36	0.37	0.38	0.40	0.40
Montgomery	0.63	0.71	0.78	0.82	0.85
Tattnall	1.17	1.35	1.55	1.76	1.97
Telfair	1.30	1.35	1.40	1.44	1.48
Toombs	2.83	3.09	3.30	3.56	3.91
Treutlen	0.43	0.46	0.50	0.51	0.50
Wayne	2.23	2.47	2.70	2.93	3.14
Wheeler	0.33	0.36	0.38	0.41	0.43
Wilcox	0.70	0.75	0.79	0.81	0.83
<b>Grand Total</b>	<b>17.39</b>	<b>18.95</b>	<b>20.46</b>	<b>21.86</b>	<b>23.32</b>

**ALT2.2 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>
Appling	0.00	0.00	0.00	0.00	0.00
Bleckley	0.00	0.00	0.00	0.00	0.00
Candler	0.00	0.00	0.00	0.00	0.00
Dodge	0.00	0.00	0.00	0.00	0.00
Emanuel	0.00	0.00	0.00	0.00	0.00
Evans	0.00	0.00	0.00	0.00	0.00
Jeff Davis	0.00	0.00	0.00	0.00	0.00
Johnson	0.00	0.00	0.00	0.00	0.00
Montgomery	0.00	0.00	0.00	0.00	0.00
Tattnall	0.00	0.00	0.00	0.00	0.00
Telfair	0.00	0.00	0.00	0.00	0.00
Toombs	0.00	0.00	0.00	0.00	0.00
Treutlen	0.00	0.00	0.00	0.00	0.00
Wayne	0.00	0.00	0.00	0.00	0.00
Wheeler	0.00	0.00	0.00	0.00	0.00
Wilcox	0.00	0.00	0.00	0.00	0.00
<b>Grand Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

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**ALT2.2.1 Public Supply Water Demand Percent Surface Water**

COUNTY	2010	2020	2030	2040	2050
Appling	0%	0%	0%	0%	0%
Bleckley	0%	0%	0%	0%	0%
Candler	0%	0%	0%	0%	0%
Dodge	0%	0%	0%	0%	0%
Emanuel	0%	0%	0%	0%	0%
Evans	0%	0%	0%	0%	0%
Jeff Davis	0%	0%	0%	0%	0%
Johnson	0%	0%	0%	0%	0%
Montgomery	0%	0%	0%	0%	0%
Tattnall	0%	0%	0%	0%	0%
Telfair	0%	0%	0%	0%	0%
Toombs	0%	0%	0%	0%	0%
Treutlen	0%	0%	0%	0%	0%
Wayne	0%	0%	0%	0%	0%
Wheeler	0%	0%	0%	0%	0%
Wilcox	0%	0%	0%	0%	0%
<b>Grand Total</b>	<b>0%</b>	<b>0%</b>	<b>0%</b>	<b>0%</b>	<b>0%</b>

**ALT2.3 Public Supply Groundwater Demand (mgd), AAD**

COUNTY	2010	2020	2030	2040	2050
Appling	0.96	1.06	1.15	1.24	1.33
Bleckley	0.66	0.72	0.77	0.81	0.85
Candler	0.49	0.62	0.77	0.96	1.17
Dodge	1.33	1.43	1.52	1.55	1.57
Emanuel	2.12	2.22	2.34	2.46	2.60
Evans	0.59	0.67	0.75	0.82	0.88
Jeff Davis	1.27	1.32	1.36	1.39	1.41
Johnson	0.36	0.37	0.38	0.40	0.40
Montgomery	0.63	0.71	0.78	0.82	0.85
Tattnall	1.17	1.35	1.55	1.76	1.97
Telfair	1.30	1.35	1.40	1.44	1.48
Toombs	2.83	3.09	3.30	3.56	3.91
Treutlen	0.43	0.46	0.50	0.51	0.50
Wayne	2.23	2.47	2.70	2.93	3.14
Wheeler	0.33	0.36	0.38	0.41	0.43
Wilcox	0.70	0.75	0.79	0.81	0.83
<b>Grand Total</b>	<b>17.39</b>	<b>18.95</b>	<b>20.46</b>	<b>21.86</b>	<b>23.32</b>

