



Georgia's
State Water Plan

**UPPER FLINT
REGIONAL WATER PLANNING COUNCIL**
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Population Projections and Water Demand Forecasting

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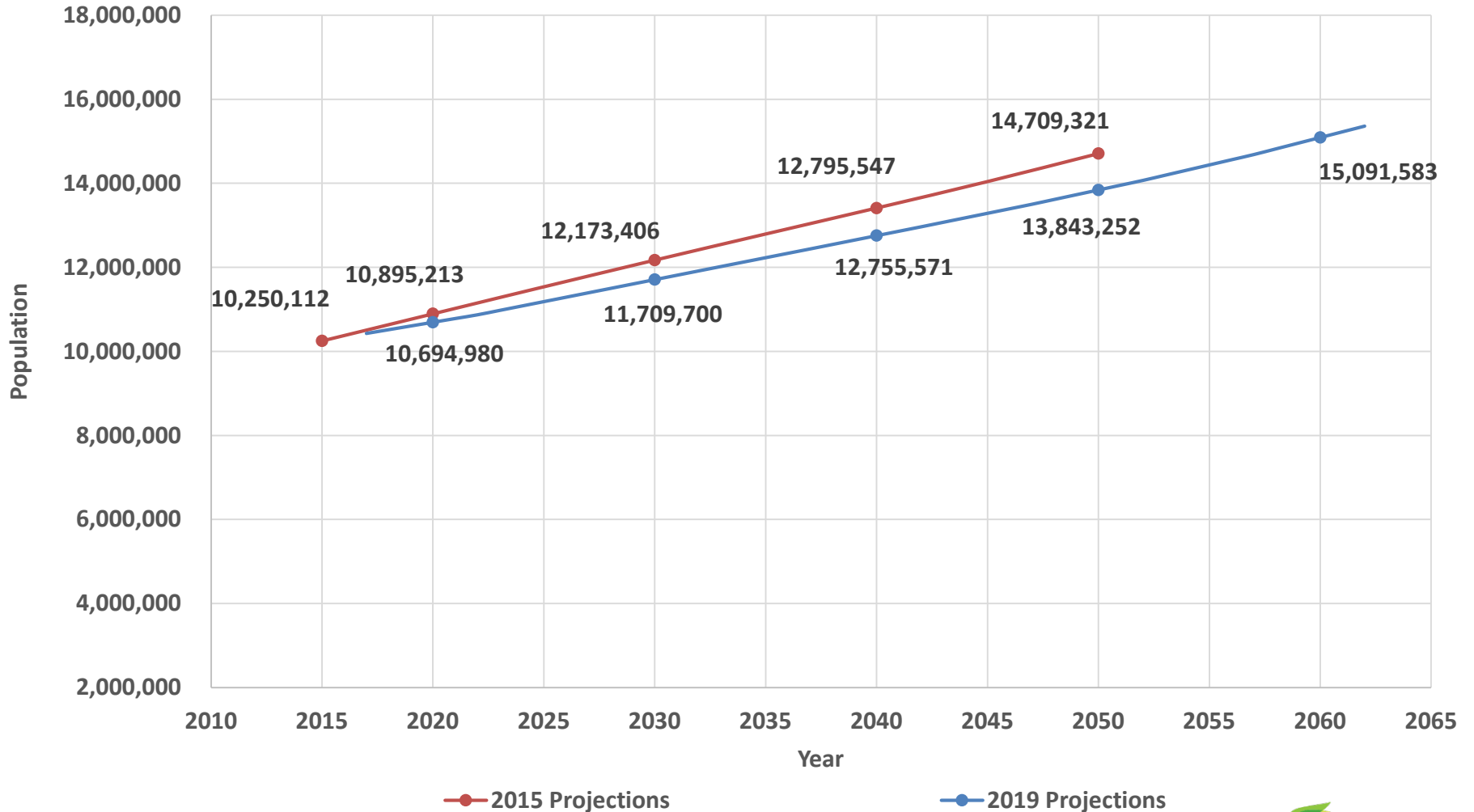
Background

