2019 Transit Accessibility Report: Florida

Prepared for the state of Florida by the

Accessibility Observatory at the University of Minnesota

October 19, 2020



Authors

Andrew Owen

Director, Accessibility Observatory University of Minnesota

Brendan Murphy

Lead Researcher, Accessibility Observatory University of Minnesota

Contents

1	Introduction	1
2	Accessibility Evaluation Results	2
	2.1 Statewide Accessibility	
	2.3 Accessibility by County	87
3	Data Sources and Methodology	89
	3.1 Travel Times by Transit	89
	3.2 Geography	91
	3.3 Population and Job Distribution	91
	3.4 Accessibility Calculation	91
	3.5 Comparisons With 2018 Data	92

1 Introduction

This report presents the results of an evaluation of accessibility to jobs by transit throughout the state of Florida. *Accessibility* refers to the ease of reaching valued destinations. It combines the simpler metric of mobility with the understanding that travel is driven by a desire to reach destinations. Accessibility can be measured for various transportation modes, to different types of destinations, and at different times of day. There are a variety of ways to define accessibility, but the number of destinations reachable within a given travel time is highly comprehensible and transparent—as well as the most directly comparable across locations.

This study focuses on access to jobs, the most significant non-home travel destination. Accessibility is calculated at the Census block level by computing the travel time from each block to surrounding blocks, and then adding up the total number of jobs that can be reached within different travel time thresholds. This process is repeated for every block within the state of Florida, and the results are aggregated to provide accessibility summaries for each county, and the jurisdiction of each metropolitan planning organization (MPO), within the state.

Section 2 presents these results, summarized statewide, by MPO, and by county. Section 3 provides an overview of the data sources and methodology used in this study. A separate document, *Access Across America: Transit 2019 Methodology*, describes the methodology and data sources in greater detail.

2 Accessibility Evaluation Results

2.1 Statewide Accessibility

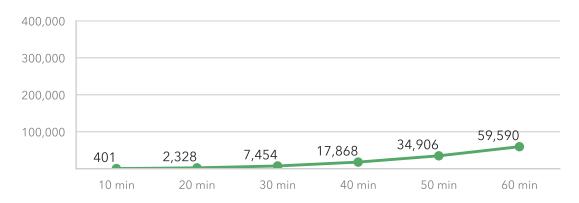
Florida

Job Accessibility Results-Transit, 2019

1-Year Change in Weighted Accessibility	-1.84%
Total Jobs	8,452,404
Average Job Density (per mi ²)	155
Total Workers	8,453,506
Average Worker Density (per mi ²)	155

Job and worker totals are based on LEHD estimates and may not match other sources.

Average Job Accessibility by Travel Time Threshold (worker-weighted)

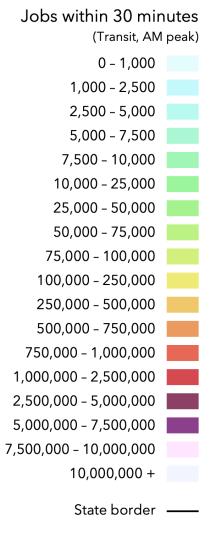




^{*}Beginning in data year 2018, federal jobs and federal workers are no longer included due to changes in underlying datasets from the U.S. Census Bureau. As a result, comparisons between 2018 and 2019 accessibility results are meaningful even in areas with large numbers of federal jobs.

Florida





 \mathcal{S}

2.2 Accessibility in Metropolitan Areas

The following sections analyze accessibility in the metropolitan areas (as defined by jurisdictions of MPOs that lie within or partially within the state of Florida. The following MPO jurisdictions are included:

- Bay County Transportation Planning Organization
- Broward MPO
- Capital Region Transportation Planning Agency
- Charlotte-Punta Gorda MPO
- Collier MPO
- Florida-Alabama Transportation Planning Organization
- Forward Pinellas
- Gainesville MTPO
- Heartland Regional TPO
- Hernando/Citrus MPO
- Hillsborough MPO
- Indian River County MPO
- Lake-Sumter MPO
- Lee County MPO
- METROPLAN Orlando
- Martin MPO
- Miami-Dade TPO
- North Florida Transportation Planning Organization
- Ocala Marion County Tranportation Planning Organization
- Okaloosa-Walton Transportation Planning Organization
- Palm Beach MPO
- Pasco County MPO

- Polk County Transportation Planning Organization
- River to Sea Transporation Planning Organization
- Sarasota-Manatee MPO
- Space Coast Transportation Planning Organization
- St. Lucie Transportation Planning Organization

Table 1 provides the average (worker-weighted–see Section 3.4) job accessibility by transit during the AM peak period for each MPO. The following pages provide additional details and maps for each MPO.

Table 1: Average Job Accessibility by Travel Time Threshold for Metropolitan Areas (Transit, AM Peak)

MPO	10 min	20 min	30 min	40 min	50 min	60 min
Bay County Transportation Planning Organization	153	790	2,197	4,395	7,382	11,050
Broward MPO	406	2,744	10,105	26,615	56,087	102,445
Capital Region Transportation Planning Agency	200	1,137	3,032	5,913	9,577	14,179
Charlotte-Punta Gorda MPO	91	462	1,147	2,178	3,376	4,749
Collier MPO	192	785	2,161	4,564	8,233	13,465
Florida-Alabama Transportation Planning Organization	187	1,015	2,990	6,571	11,877	18,987
Forward Pinellas	469	2,802	9,262	21,780	42,049	70,939
Gainesville MTPO	459	3,153	10,561	21,598	35,388	50,209
Heartland Regional TPO	100	403	790	1,212	1,635	2,036
Hernando/Citrus MPO	56	268	683	1,357	2,293	3,512
Hillsborough MPO	391	2,438	8,407	20,910	42,026	71,956
Indian River County MPO	126	589	1,373	2,471	3,873	5,621
Lake-Sumter MPO	122	444	1,075	2,055	3,388	5,097
Lee County MPO	163	879	2,479	5,167	9,120	14,678
METROPLAN Orlando	357	1,965	6,095	14,683	30,231	55,115
Martin MPO	193	699	1,723	3,188	5,135	7,526
Miami-Dade TPO	1,256	7,797	25,220	61,289	118,243	198,353
North Florida Transportation Planning Organization	298	1,298	4,010	9,954	20,390	35,317
Ocala - Marion County Tranportation Planning Organization	105	476	1,376	2,867	4,865	7,312
Okaloosa-Walton Transportation Planning Organization	216	925	2,350	4,391	6,816	9,545
Palm Beach MPO	300	1,403	3,559	6,899	11,513	17,518
Pasco County MPO	125	464	1,316	2,926	5,517	9,062
Polk County Transportation Planning Organization	164	818	2,237	4,449	7,675	11,817
River to Sea Transporation Planning Organization	147	765	2,138	4,539	8,108	12,685
Sarasota-Manatee MPO	227	1,265	3,825	8,600	15,924	25,678
Space Coast Transportation Planning Organization	147	664	1,830	3,863	7,054	11,700
St. Lucie Transportation Planning Organization	123	589	1,504	2,992	4,852	7,247

Bay County Transportation Planning Organization

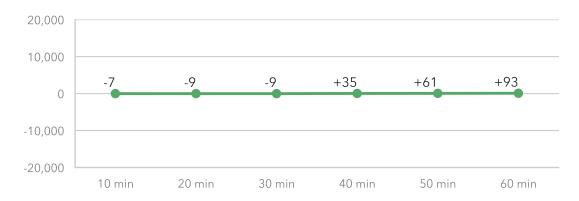
Job Accessibility Results-Transit, 2019

1-Year Change in Weighted Accessibility	-0.20%
Total Jobs	77,610
Average Job Density (per mi ²)	194
Total Workers	72,621
Average Worker Density (per mi ²)	182

Job and worker totals are based on LEHD estimates and may not match other sources.

Average Job Accessibility by Travel Time Threshold (worker-weighted)

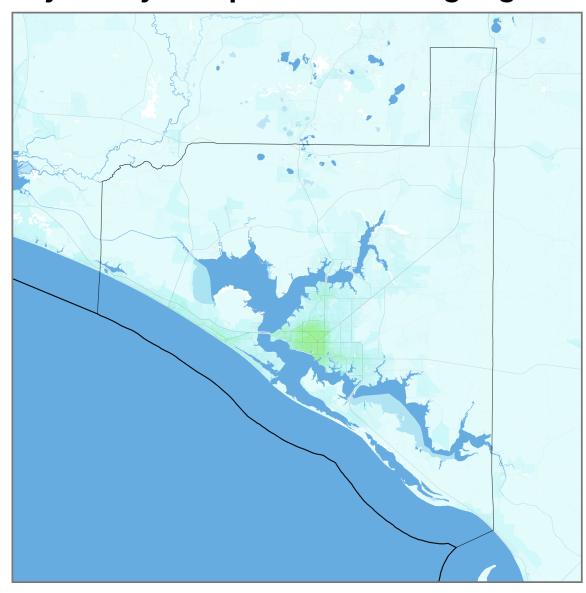




^{*}Beginning in data year 2018, federal jobs and federal workers are no longer included due to changes in underlying datasets from the U.S. Census Bureau. As a result, comparisons between 2018 and 2019 accessibility results are meaningful even in areas with large numbers of federal jobs.

Agency	Dates
Bay Town Trolley	September 1, 2016 - January 1, 2020

Bay County Transportation Planning Organization





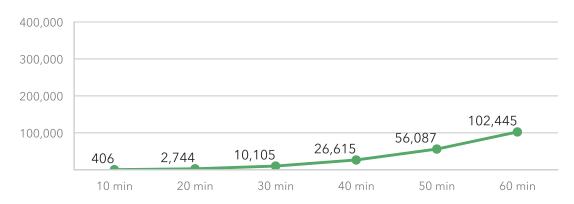
Broward MPO

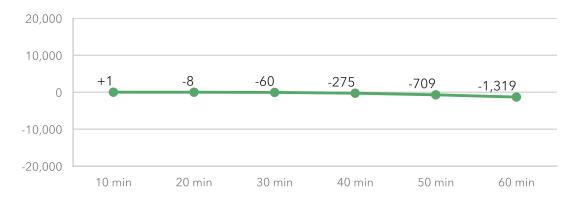
Job Accessibility Results-Transit, 2019

1-Year Change in Weighted Accessibility	-0.94%
Total Jobs	825,858
Average Job Density (per mi ²)	1746
Total Workers	839,117
Average Worker Density (per mi ²)	1774

Job and worker totals are based on LEHD estimates and may not match other sources.

Average Job Accessibility by Travel Time Threshold (worker-weighted)

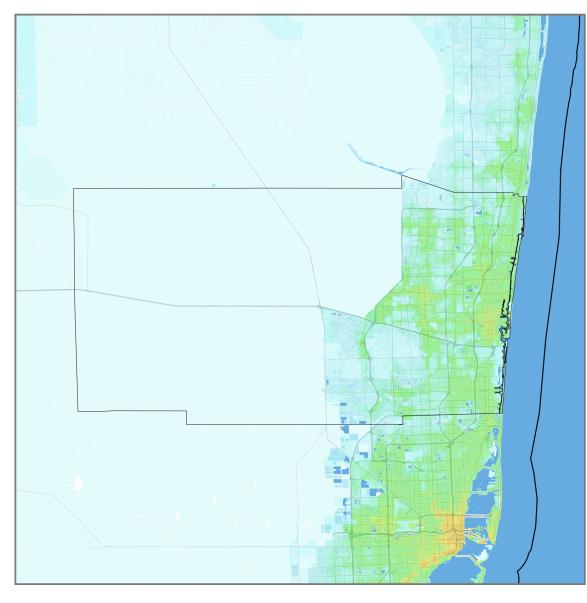




^{*}Beginning in data year 2018, federal jobs and federal workers are no longer included due to changes in underlying datasets from the U.S. Census Bureau. As a result, comparisons between 2018 and 2019 accessibility results are meaningful even in areas with large numbers of federal jobs.