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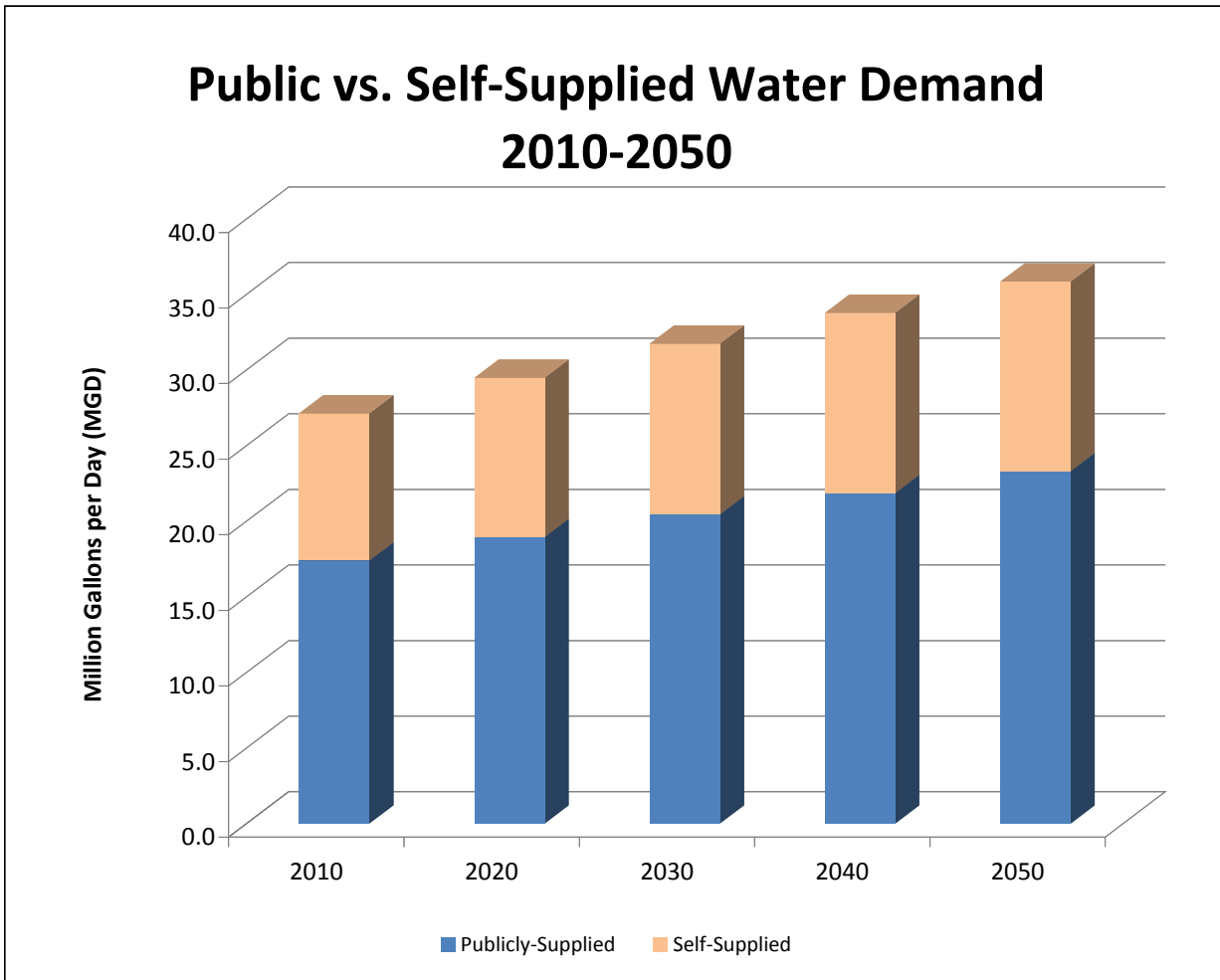
**ALT2.3.1 Public Supply Water Demand Percent Groundwater**

