ELEVATE

2022 ANNUAL REPORT

FDOT AVIATION

Florida Department of Transportation

CHARTING THE COURSE FOR SUCCESS

The aviation industry is constantly evolving. Shifting aviation technologies, regulations, global economic conditions, and demands for air service bring both challenges and opportunities to Florida's airports. Together, the Florida Department of Transportation (FDOT), the Continuing Florida Aviation System Planning Process (CFASPP), and our airports are committed to ensure that our aviation system remains safe, highly advanced, and responsive to the state's transportation needs—both today and well into the future.

In support of this commitment, FDOT completed the Florida Aviation System Plan 2035 Update (FASP 2035) in 2017. An aviation-specific extension of the Florida Transportation Plan (FTP), the FASP 2035 is the long-term strategic plan guiding Florida's aviation future over the 20-year planning horizon. This report updates the key measures used to evaluate the system's performance in order to understand how the system has progressed since the FASP 2035 was completed.

Please note, the metrics reported as part of this update reflect changes that occurred in 2020 and 2021. As such, it is likely that many data points may have been affected by the impacts of COVID-19. FDOT will continue to monitor the state's aviation system and provide data updates as necessary.

The FASP Update can be accessed online at www.fdot.gov/aviation/FASP2035.shtm. The FTP is available at www.floridatransportationplan.com.

Aviation System Goals

The future of Florida's aviation system is rooted in the decisions we make today. Founded upon this forward-thinking approach, FDOT, CFASPP, and other aviation partners defined seven goals of the Florida aviation system (shown to the right). These key principles serve as the FDOT's compass as it works to ensure Florida's continued aviation leadership.

Performance Monitoring

These goals have been translated to actionable and informational metrics known as performance measures and indicators (respectively). First assessed during the FASP 2035 Update, these metrics will be regularly evaluated to identify changes over time and support ongoing system improvement.

A summary of the FASP performance measures and indicators are provided on the following pages. Additional details of this data are available in the FASP 2035 Technical Report at www.fdot.gov/aviation/FASP2035.shtm.

1. Provide safe, efficient, secure, and convenient service to Florida's citizens, businesses, and visitors.
2. Contribute to operational efficiency, economic growth, and competitiveness while remaining sensitive to Florida's natural environment.
3. Support and enhance the national position of leadership and prominence held by Florida's aviation industry.
4. Protect airspace and promote compatible land uses around airports.
5. Foster technological innovation and support the implementation of new technologies.
6. Promote support for aviation from business, government, and the public.
7. Foster Florida's reputation as a military- and aerospace-friendly state.

FLORIDA AVIATION & SOCIOECONOMICS

AIRPORTS

Ten National Asset General Aviation Airports

111 General Aviation Airports

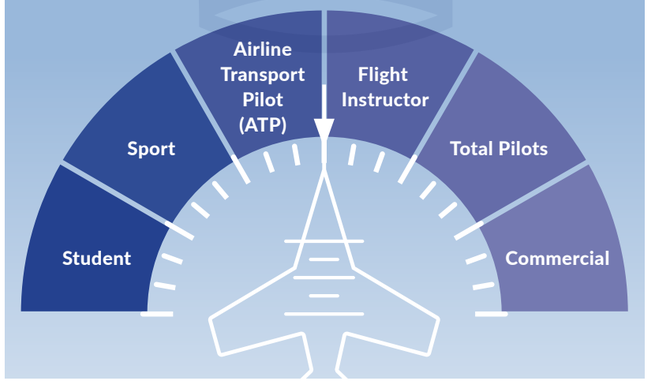
19 COMMERCIAL SERVICE AIRPORTS *including* **4** LARGE HUB FACILITIES

More than any other state!

TOP PROVIDER OF FLIGHT INSTRUCTION IN THE U.S.

