



Georgia's
State Water Plan

Preliminary Forecast Results

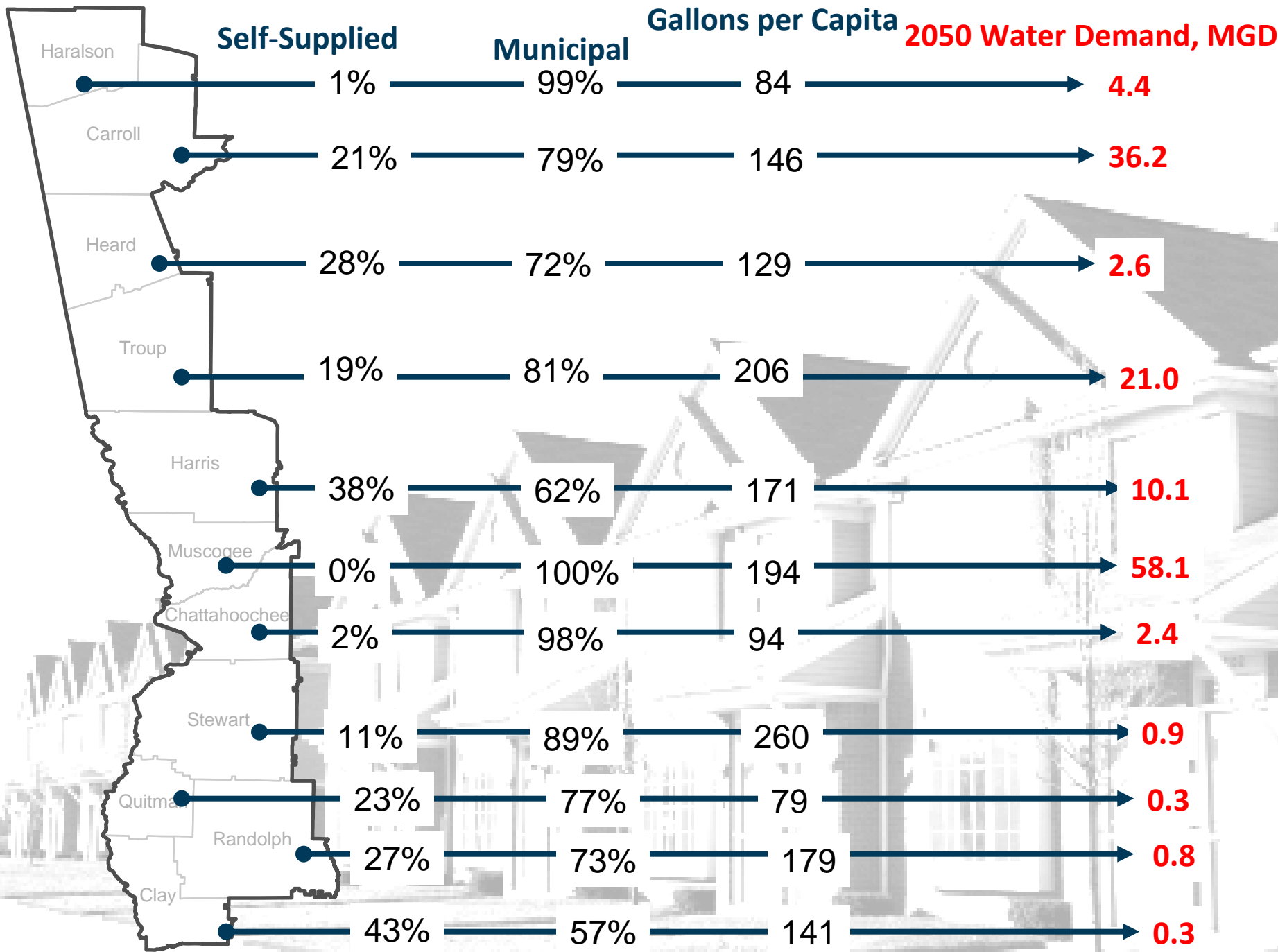









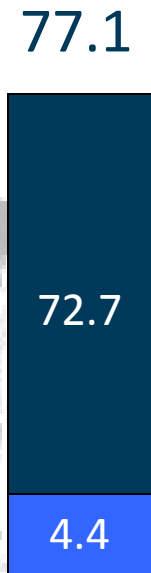
$$\begin{array}{c} \text{Base Year} \\ \text{Per Capita} \\ \text{Water} \\ \text{Demand} \end{array} \times \begin{array}{c} \text{Future} \\ \text{Population} \end{array} = \begin{array}{c} \text{Future} \\ \text{Water} \\ \text{Need} \end{array}$$



