

GEORGIA AIRPORTS MEAN BUSINESS



# GEORGIA

STATEWIDE AVIATION SYSTEM PLAN

SUMMARY REPORT FOR  
**BRANTLEY COUNTY**  
**AIRPORT**



GEORGIA AIRPORTS MEAN BUSINESS

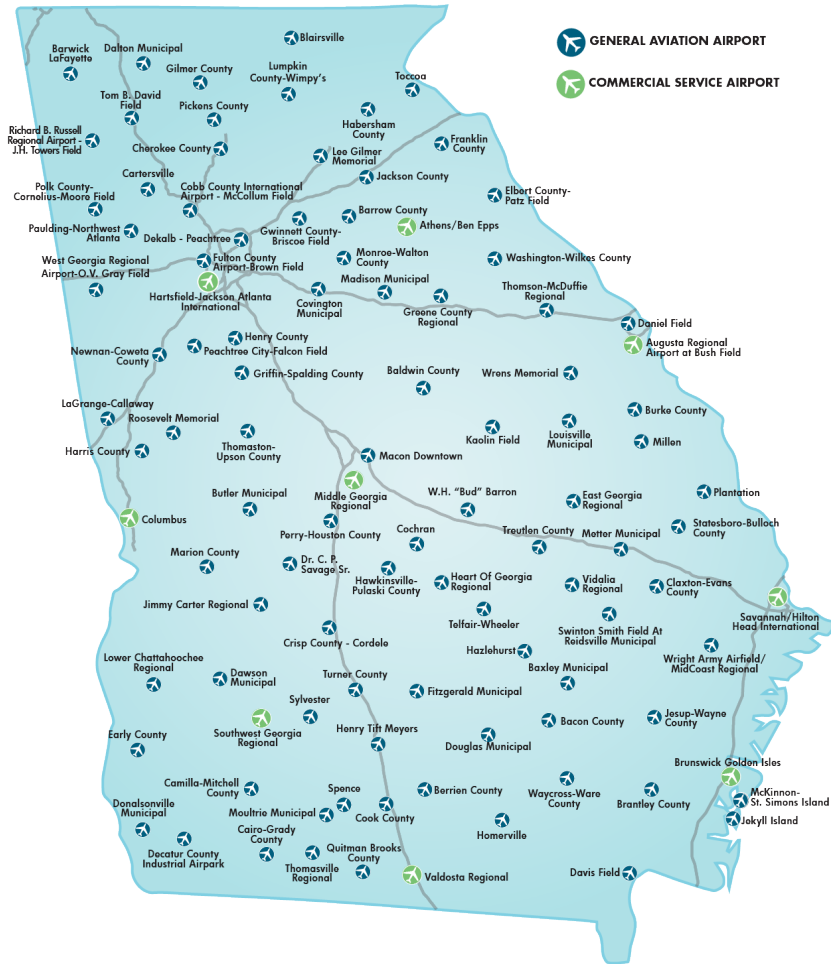


# OVERVIEW

The Georgia Department of Transportation, Aviation Programs Office, has recently completed an update to the Georgia Statewide Aviation System Plan (GSASP). This report provides a summary of information from the GSASP and highlights important information from the study as it pertains specifically to Brantley County Airport (4J1). This report provides the following:

- » System Planning Process and Uses for the Plan
- » Georgia Airport Levels
- » Background Information for the Airport
- » Recommended Level for the Airport
- » Comparative Performance for the Airport
- » Outlook for Aviation Demand
- » Other GSASP Efforts
- » Local Governments Adjacent to the Airport with Land Use Controls
- » Airport Control of Runway Protection Zones
- » Airport Report Card and Recommendations

## EXISTING GEORGIA AIRPORT SYSTEM 2017



More information on the Georgia Statewide Aviation System Plan can be obtained from the GDOT Aviation website at [www.dot.ga.gov/IS/AirportAid/AviationSystemPlan](http://www.dot.ga.gov/IS/AirportAid/AviationSystemPlan). In addition to the complete Technical Report, a statewide Executive Summary and Summary Video were also produced to support the GSASP. More information on all GSASP-related products can be obtained from GDOT Aviation by emailing [aviationprograms@dot.ga.gov](mailto:aviationprograms@dot.ga.gov).

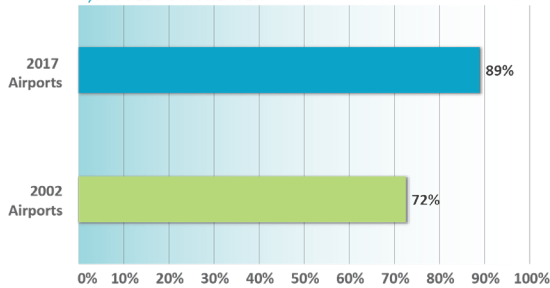
# THE SYSTEM PLANNING PROCESS AND USES FOR THE PLAN

The process used to update the GSASP was consistent with FAA’s Advisory Circular 150/5070-7 - *The Airport System Planning Process*. Ultimately, the GSASP recommendations for Brantley County Airport are a blend of projects/actions identified by the system plan and projects related to pavement maintenance and rehabilitation from Georgia’s 2012 Statewide Airfield Pavement Management Study. An update to the Statewide Airfield Pavement Management Study began in 2018; when that analysis is completed, additional projects in the pavement management and maintenance categories will likely be identified for the Airport.

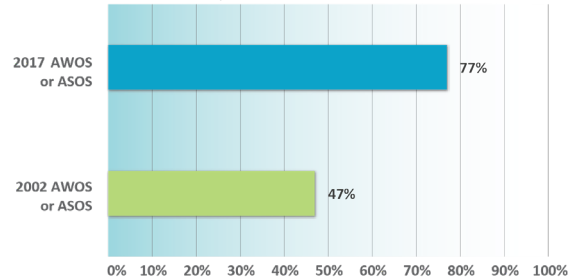
The GSASP is important because it gathers information on current activity, facilities, and services at the 103 study airports. One objective for this update was to provide information showing how the system has changed since the 2002 GSASP was published. As shown in the graphics below, GDOT, FAA, and local investments at system airports have significantly elevated statewide system performance for the measures shown here.