COUNTY	2010	2020	2030	2040	2050
Appling	100%	100%	100%	100%	100%
Bleckley	100%	100%	100%	100%	100%
Candler	100%	100%	100%	100%	100%
Dodge	100%	100%	100%	100%	100%
Emanuel	100%	100%	100%	100%	100%
Evans	100%	100%	100%	100%	100%
Jeff Davis	100%	100%	100%	100%	100%
Johnson	100%	100%	100%	100%	100%
Montgomery	100%	100%	100%	100%	100%
Tattnall	100%	100%	100%	100%	100%
Telfair	100%	100%	100%	100%	100%
Toombs	100%	100%	100%	100%	100%
Treutlen	100%	100%	100%	100%	100%
Wayne	100%	100%	100%	100%	100%
Wheeler	100%	100%	100%	100%	100%
Wilcox	100%	100%	100%	100%	100%
<b>Grand Total</b>	100%	100%	100%	100%	100%

**ALT2.4 Self Supply Groundwater Demand (mgd), AAD**

COUNTY	2010	2020	2030	2040	2050
Appling	0.87	0.95	1.01	1.07	1.13
Bleckley	0.54	0.58	0.61	0.64	0.65
Candler	0.48	0.59	0.73	0.89	1.09
Dodge	0.96	1.01	1.05	1.04	1.03
Emanuel	0.79	0.81	0.84	0.86	0.88
Evans	0.44	0.49	0.55	0.59	0.63
Jeff Davis	0.54	0.55	0.55	0.55	0.54
Johnson	0.50	0.51	0.52	0.53	0.53
Montgomery	0.27	0.30	0.33	0.34	0.35
Tattnall	1.09	1.24	1.40	1.56	1.73
Telfair	0.32	0.32	0.33	0.33	0.33
Toombs	0.72	0.77	0.81	0.86	0.92
Treutlen	0.29	0.31	0.33	0.33	0.32
Wayne	1.29	1.41	1.51	1.60	1.67
Wheeler	0.35	0.38	0.40	0.42	0.43
Wilcox	0.29	0.30	0.31	0.31	0.31
<b>Grand Total</b>	<b>9.75</b>	<b>10.54</b>	<b>11.28</b>	<b>11.92</b>	<b>12.54</b>

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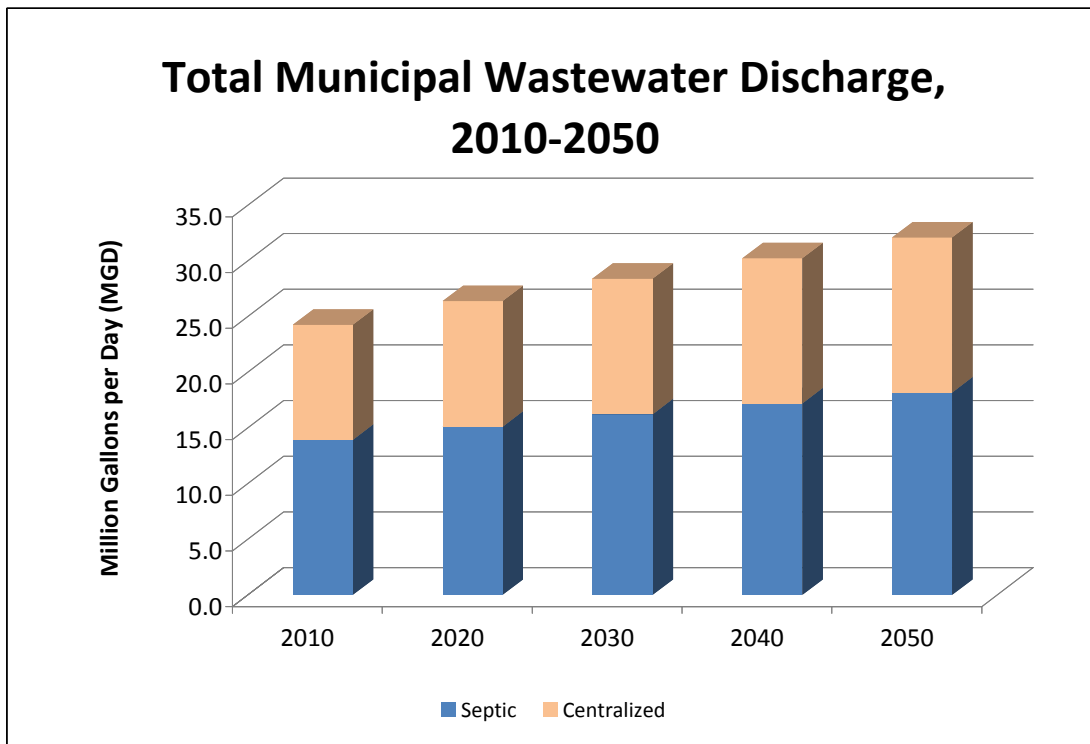
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## Draft March 2010 Municipal Wastewater Demand Forecasts for the Altamaha Water Planning Region