Leads the nation in six categories of

PILOT CERTIFICATES:



RESIDENTS

Third most-populous state IN THE NATION WITH APPROXIMATELY **22 million residents**

PASSENGERS

55% *decrease in enplanements*

95,765,183 *in 2019* — 43,101,289 *in 2020*

NATIONALLY RANKED **#1** for total commercial airline enplanements

— 43,101,289 enplanements —

26 Part 139 Airports *including* **19** Commercial Service Airports AND **7** General Aviation Airports

AIR CARGO

Largest gateway into the U.S. for Latin American air cargo

2.1% ANNUAL GROWTH → **4.1 TONS** *by 2035*

About **90%** *of all flowers* — *About* **2/3** *of all perishables*

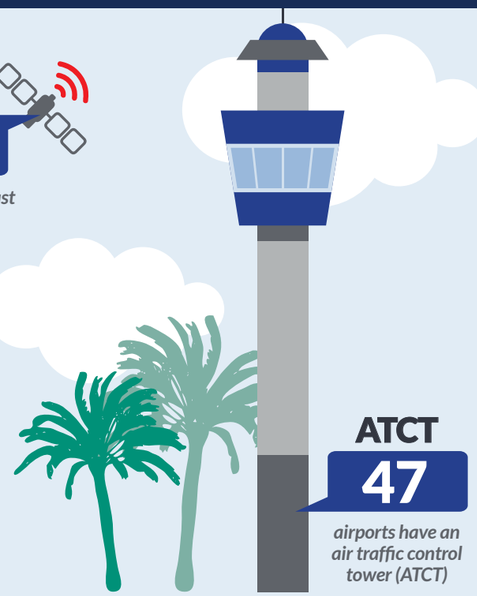
IMPORTED INTO THE U.S. THROUGH FLORIDA

This graphic depicts the percent of Florida's system airports that currently achieve the performance measures and indicators of the FASP 2035 (2022).

GPS
72%
of airports have at least a GPS approach

eALP
41%
of airports have mapping compatible with the FAA's electronic Airport Layout Plan (eALP) standards

Weather Reporting
67%
of airports have either an automated weather observing station (AWOS) or automated surface observing station (ASOS)

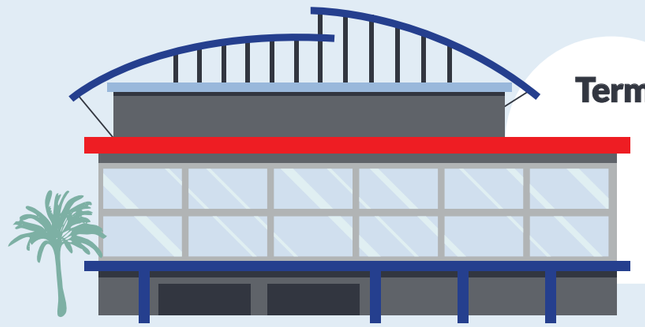


ATCT
47
airports have an air traffic control tower (ATCT)

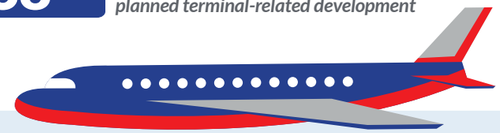
Statewide Aviation Annual Economic Impact
2010 → 2014 → 2019

$115B → $144B → $175B

Wildlife Hazard Plans
54%
of airports have some form of wildlife hazard plan completed



Terminal Development
38% *of publicly-owned airports have an ongoing or planned terminal-related development*



Airfield Design Deficiencies

77% *of airports have one or more airfield design deficiencies*

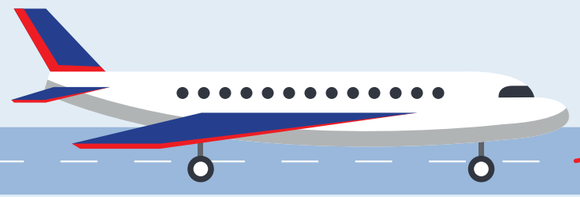
43 *FAA Designated Hot Spots among* **24** *Airports*

Direct Access Conflicts **75%**

Three-node Conflicts **12%**

Wide Expansion of Pavement **30%**

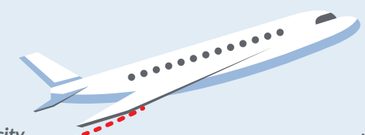
Based Aircraft
12,336
registered in the state of Florida