## CHANGES IN GEORGIA AIRPORT SYSTEM PERFORMANCE

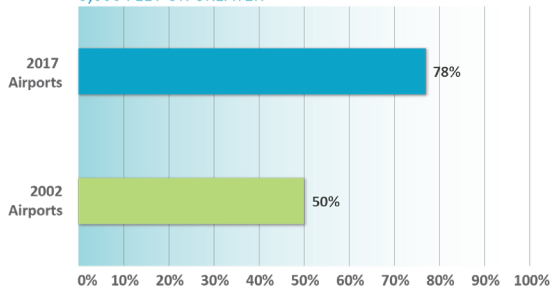
PERCENTAGE OF AIRPORTS WITH A RUNWAY LENGTH OF 4,000 FEET OR GREATER



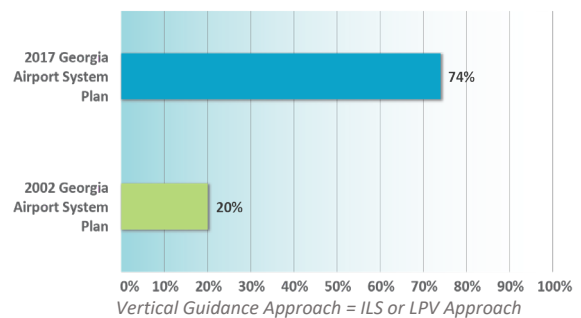
PERCENTAGE OF AIRPORTS WITH WEATHER REPORTING EQUIPMENT



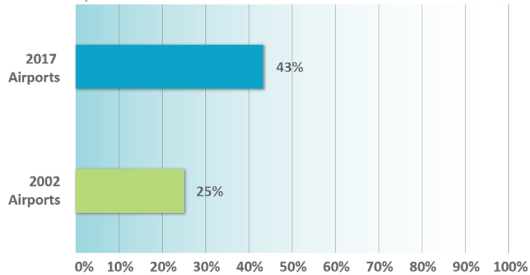
PERCENTAGE OF AIRPORTS WITH A RUNWAY LENGTH OF 5,000 FEET OR GREATER



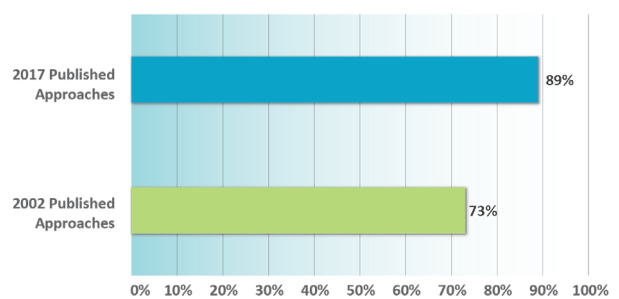
PERCENTAGE OF AIRPORTS WITH A VERTICAL GUIDANCE APPROACH



PERCENTAGE OF AIRPORTS WITH A RUNWAY LENGTH OF 5,500 FEET OR GREATER



PERCENTAGE OF AIRPORTS WITH A PUBLISHED APPROACH



# GEORGIA AIRPORT LEVELS

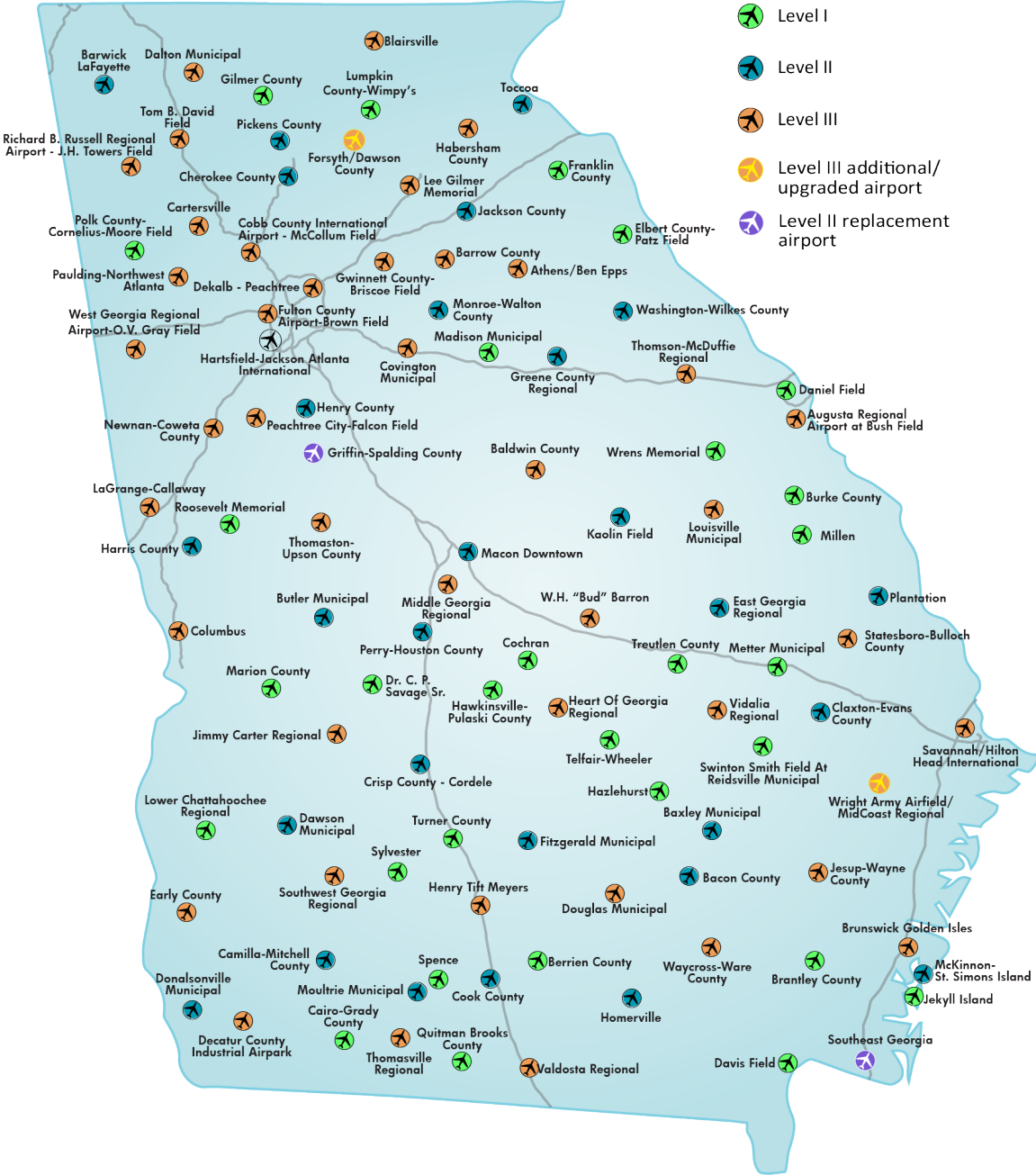
The Statewide Aviation System Plan was last published in 2002. Since that time, Georgia airports have made significant progress toward meeting the GSASP performance measures. This update to the GSASP reset the bar for future system performance. This included identifying projects for individual airports that are needed to improve system performance in the coming years. It also included evaluating current state system planning levels for all system airports and determining if airport assigned levels should change to improve overall system accessibility and performance. The GSASP update also addressed the need for additional or replacement system airports. Each of the 103 airports was assigned to one of the following levels:

