



# Georgia Data Analytics Center

FY 2025 Annual Report

## TABLE OF CONTENTS

<b>Executive Summary</b> .....	<b>1</b>
GDAC Quick Facts.....	2
GDAC Data Governance.....	3
Georgia All Payer Claims Database (APCD).....	3
<b>GDAC Data Lake</b> .....	<b>4</b>
Infrastructure Additions in FY 2025.....	5
FY 2025 Fiscal Year Highlights .....	6
Looking Towards the Future.....	6
<b>GDAC Strategic Goals</b> .....	<b>7</b>
<b>GDAC Data Inventory</b> .....	<b>8</b>
<b>GDAC Dashboards Overview</b> .....	<b>9-12</b>
Georgia Medical School Matching.....	9
State of Georgia Opioid Treatment Facilities and Pain Management Clinics.....	10
Emergency Medical Services Education Enrollment .....	11
State of Georgia Optometry Workforce.....	12

## Executive Summary

The **Georgia Data Analytic Center (GDAC)** housed within the Office of Planning and Budget (OPB) was established by House Bill 197 during 2019 legislative session. Its purpose is to serve as a centralized data repository that securely receives, manages, and transmits data in compliance with HIPAA privacy and security regulations. GDAC partners with state agencies to provide enhanced analytic capacity and capabilities through its robust data lakehouse architecture. Thanks to the support from the General Assembly and the Office of Planning and Budget, GDAC has become a key resource for the State of Georgia by making data more accessible, transparent, and by providing actionable insights to inform policymakers and researchers.

In Fiscal Year 2025, with support from the Georgia Technology Authority (GTA), and the Office of Health Strategy and Coordination (OHSC), GDAC focused heavily on infrastructure and security enhancements including strengthening policies and procedures for audit readiness with an emphasis on NIST800-53 rev 5 controls, leveraging advanced tools like CrowdStrike, and architecture enhancements. These efforts have been a big push towards improving our overall security posture and fostering greater collaboration across the state.

Executive Order 09.01.2023 directed GDAC to:

- 1.) Facilitate the data exchange process between the state executive agencies and departments and
- 2.) Establish a data-sharing agreement template and a data-sharing request template and standardize the data sharing process within the state.

GDAC conducted a statewide executive agency survey. Of the 36 agencies surveyed, 14 agencies reported no new DSAs in FY 2024 and 8 agencies submitted data sharing agreements executed in FY 2024. These agreements are added to the DSA library on the Data Governance SharePoint site. GDAC is conducting a second agency survey for FY2025, with over 33 responses received at the time of this report.

GDAC has onboarded two new agencies, the Georgia Department of Veterans Service and Georgia Vocational Rehabilitation Agency to the GDAC Data Governance this year. GDAC is working closely with these agencies to provide data analytic and data management solutions to make current processes more efficient and effective.

GDAC is collaborating closely with the State Accounting Office (SAO) and its vendors on migration from PeopleSoft to the Workday platform. In close partnership with SAO teams GDAC requested custom data integrations within the new GA@Work system, developed data pipelines for the data ingestions and performed thorough testing of these human capital management data integrations.

GDAC is strategically positioned to continue supporting the State of Georgia through its robust, secure modern cloud infrastructure. We are excited to continue our partnerships with State agencies to provide valuable insights and continue data assistance. GDAC conducted a Data Stewardship for Artificial Intelligence (AI) workshop during the 2024 Georgia Emerging Technology Summit. Best practices for managing, protecting, and ethically utilizing data in AI applications were explored. As we look ahead, with the development of Artificial Intelligence (AI), the GDAC team is prepared to learn and leverage the power of AI to further enhance GDAC's capabilities to provide solutions and support to the State of Georgia.



GDAC

Georgia Data Analytics Center

# QUICK FACTS

FY 2025 Budget: \$1.9m

## Georgia Data Analytics Center

**House bill 197**  
established during  
**2019** legislative  
session, O.C.G.A.  
45-12-150

Data Sharing  
Agreements  
(DSAs)  
65+ Executive  
Agency DSAs  
15 GDAC DSAs

**Growing Partners**  
30+ State Entities  
Small Team  
5 Employees

**Growing Lake**  
320+ - Datasets  
4 TB - Data Size  
40 K - Files  
Ingested

## Modern Infrastructure

**Georgia All Payer  
Claims Database  
(APCD)**

- Q1 2025 ingested in April [300 GB / 8.93 billion records]
- Data Requests for a fee.

