Georgia's
State Water Plan

Regional Water Plan Review and Revision
Upper Oconee
Regional Water Planning Council
Council Meeting 1
March 22, 2016

www.georgiawaterplanning.org

Introduction

- Registration and Public Comment sign in

- Welcome from Chairman Davis
- Acknowledge Elected Officials
- Council and Contractor Introductions
- Review Minutes from Last Meeting
- Review and Approve Agenda

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Elected Official Comments and Public Comments

- Sign up for public comments during morning registration period (to ensure enough time is allotted)
- Please limit comments to 3 minutes total
- Council encourages written submission of comments as well, to ensure meeting summaries accurately reflect comments

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Introduction

Georgia EPD Contacts

- Lebone Moeti – Point of Contact, Upper Oconee
- Jennifer Welte – Project Manager for Review & Revision Process

- Dr. Elizabeth Booth – Surface Water Quality Resource Assessment
- Dr. Wei Zeng - Surface Water Quanity Resource Assessment
- Dr. Jim Kennedy – Groundwater Resource Assessment

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Introduction

Planning Contractor – CDM Smith-Jacobs Team

- Primary Council Supports – Dale Jones, Jacobs
  Zakiya Seymour, Jacobs

- Overall Project Manager - Shayne Wood, CDM
- Technical Advisor - Rick Brown

Project Area Leads:

- Demand Forecasting – Bill Davis, CDM
- Water Availability Resource Assessments – Lee Wiseman, CDM
- Management Practices – Dale Jones, Jacobs

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Georgia's
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Review and Revision (Round 2 Planning)
Overview and Schedule

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Review and Revision Overview and Schedule

THANK YOU to Interim Planning Contractors:

- Carl Vinson Institute of Government, University of Georgia
  - Altamaha; Coastal; Savannah-Upper Ogeechee; Suwannee-Satilla
- Middle Georgia Regional Commission
  - Upper Oconee; Middle Ocmulgee
- North Georgia Regional Commission
  - Coosa
- Georgia Water Planning and Policy Center
  - Middle Chattahoochee; Lower Flint-Ochlockonee; Upper Flint

Review and Revision Process will incorporate, as needed, the findings and conclusions that Council arrived at during the interim planning period

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Review and Revision Overview and Schedule

12 Month Process

Meeting One
1st Quarter 2016
(Today)

Meeting Two
Joint Council Meeting
2nd Quarter 2016

Meeting Three
3rd Quarter 2016

Meeting Four
4th Quarter 2016
Draft Plan

Meeting Five (Final)
1st Quarter 2017
Incorporate Comments

Water Planning Regions

EPD adoption of revised Regional Water Plan by March 31, 2017

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Review and Revision Overview and Schedule

Draft revisions to Regional Water Plans will be submitted in sections

Section 1 *Due: April 2016*	Section 2 *Due: July 2016*	Section 3 *Due: October 2016*
• M & I Forecasts • Energy Forecast	• Agricultural Forecast • Resource Assessment	• Forecast / Gap Updates • Management Practices

FINAL DRAFT – DECEMBER 2016

- 45-day comment period / concurrent review (EPD)
- **Feb 2017** Review and incorporate comments / changes (Council)
- **Feb 28, 2017** Council submits final plan to EPD