## AIRPORT LEVELS

<b>LEVEL I</b>	<b>Minimum Standard General Aviation Airport:</b> Level I facilities support a reasonable percentage of the general aviation fleet, including small business aircraft. Level I is recognized as the minimum to which airports in the system are recommended to develop. Objectives recommend a minimum runway length of 4,000 feet.
<b>LEVEL II</b>	<b>Business Airport of Local Impact:</b> Level II airports should be capable of accommodating all business and personnel use single- and twin-engine general aviation aircraft and 85% of business jet aircraft. The minimum runway length objective for Level II airports is 5,000 feet.
<b>LEVEL III</b>	<b>Business Airports of Regional Impact:</b> Level III airports are defined as the existing air carrier airports and general aviation airports that have a regional business impact. These airports are recommended to have at least 5,500 feet of runway and precision-like approaches to accommodate 95% of business jet aircraft.

A map of the recommended levels for airports in the Georgia system is shown on the next page. For the most part, after a thorough review of the existing system, current roles are unchanged. System plan recommendations include one new Level III airport, one airport upgraded from Level II to Level III, and two new Level II replacement airports. It is important to note that the identified level for each airport is the airport’s minimum recommendation; an airport’s actual facilities are determined by the airport owner or owners.

## RECOMMENDED LEVELS FOR GEORGIA AIRPORTS



Source: Jviation

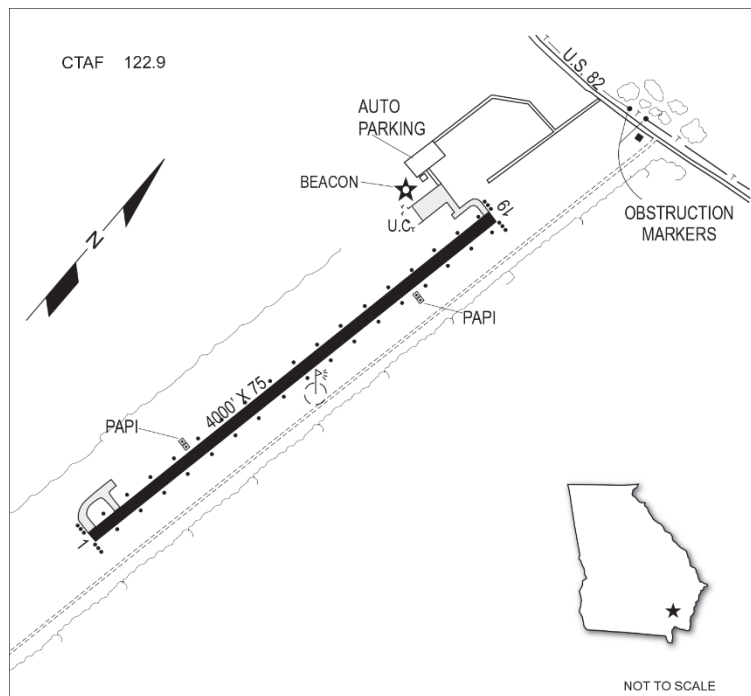


## BACKGROUND INFORMATION FOR BRANTLEY COUNTY AIRPORT

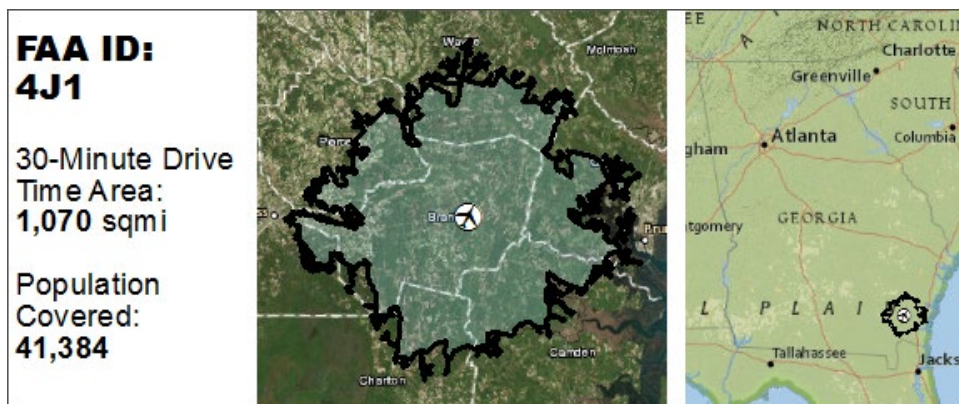
Brantley County Airport is located in Brantley County in the southeastern part of Georgia approximately 37 miles west of Brunswick and 23 miles east of Waycross. The primary highway access to the Airport from the east and west is via US 82/Georgia Highway 520. Other highways in the vicinity include US Highway 301 and Georgia Highway 23.

The Airport, situated on 59 acres, is owned and operated by Brantley County. The Airport accommodates a variety of aviation-related activities including recreational flying, agricultural spraying, and police/law enforcement.

### AIRPORT DIAGRAM



### 30-MINUTE DRIVE TIME SERVICE AREA AND POPULATION



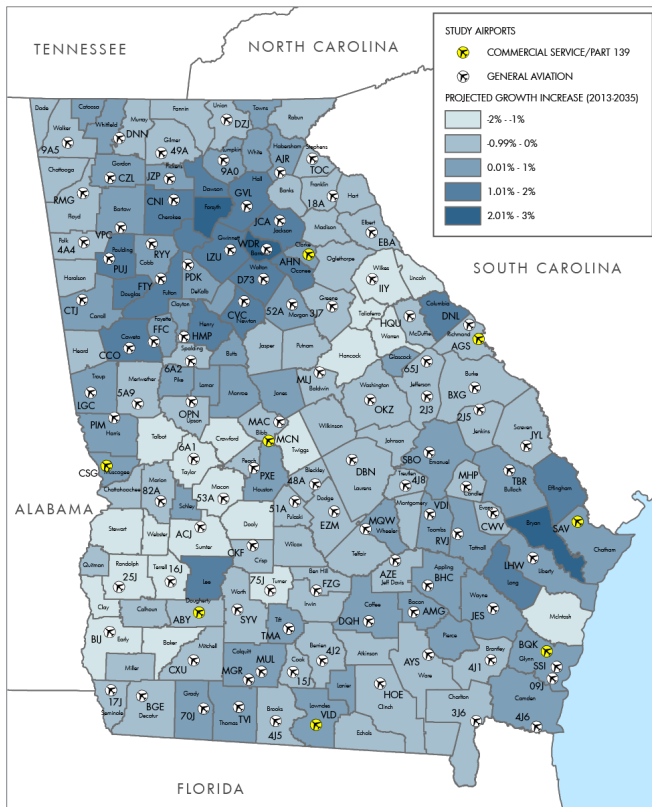
Source: Moffatt & Nichol

Assigned levels for Georgia airports consider the characteristics of the area the airport serves. Analysis for the GSASP was conducted using a geographic information system (GIS) and a 30-minute drive time for each airport. The county's population growth rate is expected to be just below average, while employment growth is expected to be within the state average. Georgia's projected average annual rate of growth for population is between 0.5% and 1.49%; for employment, the average is between 0.998% and 1.39%.