Tableau upgraded  
Workspaces Directories  
Revision  
DB Automated  
Password Rotations

NIST800-53 Compliance  
HIPAA Compliance  
Continuous Cloud  
Monitoring

CrowdStrike endpoint  
security enabled  
Security Audit Ready  
Security policies and  
procedures  
Operating System  
Hardening

## Data Analytics

29 public facing  
dashboards

29 OPB Internal  
dashboards

10 secured  
dashboards for  
key stakeholders  
and state  
legislators

Data Pipeline  
Enhancements  
GA@Work Data  
Integrations  
Automated Data  
profiling  
Data Observability  
Cloudwatch / Cloudtrails

## **GDAC Data Governance**

GDAC welcomed Department of Community Health (DCH) agency partners Chad Purcell- Chief Information Officer and Daphanie Keit, Executive Director-Office of Analytics and Program Improvement (OAPI), as GDAC Data Governance Chair and Co-Chair in FY 2025.

These resources were key as GDAC explored data governance tools to continue its commitment to an effective data governance structure and data management strategy. A proper data cataloging tool is critical to GDAC data governance in ensuring data is accurate, consistent, and accessible across agencies.

GDAC continues to hold quarterly data governance meetings keeping members abreast of improved technology implementations and policies while encouraging the submissions of agency use cases and data inventories.

## **Georgia All Payer Claims Database (APCD)**

GDAC's state of the art environment for the Georgia All Payer Claims Database (APCD) went through major enhancements in FY 2025. This private and secure analytics environment hosted by GDAC is accessible to the researchers at the Georgia Technology Research Institute (GTRI), who released [several health data use cases](#) and are working on new use cases in FY 2025.

In partnership with the Office of Health Strategy and Coordination (OHSC), GDAC implemented the Observational Health Data Sciences and Informatics ([OHDSI](#)) platform to bring out the value of these health data through analytics. The quarterly data ingested in January 2025 had 8.5 billion records, and in April 2025, GDAC ingested 8.93 billion records from the APCD data collections vendor. With the inclusion of many new payers, these data have almost doubled this year.

GDAC's modern data pipelines not only ingested vast amounts of data but also transformed and standardized these data into common data models for research analytics. This is a testimonial to the efficiency with which GDAC manages its data operations within the state. The Center continually monitored the research and analytics environment throughout the year and upgraded the analytics environments and scaled the databases for the use cases.

In FY 2025, Georgia's All Payer Claims Database hosting environment underwent significant security enhancements. In collaboration with the Georgia Technology Authority's (GTA) Information Security Office, and a vendor partner selected through a statement of need, GDAC conducted a comprehensive audit readiness process. As part of this security initiative, a system security plan was developed, cloud continuous monitoring was reinforced, and an incident response planning process was implemented. Additionally, several compliance policies were developed, and procedures were established.

Beyond policy and procedural improvements, infrastructure automation was leveraged to align servers with Center for Internet Security (CIS) benchmarks. Security analysts now continuously monitor cloud trails, generating ServiceNow tickets to address any issues. Furthermore, software vulnerabilities are consistently monitored and reported for the GTA Security Operations team to review.

