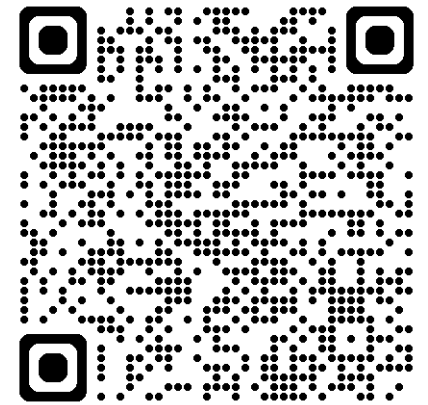


Metropolitan North Georgia Water Planning District: Executive Committee Meeting

Wednesday, September 9, 2026



Please visit

<http://www.northgeorgiawater.org/meetingmaterials/>



Welcome



The logo of the Metropolitan North Georgia Water Planning District is a circular emblem. It features a light blue water droplet in the center, surrounded by a circular band containing the text "Metropolitan North Georgia Water Planning District". Below the circle is a light green circle with the number "25" inside, flanked by two light blue banners that read "SINCE" and "2001".

Approve Meeting Minutes

SINCE

25

2001

Recommended Motion

To adopt the June 3, 2026, Executive Committee Meeting minutes

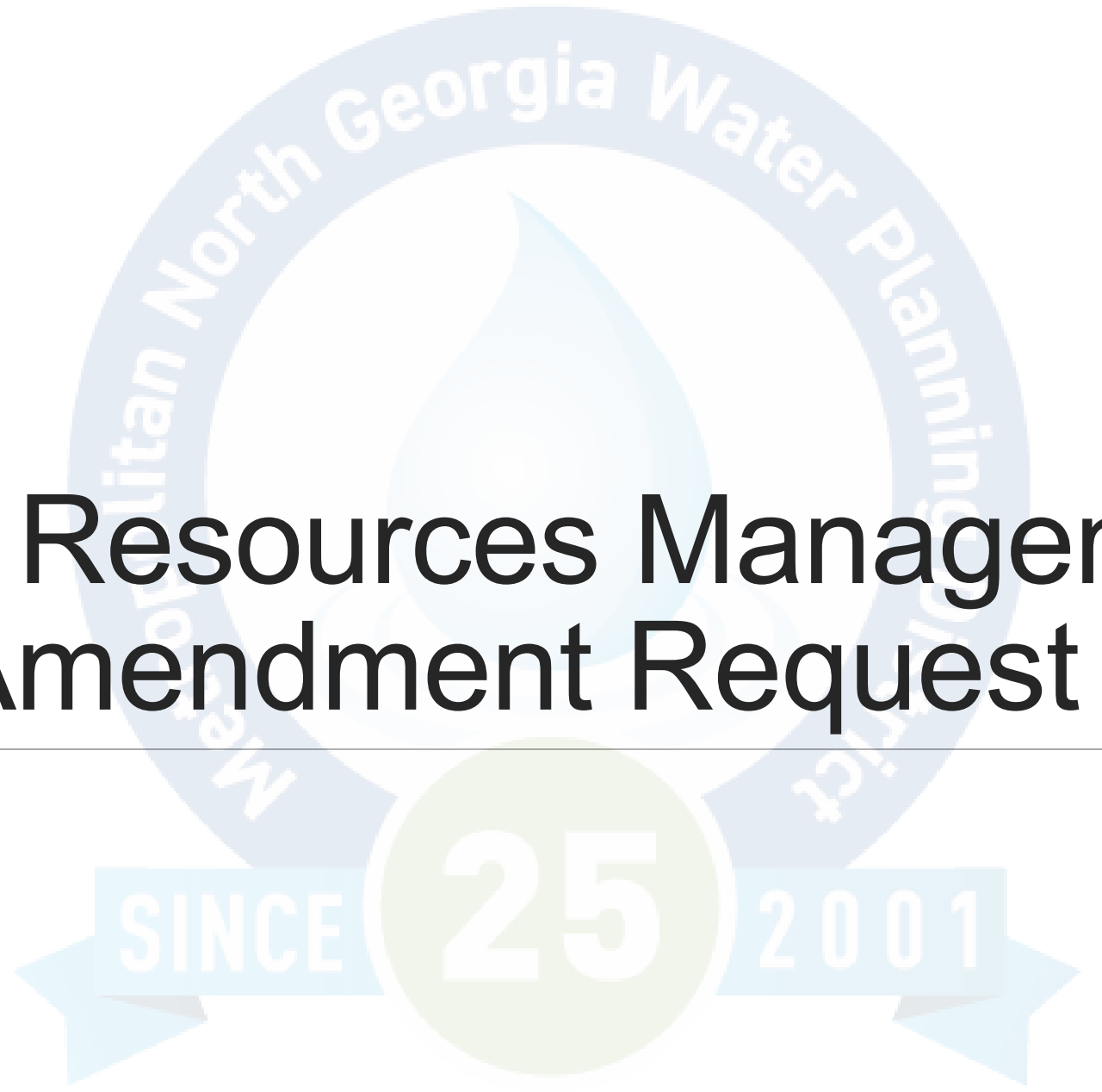


The logo for the Metropolitan North Georgia Water Planning District's 25th anniversary is centered in the background. It features a large, light blue circular emblem with a stylized water droplet in the center. The text "Metropolitan North Georgia Water Planning District" is written in a light blue, sans-serif font along the top arc of the circle. At the bottom of the circle, a light blue ribbon banner contains the text "SINCE 25 2001", where "25" is significantly larger and set within a light green circular background.

BAC New Member Approval

Recommended Motion

To approve the membership of 10 BAC applicants.

The logo of the Metropolitan North Georgia Water Planning District is a circular emblem. It features a light blue water droplet in the center. The words "Metropolitan North Georgia Water Planning District" are written in a light blue arc around the top of the circle. At the bottom, there is a light green circle containing the number "25", flanked by two light blue banners that read "SINCE" and "2001".

Water Resources Management Plan Amendment Request

SINCE

25

2001

Amendment Request for Consideration

City of Senoia– Water Supply and Facility Phasing Plan Expansion for an additional peak day capacity of 1.5 MGD in the Line Creek Watershed within the Flint River Basin along with the decommissioning of two ground water wells.

Recommended Motion

To adopt the City of Senoia request to amend the 2022 Water Resources Plan.

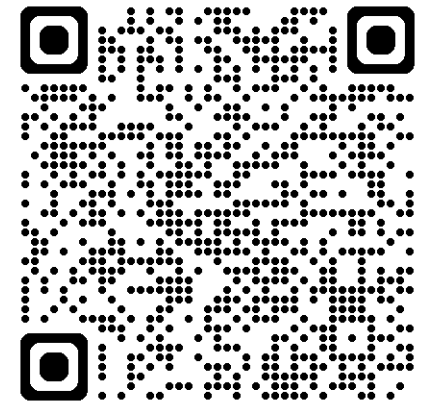




Adjourn

Metropolitan North Georgia Water Planning District: Governing Board Meeting

Wednesday, September 9, 2026



Please visit

<http://www.northgeorgiawater.org/meetingmaterials/>



Welcome



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Public Comment Period

SINCE

25

2001

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Approve Meeting Minutes

Recommended Motion

To adopt the June 3, 2026, Governing Board Meeting minutes



The logo for the Metropolitan North Georgia Water Planning District's 25th anniversary is centered in the background. It features a large, light blue water droplet shape. A circular band around the droplet contains the text "Metropolitan North Georgia Water Planning District" in a light blue, sans-serif font. Below the droplet, a green circle contains the number "25" in white. Flanking the green circle are two light blue banners; the left one says "SINCE" and the right one says "2001", both in white, sans-serif capital letters.

Chairwoman's Report



25th Anniversary Breakfast

August 11, 2026

Chattahoochee Nature Center Pavilion







Takeaways from the June 2026 Board Retreat



Future Meeting Dates

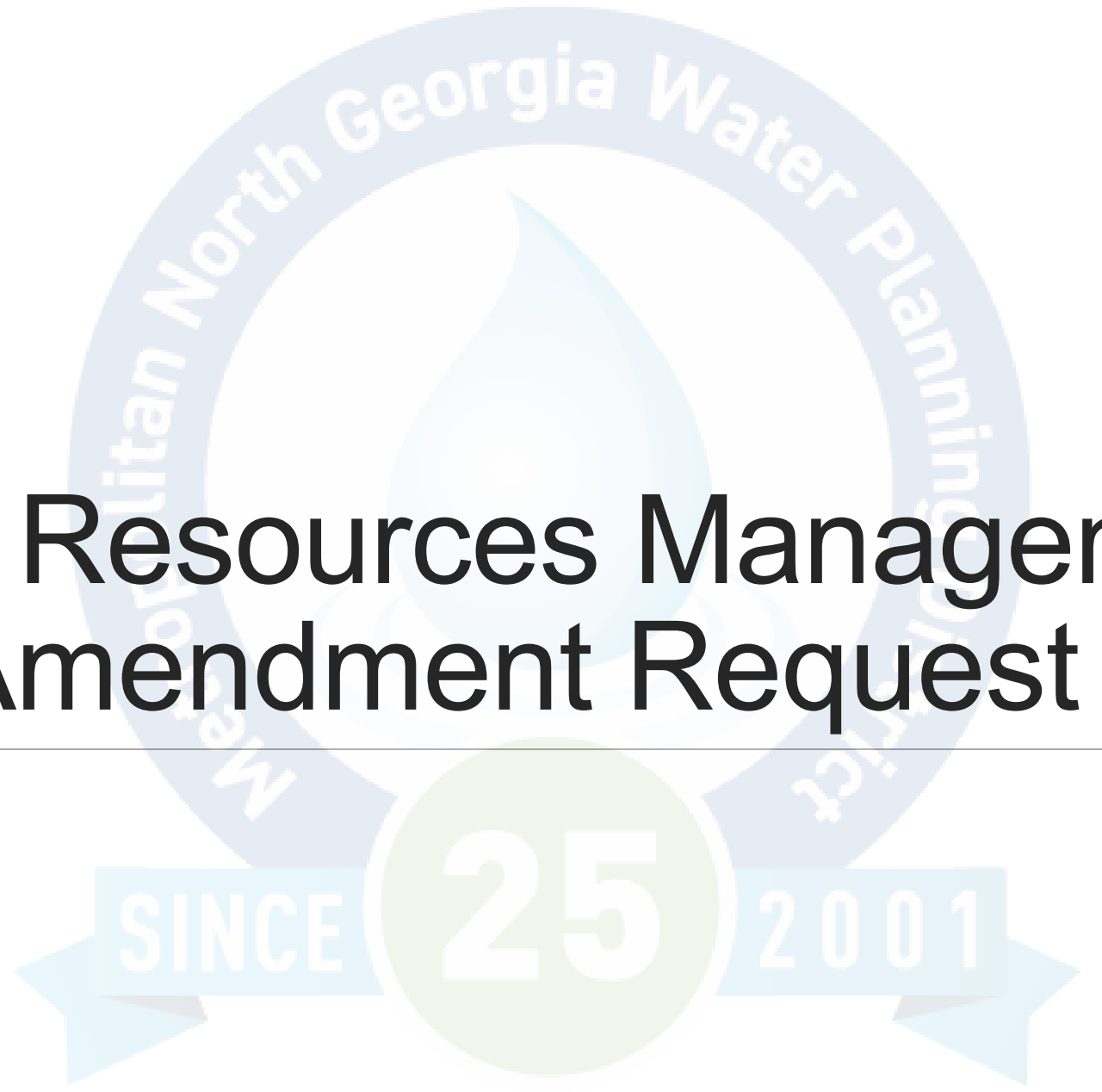
- 2026 Executive Committee and Governing Board
 - Wednesday, December 9th
- 2027 Executive Committee and Board Meeting (tentative)
 - Wednesday, March 10th
 - June (*Date and Location TBD*)
 - September 8th
 - December 8th
- 2026 Basin Advisory Councils
 - Wednesday, October 14th – Chattahoochee, Coosa, Lanier
 - Tuesday, October 20th – Ocmulgee, Oconee, Flint
- 2026 Technical Coordinating Committee
 - Wednesday, November 4th
 - Watershed: 10AM – 12PM
 - Water Supply/ Wastewater: 1 – 3PM

Executive Committee Report



The logo for the Metropolitan North Georgia Water Planning District's 25th anniversary is centered in the background. It features a large, light blue circular emblem with a stylized water droplet in the center. The text "Metropolitan North Georgia Water Planning District" is written in a light blue, sans-serif font along the top inner edge of the circle. At the bottom of the circle, a light blue banner contains the text "SINCE 25 2001" in white, bold, sans-serif capital letters. The number "25" is significantly larger than the other text in the banner.

BAC New Member Approval

The logo of the Metropolitan North Georgia Water Planning District is a circular emblem. It features a light blue water droplet in the center. The words "Metropolitan North Georgia Water Planning District" are written in a light blue arc around the droplet. At the bottom of the emblem, there is a light green circle containing the number "25", flanked by two light blue banners that read "SINCE" and "2001".

Water Resources Management Plan Amendment Request

SINCE

25

2001

Amendment Request for Consideration

City of Senoia– Water Supply and Facility Phasing Plan Expansion for an additional peak day capacity of 1.5 MGD in the Line Creek Watershed within the Flint River Basin along with the decommissioning of two ground water wells.

Recommended Motion

To adopt the City of Senoia request to amend the 2022 Water Resources Plan.



Staff Updates



Education and Outreach



Summer 2026 Drought Messaging



Comprehensive Digital
Media Package



PSA Billboard
Program

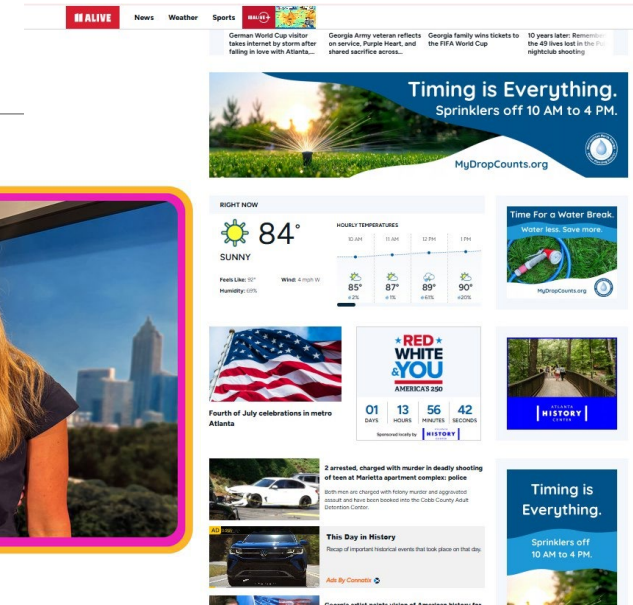


Complementary Meta
Campaign

Comprehensive Digital Media Package (TEGNA/11Alive)

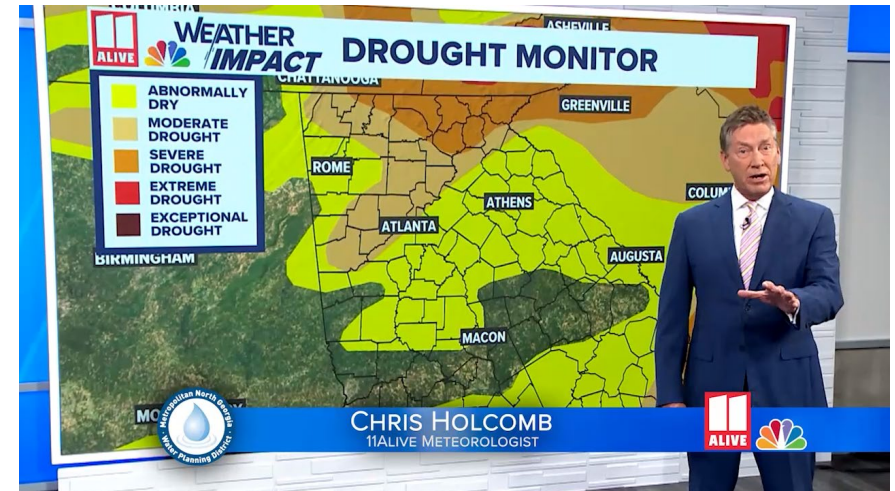
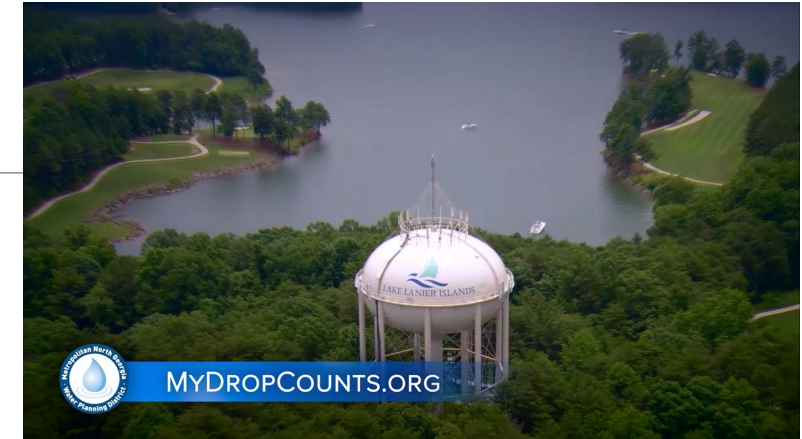
Campaign from June 29th through Sept. 30th includes:

- PSA for drought awareness
- Targeted streaming of PSAs
- Promotion of My Drop Counts pledge
- District staff to appear on-air: <https://bit.ly/4eEMT3X>
- District logo sponsorship of drought and/or weather tracking
- Focused week of tailored drought-related messaging



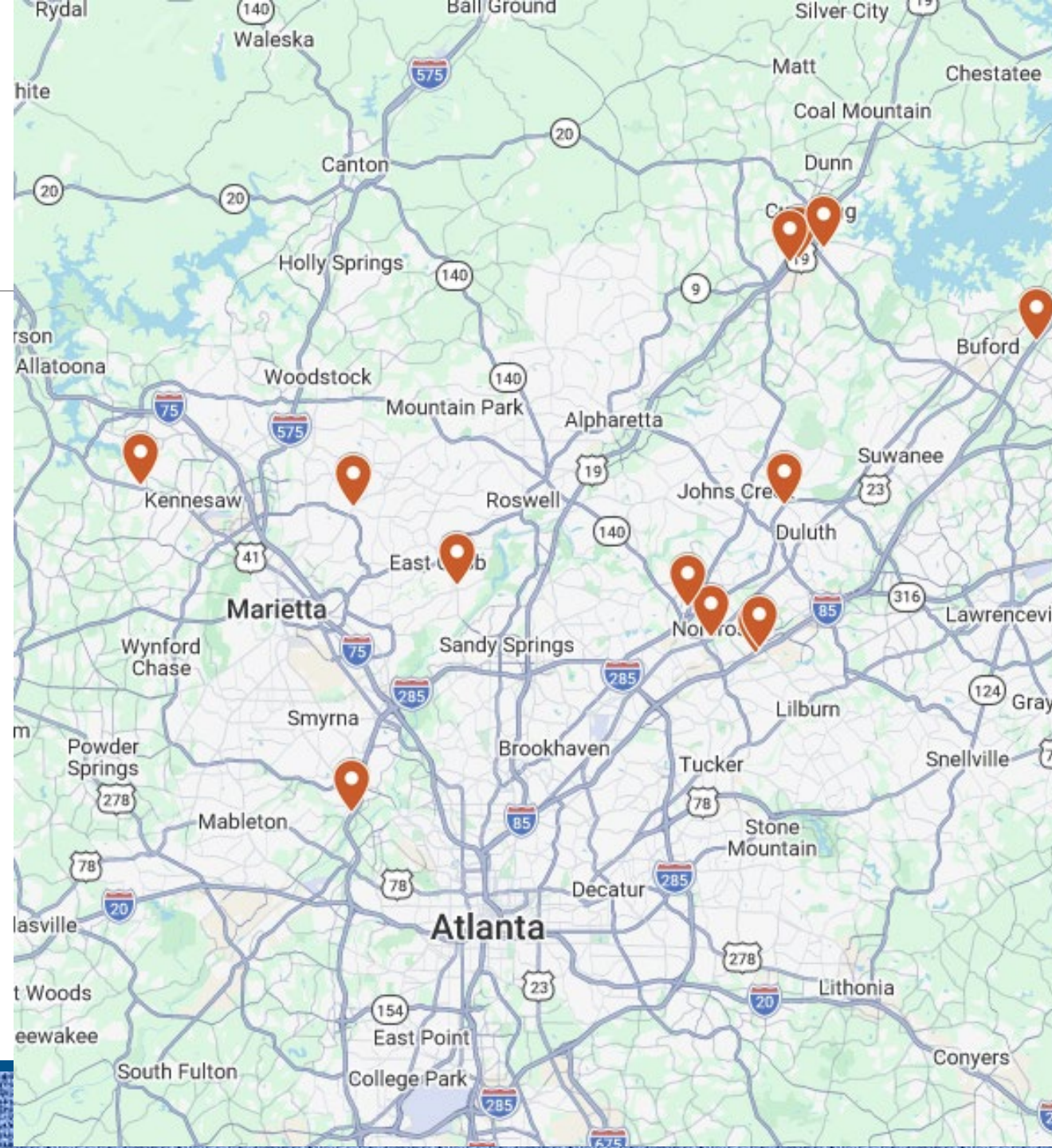
TEGNA Campaign Metrics

- Atlanta & Co. Interview – 25,000 impressions
- PSA and Commercial (ran 100+ times) – 1.45 million impressions
- 11Alive Homepage takeover (July 3) – 88,000 impressions
- 11Alive App & Streaming – 189,000 impressions
- **Cost: \$25,000**
- **Total Impressions (Aug. 31st): 1,727,857**



Clear Channel PSA Billboard Program

- July 27th through Sept. 20th
 - 13 billboards across north metro area
 - Locations: see map
-
- **Cost: \$9,000**
 - **Impressions (through Aug. 31st): 4,565,968**



Water Connects Us All.