Agency	Dates
Broward County Transit	January 14, 2018 - September 8, 2018
Miami-Dade Transit	March 11, 2018 - July 28, 2018
Palm Tran	January 24, 2019 - January 24, 2020
SFRTA/Tri-Rail	April 20, 2012 - December 31, 2024

Broward MPO





Capital Region Transportation Planning Agency

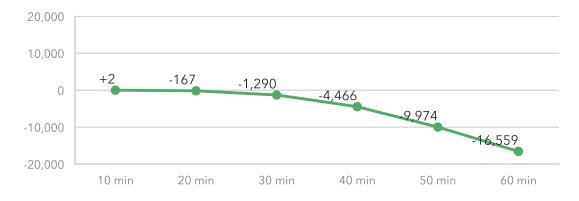
Job Accessibility Results-Transit, 2019

1-Year Change in Weighted Accessibility	-38.39%
Total Jobs	179,612
Average Job Density (per mi ²)	189
Total Workers	156,596
Average Worker Density (per mi ²)	165
	, ,

Job and worker totals are based on LEHD estimates and may not match other sources.

Average Job Accessibility by Travel Time Threshold (worker-weighted)

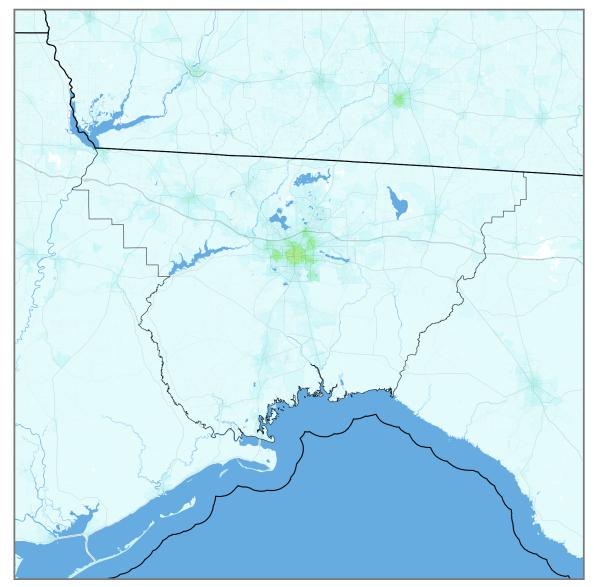




^{*}Beginning in data year 2018, federal jobs and federal workers are no longer included due to changes in underlying datasets from the U.S. Census Bureau. As a result, comparisons between 2018 and 2019 accessibility results are meaningful even in areas with large numbers of federal jobs.

Agency	Dates
StarMetro	August 11, 2018 - January 1, 2021

Capital Region Transportation Planning Agency





Charlotte-Punta Gorda MPO

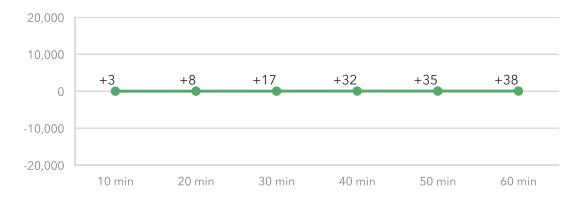
Job Accessibility Results-Transit, 2019

1-Year Change in Weighted Accessibility	+1.55%
Total Jobs	49,032
Average Job Density (per mi ²)	177
Total Workers	56,983
Average Worker Density (per mi ²)	206

Job and worker totals are based on LEHD estimates and may not match other sources.

Average Job Accessibility by Travel Time Threshold (worker-weighted)

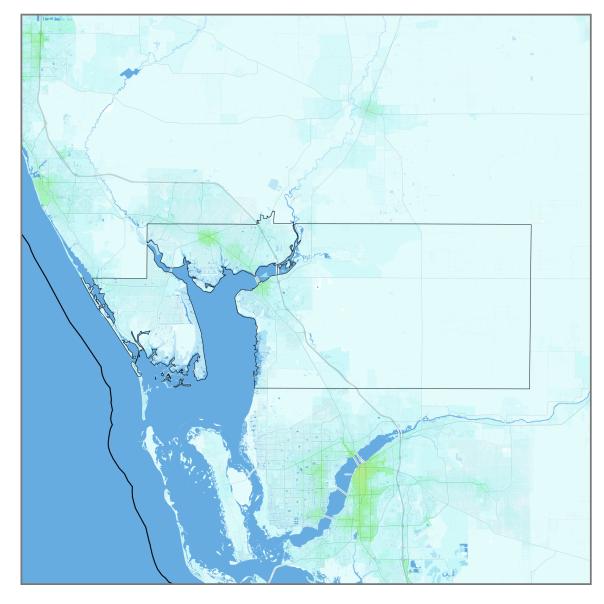


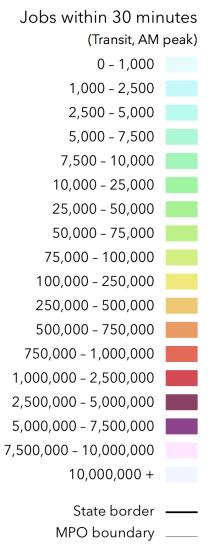


^{*}Beginning in data year 2018, federal jobs and federal workers are no longer included due to changes in underlying datasets from the U.S. Census Bureau. As a result, comparisons between 2018 and 2019 accessibility results are meaningful even in areas with large numbers of federal jobs.

No transit schedule information was available for agencies near this MPO.

Charlotte-Punta Gorda MPO





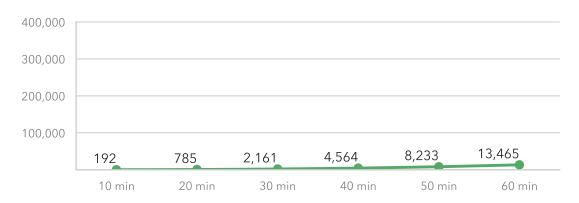
Collier MPO

Job Accessibility Results-Transit, 2019

1-Year Change in Weighted Accessibility	+8.14%
Total Jobs	140,836
Average Job Density (per mi ²)	176
Total Workers	140,245
Average Worker Density (per mi ²)	175

Job and worker totals are based on LEHD estimates and may not match other sources.

Average Job Accessibility by Travel Time Threshold (worker-weighted)

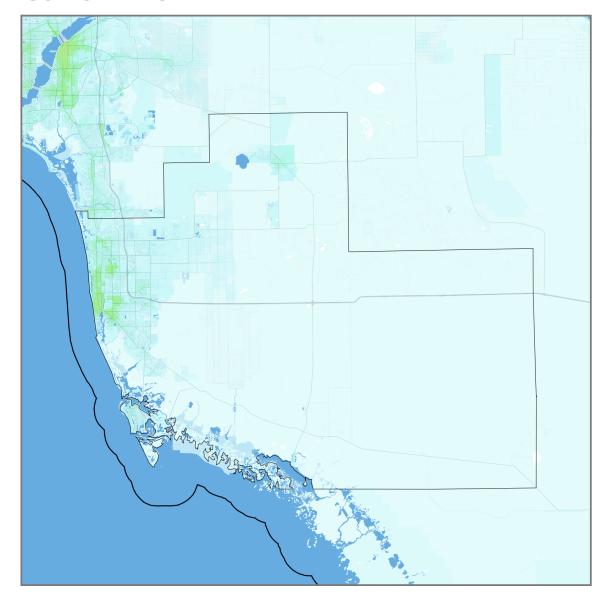


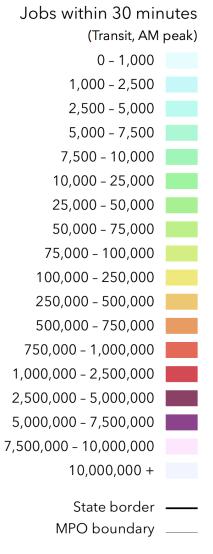


^{*}Beginning in data year 2018, federal jobs and federal workers are no longer included due to changes in underlying datasets from the U.S. Census Bureau. As a result, comparisons between 2018 and 2019 accessibility results are meaningful even in areas with large numbers of federal jobs.

Agency	Dates
Collier Area Transit - CAT	August 7, 2019 - December 31, 2019
LeeTran	April 12, 2018 - November 7, 2018

Collier MPO





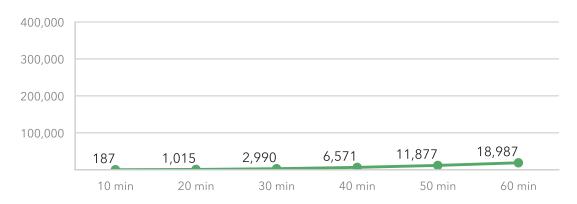
Florida-Alabama Transportation Planning Organization

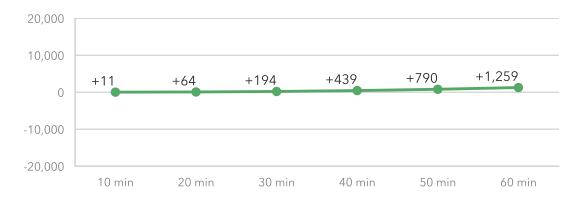
Job Accessibility Results-Transit, 2019

1-Year Change in Weighted Accessibility	+6.97%
Total Jobs	195,961
Average Job Density (per mi ²)	424
Total Workers	182,698
Average Worker Density (per mi ²)	395
	, ,

Job and worker totals are based on LEHD estimates and may not match other sources.

Average Job Accessibility by Travel Time Threshold (worker-weighted)

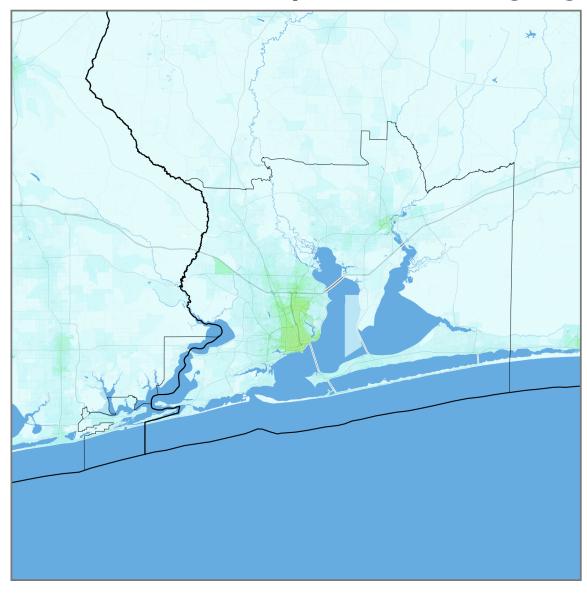


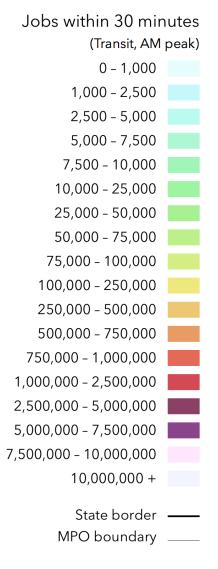


^{*}Beginning in data year 2018, federal jobs and federal workers are no longer included due to changes in underlying datasets from the U.S. Census Bureau. As a result, comparisons between 2018 and 2019 accessibility results are meaningful even in areas with large numbers of federal jobs.

