

2018 Transit Accessibility Report: Florida

Prepared for the state of Florida by the
Accessibility Observatory at the University of Minnesota

December 18, 2019



**ACCESSIBILITY
OBSERVATORY**

UNIVERSITY OF MINNESOTA

Driven to DiscoverSM

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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 2018 Methodology*, describes the methodology and data sources in greater detail.

2 Accessibility Evaluation Results

2.1 Statewide Accessibility

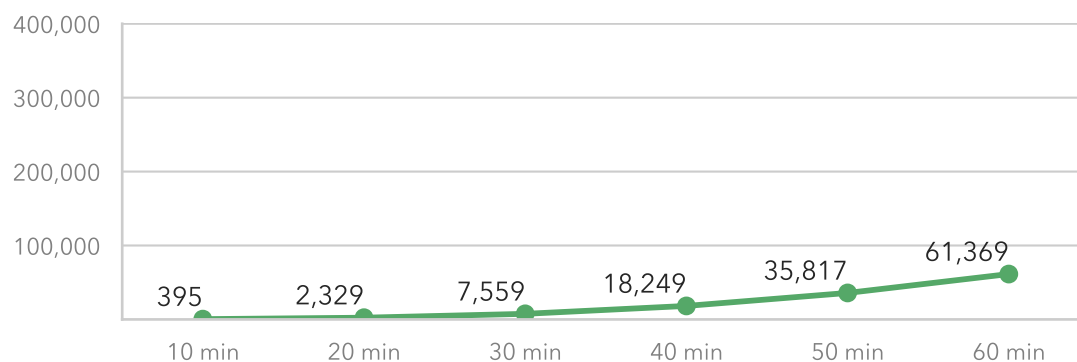
Florida

Job Accessibility Results—Transit, 2018

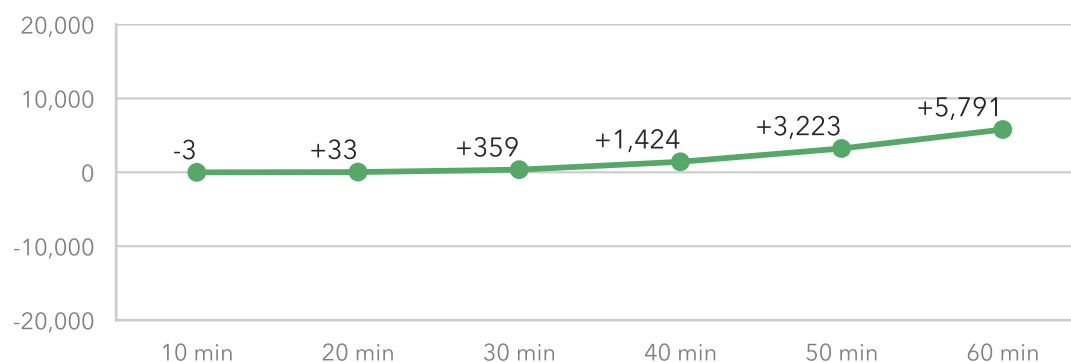
1-Year Change in Weighted Accessibility	7.09%
Total Jobs	8,260,338
Average Job Density (per mi ²)	152
Total Workers	8,261,223
Average Worker Density (per mi ²)	152

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)*



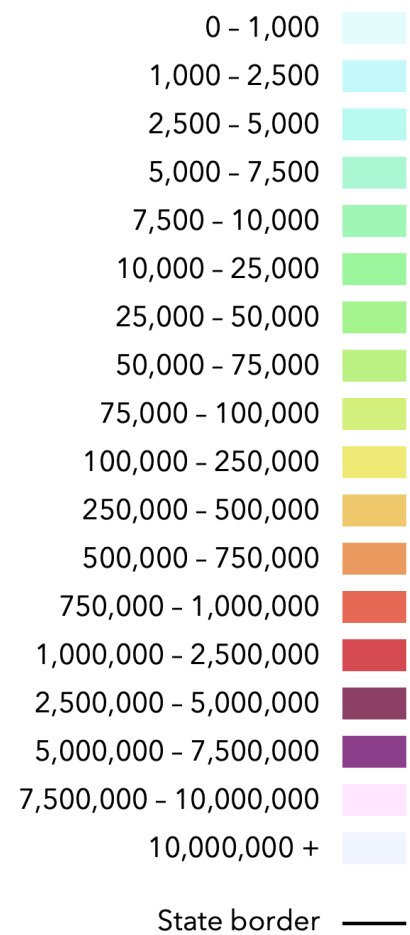
*Beginning in data year 2018, federal jobs and federal workers are not included due to changes in underlying datasets from the U.S. Census Bureau. As a result, comparisons between 2017 and 2018 accessibility results are less accurate in areas where federal employment is a greater share of total employment.

Florida



Jobs within 30 minutes

(Transit, AM peak)



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 Transportation Planning Organization
- Okaloosa-Walton Transportation Planning Organization
- Palm Beach MPO
- Pasco County MPO

- Polk County Transportation Planning Organization
- River to Sea Transportation 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	160	799	2,206	4,360	7,321	10,957
Broward MPO	405	2,752	10,165	26,890	56,796	103,764
Capital Region Transportation Planning Agency	198	1,304	4,322	10,379	19,551	30,738
Charlotte-Punta Gorda MPO	88	454	1,130	2,146	3,341	4,711
Collier MPO	181	748	2,018	4,171	7,483	12,223
Florida-Alabama Transportation Planning Organization	176	951	2,796	6,132	11,087	17,728
Forward Pinellas	460	2,846	9,573	22,615	43,607	73,571
Gainesville MTPO	450	3,159	10,652	21,981	36,101	51,172
Heartland Regional TPO	99	387	757	1,145	1,538	1,898
Hernando/Citrus MPO	56	261	665	1,313	2,211	3,377
Hillsborough MPO	401	2,486	8,380	20,541	40,832	69,272
Indian River County MPO	118	553	1,290	2,333	3,661	5,327
Lake-Sumter MPO	119	437	1,056	2,022	3,338	5,026
Lee County MPO	162	880	2,489	5,191	9,164	14,737
METROPLAN Orlando	348	1,910	5,967	14,346	29,503	53,860
Martin MPO	187	682	1,696	3,162	5,118	7,525
Miami-Dade TPO	1,218	7,593	24,761	60,336	116,651	196,030
North Florida Transportation Planning Organization	285	1,266	3,902	9,584	19,494	33,728
Ocala - Marion County Transportation Planning Organization	107	471	1,302	2,687	4,545	6,843
Okaloosa-Walton Transportation Planning Organization	197	861	2,206	4,147	6,461	9,058
Palm Beach MPO	307	1,749	5,582	13,214	25,970	45,308
Pasco County MPO	126	462	1,315	2,924	5,492	9,003
Polk County Transportation Planning Organization	163	809	2,198	4,351	7,530	11,604
River to Sea Transportation Planning Organization	142	735	2,041	4,321	7,706	12,067
Sarasota-Manatee MPO	223	1,170	3,322	7,201	13,062	20,904
Space Coast Transportation Planning Organization	152	670	1,875	3,964	7,214	11,819
St. Lucie Transportation Planning Organization	125	590	1,505	2,998	4,829	7,197

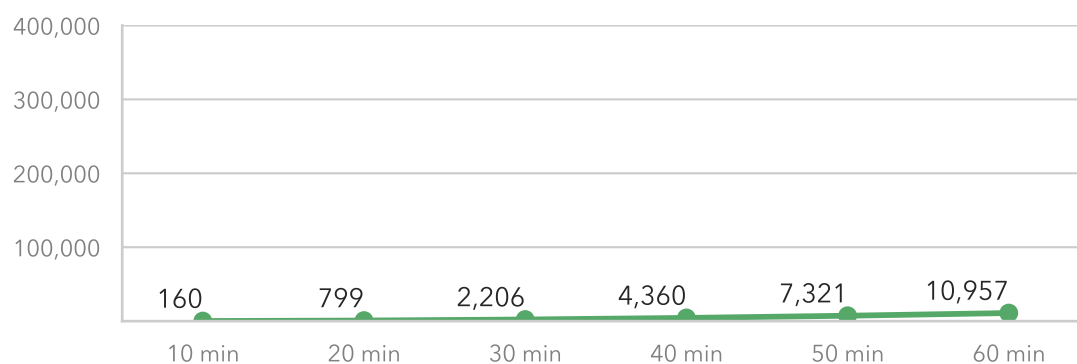
Bay County Transportation Planning Organization

Job Accessibility Results—Transit, 2018

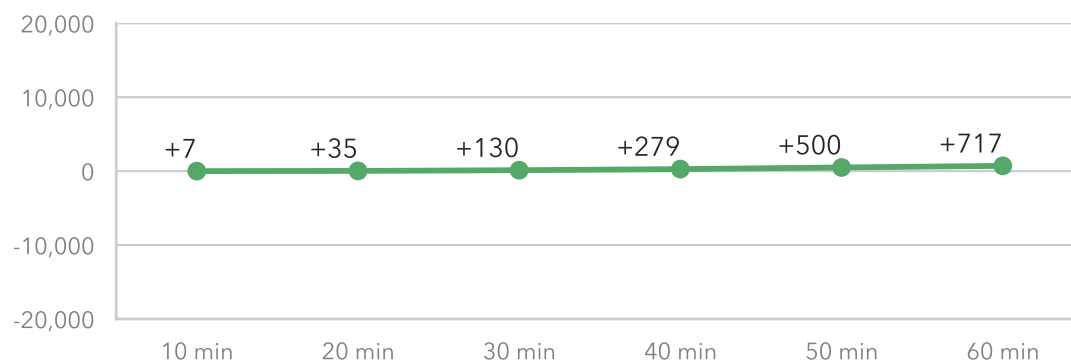
1-Year Change in Weighted Accessibility	+6.22%
Total Jobs	75,869
Average Job Density (per mi ²)	190
Total Workers	71,688
Average Worker Density (per mi ²)	180

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)*



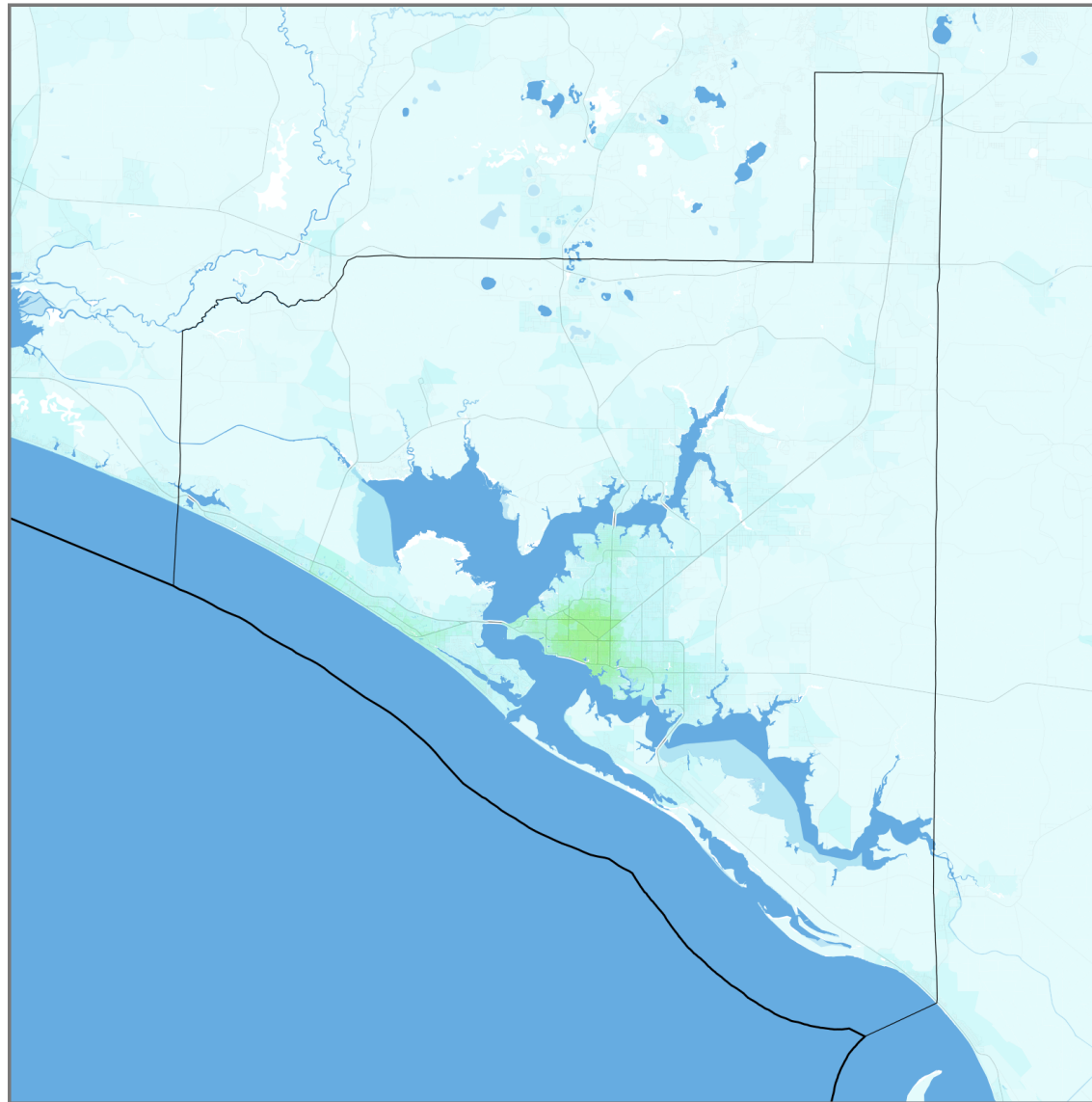
*Beginning in data year 2018, federal jobs and federal workers are not included due to changes in underlying datasets from the U.S. Census Bureau. As a result, comparisons between 2017 and 2018 accessibility results are less accurate in areas where federal employment is a greater share of total employment.

Transit Schedules Included

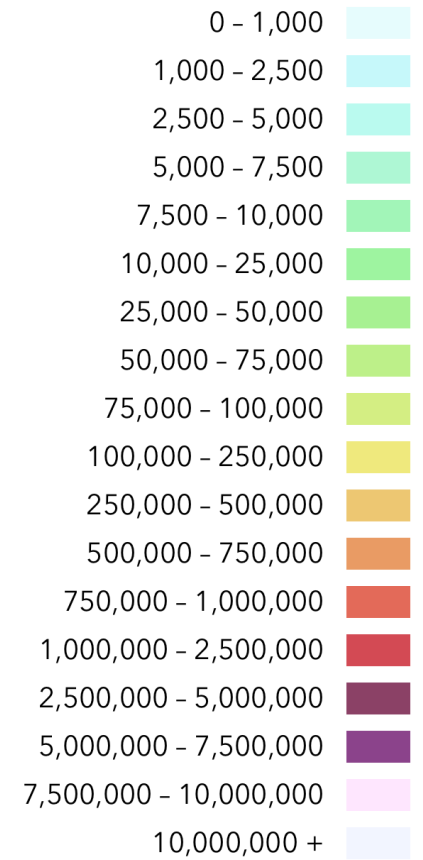
Agency	Dates
Bay Town Trolley	September 1, 2016 – January 1, 2020

Bay County Transportation Planning Organization

8



Jobs within 30 minutes
(Transit, AM peak)



State border —
MPO boundary —

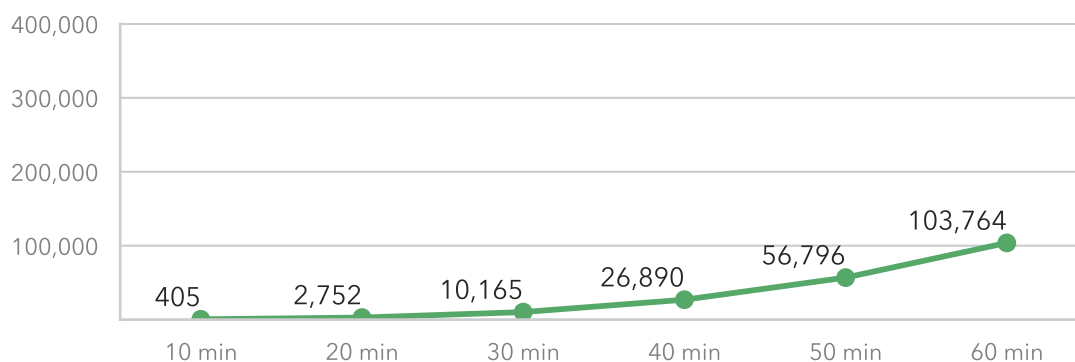
Broward MPO

Job Accessibility Results—Transit, 2018

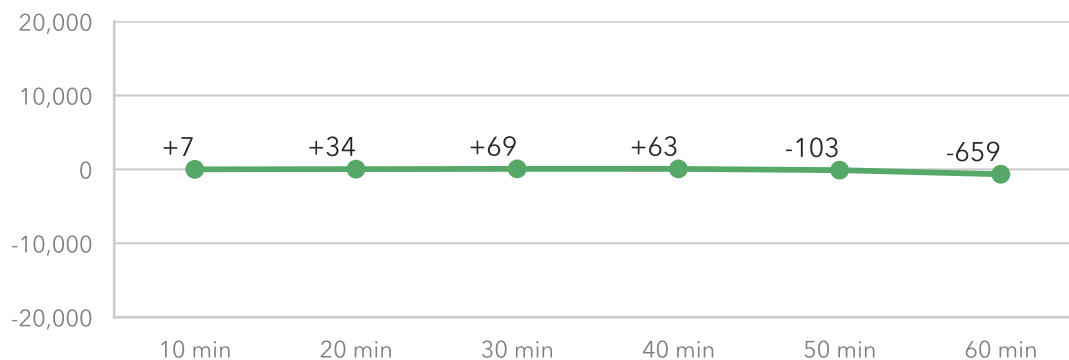
1-Year Change in Weighted Accessibility	+0.13%
Total Jobs	811,917
Average Job Density (per mi ²)	1716
Total Workers	830,985
Average Worker Density (per mi ²)	1756

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)*



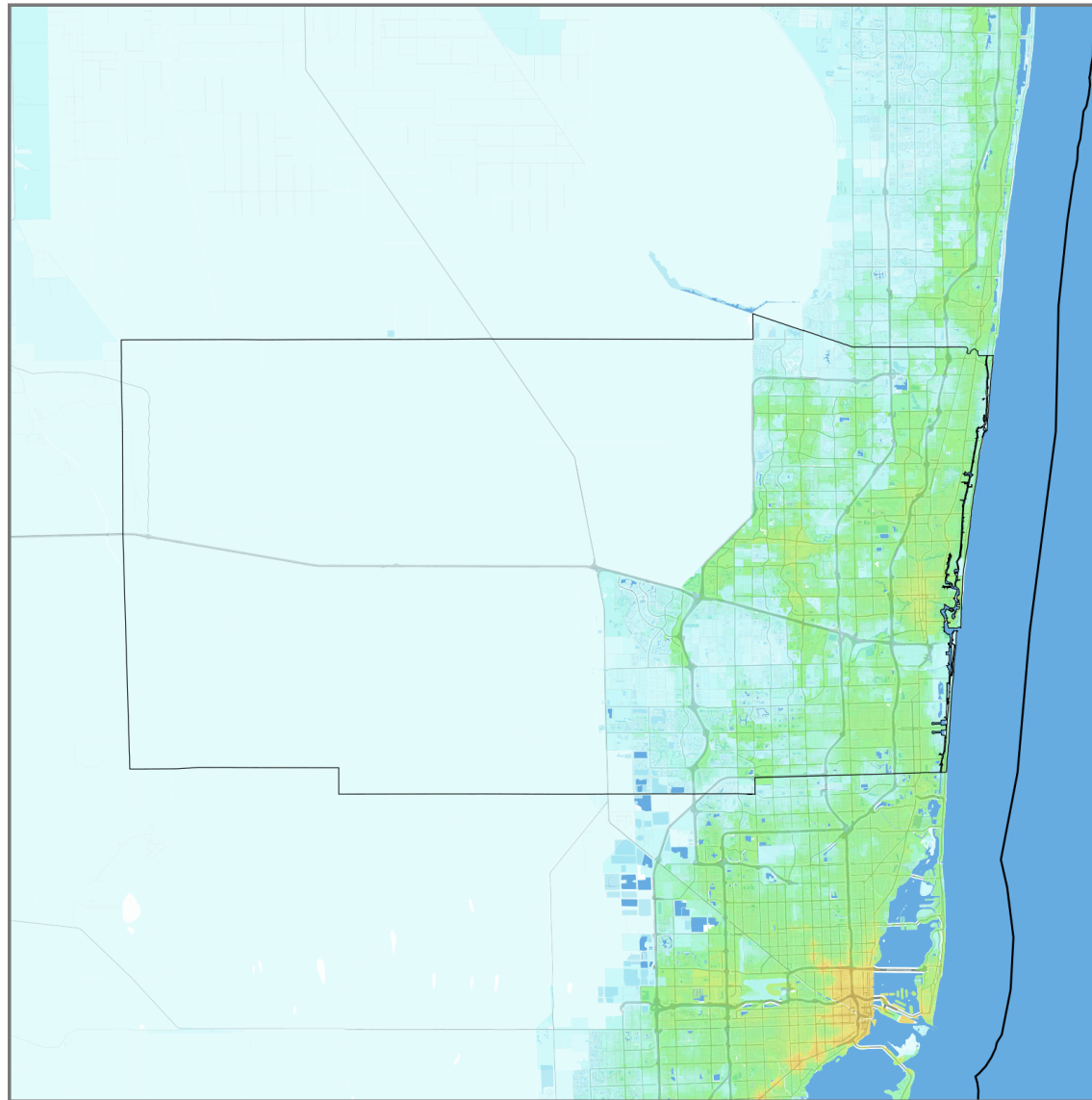
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Transit Schedules Included

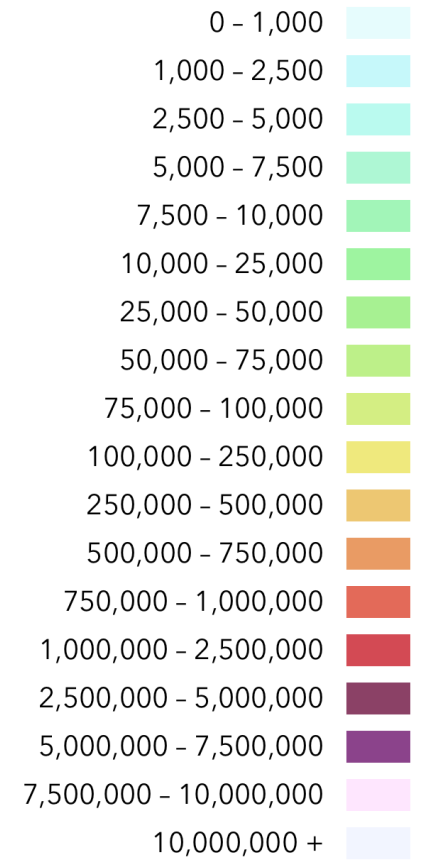
Agency	Dates
Broward County Transit	January 14, 2018 - September 8, 2018
Miami-Dade Transit	March 11, 2018 - July 28, 2018
Palm Tran	December 13, 2017 - May 12, 2018
SFRTA/Tri-Rail	April 20, 2012 - December 31, 2024

Broward MPO

11



Jobs within 30 minutes
(Transit, AM peak)



State border

MPO boundary

Capital Region Transportation Planning Agency

Job Accessibility Results—Transit, 2018

1-Year Change in Weighted Accessibility **+1.19%**

Total Jobs **174,899**

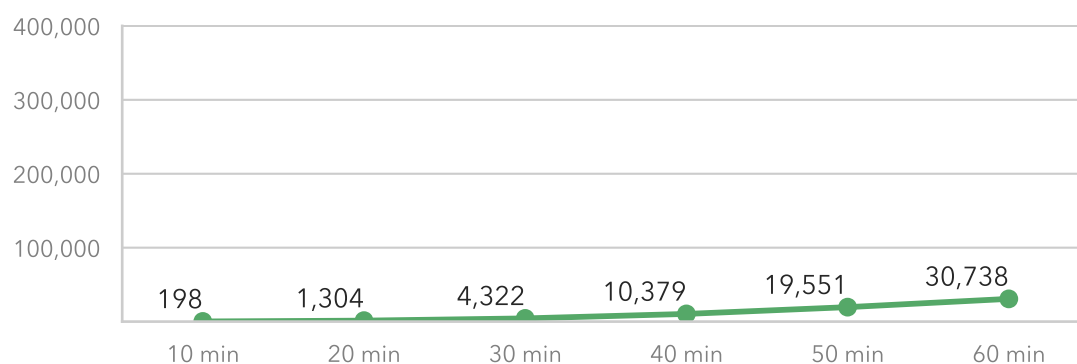
Average Job Density (per mi²) **184**

Total Workers **154,416**

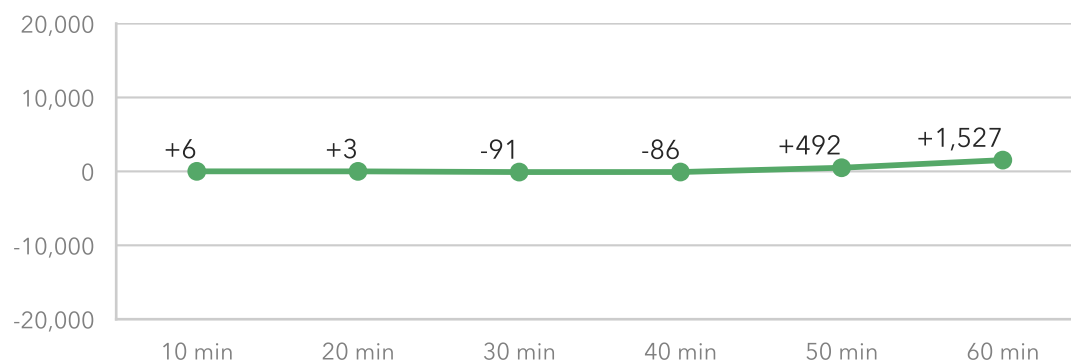
Average Worker Density (per mi²) **162**

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)*



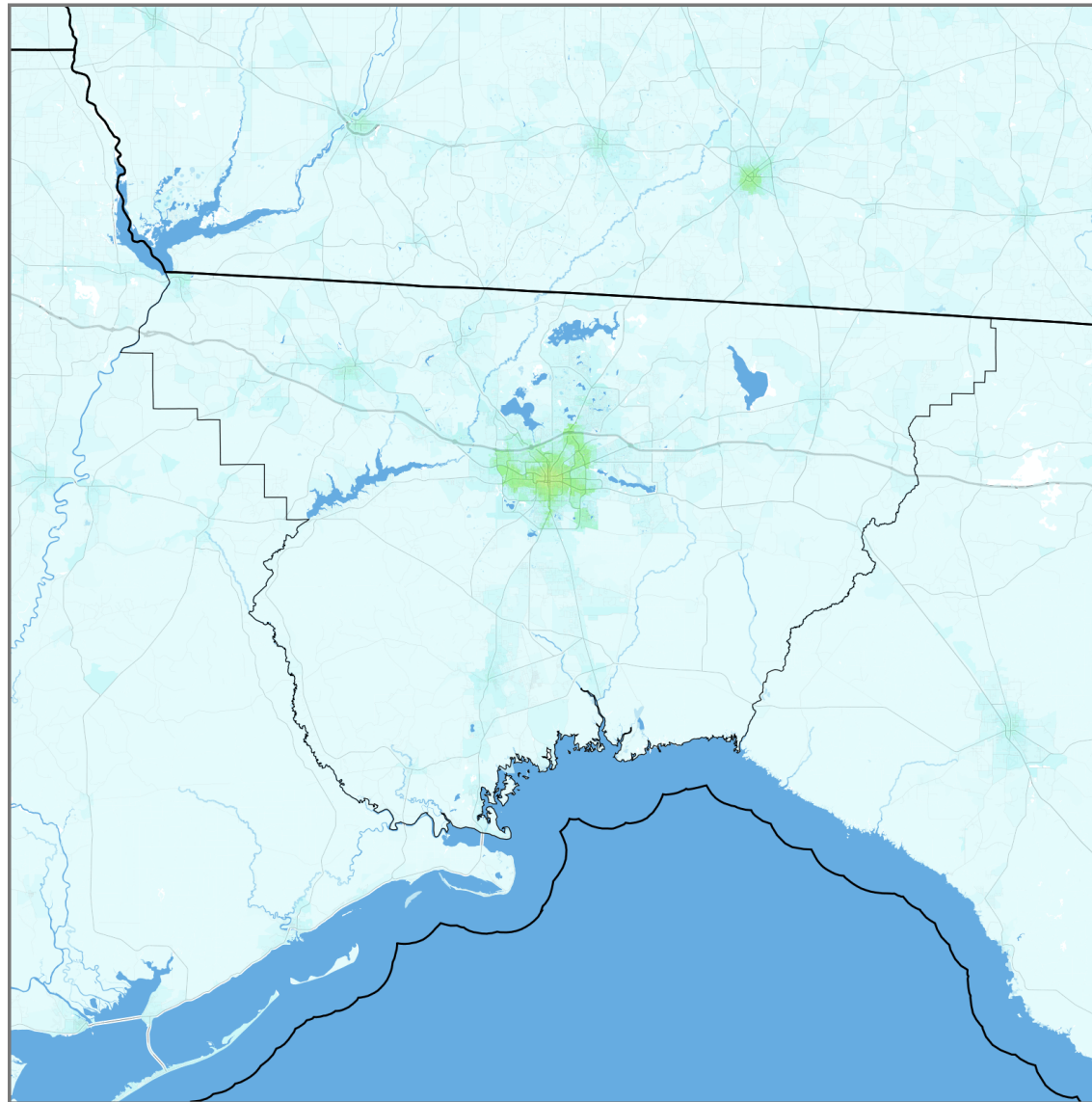
*Beginning in data year 2018, federal jobs and federal workers are not included due to changes in underlying datasets from the U.S. Census Bureau. As a result, comparisons between 2017 and 2018 accessibility results are less accurate in areas where federal employment is a greater share of total employment.