Save water. Do your part.

MyDropCounts.org



Don't Let It Drip Away.



Fix leaks. Save water.

MyDropCounts.org



Timing is Everything.



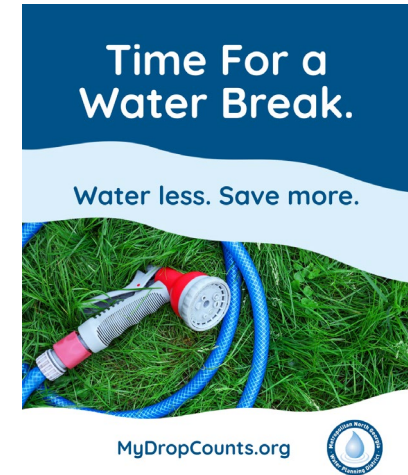
Sprinklers off 10 AM to 4 PM.

MyDropCounts.org



Meta Ads (Facebook and Instagram)

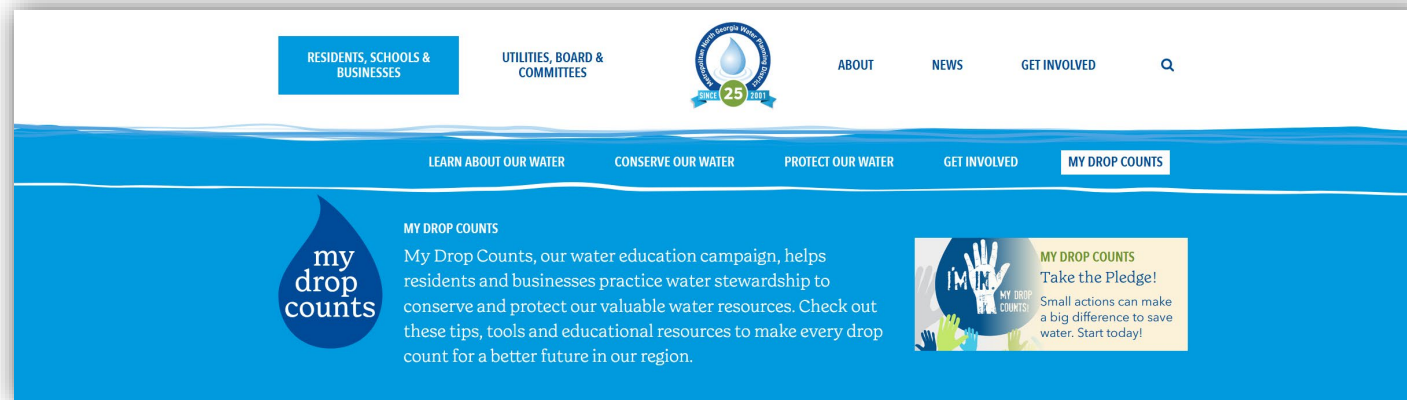
- Ads started July 17th, continue through Sept. 30th
- Running five ad visuals/messages
- **Total impressions: 874,953**
- **Total reach: 297,276**
- **Est. Cost: \$4,800**



Overall Impacts

- Visits to MyDropCounts.org increase 250%
- 70+ followers increase in July & August

Total Campaign Impressions: 7,168,778



2026 Middle School Essay Contest

“When in Drought”

1. Research droughts using the resources provided. You might consider interviewing someone who experienced the 2007 or 2016 drought, like a family member or employee of your local water utility. How do droughts effect metro Atlanta/ the north Georgia region, and what are some things we can do to work together to help during a drought?

Or

2. Use the resources below to answer the following questions. Why is water conservation especially important during a drought? How can you save water at home and at school?

Release Date: week of August 31st

Deadline: October 23rd



Water Supply



Drought Level 1 Still in Effect



Level 1 Drought Declared |
Environmental Protection Division

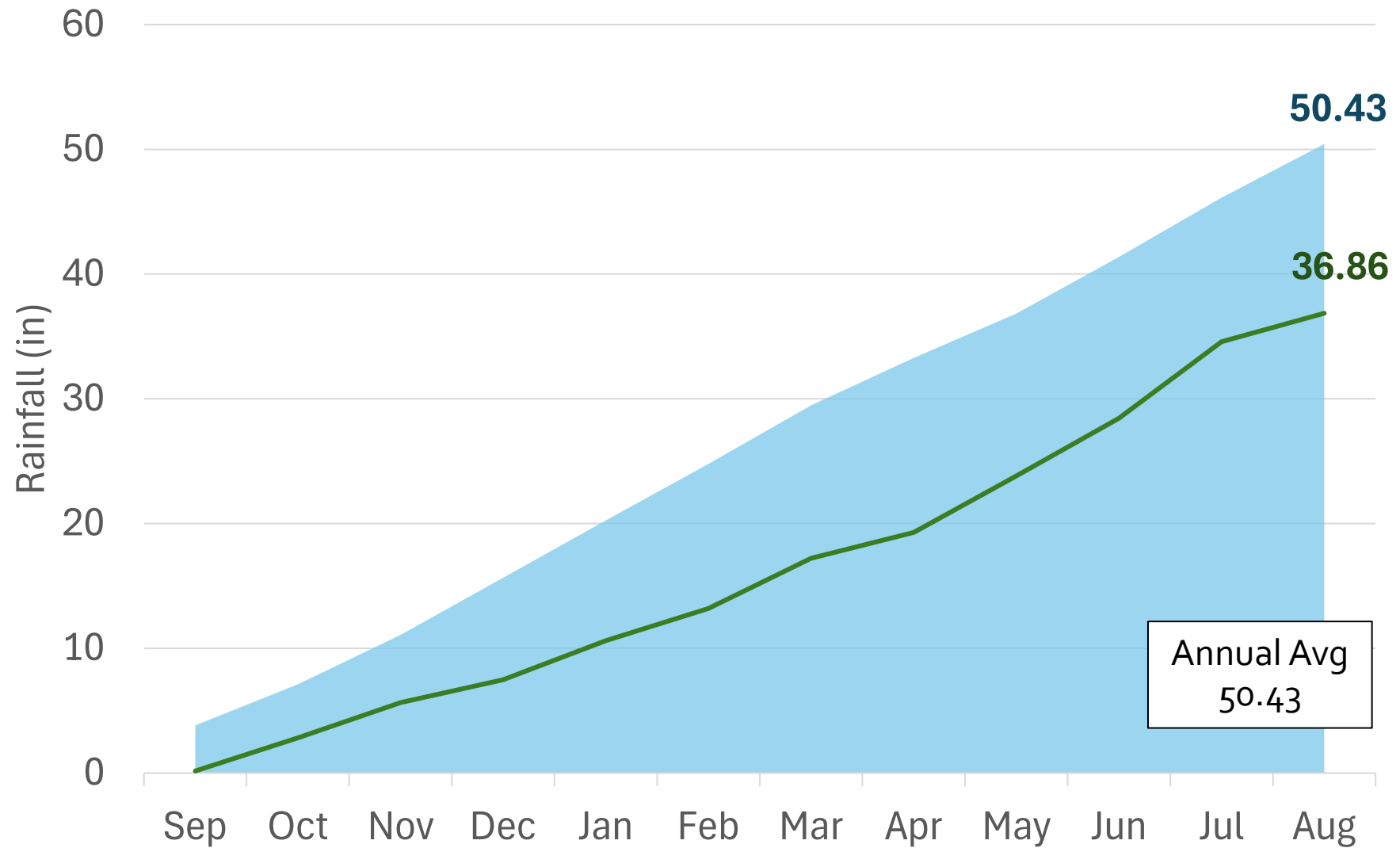
- Georgia EPD declared state-wide Drought Response Level 1 April 27th
- Consists of a public information campaign, with requirements for: public notice and drought specific public-service messaging
- District Resources
 - [Press Release](#)
 - [Current Drought Status](#) webpage
 - [Water Stats](#) webpage
 - Social media resources
 - [Printables & brochure resources](#)



Cumulative Rainfall at Atlanta Airport Sept 2025 – Aug 2026

 30-yr Avg Rainfall

 Actual Rainfall

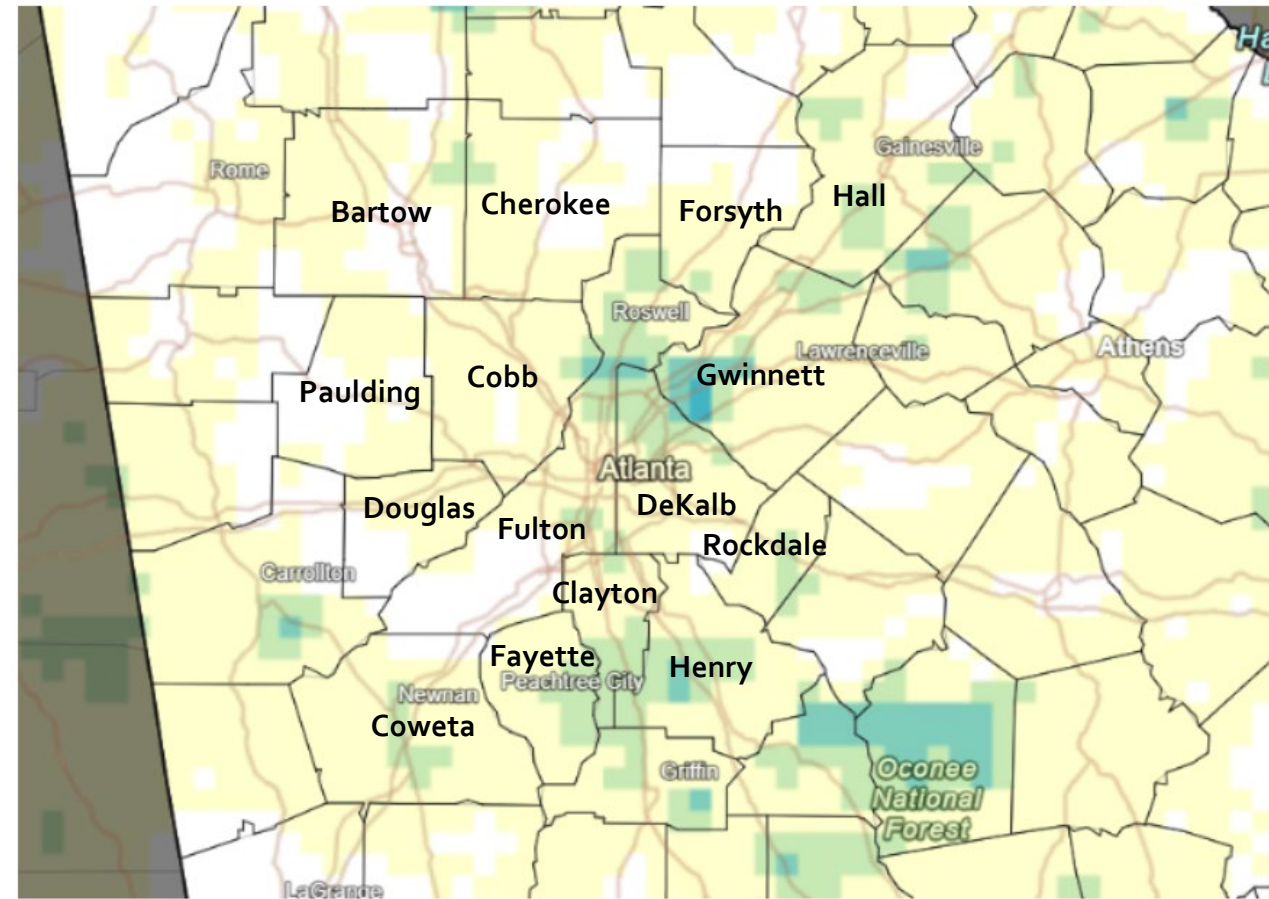


Source: https://www.weather.gov/ffc/rainfall_scorecard



7-Day Total Rainfall (in)

7-Day Total Precipitation (Inches)



Inches of Precipitation



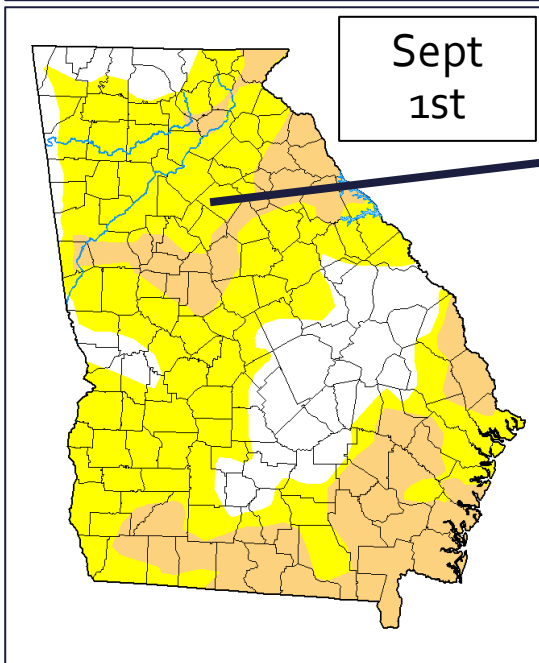
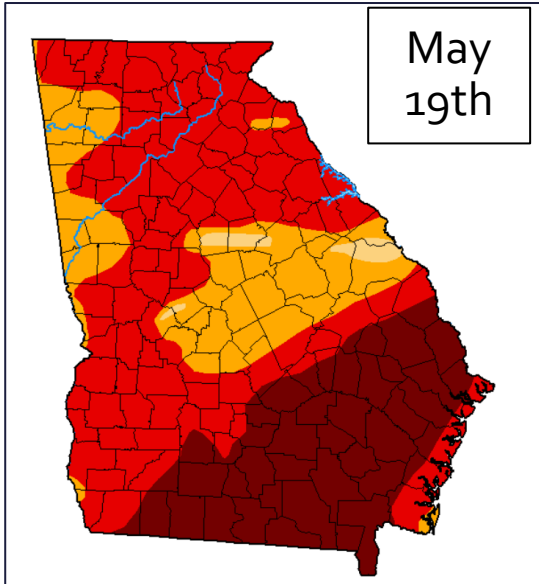
Source(s): UC Merced