FINAL PLAN – EPD TO ADOPT MARCH 31, 2017

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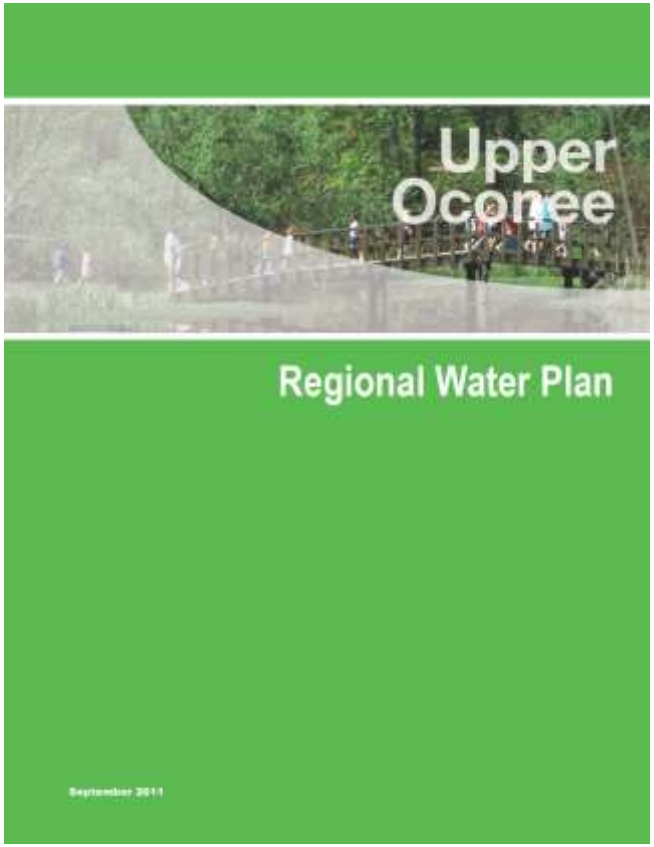
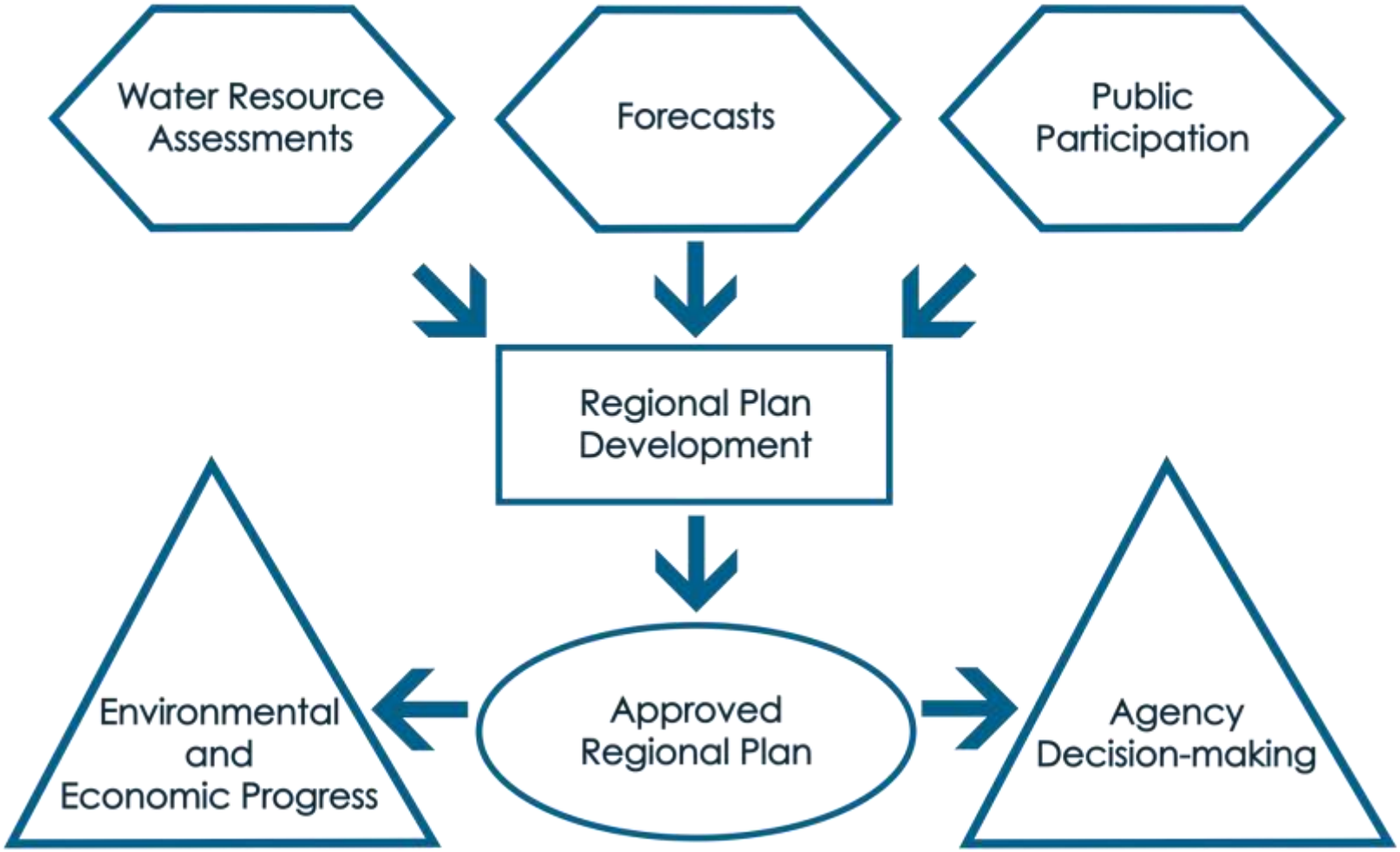
Review and Revision Overview and Schedule

- Councils will focus on:
  - Evaluating updated water demand and wastewater forecasts
  - Evaluating updated energy and agricultural forecasts
  - Reviewing existing Industrial forecasts
  - Evaluating updated Surface Water and Ground Water Availability Resource Assessments (**Quantity**); and updated Surface Water **Quality** Resource Assessment
  - Evaluating and refining Management Practices, if needed