Transit Schedules Included

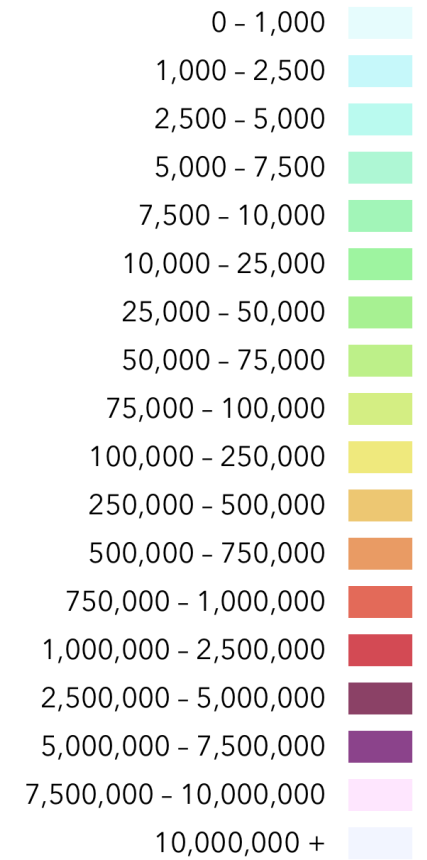
Agency	Dates
StarMetro	March 4, 2017 - January 5, 2020

Capital Region Transportation Planning Agency

14



Jobs within 30 minutes
(Transit, AM peak)



State border —
MPO boundary —

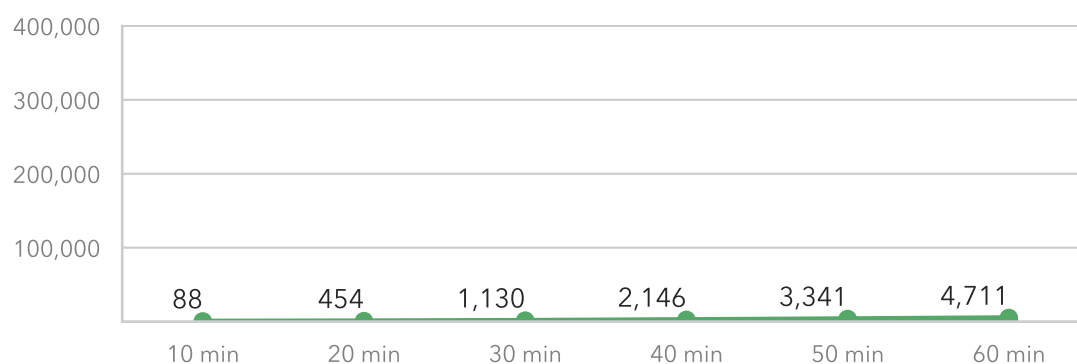
Charlotte-Punta Gorda MPO

Job Accessibility Results—Transit, 2018

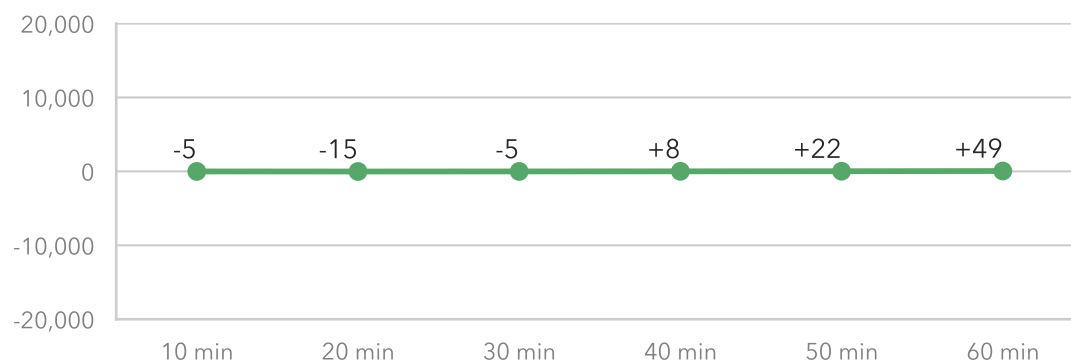
1-Year Change in Weighted Accessibility	-0.93%
Total Jobs	47,823
Average Job Density (per mi ²)	173
Total Workers	55,411
Average Worker Density (per mi ²)	200

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)*

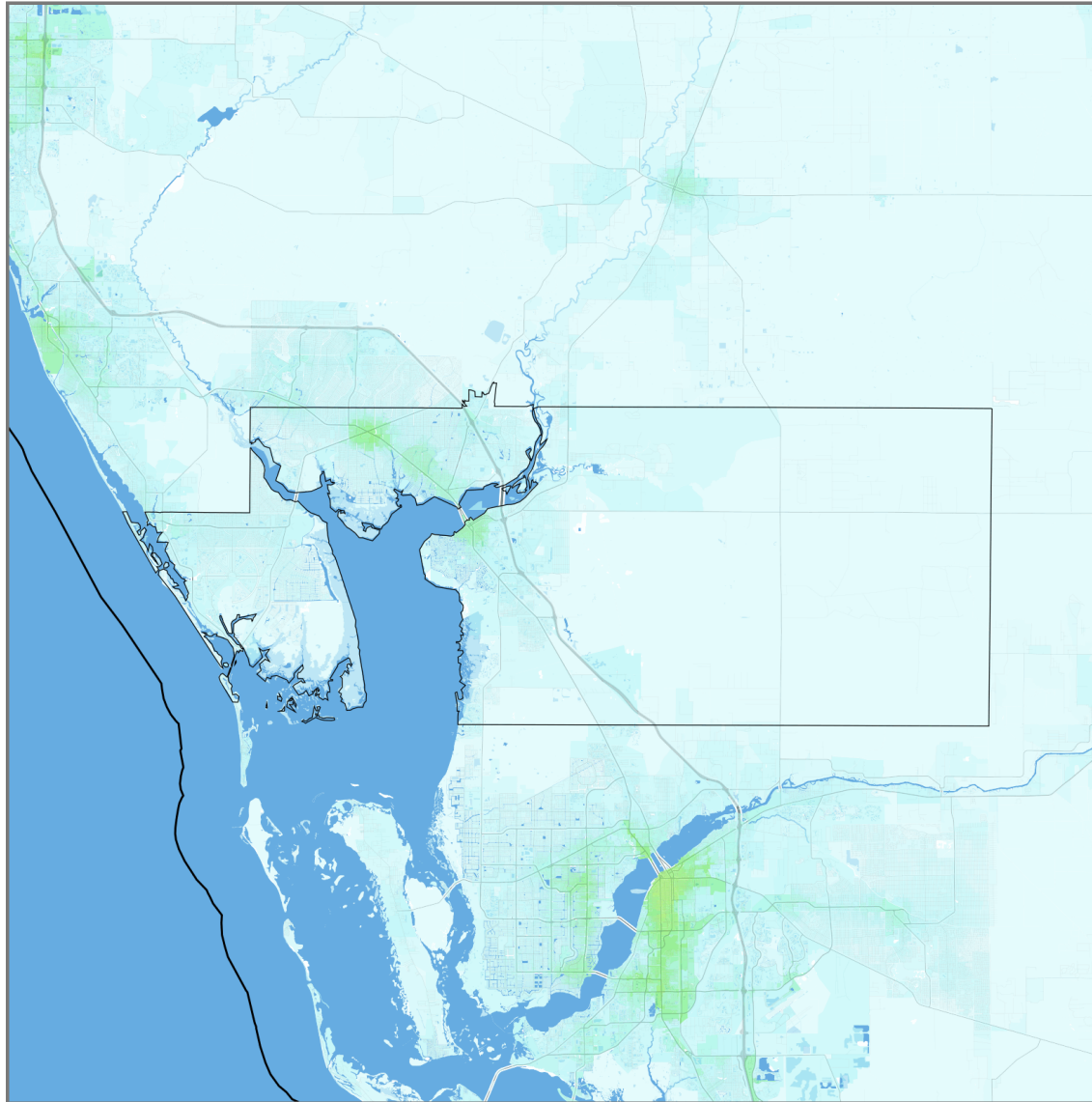


*Beginning in data year 2018, federal jobs and federal workers are not included due to changes in underlying datasets from the U.S. Census Bureau. As a result, comparisons between 2017 and 2018 accessibility results are less accurate in areas where federal employment is a greater share of total employment.

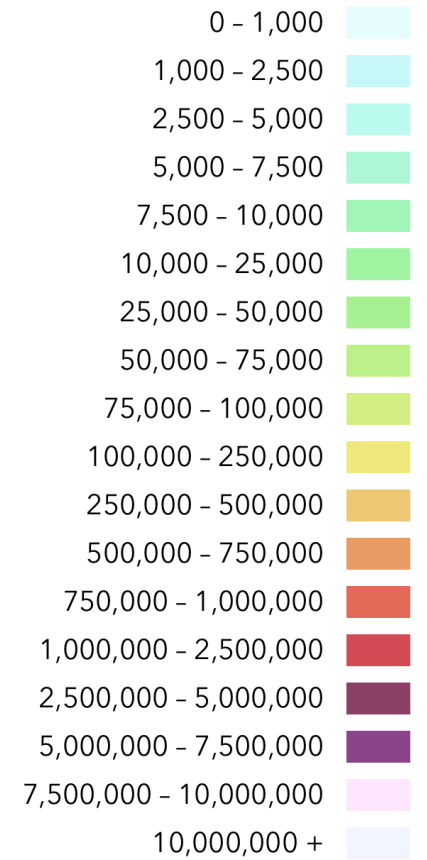
Transit Schedules Included

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

Charlotte-Punta Gorda MPO



Jobs within 30 minutes
(Transit, AM peak)



State border

MPO boundary

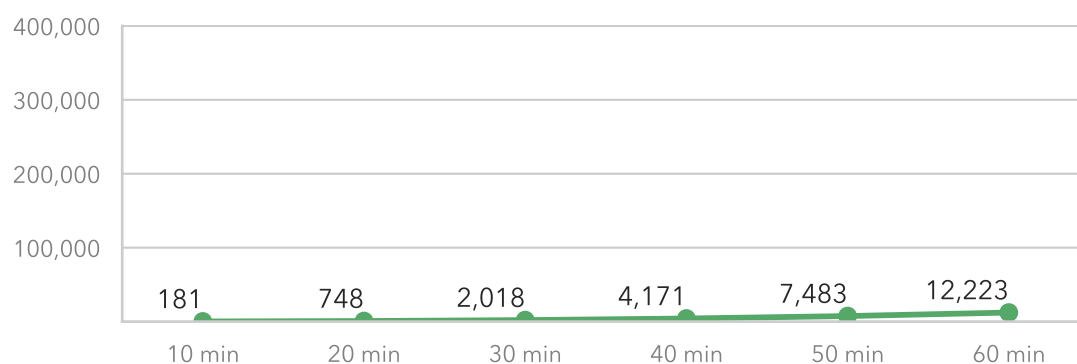
Collier MPO

Job Accessibility Results—Transit, 2018

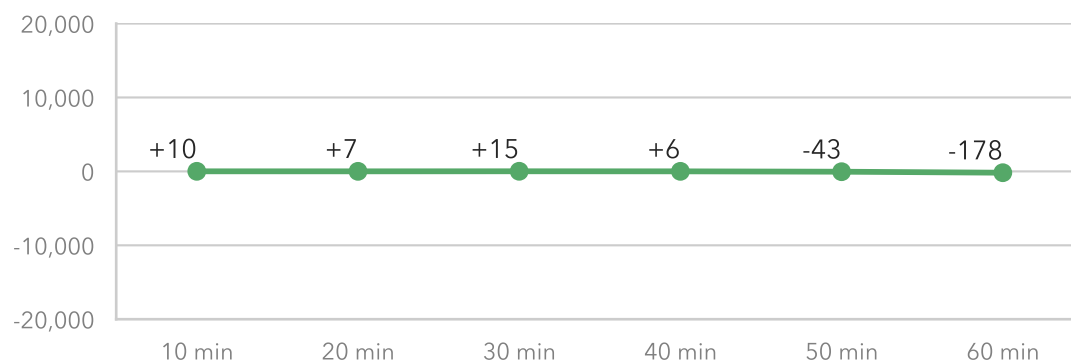
1-Year Change in Weighted Accessibility	+0.45%
Total Jobs	137,041
Average Job Density (per mi ²)	171
Total Workers	136,608
Average Worker Density (per mi ²)	171

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)*



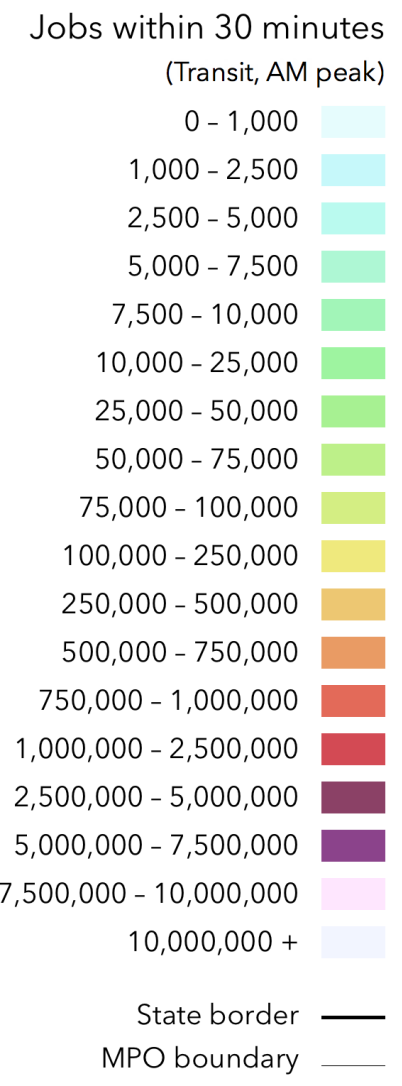
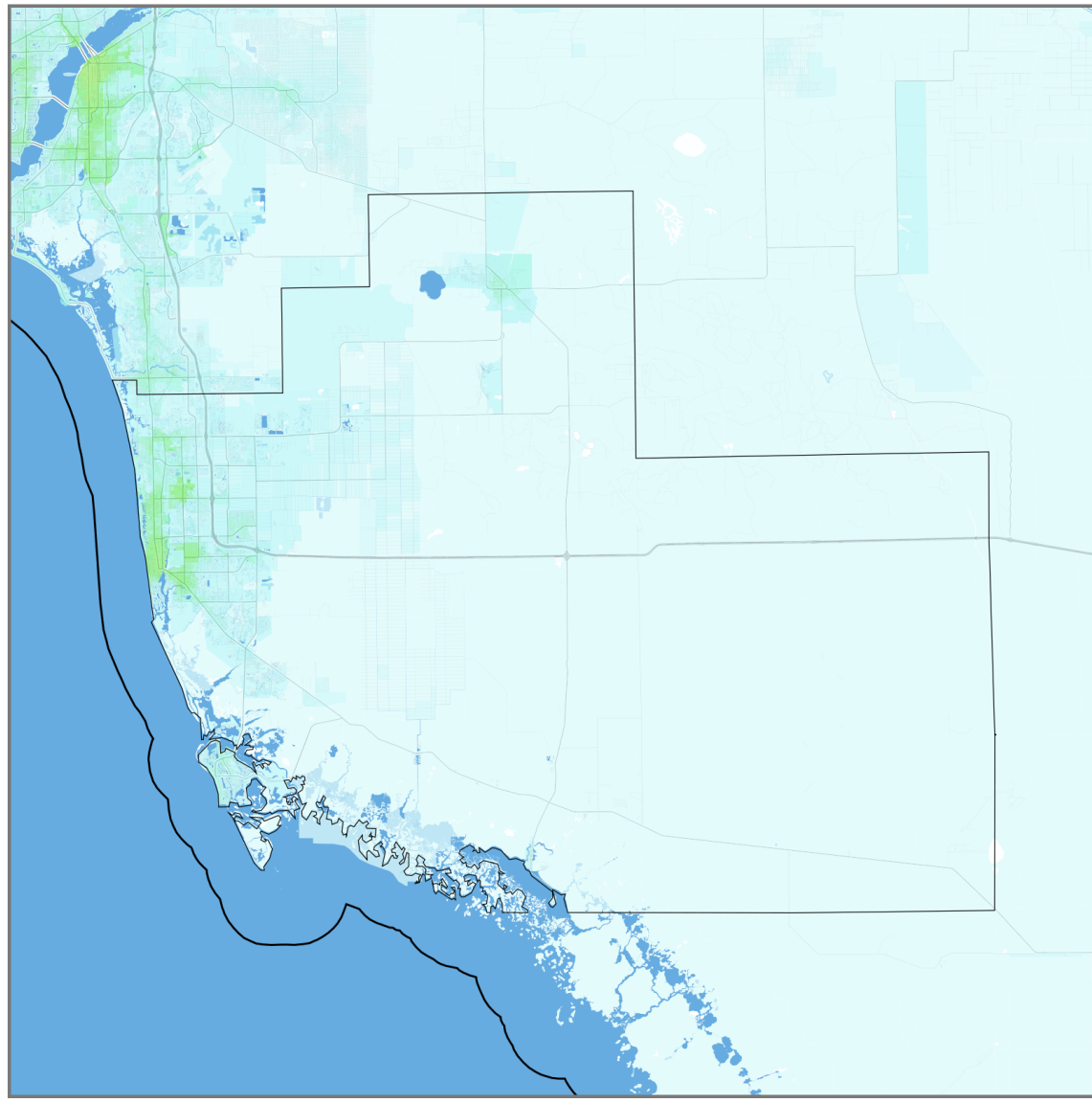
*Beginning in data year 2018, federal jobs and federal workers are not included due to changes in underlying datasets from the U.S. Census Bureau. As a result, comparisons between 2017 and 2018 accessibility results are less accurate in areas where federal employment is a greater share of total employment.

Transit Schedules Included

Agency	Dates
Collier Area Transit - CAT	April 5, 2017 - December 31, 2017
Lee County Transit	February 5, 2018 - April 11, 2018

Collier MPO

20



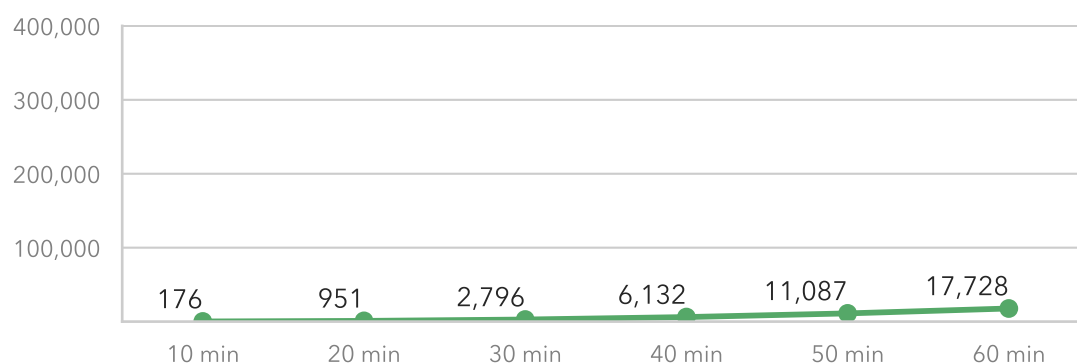
Florida-Alabama Transportation Planning Organization

Job Accessibility Results—Transit, 2018

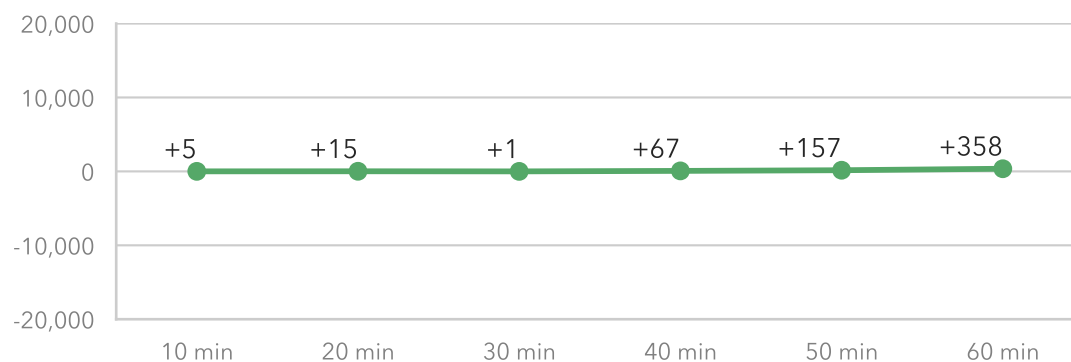
1-Year Change in Weighted Accessibility	+1.33%
Total Jobs	182,545
Average Job Density (per mi ²)	395
Total Workers	176,618
Average Worker Density (per mi ²)	382

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)*

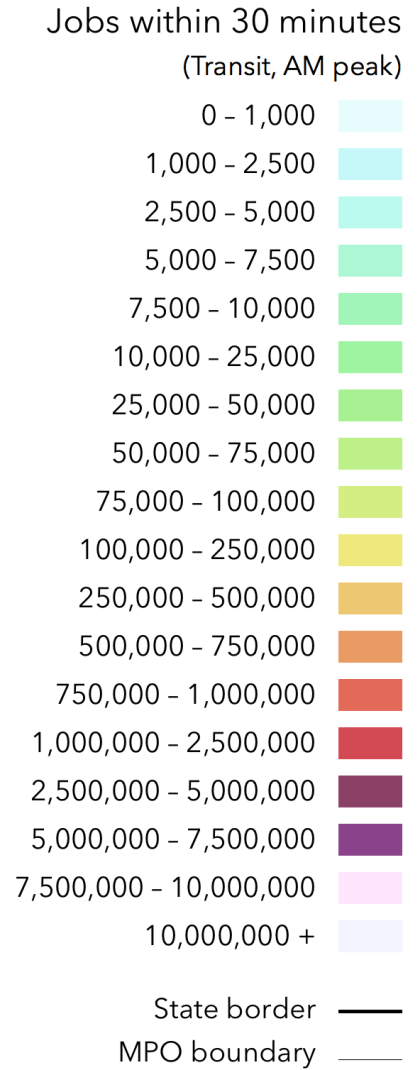
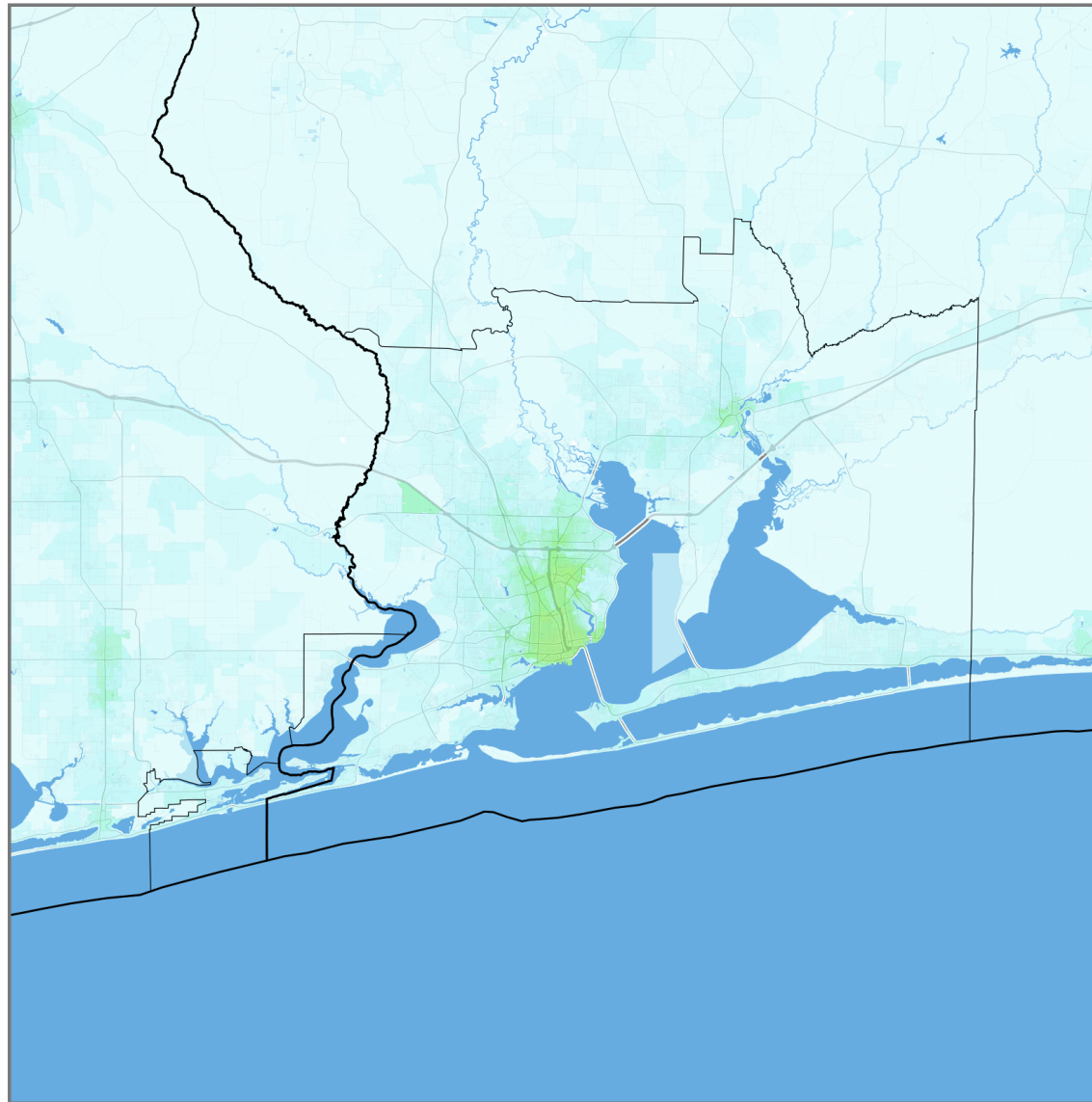


*Beginning in data year 2018, federal jobs and federal workers are not included due to changes in underlying datasets from the U.S. Census Bureau. As a result, comparisons between 2017 and 2018 accessibility results are less accurate in areas where federal employment is a greater share of total employment.

