



Georgia's  
**State Water Plan**

**LOWER FLINT-OCHLOCKONEE  
REGIONAL WATER PLANNING COUNCIL**

December 11, 2019



# Population Projections and Water Demand Forecasting

Stephen Simpson, P.E.



# 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 county estimates for all counties for each year between 2018 and 2035, then in five year intervals through 2062

# Methodology: Cohort-Component

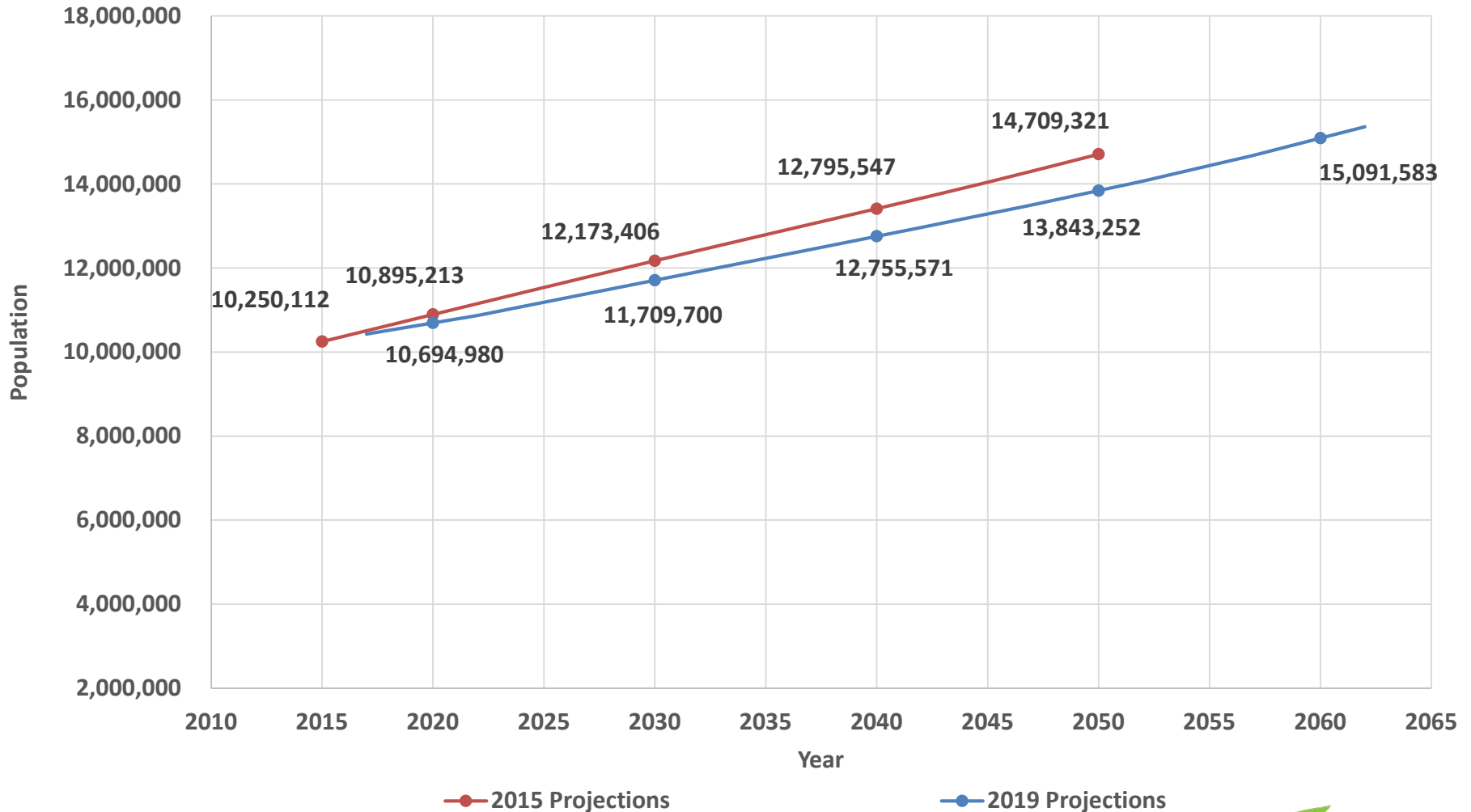


- Baseline cohorts drawn from years 2013 to 2017 of the US Census Bureau's Population Estimates program
- Previous census not used to capture post-recession trends