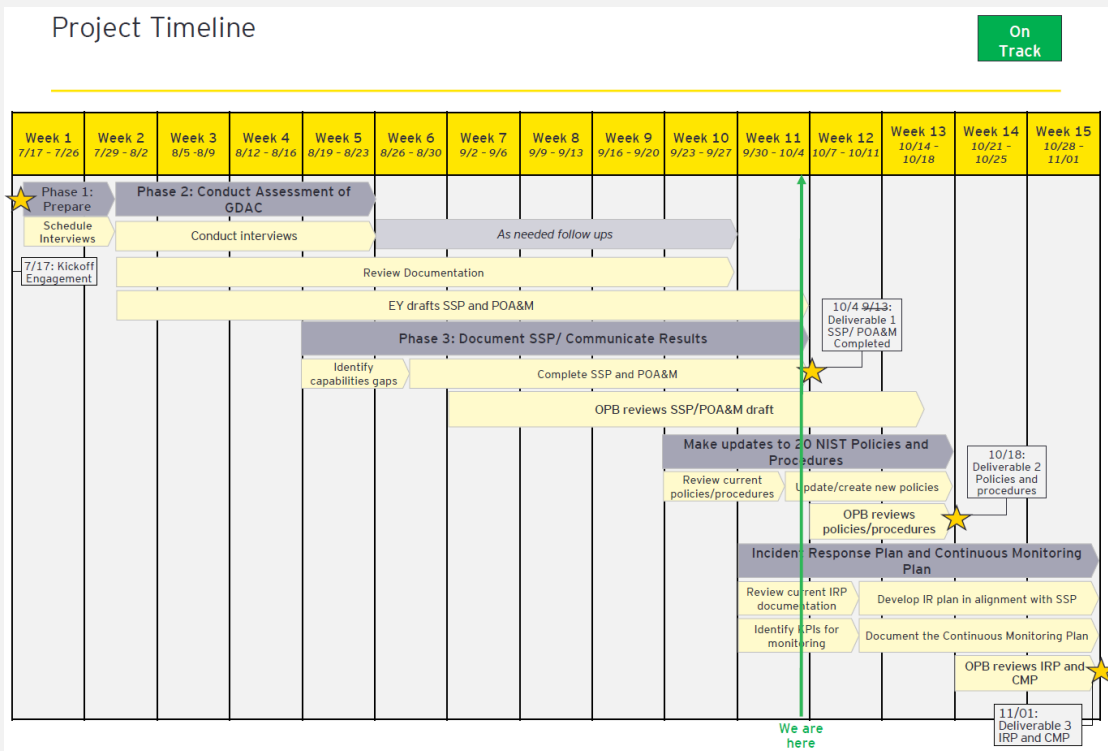
## GDAC Data Lake

In FY2025, GDAC maintained active engagement with executive state agency partners, consistently communicating the value of its secure, modern data capabilities and service offerings, and encouraging state divisions and departments to utilize its secure and audit ready data services.

Enterprise Governance, Risk, and Compliance (eGRC) is a strategic approach that enables organizations to effectively manage risk, governance, and compliance by establishing structured policies and procedures.

In FY2025, GDAC spent six months working alongside the Georgia Technology Authority's Information Security Office and a vendor partner to strengthen its risk, compliance, and security management framework—updating policies, procedures, and tools to align with **NIST 800-53** standards. GDAC has implemented and strengthened cloud continuous monitoring through advanced technology solutions, including **CloudTrail, CloudWatch, GuardDuty, CrowdStrike, and Splunk**.

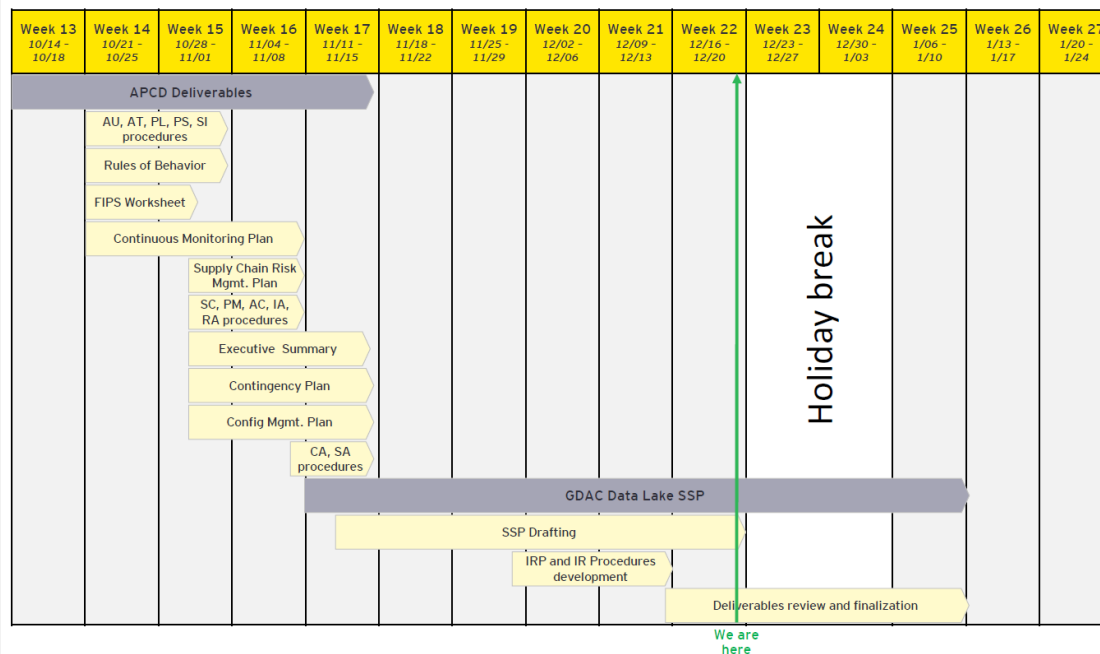
### Project Timeline



GDAC remains committed to adopting industry best practices for security and compliance, reinforcing long-term trust with state agency partners, key stakeholders, and executives.

## Project Timeline

On Track



## Infrastructure Additions in FY2025

- **Secure File Transfer Server:** Implemented for the All-Payer Claims Database (APCD) to facilitate data distribution, generating revenue for the State of Georgia.
- **Automated Password Rotation:** A security feature ensuring database passwords are automatically rotated to comply with **NIST 800-53 security controls**.
- **Operating System Hardening:** Applied **Center for Internet Security (CIS) benchmarks** to enhance system security.
- **Enhanced Workspace Management:** Created new workspace directories to improve observability and streamline troubleshooting.
- **Workspace Image Upgrades:** Updated workspace images to remediate vulnerabilities identified by **CrowdStrike**.
- **System Upgrades & Backup Improvements:** Upgraded **Tableau Server** and **PostgreSQL**, with enhanced automated and customized recurring backups.
- **Continuous Monitoring Enhancements:** Strengthened GDAC's monitoring framework with **AWS Inspector, CloudWatch, and custom CloudTrail's** for improved security oversight. GTA Security analysts monitor security dashboards closely and create Service Now tickets when closer attention required.