Transit Schedules Included

Agency	Dates
Escambia County Area Transit	August 1, 2015 – January 1, 2020

Florida-Alabama Transportation Planning Organization



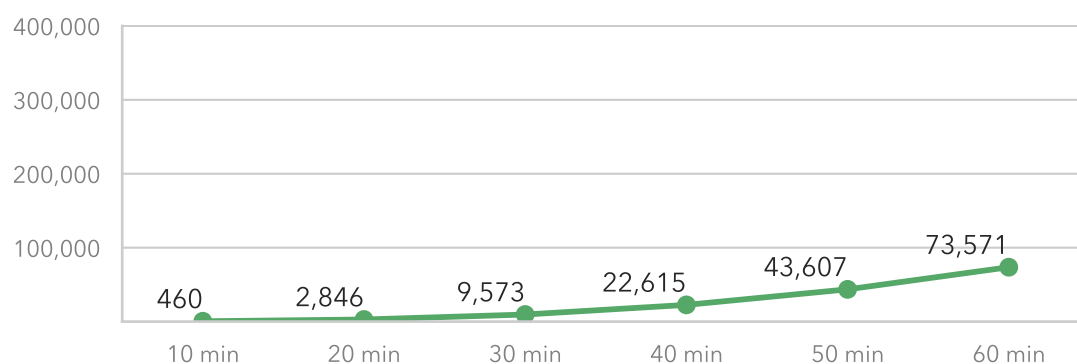
Forward Pinellas

Job Accessibility Results—Transit, 2018

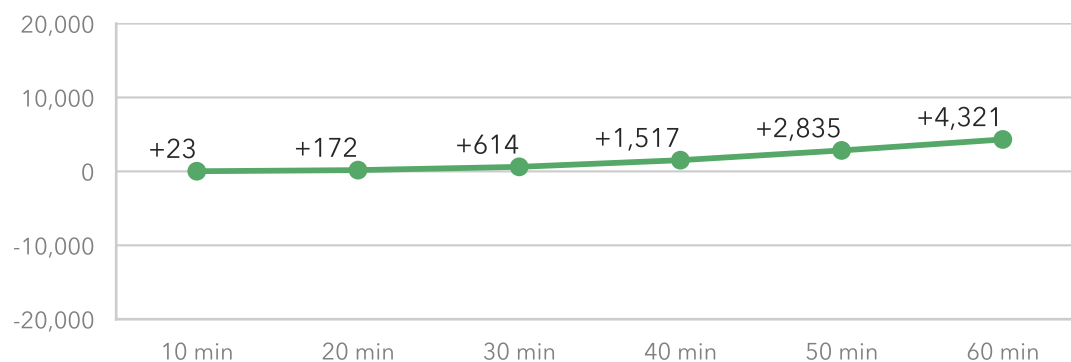
1-Year Change in Weighted Accessibility	+6.66%
Total Jobs	432,224
Average Job Density (per mi ²)	3850
Total Workers	406,453
Average Worker Density (per mi ²)	3621

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)*

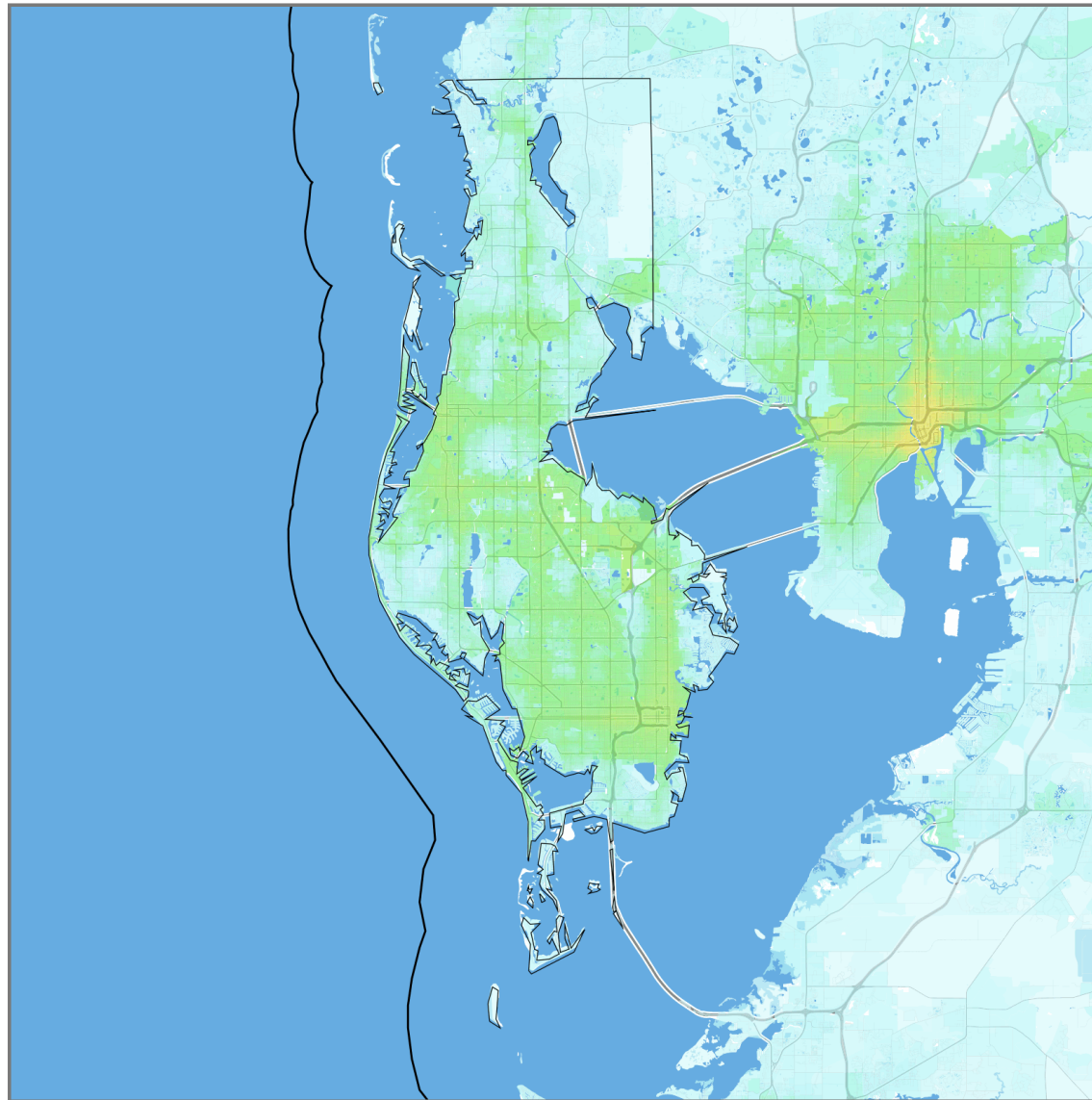


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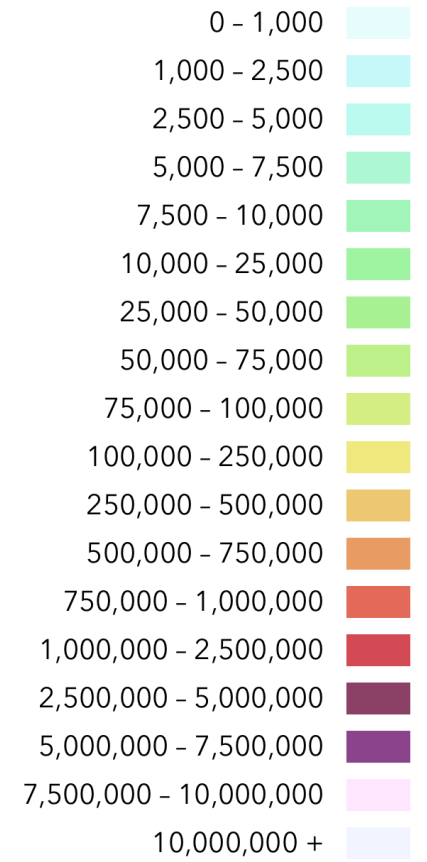
Transit Schedules Included

Agency	Dates
Manatee County Area Transit	April 15, 2017 - January 1, 2020
Pasco County Public Transportation	December 18, 2017 - January 1, 2020
Pinellas Suncoast Transit Authority	October 1, 2017 - June 2, 2018

Forward Pinellas



Jobs within 30 minutes
(Transit, AM peak)



State border

MPO boundary

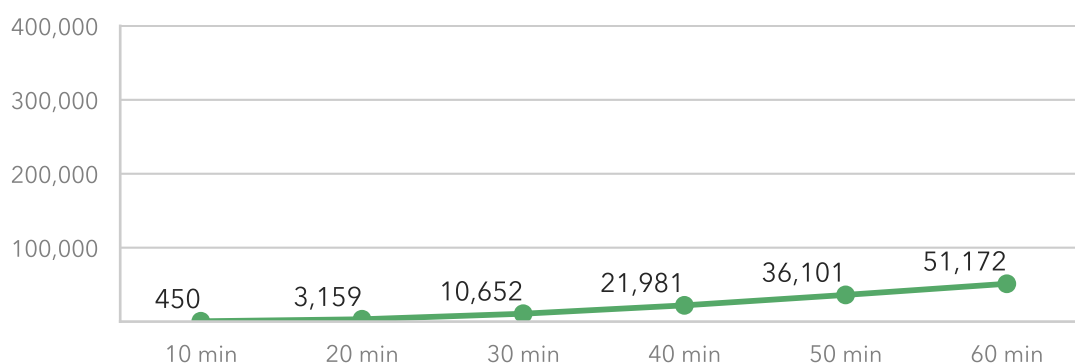
Gainesville MTPO

Job Accessibility Results—Transit, 2018

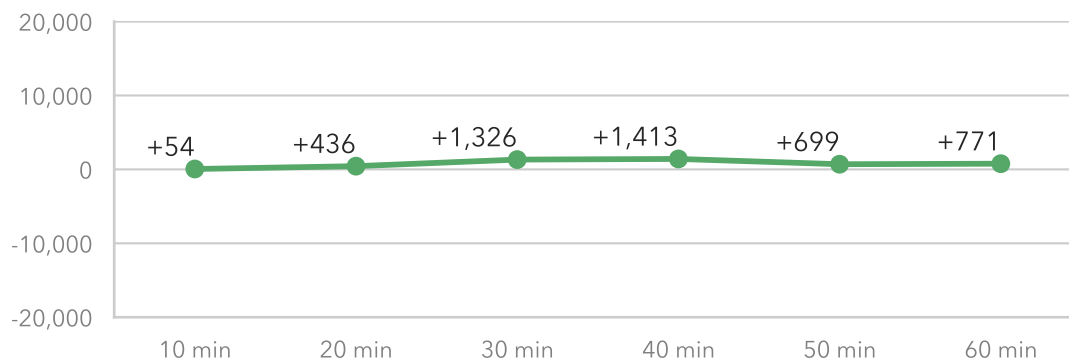
1-Year Change in Weighted Accessibility	+8.25%
Total Jobs	107,245
Average Job Density (per mi ²)	1475
Total Workers	78,370
Average Worker Density (per mi ²)	1078

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)*

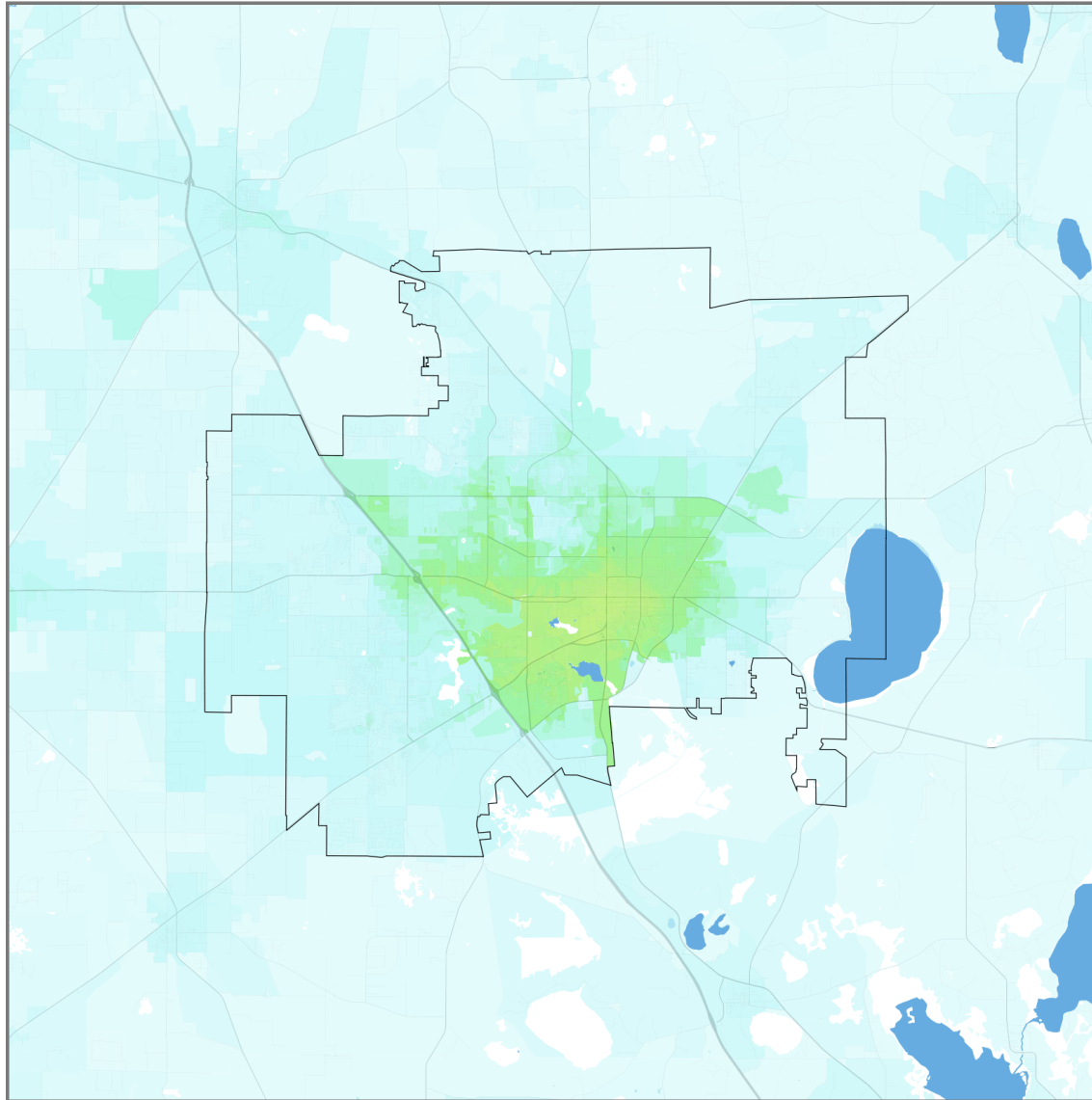


*Beginning in data year 2018, federal jobs and federal workers are not included due to changes in underlying datasets from the U.S. Census Bureau. As a result, comparisons between 2017 and 2018 accessibility results are less accurate in areas where federal employment is a greater share of total employment.

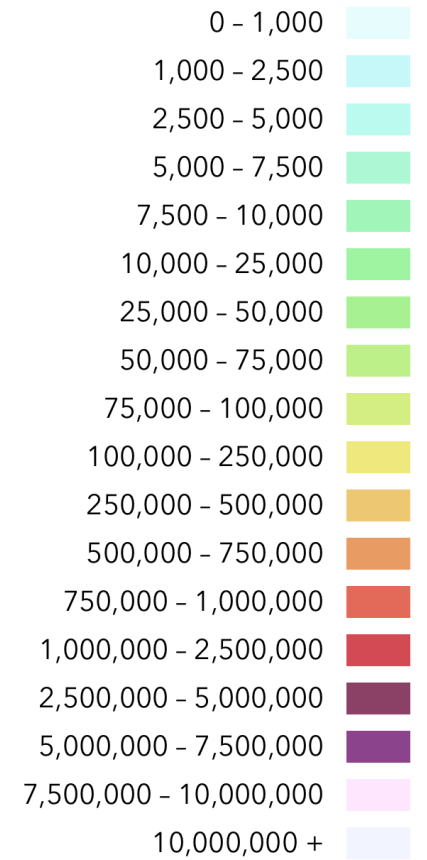
Transit Schedules Included

Agency	Dates
Regional Transit System	August 14, 2017 – August 19, 2018

Gainesville MTP0



Jobs within 30 minutes
(Transit, AM peak)



State border —
MPO boundary —

Heartland Regional TPO

Job Accessibility Results—Transit, 2018

1-Year Change in Weighted Accessibility **-3.70%**

Total Jobs **64,634**

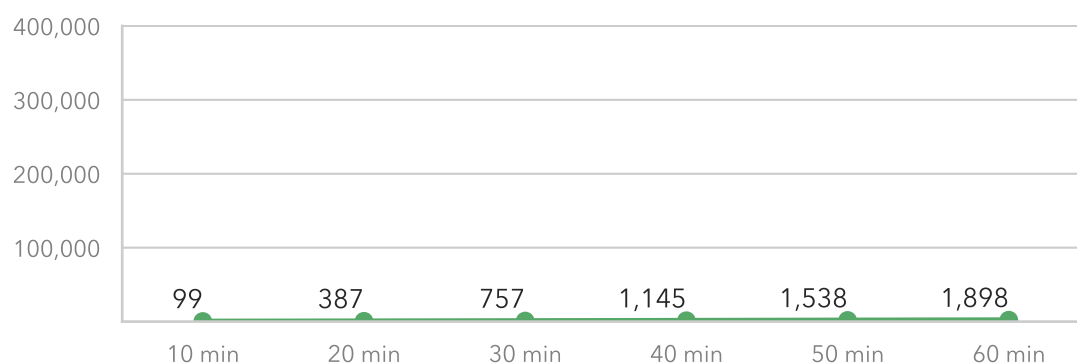
Average Job Density (per mi²) **33**

Total Workers **81,776**

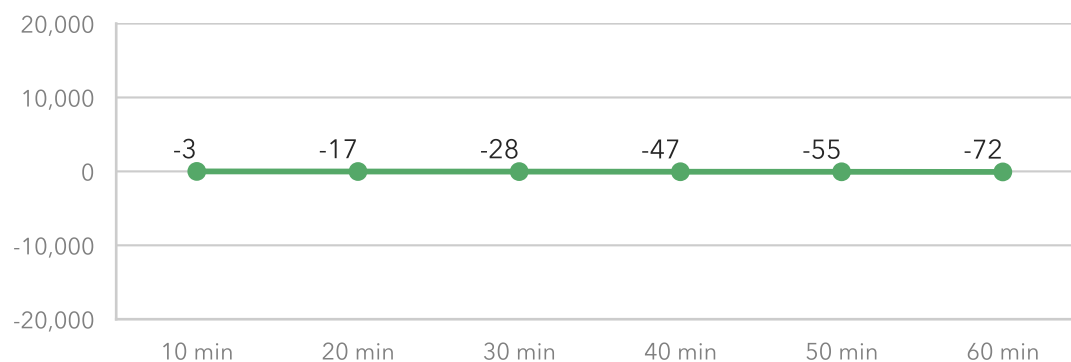
Average Worker Density (per mi²) **41**

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)*



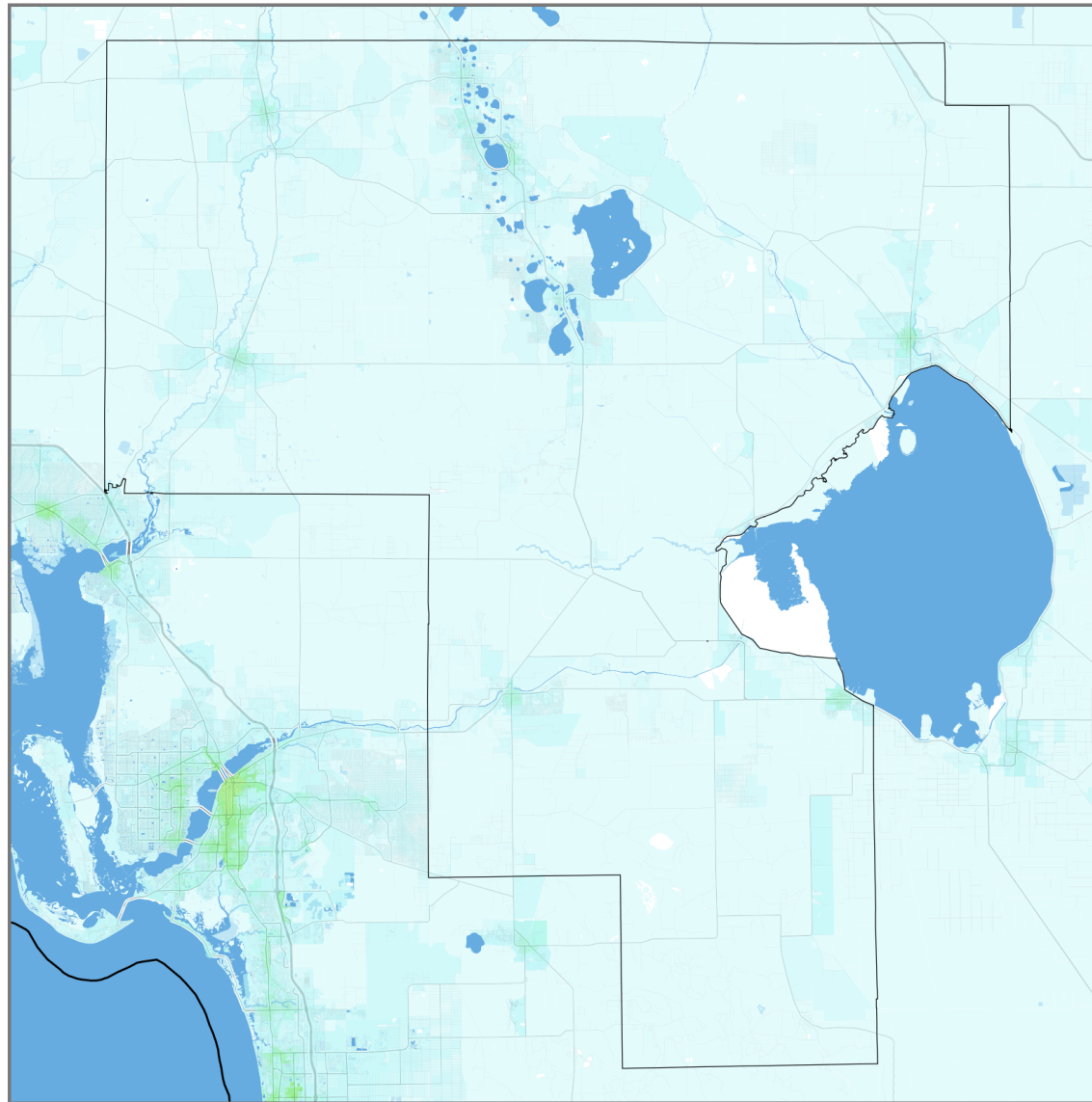
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Transit Schedules Included

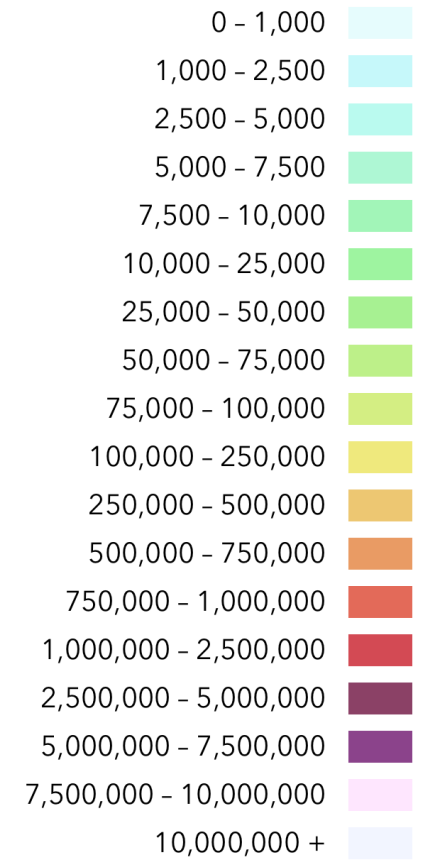
No transit schedule information was available for agencies near this MPO.

Heartland Regional TPO

32



Jobs within 30 minutes
(Transit, AM peak)



State border —
MPO boundary —

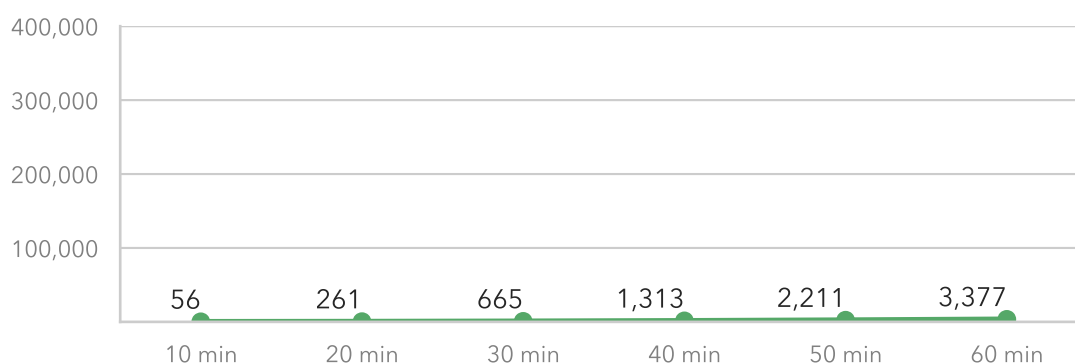
Hernando/Citrus MPO

Job Accessibility Results—Transit, 2018

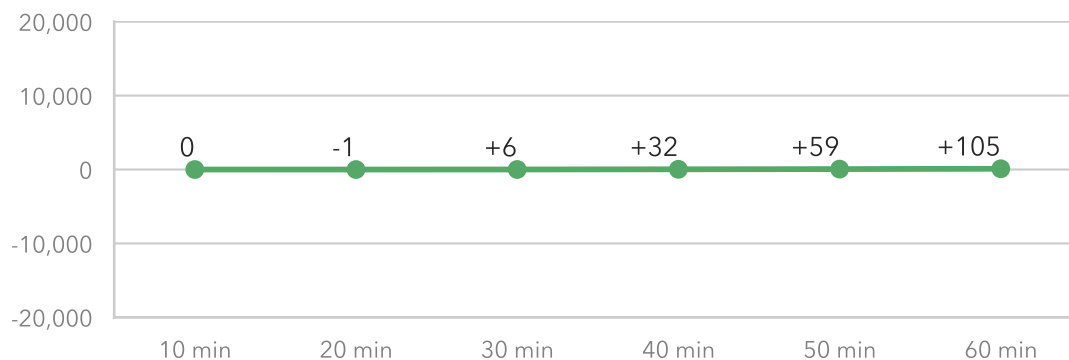
1-Year Change in Weighted Accessibility	+1.54%
Total Jobs	75,917
Average Job Density (per mi ²)	176
Total Workers	102,584
Average Worker Density (per mi ²)	237