Brantley County	
<b>Projected Population Growth</b>	
2013*	18,292
2035	19,854
2013-2035	0.37%
<b>Projected Employment Growth</b>	
2015*	3,753
2035	4,840
2015-2035	1.28%

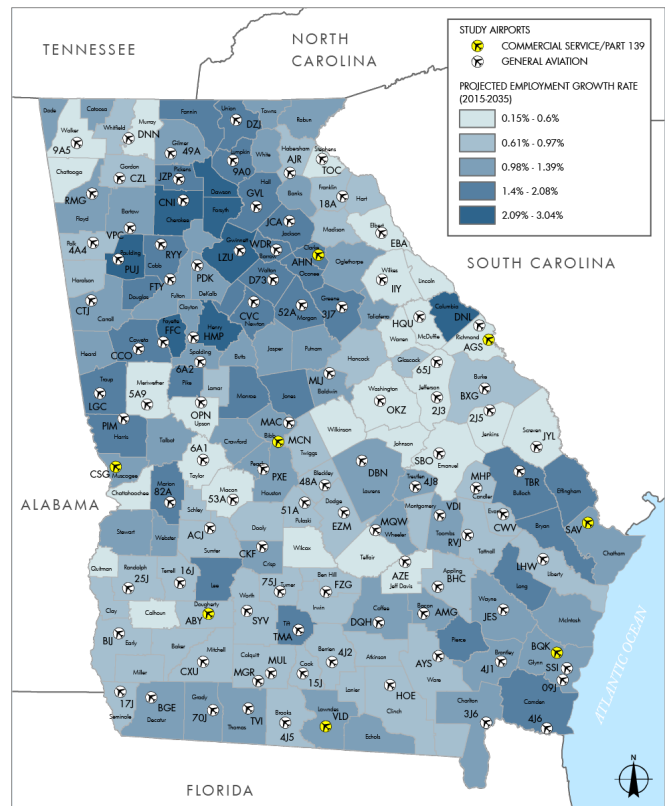
\*Reported as current

## PROJECTED POPULATION GROWTH



Source: Georgia Governor's Office of Planning and Budget, 2015 Series

## PROJECTED EMPLOYMENT GROWTH



Source: Woods & Poole, 2017



# RECOMMENDED LEVEL FOR BRANTLEY COUNTY AIRPORT

Brantley County Airport has been assigned to Level I within the Georgia airport system. As a Level I airport, the GSASP has identified certain facilities and services that should ideally be in place at the Airport. These objectives are considered the “minimums” to which the Airport should be developed. Based on local needs/justification, it is quite possible that the Airport could exceed its minimum development objectives established in the GSASP. Brantley County Airport’s specific objectives, as they pertain to the Airport’s Level I role in the state airport system, are listed below.

## OBJECTIVES FOR LEVEL I – MINIMUM STANDARD GENERAL AVIATION AIRPORT

### Airside Facilities

- » **Runway Length:** Minimum 4,000 feet
- » **Runway Width:** 75 feet
- » **Taxiway:** Full parallel desirable; turnarounds at each end minimum objective
- » **Lighting Systems:** MIRL and MITL
- » **Approach:** Non-Precision
- » **NAVAIDS/Visual aids:** Rotating beacon, segmented circle and wind cone, PAPIs, others as required for non-precision approach
- » **Weather Reporting:** AWOS or ASOS desirable but not an objective for Level I
- » **Runway Pavement Strength:** 12,500 pounds single-wheel
- » **Fencing:** Operations area at a minimum; entire airport desirable

### General Aviation Facilities

- » **Hangared Aircraft Storage:** 60% of based aircraft fleet
- » **Apron Parking/Storage:** 40% of based aircraft fleet plus an additional 25% for transient aircraft
- » **Terminal/Administration:** 750 square feet enclosed space for public use with restrooms
- » **Auto Parking:** One space for each based aircraft plus an additional 25% for visitors/employees

### Services

- » **Fuel:** AvGas and/or Jet fuel as required
- » **FBO:** Limited service

## COMPARATIVE PERFORMANCE BRANTLEY COUNTY AIRPORT

One objective for the system plan update was to show how airports in the state have changed since the plan was last prepared in 2002. The following chart shows how facilities and services at Brantley County Airport performed against system plan objectives between 2002 and 2017. Objectives are listed on the previous page and in the Report Card. It is worth noting that in some instances data collection efforts in 2002 versus 2017 were not identical, making it difficult to compare changes.

### FACILITY/SERVICE COMPARISON - 2002 VS 2017

Facility or Service	2002 Actual	2017 Actual
<b>Runway Length</b>	3,000 feet	4,000 Feet
<b>Runway Width</b>	50 feet	75 Feet
<b>Taxiway</b>	No	Turnaround on one Runway end
<b>Primary Runway PCI</b>	54	100
<b>Primary Runway Safety Area</b>	240 Feet x 120 Feet	300 Feet x 150 Feet
<b>Runway to Taxiway Separation</b>	Not Applicable	240 Feet
<b>Lighting System</b>		
– Runway	---	MIRL
– Taxiway	Not Applicable	None
<b>Approach Type</b>	Visual Only	LPV
<b>Navigational Aids</b>		
– Rotating Beacon	None	Rotating Beacon
– VGSI	None	PAPIs/PAPIs
– Segmented Circle	None	Segmented Circle
– Wind Cone	Not Collected in 2002	Wind Cone
<b>Fencing</b>	Not Collected in 2002	Full Perimeter
<b>Hangared Aircraft Storage</b>	3	0
<b>Apron Parking/Storage</b>	3	3
<b>General Aviation Terminal/Administration</b>	None	None
<b>General Aviation Auto Parking</b>	12	12
<b>Fuel</b>	None	None
<b>FBO</b>	No	None

## OUTLOOK FOR AVIATION DEMAND

While most development objectives for Brantley County Airport are driven by role rather than demand, it is still important to have a general sense of how activity (based aircraft and annual operations) at the Airport could change in the coming years. The following table shows projections for the Airport developed as part of the GSASP. Forecast methodologies used in the GSASP included analysis of historic growth, FAA trends, and county-specific projections of population and employment. It is worth noting that demand projections developed as part of a state aviation system plan tend to be far more conservative than demand projections developed as part of an individual airport master plan or Airport Layout Plan (ALP) report. Statewide, the average annual compound rate of growth for both based aircraft and annual general aviation operations is expected to be 0.54%.