Security Plan
100%
of Part 139 airports have a security plan

Demand Capacity
11% *of airports have a demand capacity ratio of 60%+*

7% *of airports have a demand capacity ratio of 80%+*

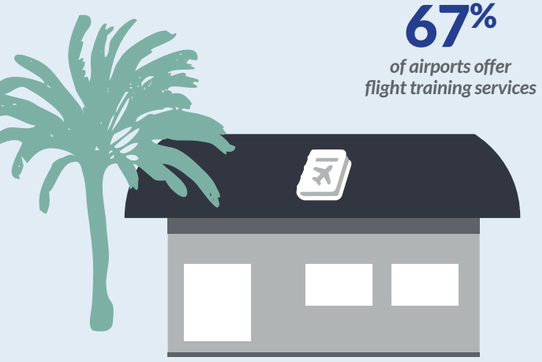


13%
Primary runways

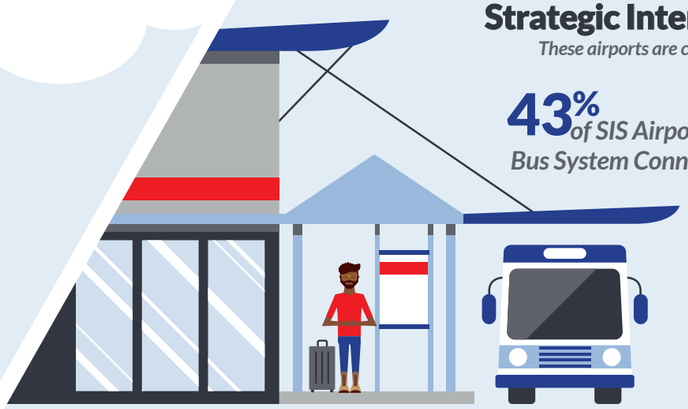
Runway Safety Area Deficiencies
percent of Florida airports that do not meet relevant federal and state Runway Safety Area (RSA) standards

Non-primary runways
8%

Pilot Training
67%
of airports offer flight training services



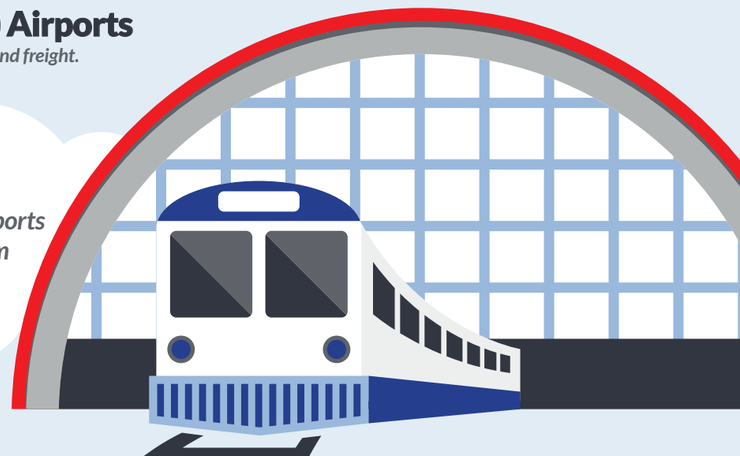
Total Pilots
76,243
with 118,909 total certificates



Strategic Intermodal System (SIS) Airports
These airports are critical for the mobility of passengers and freight.