## **GDAC Fiscal Year 2025 Highlights**

- GDAC conducted rigorous security audit readiness exercise in partnership with the Georgia Technology Authority Chief Information Security Office, to accurately assess and enhance security practices.
  - A comprehensive System Security Plan (SSP), incident response plan (IRP), along with supporting security policies, procedures, and ancillary plans were developed.
- All Payer Claims Database (APCD)- 8.93 billion records ingested (largest health data)
  - GDAC's All Payer Claims Database (APCD) analytics platform data requests processed.
- Opioid Treatment Facilities and Pain Management Clinics dashboards released with enhancements to Emergency Medical Services Workforce/Education dashboards.
- Georgia Medical School Match and Optometry Workforce dashboard released.
- Department of Community Health
  - GDAC conducted extensive exploratory data analysis of Medicaid datasets.
  - Submitted high level visualizations for executive review to health agencies.
- GDAC Team participated in data engineering and machine learning engineering training.
- GDAC conducted a Data Stewardship for Artificial Intelligence (AI) workshop for state agencies.
  - GDAC is fully equipped with modern processes to prepare data for advanced analytics and artificial intelligence (AI).
- GDAC Workspaces security enhancements and operating system upgrades.

## **Looking Towards the Future**

As GDAC concludes another year, we are thankful for the continued partnerships with agencies, the collaboration in getting the GDAC infrastructure audit ready, and the significant strides we've made in improving our technologies. Throughout the year the team remained committed to learning and exploring as we continued to build a strong foundation for sustainable growth.

As we move into the next fiscal year, we are excited about the opportunities ahead and are dedicated to achieving an even greater impact on the State, making GDAC a highly sought-after agency partner for analytic solutions through collaboration, development, and the responsible use and exploration of emerging technologies.



## GDAC Strategic Goals FY 2026

GDAC Strategic Goals	
Data Governance	<ul style="list-style-type: none"><li>✓ Ensure effective data management by streamlining data submissions, data requests and data access policies and procedures.</li><li>✓ Facilitate data inventory and use-case submissions to GDAC.</li><li>✓ Document and publish data governance policies and procedures.</li><li>✓ Build data dictionaries and data catalogs.</li><li>✓ Standardize data definitions and glossaries.</li><li>✓ Data Lake data governance services exploration.</li></ul>
Policy	<ul style="list-style-type: none"><li>✓ Work with legislatures and policy makers to facilitate smoother data sharing with GDAC.</li><li>✓ Facilitate agency data inventory and use case submissions to GDAC.</li><li>✓ Ensure long-term sustainability for GDAC.</li><li>✓ Automated and continuous monitoring enabled.</li></ul>
Agency Partners	<ul style="list-style-type: none"><li>✓ Grow data inventory and agency use cases.</li><li>✓ Continue recruiting Data Governance committee members.</li><li>✓ Participate in GDAC Data Governance.</li><li>✓ Review and provide data and analytics feedback.</li></ul>
GDAC	<ul style="list-style-type: none"><li>✓ Track new data and use case requests.</li><li>✓ Continually ingest new data and build data analytics.</li><li>✓ Maintain and enhance GDAC data architecture.</li><li>✓ Build modern automated models and insights.</li><li>✓ Public data publications and monthly analytics updates.</li></ul>
Technology	<ul style="list-style-type: none"><li>✓ Work with Georgia Technology Authority to manage cloud operations.</li><li>✓ Manage security control policies and guardrails.</li><li>✓ User and account permission management.</li><li>✓ Cloud service reviews.</li><li>✓ Remain abreast of emerging technologies.</li></ul>

## Data Inventory

GDAC receives data from several agencies and departments and maintains over 320 aggregated data tables. GDAC utilizes personally identifiable information (PII) to match individual data across data sets. The PII data are restricted to this data integration only, these data sets will not be part of the data analytics and any purpose-built datasets.