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**ALT3. Total Municipal Wastewater Produced (mgd), max monthly demand**

COUNTY	2010	2020	2030	2040	2050
Appling	1.60	1.76	1.90	2.03	2.16
Bleckley	1.01	1.09	1.15	1.21	1.25
Candler	0.84	1.04	1.30	1.60	1.95
Dodge	2.14	2.29	2.41	2.43	2.44
Emanuel	2.57	2.67	2.80	2.93	3.07
Evans	0.85	0.96	1.07	1.17	1.25
Jeff Davis	1.51	1.56	1.60	1.62	1.63
Johnson	0.73	0.75	0.76	0.78	0.78
Montgomery	0.80	0.91	0.99	1.04	1.08
Tattnall	2.15	2.47	2.81	3.16	3.52
Telfair	1.54	1.60	1.66	1.69	1.73
Toombs	3.25	3.54	3.77	4.05	4.42
Treutlen	0.68	0.73	0.78	0.79	0.78
Wayne	3.06	3.37	3.66	3.94	4.19
Wheeler	0.60	0.65	0.70	0.73	0.76
Wilcox	0.93	0.99	1.03	1.06	1.08
<b>Grand Total</b>	<b>24.26</b>	<b>26.38</b>	<b>28.40</b>	<b>30.23</b>	<b>32.10</b>



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**ALT3.1 Municipal Septic Wastewater (mgd), max month**

COUNTY	2010	2020	2030	2040	2050
Appling	1.00	1.10	1.18	1.26	1.33
Bleckley	0.53	0.57	0.60	0.63	0.65
Candler	0.59	0.74	0.91	1.12	1.37
Dodge	1.36	1.45	1.52	1.53	1.52
Emanuel	1.48	1.53	1.59	1.66	1.73
Evans	0.49	0.56	0.62	0.67	0.72
Jeff Davis	0.80	0.82	0.84	0.84	0.85
Johnson	0.62	0.63	0.65	0.66	0.66
Montgomery	0.50	0.56	0.61	0.64	0.66
Tattnall	1.20	1.37	1.56	1.74	1.93
Telfair	0.73	0.75	0.78	0.79	0.80
Toombs	1.22	1.32	1.40	1.50	1.62
Treutlen	0.39	0.42	0.45	0.45	0.44
Wayne	2.03	2.22	2.41	2.58	2.73
Wheeler	0.46	0.50	0.53	0.56	0.58
Wilcox	0.51	0.54	0.56	0.57	0.58
<b>Grand Total</b>	<b>13.93</b>	<b>15.10</b>	<b>16.22</b>	<b>17.20</b>	<b>18.18</b>