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)*



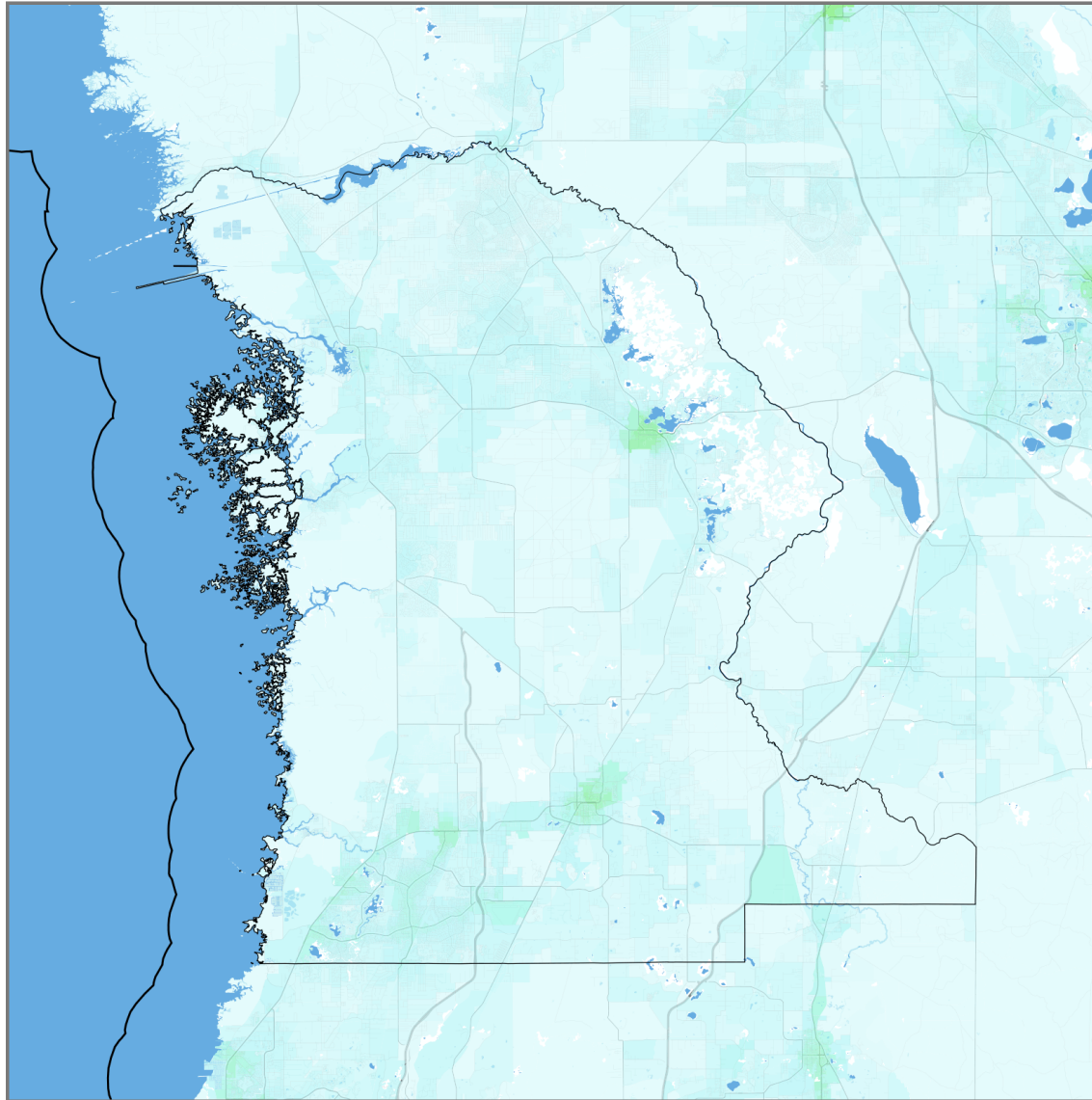
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Transit Schedules Included

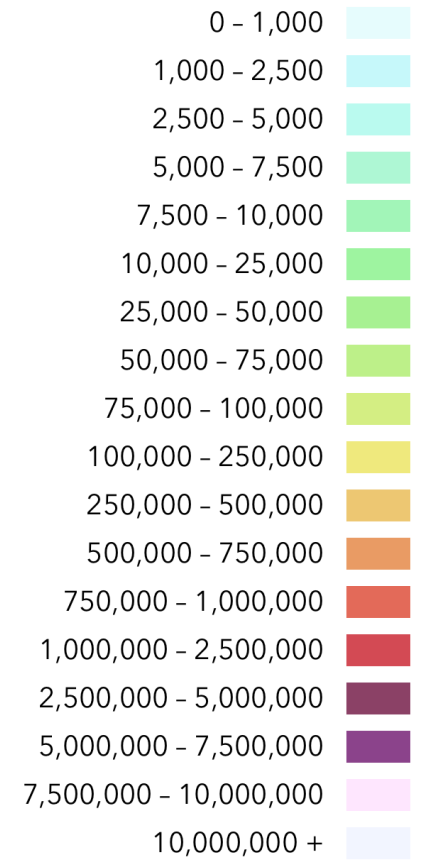
Agency	Dates
Orange Line Bus (Citrus County Transit)	January 1, 2015 – July 1, 2016
The Hernando Express	January 1, 2015 – January 1, 2017

Hernando/Citrus MPO

35



Jobs within 30 minutes
(Transit, AM peak)



State border

MPO boundary

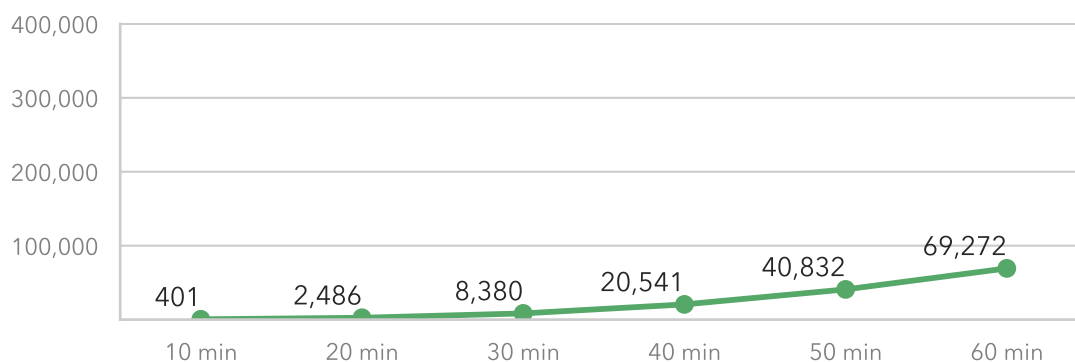
Hillsborough MPO

Job Accessibility Results—Transit, 2018

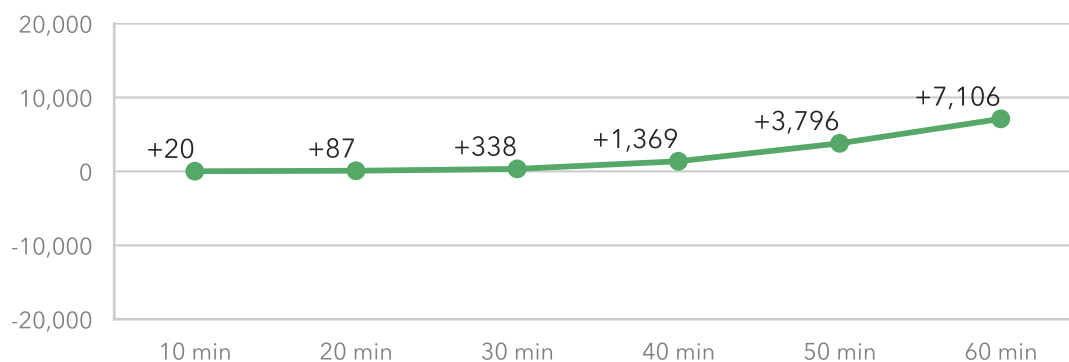
1-Year Change in Weighted Accessibility	+7.65%
Total Jobs	696,910
Average Job Density (per mi ²)	1625
Total Workers	600,815
Average Worker Density (per mi ²)	1401

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)*



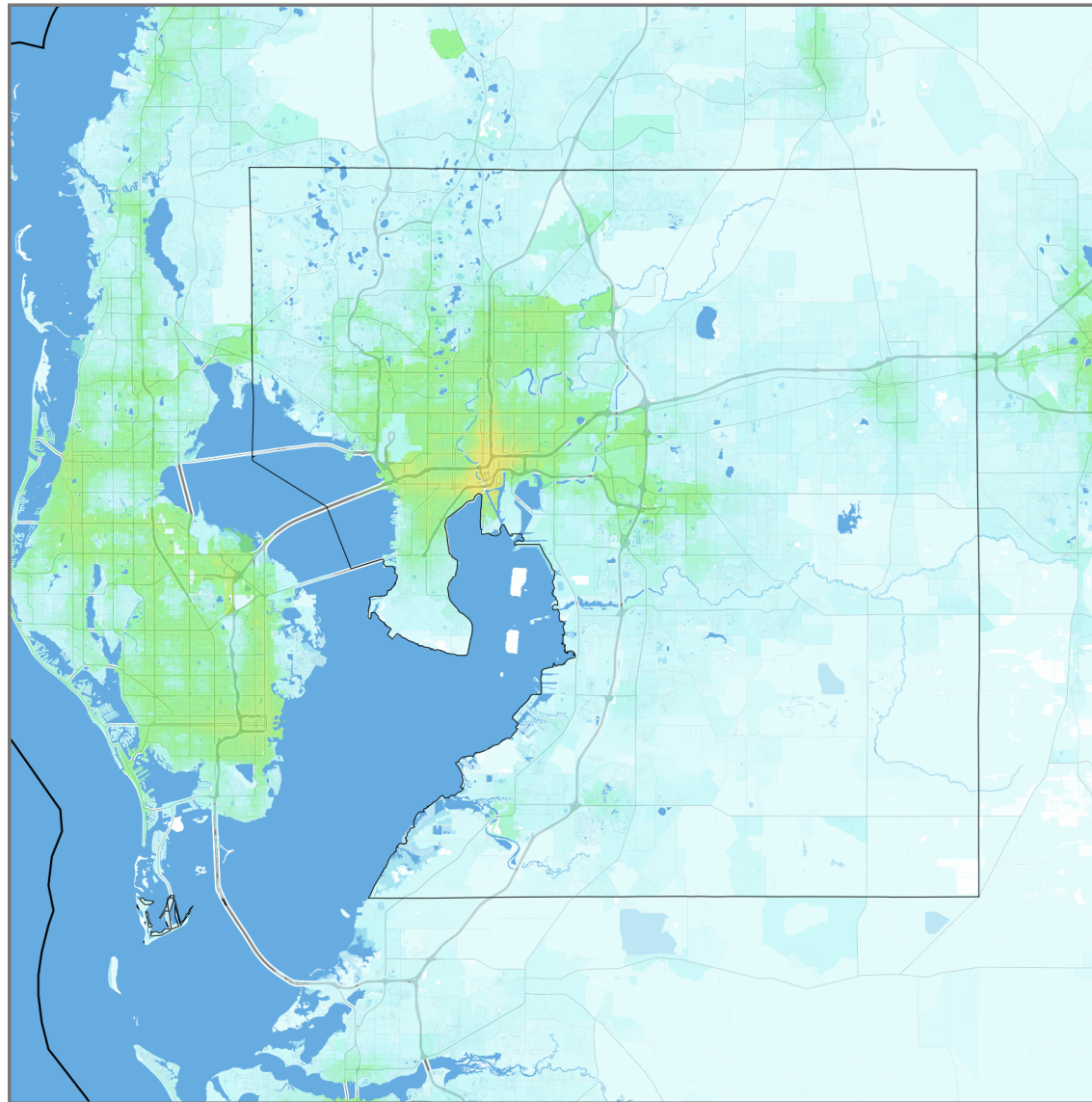
*Beginning in data year 2018, federal jobs and federal workers are not included due to changes in underlying datasets from the U.S. Census Bureau. As a result, comparisons between 2017 and 2018 accessibility results are less accurate in areas where federal employment is a greater share of total employment.

Transit Schedules Included

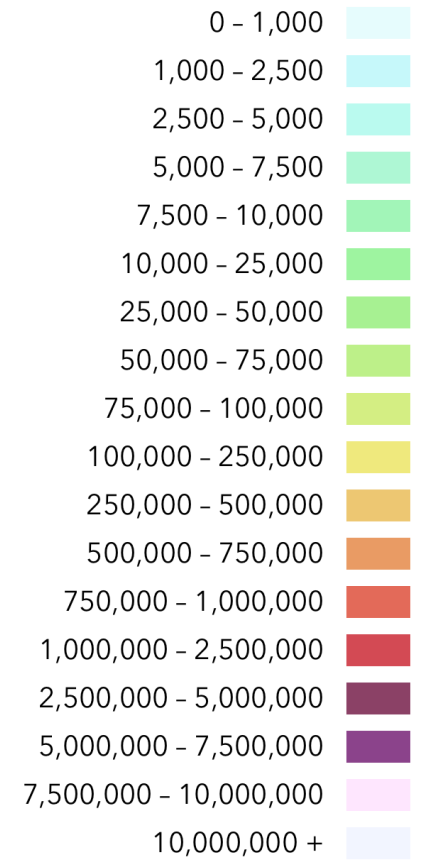
Agency	Dates
Hillsborough Area Regional Transit	October 8, 2017 - June 30, 2018
Pinellas Suncoast Transit Authority	October 1, 2017 - June 2, 2018
USF Bull Runner	January 1, 2015 - December 31, 2020

Hillsborough MPO

38



Jobs within 30 minutes
(Transit, AM peak)



State border

MPO boundary

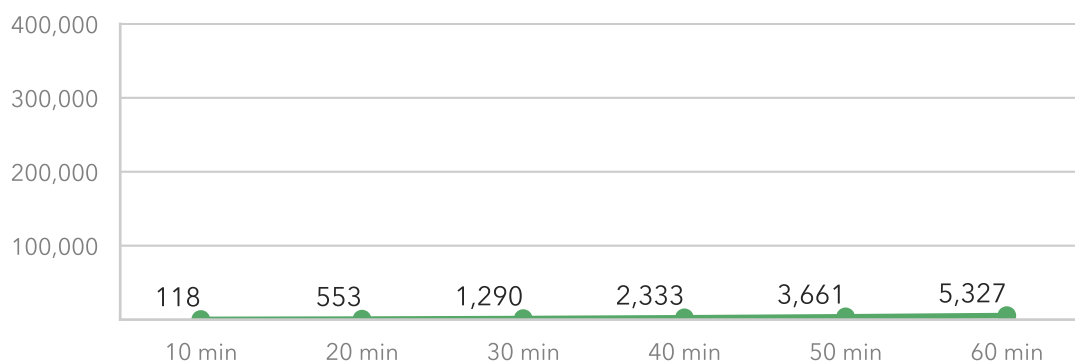
Indian River County MPO

Job Accessibility Results—Transit, 2018

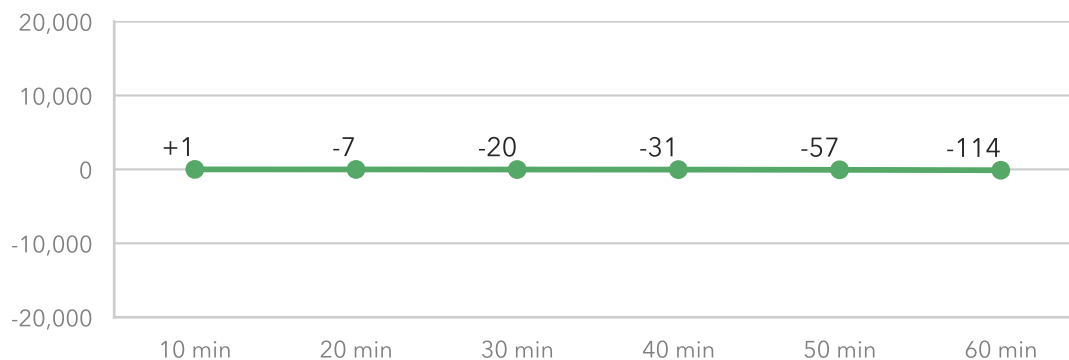
1-Year Change in Weighted Accessibility	-1.28%
Total Jobs	46,328
Average Job Density (per mi ²)	685
Total Workers	53,307
Average Worker Density (per mi ²)	789

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)*

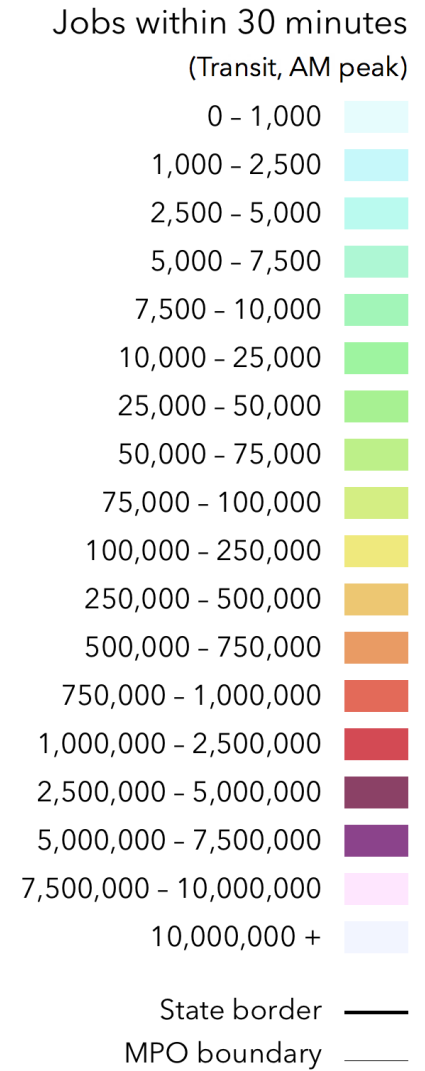
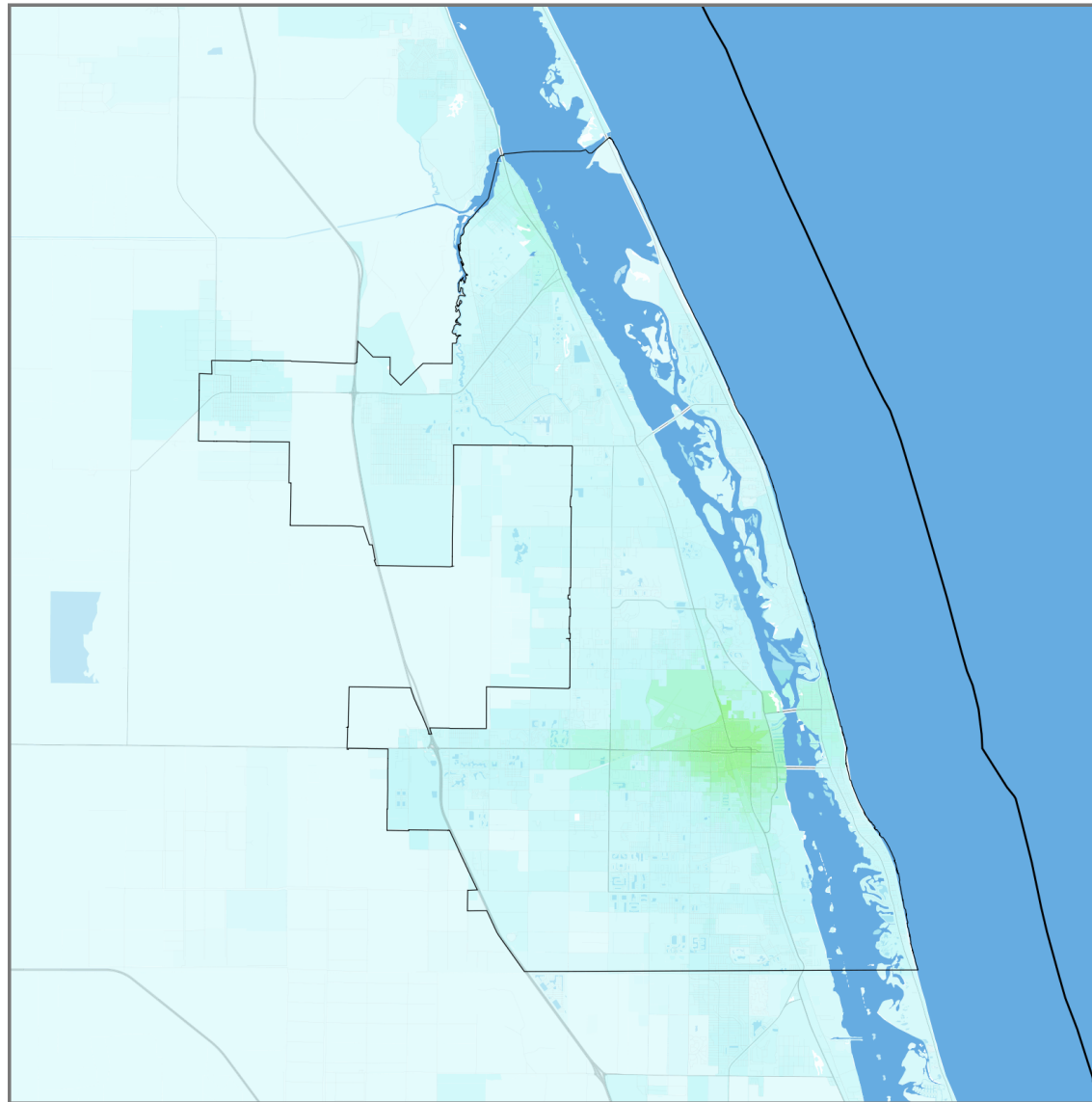


*Beginning in data year 2018, federal jobs and federal workers are not included due to changes in underlying datasets from the U.S. Census Bureau. As a result, comparisons between 2017 and 2018 accessibility results are less accurate in areas where federal employment is a greater share of total employment.

Transit Schedules Included

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

Indian River County MPO



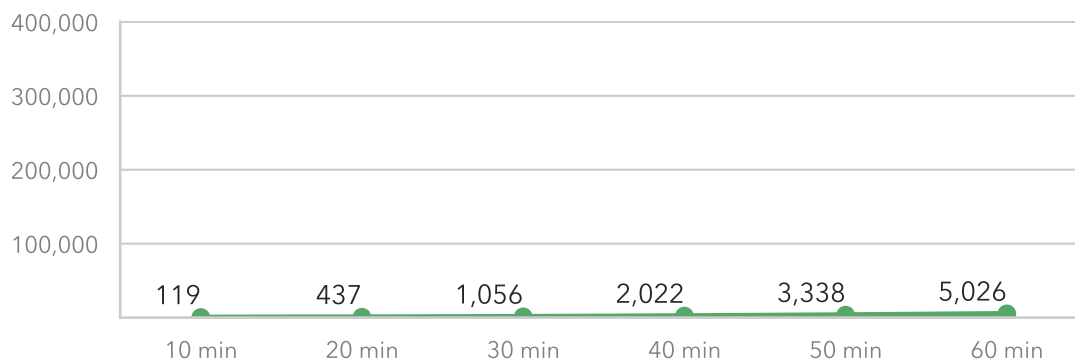
Lake-Sumter MPO

Job Accessibility Results—Transit, 2018

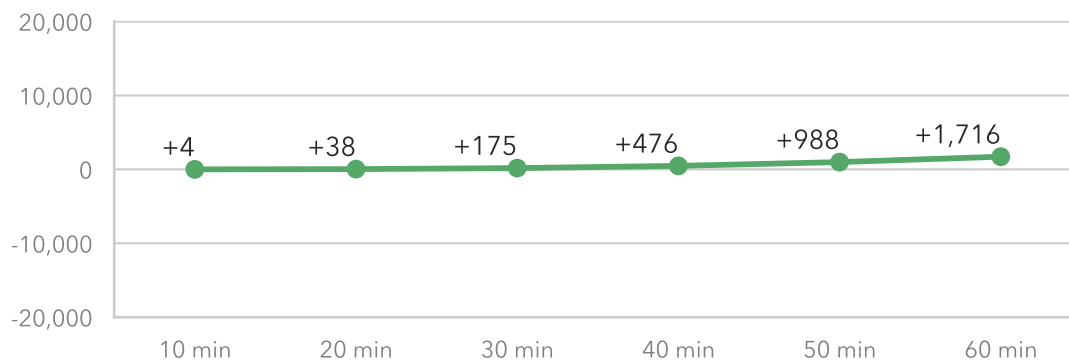
1-Year Change in Weighted Accessibility	+24.07%
Total Jobs	119,918
Average Job Density (per mi ²)	179
Total Workers	154,963
Average Worker Density (per mi ²)	232

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)*

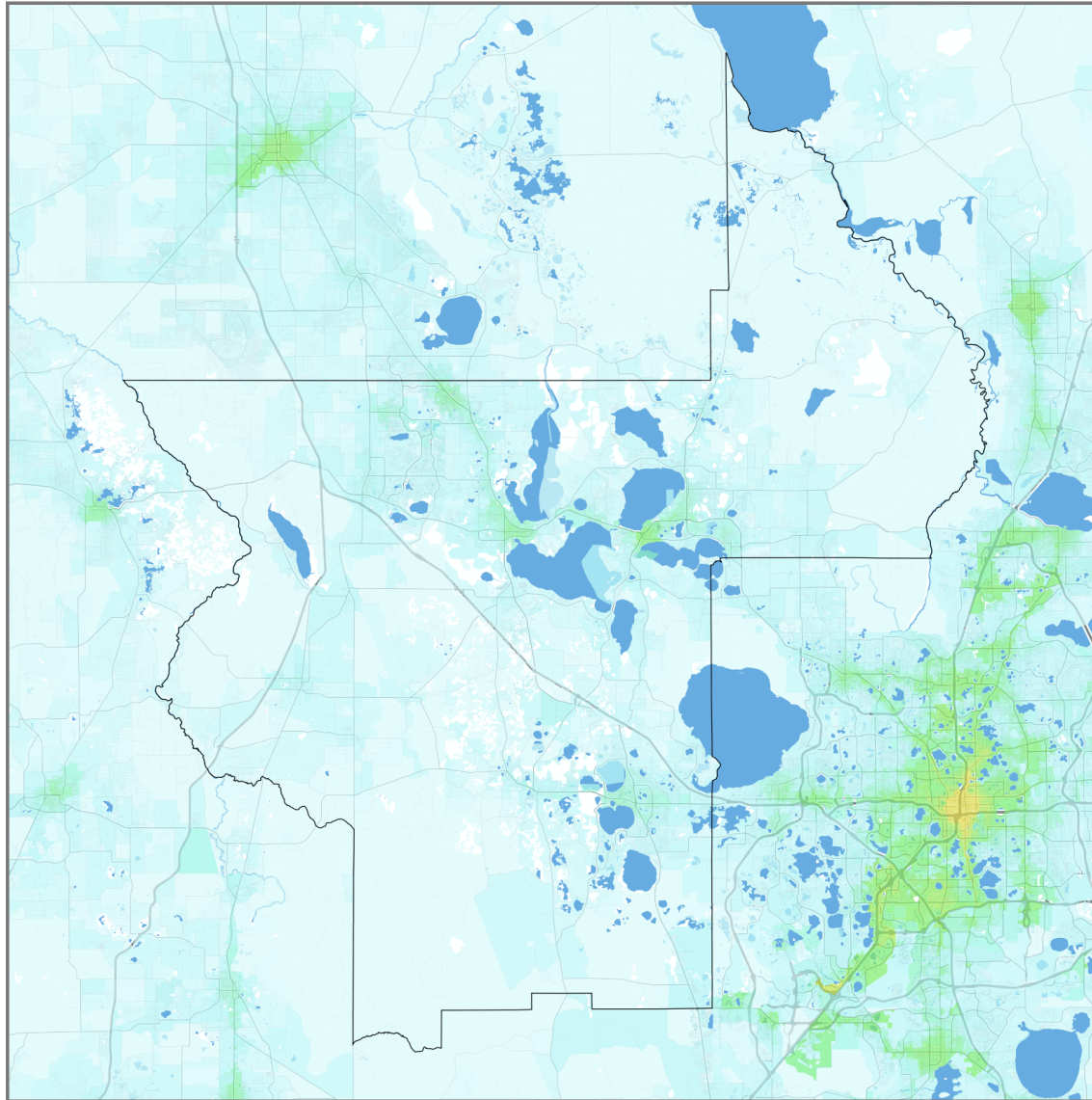


*Beginning in data year 2018, federal jobs and federal workers are not included due to changes in underlying datasets from the U.S. Census Bureau. As a result, comparisons between 2017 and 2018 accessibility results are less accurate in areas where federal employment is a greater share of total employment.