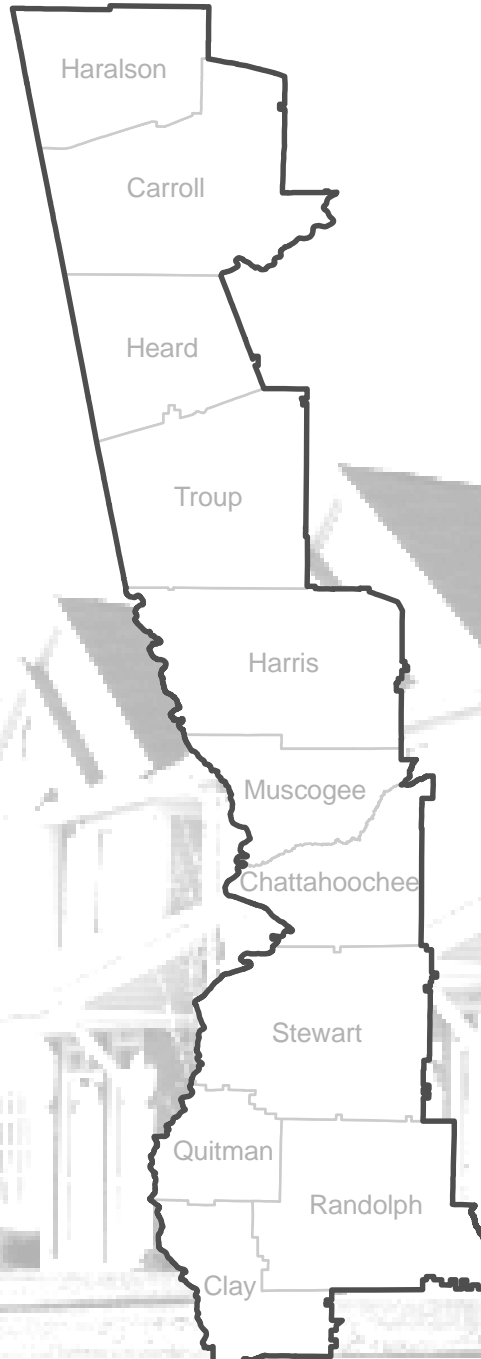


-  municipal demand
-  self-supply demand
-  plumbing code based water savings

2010 water use



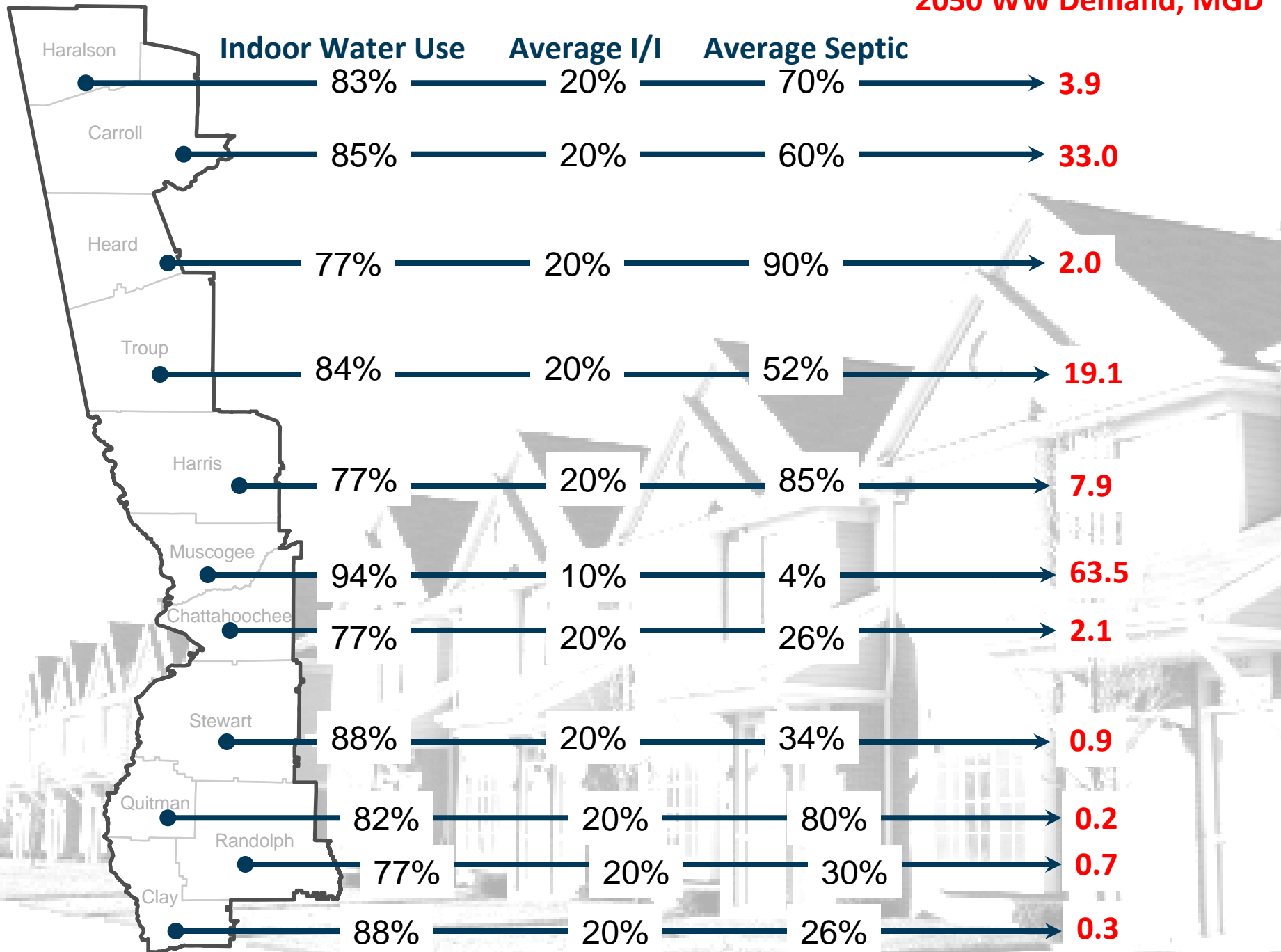
2050 water use



$$\text{Total Wastewater Generation} = \text{Projected Municipal Water Use} \times \text{Percent Average Indoor Water Use} \times (1 + \% I/I)$$