**ALT3.2 Municipal Septic Wastewater (% of wastewater flow)**

COUNTY	2010	2020	2030	2040	2050
Appling	63%	62%	62%	62%	62%
Bleckley	53%	53%	52%	52%	52%
Candler	71%	71%	71%	70%	70%
Dodge	64%	63%	63%	63%	62%
Emanuel	57%	57%	57%	57%	56%
Evans	58%	58%	58%	58%	58%
Jeff Davis	53%	53%	52%	52%	52%
Johnson	85%	85%	85%	85%	85%
Montgomery	62%	62%	62%	62%	61%
Tattnall	56%	56%	55%	55%	55%
Telfair	47%	47%	47%	47%	47%
Toombs	38%	37%	37%	37%	37%
Treutlen	58%	58%	58%	57%	57%
Wayne	66%	66%	66%	65%	65%
Wheeler	77%	77%	76%	76%	76%
Wilcox	55%	55%	54%	54%	54%
<b>Grand Total</b>	<b>57%</b>	<b>57%</b>	<b>57%</b>	<b>57%</b>	<b>57%</b>

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**ALT3.3 Municipal Centralized Wastewater (mgd), max month**

COUNTY	2010	2020	2030	2040	2050
Appling	0.60	0.66	0.72	0.78	0.83
Bleckley	0.47	0.52	0.55	0.58	0.61
Candler	0.24	0.31	0.38	0.47	0.58
Dodge	0.78	0.84	0.89	0.91	0.92
Emanuel	1.10	1.15	1.21	1.27	1.34
Evans	0.35	0.40	0.45	0.49	0.53
Jeff Davis	0.71	0.74	0.76	0.78	0.79
Johnson	0.11	0.11	0.11	0.12	0.12
Montgomery	0.31	0.35	0.38	0.40	0.42
Tattnall	0.94	1.09	1.25	1.42	1.60
Telfair	0.81	0.85	0.88	0.90	0.92
Toombs	2.02	2.21	2.37	2.55	2.80
Treutlen	0.28	0.31	0.33	0.34	0.33
Wayne	1.04	1.15	1.26	1.36	1.46
Wheeler	0.14	0.15	0.16	0.17	0.18
Wilcox	0.42	0.45	0.47	0.49	0.50
<b>Grand Total</b>	<b>10.33</b>	<b>11.28</b>	<b>12.18</b>	<b>13.03</b>	<b>13.92</b>

**ALT3.4 Municipal Centralized Wastewater (% of wastewater flow)**

COUNTY	2010	2020	2030	2040	2050
Appling	37%	38%	38%	38%	38%
Bleckley	47%	47%	48%	48%	48%
Candler	29%	29%	29%	30%	30%
Dodge	36%	37%	37%	37%	38%
Emanuel	43%	43%	43%	43%	44%
Evans	42%	42%	42%	42%	42%
Jeff Davis	47%	47%	48%	48%	48%
Johnson	15%	15%	15%	15%	15%
Montgomery	38%	38%	38%	38%	39%
Tattnall	44%	44%	45%	45%	45%
Telfair	53%	53%	53%	53%	53%
Toombs	62%	63%	63%	63%	63%
Treutlen	42%	42%	42%	43%	43%
Wayne	34%	34%	34%	35%	35%
Wheeler	23%	23%	24%	24%	24%
Wilcox	45%	45%	46%	46%	46%
<b>Grand Total</b>	<b>43%</b>	<b>43%</b>	<b>43%</b>	<b>43%</b>	<b>43%</b>

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**MC3.5 Municipal Centralized Wastewater, Point Source Discharge**