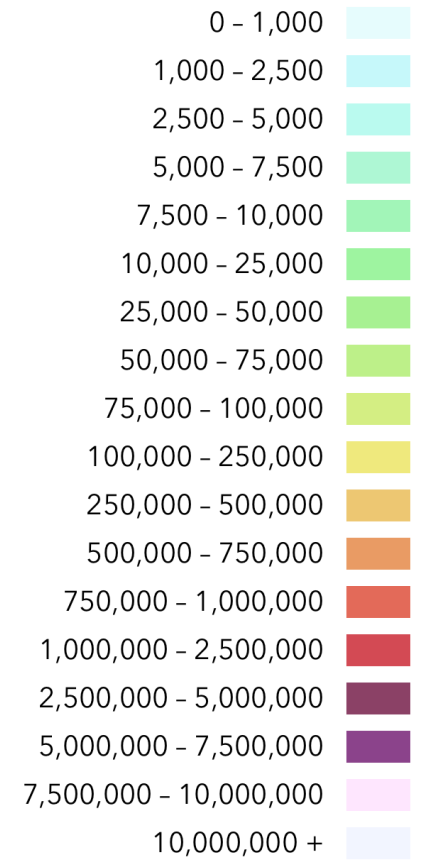
Transit Schedules Included

Agency	Dates
Central Florida Regional Transit Authority	December 28, 2017 - April 21, 2018
Lake County	April 24, 2017 - April 20, 2020
Lakeland	January 5, 2018 - July 9, 2018
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



Jobs within 30 minutes
(Transit, AM peak)



State border

MPO boundary

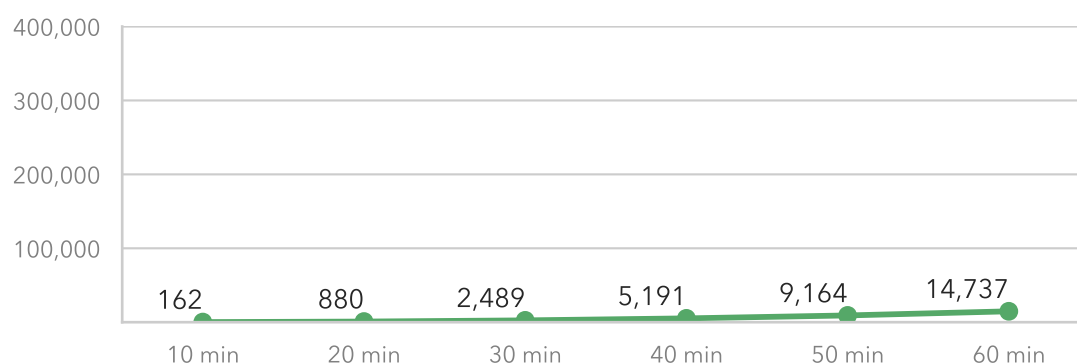
Lee County MPO

Job Accessibility Results—Transit, 2018

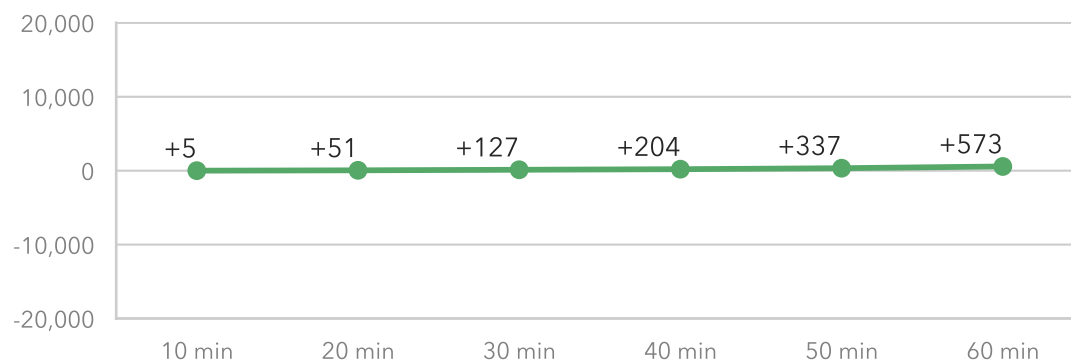
1-Year Change in Weighted Accessibility	+4.58%
Total Jobs	244,544
Average Job Density (per mi ²)	767
Total Workers	257,019
Average Worker Density (per mi ²)	806

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)*

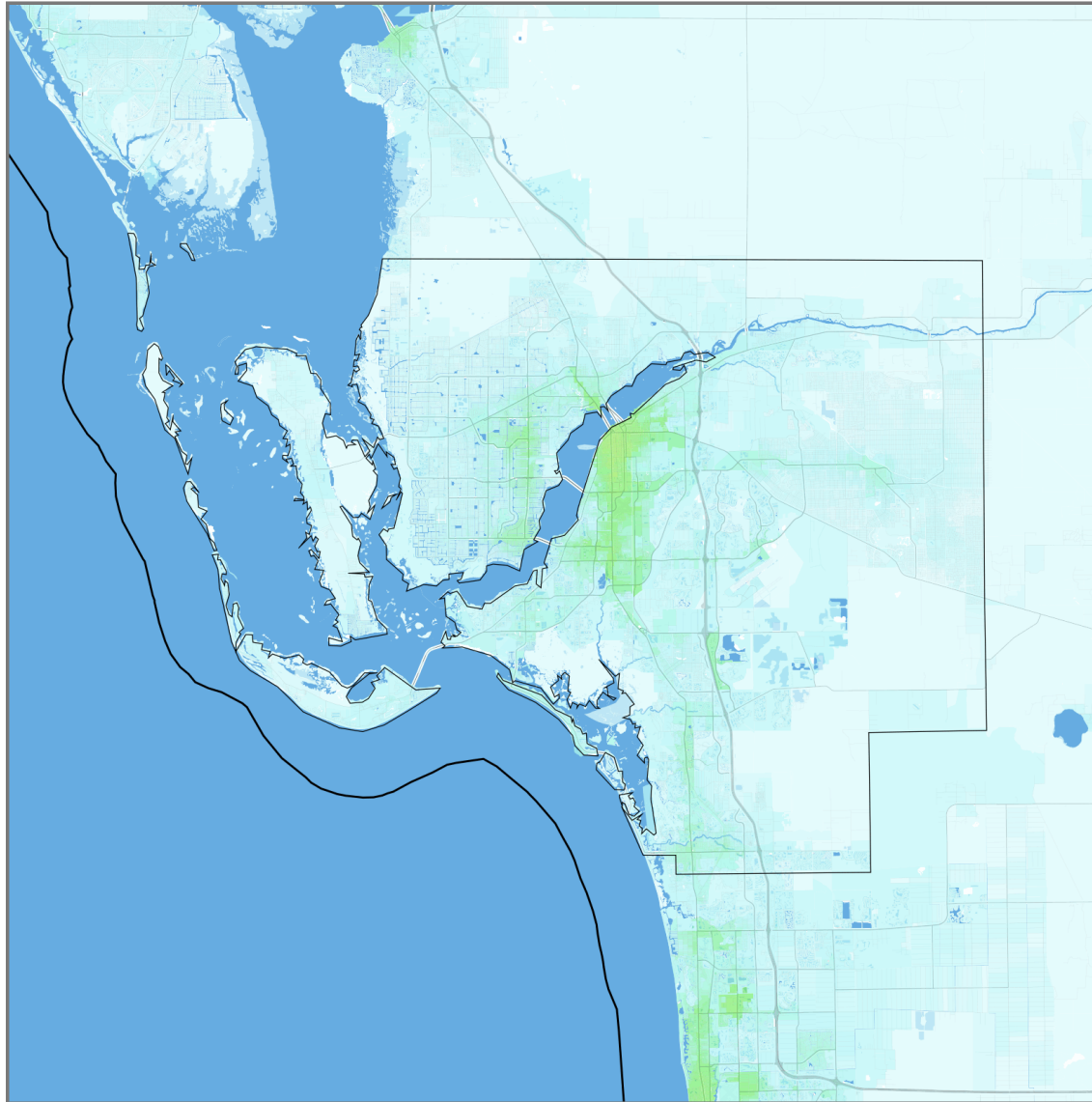


*Beginning in data year 2018, federal jobs and federal workers are not included due to changes in underlying datasets from the U.S. Census Bureau. As a result, comparisons between 2017 and 2018 accessibility results are less accurate in areas where federal employment is a greater share of total employment.

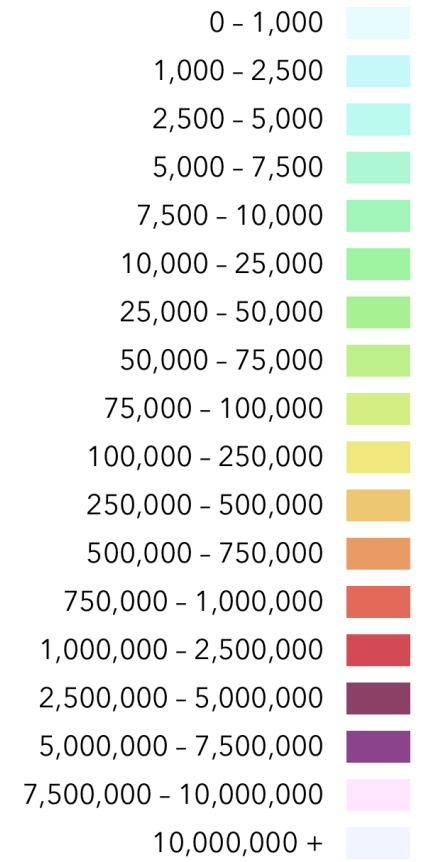
Transit Schedules Included

Agency	Dates
Lee County Transit	February 5, 2018 - April 11, 2018

Lee County MPO



Jobs within 30 minutes
(Transit, AM peak)



State border —
MPO boundary —

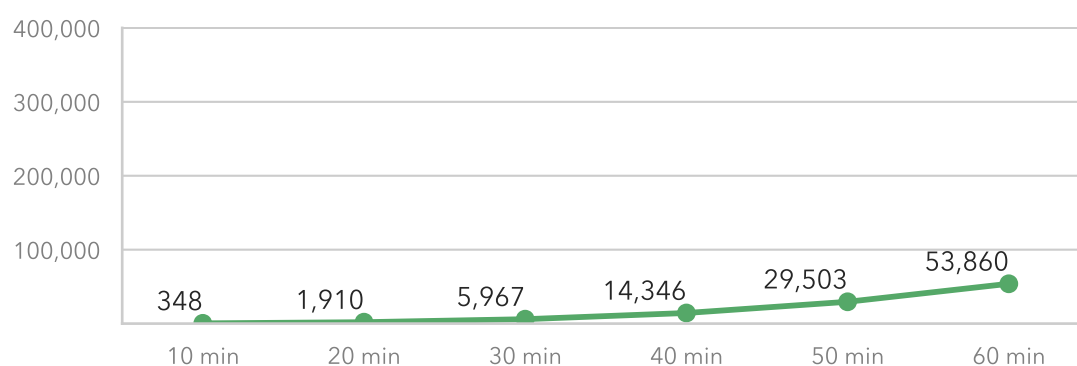
METROPLAN Orlando

Job Accessibility Results—Transit, 2018

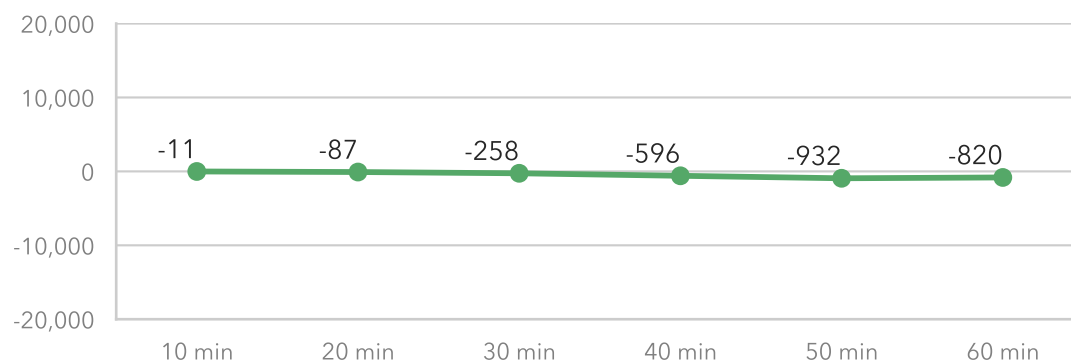
1-Year Change in Weighted Accessibility	-3.20%
Total Jobs	1,131,699
Average Job Density (per mi ²)	1025
Total Workers	970,164
Average Worker Density (per mi ²)	879

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)*



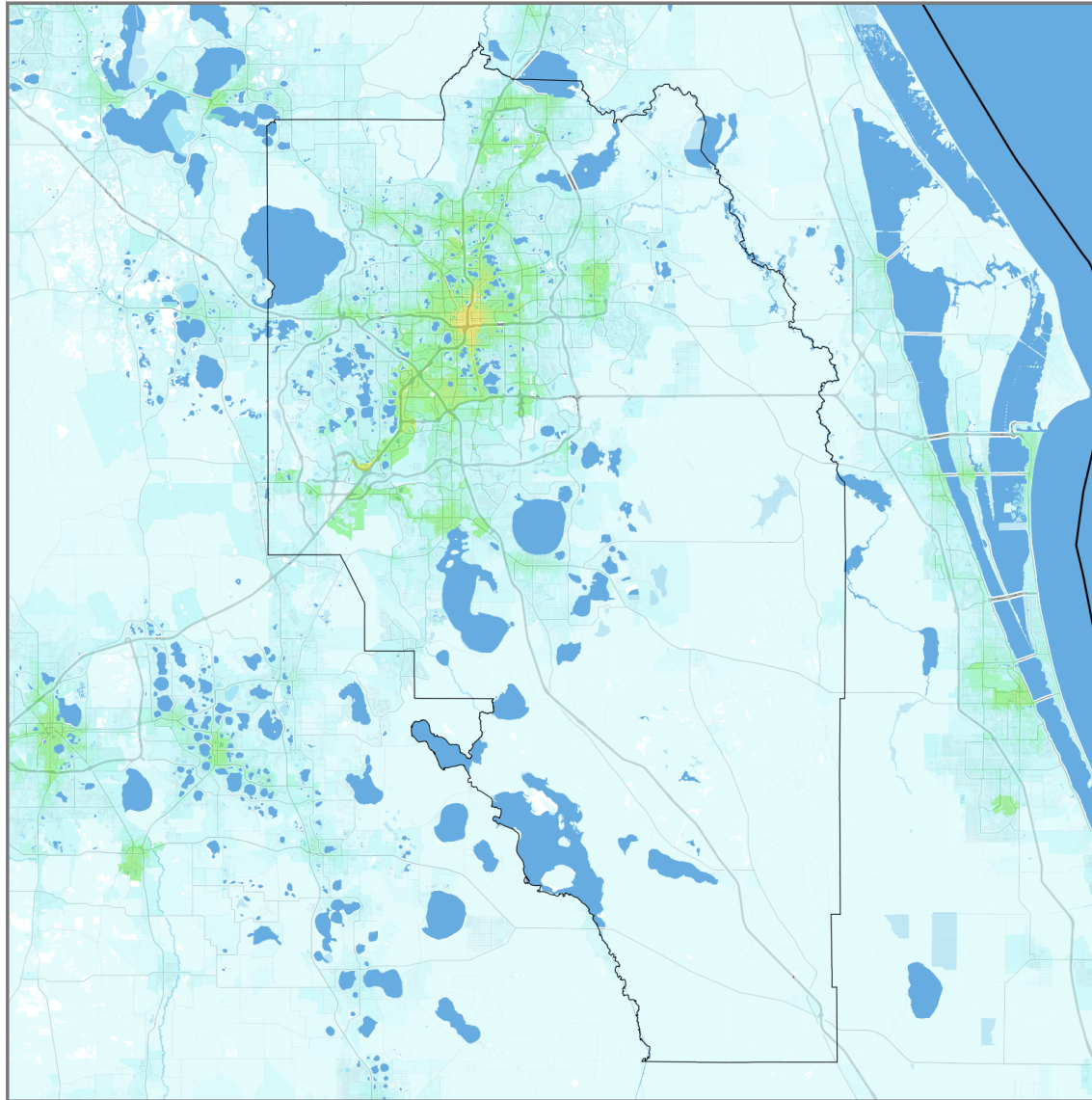
*Beginning in data year 2018, federal jobs and federal workers are not included due to changes in underlying datasets from the U.S. Census Bureau. As a result, comparisons between 2017 and 2018 accessibility results are less accurate in areas where federal employment is a greater share of total employment.

Transit Schedules Included

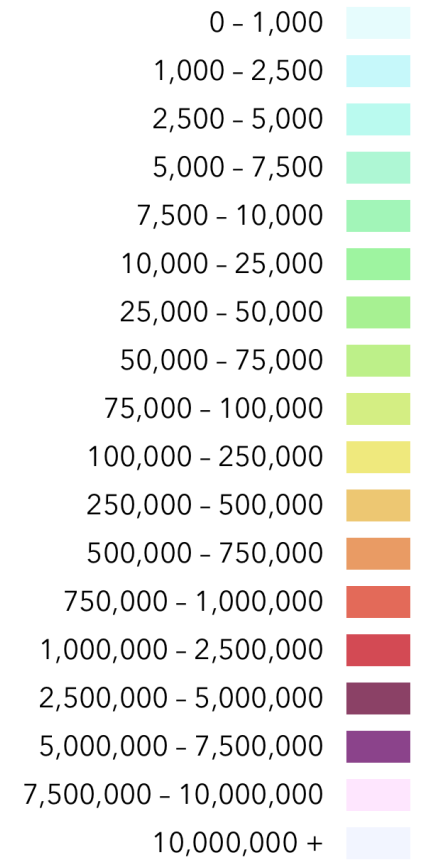
Agency	Dates
Central Florida Regional Transit Authority	December 28, 2017 - April 21, 2018
Florida Department of Transportation	July 30, 2018 - December 31, 2019
I-RIDE Trolley	January 1, 2018 - December 31, 2019
Lake County	April 24, 2017 - April 20, 2020
Lakeland	January 5, 2018 - July 9, 2018
Sanford Community Redevelopment Agency	January 1, 2018 - December 31, 2018
Winter Haven Area Transit	July 3, 2015 - December 31, 2015

METROPLAN Orlando

50



Jobs within 30 minutes
(Transit, AM peak)



State border

MPO boundary

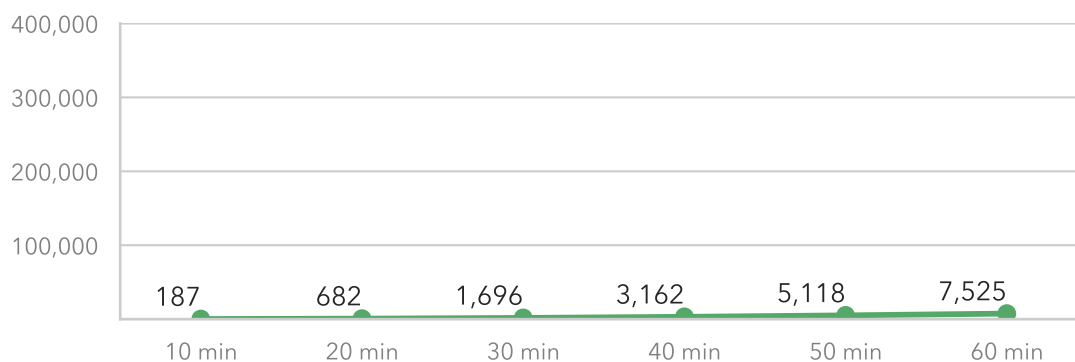
Martin MPO

Job Accessibility Results—Transit, 2018

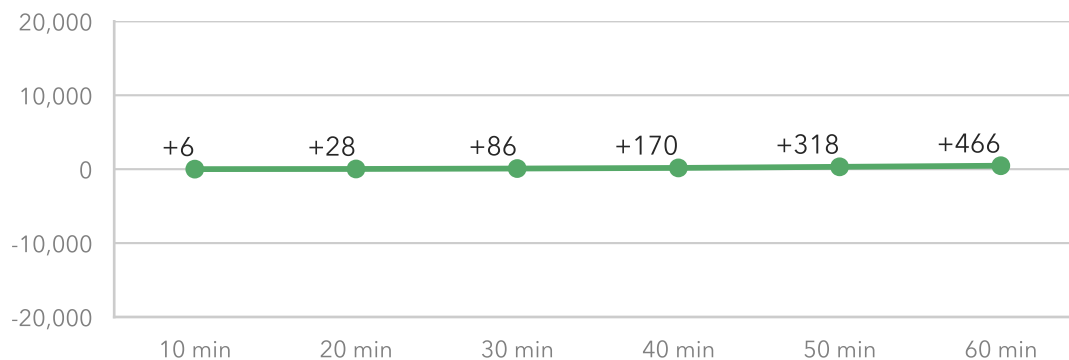
1-Year Change in Weighted Accessibility	+5.32%
Total Jobs	66,267
Average Job Density (per mi ²)	315
Total Workers	58,779
Average Worker Density (per mi ²)	279

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)*



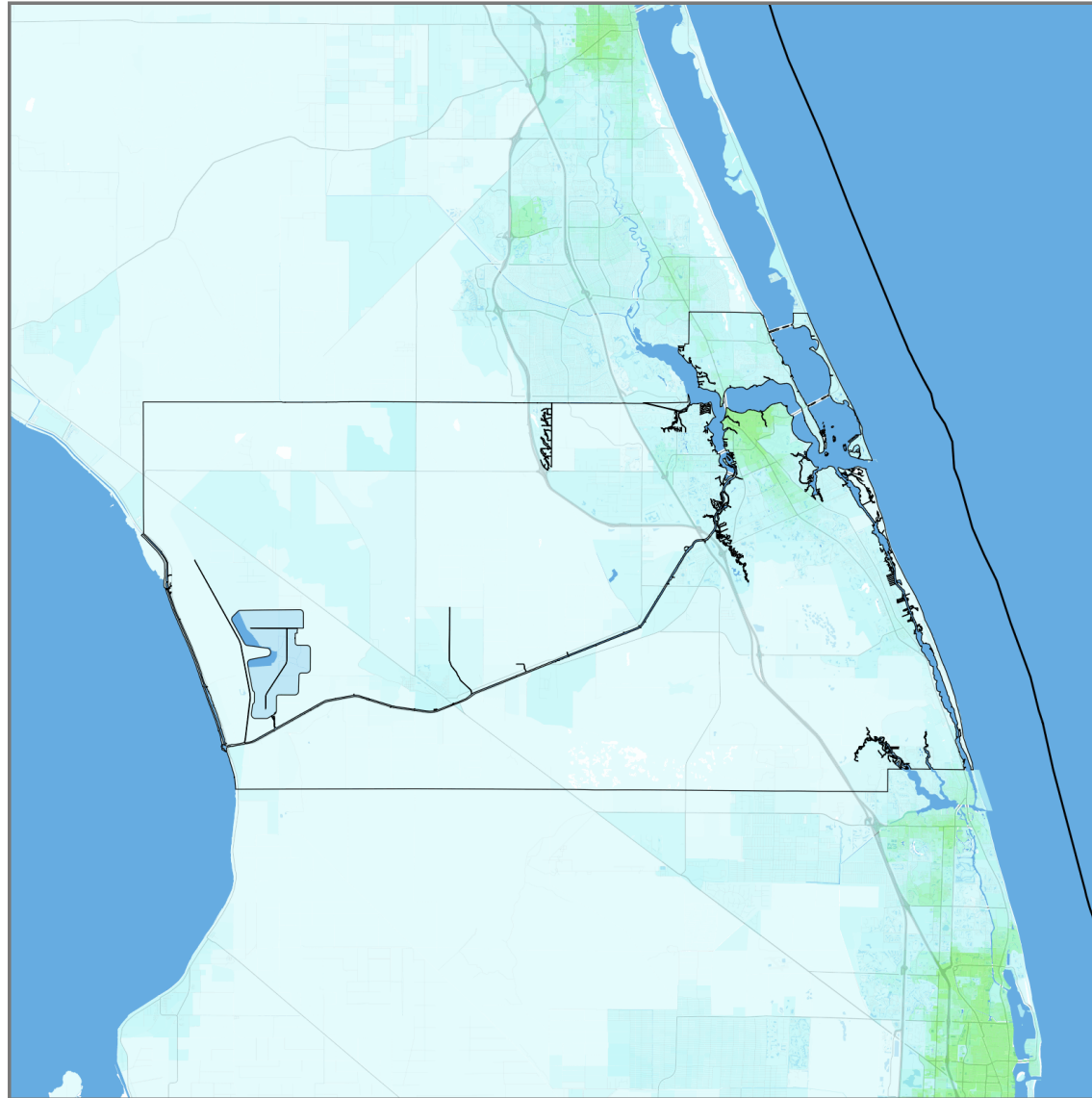
*Beginning in data year 2018, federal jobs and federal workers are not included due to changes in underlying datasets from the U.S. Census Bureau. As a result, comparisons between 2017 and 2018 accessibility results are less accurate in areas where federal employment is a greater share of total employment.

Transit Schedules Included

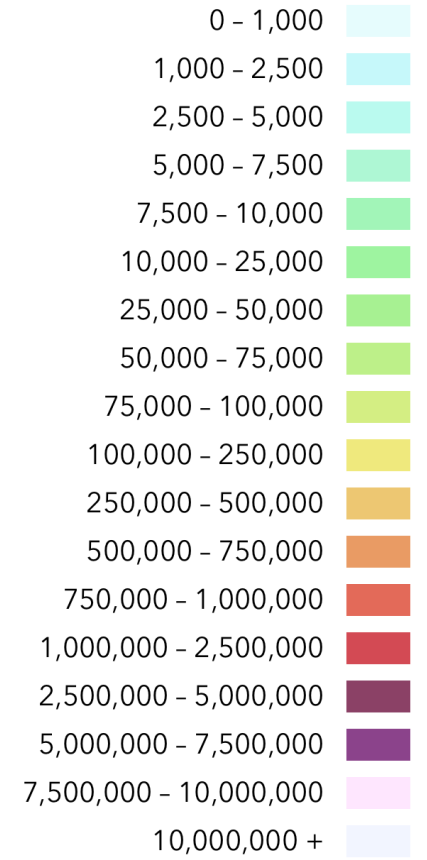
Agency	Dates
Martin County Public Transit	May 1, 2013 - December 31, 2014
Treasure Coast Connector	May 18, 2015 - December 31, 2015

Martin MPO

53



Jobs within 30 minutes
(Transit, AM peak)



State border

MPO boundary

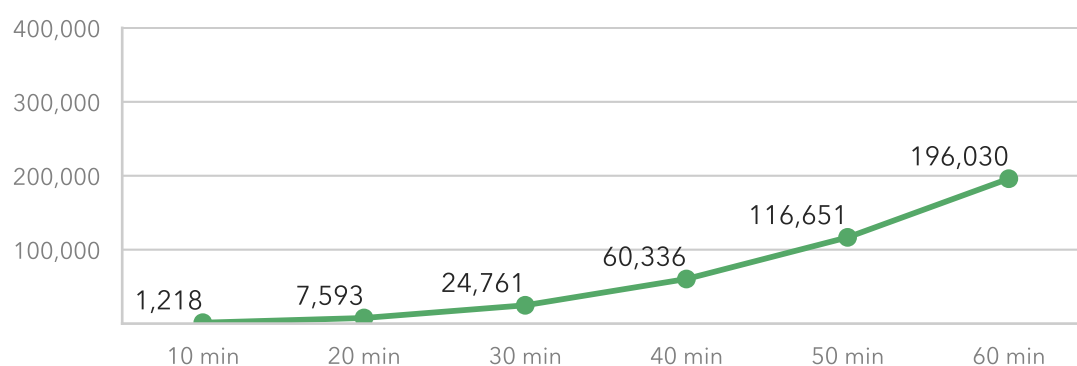
Miami-Dade TPO

Job Accessibility Results—Transit, 2018

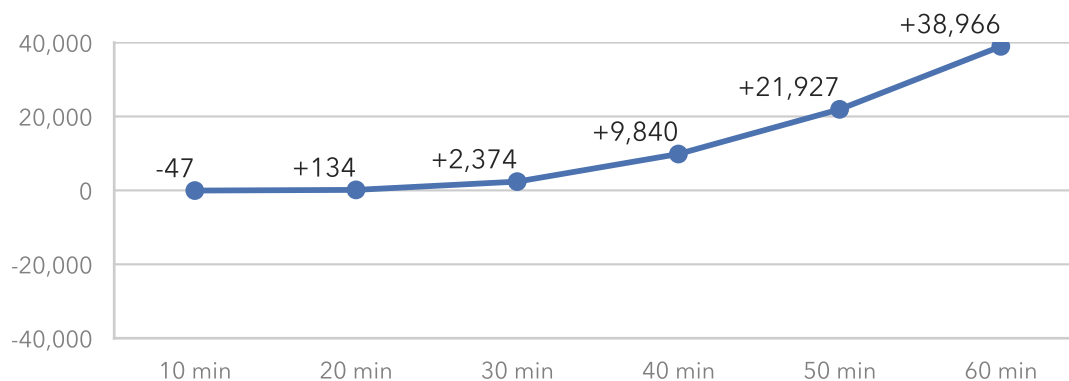
1-Year Change in Weighted Accessibility	+15.68%
Total Jobs	1,109,244
Average Job Density (per mi ²)	1422
Total Workers	1,064,182
Average Worker Density (per mi ²)	1365

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)*



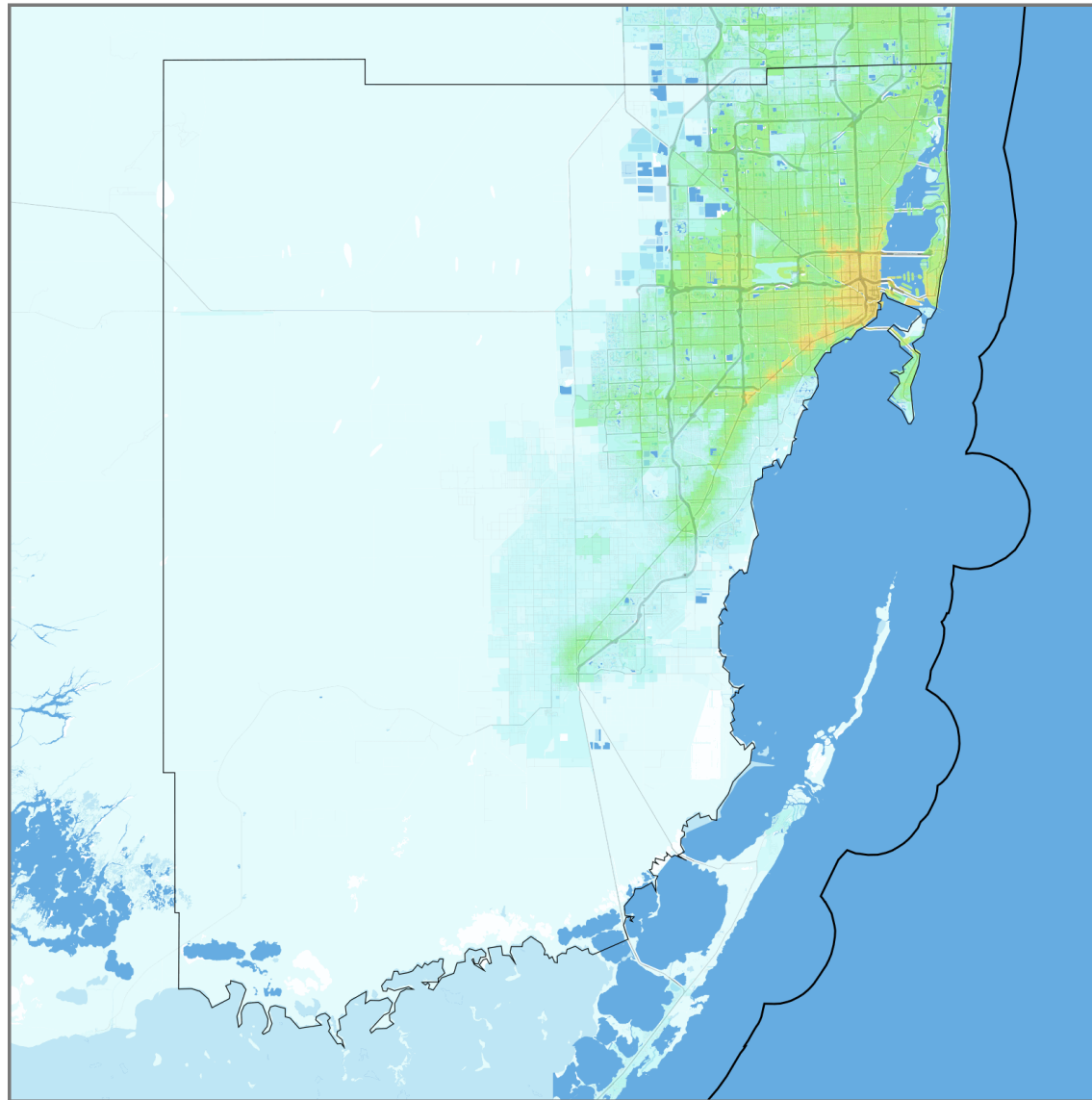
*Beginning in data year 2018, federal jobs and federal workers are not included due to changes in underlying datasets from the U.S. Census Bureau. As a result, comparisons between 2017 and 2018 accessibility results are less accurate in areas where federal employment is a greater share of total employment.