43% *of SIS Airports have Bus System Connectivity*

19% *of SIS Airports have Rail System Connectivity*



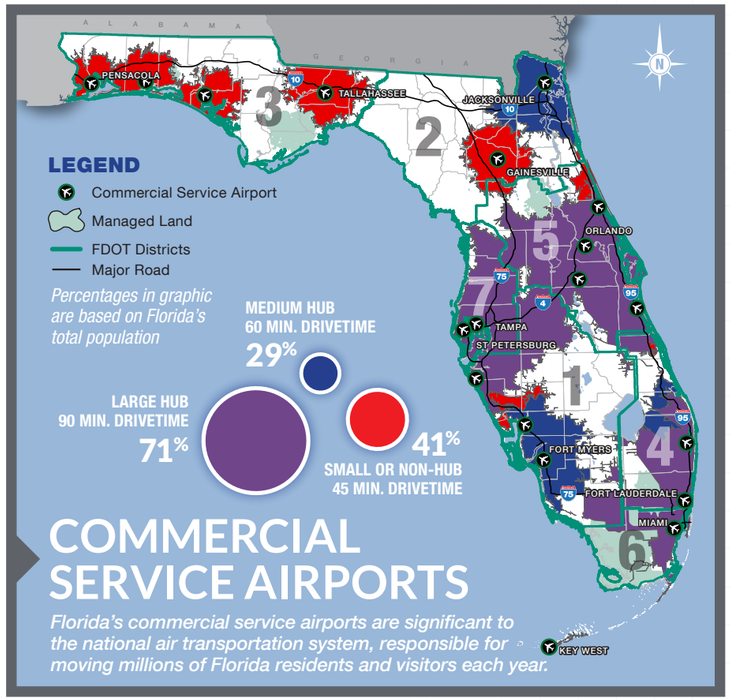
AVIATION ACCESS

Airports vary widely in terms of the facilities and services available to aircraft, pilots, and their passengers. Airports such as Orlando International, Tampa International, and Miami International have the capability to support demanding passenger and cargo aircraft traveling to global destinations. These commercial service airports require long runways, air traffic control towers (ATCTs), Jet A fuel, and other features to support safe and efficient operations.

On the other end of the spectrum, some general aviation airports offer shorter runways and fewer support facilities. These airports are designed for small jet- and piston-powered aircraft typically operated by recreational aviators. Furthermore, certain activities such as business flying and flight training demand their own unique sets of airport attributes.

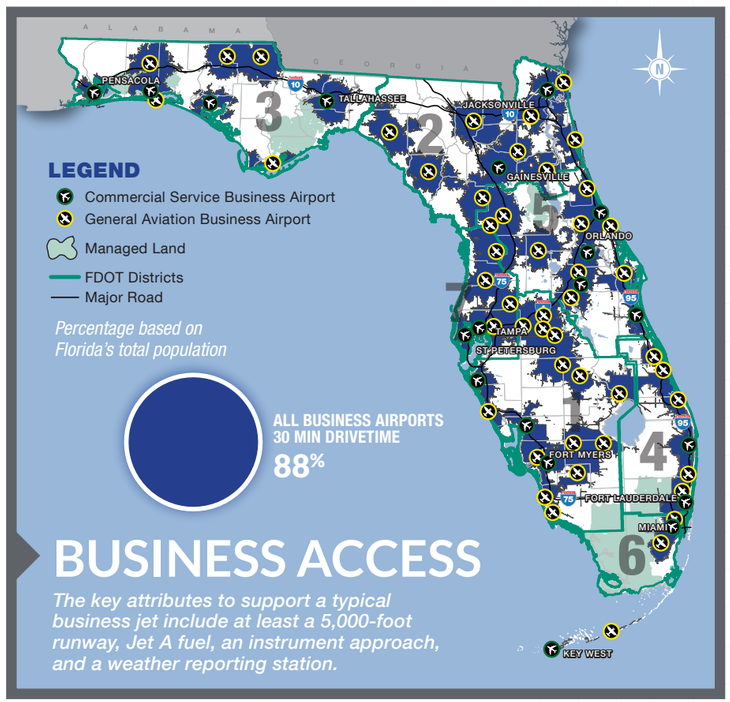
A truly robust aviation system provides residents with reasonable access to the entire spectrum of aviation facilities, services, and activities. As such, FDOT conducted a series of analyses to determine the percent of Florida's population within a 30-minute drive-time of various types of airports. These analyses help identify areas of comprehensive airport coverage and pinpoint the regions that could most significantly benefit from additional investments in Florida's aviation assets.

With 95% of the population having access to a public-use airport within a 30-minute drive, Florida's residents have exceptional access to the benefits of air transportation.



COMMERCIAL SERVICE AIRPORTS

Florida's commercial service airports are significant to the national air transportation system, responsible for moving millions of Florida residents and visitors each year.



BUSINESS ACCESS

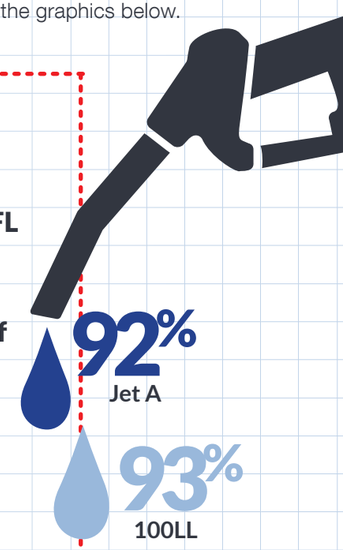
The key attributes to support a typical business jet include at least a 5,000-foot runway, Jet A fuel, an instrument approach, and a weather reporting station.