Water Planning Process



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Review and Revision Overview and Schedule

Revisions to Regional Water Plans and submission dates:

- **Plan Drafts** (Section Revisions)
  - 1st Draft – updates to M&I and Energy Forecasting (April 2016)
  - 2nd Draft – Updates to Agricultural Forecasting and Resource Assessment (July 2016)
  - 3rd Draft –Updates to Forecasts/Gap Information and Management Practices (October 2016)

- **Final Draft** (December 2016)
  - EPD will implement a 45-day comment period and conduct concurrent review
  - Council will review comments and incorporate changes in February 2017
  - Council will submit final recommended plan to EPD by February 28, 2017

- **Final Plan** will be adopted by EPD by March 31, 2017

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2011 Regional Water Plans

How were the 2011 Plans used?

- Used by EPD to Guide Permitting Decisions
- Used by EPD and GEFA to inform funding decisions
- Facilitated improvement to Resource Assessment Methods
- Facilitated additional research and data gathering for agricultural water use

- Select Projects/Activities Associated with Water Planning
  - Priority grant funding (Section 319(h) nonpoint source grant)
  - Aquifer Storage and Recovery pilot project in Flint River Basin
  - Ground water to surface water pilot project in Flint River Basin
  - Cretaceous well feasibility study to address Salt Water Intrusion

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Georgia's State Water Plan

Vision and Goals

www.georgiawaterplanning.org

Vision and Goals

- In Round 1, each Council went through an extensive visioning process to develop Vision and subsequent supporting Goals
  - Goals and Vision are required by State Water Plan, Section 14
  - Council Vision will guide and frame the selection of management practices

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Vision and Goals

Upper Oconee Adopted Vision

as adopted by the Council 11/18/2009, and revised 8/11/2010.

Create a regional plan that focuses on managing water as a critical resource vital to our health, economic, social and environmental well being. Build trusting partnerships with neighboring regions and develop an educated and engaged citizenry that embraces sound water management.

Source: www.oconeeriversaudubon.org

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Vision and Goals

Source: georgiainfo.galileo.usg.edu

Upper Oconee Adopted Goals

as adopted by the Council 11/18/2009, and revised 8/11/2010.

- Promote alternatives and technologies that conserve, reuse, return, and recycle water within the Upper Oconee region,
- Ensure that management practices balance economic development, recreation, and environmental interests,
- Educate stakeholders in the region on the importance of water quality and managing water as a resource including practices such as water conservation and increased water efficiency,
- Encourage the development of and accessibility to data and information to guide management decisions,
- Identify programs, projects, and educational messages to reduce non-point source pollution to protect water quality in lakes and streams,
- Recommend innovative strategies (water, sewer, and/or stormwater) that provide sufficient revenues to maintain a high level of service while promoting water conservation and efficiency, and
- Identify and plan measures to ensure sustainable, adequate water supply to meet current and predicted long-term population, environmental and economic needs.

Vision and Goals

Discussion:

- Have any new major water issues developed in the region?
- Has your vision for this region regarding water resources changed substantially over the last 5 years?
- Are there any emerging issues on the planning horizon that would warrant changing your goals for the region?
- If answers are substantively no, revisions to your Vision and Goals may not be necessary.

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Georgia's

State Water Plan

Memorandum of Agreement
Operating Procedures
Meeting Rules
Public Involvement Plan

www.georgiawaterplanning.org

Council Responsibilities and Operations

Documents to:

- Guide Council deliberations
- Provide common approaches across councils
- Support Council development of adoptable and implementable plan