Data Valid: 09/05/26

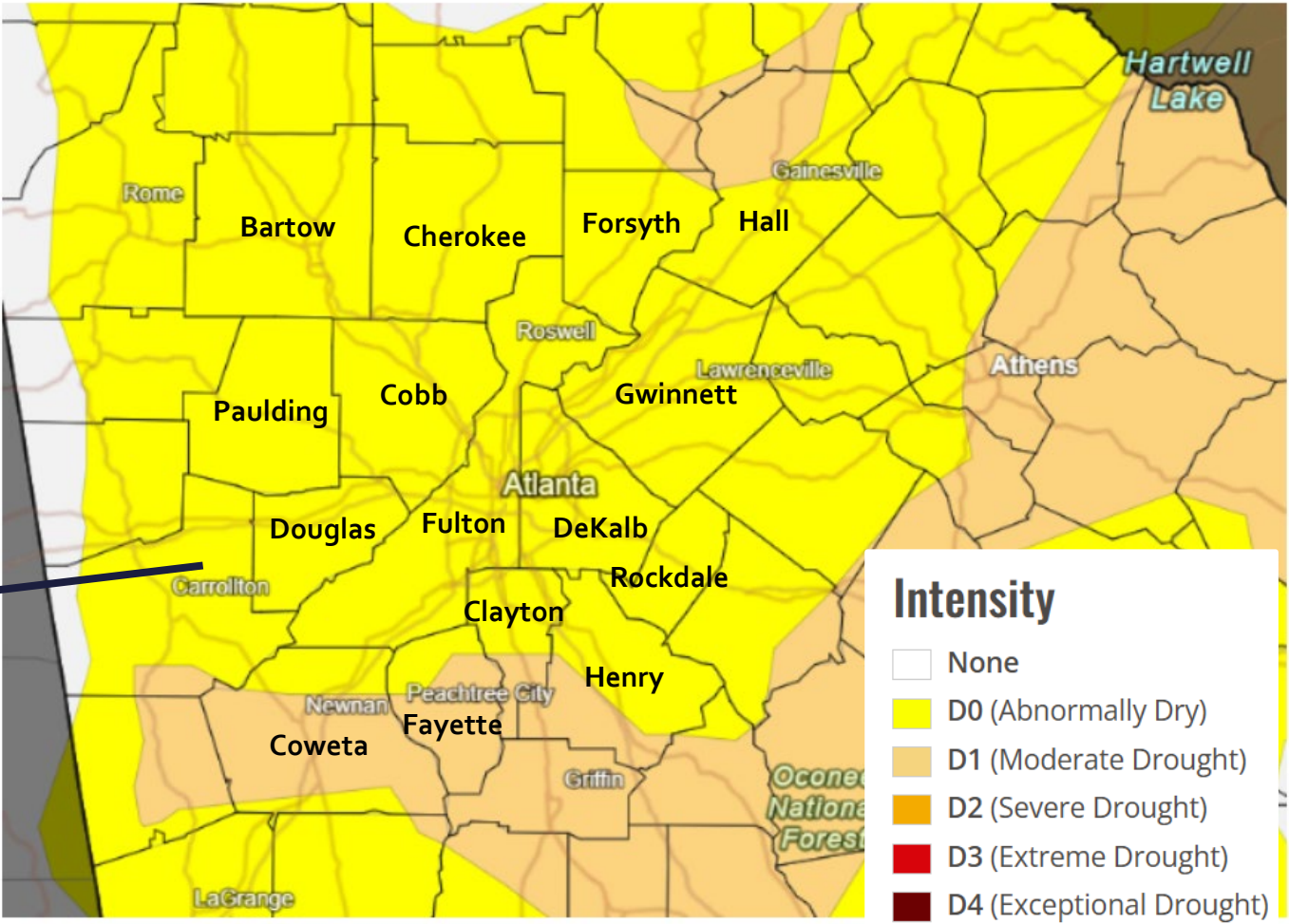
Drought.gov

Source: <https://www.drought.gov/states/georgia>





U.S. Drought Monitor: Georgia

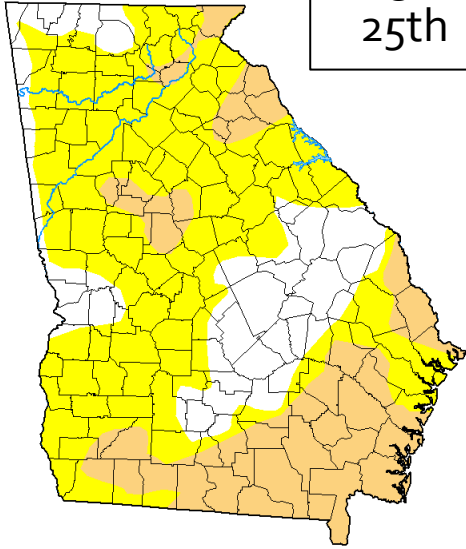


Source(s): NDMC, NOAA, USDA, NASA
Data Valid: 09/01/26

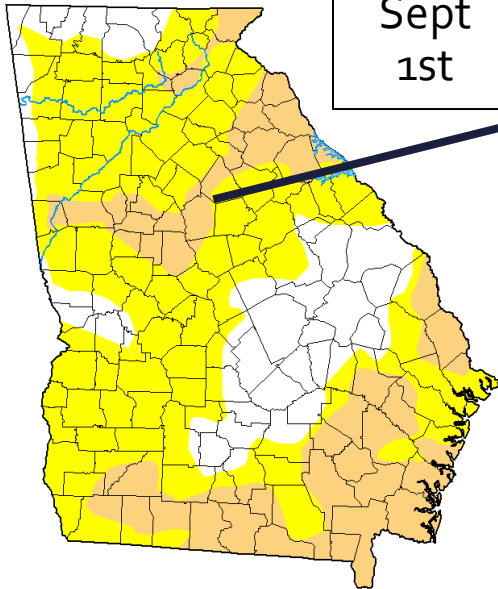
Drought.gov



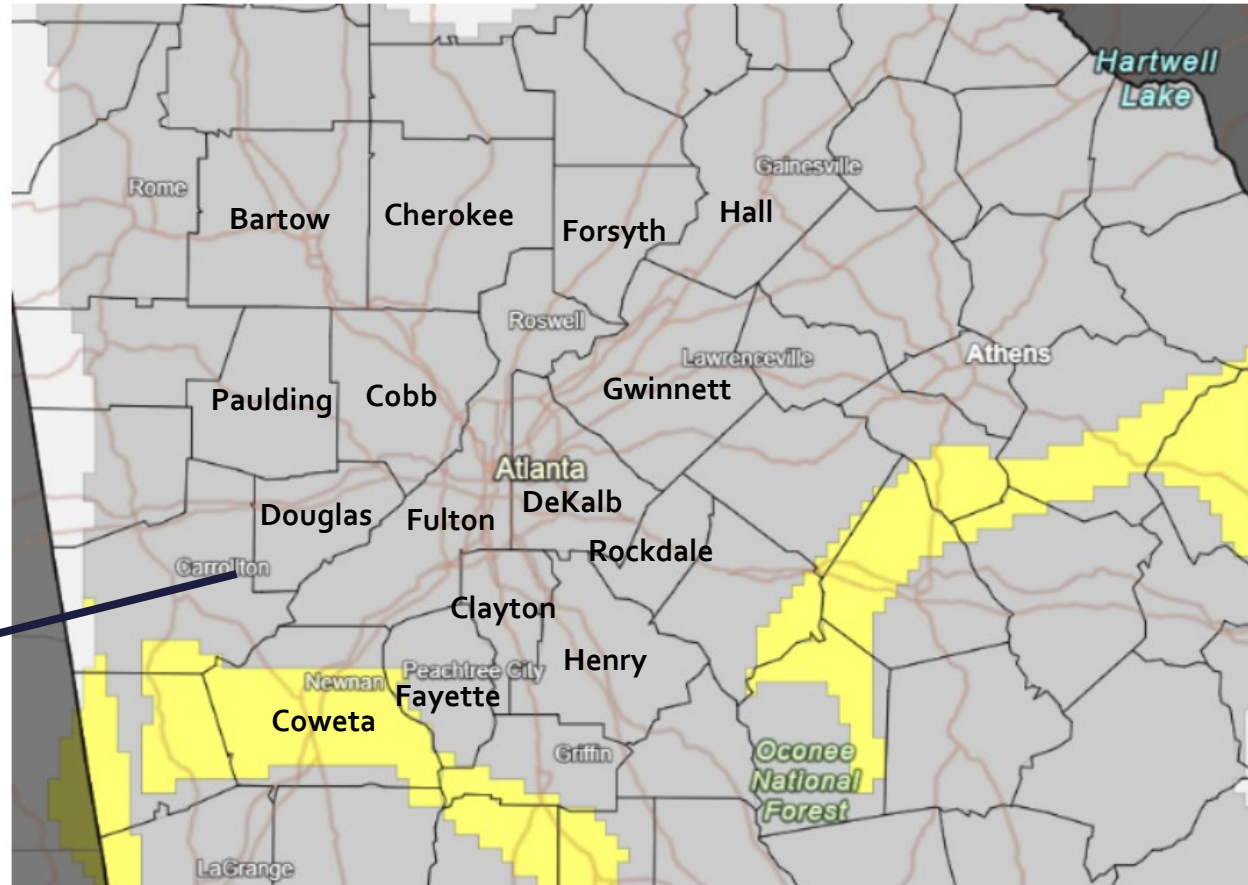
August
25th



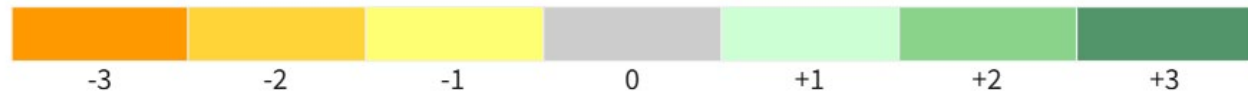
Sept
1st



U.S. Drought Monitor 1-Week Change Map



Drought Change Since Last Week



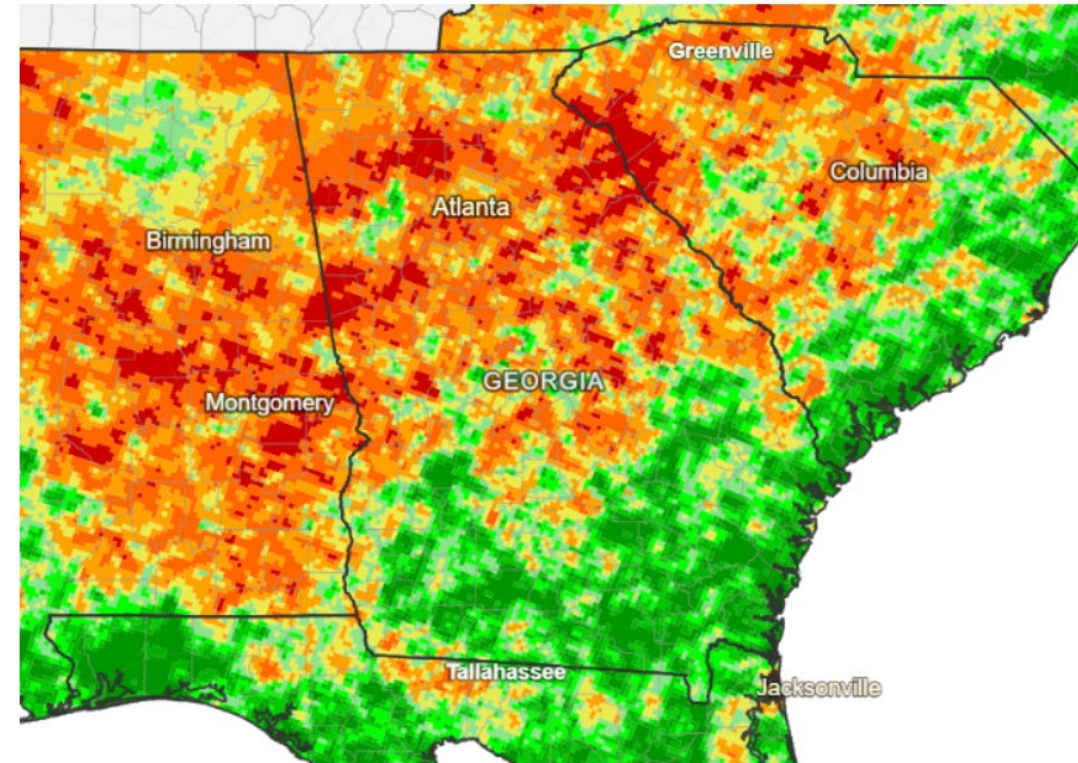
Source(s): NDMC, NOAA, USDA, NASA
Data Valid: 09/01/26

Drought.gov



Lawn & Garden Moisture Index

Lawn & Garden Moisture Index



Precipitation Deficit



Adequate or Surplus Precipitation



Source(s): Alabama Office of the State Climatologist
Data Valid: 09/02/26

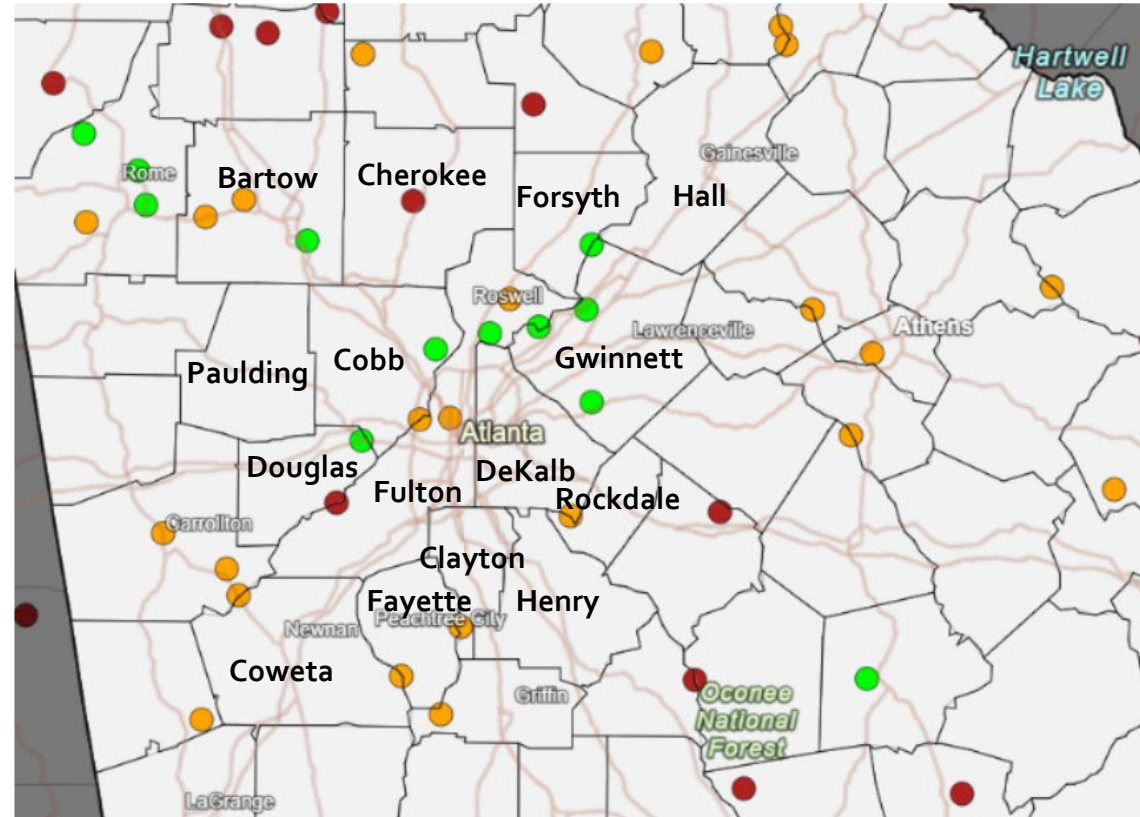
Drought.gov



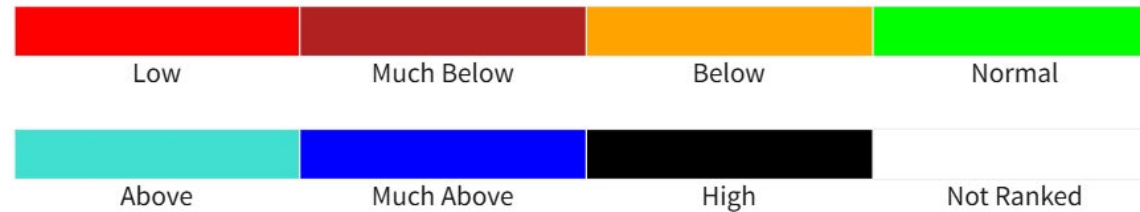
Source: <https://www.drought.gov/data-maps-tools/lawn-and-garden-moisture-index>

1-Day Avg Streamflow Conditions

1-Day Average Streamflow Conditions



Streamflow Conditions



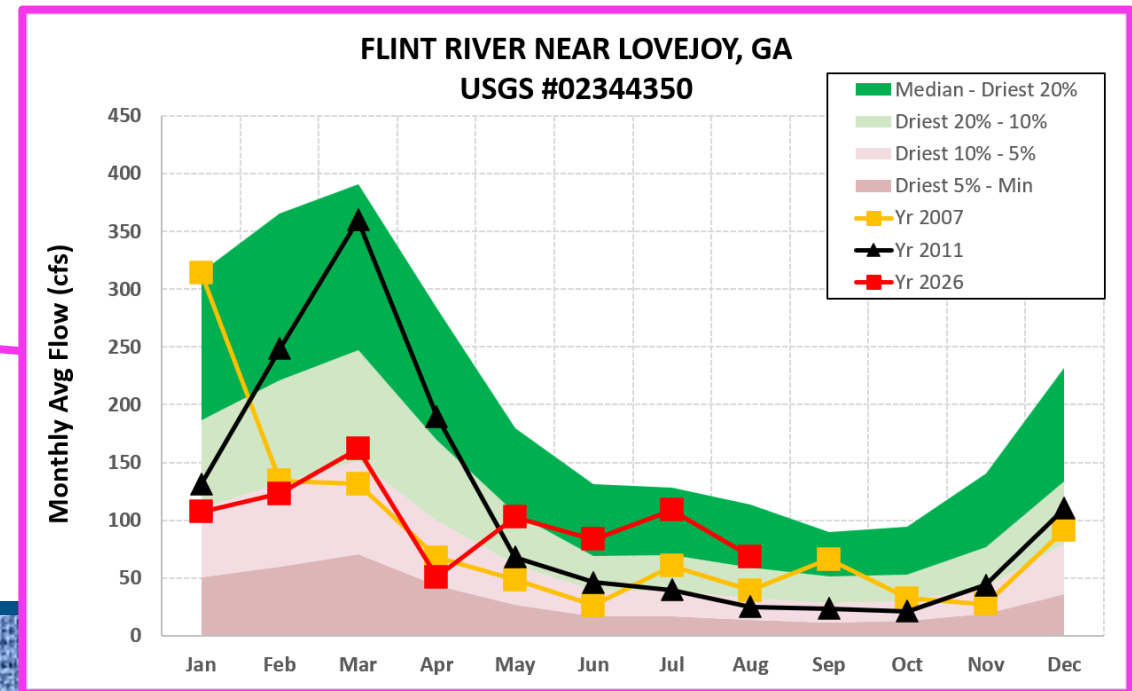
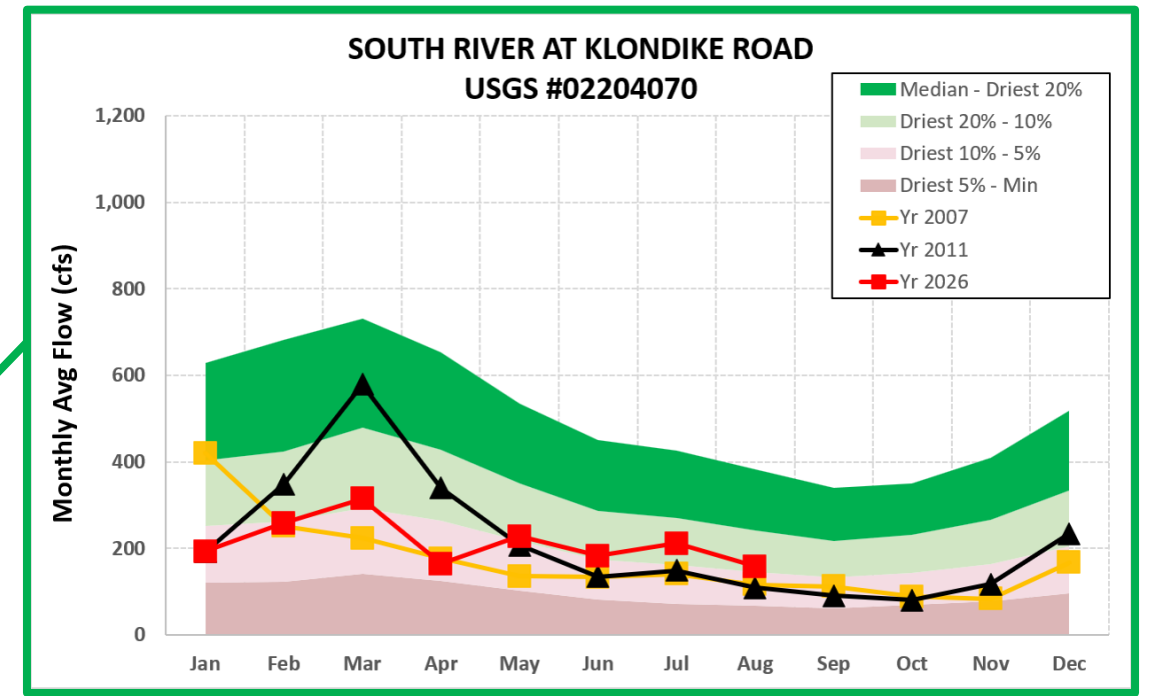
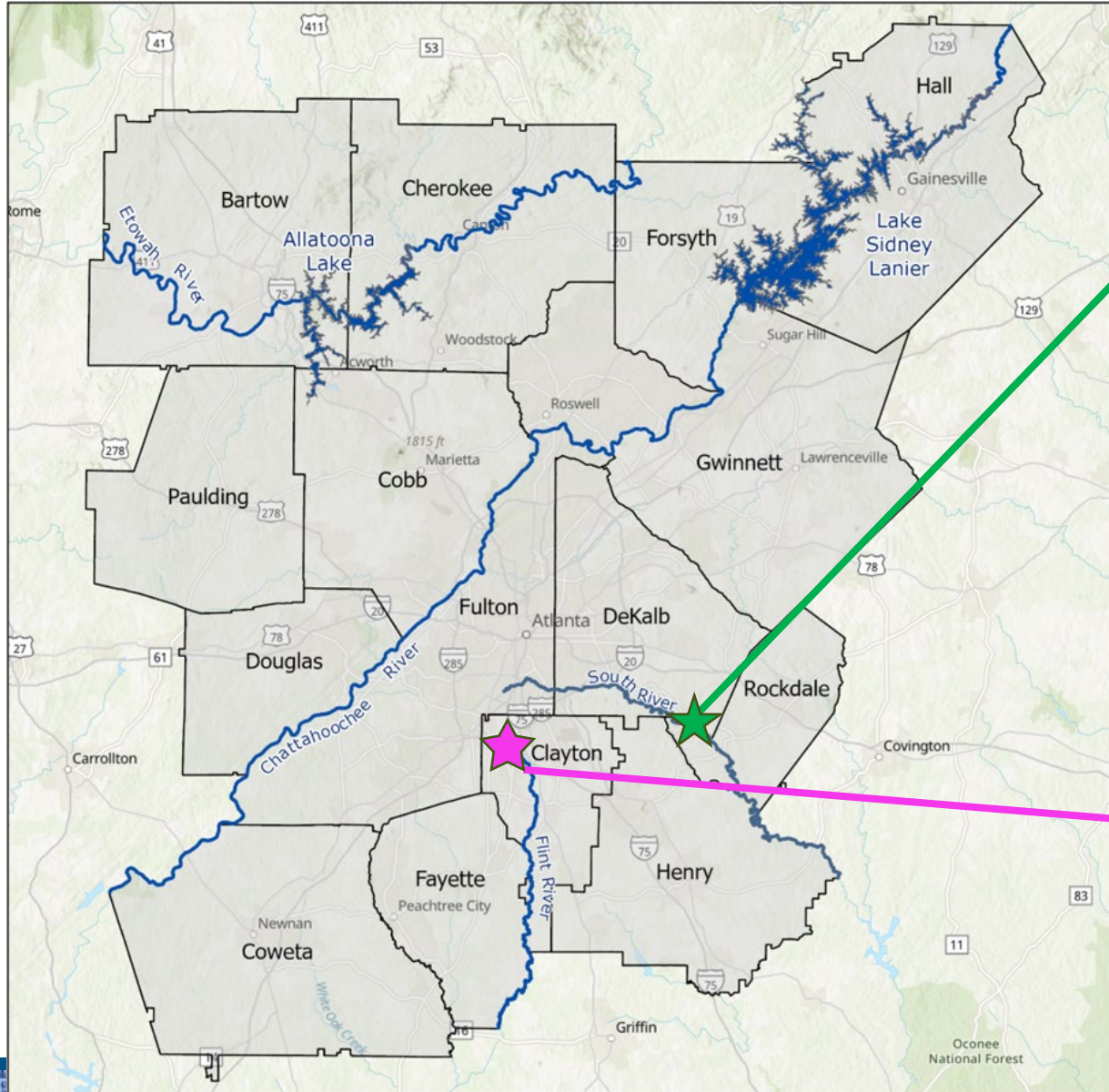
Source(s): U.S. Geological Survey
Data Valid: 09/02/26