SIS AIRPORTS

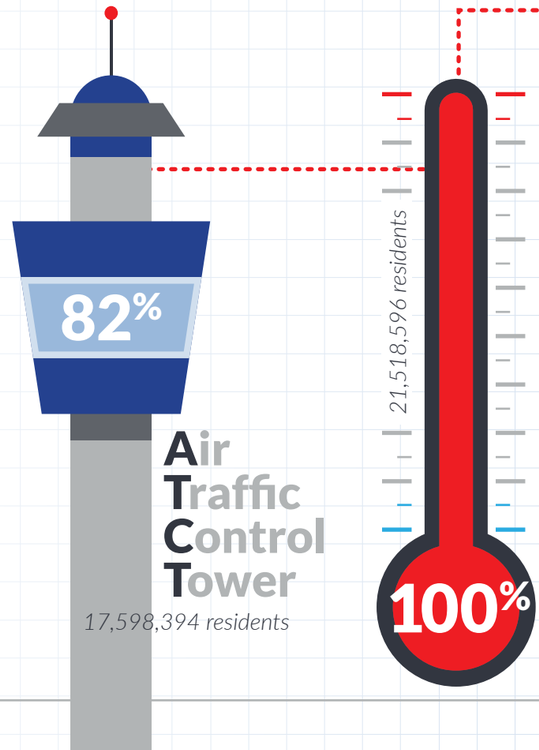
Designated as part of Florida's Strategic Intermodal System (SIS), these airports are critical for the mobility of passengers and freight and play a pivotal role in the state's economic prosperity and competitiveness.

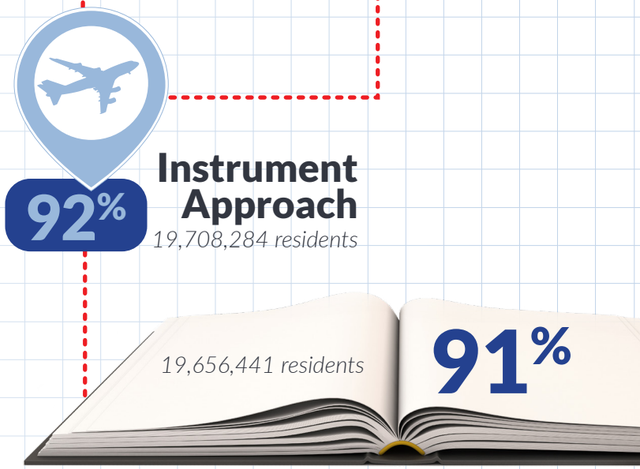
Additional drivetime reports were conducted for other attributes of Florida's aviation system to determine population coverage and access within a 30-minute drivetime of Florida's airports. This data is summarized in the graphics below.

Percent of FL population within 30-minutes drivetime of an airport with:



Note: All airports that have Jet A have 100LL.





AIRPORT PAVEMENT REPORT

Airfield pavement is a critical element of safe aircraft operations and is often one of the most significant expenses an airport faces each year. On a continuous 3-year cycle, the FDOT Aviation Office evaluates the pavement condition index (PCI) of airfields across the state. As an indicator of the general surface condition of pavement, the PCI assessment helps the FDOT Aviation Office and airports know when and where maintenance is required to prioritize project funds and keep airports safe. The following graphic reflects the average PCI values recorded among the airports located in each of the seven FDOT districts. The values presented below are from the 2019 PCI report. It is anticipated that new PCI data will be available in late-2022.

LEGEND

- *Number of Airports*
- *Runway*
- *Overall Airfield* [1]