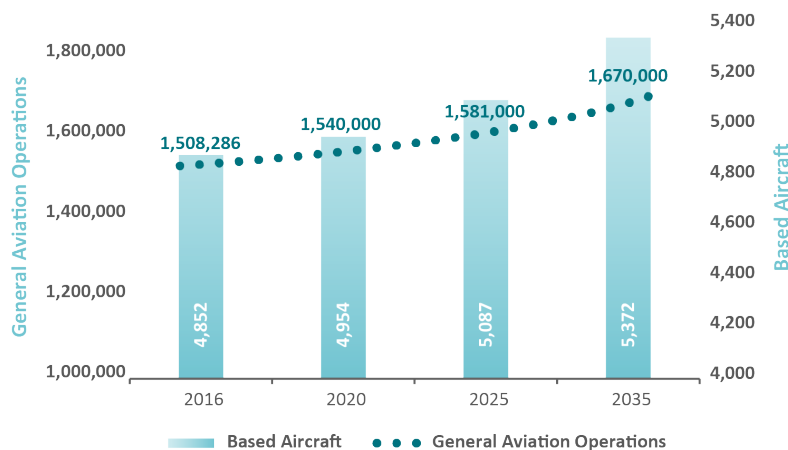
### BRANTLEY COUNTY AIRPORT PROJECTIONS OF AVIATION DEMAND

	Based Aircraft	Annual General Aviation Operations
2016 Actual	0	350
2020	0	350
2025	0	350
2035	0	350

Following the completion of Georgia’s last statewide aviation system plan, the cost of acquiring and maintaining a general aviation plane, the cost to secure a private pilot’s license, competing opportunities for allocation of disposable income, along with increases in the cost of aviation fuel, have all contributed to a contraction in general aviation demand.

Recent economic recovery and increased use of general aviation as a tool to improve business efficiency have helped to stabilize the general aviation industry. For most airports in Georgia, however, anticipated growth in general aviation demand will be modest at best. The graph below shows statewide projections of based aircraft and annual general aviation operations for the 103 study airports as they were developed in the GSASP update.

### STATEWIDE PROJECTIONS OF BASED AIRCRAFT AND ANNUAL GENERAL AVIATION OPERATIONS



## OTHER GSASP EFFORTS

As part of the GSASP, additional efforts were included to determine how well the existing system is currently performing. This additional research included the following:

- » **A land use and zoning inventory**
- » **Investigation to determine airport control of runway protection zones (RPZs)**
- » **An inventory of through-the-fence operators**

A summary of statewide findings for each of these studies is below, followed by airport-specific results for each of these three areas of analysis.

- » **Land Use and Zoning:** According to FAA grant assurance #21, airports in the federal system should take appropriate steps to promote compatible land use in the airport environs. Study research indicates that there are at least 196 local governments in Georgia that border one of the system airports. According to study findings, only 40 of these municipalities currently have airport-specific land use zoning in place.
- » **RPZ Control:** The FAA encourages all airports in the federal airport system to have control through acquisition or land use planning/zoning over their RPZs; the RPZ is the area designated off each airport runway end to help promote safety. There are 280 RPZs for all study runways. While most of these RPZs are under partial airport control, study research determined that only 84 out of the 280 RPZs are under control. An estimated \$332 million is needed to bring all RPZs at system airports under control.
- » **Through-the-Fence Operations:** The FAA discourages airports in the federal system from allowing off-airport businesses to have access to an airport's runway facilities. When an off-airport business does have access to an airport's airfield facilities, these businesses are typically referred to as through-the-fence operators. Only 17 of 103 airports in the Georgia system have any type of through-the-fence operator.

Airport-specific findings for these tasks, as applicable, follow.

## LOCAL GOVERNMENTS ADJACENT TO BRANTLEY COUNTY AIRPORT WITH LAND USE CONTROLS

Having land use and activities around airports that are compatible with aircraft operations is imperative from a safety standpoint. Airports that accept state and/or federal grants are obligated to take steps to promote compatible land use and activities in the environs of their airport. For the GSASP analysis, airports identified local governments in the environs of their airport. It is likely that the local governments identified by the Airport are the primary local governments adjacent to the Airport, but it is possible that if the Airport’s extended safety and control surfaces designated by the FAA were considered, there could be additional local governments (beyond those reported here) that are in the airport environs.

Research was undertaken for local governments identified during the GSASP to determine if the local governments are taking steps to establish compatible land use and protect the operating environments for airports throughout the state. Local governments adjacent to Georgia airports were investigated to determine the following:

- » **Has the local government adopted land use zoning controls?**
- » **Does the local government have an airport specific overlay zone or district?**
- » **Does the local government have a land use map that shows the location of the airport?**
- » **Has the local government adopted height restriction zoning around the airport?**

The following table shows local governments adjacent to Brantley County Airport and summarizes the status of land use controls for each. Local governments and airports throughout Georgia need to work together to help ensure airports are protected from incompatible land uses and from the encroachment of obstacles that pose a height hazard to safe airport operations.

### LAND USE CONTROL SUMMARY FOR BRANTLEY COUNTY AIRPORT

Type of Control	Local Governments Adjacent to the Airport	
	City of Nahunta	Brantley County
Adopted Land Use Ordinance	No	No
Adopted Height Zoning Ordinance	No	No
Land Use Map	No	Yes
Airport Overlay Zone/District	No	No

Model ordinances to control land use and the height of objects in the airport environs are available on the GDOT website: [www.dot.ga.gov/IS/AirportAid/AviationSystemPlan](http://www.dot.ga.gov/IS/AirportAid/AviationSystemPlan).