Drought.gov

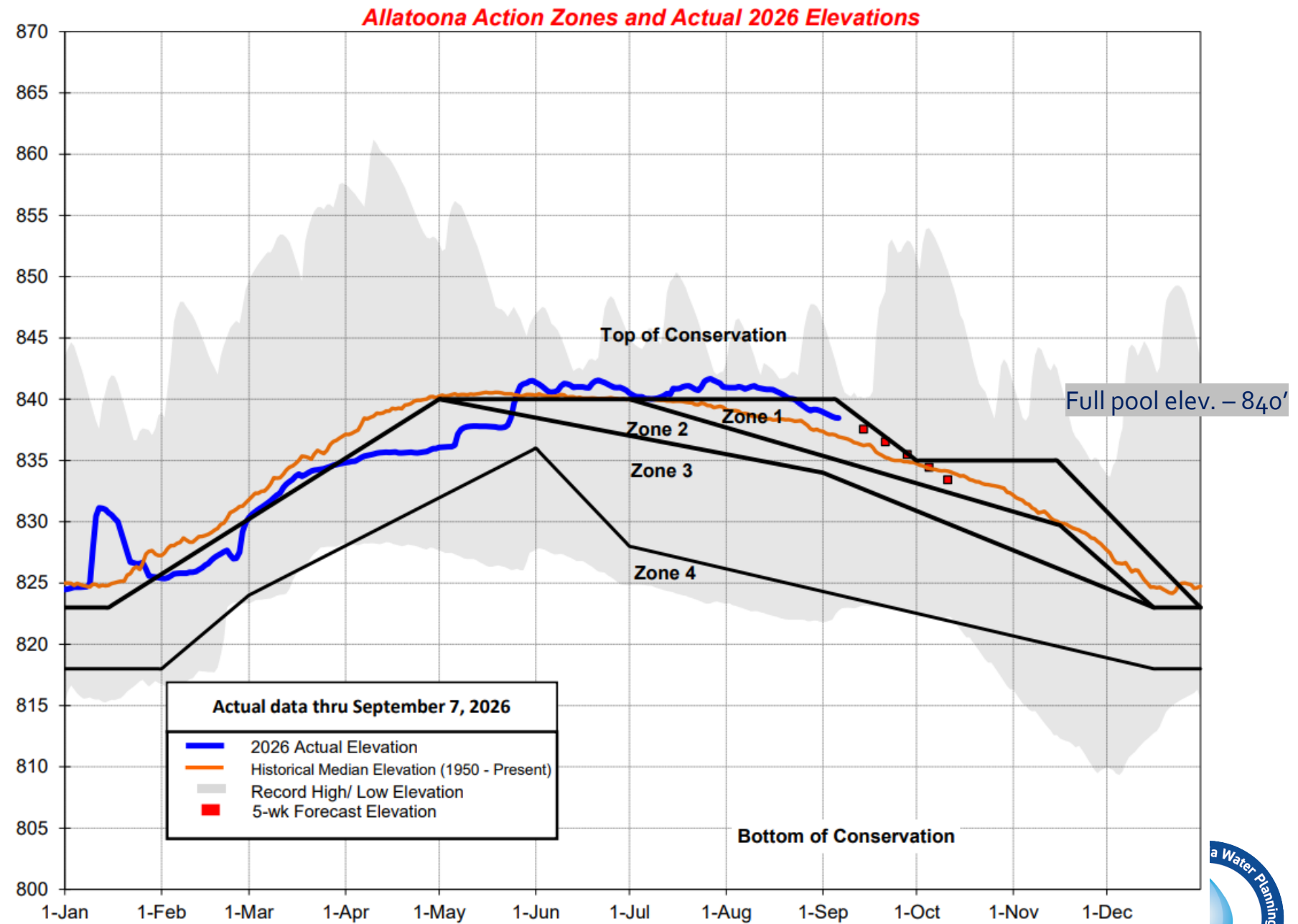


Source: <https://www.drought.gov/states/georgia>

Monthly Streamflow (cfs)

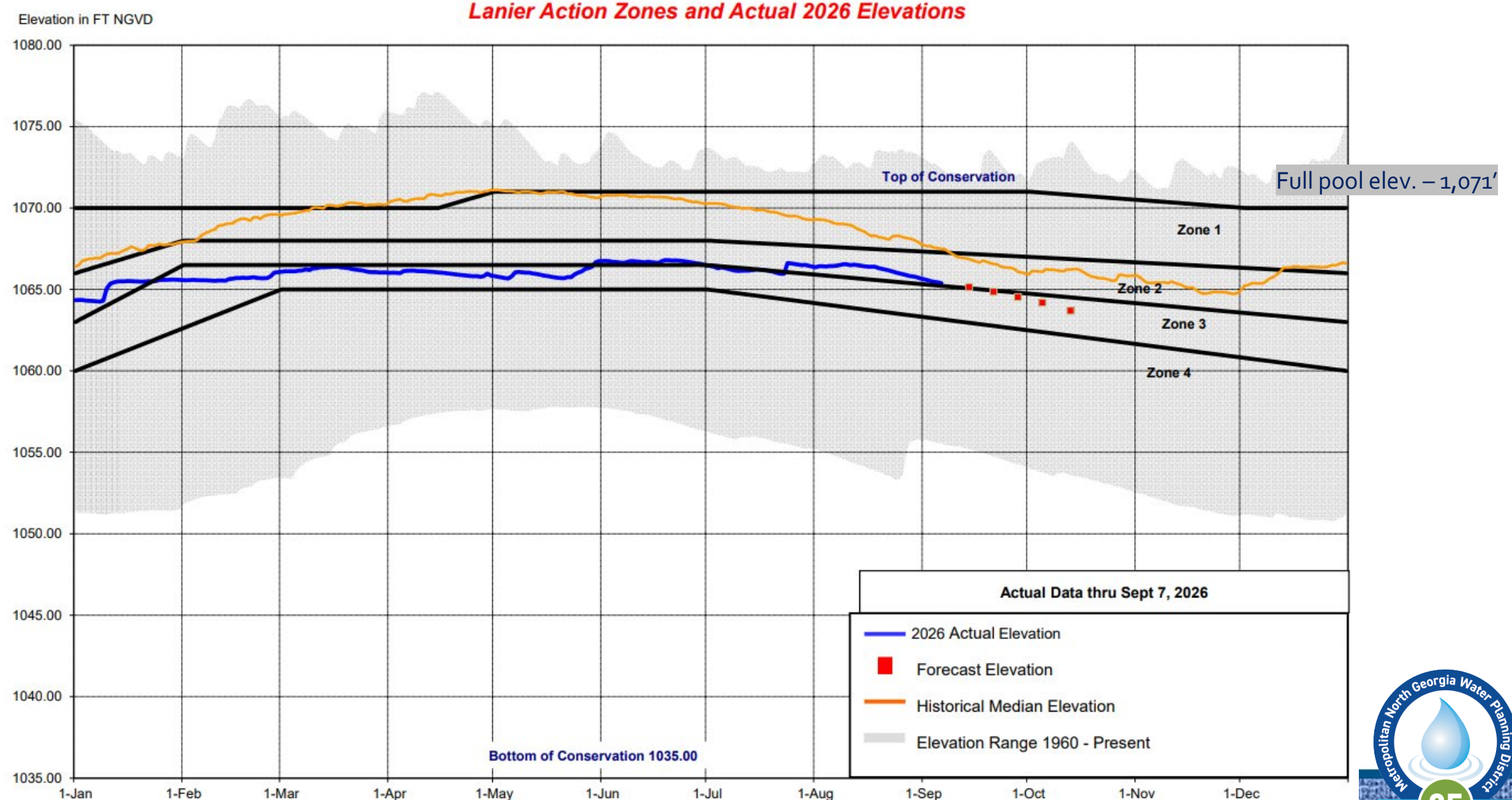


Allatoona
Reservoir
Sept 8th
Elevation:
838.32'



Source:
<https://water.sam.usace.army.mil/actcharts.pdf>

Lake Lanier Sept 8th Elevation: 1,065.21'



Looking Ahead



Warmer tropical Pacific waters weaken trade winds and shift atmospheric circulation.



A stronger southern jet stream could bring more storm activity to the Southeast in the winter.



El Niño increases likelihood of cooler and wetter winters.

EL NIÑO/SOUTHERN OSCILLATION (ENSO) DIAGNOSTIC DISCUSSION

issued by
CLIMATE PREDICTION CENTER/NCEP/NWS

13 August 2026

ENSO Alert System Status: El Niño Advisory

Synopsis: El Niño is strengthening, with a greater than 90% chance of a very strong event during the Northern Hemisphere fall and winter 2026-27.

Alabama
Coosa
Tallapoosa

Apalachicola
Chattahoochee
Flint

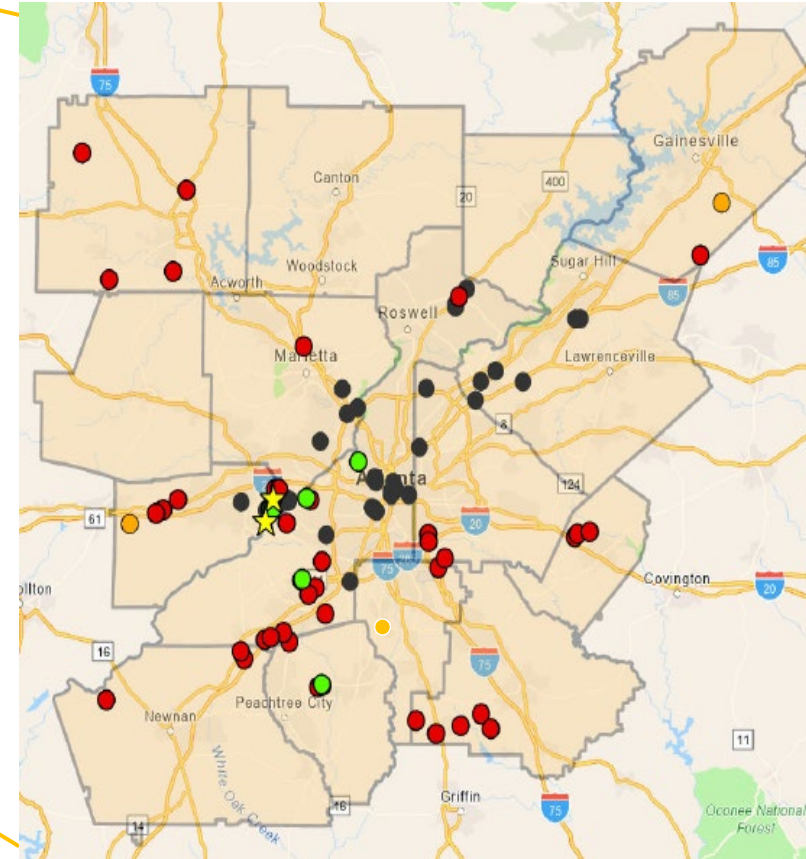
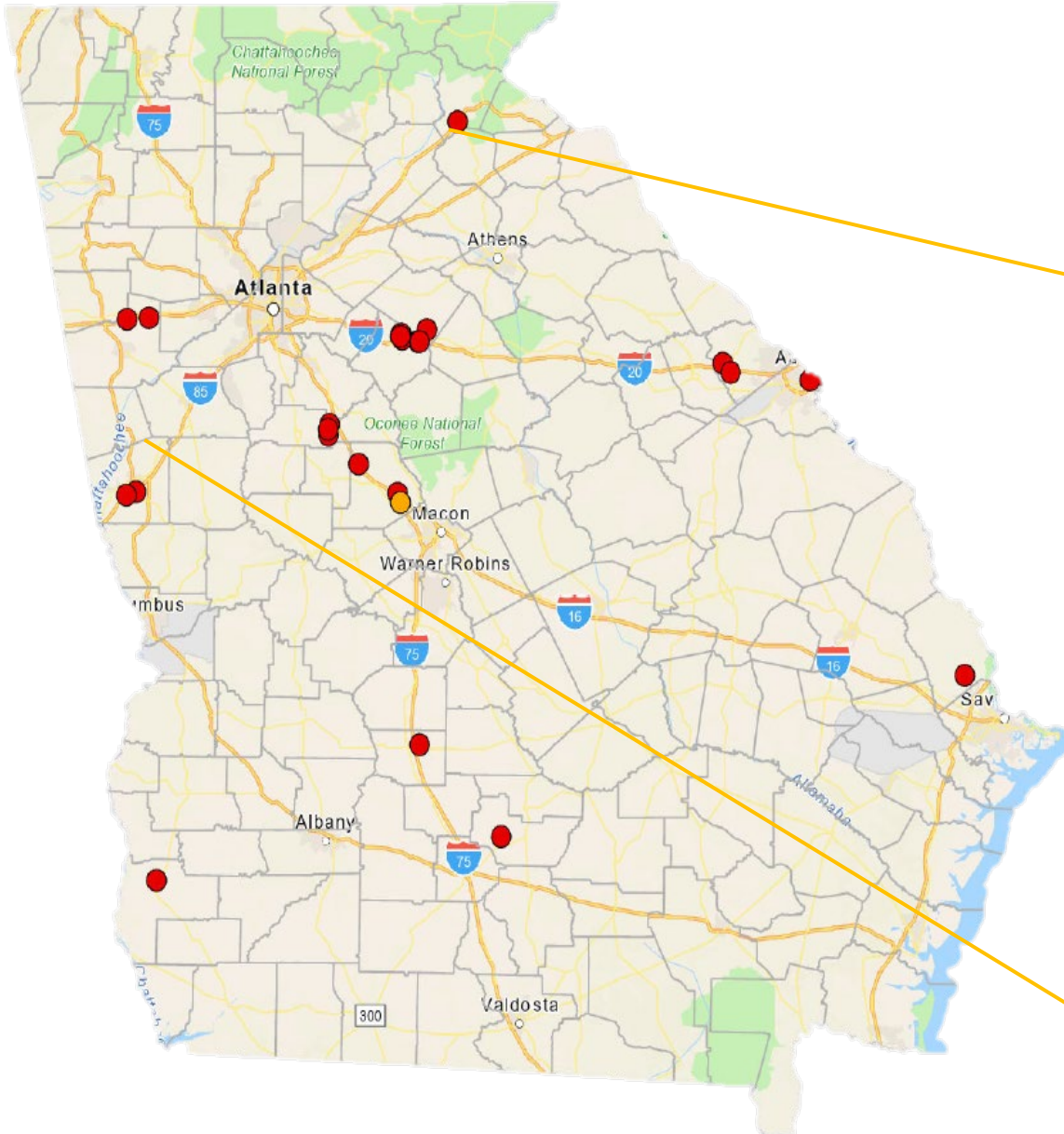
Litigation Update

Data Center Trends in Metro Atlanta



Location Trends:

Majority of proposed locations are looking for larger available tracts of land



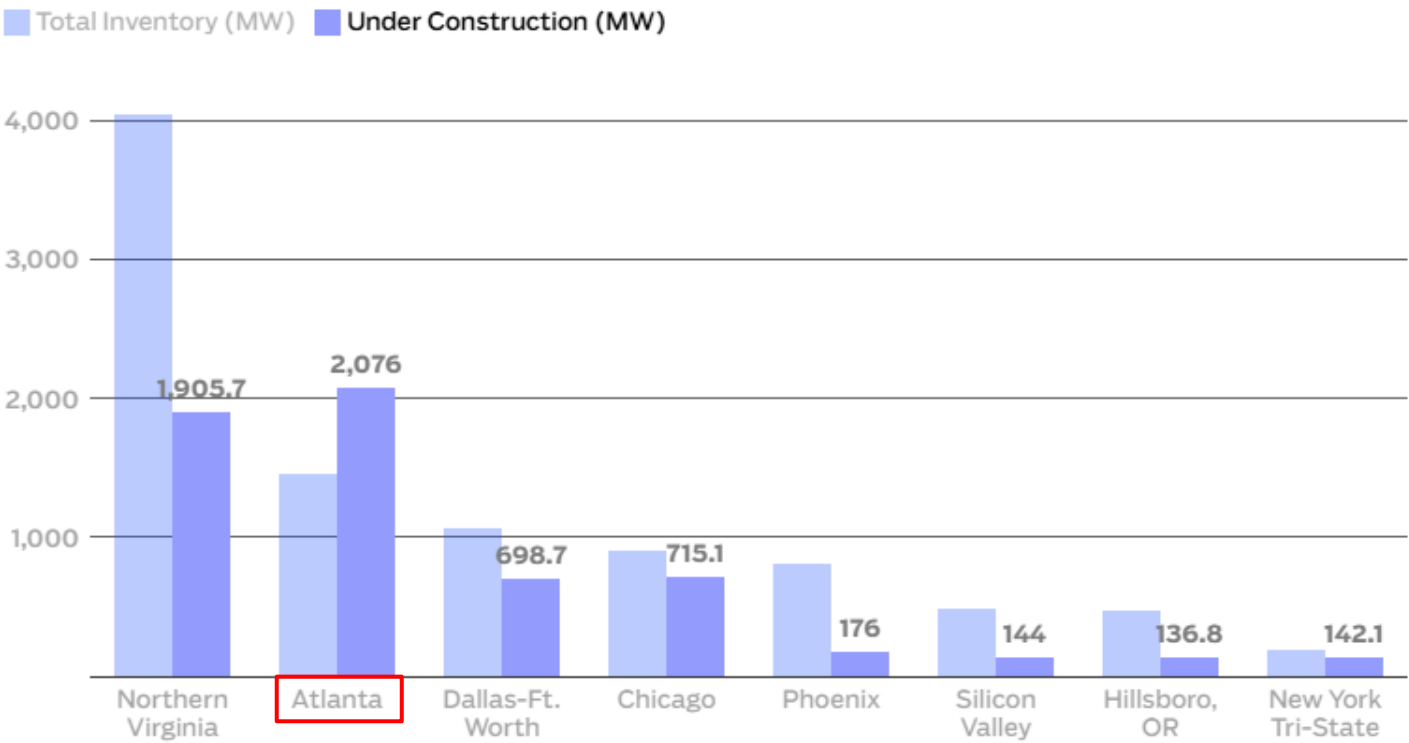
- Completed
- Proposed
- Existing
- Withdrawn
- ★ Denied

Metro Atlanta only
primary market with
more Under
Construction than
Operational

Leading the country in
Construction,
surpassing Northern
Virginia

Atlanta still an outlier

Atlanta not only ended 2025 with the most data center space under construction, but it was the only primary market to have more space being built than was operational.



*Data center space is typically measured by electricity capacity in megawatts.

Chart: Zachary Hansen

Source: CBRE

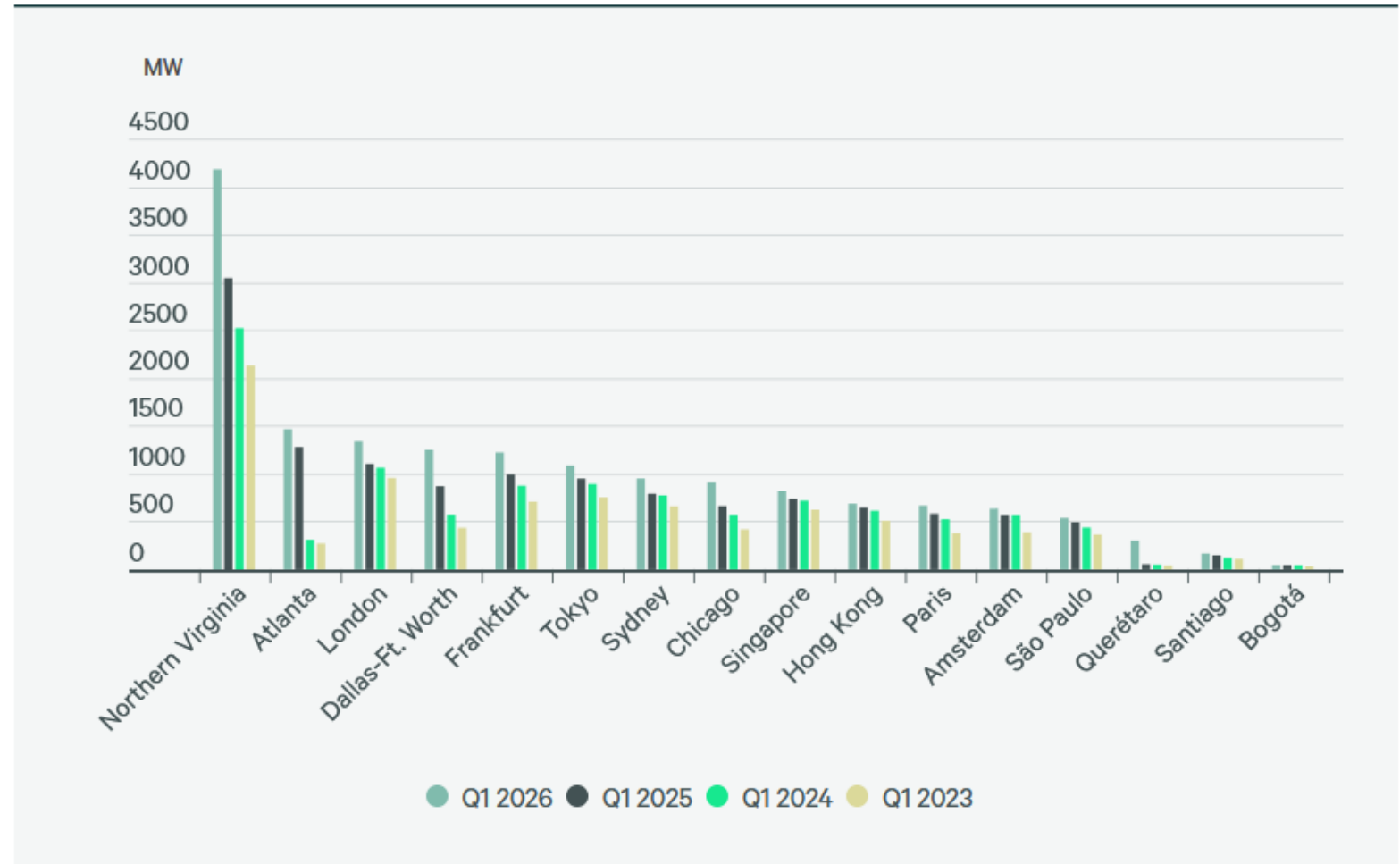
The Atlanta Journal-Constitution



1,465 MW

**Metro Atlanta has
the 2nd most
constructed data
center inventory in
the world**

Figure 2: Data Center Inventory by Market



Source: CBRE Research, Q1 2026.

<https://www.cbre.com/insights/reports/global-data-center-trends-2026>

New Areas of Community Consideration

AIR QUALITY IMPACTS



- Possible degradation during construction and in operations
 - Construction dust
 - Diesel generators (back up energy supply)
- Exposure to fine particulate matter, even at a low level, can pose substantial health risks and threaten local wildlife and minimize plant growth and yield – F. Dominici, professor of biostatistics. Harvard's School of Public health
- Emerging Issue: How does the current Air Protection Branch permitting environment address on-site power production?

HEAT ISLAND EFFECT



- Emerging international research comparing AI Hyperscalers to older data centers
- On-site heat release via energy-intensive processes
 - Increasing computation demands
 - Powering cooling systems
- Study indicates increase of 3.6 F (Marinoni et al, 2026)
 - Extreme cases up to 16.4 F
 - Heat impacts felt upwards of 6 miles from site
- Dense urban environment acts as a heat trap, limiting dispersion and favoring recirculation on neighboring facades and air intakes

Types of Cooling

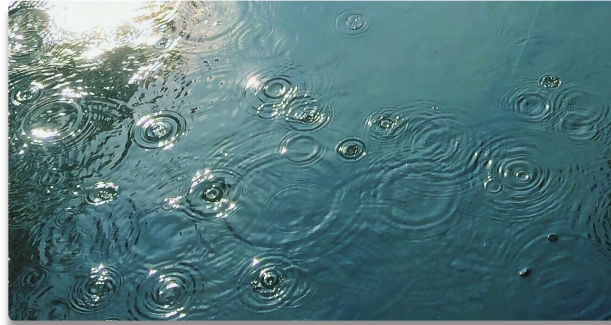
Very important in Metro Atlanta

- 99% dependency on surface water
- No access to groundwater aquifers unlike other parts of the state or country



Evaporative Cooling

- Upwards of 80% of water is evaporated
- Needs constant replenishment
- Does not refill local water supplies



Reuse Cooling

- Reduces amount of water returned to surface water supplies
- Can cause management challenges during times of drought or emergency outages



Closed-Loop -or- Non-Evaporative

- Provides the least amount of consumptive loss for our region's water supplies and those downstream

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Guest Speaker: Steve Allison, Program Manager

GEORGIA EPD, AIR PROTECTION BRANCH



GEORGIA
DEPARTMENT OF NATURAL RESOURCES

ENVIRONMENTAL PROTECTION DIVISION

Regulatory Aspects of Data Center Growth in Georgia

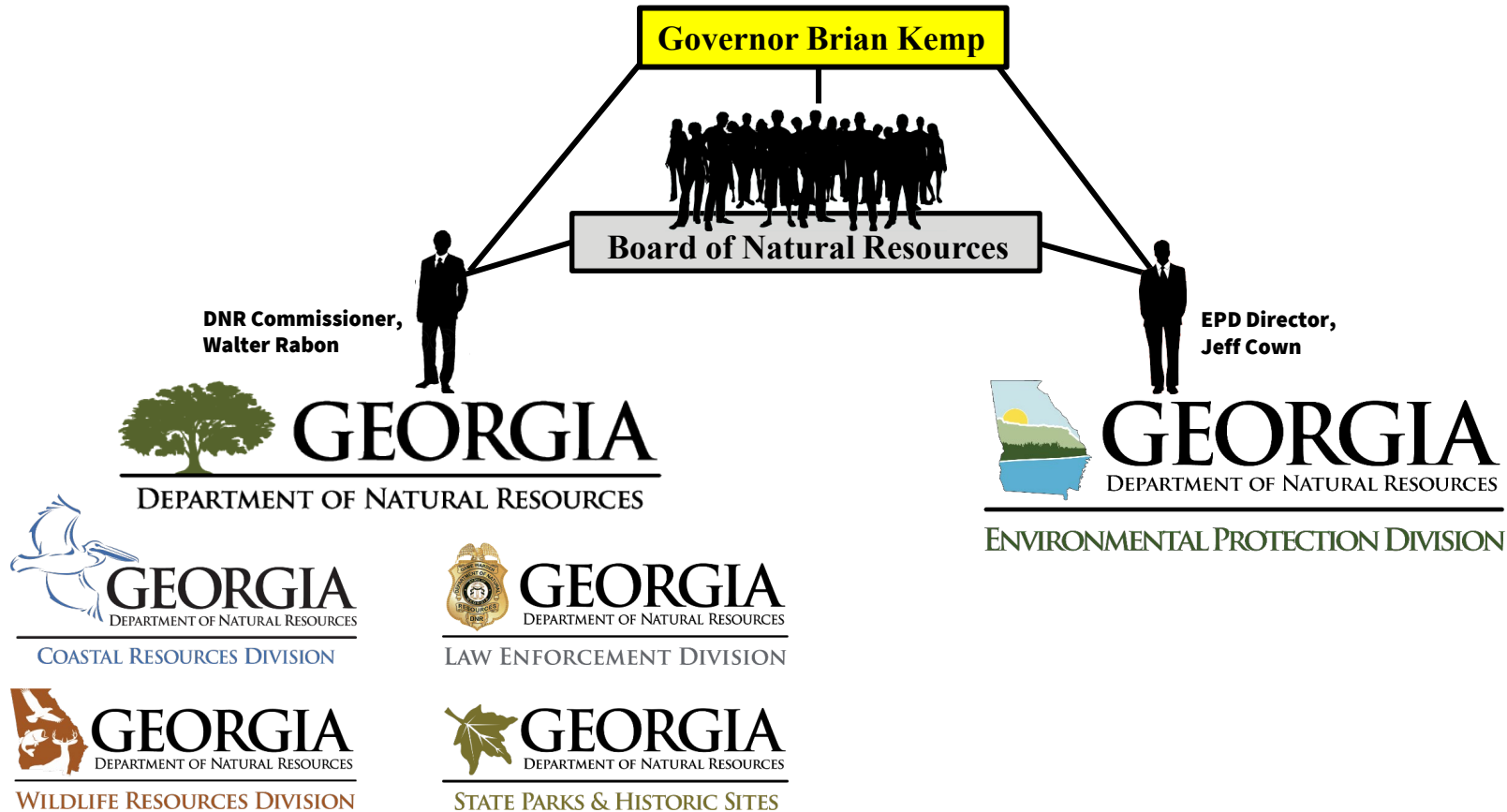
Steve Allison
Manager, Stationary Source Permitting Program
Air Protection Branch

Co-Authors: James Boylan, Cynthia Dorrough,
Byeong Kim, and Ruben Gijon-Felix

Metro Water District Board
September 9, 2026

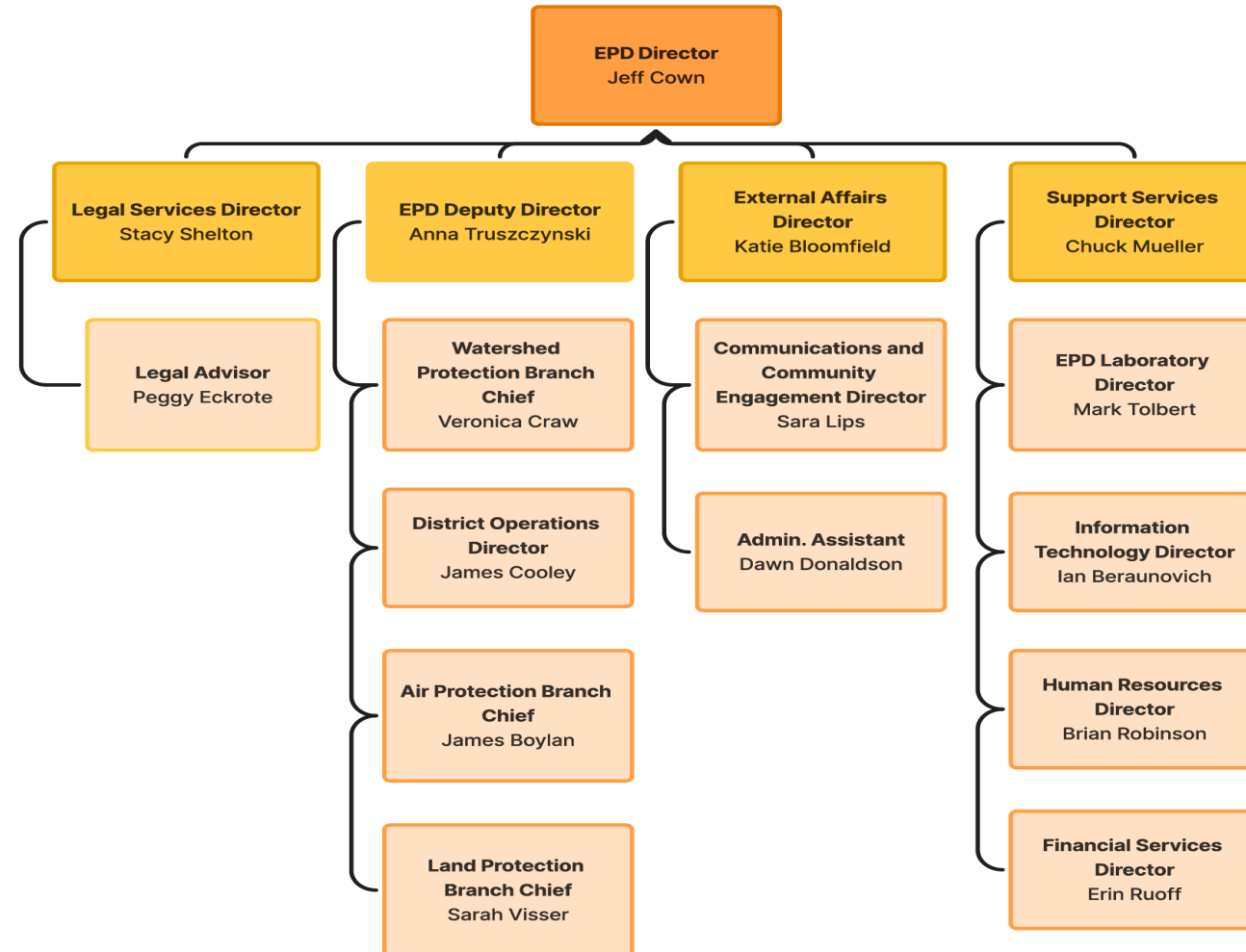


DNR ORGANIZATIONAL STRUCTURE





EPD ORGANIZATIONAL CHART





AIR PROTECTION BRANCH NUMBERS

Staffing

- 155 total full-time positions

Permitting

- 350 Title V sources
- 700+ synthetic minor sources
- 2000+ minor and permit-by-rule sources
- 400–600 permit applications processed annually

Inspections/Full Compliance Evaluations

- 400+ inspections annually (SSCP and District Offices combined)