### Aggregated Data Tables

Organization	Data Type
Board of Regents University System of Georgia	Human Capital Management Data, USG Pell
Centers for Medicare & Medicaid Services	Medicaid Health Care Quality Measures, Medicaid Drug Utilization
Department of Administrative Services (DOAS)	State Agency Worker's Compensation Data, State Owned Motor Vehicle Data, Risk Pools
Department of Community Health (DCH)	State Health Benefit Plan (SHBP), Hospital Financial Survey, Medicaid, Healthcare Workforce, Pain Management Clinics, Opioid Treatment Facilities, Georgia Match and Graduate Medical Education
Department of Community Affairs (DCA)	Section 8 participation by county data
Department of Corrections (GDC)	GDC Offender Roster
Department of Driver Services (DDS)	Driver's License Data
Department of Education (DOE)	Quality Basic Education (QBE) Funding, School Expenditure Data, FTE Data, K12 Student Data, CPI
State Charter Schools Commission (SCSC)	Charter Schools Performance Data
Department of Housing and Urban Development (HUD)	Qualified Census Tracts (QCT)
Department of Human Services (DFCS/DHS)	Foster Care Data, P-EBT, SNAP, TANF, GSU P-EBT, Longitudinal Data Project (LDP) Client and Case Data (SNAP)
Department of Public Health (DPH)	Mortality and Birth Rates; Opioid Data; EMS Workforce; EMS Education Programs
Department of Revenue (DOR)	Sales and Use Tax Data, Tax Returns, Vehicle Registration, Tax Credits, NAICS historical data
Employees Retirement System (ERS)	Employee Tenure Data
Georgia Peace Officers' Standards and Training Council (GAPOST)	Emergency Medical Technicians (EMT) Data
Georgia Technology Authority (GTA)	Call Center Data
Georgia Vocational Rehabilitation Agency	Students with Disabilities
Governor's Office of Student Achievement (GOSA)	Criminal Justice Majors
House Budget and Research Office / Office of Planning and Budget	Budget and Appropriations (BATS) Data
Office of Planning and Budget   Grant Care	Covid Relief Funds Data (CRF), Nursing Home Obligations, FRL, TCSG/USG Pell, Population Estimates, American Rescue Plan Act (ARPA), PBCS
Office of Planning and Budget   Office of Health Strategy and Coordination	All Payer Claims Database (APCD)
Secretary of State (SOS)	Voter Registration
State Accounting Office (SAO)	Teamwork's - Financials & Human Capital Management (HCM) Data, GA@WORK – Human Capital Management Test Data
State Property Commission (SPC)	Building, Land and Lease Inventory of Property (BLLIP) Data
Teachers Retirement System (TRS)	Employee Tenure Data
Travel Incorporated	Car, Air, and Hotel Travel
US Department of Transportation (USDOT)	VIN Information