## AIRPORT CONTROL OF RUNWAY PROTECTION ZONES

A review of all RPZs was undertaken as part of the GSASP update. The RPZ is an FAA-designated safety zone off the end of each active runway; the size of the RPZ for each runway end is established by FAA guidelines and varies by the type of approach (visual, non-precision, precision) to the runway end. FAA standards indicate that all airports should have control over each RPZ either through fee simple ownership of the land within the RPZ or through avigation easements. Statewide, 84 (30%) of the 280 RPZs at all study airports are reported as under airport control.

As part of the GSASP analysis, categories were established for types of use within the RPZs at Georgia airports. Once these categories were identified, additional analysis was undertaken to identify potential costs by category that could be incurred to bring all RPZs under airport control. The analysis included the following:

- » **Areas of the Airport’s RPZ that are not fully under Airport control.**
- » **Types of use(s) and/or development in the uncontrolled portions of the Airport’s RPZs.**
- » **Estimated cost to bring uncontrolled RPZ areas under Airport control.**

As indicated through the GSASP analysis, the cost to bring all portions of the Airport’s RPZs under Airport control is estimated to be **\$474,162**. Airports are highly encouraged to gain control over RPZs to prevent incompatible land uses.

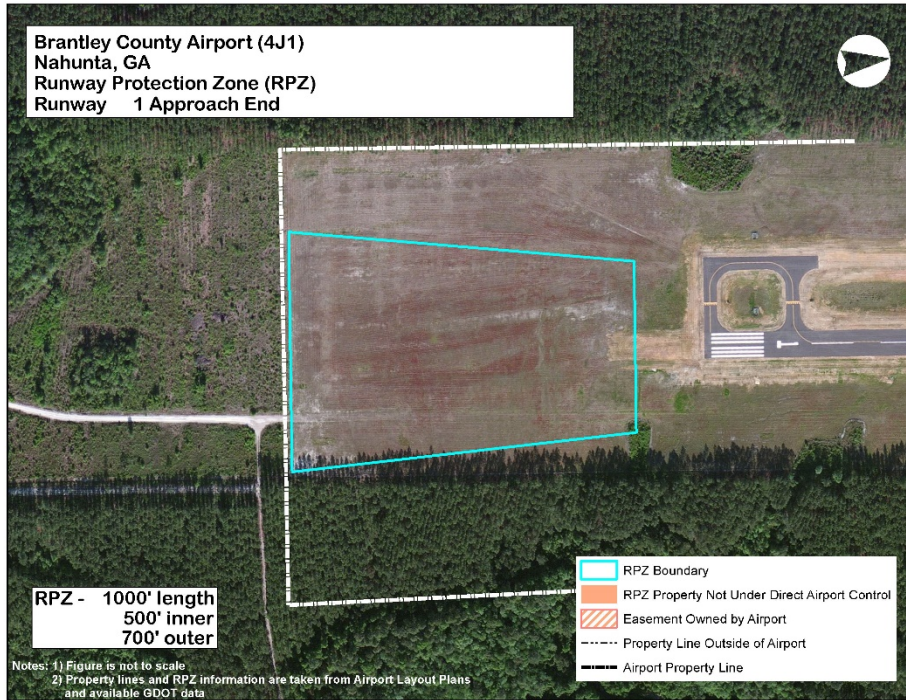
### BRANTLEY COUNTY AIRPORT RPZ CONTROL

	Runway	
	1	19
<i>Identified Land/Property Acquisitions</i>		
<b>Total Acres Outside Airport Control</b>	<b>0</b>	<b>7</b>
– Urban Acres	0	0
– Rural Acres	0	7
<i>Associated Costs</i>		
<b>Property Acquisition Costs</b>		
– Urban Land Acquisition Costs*	-	-
– Rural Land Acquisition Costs*	-	\$6,300
– Residential Property Acquisition Costs	-	-
– Commercial Property Acquisition Costs	-	-
<b>Relocation Costs</b>		
– Paved Road Relocation Costs	-	\$159,907
– Unpaved Road Relocation Costs	\$142,330	\$165,625
– Railroad Relocation Costs	-	-
<b>Subtotal</b>	<b>\$142,330</b>	<b>\$331,832</b>
<b>Total</b>	<b>\$474,162</b>	

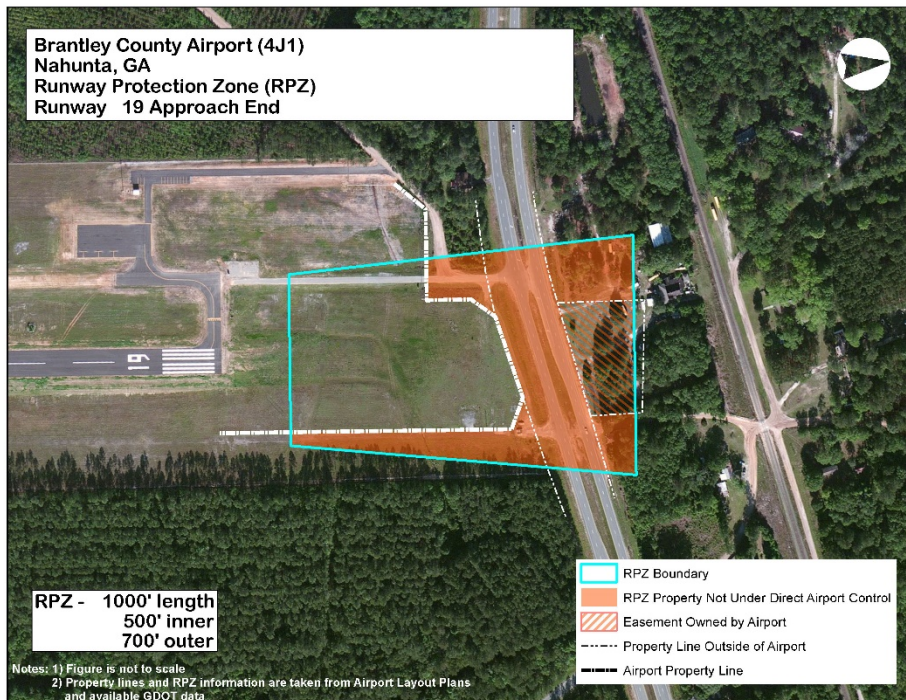
Note: \* The urban vs. rural classification for property acquisition costs generally followed the Georgia Urbanized Areas as presented in GDOT’s “Statewide Functional Classification and Urban Area Boundary Update” from February 2014. The land use definitions were further defined by observations of characteristics around each airport.