1. Memorandum of Agreement (MOA)
   a. Operating Procedures
   b. Rules for Meetings
2. Public Involvement Plan

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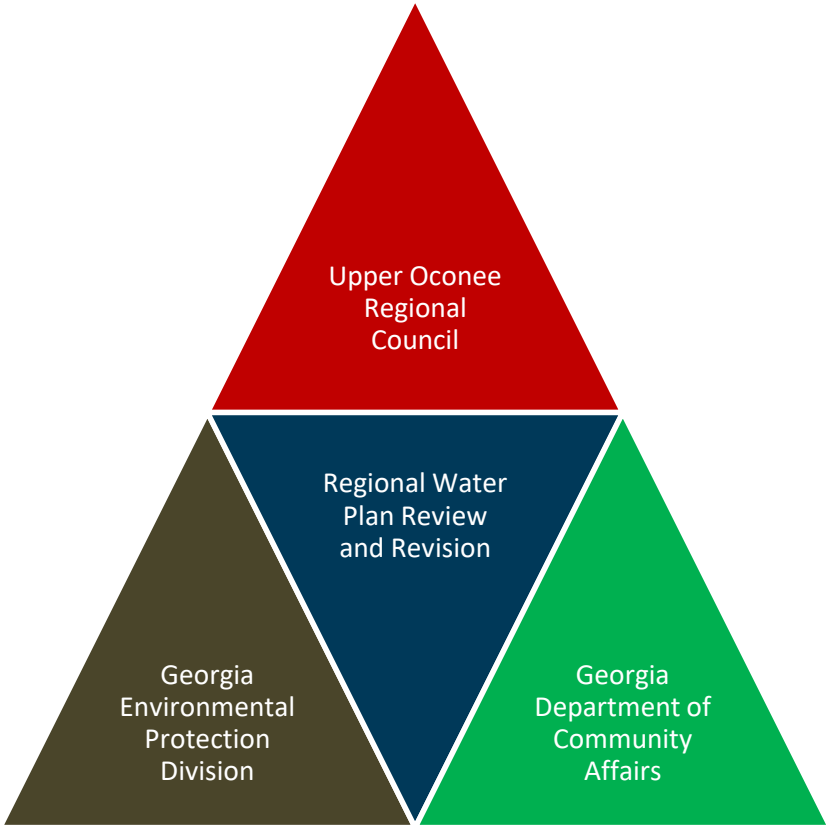
Memorandum of Agreement

- Defines Georgia EPD, Georgia Department of Community Affairs (DCA) and Water Planning Council responsibilities
- Establishes operating procedures, goals and objectives to govern actions and decisions for the Council



Memorandum of Agreement

Georgia's
State Water Plan

Upper Oconee Regional
Water Planning Council

Council Responsibilities:

- Submit drafts and final recommended plan to Director
- Identify management practices for the plan using provided data
- Adopt and follow operating procedures and rules for meetings
- Provide regional forum for local governments (inside and outside region) and coordinate with other Regional Councils
- Conduct open meetings and receive public comments in accordance with adopted Public Involvement Plan

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Memorandum of Agreement

EPD Responsibilities:

- Provide a Planning Contractor to assist the Regional Council
- Provide technical and planning guidance
- Provide information on water quantity capacity and assimilative capacity, water use and forecasts, and status of the region's waters
- Coordinate planning across regions
- Provide public notice on the draft plan
- Review drafts of the plan and provide feedback
- Adopt final complete and consistent plan

Memorandum of Agreement

DCA Responsibilities:

- Provide information to identify inconsistencies between draft Plans and local and regional comprehensive plans
- Assist in developing a timeline for resolving inconsistencies
- Provide for Regional Council review and comment on local or regional comprehensive plans as they become due

Operating Procedures

- Decision Making
  - Councils aim for consensus, may vote for decisions
- Meetings and Governance
  - Meetings are open,
  - Noticed must be posted (Gov Delivery)
  - Meeting summaries recorded and distributed
- Amendments
  - Operating Procedures may be updated or altered for review and revision process, if necessary

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Rules for Meetings

- Communications:
  - One person at a time, limit sidebars conversations
  - Stay on agenda items
  - Open-minded and seek a better understanding of different interests and perspectives and try to find common ground.
- Decision-making:
  - Discussion
  - Consensus: "Who can't live with this agreement or course of action as modified to meet the all of the interests expressed so far?"
  - Modifications
  - Voting (if necessary) or additional study/modifications via subcommittee

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Public Involvement Plan

- Maintains transparency of the planning process
- Seeks input from key stakeholders
- Establishes communications with neighboring councils
- Includes mechanisms for public comments

Public Involvement Plan

Procedural criteria

- Open meetings
- Public comment periods (Comments should pertain to topic(s) of meeting)
- 3 minutes per speaker
- Provisions for written comments

Meeting Announcements

- Posted on e-Gov Delivery system at least two weeks prior to meetings
- Agendas and meeting summaries will be distributed