## GDAC Dashboards Overview

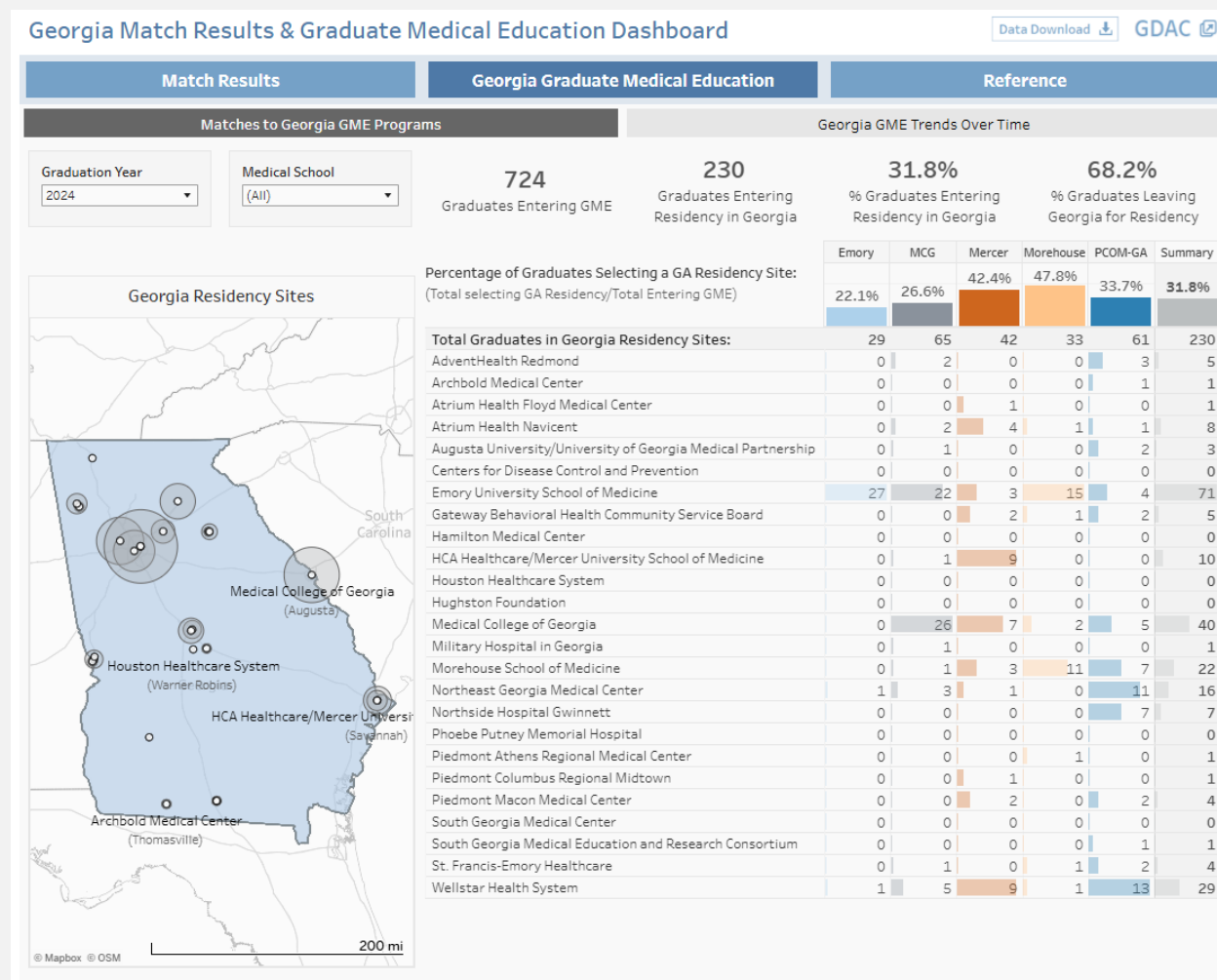
### FY 2025 Analytics Inventory Added

For the complete inventory of GDAC dashboards visit [gdac.georgia.gov](https://gdac.georgia.gov)

### Georgia Medical School Matching

GDAC receives match data from the Georgia Board of Health Care Workforce.

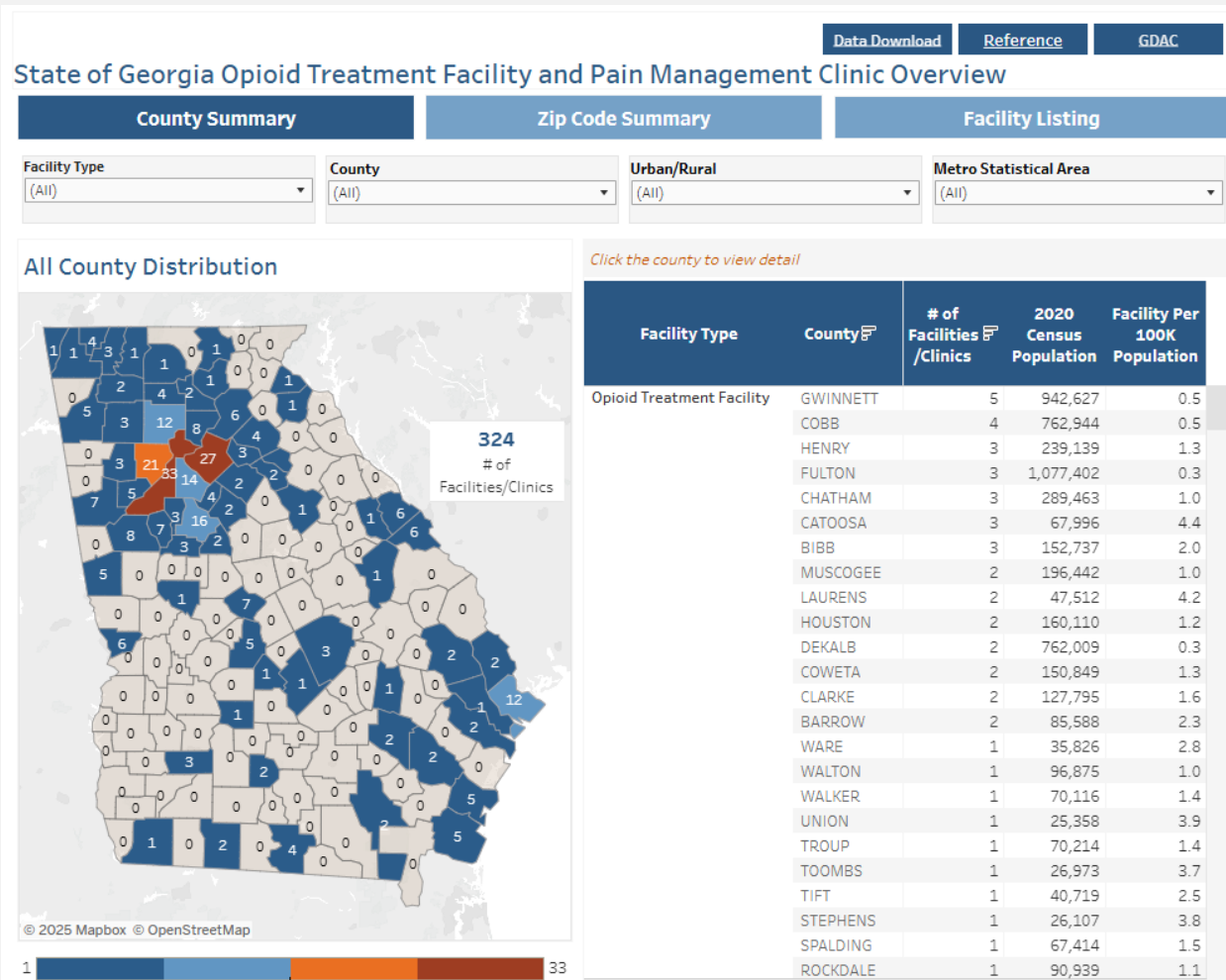
Every year, students graduating from medical school enter the “match” process. Match is an annual process administered through the National Resident Matchin Program that “matches” medical students with residency programs so graduates can continue their training in a residency program. This dashboard allows users to view medical school graduates by year, school, and primary care/core or non-primary/core specialties.