Transit Schedules Included

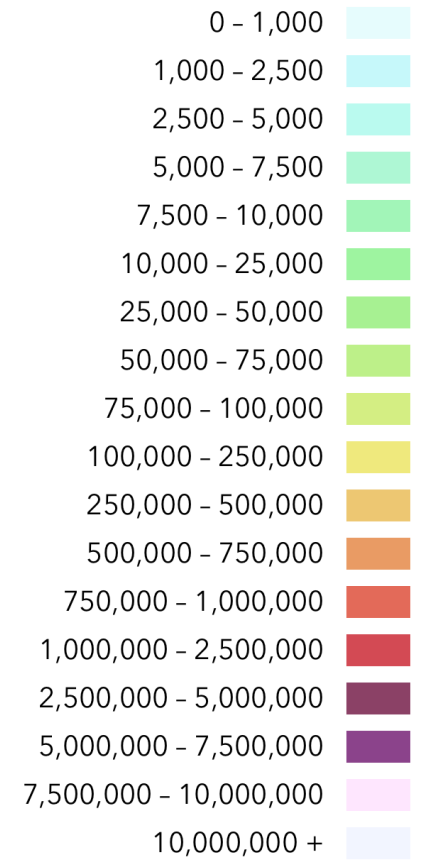
Agency	Dates
Broward County Transit	January 14, 2018 - September 8, 2018
Miami-Dade Transit	March 11, 2018 - July 28, 2018
SFRTA/Tri-Rail	April 20, 2012 - December 31, 2024

Miami-Dade TPO

56



Jobs within 30 minutes
(Transit, AM peak)



State border —
MPO boundary —

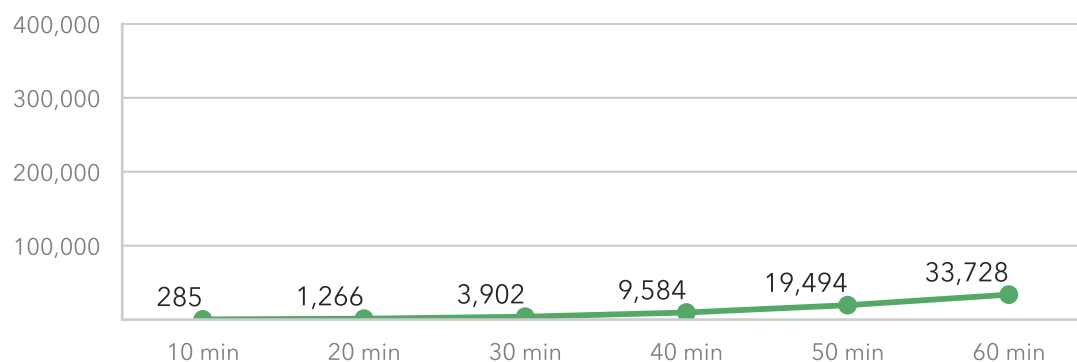
North Florida Transportation Planning Organization

Job Accessibility Results—Transit, 2018

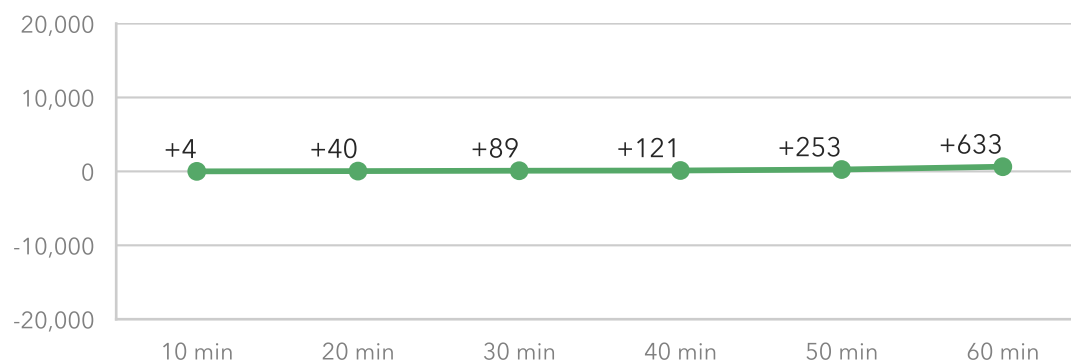
1-Year Change in Weighted Accessibility	+1.89%
Total Jobs	649,461
Average Job Density (per mi ²)	627
Total Workers	632,365
Average Worker Density (per mi ²)	611

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)*



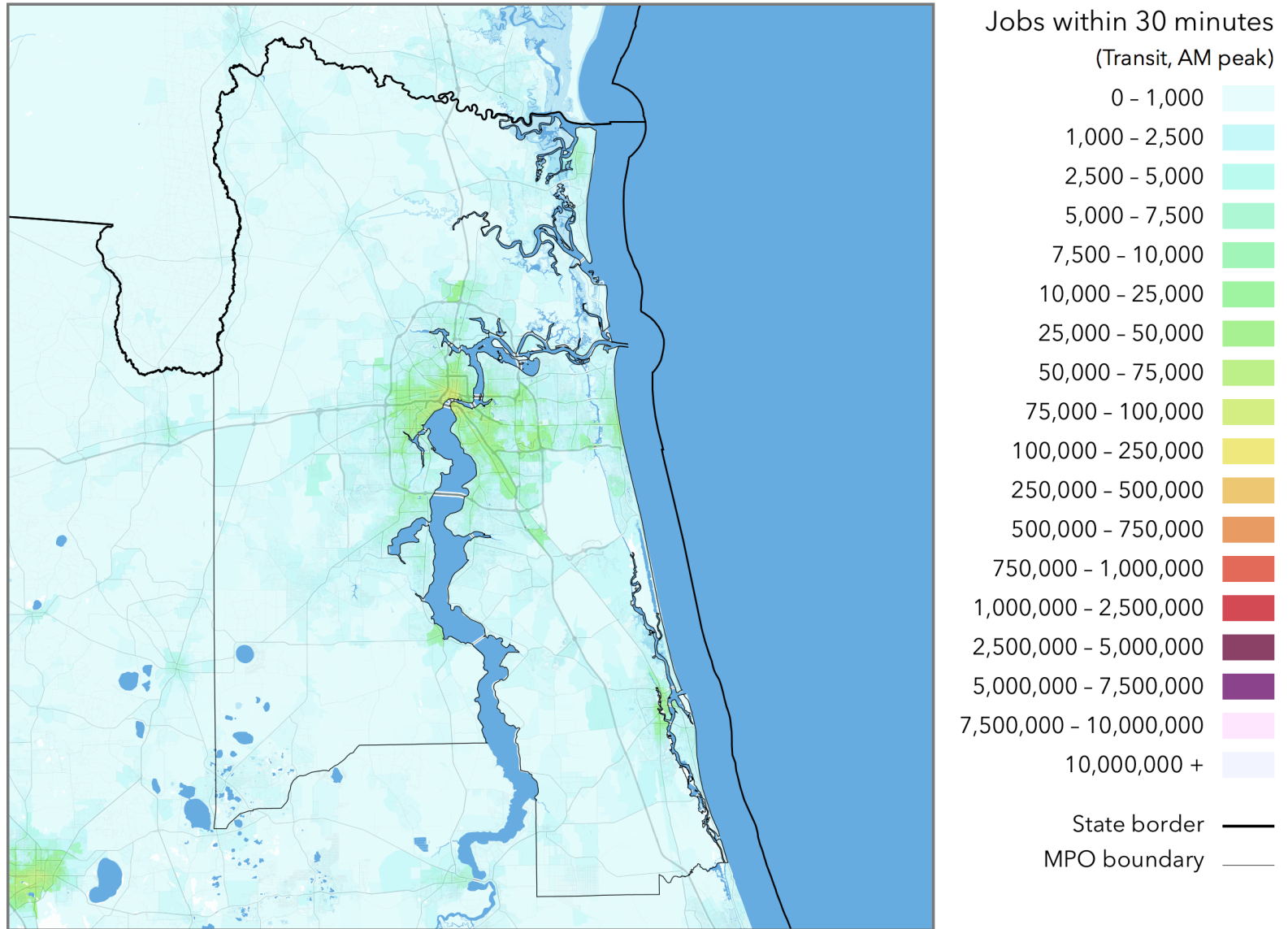
*Beginning in data year 2018, federal jobs and federal workers are not included due to changes in underlying datasets from the U.S. Census Bureau. As a result, comparisons between 2017 and 2018 accessibility results are less accurate in areas where federal employment is a greater share of total employment.

Transit Schedules Included

Agency	Dates
Jacksonville Transportation Authority	December 4, 2017 - August 5, 2018
Sunshine Bus Company	July 1, 2015 - January 1, 2020

North Florida Transportation Planning Organization

59



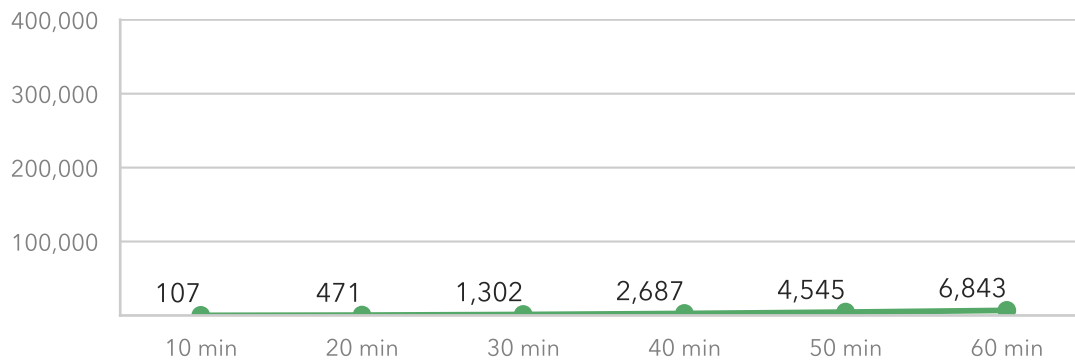
Ocala - Marion County Transportation Planning Organization

Job Accessibility Results—Transit, 2018

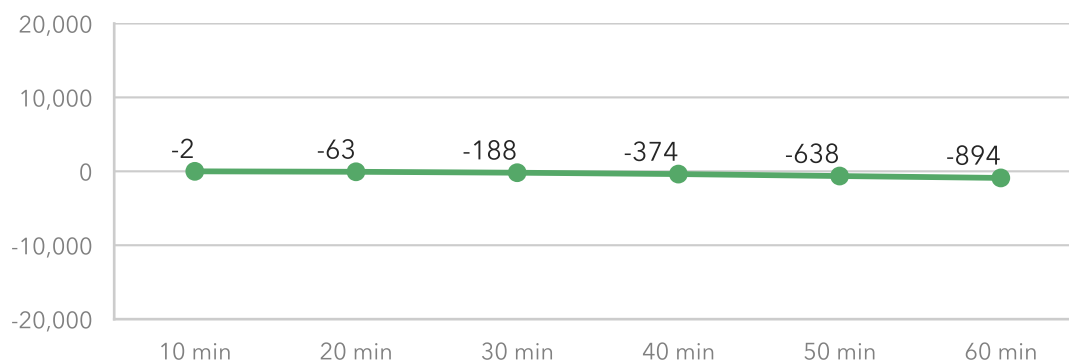
1-Year Change in Weighted Accessibility	-11.31%
Total Jobs	100,205
Average Job Density (per mi ²)	156
Total Workers	117,608
Average Worker Density (per mi ²)	183

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)*

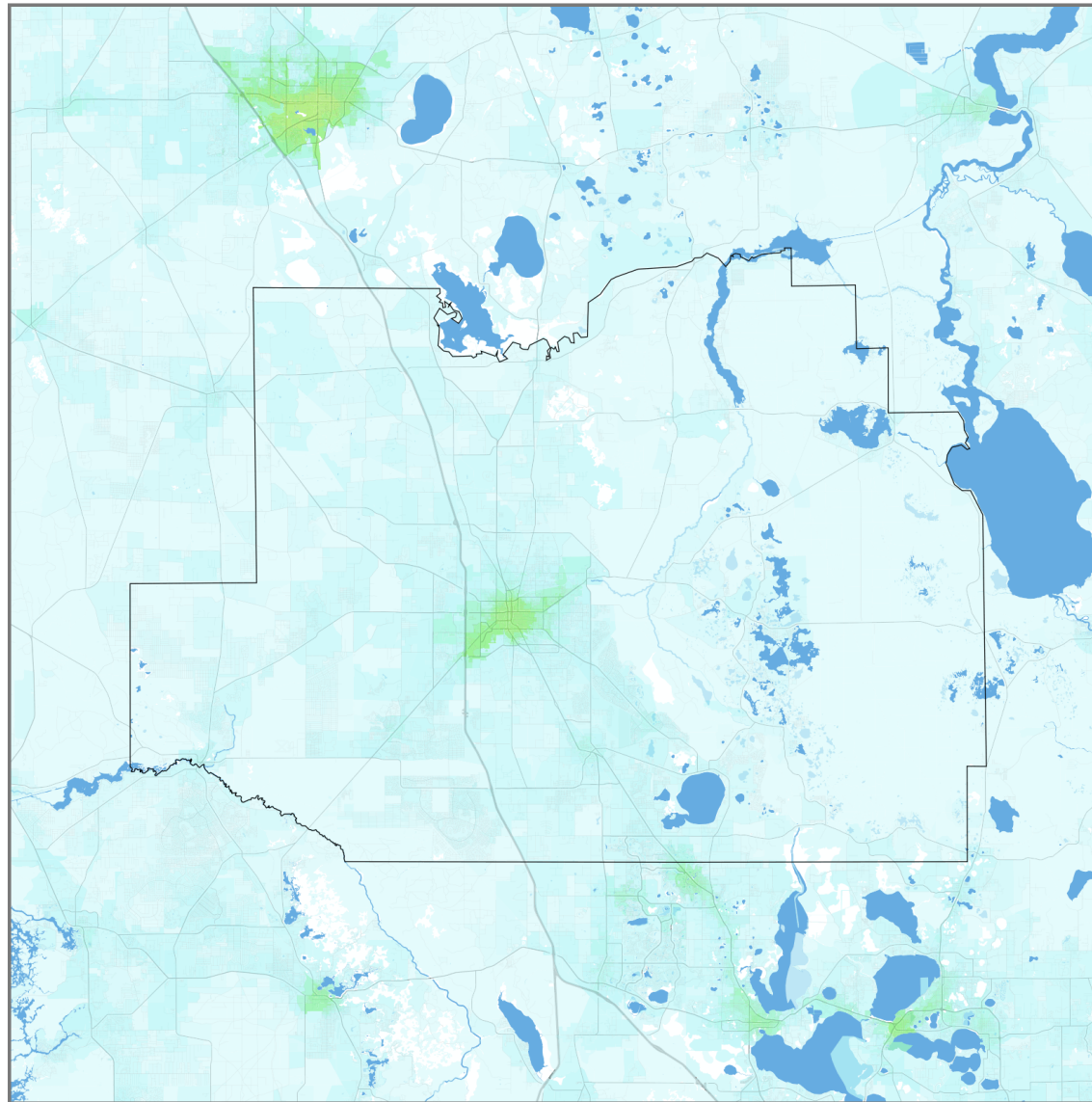


*Beginning in data year 2018, federal jobs and federal workers are not included due to changes in underlying datasets from the U.S. Census Bureau. As a result, comparisons between 2017 and 2018 accessibility results are less accurate in areas where federal employment is a greater share of total employment.

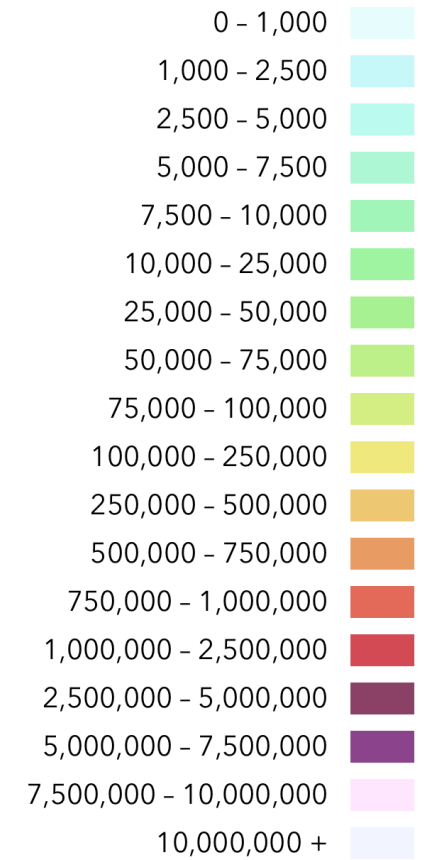
Transit Schedules Included

Agency	Dates
SunTran (City of Ocala)	July 1, 2015 - May 31, 2020

Ocala - Marion County Transportation Planning Organization



Jobs within 30 minutes
(Transit, AM peak)



State border

MPO boundary

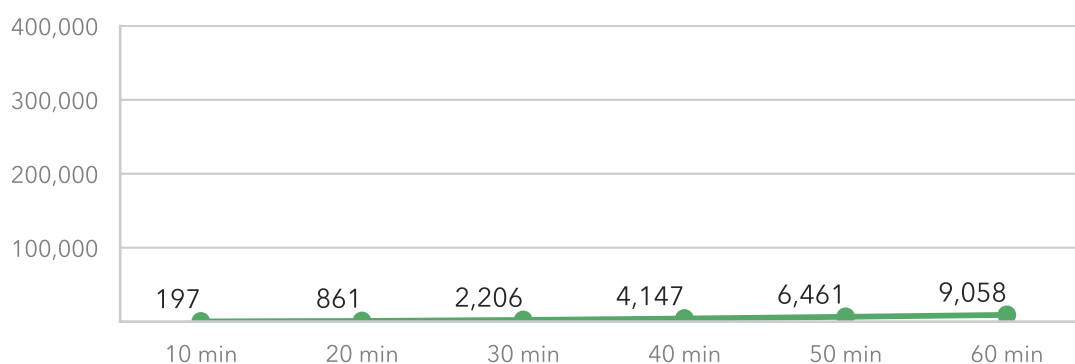
Okaloosa-Walton Transportation Planning Organization

Job Accessibility Results—Transit, 2018

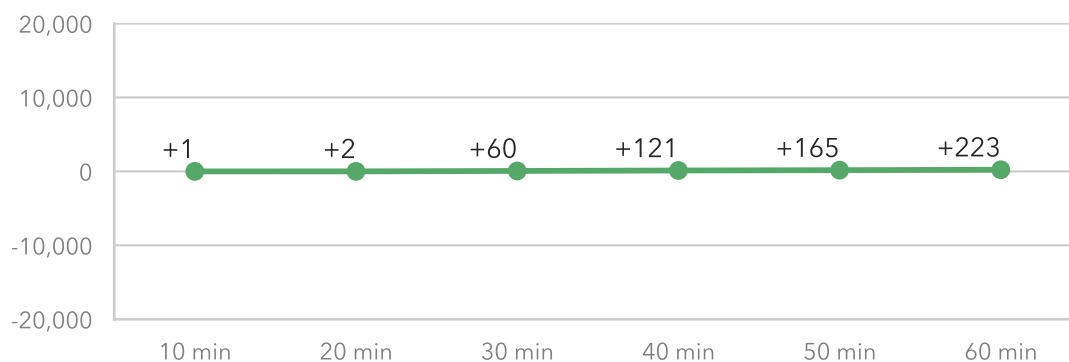
1-Year Change in Weighted Accessibility	+2.03%
Total Jobs	105,294
Average Job Density (per mi ²)	187
Total Workers	91,374
Average Worker Density (per mi ²)	162

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)*

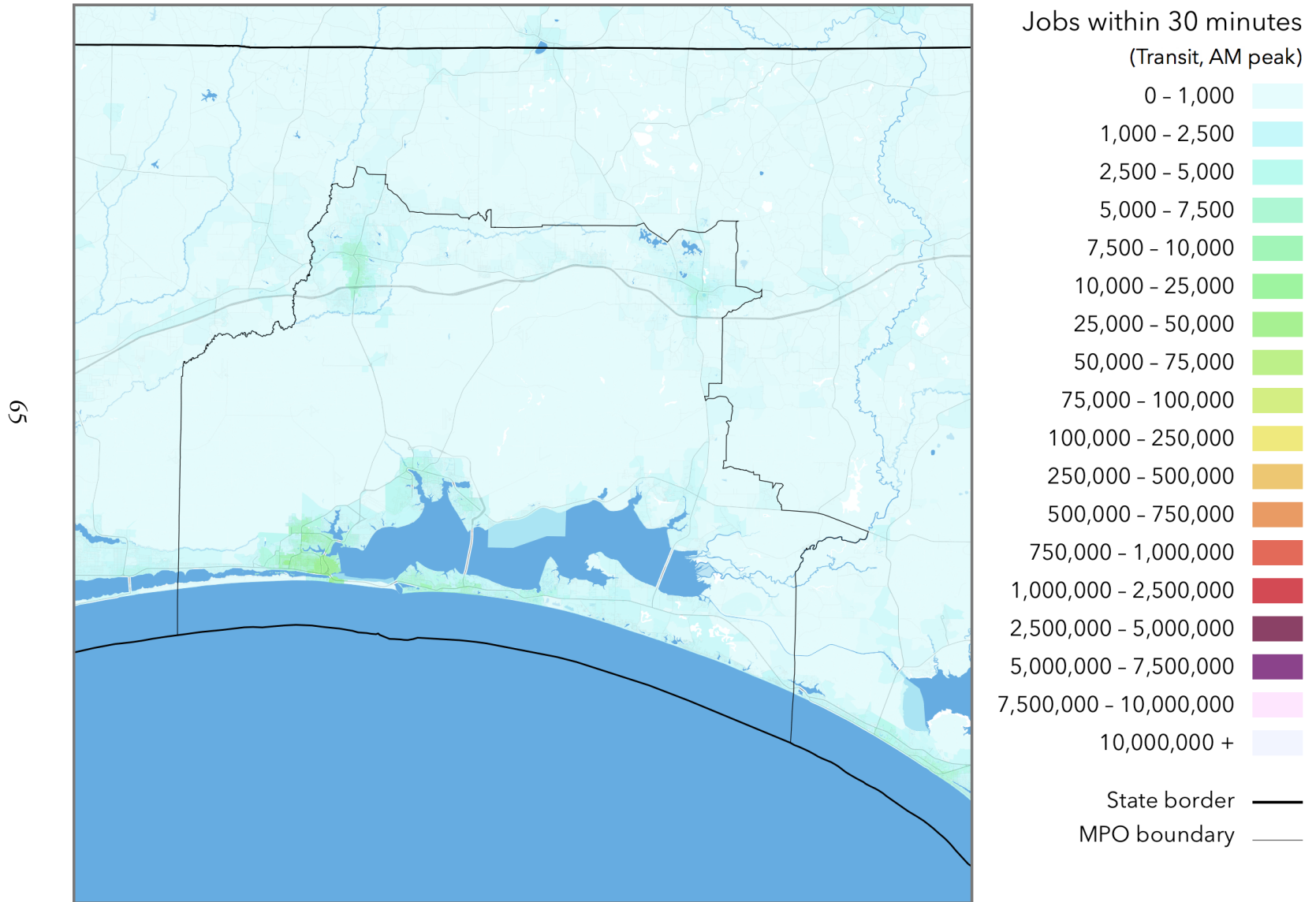


*Beginning in data year 2018, federal jobs and federal workers are not included due to changes in underlying datasets from the U.S. Census Bureau. As a result, comparisons between 2017 and 2018 accessibility results are less accurate in areas where federal employment is a greater share of total employment.