Monitoring

- 34 Ambient Air Monitoring Sites in Georgia, monitoring for over 200 pollutants

Radioactive Materials Program

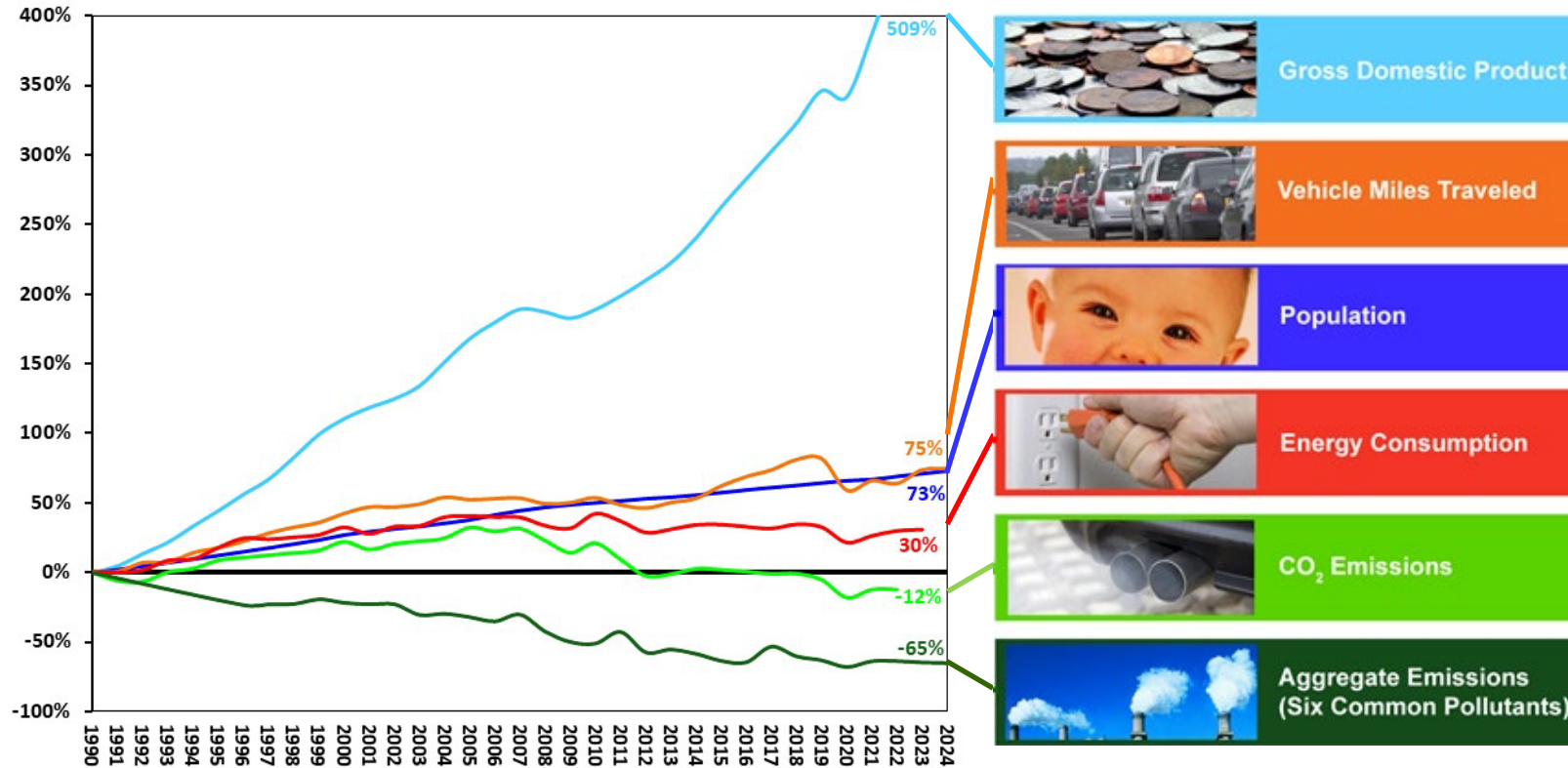
- 400 licensees that use or possess radioactive materials

Mobile Sources

- Over 3 million vehicles tested in 13-county Atlanta metro area
- ~720 inspection stations
- ~2,000 certified inspectors



ECONOMIC GROWTH & CLEANER AIR ARE COMPATIBLE



Since 1990, total emissions of the six principal air pollutants dropped by 65 percent, while the gross domestic product increased by 509 percent.

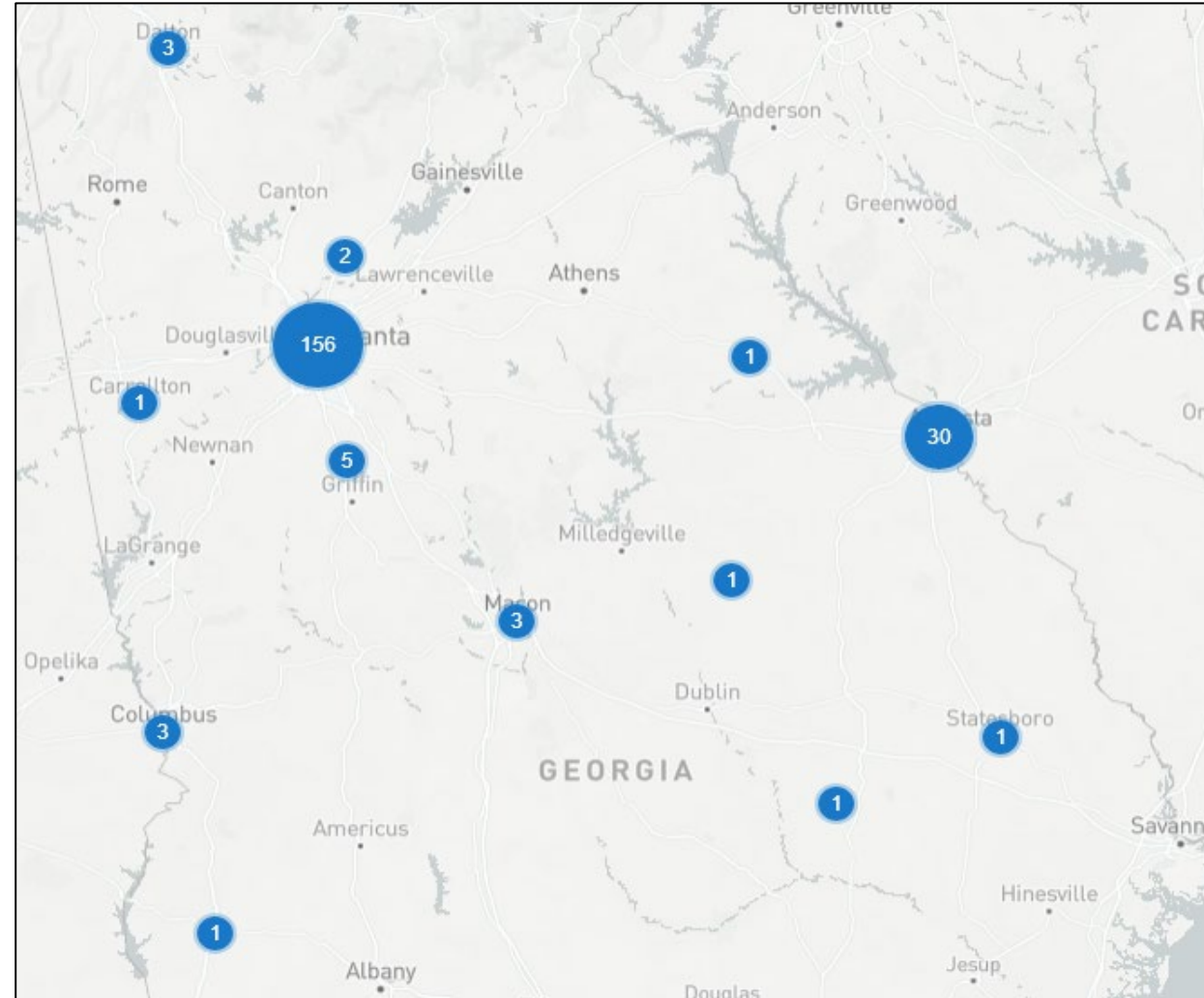


AIR EMISSIONS FROM DATA CENTERS





DATA CENTERS IN GEORGIA



<https://www.datacentermap.com/usa/georgia/>



PERMITTED DATA CENTERS

- As of March 6, 2026, there are estimated to be **165** data centers operating in Georgia.
 - The data center tracker website map shows a total of 208 data centers in the state, but this value represents the number of data center buildings.
 - Georgia EPD has on file **16 permitted** data centers that are operating in Georgia.
 - There are currently an estimated **149 permit exempt** data centers operating in Georgia.
- In addition, there are **13** permitted data centers that are under construction and **14** data center permit applications in-house that are under review.



DATA CENTER PERMIT CLASSIFICATION

Permit Exempt ^(a)	Minor Source ^(b)	Synthetic Minor Source	Transitional Permit ^(c)	Title V	PSD
149	3	23	3	0	0

(a) Unless otherwise required by the Director, SIP permits shall not be required for the following source activities. These exemptions may not be used to avoid any emission limitations or standards of the Rules for Air Quality Control Chapter 391-3-1-.02, lower the potential to emit below "major source" thresholds or to avoid any "applicable requirement" (i.e., NSPS, NESHAP, etc.) as defined in 40 CFR Part 70.2.

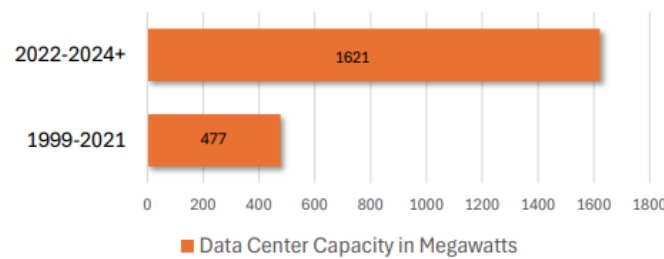
(b) Minor Source permits tend to be uncommon for data centers in Georgia since they are exempt from permitting; however, minor source permits may be issued at the request of the facility.

(c) Transitional permits are SIP major source permits that require the Permittee to apply for, and obtain a Title V permit, typically within 12 months from the facility being subject to Part 70.



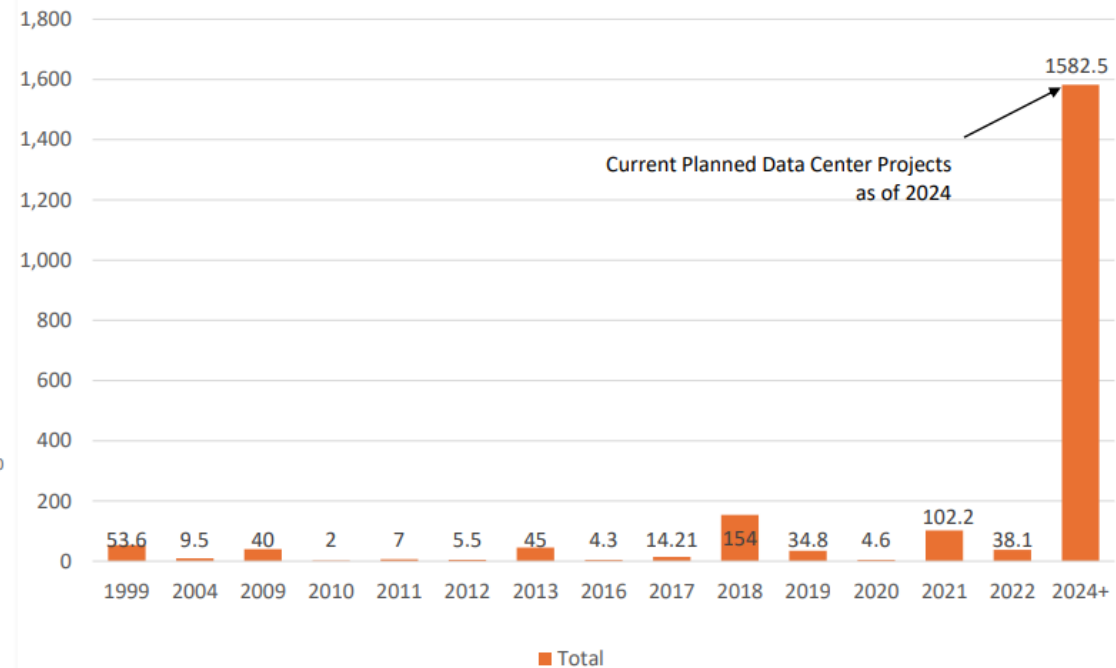
DATA CENTERS CAPACITY (MW) IN ATLANTA

Over the last 24 months, new planned data center projects exceed the total energy demand over the previous 20 years combined



ONE **great** REGION

Constructed and Planned Data Centers
in Megawatt Hr Capacity Over Time
Metro Atlanta Counties



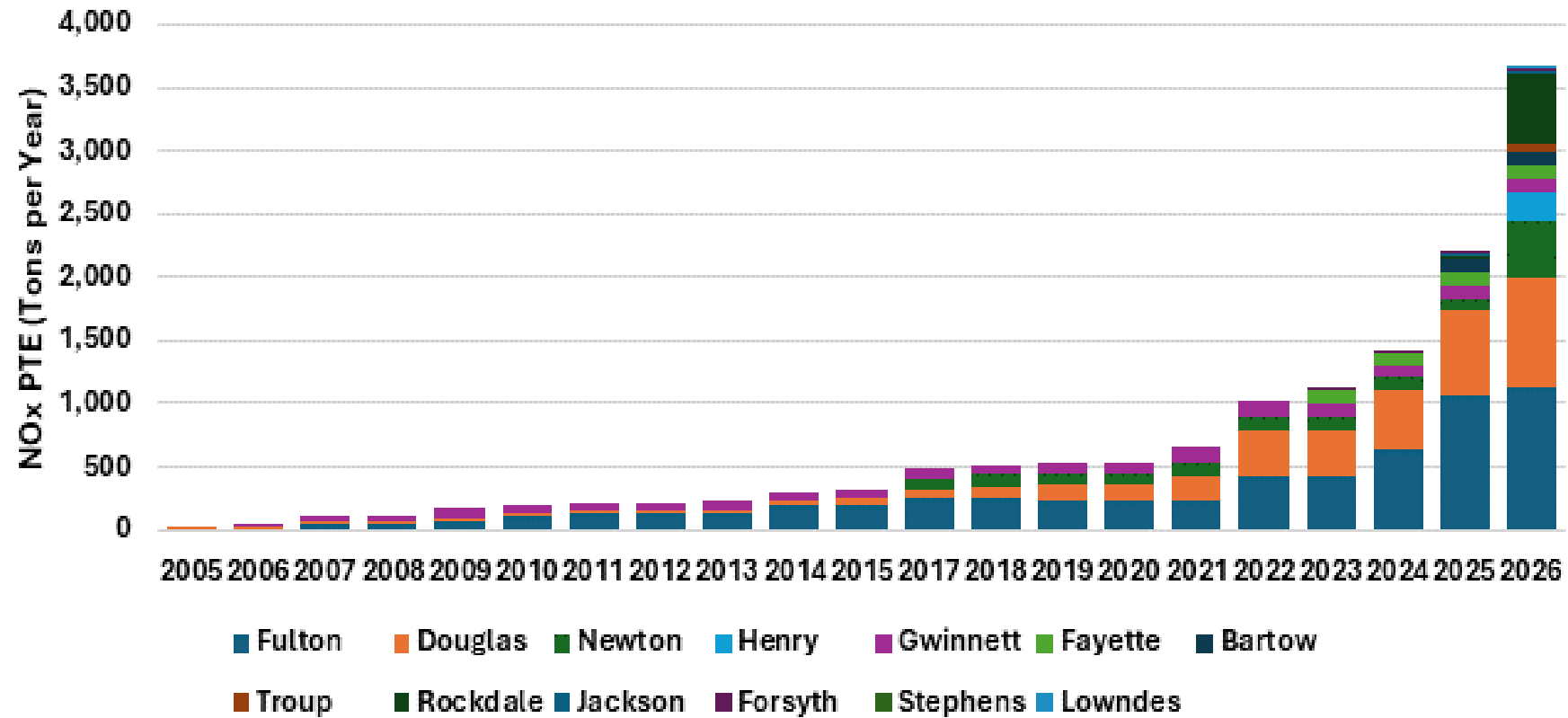
Source : ARC Analysis. Based on publicly available data. Does not include facilities where data is unavailable. Years presented are based on data collected.

ARC

Slide from Atlanta Regional Commission: Data Center Trends in Metro Atlanta (Nov. 13, 2024).