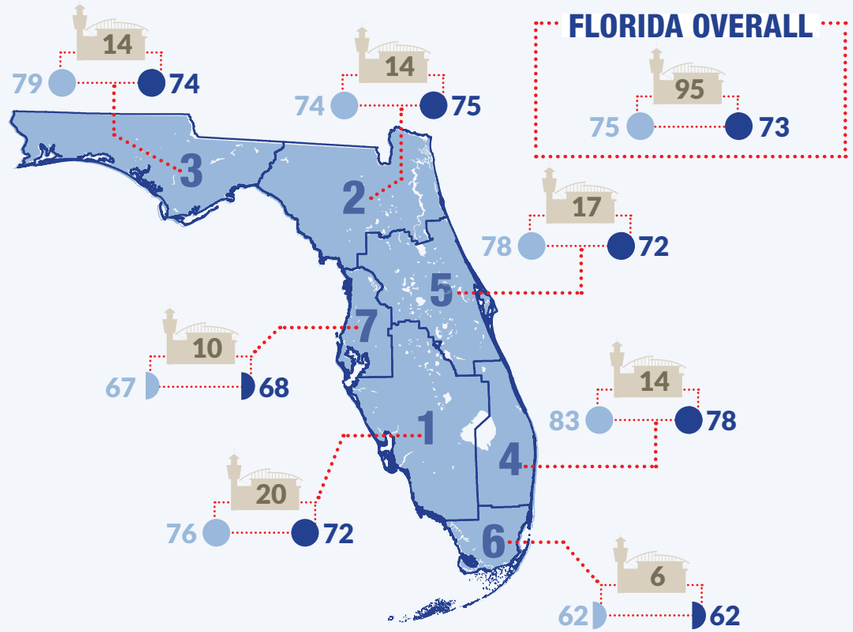
PCI Rating:

- *Satisfactory (85-71)*
- *Fair (70-56)*

PCI Range:

65–85	*Fair to satisfactory*
40–64	*Very poor to fair*
0–39	*Failed to very poor*

[1] *Individual analyses were conducted for runways, taxiways, and aprons, as not all surfaces require the same PCI for safe aircraft operations. Results are summarized here for brevity.*



Work Program

The FDOT's Work Program has programmed and planned funding of $6.6 billion for Florida's airports for projects beginning in 2016 and running through to 2026. The chart below shows the breakdown for funding.

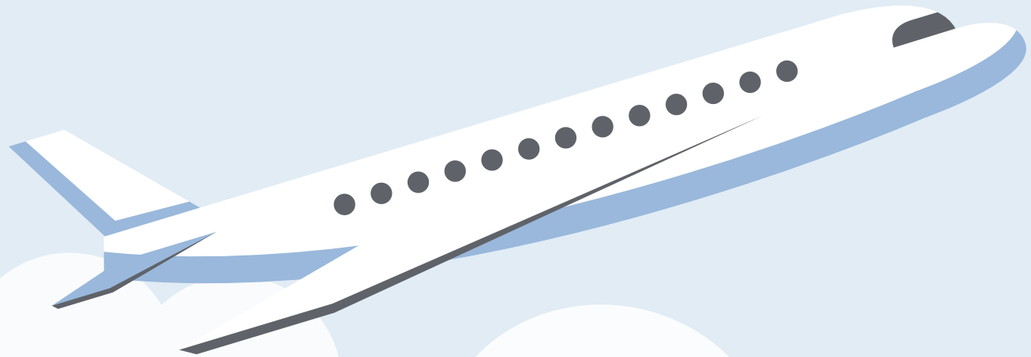
PROJECT TYPE	2016-2026	PERCENT
Pavement	$1,481,698,325	22%
Buildings	$1,571,776,221	24%
Planning	$433,018,562	7%
Roadway	$270,872,352	4%
Other[1]	$161,689,303	2%
Misc.[2]	$2,675,503,019	41%
TOTALS	**$6,594,557,782***	**100%**

[1] *Other: ARFF Facilities, Security, Weather (AWOS/ASOS), and Land Acquisition.*
[2] *Misc: Various Airport Improvement Projects.*
* *Totals include FDOT, FAA and local funds.*

For more information on these performance measures and indicators or other FASP-related information, please contact Mike McClure, Aviation System Manager, at (850) 414-4506 or Mike.McClure@dot.state.fl.us