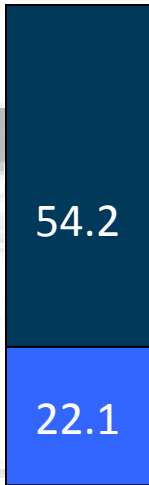
2050 WW Demand, MGD



- centralized disposal
- septic disposal

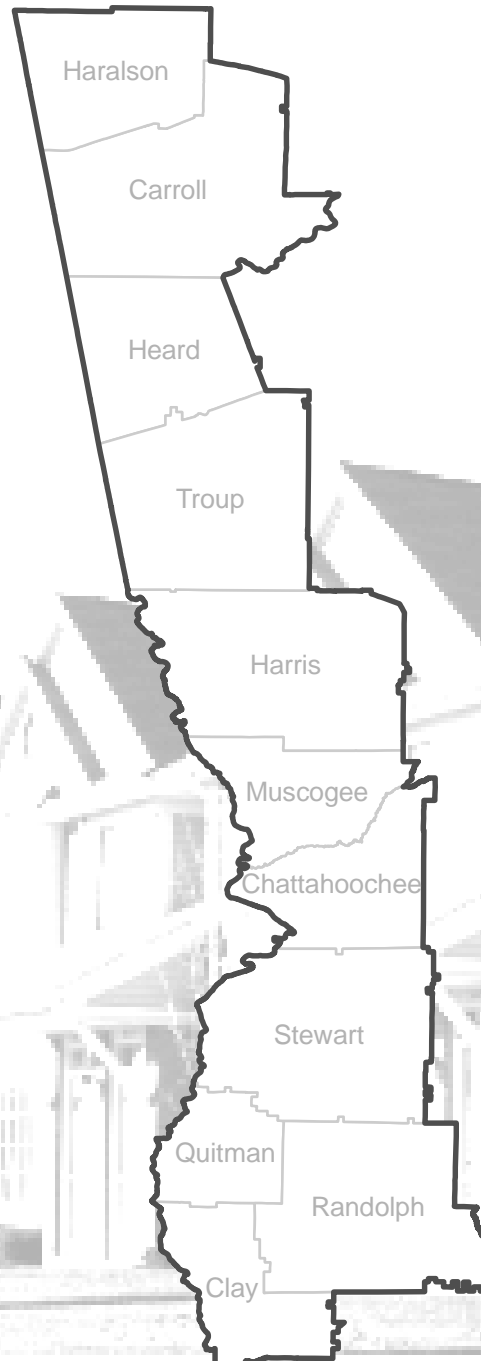
2010 wastewater generation

76.2

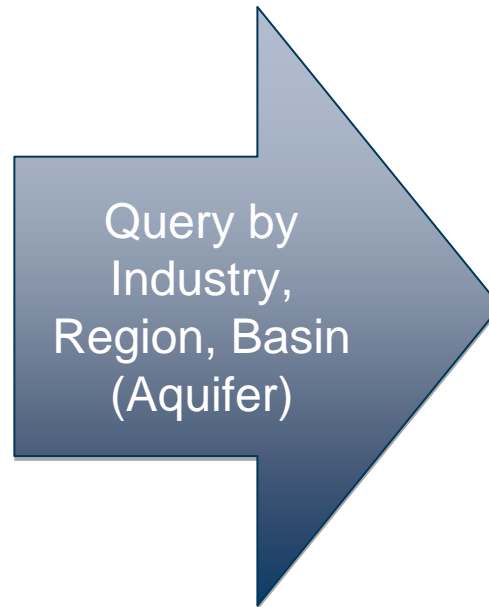


2050 wastewater generation

133.6

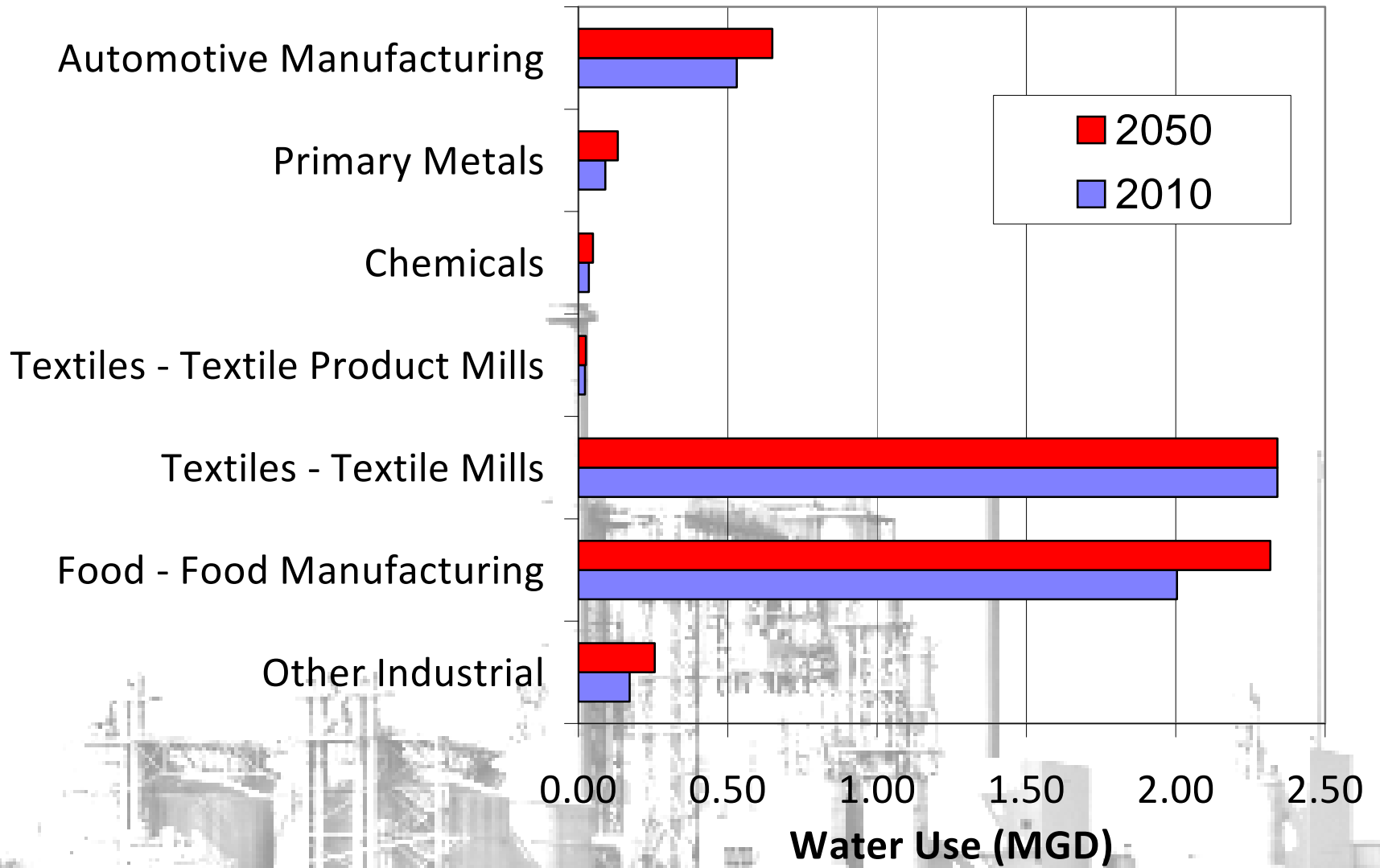