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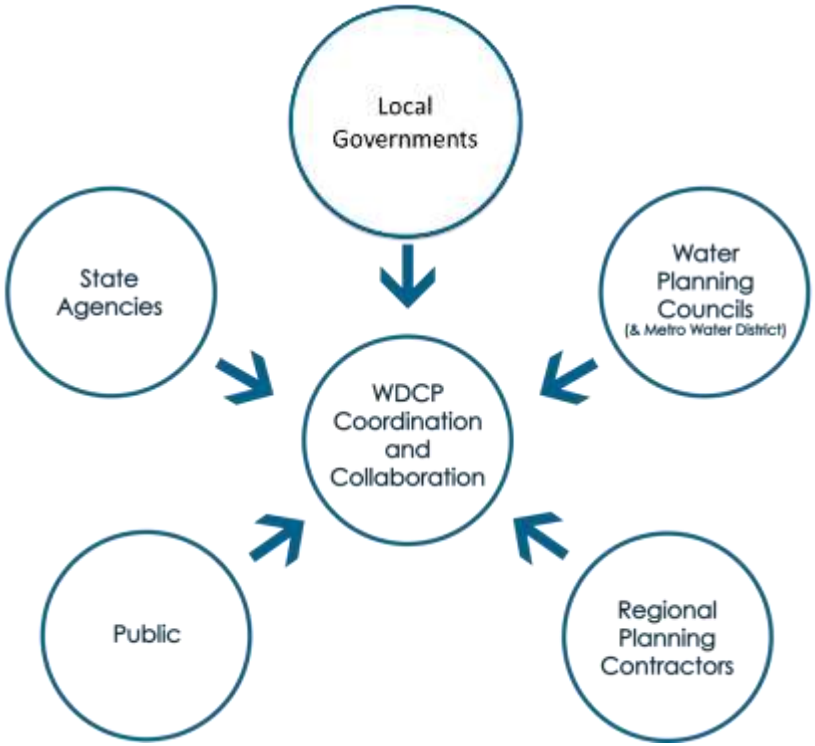
Council Responsibilities and Operations



Questions and Discussion?

Georgia's

State Water Plan

Updated Population Projections

www.georgiawaterplanning.org

Updated Population Projections

- State and County population projections are prepared by the Governor's Office of Planning and Budget (OPB). https://opb.georgia.gov/

- These projections are used throughout the State for multiple purposes: Transportation Planning, Education Funding Allocation, and other Publicly Funded Projects.

- Updated population projections will be used in Regional Water Planning.

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Updated Population Projections

Population Projections Calculations:

Future Population =

Base Year Population + Births - Deaths + Net Migration

While the population projection <u>model</u> has remained the same, the <u>data inputs</u> have changed based on new/updated information.

Updated Population Projections

Updated Data Inputs

Base Year Population

Census Bureau Vintage 2013 Population Estimates (Age x Sex)

Births

GA Dept. of Public Health Fertility Rates 2008-2012 (Age x Sex)

Deaths

GA Dept. of Public Health Survival Rates 2008-2012 (Age x Sex)

Net Migration

Census Bureau Annual Population Estimates & Change Components 1990-2014

- County Net Migration: 2006-2014

American Community Survey 2006-2010

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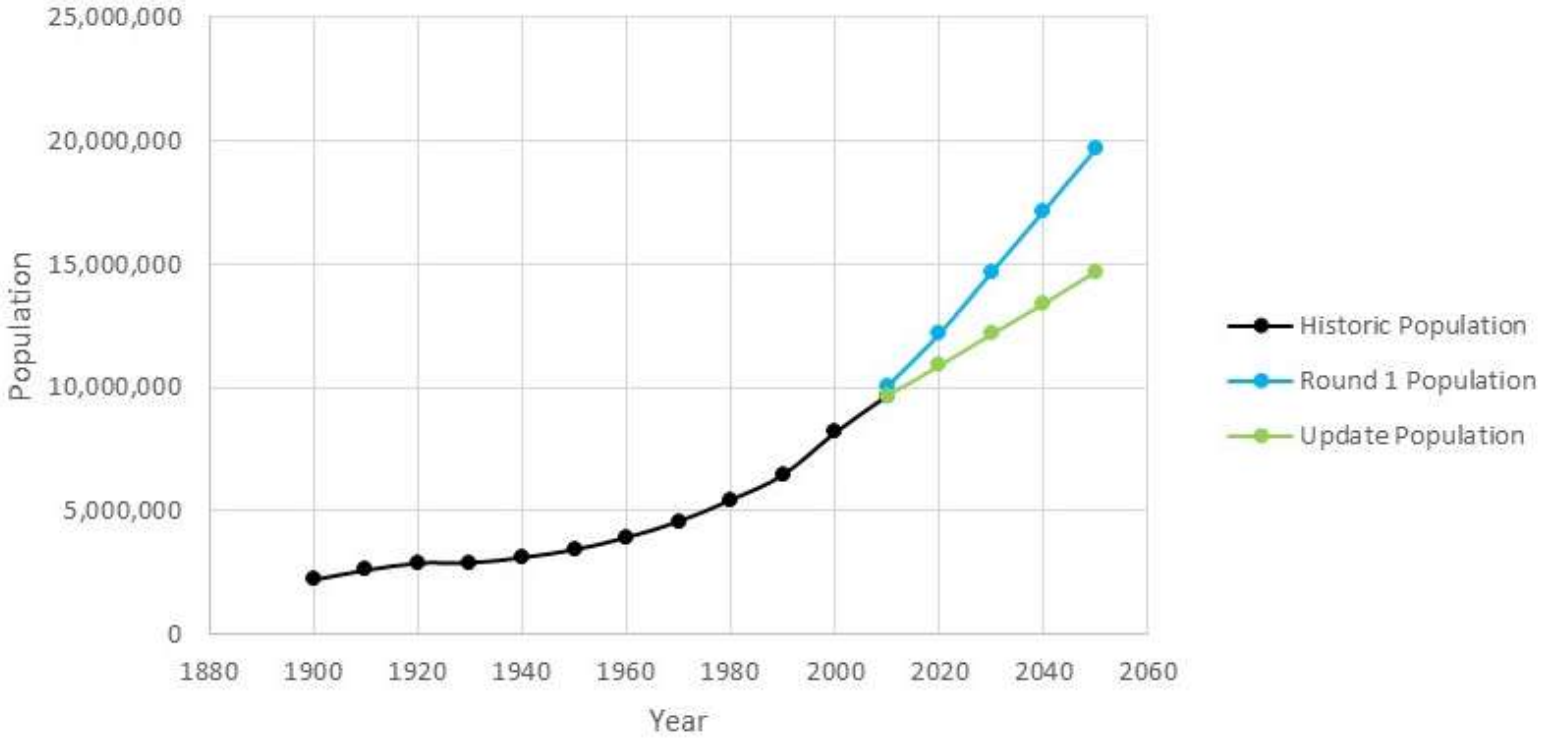
Georgia's Historic Population Growth and Projections