## RPZ – RUNWAY 1 APPROACH END



## BRANTLEY COUNTY AIRPORT RPZ – RUNWAY 19 APPROACH END



## AIRPORT REPORT CARD AND RECOMMENDATIONS

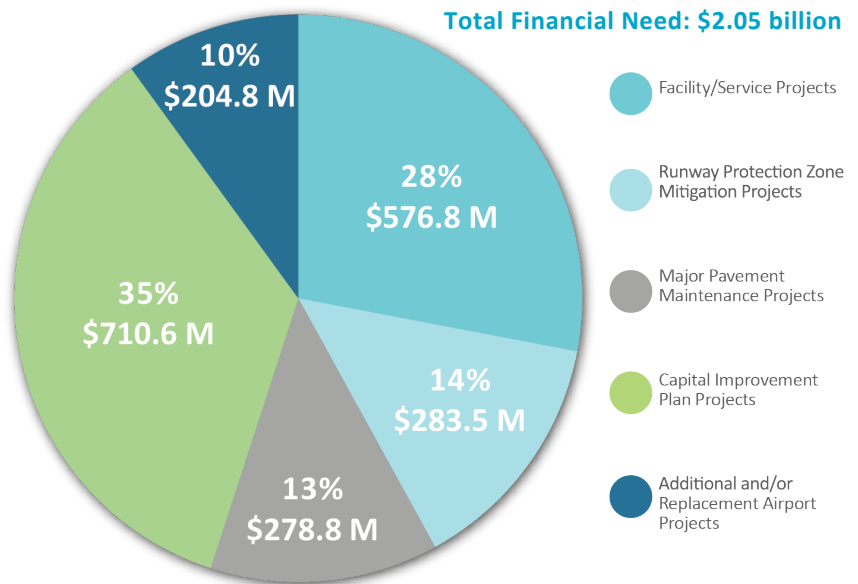
This report provides information on GSASP facility/service objectives associated with a Level I airport in the state airport system. The Report Card on the following pages shows Brantley County Airport's ability to meet its objectives. If the Airport does not meet an objective, an estimated cost to enable the Airport to meet the objective was developed. The GSASP also reviewed the Airport's current capital improvement plan (CIP), as submitted to GDOT; while the GSASP identified costs to meet system plan objectives, CIP costs to meet local airport development goals are also included in the Report Card.

Pavement projects identified for the Airport in the 2012 Statewide Airfield Pavement Management Study that have not yet been completed are also shown in the Airport's Report Card. The Airport's pavement projects were compared to the projects from the system plan and the Airport's CIP to avoid duplication. An update to GDOT's Statewide Airfield Pavement Management Study is underway and expected to be complete in early 2019.

The GSASP identified that over the next five years, an estimated \$1.34 billion will be needed to maintain and improve all commercial and general aviation airports in Georgia to their system plan recommendations; an additional \$710.6 million will be needed to meet the additional goals of local communities. Sources for the total financial need of \$2.05 billion are shown in the pie chart below.

### AREAS OF FINANCIAL NEED TO MAINTAIN AND IMPROVE THE GEORGIA AIRPORT SYSTEM

The GSASP focuses on recommendations and costs to implement needs identified in the study. The Report Cards also include airport CIPs to enable airports to understand the potential costs to meet both GSASP and local development objectives. Of the \$2.05 billion financial need, 35% is related to locally developed CIPs.



When the Airport's system plan projects are considered, it is estimated that a total of **\$2,410,000** will be needed over the next five years. When the Airport's CIP is included, the total need is estimated at **\$5,960,920**. On average over the next five years, **\$1,192,184** will be needed on an annual basis to maintain and improve the Airport. GDOT's last statewide economic impact study, completed in 2012, shows that the Airport is responsible for an estimated **\$3,121,600** in annual economic impact. When the Airport's annual need (**\$1,192,184**) is compared to its annual benefit (**\$3,121,600**), it is clear that the Airport is well worth the investment.

The Report Card for Brantley County Airport, developed as part of the system plan, is shown on the following pages.

## Brantley County Airport Report Card

<b>AIRPORT NAME:</b> Brantley County Airport	<b>CITY:</b> Nahunta, Georgia
<b>COUNTY:</b> Brantley County	<b>AIRPORT CODE:</b> 4J1

Brantley County Airport Report Card					
Actions Needed to Meet Facility and Service Objectives					
	Actual	Minimum Objective	Objective Met	Improvement Needed	Estimated Cost
<b>Runway Length</b>	4,000 Feet	4,000 Feet	Yes	-	-
<b>Runway Width</b>	75 Feet	75 Feet	Yes	-	-
<b>Taxiway</b>	Turnaround on one Runway end	Turnarounds at Each End	No	Add Partial Parallel Taxiway*	\$1,045,000
<b>Primary Runway PCI</b>	100	70 or Greater	Yes	-	-
<b>Primary Runway Safety Area</b>	300 Feet x 150 Feet	300 Feet x 150 Feet	Yes	-	-
<b>Runway to Taxiway Separation</b>	240 Feet	240 Feet	Yes	Construct Taxiway System to Meet Standards**	-
<b>Lighting System</b>					
– Runway	MIRL	MIRL	Yes	-	-
– Taxiway	None	MITL	No	Install MITL	\$400,000
<b>Approach Type</b>	LPV	Non-Precision	Yes	-	-
<b>Navigational Aids</b>					
– Rotating Beacon	Rotating Beacon	Rotating Beacon	Yes	-	-
– VGSIs	PAPIs/PAPIs	PAPIs	Yes	-	-
– Segmented Circle	Segmented Circle	Segmented Circle	Yes	-	-
– Wind Cone	Wind Cone	Wind Cone	Yes	-	-
<b>Fencing</b>	Full Perimeter	Operations Area	Yes	-	-
<b>Hangared Aircraft Storage</b>	0	60% of Based Aircraft Fleet	Yes	-	-
<b>Apron Parking/Storage</b>	3	40% of Based Aircraft Fleet Plus an Add'l 25% for Transient Aircraft	Yes	-	-
<b>General Aviation Terminal/Administration</b>	None	750 Square Feet of Public Use Space with Restrooms	No	Add 750 Sq Ft of Terminal with Restrooms*	\$565,000
<b>General Aviation Auto Parking</b>	12	1 Space for Each Based Aircraft Plus an Add'l 25% for Visitors/Employees	Yes	-	-
<b>Fuel</b>	None	AvGas, and/or Jet Fuel as Required	No	Add AvGas and Jet A*	\$400,000
<b>FBO</b>	None	Limited Service	No	Obtain Limited Service FBO	No fixed cost needed
<b>Estimated SASP Facility/Service Project Cost</b>					<b>\$2,410,000</b>

\* Project and estimated project cost is derived from Airport's recent 5-year CIP; may exceed objective.

\*\* Estimated project cost is included in a related project's estimated cost.