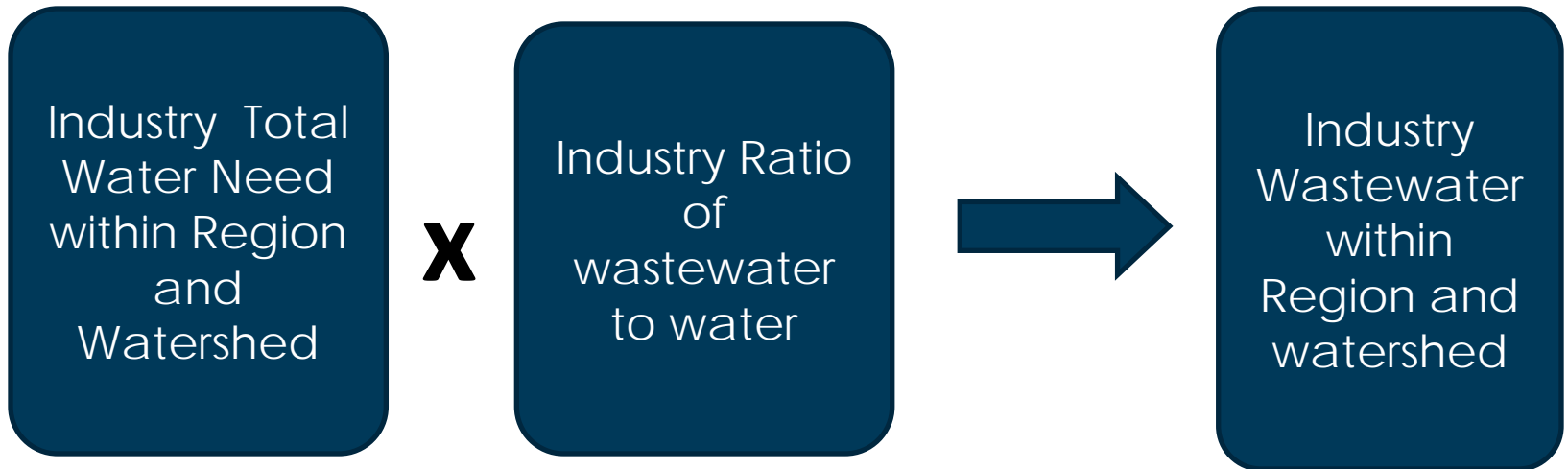


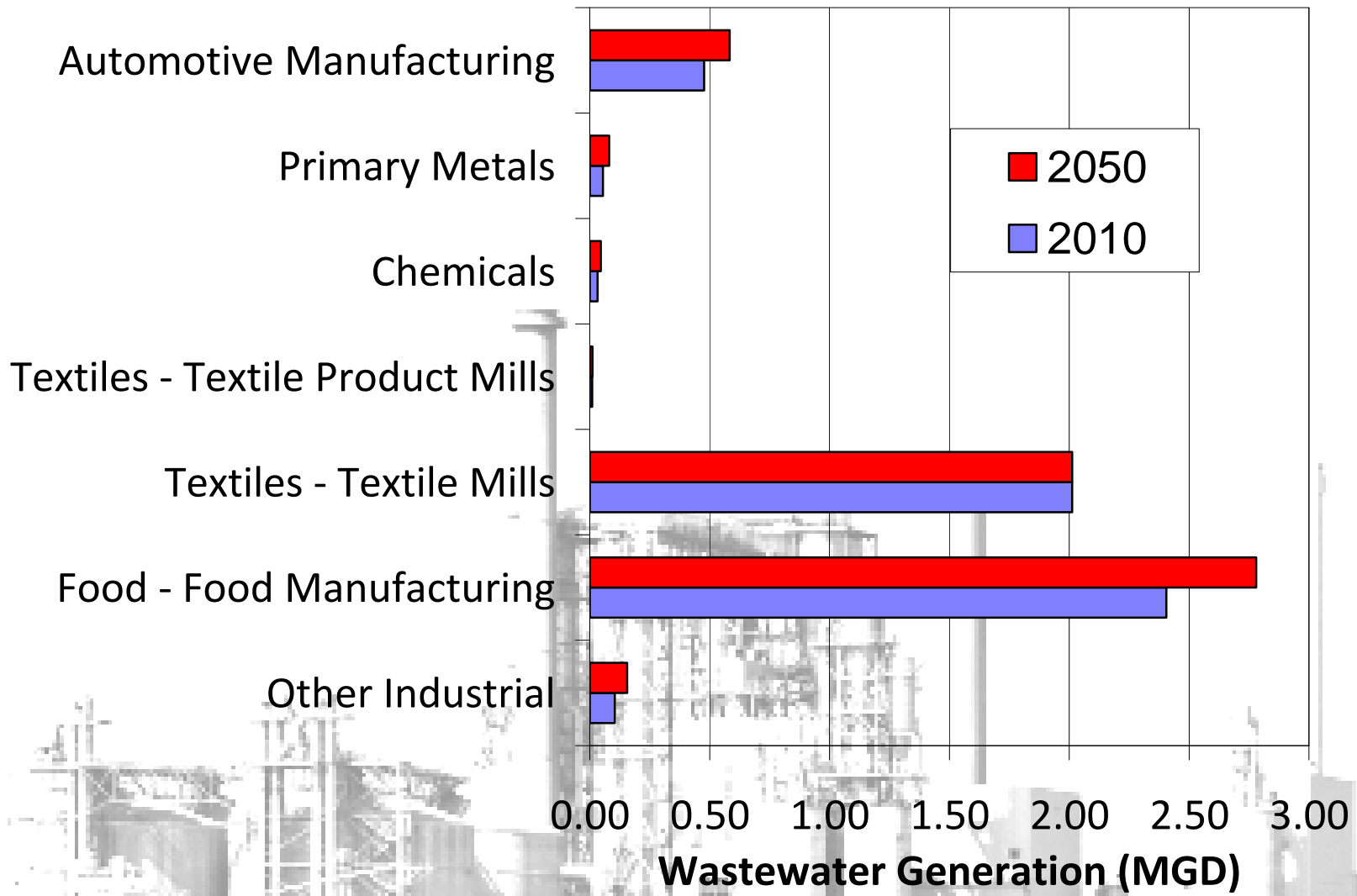


employment by category

Industry	2010	2050
Other Industrial	192,403	286,445
Mining	147	155
Food - Food Manufacturing	3,725	4,306
Food - Beverage and Tobacco	88	99
Textiles - Textile Mills	1,323	0
Textiles - Textile Product Mills	2,381	2,676
Apparel	499	0
Paper	870	1,038
Petroleum	59	65
Chemicals	355	499
Rubber	1,686	2,009
Stone and Clay	567	642
Primary Metals	2,601	3,817
Fabricated Metal Products	1,499	1,837
Electrical Machinery	1,212	1,912
Automotive Manufacturing	5,032	4,743