## State of Georgia Opioid Treatment Facilities and Pain Management Clinics

Opioid treatment facility data was added to the existing Pain Management clinics dashboard during FY 2025.

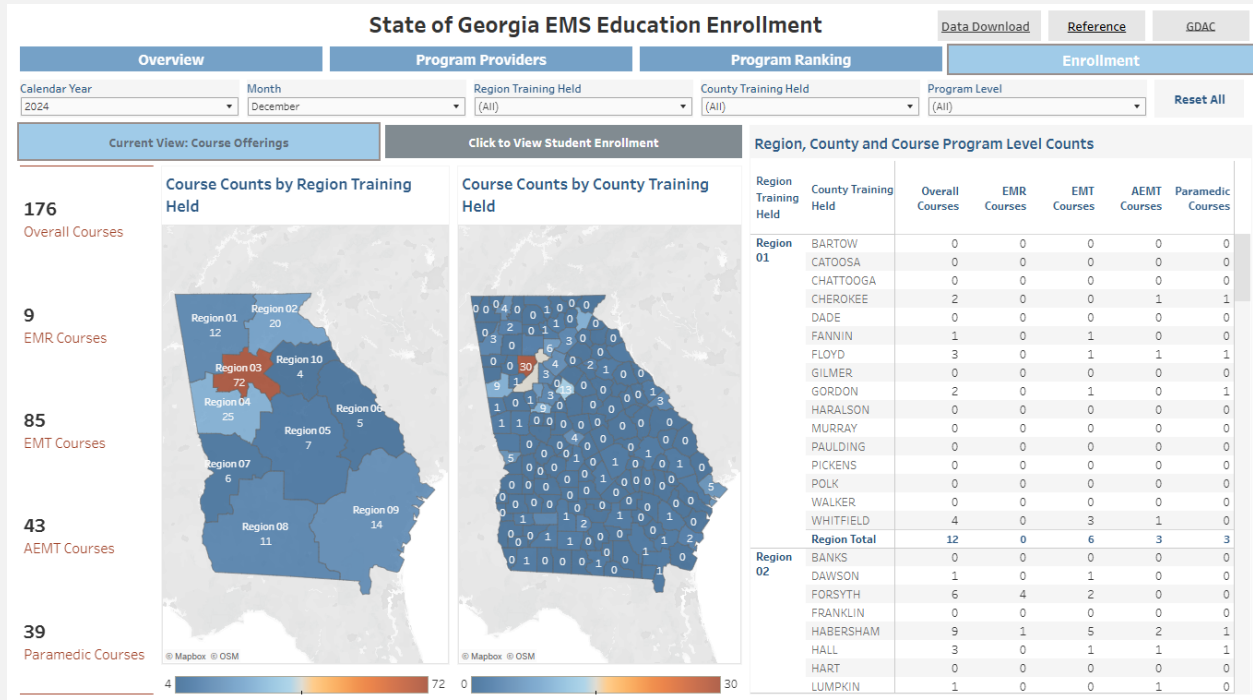
There are 74 opioid treatment facilities licensed in Georgia engaged in the treatment of individuals with an opioid agonist treatment (OAT) medication. This dashboard allows users to access where these facilities are located and provides a detailed listing of each clinic by county, zip code, and full address. Opioid treatment facilities span across 50 of Georgia's 159 counties. Approximately 81% of the facilities are in urban areas (which comprise 37 counties) compared to rural areas (13 counties).



## Emergency Medical Services Education- Enrollment

GDAC obtains Emergency Medical Education (EMS) data from the Department of Public Health's Office of EMS and Trauma.