Agency	Dates
Escambia County Area Transit	August 1, 2015 - January 1, 2021

Florida-Alabama Transportation Planning Organization





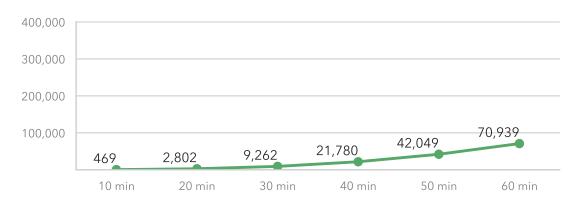
Forward Pinellas

Job Accessibility Results-Transit, 2019

1-Year Change in Weighted Accessibility	-3.02%
Total Jobs	438,474
Average Job Density (per mi ²)	3906
Total Workers	412,029
Average Worker Density (per mi ²)	3671

Job and worker totals are based on LEHD estimates and may not match other sources.

Average Job Accessibility by Travel Time Threshold (worker-weighted)

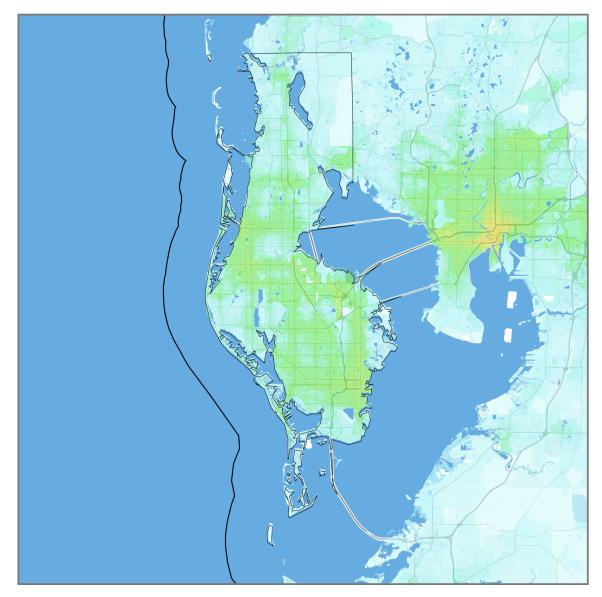




^{*}Beginning in data year 2018, federal jobs and federal workers are no longer included due to changes in underlying datasets from the U.S. Census Bureau. As a result, comparisons between 2018 and 2019 accessibility results are meaningful even in areas with large numbers of federal jobs.

Agency	Dates
Manatee County Area Transit	April 15, 2017 - January 1, 2020
Pasco County Public Transportation	December 18, 2017 - January 1, 2021
Pinellas Suncoast Transit Authority	October 7, 2018 - June 1, 2019

Forward Pinellas





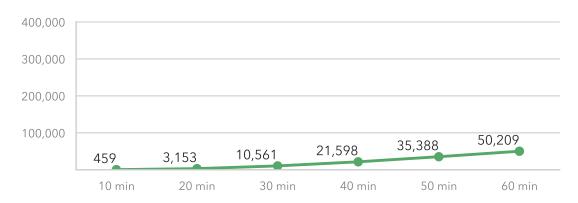
Gainesville MTPO

Job Accessibility Results-Transit, 2019

1-Year Change in Weighted Accessibility	-1.17%
Total Jobs	109,649
Average Job Density (per mi ²)	1508
Total Workers	79,521
Average Worker Density (per mi ²)	1094

Job and worker totals are based on LEHD estimates and may not match other sources.

Average Job Accessibility by Travel Time Threshold (worker-weighted)

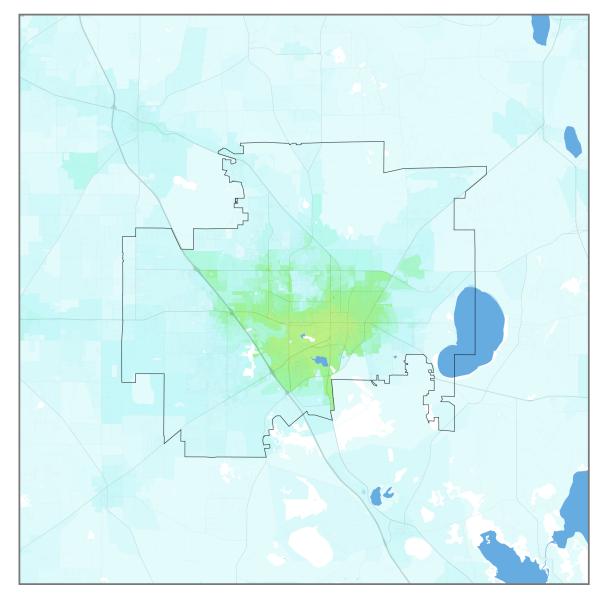




^{*}Beginning in data year 2018, federal jobs and federal workers are no longer included due to changes in underlying datasets from the U.S. Census Bureau. As a result, comparisons between 2018 and 2019 accessibility results are meaningful even in areas with large numbers of federal jobs.

Agency	Dates
Regional Transit System	August 20, 2018 - August 18, 2019

Gainesville MTPO





Heartland Regional TPO

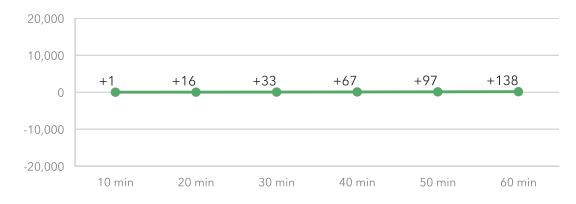
Job Accessibility Results-Transit, 2019

1-Year Change in Weighted Accessibility	+4.50%
Total Jobs	68,487
Average Job Density (per mi ²)	35
Total Workers	85,853
Average Worker Density (per mi ²)	43
	, ,

Job and worker totals are based on LEHD estimates and may not match other sources.

Average Job Accessibility by Travel Time Threshold (worker-weighted)

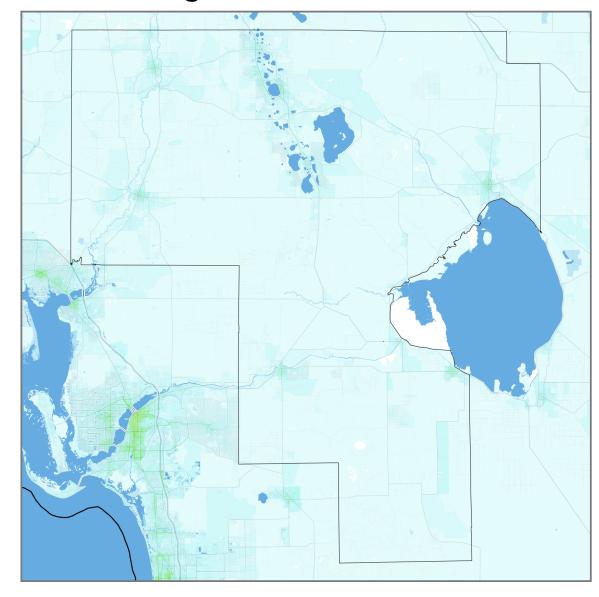




^{*}Beginning in data year 2018, federal jobs and federal workers are no longer included due to changes in underlying datasets from the U.S. Census Bureau. As a result, comparisons between 2018 and 2019 accessibility results are meaningful even in areas with large numbers of federal jobs.

No transit schedule information was available for agencies near this MPO.

Heartland Regional TPO





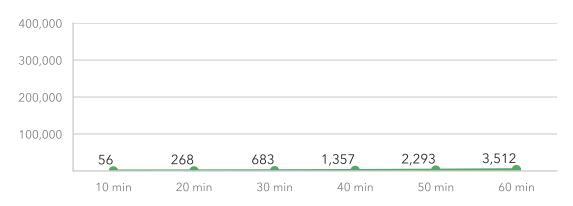
Hernando/Citrus MPO

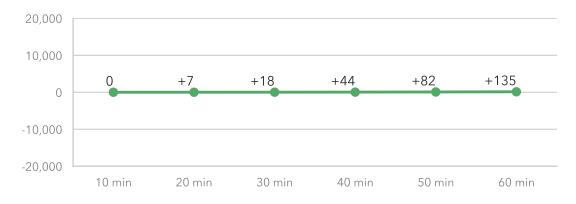
Job Accessibility Results-Transit, 2019

1-Year Change in Weighted Accessibility	+2.96%
Total Jobs	76,965
Average Job Density (per mi ²)	178
Total Workers	106,460
Average Worker Density (per mi ²)	246
	, ,

Job and worker totals are based on LEHD estimates and may not match other sources.

Average Job Accessibility by Travel Time Threshold (worker-weighted)

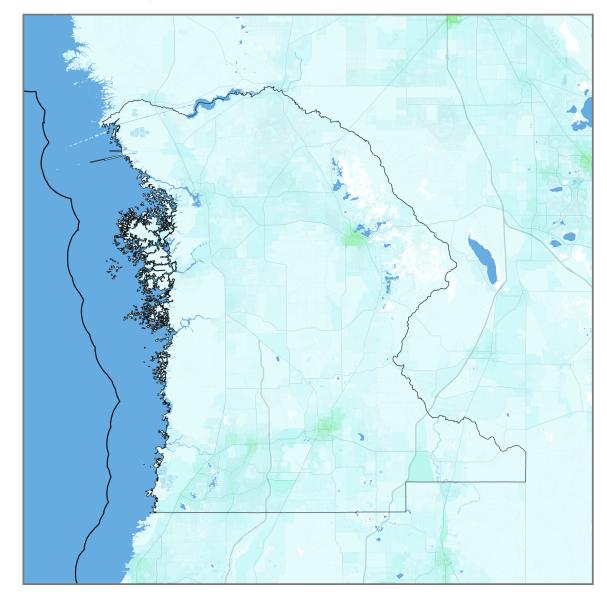




^{*}Beginning in data year 2018, federal jobs and federal workers are no longer included due to changes in underlying datasets from the U.S. Census Bureau. As a result, comparisons between 2018 and 2019 accessibility results are meaningful even in areas with large numbers of federal jobs.

Agency	Dates
Orange Line Bus (Citrus County Transit)	January 1, 2015 - July 1, 2016
The Hernando Express	January 1, 2015 - January 1, 2017

Hernando/Citrus MPO





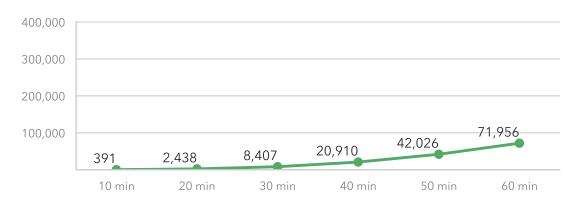
Hillsborough MPO

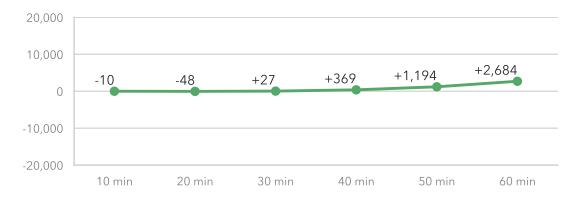
Job Accessibility Results-Transit, 2019

1-Year Change in Weighted Accessibility	+1.61%
Total Jobs	702,623
Average Job Density (per mi ²)	1638
Total Workers	609,745
Average Worker Density (per mi ²)	1422
11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

Job and worker totals are based on LEHD estimates and may not match other sources.