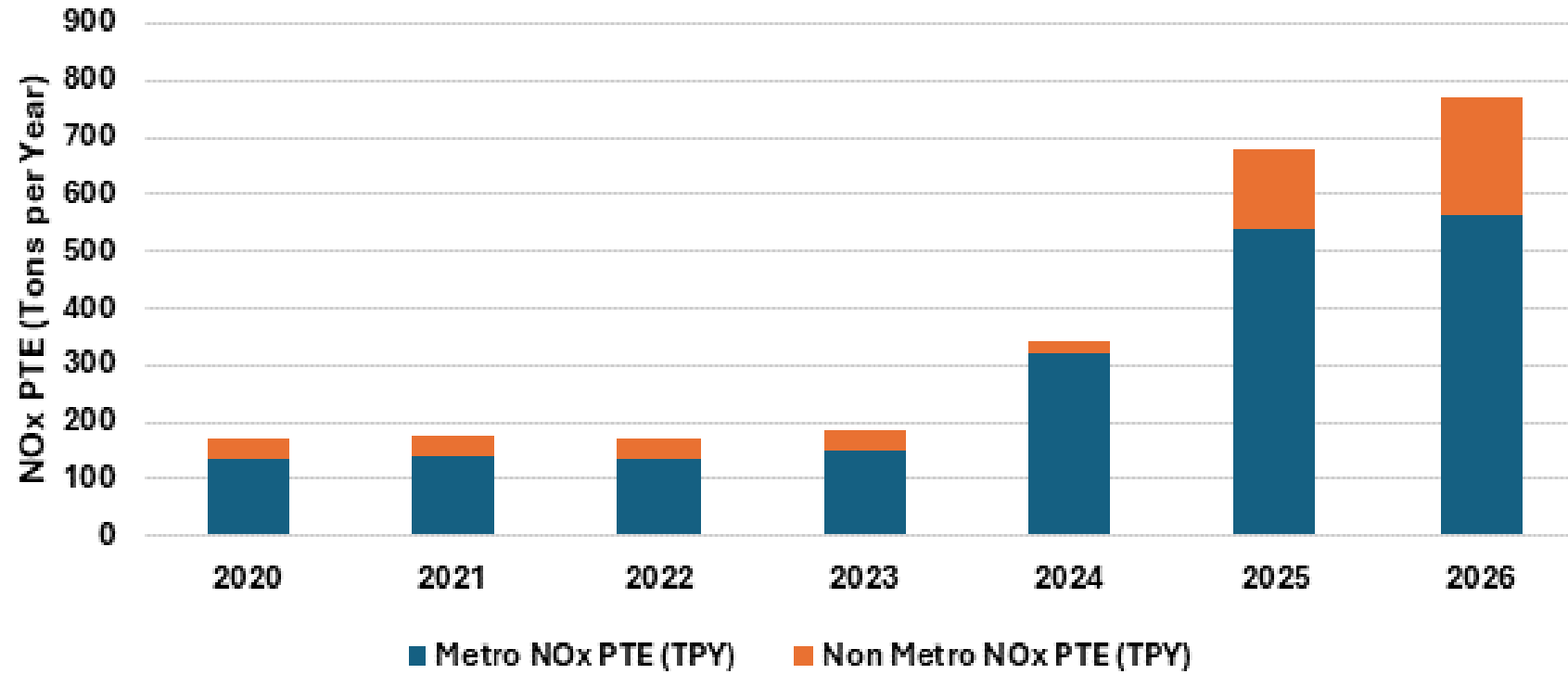


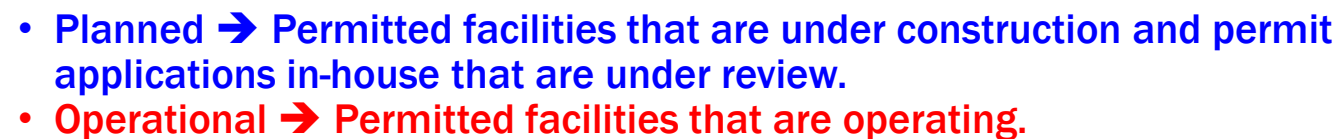
NOx FROM PERMITTED DATA CENTERS





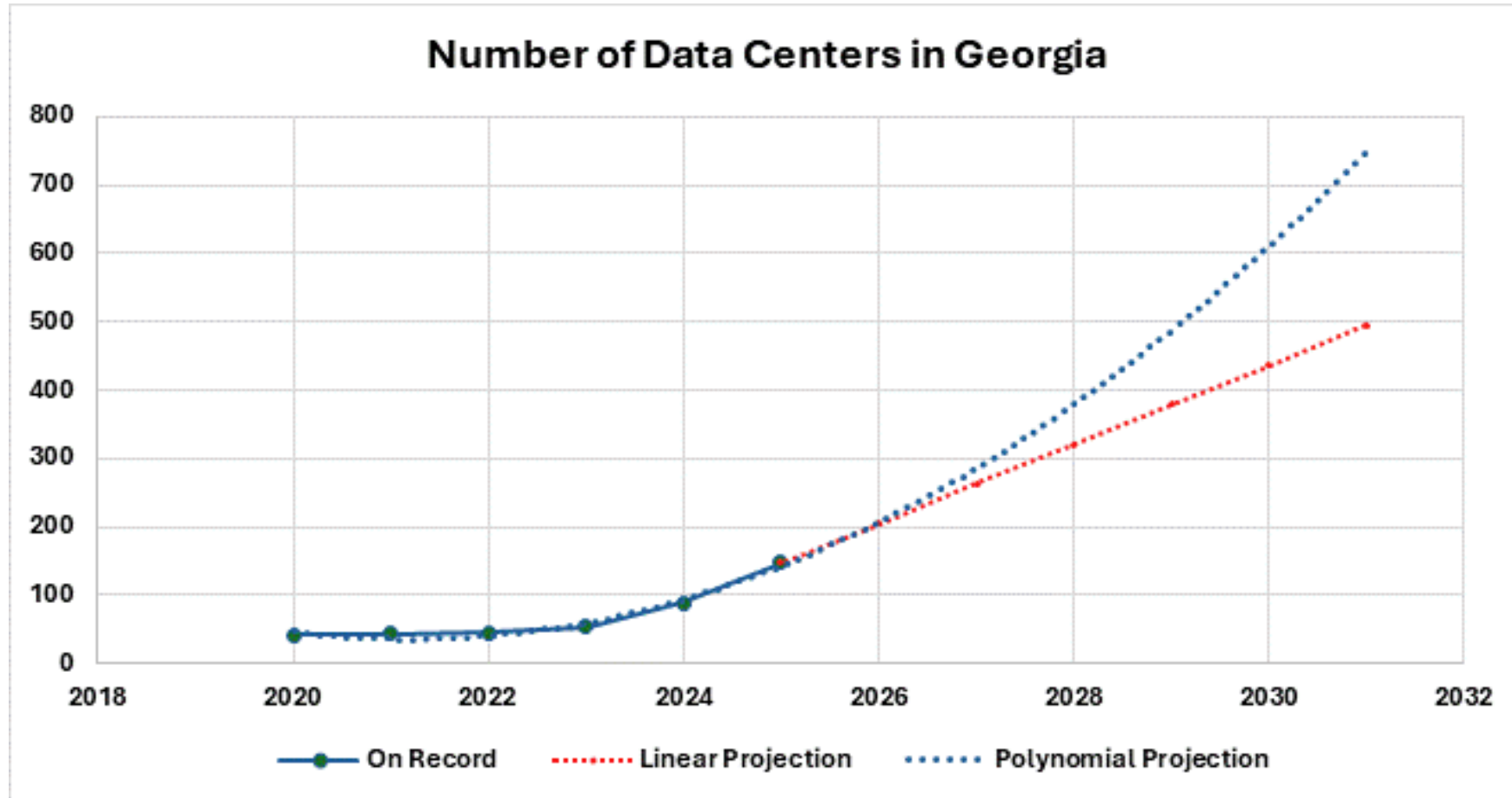
NO_x FROM PERMIT EXEMPT DATA CENTERS







GROWTH PROJECTIONS FOR DATA CENTERS





DATA CENTER GROWTH

- **Total potential NOx emissions from all Georgia data centers in 2025 are estimated to be approximately 2,845 tons.**
- **With a growth expectation of roughly 3-5 times the number of data centers by 2031, potential NOx emissions are estimated to be 8,535 – 14,225 tpy.**
- **Also, Georgia Power has projected to add around 9,900 MW of capacity by 2031 and forecasts that data centers will consume about 80% of the new power generated.**



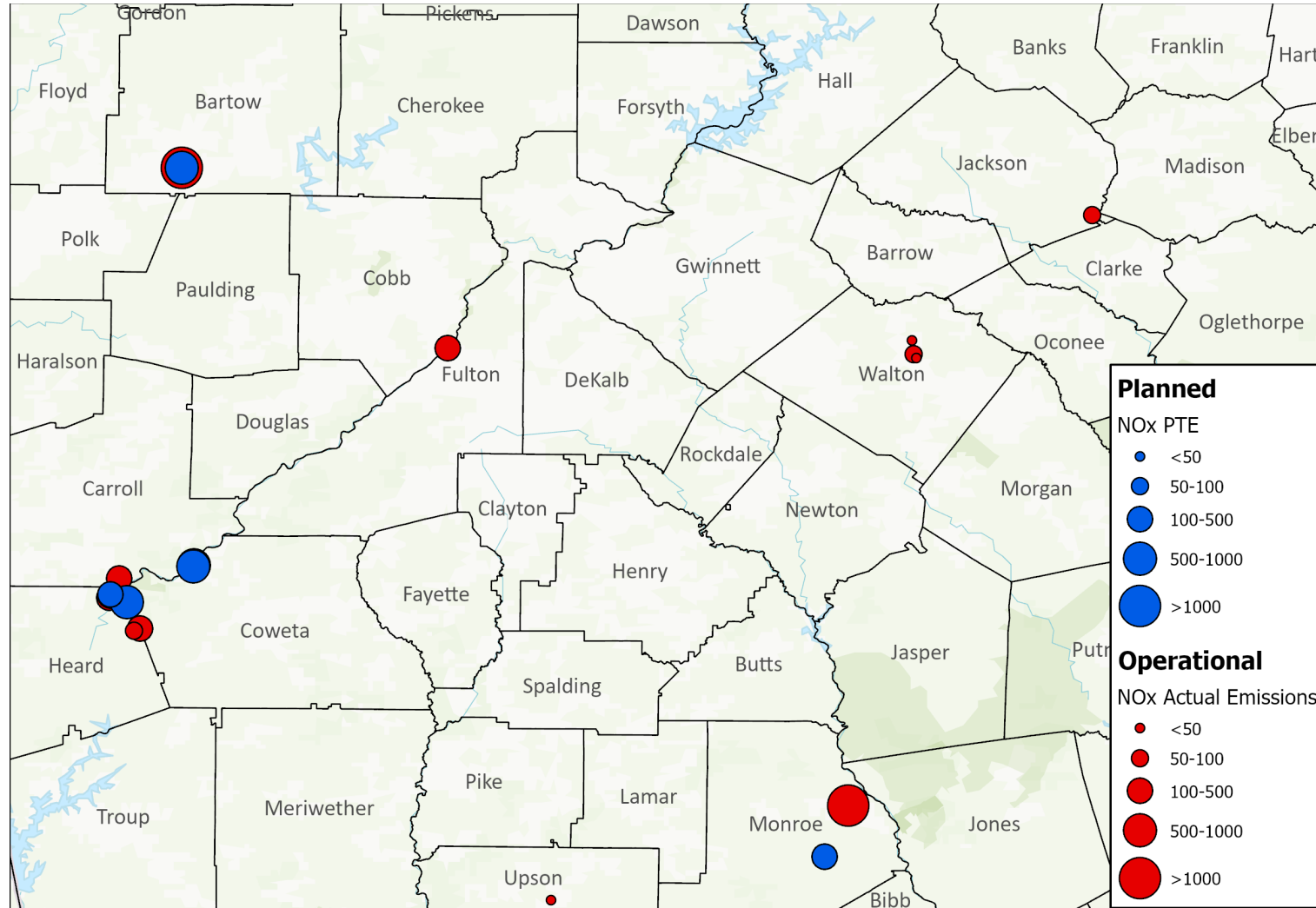
NEW POWER GENERATION

Company	Plant	County	# Units	Unit Types	Total MW
Georgia Power	Plant Yates (issued 06/07/24)	Coweta	3	Simple-cycle gas turbines	1,300 MW
Georgia Power	Plant Bowen (issued 01/29/26)	Bartow	4	Combined cycle gas turbines	1,482 MW
Georgia Power	Plant Wansley (issued 03/03/26)	Heard	2	Combined cycle gas turbines	1,453 MW
Georgia Power	Plant McIntosh*	Effingham	2	Combined cycle gas turbines	757 MW
Oglethorpe Power Company	Talbot Energy Facility (issued 03/04/26)	Talbot	1	Simple-cycle gas turbine	256 MW
Oglethorpe Power Company	Smarr Combined Cycle Energy Facility (issued 11/06/25)	Monroe	2	Combined cycle gas turbines	1,200 MW
Tenaska Enon Generating Facility	Tenaska Enon Generating Facility*	Heard	4	Simple-cycle gas turbines	1,800 MW

***PSD permit application currently under review by the SSPP NOx Permitting Unit.**



NO_x EMISSIONS FROM POWER PLANTS



- **Planned** → Permitted facilities that are under construction and permit applications in-house that are under review.
- **Operational** → Permitted facilities that are operating.



PERMITTING FORECASTS & CHALLENGES

- **Bring Your Own Generation (BYOG)**
 - Bridge power to an off-site data center
 - On-Site temporary power generation
- **Hyperscale Data Centers, Speculative Permitting, and Negotiating Permitting Pathways**
- **Site Determination**
 - Common Control
 - Colocation



PERMITTING FORECASTS & CHALLENGES

- **Increased Public Interest**
 - The location of the facility is determined by the company, not by EPD.
 - The zoning of the land as “industrial” and the issuance of business licenses and building permits is done by city and county government officials, not by EPD.
 - Georgia Rule 391-3-1-.03(1)(c) – “The permit for the construction or modification of any facility shall be issued upon a determination by the Director that the facility can reasonably be expected to comply with all the provisions of the Act and the rules and regulations promulgated thereunder.”



PERMITTING FORECASTS & CHALLENGES

- **Air Toxics Modeling**
 - Modeling scenarios and their impact on permit limits.
 - Parameters used in modeling such as hours of operation and/or fuel consumption can result in additional permit limits.
 - Source Characterization (e.g., horizontal discharge)



AIR TOXICS PROGRAM

- Georgia operates a robust Air Toxics program to demonstrate that emissions from 439 toxic air pollutants (TAPs) comply with Georgia Rules for Air Quality Control 391-3-1-.02(2)(a)1. and 391-3-1-.02(2)(a)3.
- Minimum Emission Rates (MERs) for each individual TAP were established for screening purposes.
 - Facility-wide emissions < MER → no further analysis
 - Facility-wide emissions > MER → modeling analysis
- Acceptable Ambient Concentrations (AACs) are derived for various averaging periods (15-minute, 8-hour, 24-hour, annual) based on IRIS, OSHA, Cal/OSHA, NIOSH, and ACGIH data.



TOXIC IMPACT ASSESSMENT

- TAPs relevant for data center reviews:
 - **Formaldehyde**: MER = 22.1 lb/yr
 - **Benzene**: MER = 31.6 lb/yr
 - **Acetaldehyde**: MER = 1,107.2 lb/yr
 - **Toluene**: MER = 1,216,650 lb/yr
 - **Xylenes**: MER = 24,333 lb/yr
 - **Naphthalene**: MER = 730 lb/yr
 - **Acrolein**: MER = 85.1 lb/yr
 - **1,3-Butadiene**: MER = 7.3 lb/yr
- Maximum 1-hour emission rates for short term modeling
- Annualized emissions for annual modeling based on permitted hours of operation (e.g., 500 hr/yr/generator)



NEXT STEPS

- Look at ways to more accurately track permit-exempt emergency generators.
- Look at ways to inventory actual NO_x emissions (rather than PTE) from emergency generators.
- Look at ways to limit the projected increase in NO_x emissions, especially in the Atlanta area since Atlanta is currently violating the 2015 ozone standard.



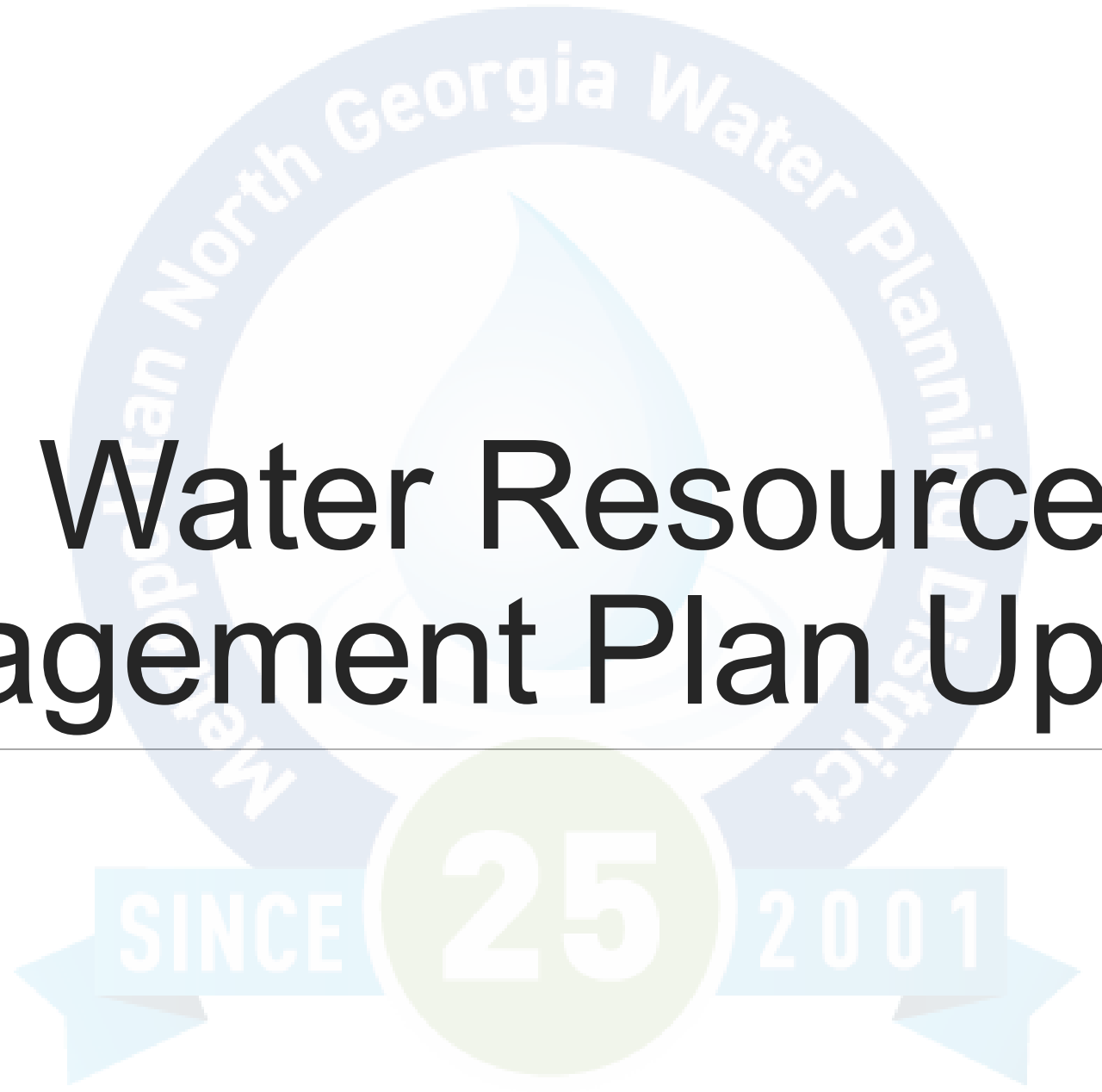
CONTACT INFORMATION

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THANK YOU!



The logo of the Metropolitan North Georgia Water Planning District is a circular emblem. It features a light blue water droplet in the center. The words "Metropolitan North Georgia Water Planning District" are written in a light blue arc around the droplet. At the bottom of the emblem, there is a green circle containing the number "25", flanked by two light blue banners that read "SINCE" and "2001".