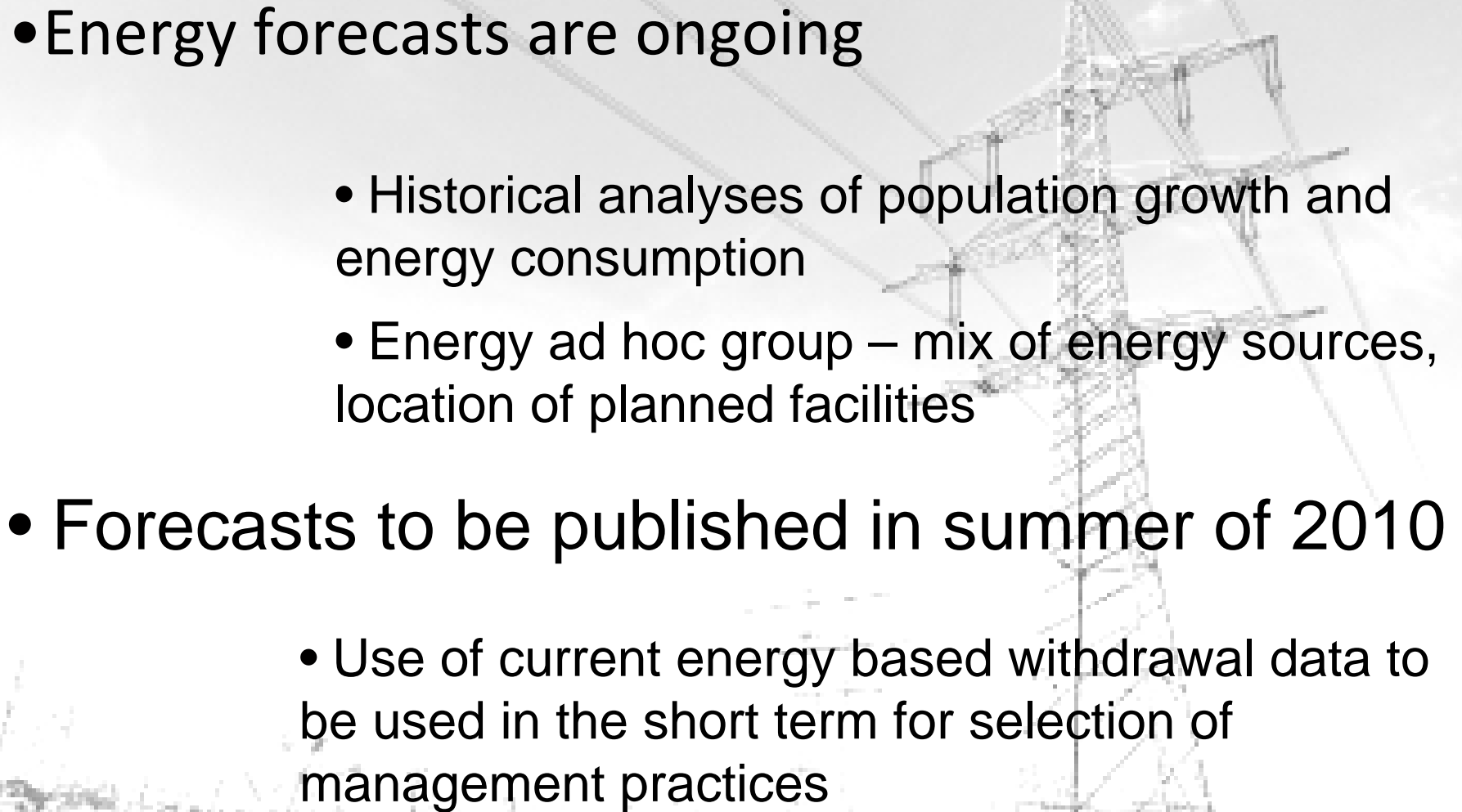








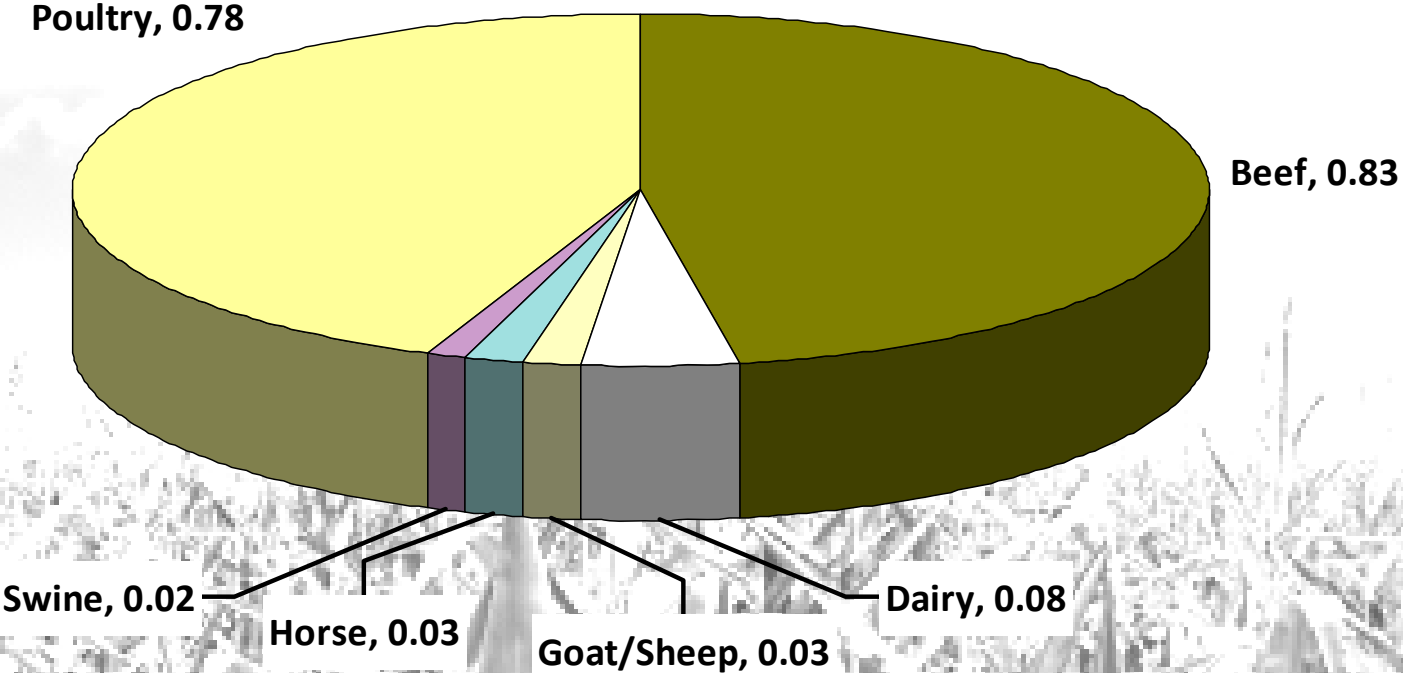


- 
- Energy forecasts are ongoing
 - Historical analyses of population growth and energy consumption
 - Energy ad hoc group – mix of energy sources, location of planned facilities
 - Forecasts to be published in summer of 2010
 - Use of current energy based withdrawal data to be used in the short term for selection of management practices