Average Job Accessibility by Travel Time Threshold (worker-weighted)

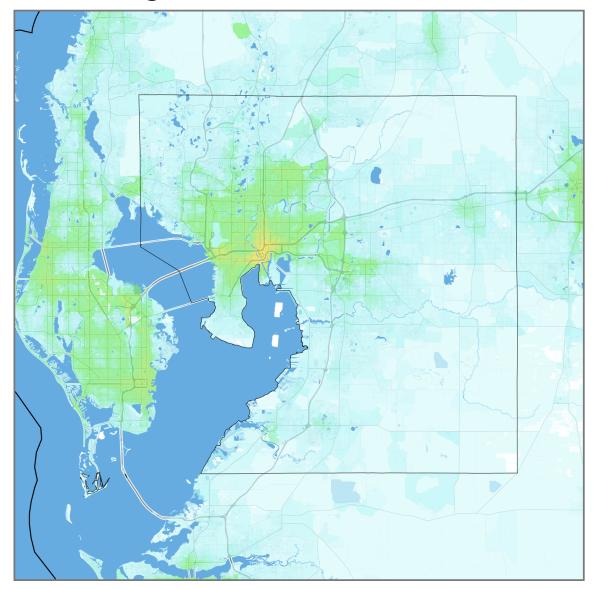


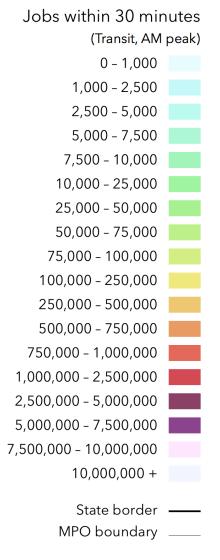


^{*}Beginning in data year 2018, federal jobs and federal workers are no longer included due to changes in underlying datasets from the U.S. Census Bureau. As a result, comparisons between 2018 and 2019 accessibility results are meaningful even in areas with large numbers of federal jobs.

Agency	Dates
Hillsborough Area Regional Transit	April 21, 2018 - July 13, 2019
Pinellas Suncoast Transit Authority	October 7, 2018 - June 1, 2019
USF Bull Runner	January 1, 2015 - December 31, 2020

Hillsborough MPO





Indian River County MPO

Job Accessibility Results-Transit, 2019

1-Year Change in Weighted Accessibility	+6.17%
Total Jobs	48,133
Average Job Density (per mi ²)	712
Total Workers	54,700
Average Worker Density (per mi ²)	809
	, ,

Job and worker totals are based on LEHD estimates and may not match other sources.

Average Job Accessibility by Travel Time Threshold (worker-weighted)

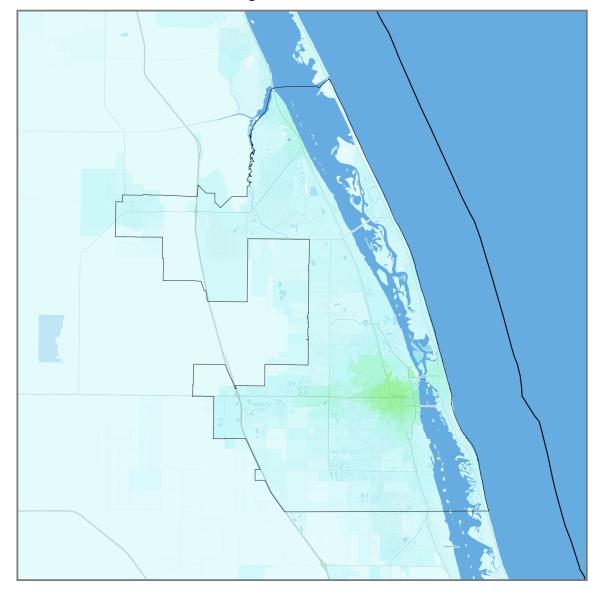




^{*}Beginning in data year 2018, federal jobs and federal workers are no longer included due to changes in underlying datasets from the U.S. Census Bureau. As a result, comparisons between 2018 and 2019 accessibility results are meaningful even in areas with large numbers of federal jobs.

No transit schedule information was available for agencies near this MPO.

Indian River County MPO





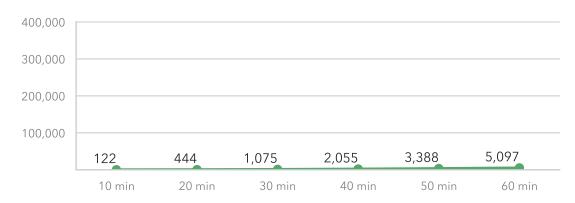
Lake-Sumter MPO

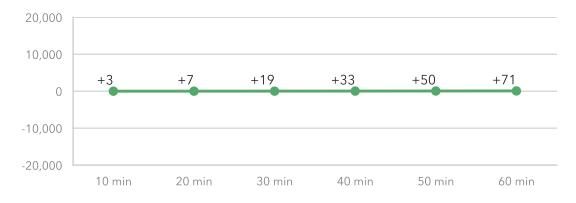
Job Accessibility Results-Transit, 2019

1-Year Change in Weighted Accessibility	+1.71%
Total Jobs	123,015
Average Job Density (per mi ²)	184
Total Workers	160,915
Average Worker Density (per mi ²)	241

Job and worker totals are based on LEHD estimates and may not match other sources.

Average Job Accessibility by Travel Time Threshold (worker-weighted)

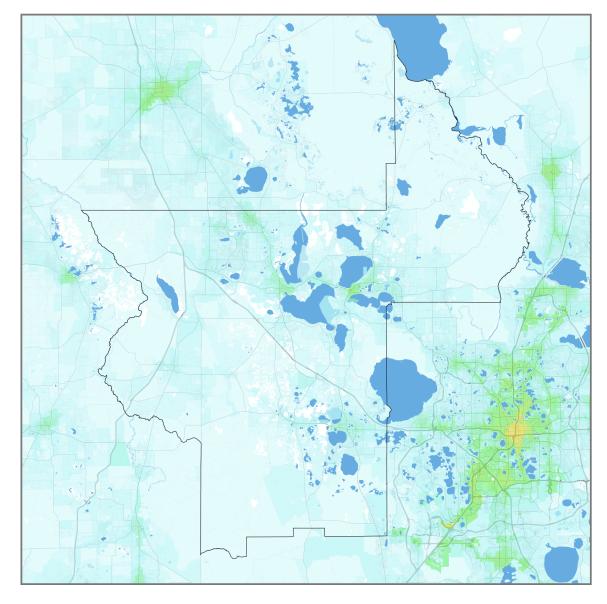




^{*}Beginning in data year 2018, federal jobs and federal workers are no longer included due to changes in underlying datasets from the U.S. Census Bureau. As a result, comparisons between 2018 and 2019 accessibility results are meaningful even in areas with large numbers of federal jobs.

Agency	Dates
Central Florida Regional Transit Authority	January 11, 2019 - April 27, 2019
Lake County	April 24, 2017 - April 20, 2020
Lakeland	October 27, 2018 - September 30, 2019
Polk County Transit Services	July 3, 2015 - December 31, 2015
Sumter County Transit	January 1, 2013 - December 31, 2018
Winter Haven Area Transit	July 3, 2015 - December 31, 2015

Lake-Sumter MPO



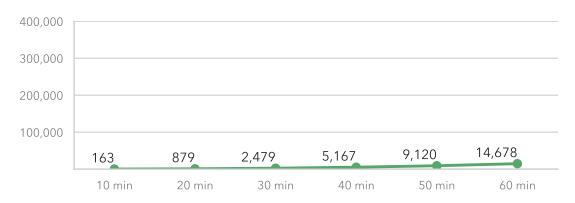


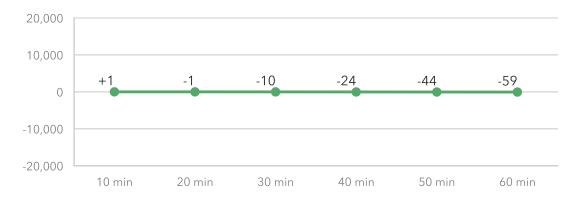
Lee County MPOJob Accessibility Results–Transit, 2019

1-Year Change in Weighted Accessibility	-0.31%
Total Jobs	247,684
Average Job Density (per mi ²)	777
Total Workers	264,790
Average Worker Density (per mi ²)	830

Job and worker totals are based on LEHD estimates and may not match other sources.

Average Job Accessibility by Travel Time Threshold (worker-weighted)

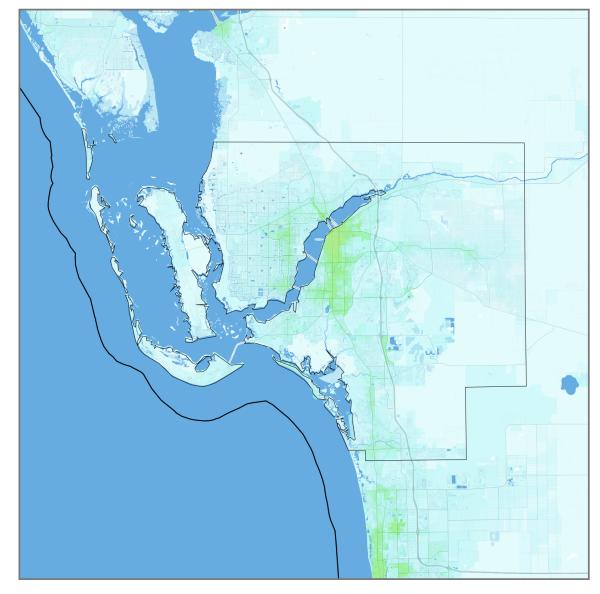




^{*}Beginning in data year 2018, federal jobs and federal workers are no longer included due to changes in underlying datasets from the U.S. Census Bureau. As a result, comparisons between 2018 and 2019 accessibility results are meaningful even in areas with large numbers of federal jobs.

Agency	Dates
LeeTran	April 12, 2018 - November 7, 2018

Lee County MPO





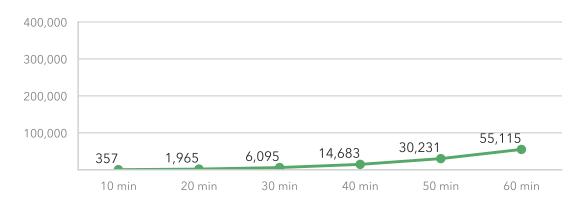
METROPLAN Orlando

Job Accessibility Results-Transit, 2019

1-Year Change in Weighted Accessibility	+2.41%
Total Jobs	1,164,787
Average Job Density (per mi ²)	1055
Total Workers	998,633
Average Worker Density (per mi ²)	905

Job and worker totals are based on LEHD estimates and may not match other sources.