FASP Florida Aviation System Plan 2035

DATA DICTIONARY



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Data Element	Page of Report	2022 Value	2021 Value	Change from 2021 to 2022	Updated Data Collection Effort	2022 Data Source	2021 Data Source	Data Source / Date Change
National Asset General Aviation Airports	3	10	10	No	Yes - new year of data	NPIAS 2021-2025	NPIAS 2021-2025	No
General Aviation Airports	3	111	110	1	Yes - new year of data	Florida Aviation Database (FAD)	Florida Aviation Database (FAD)	Yes
Commercial Service Airports	3	19	20	-1	Yes - new year of data	FAA CY 2020 Enplanement Data	FAA CY 2019 Enplanement Data	Yes
Large Hub Commercial Service Airports	3	4	4	No	Yes - new year of data	FAA CY 2020 Enplanement Data	NPIAS 2021-2025	Yes
Part 139 Airports	3	26	26	No	Yes - new year of data	FAA Airport Data and Information Portal (ADIP)	FAA Airport Certification Status List (ACSL) - February 2021	Yes
Pilot Categories	3	Top in 6 categories (student, sport, ATP, flight instructor, commercial, total)	Top in 6 categories (student, sport, ATP, flight instructor, commercial, total)	No	Yes - new year of data	FAA Airmen Certification System	FAA Airmen Certification System	Yes
Enplanements	3	43,101,289	95,765,183	-52,663,894	Yes - new year of data	FAA CY 2020 and CY 2019 Enplanement Data	FAA CY 2019 and CY 2018 Enplanement Data	Yes
Percent Change in Enplanements	3	-55%	5%	-60%	Yes - new year of data	FAA CY 2020 and CY 2019 Enplanement Data	FAA CY 2019 and CY 2018 Enplanement Data	Yes
Florida Population	3	Approximately 22 million (3rd)	Over 21 million (3rd)	Yes	Yes - new year of data	ESRI Business Analyst	ESRI Business Analyst	Yes
National Rank for Airline Passengers	3	#1	#2	Yes	Yes - new year of data	FAA CY 2020 Enplanement Data	FAA CY 2019 Enplanement Data	Yes
Air Cargo Growth	3	2.1% annual growth	2.1% annual growth	N/A	No	FDOT Air Cargo Study	FDOT Air Cargo Study	No
Weather Reporting	4	67%	66%	1%	Yes - new year of data	FAA ASOS Site	FAA ASOS Site	Yes
eALP	4	41%	41%	N/A	No	2017 FASP Survey	2017 FASP Survey	No
GPS	4	72%	69%	3%	Yes - new year of data	FAA Airport Data and Information Portal (ADIP)	FAA MasterRNAV	Yes
ATCT	4	36% (47)	36% (47)	No	Yes - new year of data	FAA Airport Data and Information Portal (ADIP)	FAA National Flight Data Center (NFDC)	Yes
Direct Access Conflicts	4	75%	78%	-3%	Yes - new year of data	Aerial Inspection	Aerial Inspection	Yes
Wide Expansion of Pavement	4	30%	31%	-1%	Yes - new year of data	Aerial Inspection	Aerial Inspection	Yes
Three-Node Conflict	4	12%	12%	No	Yes - new year of data	Aerial Inspection	Aerial Inspection	Yes