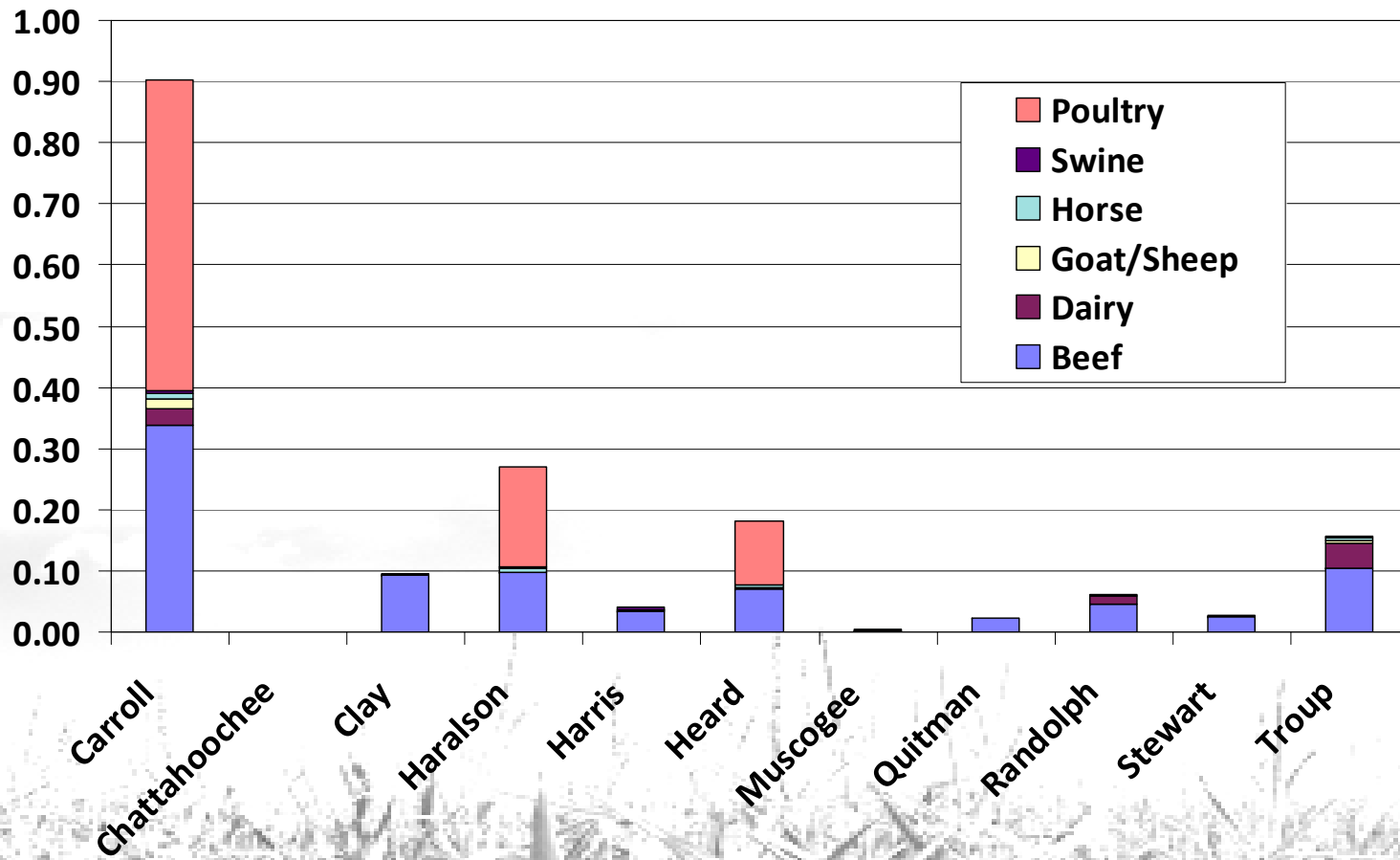




**Council-wide Livestock Water Use,
(all values are given in MGD)**

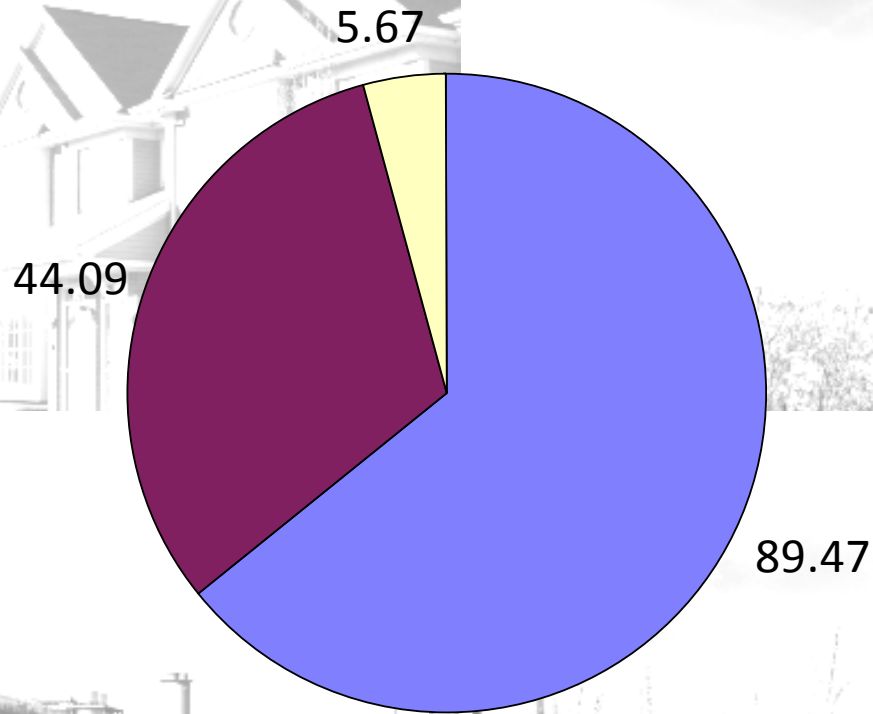


Current Water Usage (MGD)