Average Job Accessibility by Travel Time Threshold (worker-weighted)

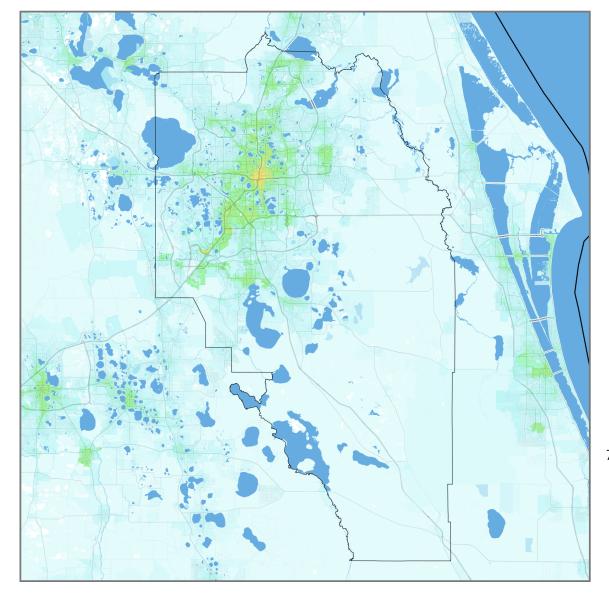


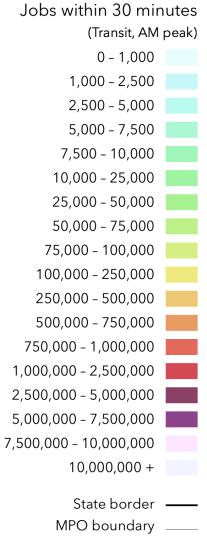


^{*}Beginning in data year 2018, federal jobs and federal workers are no longer included due to changes in underlying datasets from the U.S. Census Bureau. As a result, comparisons between 2018 and 2019 accessibility results are meaningful even in areas with large numbers of federal jobs.

Agency	Dates
Central Florida Regional Transit Authority	January 11, 2019 - April 27, 2019
Florida Department of Transportation	July 30, 2018 - December 31, 2020
I-RIDE Trolley	January 1, 2018 - December 31, 2019
Lake County	April 24, 2017 - April 20, 2020
Lakeland	October 27, 2018 - September 30, 2019
Sanford Community Redevelopment Agency	November 20, 2018 - June 1, 2019
Winter Haven Area Transit	July 3, 2015 - December 31, 2015

METROPLAN Orlando





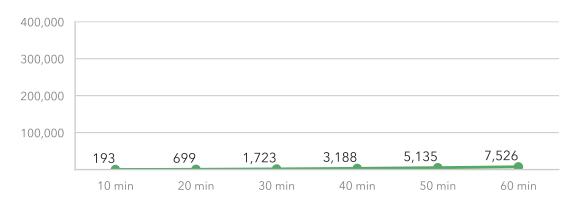
Martin MPO

Job Accessibility Results-Transit, 2019

1-Year Change in Weighted Accessibility	+1.40%
Total Jobs	66,473
Average Job Density (per mi ²)	316
Total Workers	60,224
Average Worker Density (per mi ²)	286

Job and worker totals are based on LEHD estimates and may not match other sources.

Average Job Accessibility by Travel Time Threshold (worker-weighted)

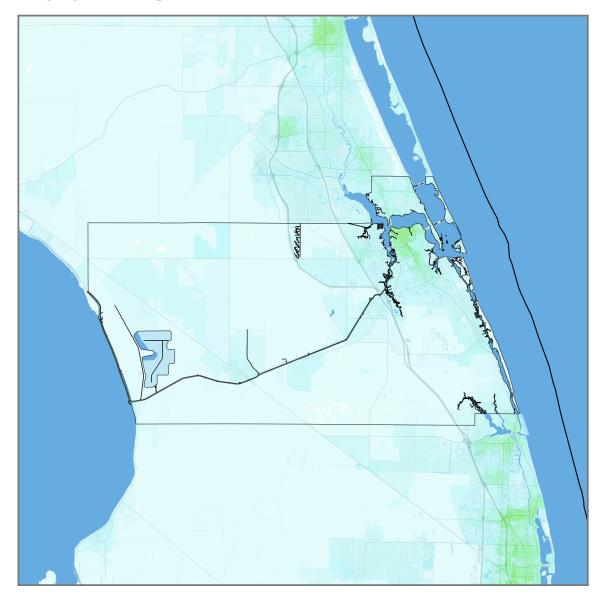


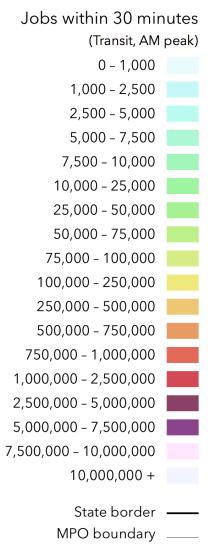


^{*}Beginning in data year 2018, federal jobs and federal workers are no longer included due to changes in underlying datasets from the U.S. Census Bureau. As a result, comparisons between 2018 and 2019 accessibility results are meaningful even in areas with large numbers of federal jobs.

Agency	Dates
Martin County Public Transit	May 1, 2013 - December 31, 2014
Treasure Coast Connector	May 18, 2015 - December 31, 2015

Martin MPO





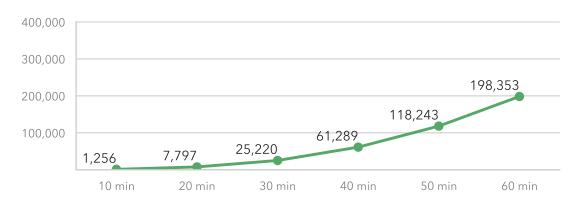
Miami-Dade TPO

Job Accessibility Results-Transit, 2019

1-Year Change in Weighted Accessibility	+1.71%
Total Jobs	1,123,350
Average Job Density (per mi ²)	1440
Total Workers	1,081,941
Average Worker Density (per mi ²)	1387

Job and worker totals are based on LEHD estimates and may not match other sources.

Average Job Accessibility by Travel Time Threshold (worker-weighted)

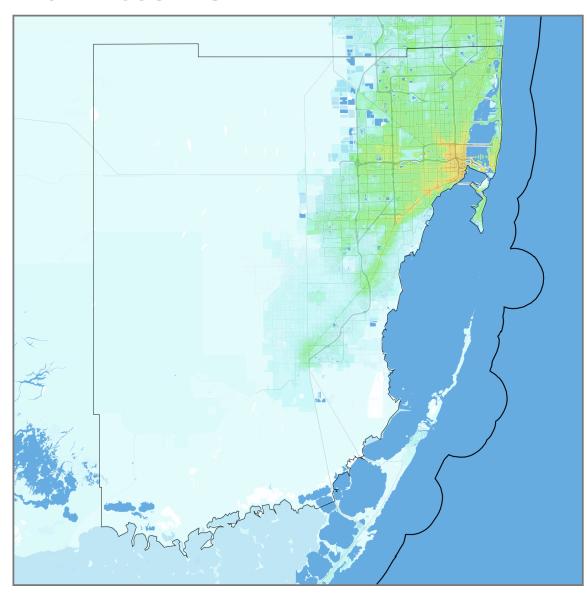




^{*}Beginning in data year 2018, federal jobs and federal workers are no longer included due to changes in underlying datasets from the U.S. Census Bureau. As a result, comparisons between 2018 and 2019 accessibility results are meaningful even in areas with large numbers of federal jobs.

Agency	Dates
Broward County Transit	January 14, 2018 - September 8, 2018
Miami-Dade Transit	March 11, 2018 - July 28, 2018
SFRTA/Tri-Rail	April 20, 2012 - December 31, 2024

Miami-Dade TPO





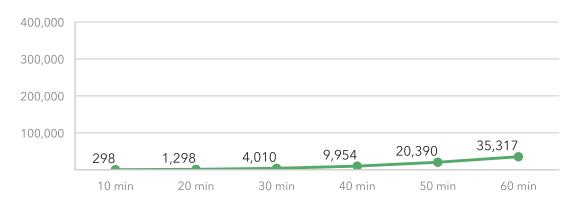
North Florida Transportation Planning Organization

Job Accessibility Results-Transit, 2019

1-Year Change in Weighted Accessibility	+3.89%
Total Jobs	687,323
Average Job Density (per mi ²)	664
Total Workers	652,213
Average Worker Density (per mi ²)	630
11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

Job and worker totals are based on LEHD estimates and may not match other sources.

Average Job Accessibility by Travel Time Threshold (worker-weighted)

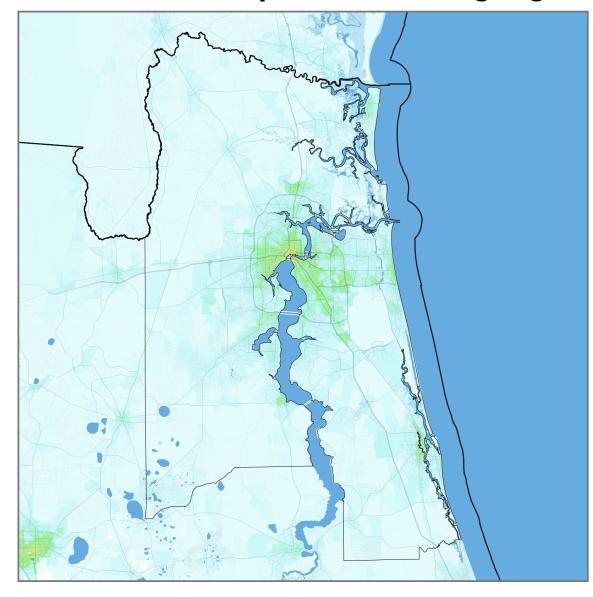




^{*}Beginning in data year 2018, federal jobs and federal workers are no longer included due to changes in underlying datasets from the U.S. Census Bureau. As a result, comparisons between 2018 and 2019 accessibility results are meaningful even in areas with large numbers of federal jobs.

Agency	Dates
Jacksonville Transportation Authority	December 3, 2018 - August 4, 2019
Sunshine Bus Company	July 1, 2015 - January 1, 2021

North Florida Transportation Planning Organization





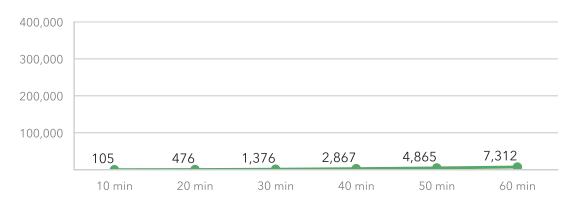
Ocala - Marion County Tranportation Planning Organization

Job Accessibility Results-Transit, 2019

1-Year Change in Weighted Accessibility	+4.86%
Total Jobs	101,552
Average Job Density (per mi ²)	158
Total Workers	120,513
Average Worker Density (per mi ²)	188

Job and worker totals are based on LEHD estimates and may not match other sources.