2028 Water Resources Management Plan Update

SINCE

25

2001

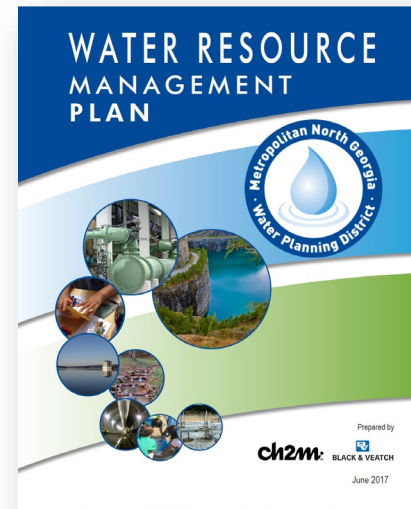
Water Resources Management Plan Updates



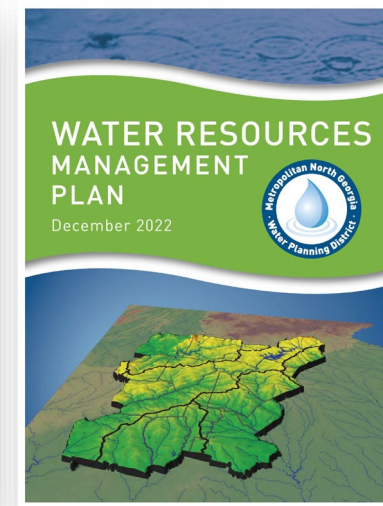
2003



2009



2017



2022



2028



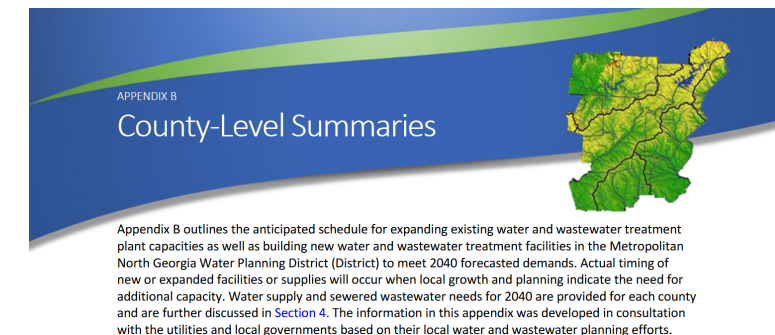
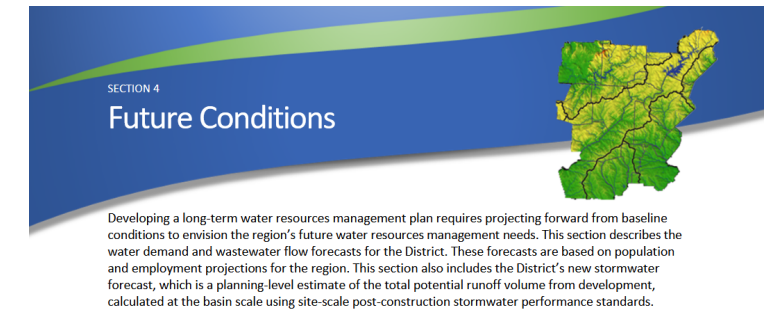
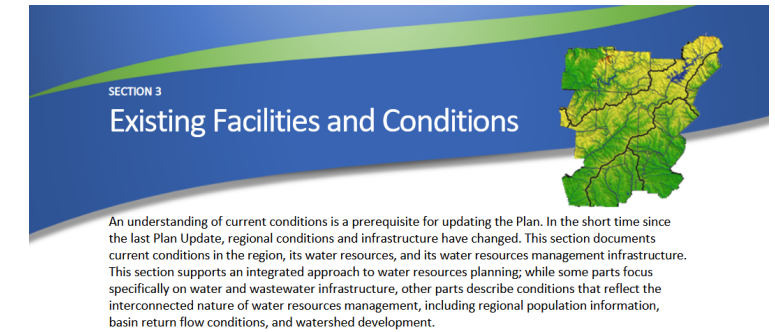
Metro Water District Tasks

- Water Resources Management Plan and Action Item Review
- Stakeholder engagement
 - October: Basin Advisory Councils
 - November: Technical Coordinating Committee



Jacobs Tasks

- 1: Meetings/ Stakeholder and Public Involvement
- 2: Digital Document Update & Distribution of Materials
- ★ 3: Regional Water and Wastewater Demand Forecasts
- 4: Planned Water Supply Sources, Drinking Water Treatment Facilities, and Wastewater Treatment Facilities for 2050
- 5: Regional Biosolids Production Forecasts
- 6: Stormwater Forecast Update
- ★ 7: Aging Infrastructure Forecast
- ★ 8: Private Stormwater Systems Guide
- 9: River Basin Profile Updates



TASK 3: Regional Water and Wastewater Demand Forecasts

- Complete, county-wide data is critical to ensure an accurate and comprehensive analysis
 - Received data from approximately 40% of local jurisdictions and authorities
 - Continuing to coordinate for data submittal
- Variables evaluated to identify key demand drivers and inform future projections
 - Climate
 - Economic
- Population and employment projections
 - Atlanta Regional Commission (ARC) Series 17 Forecast
 - Office of Planning and Budget (OPB) 2026 data
 - Woods & Poole 2026 database



Task 7: Aging Infrastructure Forecast



Objectives:

- Address the long-term management issue of aging infrastructure (water, wastewater, and stormwater)
- Elevate Regional Aging Infrastructure Awareness
- Propose and promote best practices

Deliverables:

- An **inventory** of aging buried infrastructure in the region
- **Recommendations for replacement strategies** (e.g., replace all water pipe that is 70-years or older) and **replacement rates** (or a range of replacement rates)
- **Cost estimates associated with inaction** related to aging buried infrastructure
- The work will be integrated into the District's 2028 Plan

Task 8: Private Stormwater Systems Guide



- Georgia Stormwater Management Guidebook for Residents and Small Businesses
- Understand public vs private stormwater management infrastructure
- Diagnose common drainage problems and identify the right professional to contact for help

Georgia Stormwater Management Manual (Vol. 2)

Table 4.1.3-1 BMP Selection Guide

BMP	Runoff Reduction	Stormwater Management & Treatment							Site Applicability						Cost Considerations	
	RR ***	WQ _v / TSS	CP _v	Q ₂₅ / Q ₁	Total Phosphorus	Total Nitrogen	Fecal Coliform	Metals	LID/GI	Drainage Area (ac)	Space Req'd (% of Imperv. Drainage Area)	Max Site Slope	Minimum Head (Elevation Difference)	Depth to Water Table	Construction Cost	Maintenance Burden
Bioretention Basins ^{1,3,4}	Yes	85%	†	†	80%	60%	90%	95%	Yes	5 max	3-6%	20%	3 ft	2 ft	Med-High	Med
Bioslopes ⁷	Yes	85%	†	X	60%	25%	60%	75%	Yes	N/A	N/A	5%	N/A	2 ft	Med	Med
Downspout Disconnects ²	Yes	80%	X	X	25%	25%	N/A**	40%	Yes	2,500 ft²	Min. length of flow path 15'	6%	N/A	No restrictions	Low	Low
Dry Detention Basins ⁶	No	60%	X	✓	10%	30%	N/A**	50%	No	75 max	N/A	15%	3 ft	2 ft	Low	Low
Dry Extended Detention Basins ²	No	60%	✓	✓	10%	30%	N/A**	50%	No	No restrictions	1-3%	15%	4-8 ft	2 ft	Low	Low
Dry Wells ²	Yes	100%	†	X	100%	100%	100%	100%	Yes	2,500 ft²	5-10%	6%	2 ft	2 ft	Med	Med
Enhanced Dry Swales ¹	Yes	80%	†	X	50%	50%	X	40%	Yes	5 max	10-20%	4%	3-5 ft	2 ft	Med	Low
Enhanced Wet Swales ¹	No	80%	†	X	25%	40%	X	20%	Yes	5 max	10-20%	4%	1 ft	Below	Med	Low
Grass Channels ¹	Minimal	50%	†	X	25%	20%	X	30%	Yes	5 max	10%	4%	<1 ft	2 ft	Low	Low
Gravity (oil-grit) Separators ²	No	40%	X	X	5%	5%	N/A	N/A	No	5	N/A	6%	4 ft	2 ft	High	High
Green Roofs ²	Yes	80%	X	X	50%	50%	N/A**	N/A**	Yes	N/A	No restrictions	25%	6-12 in	N/A	High	Low
Infiltration Trenches ¹⁰	Yes	100%	†	†	100%	100%	100%	100%	Yes	5 max	2-3%	6%	1 ft	2 ft	High	High
Multi-Purpose Detention Basins ²	No	Varies	X	†	N/A**	N/A**	N/A**	N/A**	No	No restrictions	1-3%	15%	4-8 ft	2 ft	Low	Low
Organic Filters ²	No	80%	†	X	60%	40%	50%	75%	Yes	10	3-5%	6%	5-8 ft	2 ft	High	High
Permeable Paver Systems ²	Yes	80%	†	†	50%	50%	N/A**	60%	Yes	N/A	No restrictions	6%	2-4 ft	2 ft	High	High
Pervious Concrete ²	Yes	80%	†	†	50%	65%	N/A**	60%	Yes	N/A	No restrictions	6%	2-4 ft	2 ft	High	High
Porous Asphalt (excludes OGFC) ²	Yes	80%	†	†	50%	50%	X	60%	Yes	N/A	0%	N/A	N/A	2 ft	Med	Med
Proprietary Systems ²	Varies	Varies	Varies	Varies	Varies	Varies	Varies	Varies	No	Varies	Varies	Varies	Varies	Varies	Varies	Varies
Rainwater Harvesting ²	Based on Demand	Varies	†	X	Varies	Varies	Varies	Varies	Yes	No restrictions	Varies	No restrictions	N/A	N/A	Med	High
Regenerative Stormwater Conveyance ⁴	No	80%	X	X	70%	70%	N/A**	N/A**	Yes	50 max	Varies	10%	Varies	Above	High	Med
Sand Filters ¹	No	80%	†	X	50%	25%	40%	50%	Yes	2-10 max	2-3%	6%	2-5 ft	2 ft	High	High
Site Reforestation/Revegetation ²	No**	N/A**	N/A**	N/A**	N/A**	N/A**	N/A**	N/A**	Yes	N/A	10,000 ft² Min.	25%	N/A	No restrictions	Med	Low
Soil Restoration ²	No**	N/A**	N/A**	N/A**	N/A**	N/A**	N/A**	N/A**	Yes	N/A	No restrictions	10%	N/A	1.5 ft	Med	Low
Stormwater Planters / Tree Boxes ²	Yes	80%	X	X	60%	60%	80%	N/A	Yes	2,500 ft²	5%	6%	2 ft	2 ft	High	Med
Stormwater Ponds ²	No	80%	✓	✓	50%	30%	70%	50%	No	10-25 min	2-3%	15%	6-8 ft	2 ft (if aquifer)	Low	Low
Stormwater Wetlands – Level 1 ¹	No	80%	✓	✓	40%	30%	70%	50%	Yes	25 min	3-5%	8%	2-3 ft	2 ft (if aquifer)	Med	Med
Stormwater Wetlands – Level 2 ⁴	No	85%	X	X	75%	55%	85%	60%	Yes	5 min	3-5%	Flat	2-3 ft	2 ft (if aquifer)	Med-High	Med
Submerged Gravel Wetlands ²	No	80%	X	X	50%	20%	70%	50%	No	5	3-5%	4%	2-5 ft	No restrictions	High	High
Underground Detention ²	No	0%	✓	✓	0%	0%	0%	0%	No	25 max	N/A	15%	4-8 ft	2 ft	High	Med
Vegetated Filter Strips ¹	Yes	60%	†	X	20%	20%	X	40%	Yes	5 max	20%	6%	<1 ft	1-2 ft	Low	Low

✓ - BMP can meet the stormwater management or treatment requirement
† - BMP may meet the stormwater management or treatment requirement depending on size, configuration, and site constraints
X - BMP may contribute but is not likely to fully meet the stormwater management or treatment requirement

Pollutant Removal References:

1: Original Georgia Stormwater Management Manual, 2001
2: Coastal Stormwater Supplement to the Georgia Stormwater Management Manual, 2009

3: Bioretention - Watershed Benefits. Low Impact Development Urban Design Tools. 04 April 2014.
4: The Next Generation of Stormwater Wetlands. EPA Wetlands and Watersheds Article Series (2008) Center for Watershed Protection

5: Bioretention Performance, Design, Construction, and Maintenance. North Carolina Cooperative Extension Service. Hunt, William. 2006
6: North Carolina Department of Environment and Natural Resources Stormwater Best Management Practices Manual. 2007

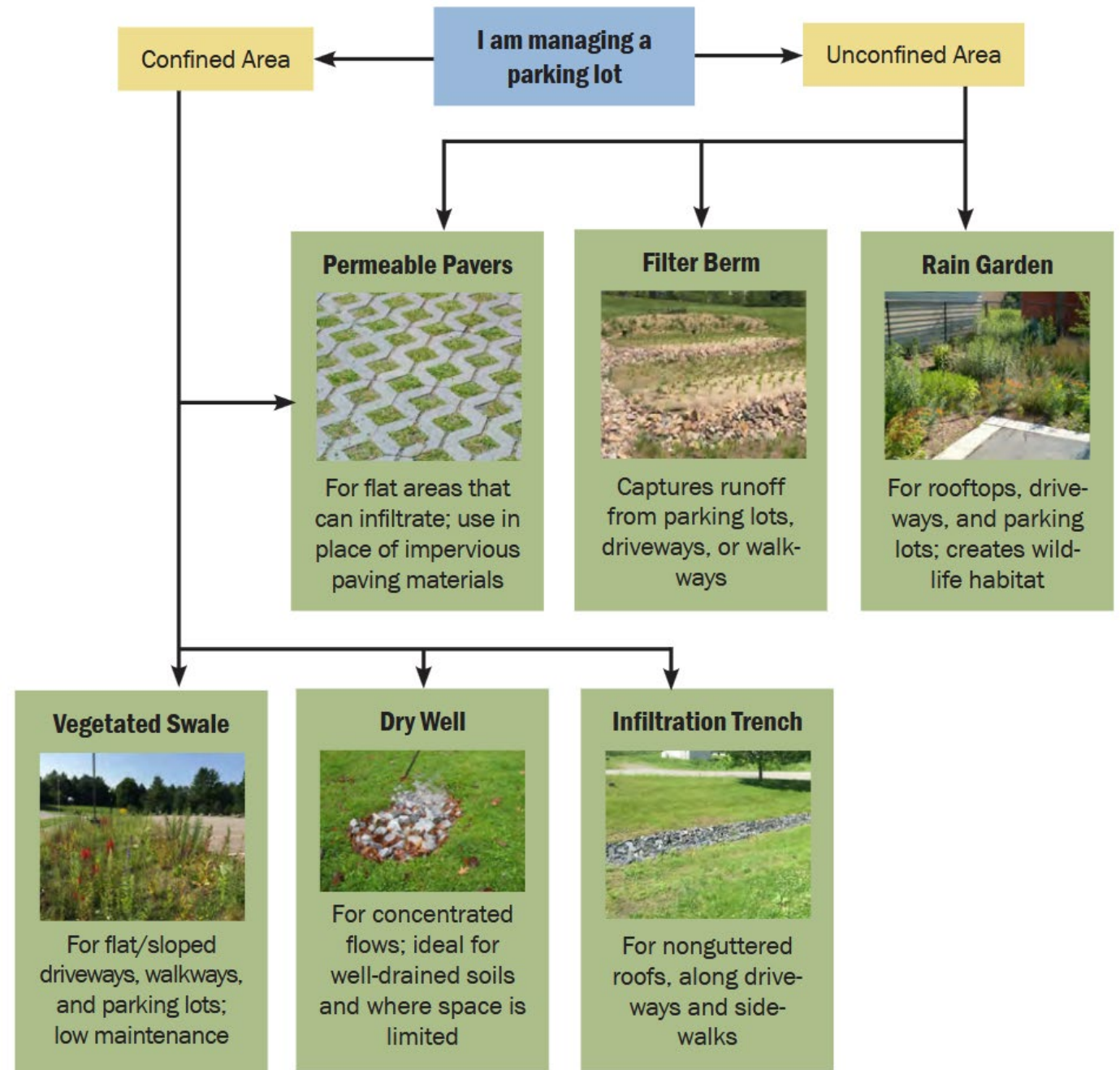
7: Washington State Department of Transportation (WSDOT) Highway Runoff Manual, 2011.
8: West Virginia Stormwater Management Design Guidance Manual, 2012

9: Georgia Department of Transportation (GDOT) Drainage Manual, 2014
10: Pollutant removal rates based on 100% infiltration with no underdrain

* - Minimum drainage area of ten acres is required to maintain the permanent pool (unless groundwater is present).
** - Helps restore pre-development hydrology, which implicitly reduces post-construction stormwater runoff rates, volumes and pollutant loads
*** - Runoff reduction percentages are listed in Table 4.1.3-2 (BMP Runoff Reduction Credits)



Georgia Stormwater Management Guidebook for Residents and Small Businesses



What words come up most frequently when talking to residents?

Residents describe both physical impacts and uncertainty about responsibility.

Responsibility & ownership

Flooding

Drainage & maintenance

Frustration & help

Erosion

Costs & taxes

Sinkholes

**Development
impacts**

Buffers & easements

Water quality & odor

What topics are most important to cover in this guidebook?

The guidebook should translate technical requirements into practical homeowner action.

01 Practical solutions

DIY drainage, who to call, common fixes, and clear “things not to do.”

02 Maintenance guidance

Detention ponds, private ditches, inspection, repair, replacement, and O&M agreements.

03 Roles and responsibility

Public vs. private systems, easements, drainage between properties, and limits on public action.

04 Permitting and regulation

Permits, floodplains, buffers, variances, infrastructure vintage, and regulatory limits.

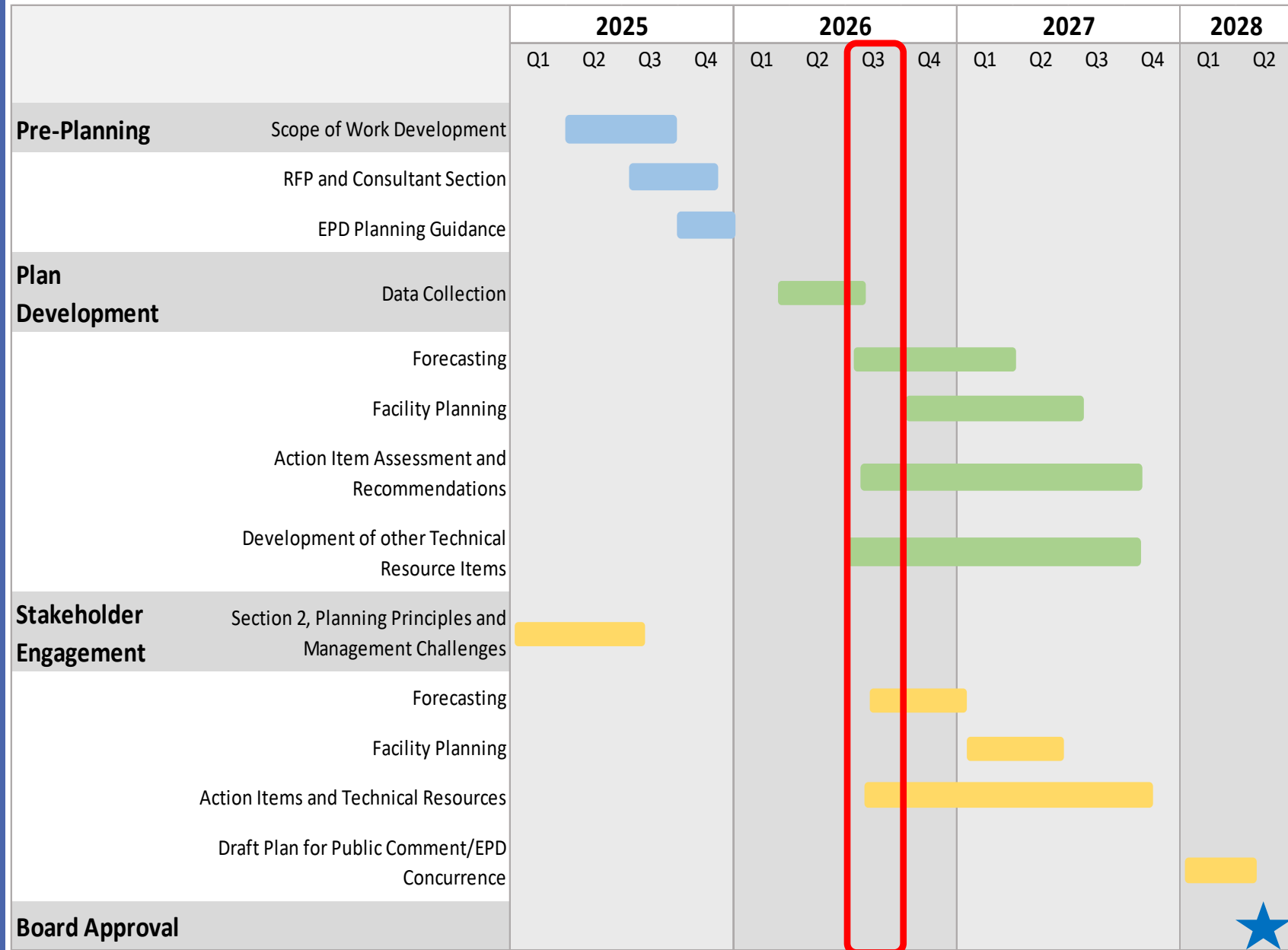
05 BMP design and installation

Sizing, velocities, stabilization, small-scale runoff reduction, training, and qualified professionals.

06 How water behaves

Downhill flow, soggy yards, storm-drain pathways, erosion, nutrients, and natural drainage features.

2028 Water Resources Management Plan Schedule





Adjourn