Transit Schedules Included

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

Okaloosa-Walton Transportation Planning Organization



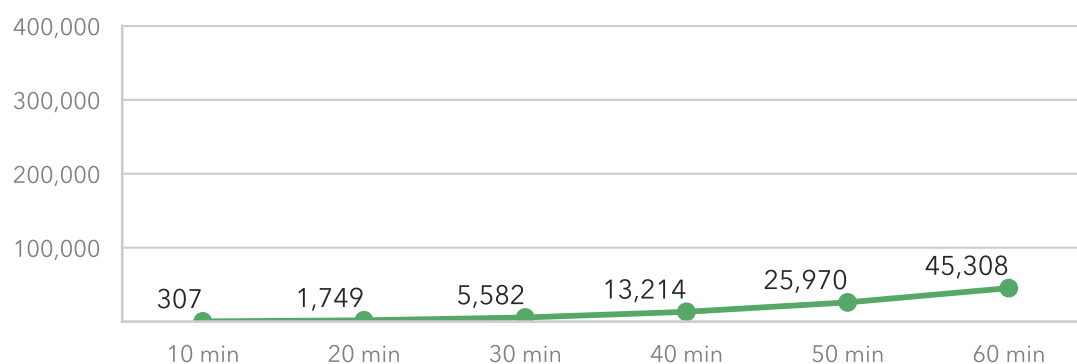
Palm Beach MPO

Job Accessibility Results—Transit, 2018

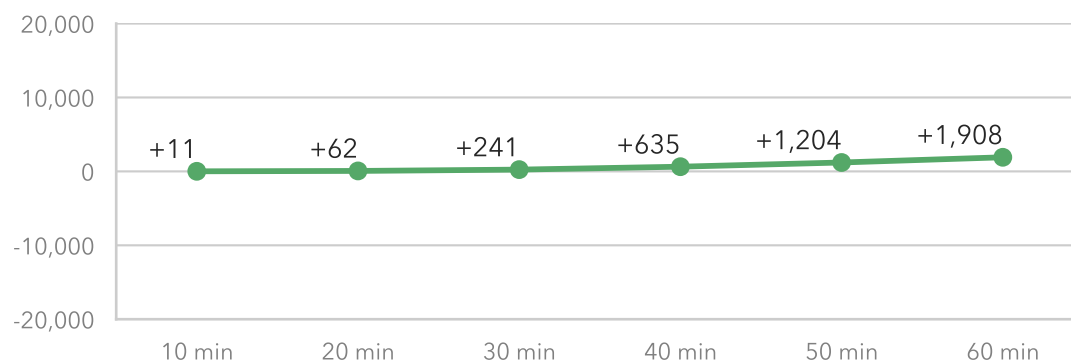
1-Year Change in Weighted Accessibility	+4.50%
Total Jobs	596,430
Average Job Density (per mi ²)	780
Total Workers	567,949
Average Worker Density (per mi ²)	743

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)*



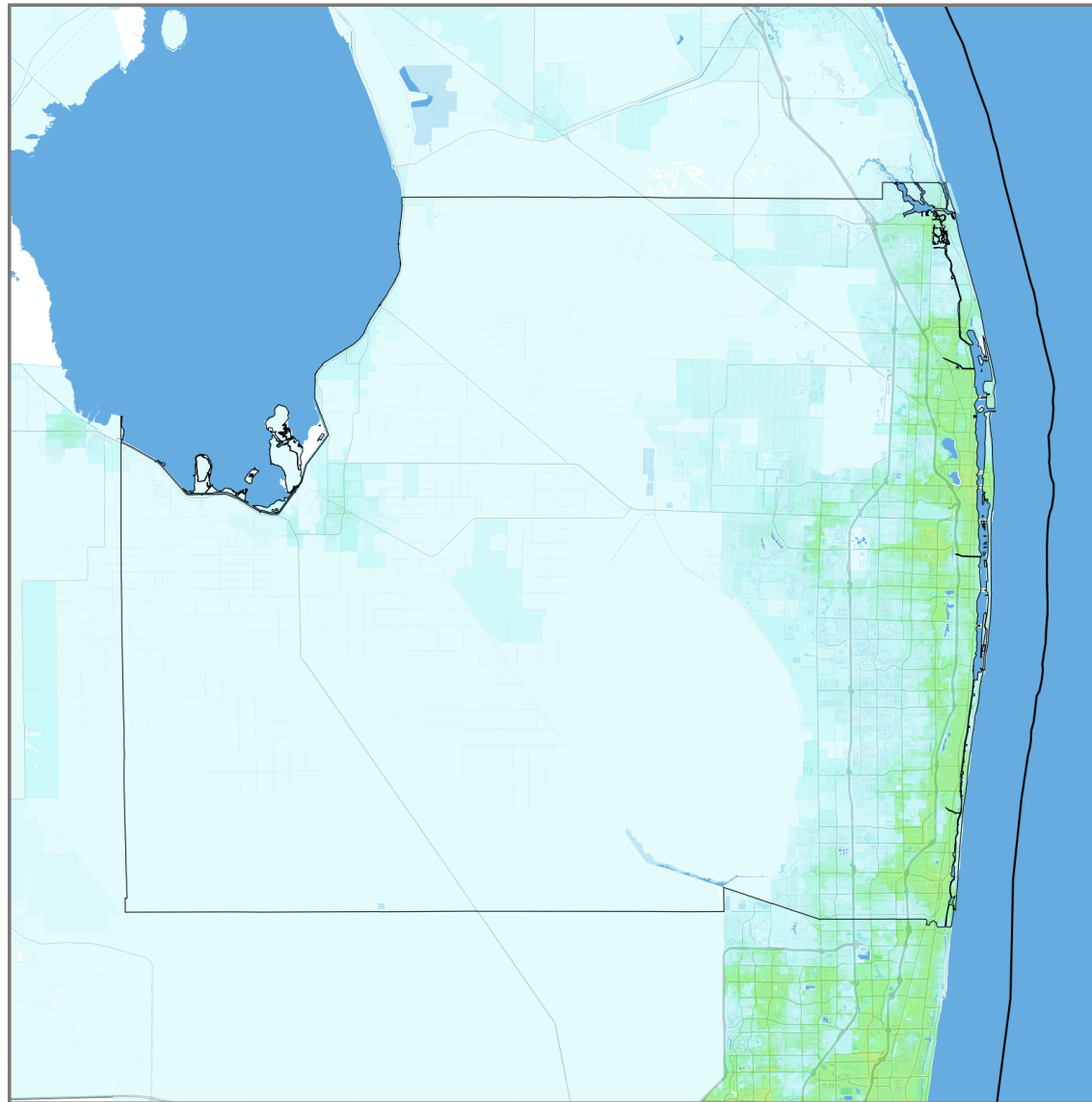
*Beginning in data year 2018, federal jobs and federal workers are not included due to changes in underlying datasets from the U.S. Census Bureau. As a result, comparisons between 2017 and 2018 accessibility results are less accurate in areas where federal employment is a greater share of total employment.

Transit Schedules Included

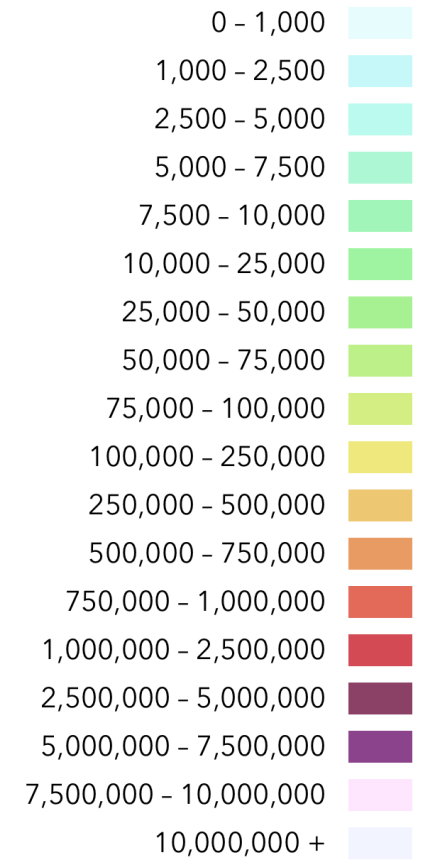
Agency	Dates
Broward County Transit	January 14, 2018 - September 8, 2018
Palm Tran	December 13, 2017 - May 12, 2018
SFRTA/Tri-Rail	April 20, 2012 - December 31, 2024

Palm Beach MPO

89



Jobs within 30 minutes
(Transit, AM peak)



State border —
MPO boundary —

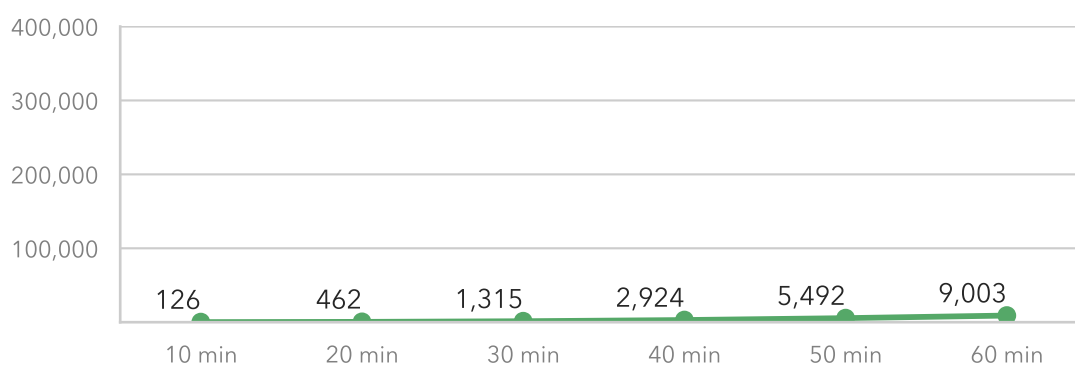
Pasco County MPO

Job Accessibility Results—Transit, 2018

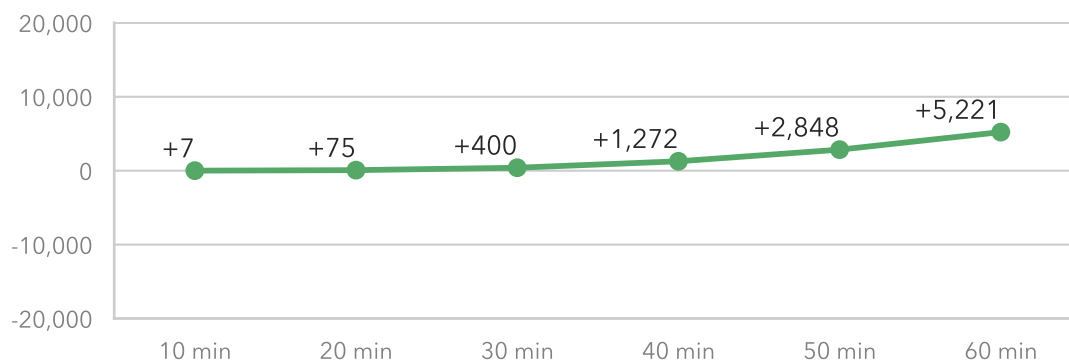
1-Year Change in Weighted Accessibility	+61.16%
Total Jobs	116,720
Average Job Density (per mi ²)	394
Total Workers	192,220
Average Worker Density (per mi ²)	649

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)*



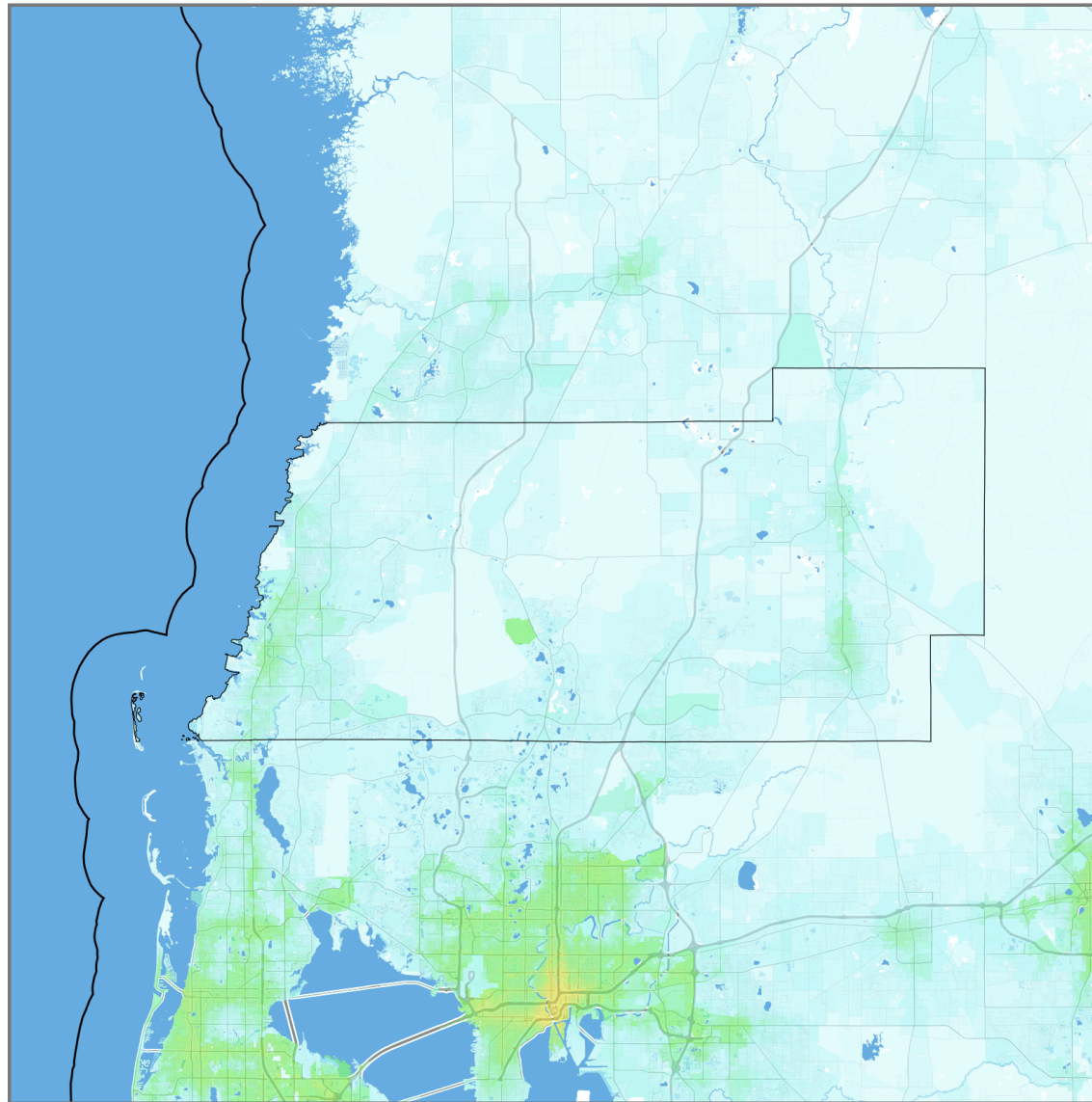
*Beginning in data year 2018, federal jobs and federal workers are not included due to changes in underlying datasets from the U.S. Census Bureau. As a result, comparisons between 2017 and 2018 accessibility results are less accurate in areas where federal employment is a greater share of total employment.

Transit Schedules Included

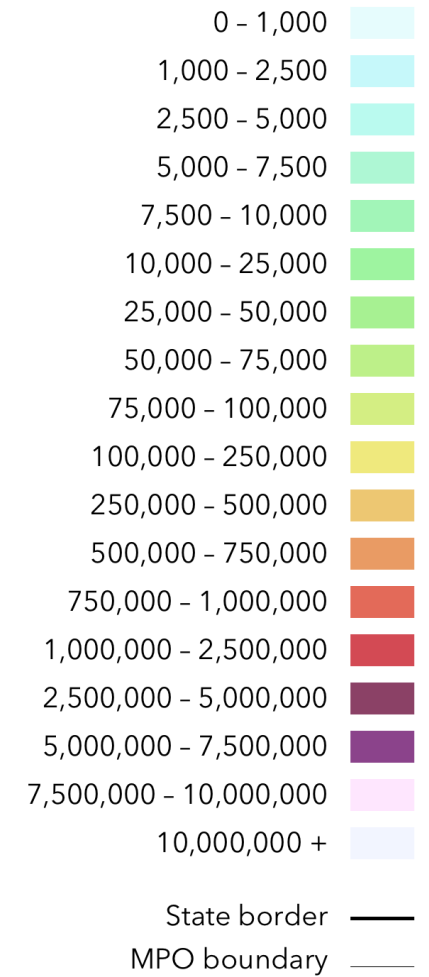
Agency	Dates
Hillsborough Area Regional Transit	October 8, 2017 - June 30, 2018
Pasco County Public Transportation	December 18, 2017 - January 1, 2020
The Hernando Express	January 1, 2015 - January 1, 2017

Pasco County MPO

71



Jobs within 30 minutes
(Transit, AM peak)



Polk County Transportation Planning Organization

Job Accessibility Results—Transit, 2018

1-Year Change in Weighted Accessibility **+30.46%**

Total Jobs **230,165**

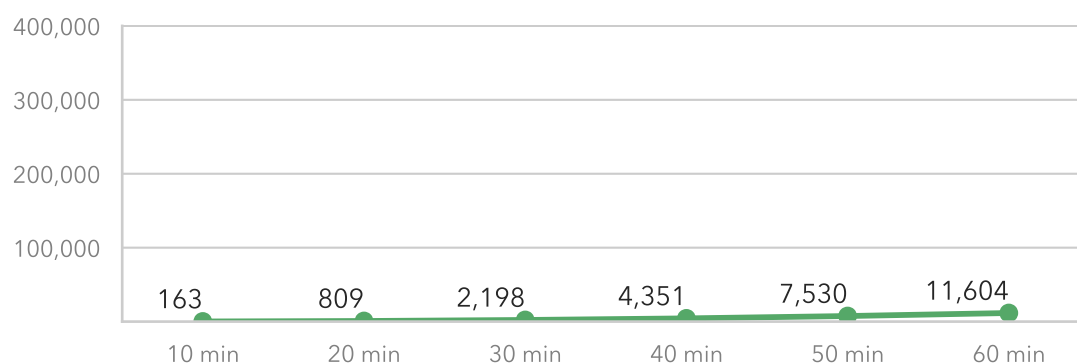
Average Job Density (per mi²) **296**

Total Workers **264,063**

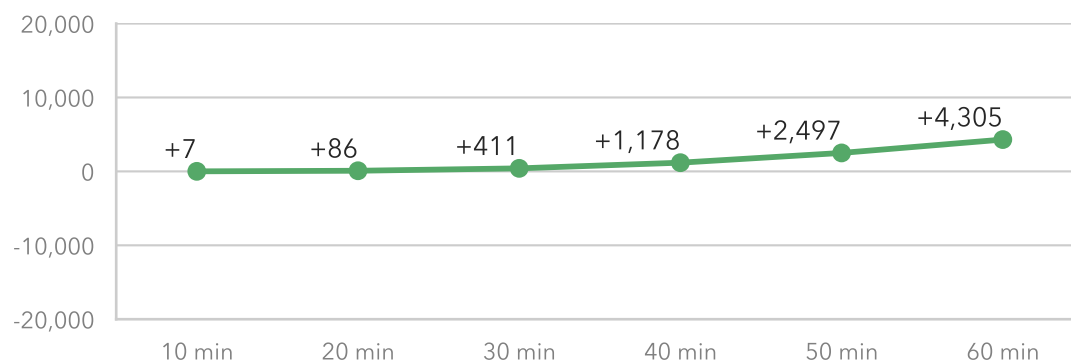
Average Worker Density (per mi²) **340**

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)*

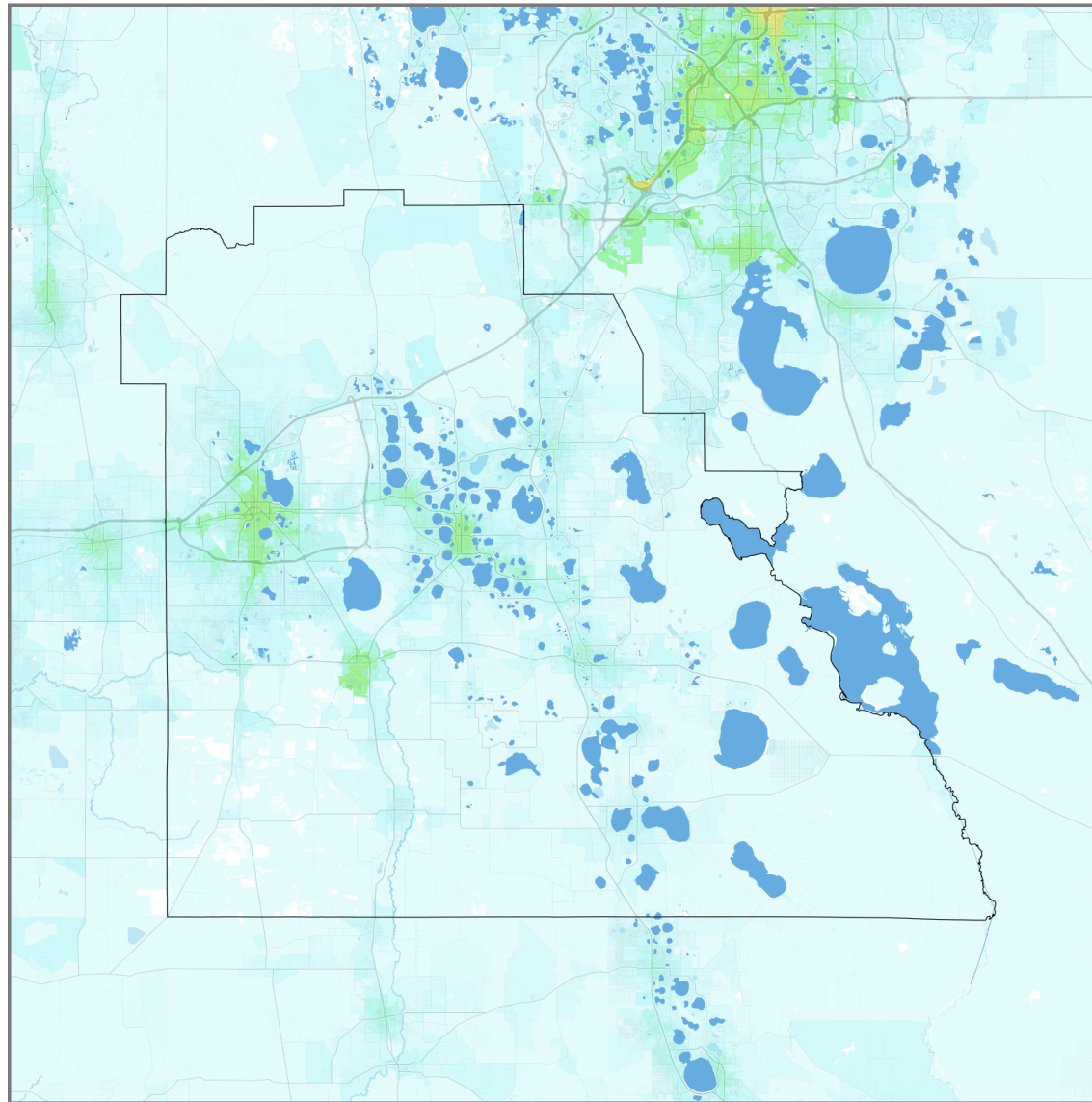


*Beginning in data year 2018, federal jobs and federal workers are not included due to changes in underlying datasets from the U.S. Census Bureau. As a result, comparisons between 2017 and 2018 accessibility results are less accurate in areas where federal employment is a greater share of total employment.

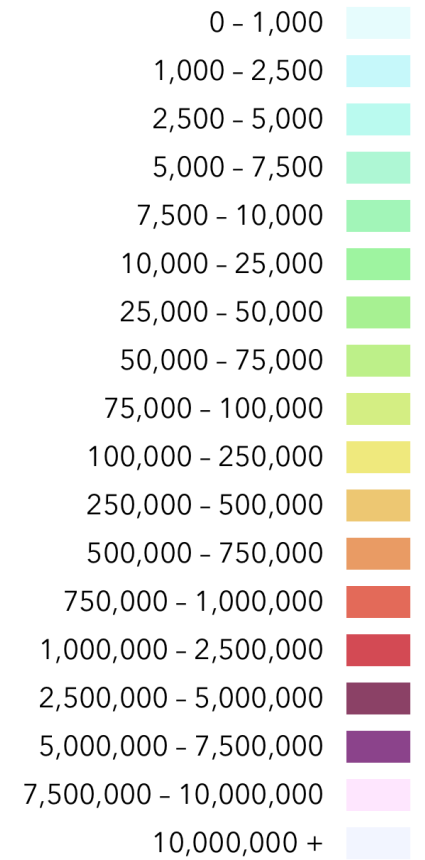
Transit Schedules Included

Agency	Dates
Central Florida Regional Transit Authority	December 28, 2017 - April 21, 2018
Lakeland	January 5, 2018 - July 9, 2018
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



Jobs within 30 minutes
(Transit, AM peak)



State border

MPO boundary

River to Sea Transportation Planning Organization

Job Accessibility Results—Transit, 2018

1-Year Change in Weighted Accessibility **+2.18%**

Total Jobs **186,308**

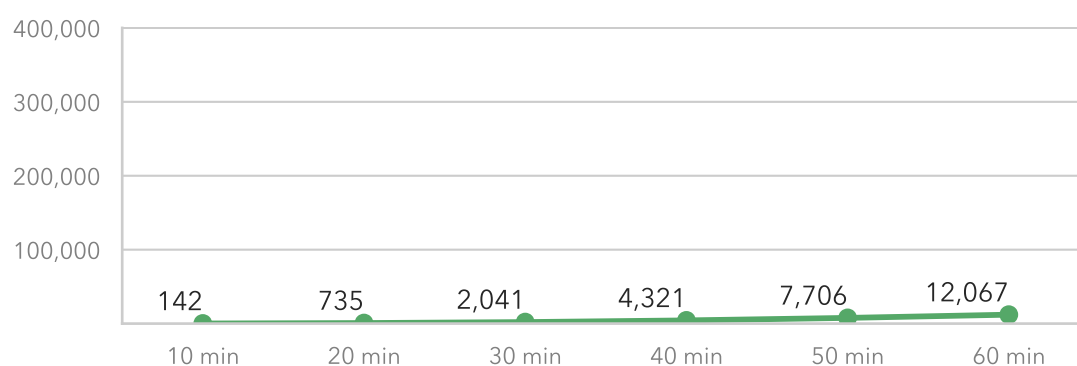
Average Job Density (per mi²) **355**

Total Workers **241,595**

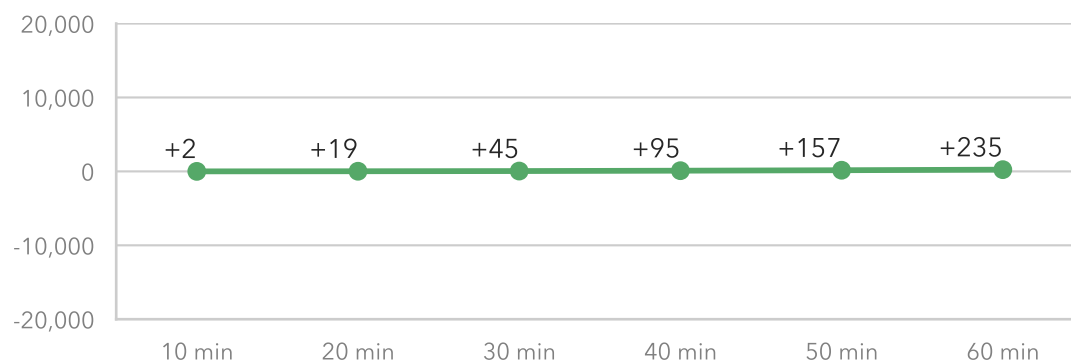
Average Worker Density (per mi²) **461**

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)*

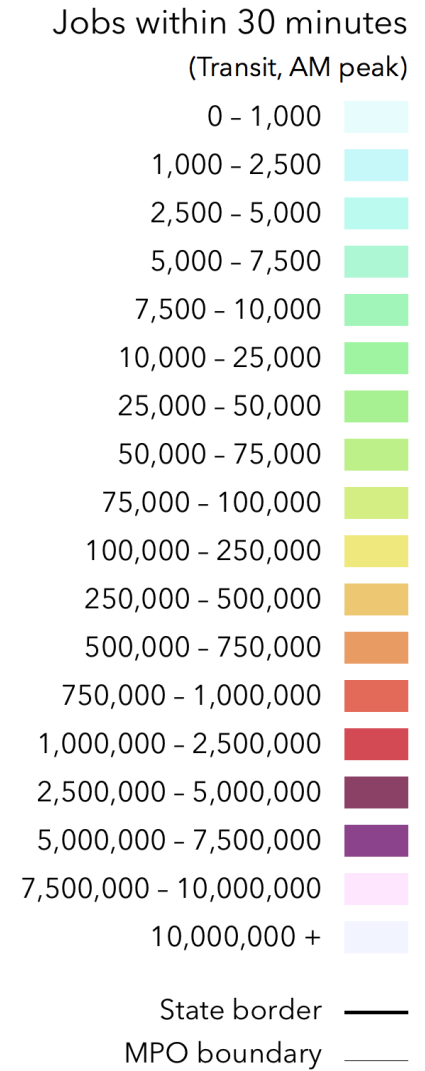
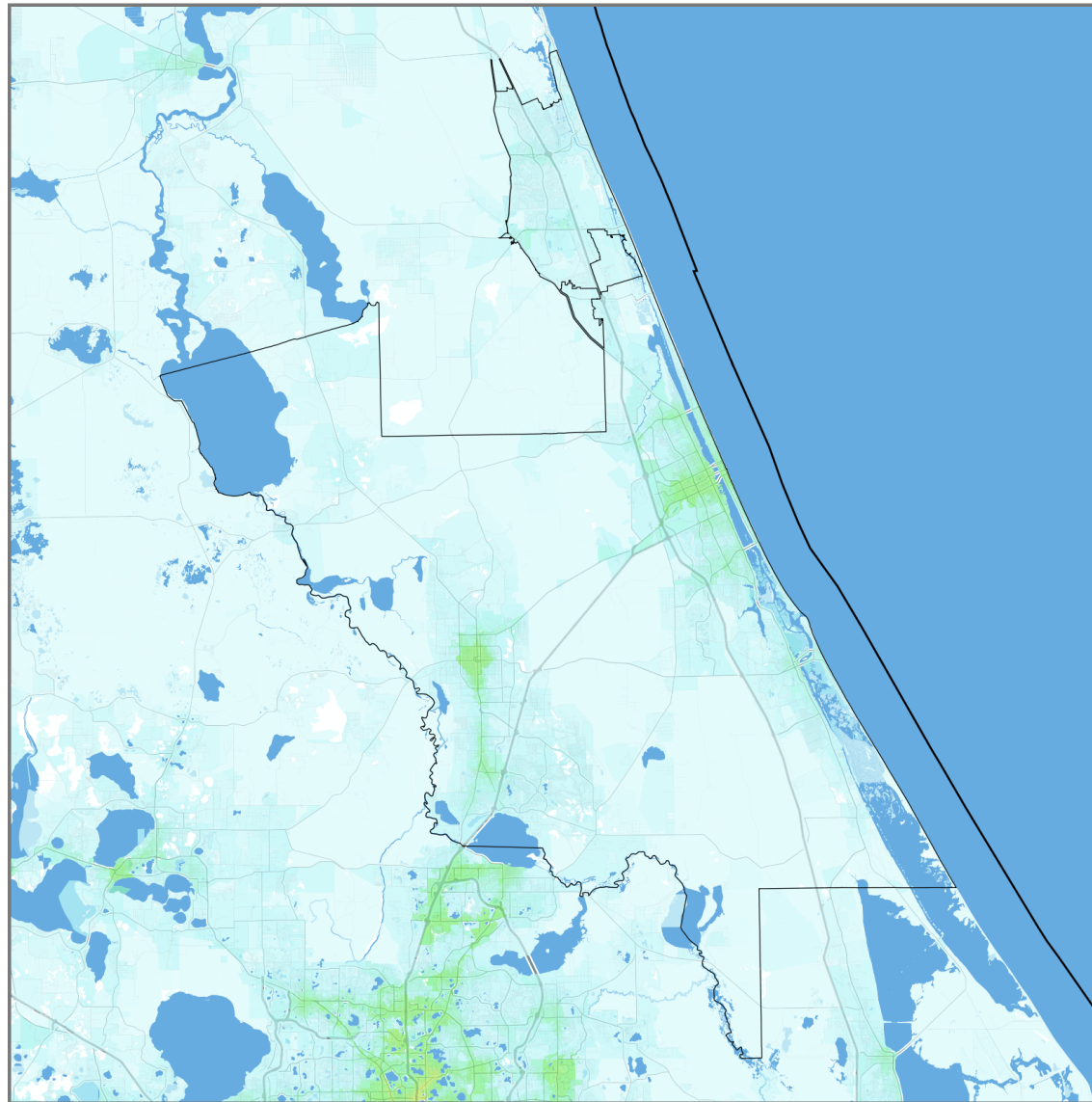


*Beginning in data year 2018, federal jobs and federal workers are not included due to changes in underlying datasets from the U.S. Census Bureau. As a result, comparisons between 2017 and 2018 accessibility results are less accurate in areas where federal employment is a greater share of total employment.