Average Job Accessibility by Travel Time Threshold (worker-weighted)

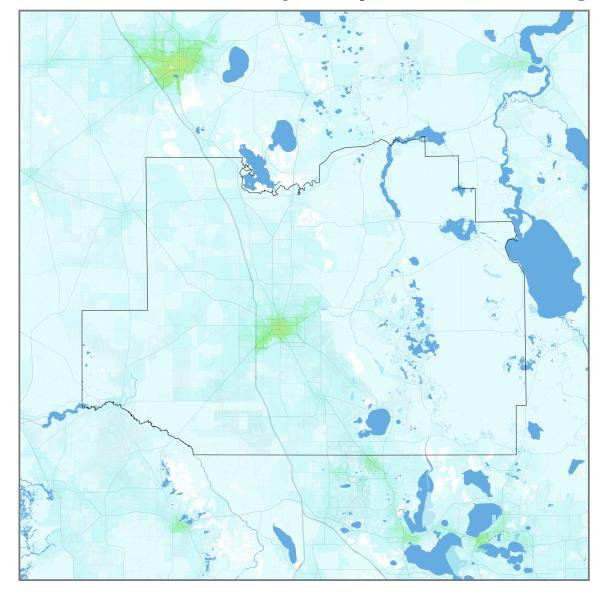


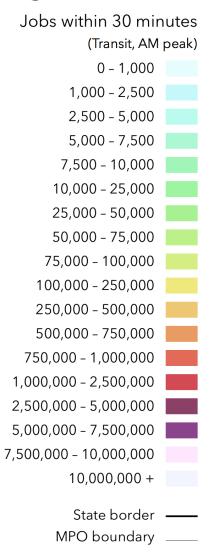


^{*}Beginning in data year 2018, federal jobs and federal workers are no longer included due to changes in underlying datasets from the U.S. Census Bureau. As a result, comparisons between 2018 and 2019 accessibility results are meaningful even in areas with large numbers of federal jobs.

Agency	Dates
SunTran (City of Ocala)	July 1, 2015 - January 1, 2021

Ocala - Marion County Tranportation Planning Organization





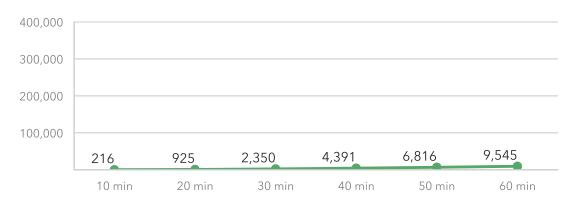
Okaloosa-Walton Transportation Planning Organization

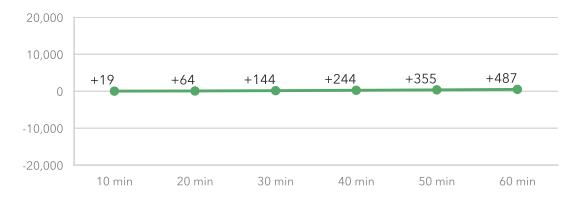
Job Accessibility Results-Transit, 2019

1-Year Change in Weighted Accessibility	+6.58%
Total Jobs	112,618
Average Job Density (per mi ²)	200
Total Workers	94,338
Average Worker Density (per mi ²)	167

Job and worker totals are based on LEHD estimates and may not match other sources.

Average Job Accessibility by Travel Time Threshold (worker-weighted)

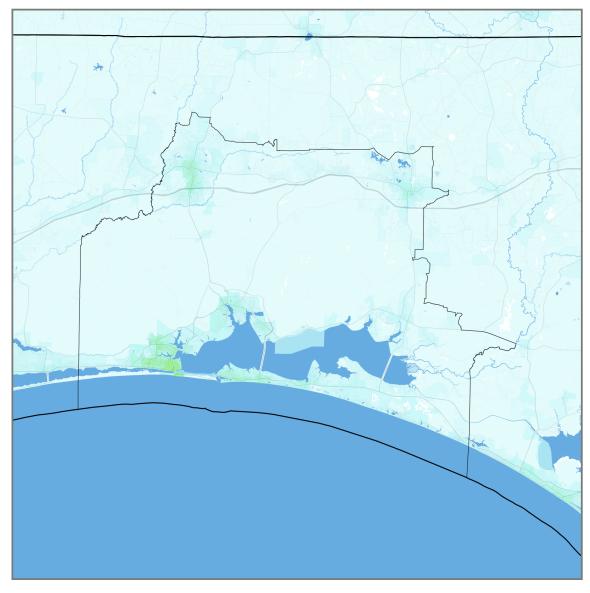




^{*}Beginning in data year 2018, federal jobs and federal workers are no longer included due to changes in underlying datasets from the U.S. Census Bureau. As a result, comparisons between 2018 and 2019 accessibility results are meaningful even in areas with large numbers of federal jobs.

Agency	Dates
Emerald Coast Rider	July 1, 2015 - July 1, 2016

Okaloosa-Walton Transportation Planning Organization





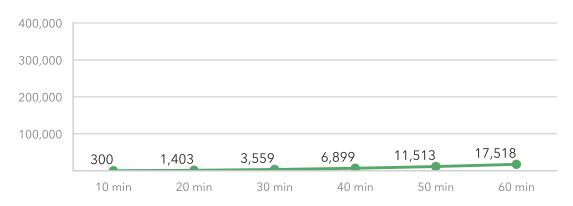
Palm Beach MPO

Job Accessibility Results-Transit, 2019

1-Year Change in Weighted Accessibility	-44.41%
Total Jobs	604,516
Average Job Density (per mi ²)	791
Total Workers	578,036
Average Worker Density (per mi ²)	756

Job and worker totals are based on LEHD estimates and may not match other sources.

Average Job Accessibility by Travel Time Threshold (worker-weighted)

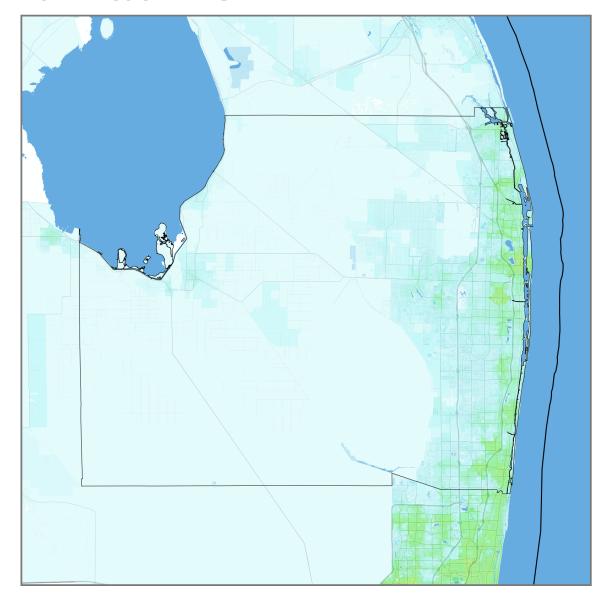


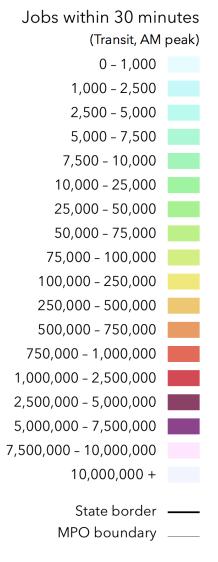


^{*}Beginning in data year 2018, federal jobs and federal workers are no longer included due to changes in underlying datasets from the U.S. Census Bureau. As a result, comparisons between 2018 and 2019 accessibility results are meaningful even in areas with large numbers of federal jobs.

Agency	Dates
Broward County Transit	January 14, 2018 - September 8, 2018
Palm Tran	January 24, 2019 - January 24, 2020
SFRTA/Tri-Rail	April 20, 2012 - December 31, 2024

Palm Beach MPO





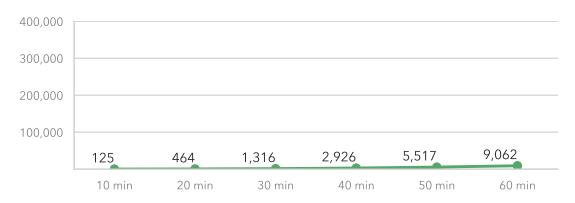
Pasco County MPO

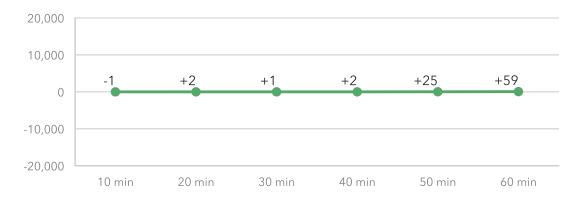
Job Accessibility Results-Transit, 2019

1-Year Change in Weighted Accessibility	+0.24%
Total Jobs	118,991
Average Job Density (per mi ²)	402
Total Workers	199,646
Average Worker Density (per mi ²)	674
table and the development of the second and LEUD and an extension of the second and the second a	

Job and worker totals are based on LEHD estimates and may not match other sources.

Average Job Accessibility by Travel Time Threshold (worker-weighted)

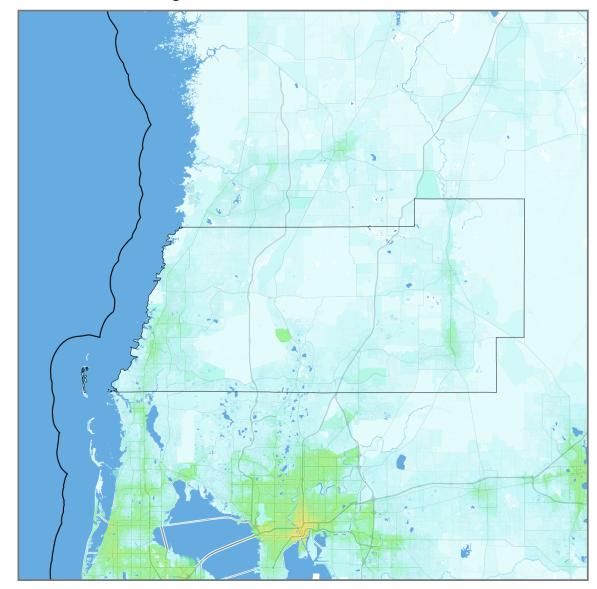




^{*}Beginning in data year 2018, federal jobs and federal workers are no longer included due to changes in underlying datasets from the U.S. Census Bureau. As a result, comparisons between 2018 and 2019 accessibility results are meaningful even in areas with large numbers of federal jobs.

Agency	Dates
Hillsborough Area Regional Transit	April 21, 2018 - July 13, 2019
Pasco County Public Transportation	December 18, 2017 - January 1, 2021
The Hernando Express	January 1, 2015 - January 1, 2017

Pasco County MPO





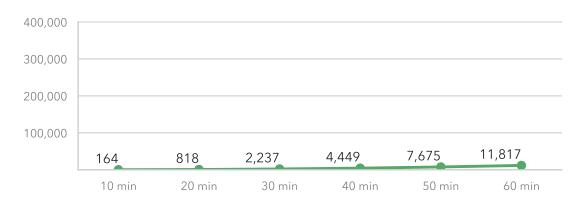
Polk County Transportation Planning Organization

Job Accessibility Results-Transit, 2019

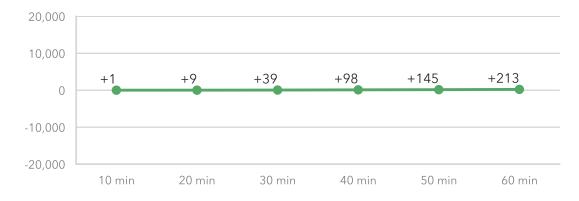
1-Year Change in Weighted Accessibility	+1.69%
Total Jobs	232,441
Average Job Density (per mi ²)	299
Total Workers	272,961
Average Worker Density (per mi ²)	351

Job and worker totals are based on LEHD estimates and may not match other sources.