Data Element	Page of Report	2022 Value	2021 Value	Change from 2021 to 2022	Updated Data Collection Effort	2022 Data Source	2021 Data Source	Data Source / Date Change
FAA Designated Hot Spots	4	43 among 24 airports	40 among 22 airports	3 additional hotspots and 2 additional airports	Yes - new year of data	FAA Hot Spots List	FAA Hot Spots List	Yes
Airfield Design Deficiencies	4	77%	79%	-2%	Yes - new year of data	Aerial Inspection	Aerial Inspection	Yes
Based Aircraft	4	12,336	11,459	877	Yes - new year of data	Basedaircraft.com (non-primary CS NPIAS), 5010 (non-NPIAS and primary CS airports)	Basedaircraft.com (non-primary CS NPIAS), 5010 (non-NPIAS and primary CS airports)	Yes
Pilot Training	4	67%	68%	-1%	Yes - new year of data	FAA Airport Data and Information Portal (ADIP)	FAA National Flight Data Center (NFDC)	Yes
Total Pilots	4	76,243	72,770	3,473	Yes - new year of data	FAA Airmen Certification System	FAA Airmen Certification System	Yes
Total Certificates	4	118,909	110,081	8,828	Yes - new year of data	FAA Airmen Certification System	FAA Airmen Certification System	Yes
Wildlife Hazard Plans	5	54%	54%	N/A	No	2017 FASP Survey	2017 FASP Survey	No
Statewide Aviation Annual Economic Impact	5	$175 billion	$175 billion	N/A	No	2019 Economic Impact Study	2019 Economic Impact Study	No
Terminal Development	5	38%	38%	No	Yes - new year of data	FDOT Work Program 2016-2026	FDOT Work Program 2015-2025	Yes
Security Plan	5	100%	100%	No	No	FAD	FAD	No
Demand Capacity, 60%	5	11%	11%	N/A	No	2017 FASP Survey	2017 FASP Survey	No
Demand Capacity, 80%	5	7%	7%	N/A	No	2017 FASP Survey	2017 FASP Survey	No
Primary Runway RSA Deficiency	5	13%	14%	-1%	Yes - new year of data	Inspection Reports	Inspection Reports	Yes
Non-Primary Runway RSA Deficiency	5	8%	8%	No	Yes - new year of data	Inspection Reports	Inspection Reports	Yes
Bus System Connectivity	5	43%	57%	-14%	Yes - new year of data	Route maps	Route maps	Yes
Rail System Connectivity	5	19%	19%	No	Yes - new year of data	Route maps	Route maps	Yes
Jet A Population Percentage	7	92%	91%	1%	Yes - new year of data	ADIP, ArcGIS Drivetime Analysis, ESRI Business Analyst	5010, ArcGIS Drivetime Analysis	Yes
100 LL Population Percentage	7	93%	93%	No	Yes - new year of data	ADIP, ArcGIS Drivetime Analysis, ESRI Business Analyst	5010, ArcGIS Drivetime Analysis	Yes
Instrument Approach Percentage	7	92%	88%	4%	Yes - new year of data	FAA ADIP, ArcGIS Drivetime Analysis, ESRI Business Analyst	FAA MasterRNAV, ArcGIS Drivetime Analysis	Yes

Data Element	Page of Report	2022 Value	2021 Value	Change from 2021 to 2022	Updated Data Collection Effort	2022 Data Source	2021 Data Source	Data Source / Date Change
Instrument Approach Population	7	19,708,284	18,751,604	956,680	Yes - new year of data	FAA ADIP, ArcGIS Drivetime Analysis, ESRI Business Analyst	FAA MasterRNAV, ArcGIS Drivetime Analysis	Yes
Flight Training Percentage	7	91%	91%	No	Yes - new year of data	FAA ADIP, ArcGIS Drivetime Analysis, ESRI Business Analyst	5010, ArcGIS Drivetime Analysis	Yes
Flight Training Population	7	19,656,441	19,494,627	161,814	Yes - new year of data	FAA ADIP, ArcGIS Drivetime Analysis, ESRI Business Analyst	5010, ArcGIS Drivetime Analysis	Yes
Weather Reporting Percentage	7	100%	100%	No	Yes - new year of data	FAA ASOS Site, ArcGIS Drivetime Analysis, ESRI Business Analyst	FAA ASOS Site, ArcGIS Drivetime Analysis	Yes
Weather Reporting Population	7	21,518,596	21,349,348	169,248	Yes - new year of data	FAA ASOS Site, ArcGIS Drivetime Analysis, ESRI Business Analyst	FAA ASOS Site, ArcGIS Drivetime Analysis	Yes
ATCT Percentage	7	82%	81%	1%	Yes - new year of data	FAA ADIP, ArcGIS Drivetime Analysis, ESRI Business Analyst	5010, ArcGIS Drivetime Analysis	Yes
ATCT Population	7	17,598,394	17,303,653	294,741	Yes - new year of data	FAA ADIP, ArcGIS Drivetime Analysis, ESRI Business Analyst	5010, ArcGIS Drivetime Analysis	Yes
Florida Overall Airport PCI in Pavement Report	8	95	93	2	Yes - new year of data	FDOT Pavement Report 2019	FDOT Pavement Report 2017	Yes
Florida Overall Airport Runway PCI	8	75	75	No	Yes - new year of data	FDOT Pavement Report 2019	FDOT Pavement Report 2017	Yes
Florida Overall Average Airfield PCI	8	73	71	2	Yes - new year of data	FDOT Pavement Report 2019	FDOT Pavement Report 2017	Yes
Work Program Project Funding - Total	8	$6,594,557,782	$6,879,292,861	-$284,735,079	Yes - new year of data	FDOT Work Program 2016-2026	FDOT Work Program 2015-2025	Yes

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