- Prepared by Carl Vinson Institute of Government at University of Georgia in June 2019 for the Governor's Office of Planning and Budget (OPB)
- Based on data from 2013 to 2017
- Includes count estimates for all counties for each year between 2018 and 2035, then in five year intervals through 2062

Cohort-Component Methodology

1. Baseline set of cohorts for duration selected
 - Drawn from years 2013 to 2017 of the US Census Bureaus Population Estimates program
 - Previous census not used to capture post-recession trends
 - Non-Hispanic white, non-Hispanic black, Hispanic, non-Hispanic Other
2. Baseline fertility, mortality, and migration measures determined
 - Fertility rates: average birth counts per female household population
 - Mortality rates: deaths per baseline population
 - Survival rates and life expectancy created, with life expectancy gradually increasing in model
 - Migration: $\text{Population Level} - (\text{Beginning Population} + \text{Births} - \text{Deaths})$
 - Assumed rates will subside and stabilize
3. Method of projecting trends of fertility, mortality, and migration rates determined
 - County populations projected and summed for state projection
4. Rates applied to baseline cohorts using computational procedure

Statewide Projections



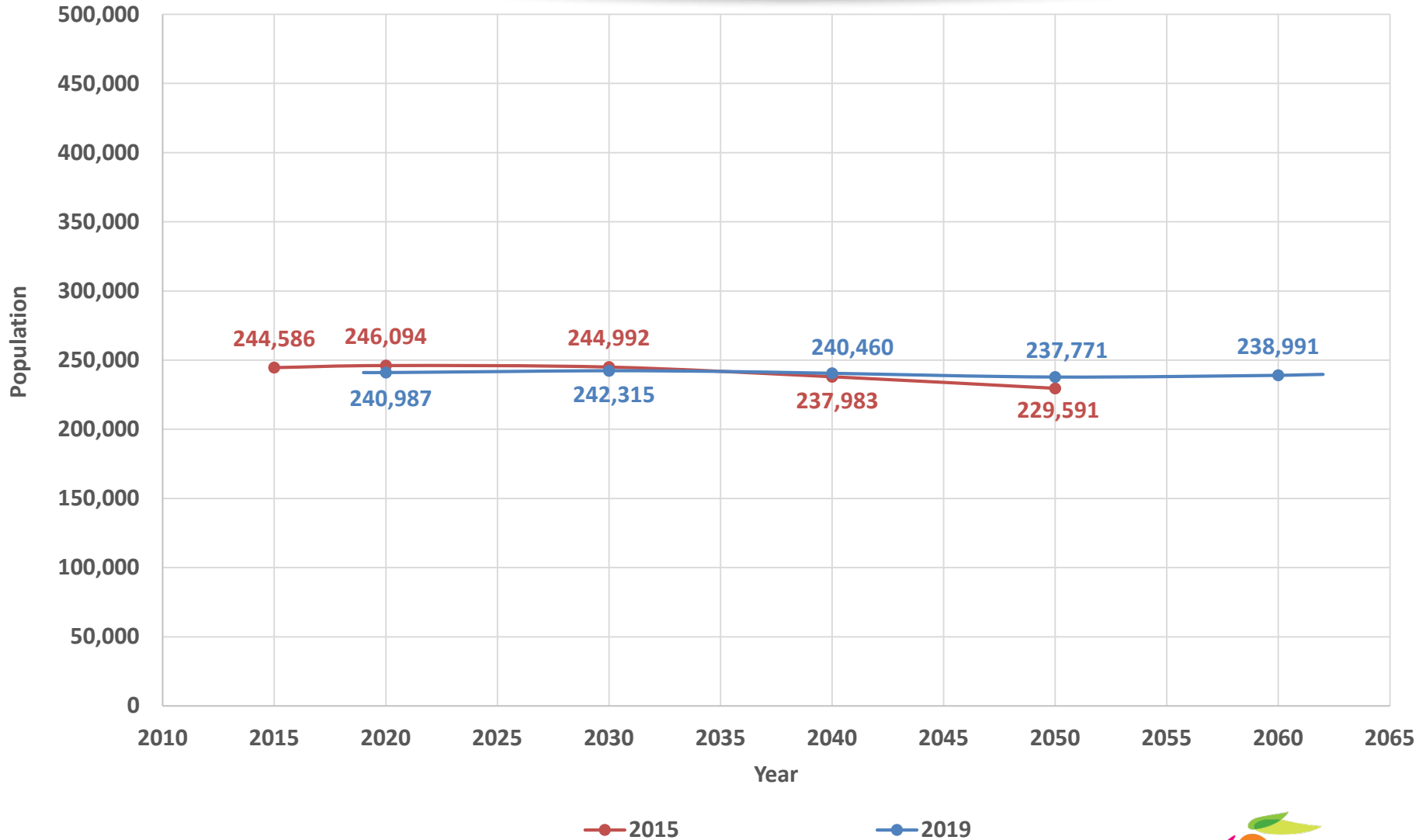
Note: Updated projections completed through 2062