Average Job Accessibility by Travel Time Threshold (worker-weighted)



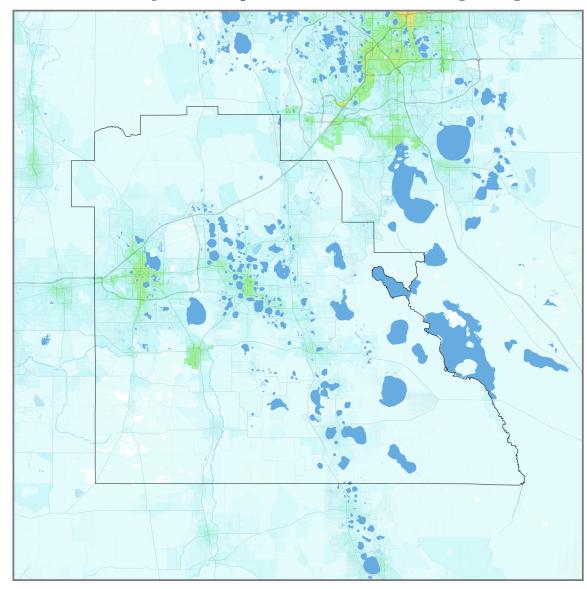
Average 1-Year Change in Job Accessibility by Travel Time Threshold (worker-weighted)*



^{*}Beginning in data year 2018, federal jobs and federal workers are no longer included due to changes in underlying datasets from the U.S. Census Bureau. As a result, comparisons between 2018 and 2019 accessibility results are meaningful even in areas with large numbers of federal jobs.

Agency	Dates
Central Florida Regional Transit Authority	January 11, 2019 - April 27, 2019
Lakeland	October 27, 2018 - September 30, 2019
Polk County Transit Services	July 3, 2015 - December 31, 2015
Winter Haven Area Transit	July 3, 2015 - December 31, 2015

Polk County Transportation Planning Organization





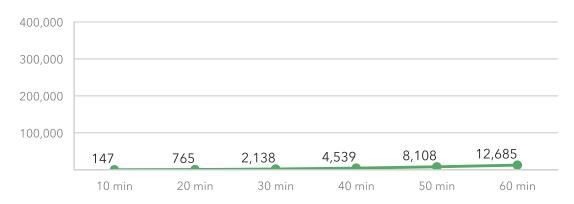
River to Sea Transporation Planning Organization

Job Accessibility Results-Transit, 2019

1-Year Change in Weighted Accessibility	+4.76%
Total Jobs	191,122
Average Job Density (per mi ²)	365
Total Workers	249,393
Average Worker Density (per mi ²)	476

Job and worker totals are based on LEHD estimates and may not match other sources.

Average Job Accessibility by Travel Time Threshold (worker-weighted)



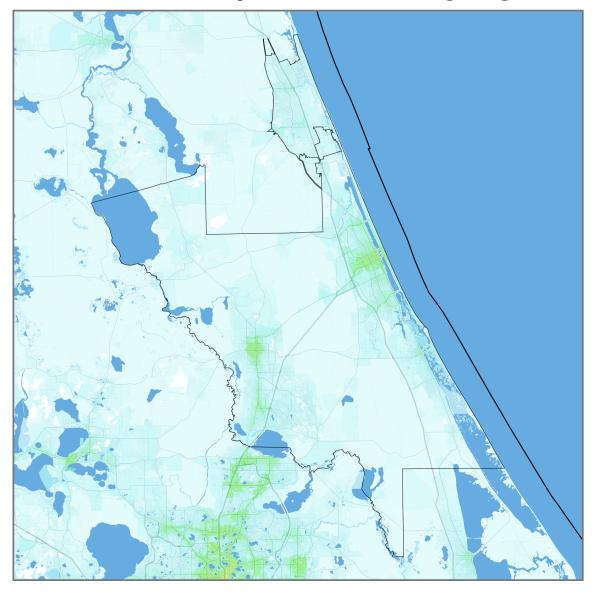
Average 1-Year Change in Job Accessibility by Travel Time Threshold (worker-weighted)*



^{*}Beginning in data year 2018, federal jobs and federal workers are no longer included due to changes in underlying datasets from the U.S. Census Bureau. As a result, comparisons between 2018 and 2019 accessibility results are meaningful even in areas with large numbers of federal jobs.

Agency	Dates
Florida Department of Transportation	July 30, 2018 - December 31, 2020
Votran	September 7, 2018 - September 21, 2019

River to Sea Transporation Planning Organization





Sarasota-Manatee MPO

Job Accessibility Results-Transit, 2019

1-Year Change in Weighted Accessibility	+16.68%
Total Jobs	283,010
Average Job Density (per mi ²)	549
Total Workers	296,353
Average Worker Density (per mi ²)	575

Job and worker totals are based on LEHD estimates and may not match other sources.

Average Job Accessibility by Travel Time Threshold (worker-weighted)



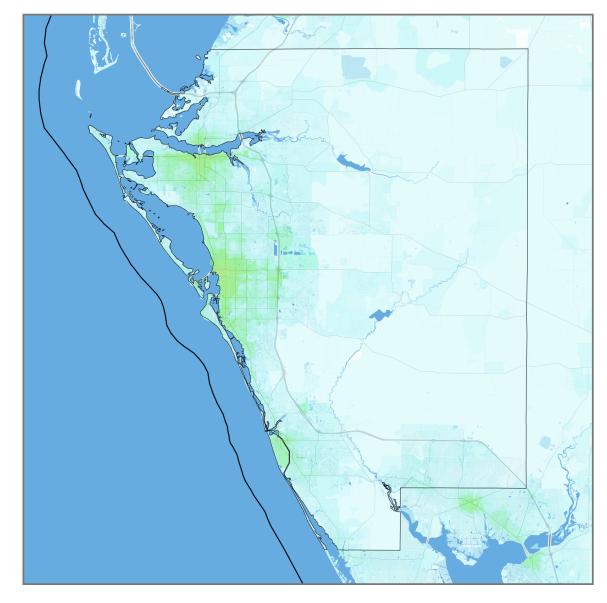
Average 1-Year Change in Job Accessibility by Travel Time Threshold $(worker-weighted)^*$



^{*}Beginning in data year 2018, federal jobs and federal workers are no longer included due to changes in underlying datasets from the U.S. Census Bureau. As a result, comparisons between 2018 and 2019 accessibility results are meaningful even in areas with large numbers of federal jobs.

Agency	Dates
Manatee County Area Transit	April 15, 2017 - January 1, 2020
Sarasota County Area Transit	December 22, 2018 - May 4, 2019

Sarasota-Manatee MPO





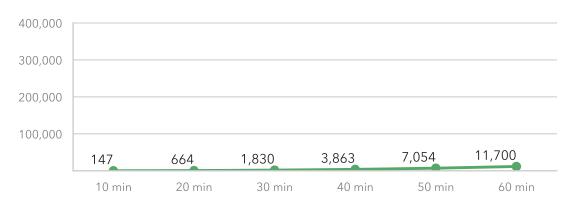
Space Coast Transportation Planning Organization

Job Accessibility Results-Transit, 2019

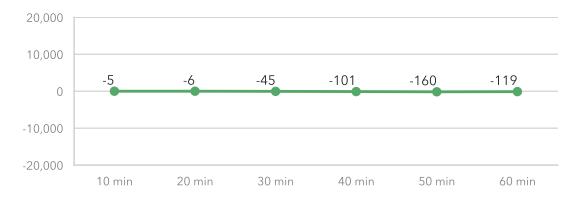
1-Year Change in Weighted Accessibility	-1.94%
Total Jobs	200,563
Average Job Density (per mi ²)	487
Total Workers	227,237
Average Worker Density (per mi ²)	552

Job and worker totals are based on LEHD estimates and may not match other sources.

Average Job Accessibility by Travel Time Threshold (worker-weighted)



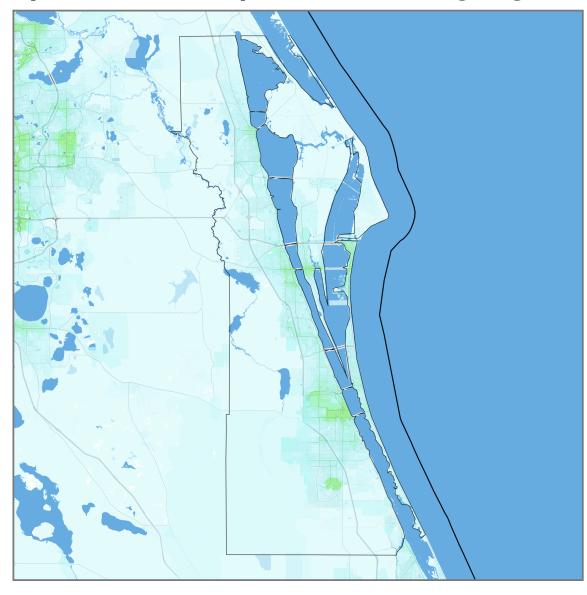
Average 1-Year Change in Job Accessibility by Travel Time Threshold (worker-weighted)*



^{*}Beginning in data year 2018, federal jobs and federal workers are no longer included due to changes in underlying datasets from the U.S. Census Bureau. As a result, comparisons between 2018 and 2019 accessibility results are meaningful even in areas with large numbers of federal jobs.

Agency	Dates
Space Coast Area Transit	October 6, 2018 - January 1, 2020

Space Coast Transportation Planning Organization





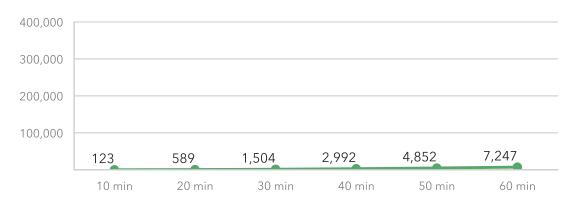
St. Lucie Transportation Planning Organization

Job Accessibility Results-Transit, 2019

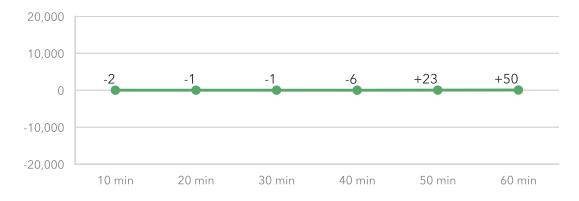
1-Year Change in Weighted Accessibility	-0.04%
Total Jobs	74,914
Average Job Density (per mi ²)	334
Total Workers	115,548
Average Worker Density (per mi ²)	516

Job and worker totals are based on LEHD estimates and may not match other sources.

Average Job Accessibility by Travel Time Threshold (worker-weighted)



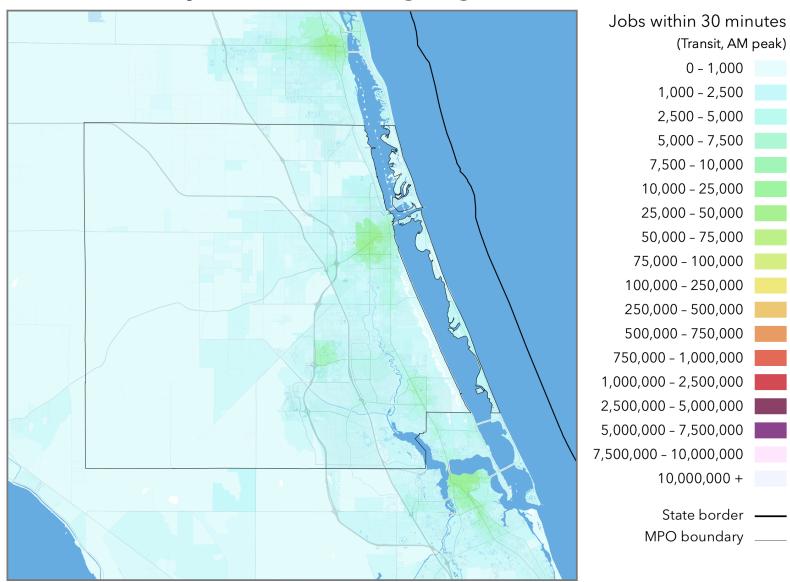
Average 1-Year Change in Job Accessibility by Travel Time Threshold (worker-weighted)*



^{*}Beginning in data year 2018, federal jobs and federal workers are no longer included due to changes in underlying datasets from the U.S. Census Bureau. As a result, comparisons between 2018 and 2019 accessibility results are meaningful even in areas with large numbers of federal jobs.