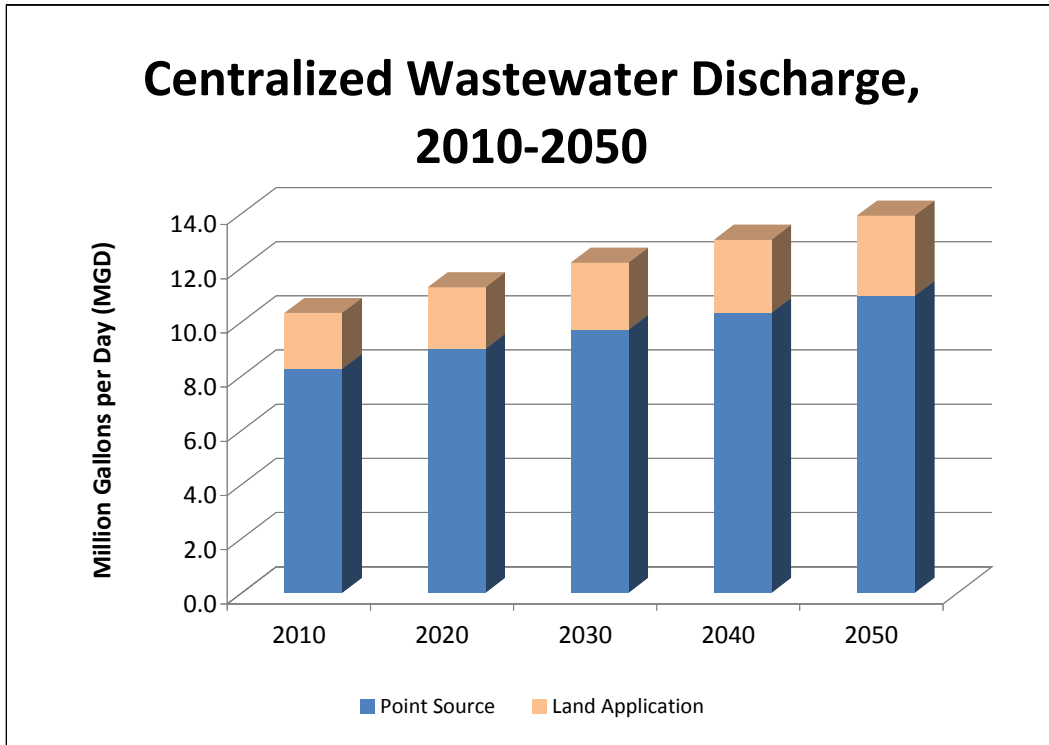
<b>COUNTY</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>
Appling	0.48	0.53	0.58	0.62	0.67
Bleckley	0.47	0.52	0.55	0.58	0.61
Candler	0.00	0.00	0.00	0.00	0.00
Dodge	0.64	0.69	0.74	0.75	0.76
Emanuel	1.05	1.10	1.16	1.22	1.29
Evans	0.35	0.40	0.45	0.49	0.53
Jeff Davis	0.71	0.74	0.76	0.78	0.79
Johnson	0.11	0.11	0.11	0.12	0.12
Montgomery	0.27	0.31	0.34	0.36	0.37
Tattnall	0.94	1.09	1.25	1.42	1.60
Telfair	0.40	0.42	0.43	0.45	0.46
Toombs	0.99	1.08	1.16	1.25	1.37
Treutlen	0.28	0.31	0.33	0.34	0.33
Wayne	0.98	1.09	1.19	1.29	1.39
Wheeler	0.14	0.15	0.16	0.17	0.18
Wilcox	0.42	0.45	0.47	0.49	0.50
<b>Grand Total</b>	<b>8.26</b>	<b>9.00</b>	<b>9.70</b>	<b>10.33</b>	<b>10.96</b>

**MC3.6 Municipal Centralized Wastewater, Land Application Discharge**

<b>COUNTY</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>
Appling	0.12	0.13	0.14	0.15	0.17
Bleckley	0.00	0.00	0.00	0.00	0.00
Candler	0.24	0.31	0.38	0.47	0.58
Dodge	0.13	0.14	0.15	0.16	0.16
Emanuel	0.04	0.04	0.05	0.05	0.05
Evans	0.00	0.00	0.00	0.00	0.00
Jeff Davis	0.00	0.00	0.00	0.00	0.00
Johnson	0.00	0.00	0.00	0.00	0.00
Montgomery	0.03	0.03	0.04	0.04	0.04
Tattnall	0.00	0.00	0.00	0.00	0.00
Telfair	0.41	0.43	0.45	0.46	0.47
Toombs	1.04	1.13	1.21	1.31	1.43
Treutlen	0.00	0.00	0.00	0.00	0.00
Wayne	0.05	0.06	0.06	0.07	0.07
Wheeler	0.00	0.00	0.00	0.00	0.00
Wilcox	0.00	0.00	0.00	0.00	0.00
<b>Grand Total</b>	<b>2.07</b>	<b>2.28</b>	<b>2.48</b>	<b>2.70</b>	<b>2.97</b>

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