Overall projected growth of the state population is slower than estimated in Round 1 Projections

Statewide Annual Growth Rate

Round 1: 1.69% Update : 1.05%



Georgia continues to grow, but current population projections are more in line with historic trends

Concentrated Growth 50% of Georgia's population growth from 2010-2013 occurred in Fulton, Gwinnett, and Cobb Counties

Migration Patterns In migration of people that are retirees and/or have associated low birth rates and tend to experience declining or flat population projections

Rural Counties Since the 2010 Census, approximately half of Georgia's counties have experienced a decline in population and those are primarily rural counties

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Updated Population Projections

This update and future revisions are needed to appropriately plan for Georgia's water needs.

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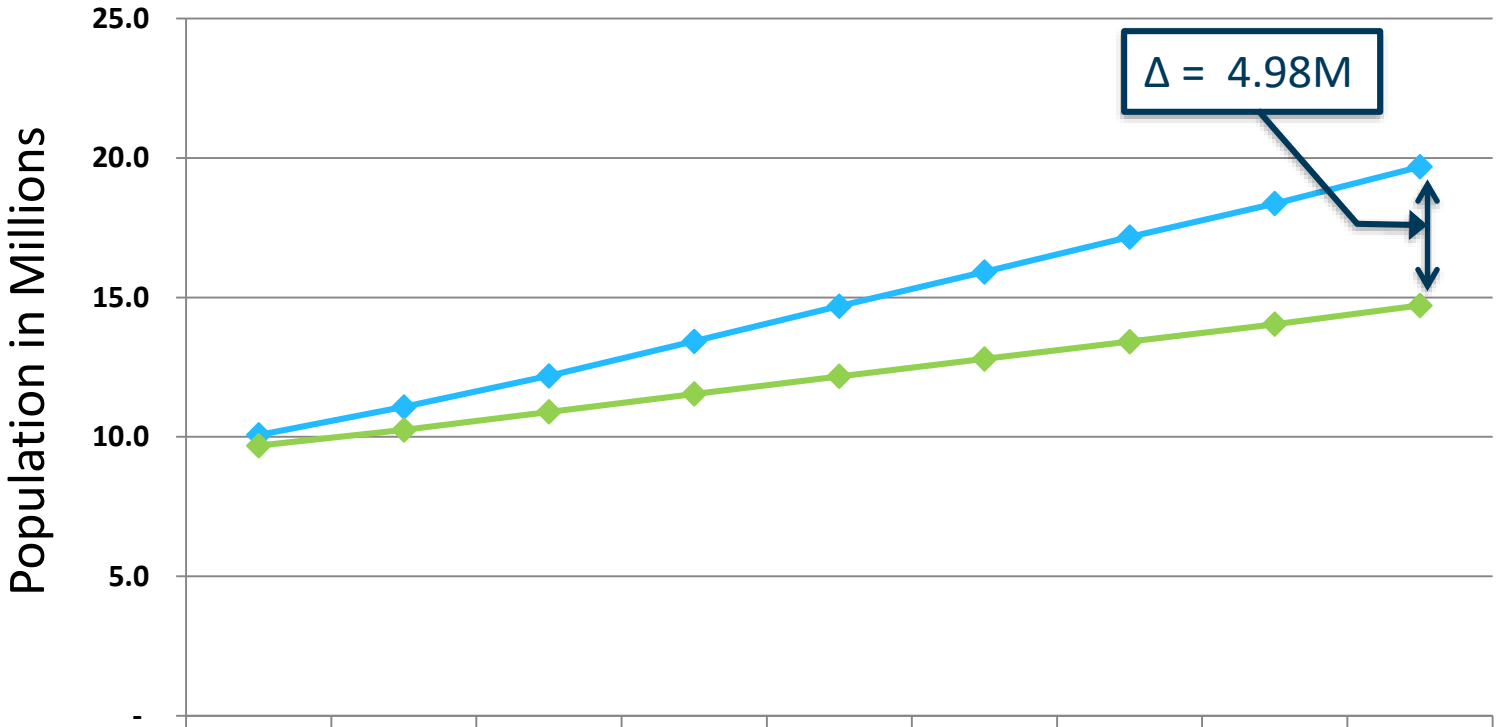
State Population Projections