Agency	Dates
Martin County Public Transit	May 1, 2013 - December 31, 2014
Treasure Coast Connector	May 18, 2015 - December 31, 2015

St. Lucie Transportation Planning Organization



2.3 Accessibility by County

Table 26: Average Job Accessibility by Travel Time Threshold for Counties (Transit, AM Peak)

County	10 min	20 min	30 min	40 min	50 min	60 min
Alachua	373	2,528	8,423	17,198	28,163	39,942
Baker	65	253	539	903	1,247	1,619
Bay	153	790	2,197	4,395	7,382	11,050
Bradford	65	254	505	724	916	1,111
Brevard	147	665	1,833	3,866	7,055	11,693
Broward	406	2,744	10,105	26,615	56,087	102,445
Calhoun	56	124	210	316	448	559
Charlotte	92	464	1,152	2,185	3,388	4,761
Citrus	40	170	389	696	1,096	1,577
Clay	170	519	1,254	2,232	3,423	4,738
Collier	192	784	2,158	4,557	8,218	13,437
Columbia	107	384	866	1,418	1,993	2,614
DeSoto	120	495	1,021	1,518	1,912	2,246
Dixie	27	83	128	163	198	275
Duval	363	1,704	5,465	13,954	29,098	50,952
Escambia	223	1,348	4,078	9,115	16,618	26,732
Flagler	46	130	332	652	1,104	1,654
Franklin	83	235	388	490	565	636
Gadsden	99	274	500	733	952	1,150
Gilchrist	31	81	145	200	249	309
Glades	36	92	154	248	309	406
Gulf	70	186	325	457	573	654
Hamilton	35	137	220	264	307	500
Hardee	83	341	579	839	1,030	1,194
Hendry	165	676	1,192	1,555	1,973	2,359
Hernando	67	336	888	1,818	3,127	4,860
Highlands	84	324	665	1,133	1,621	2,095
Hillsborough	391	2,438	8,406	20,907	42,020	71,947
Holmes	39	155	275	381	472	543
Indian River	125	581	1,352	2,432	3,811	5,530
Jackson	78	270	489	728	959	1,212
Jefferson	27	67	114	168	211	237
Lafayette	37	96	124	170	230	276
Lake	133	477	1,159	2,212	3,653	5,526
Lee	164	889	2,502	5,197	9,157	14,711
Leon	240	1,423	3,839	7,526	12,236	18,166
Levy	33	109	198	270	354	451
Liberty	85	124	162	208	249	290

Table 26: (continued)

Madison	75	229	420	543	649	740
Manatee	200	1,073	3,234	7,266	13,426	21,684
Marion	105	476	1,376	2,863	4,859	7,304
Martin	193	699	1,725	3,193	5,136	7,521
Miami-Dade	1,260	7,829	25,348	61,479	118,532	198,721
Monroe	399	1,481	2,643	3,925	5,220	6,504
Nassau	90	306	696	1,102	1,515	1,917
Okaloosa	223	1,051	2,719	5,100	7,920	11,079
Okeechobee	83	353	782	1,286	1,826	2,377
Orange	454	2,580	8,051	19,612	40,580	73,564
Osceola	156	698	2,051	4,491	9,071	18,143
Palm Beach	300	1,403	3,559	6,899	11,513	17,518
Pasco	125	464	1,316	2,926	5,517	9,062
Pinellas	462	2,764	9,128	21,476	41,479	70,037
Polk	164	818	2,237	4,449	7,674	11,816
Putnam	85	297	623	1,015	1,466	1,947
Santa Rosa	98	289	657	1,169	1,844	2,639
Sarasota	253	1,454	4,404	9,909	18,381	29,608
Seminole	223	1,121	3,424	7,954	15,925	29,065
St. Johns	200	543	1,198	2,268	3,685	5,290
St. Lucie	123	588	1,504	2,989	4,849	7,245
Sumter	58	251	592	1,166	1,880	2,654
Suwannee	66	257	484	740	940	1,179
Taylor	59	243	514	826	1,119	1,433
Union	57	172	247	323	387	465
Volusia	162	865	2,424	5,154	9,218	14,435
Wakulla	30	95	198	353	491	644
Walton	120	212	383	649	996	1,439
Washington	40	241	436	623	791	918

3 Data Sources and Methodology

The following sections provide a brief overview of the data sources and methodology used to prepare this report. For a detailed description, please consult the Accessibility Observatory's *Access Across America:* 2018 Methodology report.

3.1 Travel Times by Transit

Travel times by transit were calculated using General Transit Feed Specification (GTFS) data and Open-StreetMap road network data. GTFS data are included wherever feeds are made available by transit agencies, and the targeted service date for analysis was January 23rd, 2019, to reflect non-holiday, normal weekday service schedules. A list of transit agencies statewide for which GTFS data were available and included in the computations is given below.

Agency	Dates		
Bay Town Trolley	September 1, 2016 - January 1, 2020		
Broward County Transit	January 14, 2018 - September 8, 2018		
Central Florida Regional Transit Authority	January 11, 2019 - April 27, 2019		
Collier Area Transit - CAT	August 7, 2019 - December 31, 2019		
Emerald Coast Rider	July 1, 2015 - July 1, 2016		
Escambia County Area Transit	August 1, 2015 - January 1, 2021		
Florida Department of Transportation	July 30, 2018 - December 31, 2020		
Hillsborough Area Regional Transit	April 21, 2018 - July 13, 2019		
I-RIDE Trolley	January 1, 2018 - December 31, 2019		
Jacksonville Transportation Authority	December 3, 2018 - August 4, 2019		
Key West Transit	January 1, 2018 – January 1, 2021		
Lake County	April 24, 2017 - April 20, 2020		
Lakeland	October 27, 2018 - September 30, 2019		
LeeTran	April 12, 2018 - November 7, 2018		
Manatee County Area Transit	April 15, 2017 - January 1, 2020		
Martin County Public Transit	May 1, 2013 - December 31, 2014		
Miami-Dade Transit	March 11, 2018 - July 28, 2018		
Orange Line Bus (Citrus County Transit)	January 1, 2015 - July 1, 2016		
Palm Tran	January 24, 2019 - January 24, 2020		
Pasco County Public Transportation	December 18, 2017 - January 1, 2021		
Pinellas Suncoast Transit Authority	October 7, 2018 - June 1, 2019		
Polk County Transit Services	July 3, 2015 - December 31, 2015		
Regional Transit System	August 20, 2018 - August 18, 2019		
SFRTA/Tri-Rail	April 20, 2012 - December 31, 2024		
Sanford Community Redevelopment Agency	November 20, 2018 - June 1, 2019		
Sarasota County Area Transit	December 22, 2018 - May 4, 2019		

Space Coast Area Transit	October 6, 2018 - January 1, 2020		
StarMetro	August 11, 2018 - January 1, 2021		
Sumter County Transit	January 1, 2013 - December 31, 2018		
SunTran (City of Ocala)	July 1, 2015 - January 1, 2021		
Sunshine Bus Company	July 1, 2015 - January 1, 2021		
The Hernando Express	January 1, 2015 – January 1, 2017		
Treasure Coast Connector	May 18, 2015 - December 31, 2015		
USF Bull Runner	January 1, 2015 - December 31, 2020		
Votran	September 7, 2018 - September 21, 2019		
Winter Haven Area Transit	July 3, 2015 - December 31, 2015		

3.2 Geography

Census blocks are the fundamental unit for travel time and accessibility calculation, and block-level accessibility results are aggregated over larger areas for analysis. When calculating accessibility for an individual origin, all potential destinations within 37.3 miles (60km) are included, even if those destinations are located in a different state or other jurisdiction. Only locations within the United States are included. The MPO jurisdictions used for aggregate analysis are based on data provided in the US Department of Transportation's National Transportation Atlas Database 2016^{*}.

3.3 Population and Job Distribution

Data describing the distribution of labor and employment in the region are drawn from the U.S. Census Bureau's Longitudinal Employer-Household Dynamics program (LEHD)[†]. The LEHD Origin-Destination Employment Statistics (LODES) dataset, which is updated annually, provides Census block-level estimates of employee home and work locations. This analysis uses LODES data from 2017, the most recent available as of this writing, as well as from 2016 to allow for annual comparisons.

3.4 Accessibility Calculation

The accessibility metrics presented in this analysis are *cumulative opportunity* metrics—they reflect the total amount of opportunities (in this case, jobs) reachable within given travel time thresholds from an origin location. To calculate these metrics, the travel time calculations described above are performed first to identify the travel time from one origin to all surrounding destinations. Next, the number of jobs at each destination is summed for all destinations that can be reached within a given travel time threshold, providing the accessibility value for a single origin at a single departure time.

This process provides accessibility values for individual Census blocks. To summarize this block-level data to larger areas such as MPOs and states, the accessibility values for the relevant blocks are weighted by the number of workers living in each block and then averaged. This person-weighted approach allows the summary metric to reflect the distribution of residents within the area. For example, a person-weighted accessibility value of 134,173 indicates that a typical resident within the area can reach 134,173 jobs.

In the case of accessibility by transit, local accessibility levels depend not just on the availability and routes of transit service but also on their frequency. A traveler using transit service that runs more frequently will have to spend less time waiting. In order to reflect transit frequency, transit accessibility values are calculated at each minute and then averaged to reflect typical accessibility levels during a time period of interest. The summary data in this analysis used the 7-9 AM time period. Because the road and highway system is available for departures at any time, accessibility by driving is calculated for individual departure times, such as 8 AM.

^{*}http://www.rita.dot.gov/bts/sites/rita.dot.gov.bts/files/publications/national_transportation_atlas_database/index.html

[†]http://lehd.ces.census.gov/data/

3.5 Comparisons With 2018 Data

This analysis uses the same tools, techniques and study scale as the *Access Across America: Transit 2015–2018* reports. GTFS data are now sufficiently consistent to allow for year to year comparisons of transit accessibility, and federal jobs and federal worker data are included in U.S. Census Bureau datasets in both data year 2018 and data year 2019. As a result, comparisons between 2018 and 2019 accessibility results allow for meaningful inferences in changes in employment, land use, and transportation networks.

This update of datasource, in combination with increased GTFS consistency, allows observation of significant land use changes (namely, job growth and mixed-use densification in certain metropolitan areas), and the impact of land use on how accessible a city will turn out to be. The precise disentanglement of accessibility changes due to land use mix or transit improvements (and determining relative percentage apportionment) requires a significant increase in the amount of accessibility computations, but the relative impacts can be estimated by computing accessibility using multiple years of LEHD data (see methodology explanation in *Access Across America: Transit 2019 Methodology*).