- Fertility rates: average birth counts per female household population
- Mortality rates: deaths per baseline population; life expectancy gradually increases in model
- Migration: Estimated based on migration for 2013-2017 and assumed rates will subside and stabilize

- County populations projected and summed for state projection
- Yearly estimates for 2018 to 2035, five-year interval estimates for 2035 to 2062

# Statewide Projections



Note: Updated projections completed through 2062

# 2019 Population Projections in LFO

County	2020	2030	2040	2050	2060
Baker	3,106	2,851	2,567	2,331	2,203
Calhoun	6,387	6,291	6,159	5,986	5,891
Colquitt	45,826	45,926	45,337	44,147	42,749
Decatur	26,512	25,881	24,905	23,689	22,646
Dougherty	87,247	81,538	75,711	69,754	65,524
Early	10,226	10,111	9,934	9,731	9,644
Grady	24,670	24,396	23,720	22,840	22,260
Lee	29,806	31,047	31,842	32,183	32,641
Miller	5,844	6,015	6,288	6,605	7,019
Mitchell	22,050	21,405	20,466	19,423	18,732
Seminole	8,020	7,251	6,412	5,709	5,253
Terrell	8,514	7,887	7,238	6,687	6,446
Thomas	44,725	44,858	44,467	43,745	43,534
Worth	20,289	19,591	18,721	17,919	17,626
<b>Total</b>	<b>343,222</b>	<b>335,048</b>	<b>323,767</b>	<b>310,749</b>	<b>302,168</b>

# LFO Population Projection Comparison



# Next Steps

- Water demand and wastewater generation projection updates planned for 2020
  - Updated population projections
  - Updated per capita water demand rates
  - Updated wastewater flow data
- Methodology review meetings with water and wastewater permit holders

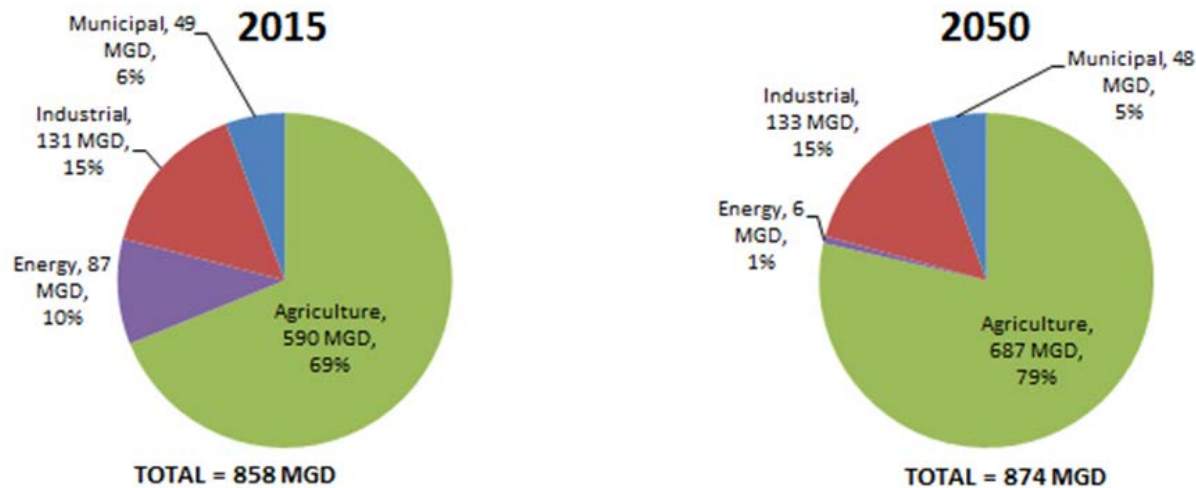
***Review water and wastewater demand forecasts with Regional Water Councils***



# 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 LFO Regional Water Plan