	2010	2015	2020	2025	2030	2035	2040	2045	2050
Round 1	10.07	11.08	12.19	13.43	14.69	15.91	17.17	18.37	19.69
Update	9.69	10.25	10.90	11.54	12.17	12.80	13.41	14.04	14.71

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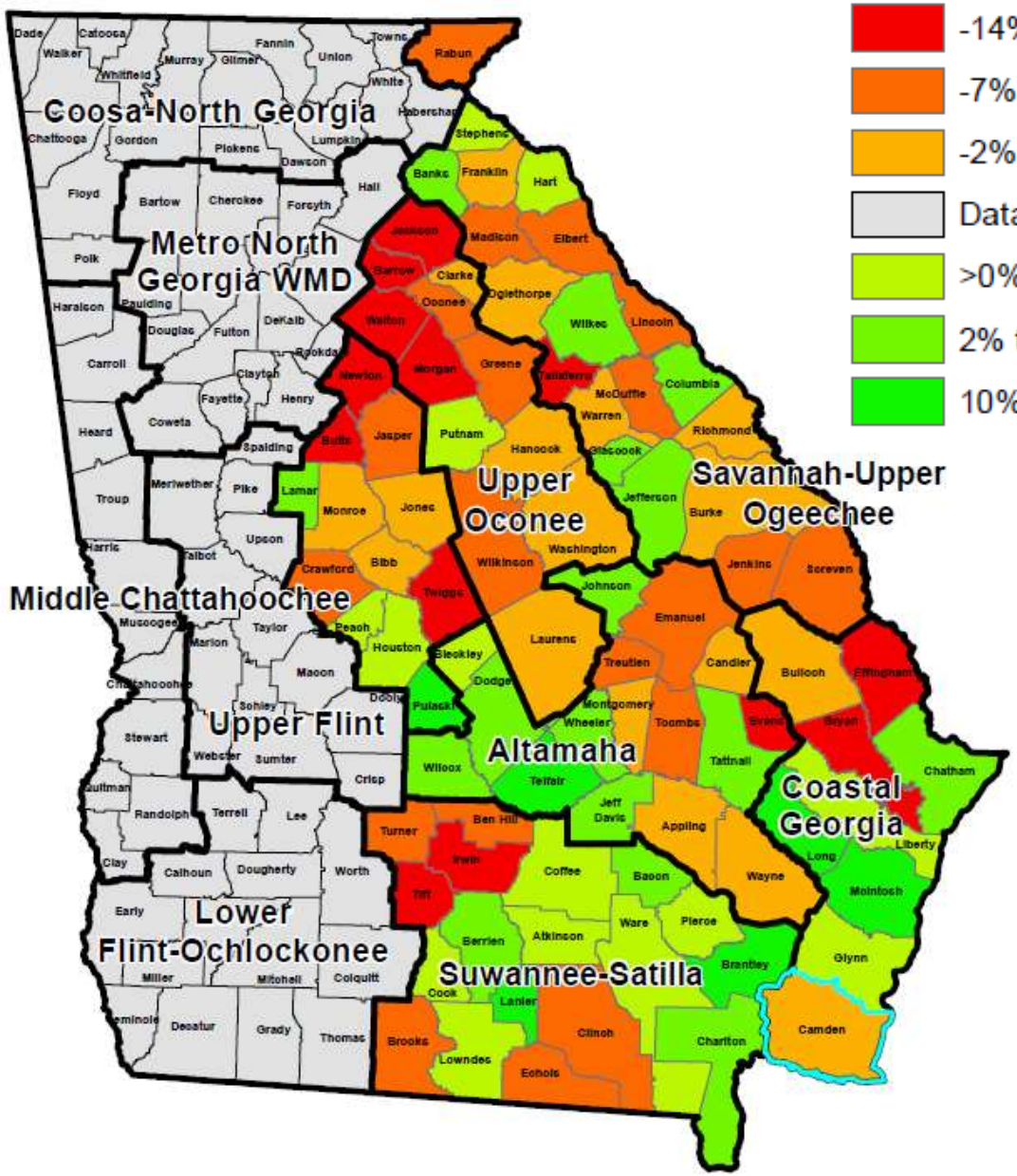
Georgia 2010 Population Projection Change