The Emergency Education Services Education dashboard was enhanced in FY 2025 to include enrollment. The dashboard allows users to view current and ongoing courses, and all students currently enrolled in a designated initial EMS education program across Georgia. Additional options to view program level (AEMT, EMR, EMT, Paramedic, etc.), and the regions and counties where courses are held are also included.



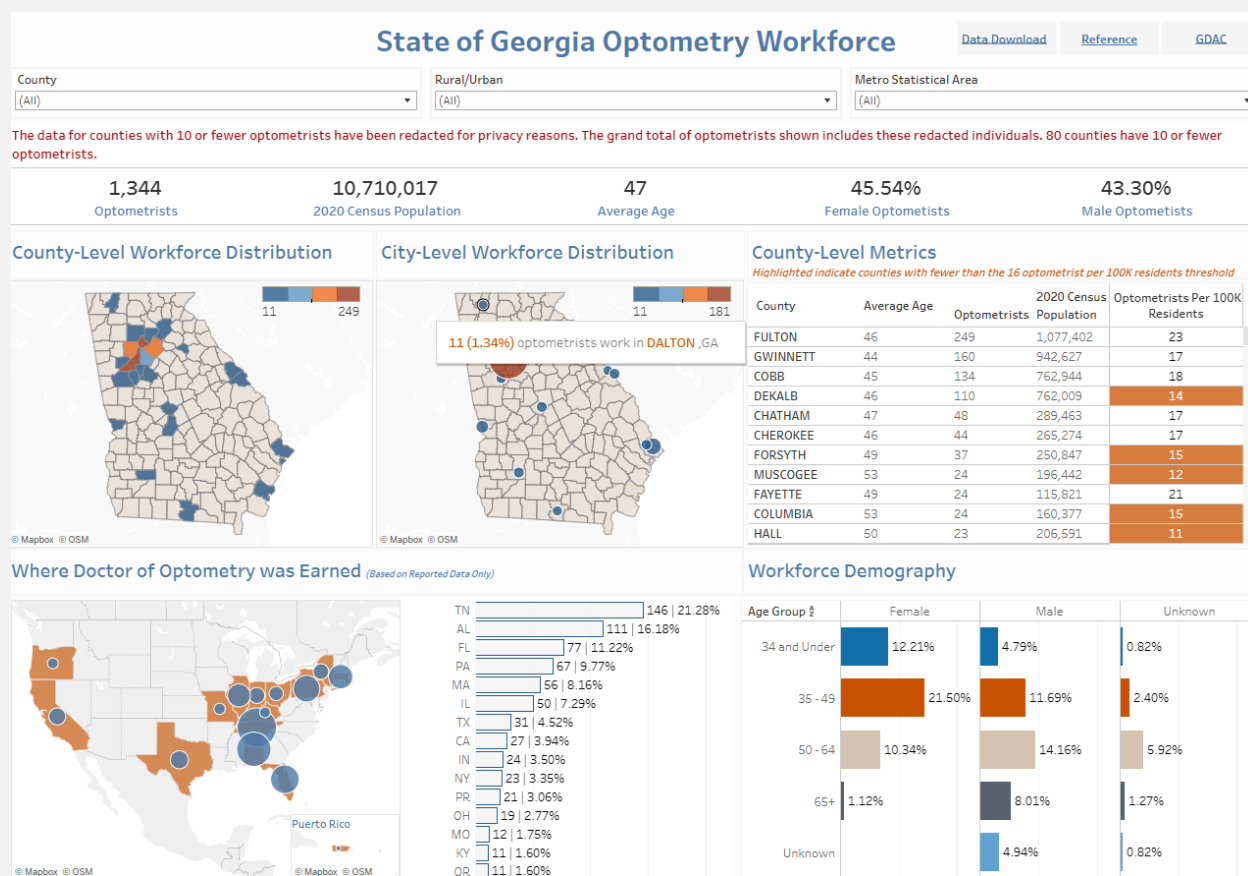
## State of Georgia Optometry Workforce

The State of Georgia Optometry Workforce dashboard allows users to monitor the distribution of Georgia's actively licensed optometry workforce. The dashboard includes optometrists and population statistics at the county and city level.

In 2024, there were 1344 actively practicing optometrists in Georgia, with an average age of 47. The demographic breakdown of these optometrists was 45.54% female, 43.30% male, and 11.16% unknown.

Based on reported education data, the largest percentage of actively practicing Georgia optometrists earned degree in Tennessee (21.01%), with Alabama being the next most common state (15.97%). Georgia does not have any optometry education institutions.

GDAC receives optometry data from the Georgia Board of Health Care Workforce.



[gdac.georgia.gov](http://gdac.georgia.gov)

2 Capitol Square

Atlanta, GA 30334