2019 Population Projections in UFL

County	2020	2030	2040	2050	2060
Crisp	22,412	21,551	20,369	19,046	18,016
Dooly	13,362	12,357	11,273	10,155	9,374
Macon	13,074	12,294	11,305	10,310	9,642
Marion	8,371	8,088	7,689	7,188	6,876
Meriwether	20,990	20,936	20,513	20,037	19,957
Pike	18,546	19,883	21,013	21,815	22,749
Schley	5,259	5,516	5,738	5,916	6,092
Spalding	67,026	72,601	77,342	82,325	88,254
Sumter	29,123	27,034	24,746	22,286	20,292
Talbot	6,057	5,477	4,751	4,036	3,618
Taylor	8,024	7,728	7,327	6,933	6,716
Upson	26,251	26,612	26,401	25,945	25,751
Webster	2,492	2,238	1,993	1,779	1,654
Total	240,987	242,315	240,460	237,771	238,991

UFL Population Projections Comparison



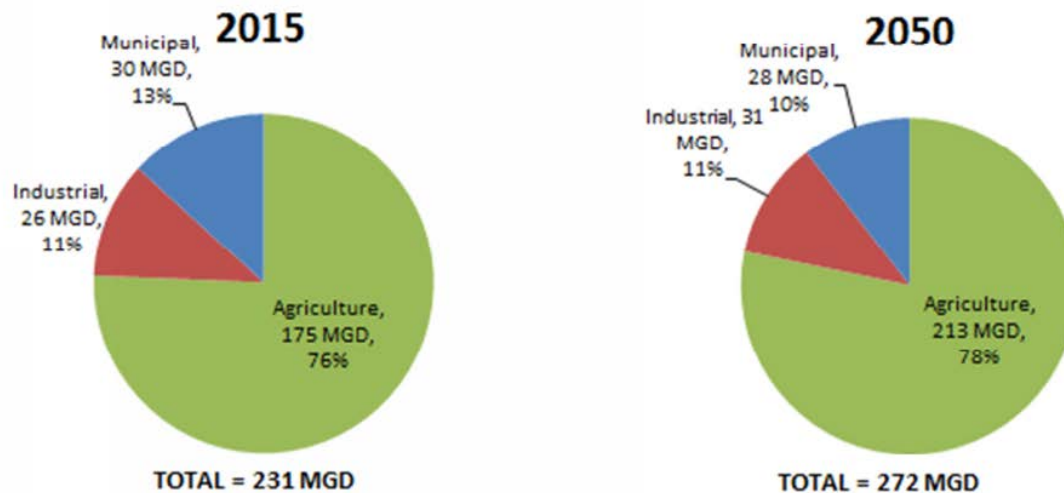
Next Steps

- Use new population projections in updated water demand projections
- Water demand and wastewater generation projection updates planned for 2020
- Meetings around the state to meet with stakeholders
- Water demand projections based on updated per capita demands by county
- Wastewater flow projections based on updated flow information

Next Steps

- Update water use forecasts beginning 2020
 - Municipal
 - Agricultural
 - Energy production
 - Industrial

Figure 4-1: Water Demand in 2015 and 2050



Note: Figure 4-1 from 2017 UFL Regional Water Plan