-14% to -7%

-7% to -2%

-2% to <0%

Data Unavailable

>0% to 2%

2% to 10%

10% to 22%

Round 1 Projections >> 2010 Census

Round 1 Projections << 2010 Census

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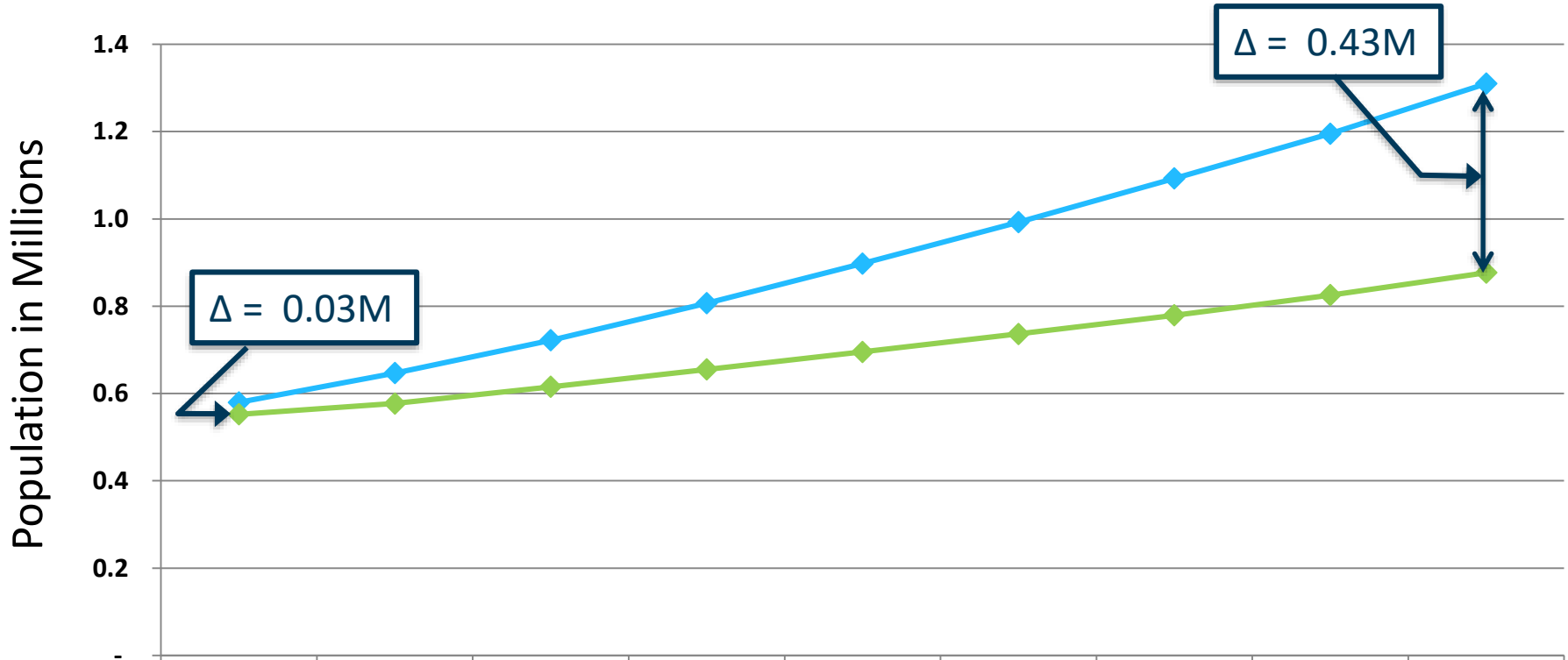
Upper Oconee Population Projections



	2010	2015	2020	2025	2030	2035	2040	2045	2050
Round 1	0.58	0.65	0.72	0.81	0.90	0.99	1.09	1.20	1.31
Update	0.55	0.58	0.62	0.66	0.70	0.74	0.78	0.83	0.88

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Questions & Discussion

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