2050 Wastewater Generation (MGD)

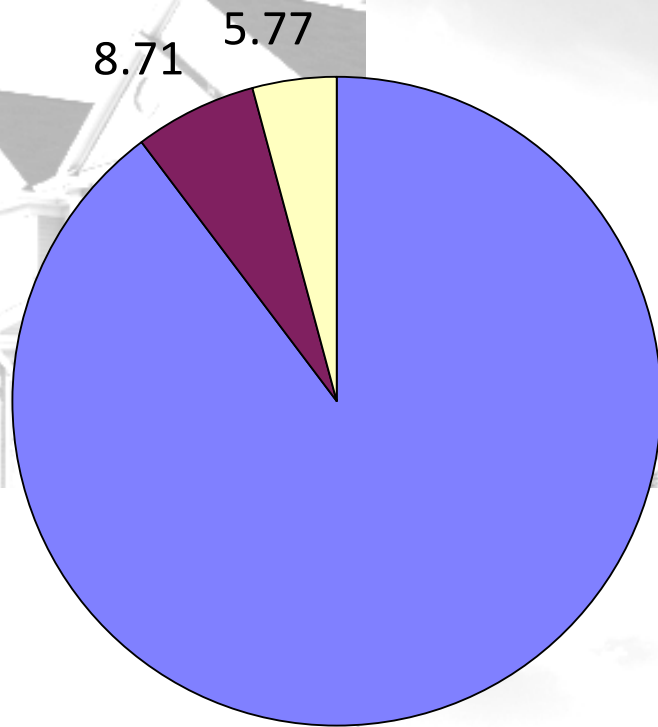


■ Municipal - Centralized

■ Municipal - Septic

■ Industrial

2050 Water Use (MGD)

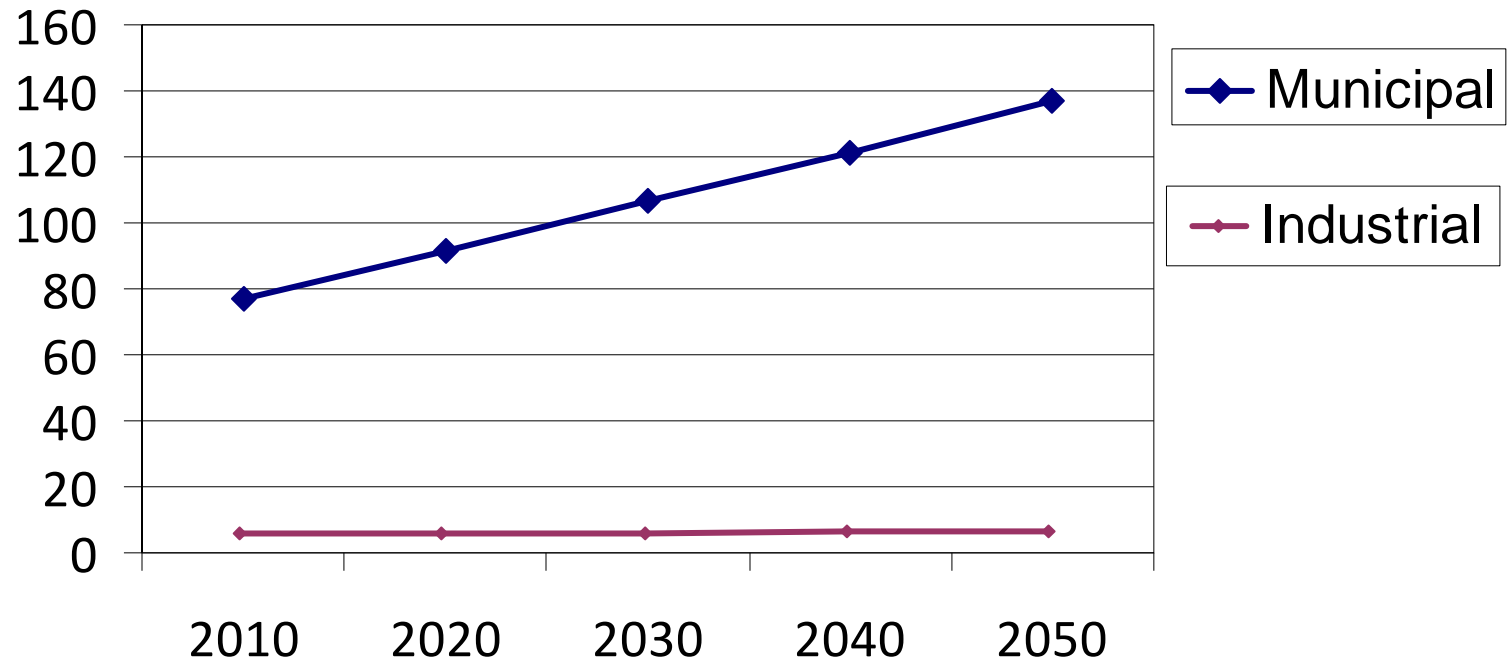


■ Municipal - Public Supply

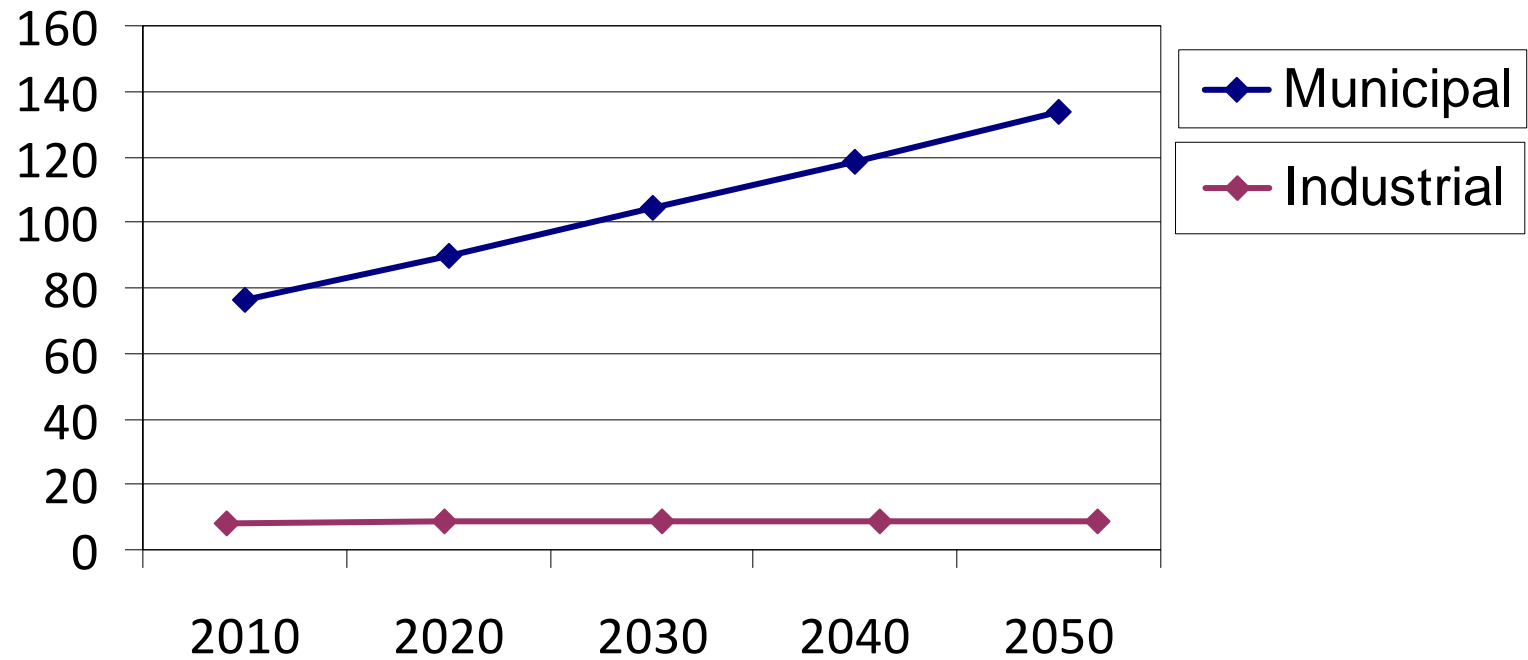
■ Municipal - Self-Supply

■ Industrial

Water Use (MGD)



Wastewater Generation (MGD)





Georgia's
State Water Plan

Preliminary Forecast Results