**Brantley County Airport Report Card**

**Runway Protection Zone Mitigation Projects**

Runway End	Estimated Land Cost	Estimated Residential/Commercial Property Cost	Estimated Road Cost	Estimated Railroad Cost	Total Estimated Cost
- RW 01	No Action	No Action	\$142,330	No Action	\$142,330
- RW 19	\$6,300	No Action	\$325,532	No Action	\$331,832
			<b>Estimated RPZ Mitigation Project Costs</b>		<b>\$474,162</b>

**Major Pavement Maintenance Projects Planned**

	Project Description	Estimated Cost	
<b>Runway 01/19</b>	Global Preventative (e.g. Surface Treatment to Entire Pavement)	\$70,019	
<b>Taxiways</b>	Global Preventative (e.g. Surface Treatment to Entire Pavement)	\$11,875	
<b>Apron</b>	Global Preventative (e.g. Surface Treatment to Entire Pavement)	\$5,864	
	<b>Estimated Major Pavement Project Costs</b>		<b>\$87,758</b>

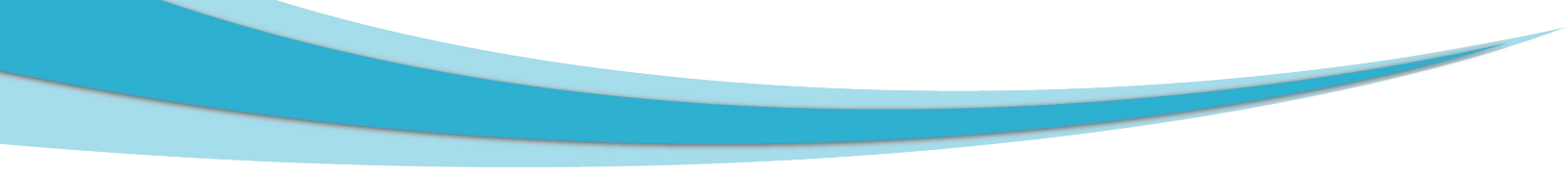
**Capital Improvement Plan (CIP) Projects Planned 2018-2022**

Program Year	Project Type	Project Description	Estimated Cost	
2018	Plans & Studies	DBE Plan Update for FY2018-2020	\$10,000	
2018	Lighting, NAVAIDs & Signage	Site Preparation and AWOS III PT Installation	\$225,000	
2018	Plans & Studies	Terminal Area Plan Update (Reimbursement - 2011)	\$8,000	
2019	Apron	Design Apron Expansion (15,000 SF) for Construction of Maintenance Hangar/FBO (60'X60')	\$91,000	
2019	Safety	Obstruction Survey, Analysis and Design for Runway 19 Approach	\$20,000	
2020	Plans & Studies	Airport Layout Plan Update, Including AGIS	\$115,000	
2020	Land Acquisition & Easements	Avigation Easement Acquisition (5 Parcels) for Runway 19 RPZ Obstruction Clearing (Phase I)	\$75,000	
2020	Apron	Construct Apron Expansion (15,000 SF) and Maintenance Hangar/FBO (60'X60')	\$900,000	
2020	Hangars	Construct Maintenance Hangar Building/FBO (60'X60')	\$132,000	
2020	Hangars	Design Box Hangar (100'X120'), T-Hangar Taxiway and Access Road Extension (300'X20')	\$110,000	
2021	Land Acquisition & Easements	Avigation Easement Acquisition (5 Parcels) for Runway 19 RPZ Obstruction Clearing (Phase I)	\$75,000	
2021	Land Acquisition & Easements	Avigation Easement Acquisition Services (9 Parcels) for Runway 19 RPZ Obstruction Clearing (Phase II)	\$110,000	
2021	Hangars	Construct Box Hangar (100'X120')	\$200,000	
2021	Taxiways	Construct T-Hangar Taxiway and Access Road Extension (300'X20')	\$520,000	
2021	Plans & Studies	DBE Plan Update 3-Year (FY2021-2023)	\$11,000	
2021	Land Acquisition & Easements	Land Acquisition (X Parcels: XX AC.) for Runway 01 Extension (1,000'X75')	\$50,000	
2021	Safety	Runway 19 RPZ Obstruction Clearing - Phase I	\$32,000	
2022	Land Acquisition & Easements	Avigation Easement Acquisition (9 Parcels) for Runway 9 RPZ Obstruction Clearing (Phase II)	\$60,000	
2022	Runways	Design 1,000' Runway and Parallel Taxiway Extension, Including Perimeter Fencing (1,500 LF), 8' High Chain Link	\$210,000	
2022	Safety	Runway 19 RPZ Obstruction Clearing - Phase II	\$35,000	
		<b>Estimated CIP Project Costs</b>		<b>\$2,989,000</b>

**Total Estimated Project Costs \$5,960,920**

## GLOSSARY OF ACRONYMS

ALP: Airport Layout Plan	LIRL: Low-Intensity Runway Lighting
ALS: Approach Lighting System	LITL: Low-Intensity Taxiway Lighting
ALSF: ALS with Sequenced Flashers	LPV: Lateral Precision Performance with Vertical Guidance
ASOS: Automatic Surface Observation System	MALS: Medium-Intensity Approach Lighting System
ATCT: Air Traffic Control Tower	MALSF: MALS with Sequenced Flashers
AvGas: Aviation Gasoline	MALSRL: MALS with Runway Alignment Indicator Lights
AWOS: Automated Weather Observation System	MIRL: Medium-Intensity Runway Lighting
CAGR: Compound Annual Growth Rate	MITL: Medium-Intensity Taxiway Lighting
CATEX: Categorical Exclusion	MoGas: Motor Gasoline
CIP: Capital Improvement Plan	NAVAIDs: Navigational Aids
DBE: Disadvantaged Business Enterprise	PAPI: Precision Approach Path Indicator
DME: Distance Measuring Equipment	PCI: Pavement Condition Index
FBO: Fixed Base Operator	PFC: Passenger Facility Charge
FIDS: Flight Information Display System	REIL: Runway End Indication Lights
GA: General Aviation	RNAV: Area Navigation
GIS: Geographic Information System	RPZ: Runway Protection Zone
GSASP: Georgia Statewide Aviation System Plan	RSA: Runway Safety Area
HIRL: High-Intensity Runway Lighting	sqmi: Square Miles
HITL: High-Intensity Taxiway Lighting	VASI: Visual Approach Slope Indicator
ILS: Instrument Landing System	VGSI: Visual Glideslope Indicator
Jet A: Jet Fuel	VOR: Very High Frequency (VHF) Omni-Directional Range
LF: Linear Feet	WHMP: Wildlife Hazard Management Plan



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