Transit Schedules Included

Agency	Dates
Florida Department of Transportation	July 30, 2018 - December 31, 2019
Votran	December 21, 2016 - December 31, 2017

River to Sea Transportation Planning Organization



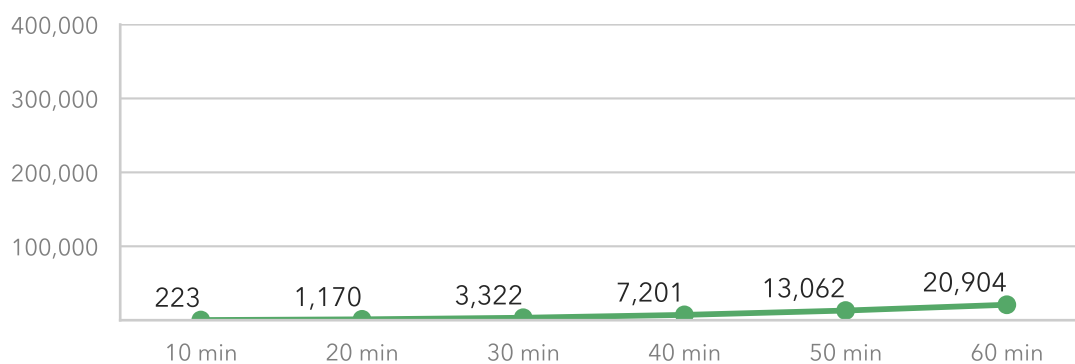
Sarasota-Manatee MPO

Job Accessibility Results—Transit, 2018

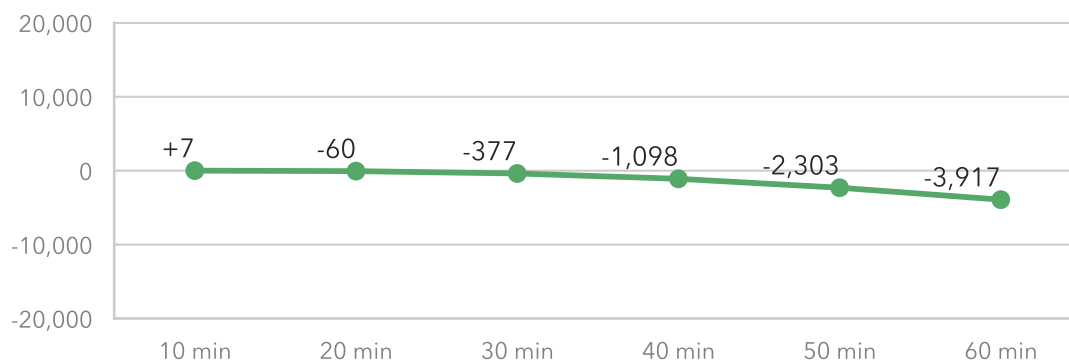
1-Year Change in Weighted Accessibility	-11.29%
Total Jobs	276,923
Average Job Density (per mi ²)	537
Total Workers	289,348
Average Worker Density (per mi ²)	561

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)*



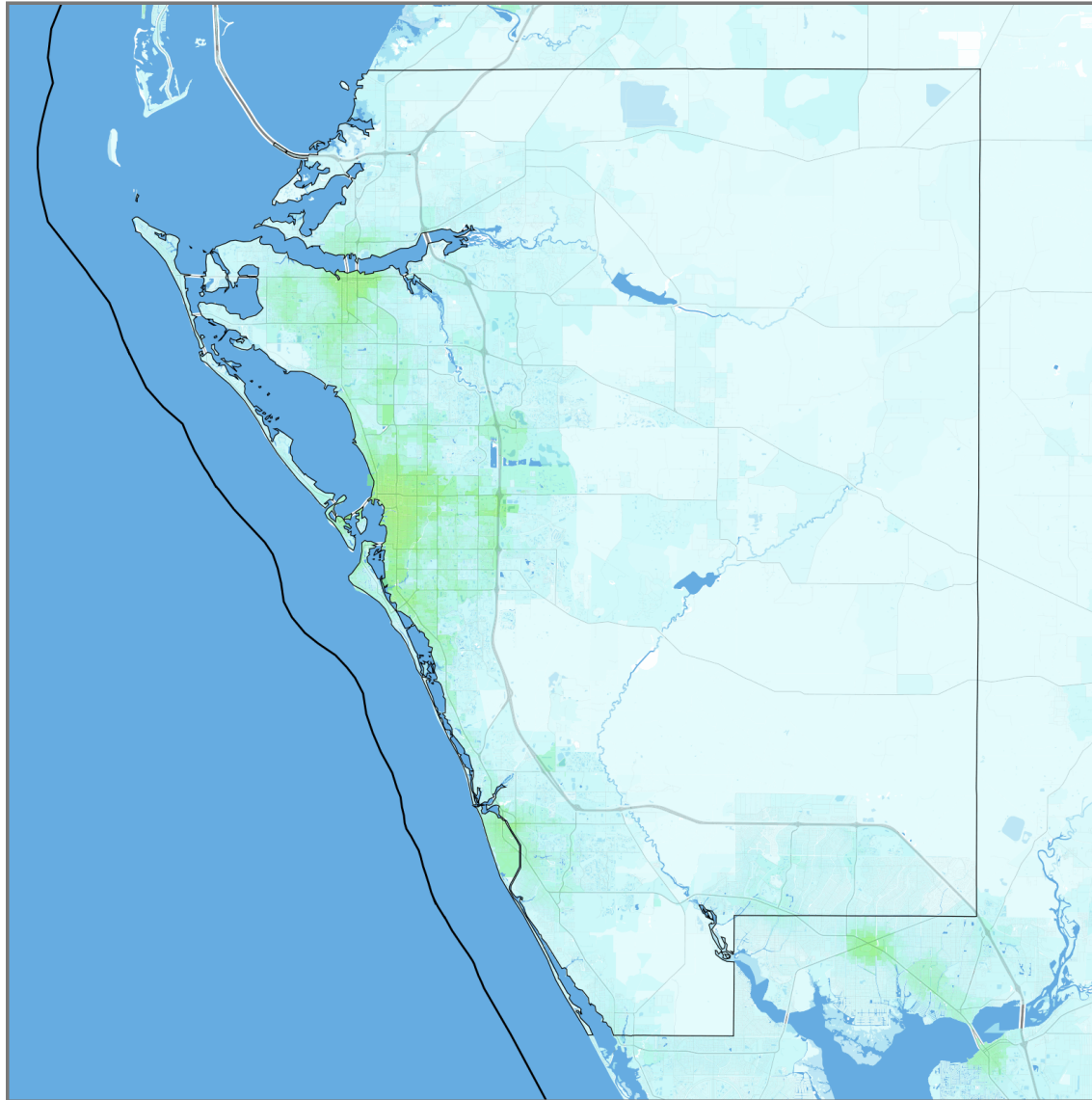
*Beginning in data year 2018, federal jobs and federal workers are not included due to changes in underlying datasets from the U.S. Census Bureau. As a result, comparisons between 2017 and 2018 accessibility results are less accurate in areas where federal employment is a greater share of total employment.

Transit Schedules Included

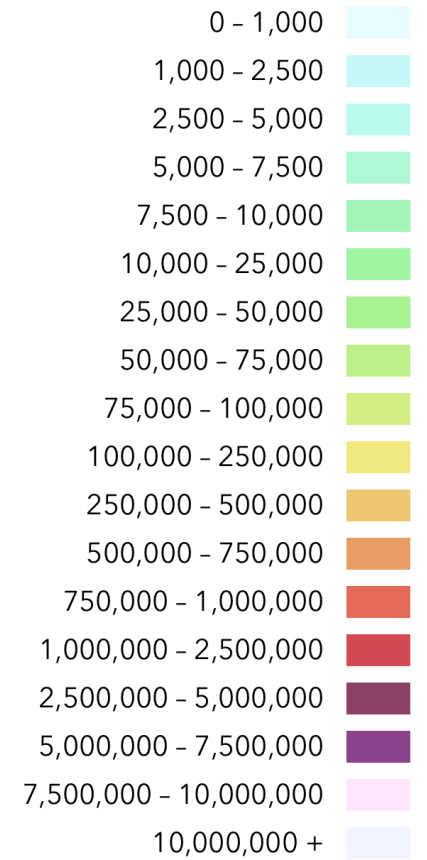
Agency	Dates
Manatee County Area Transit	April 15, 2017 - January 1, 2020
Sarasota County Area Transit	March 17, 2018 - December 28, 2018

Sarasota-Manatee MPO

80



Jobs within 30 minutes
(Transit, AM peak)



State border —
MPO boundary —

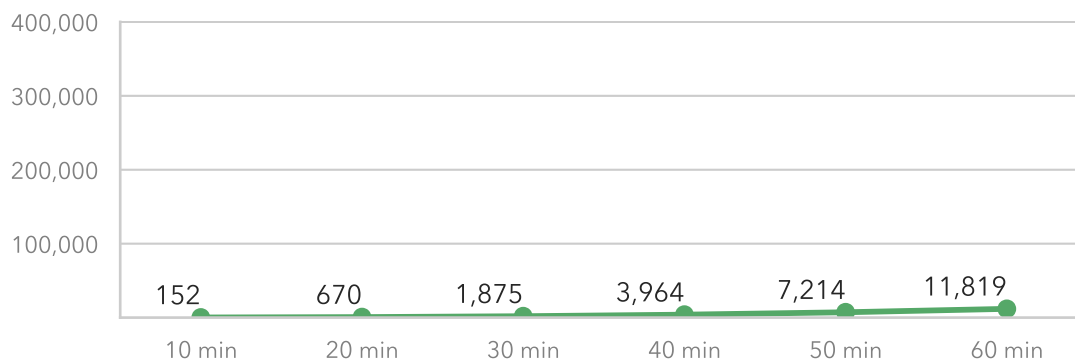
Space Coast Transportation Planning Organization

Job Accessibility Results—Transit, 2018

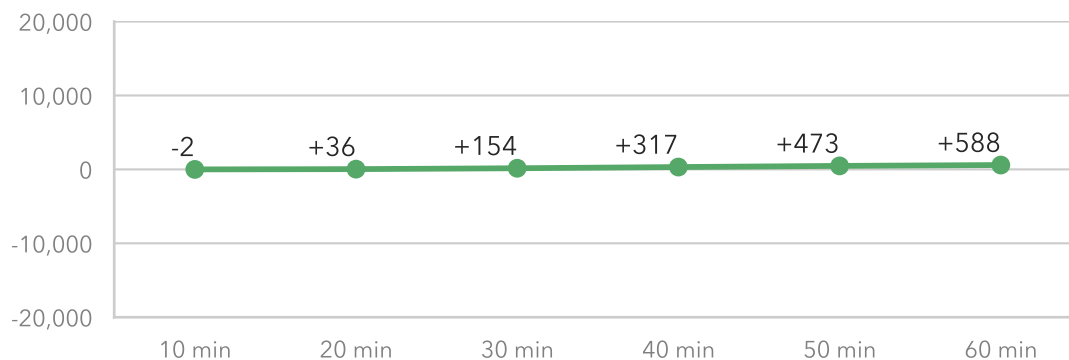
1-Year Change in Weighted Accessibility	+6.39%
Total Jobs	195,271
Average Job Density (per mi ²)	474
Total Workers	220,681
Average Worker Density (per mi ²)	536

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)*

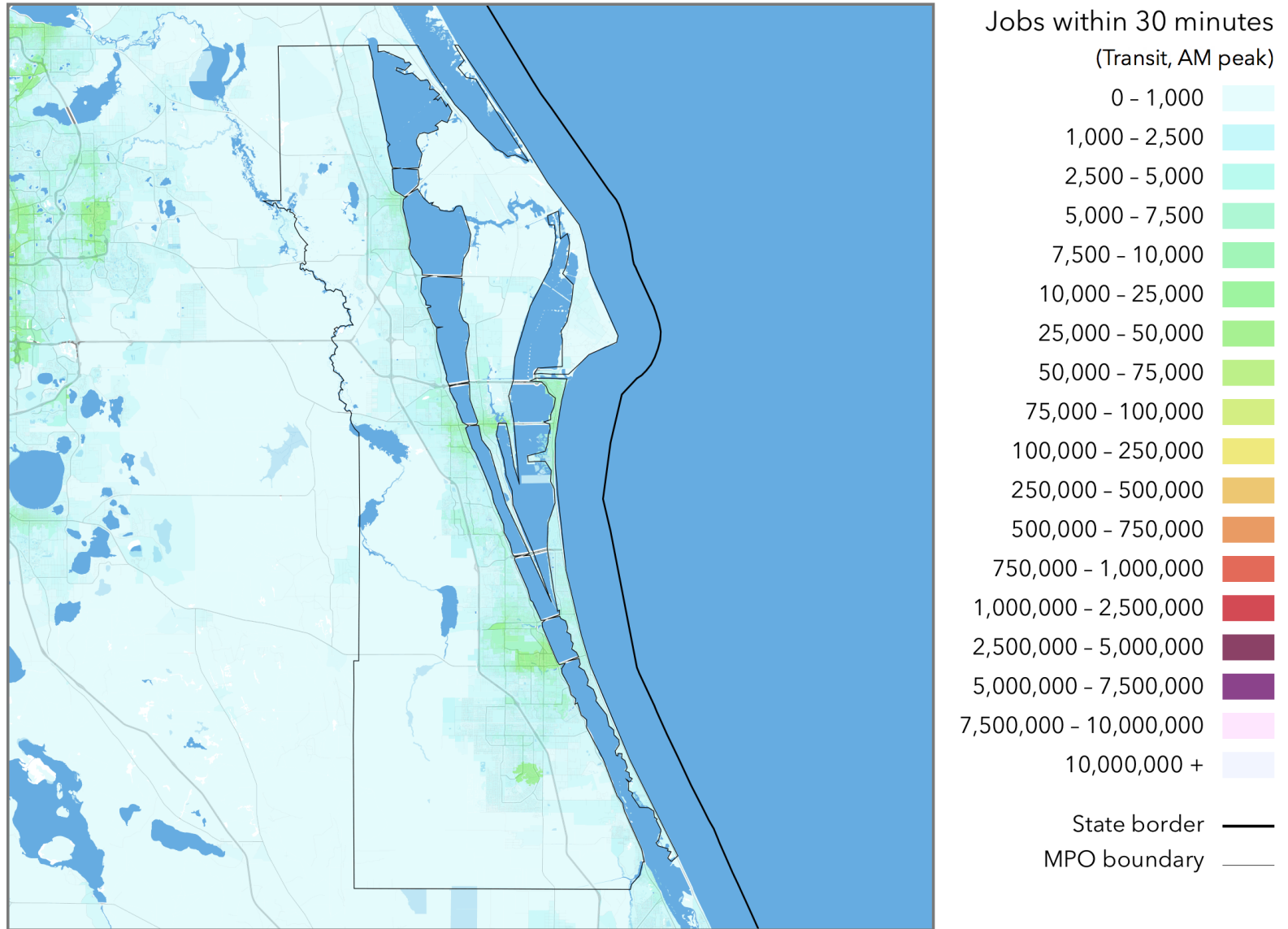


*Beginning in data year 2018, federal jobs and federal workers are not included due to changes in underlying datasets from the U.S. Census Bureau. As a result, comparisons between 2017 and 2018 accessibility results are less accurate in areas where federal employment is a greater share of total employment.

Transit Schedules Included

Agency	Dates
Space Coast Area Transit	October 4, 2017 - January 1, 2020

Space Coast Transportation Planning Organization



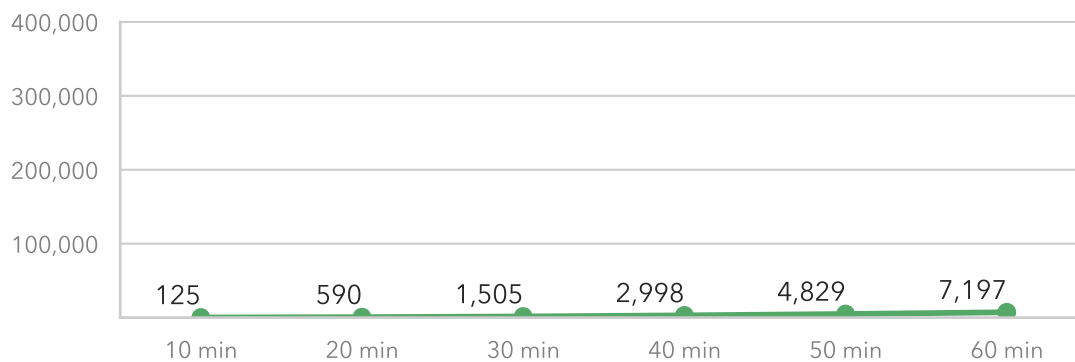
St. Lucie Transportation Planning Organization

Job Accessibility Results—Transit, 2018

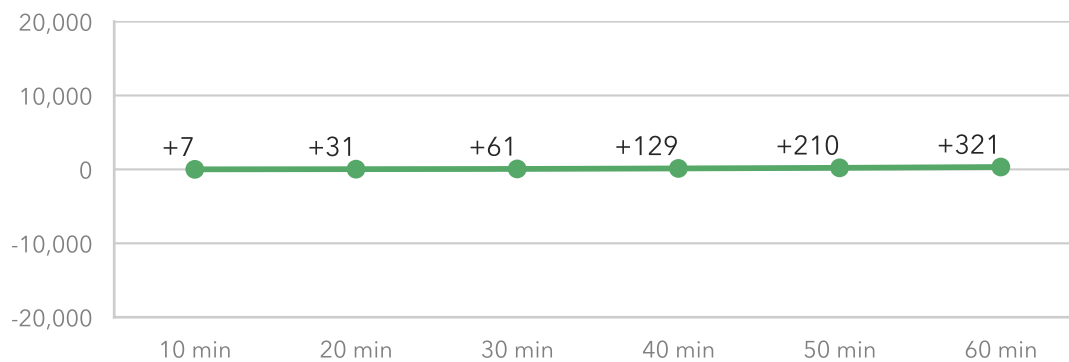
1-Year Change in Weighted Accessibility	+4.80%
Total Jobs	73,818
Average Job Density (per mi ²)	329
Total Workers	111,489
Average Worker Density (per mi ²)	498

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)*



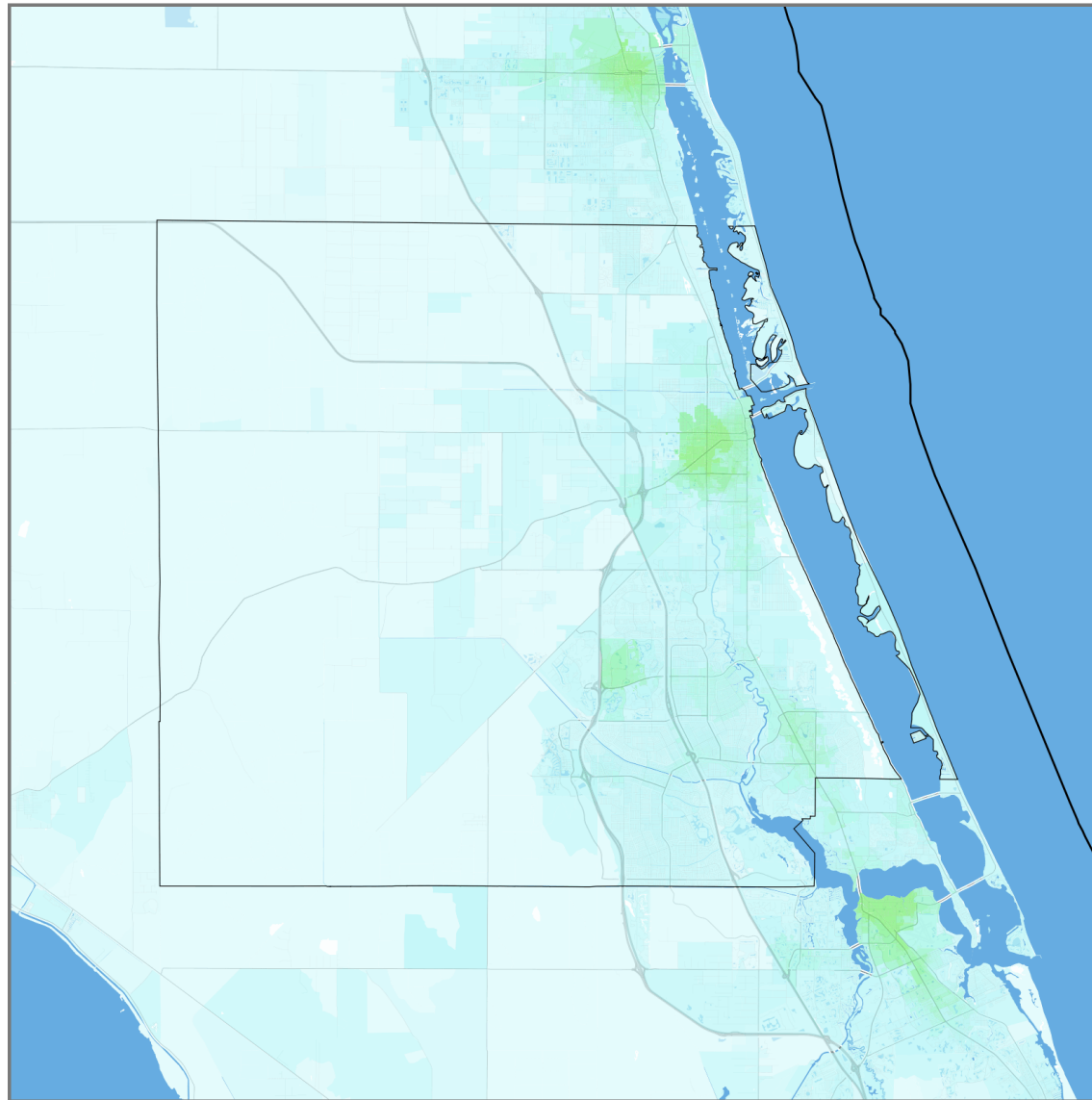
*Beginning in data year 2018, federal jobs and federal workers are not included due to changes in underlying datasets from the U.S. Census Bureau. As a result, comparisons between 2017 and 2018 accessibility results are less accurate in areas where federal employment is a greater share of total employment.

Transit Schedules Included

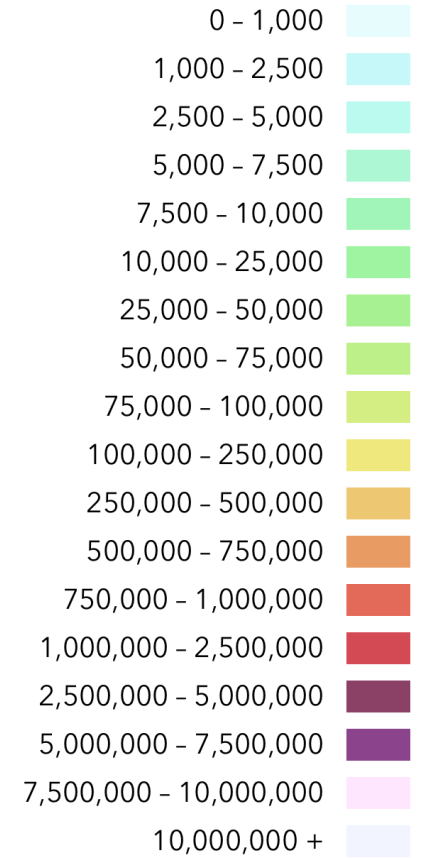
Agency	Dates
Martin County Public Transit	May 1, 2013 - December 31, 2014
Treasure Coast Connector	May 18, 2015 - December 31, 2015

St. Lucie Transportation Planning Organization

98



Jobs within 30 minutes
(Transit, AM peak)



State border

MPO boundary

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	367	2,543	8,528	17,569	28,840	40,861
Baker	58	228	481	806	1,116	1,451
Bay	160	799	2,206	4,360	7,321	10,957
Bradford	69	262	519	741	935	1,128
Brevard	152	670	1,875	3,963	7,209	11,806
Broward	405	2,752	10,165	26,889	56,796	103,765
Calhoun	61	133	224	341	478	596
Charlotte	89	456	1,135	2,153	3,354	4,724
Citrus	40	168	389	696	1,095	1,570
Clay	166	511	1,231	2,189	3,362	4,655
Collier	182	747	2,016	4,166	7,471	12,199
Columbia	100	390	883	1,460	2,055	2,720
DeSoto	116	471	985	1,474	1,852	2,173
Dixie	30	92	143	185	220	299
Duval	347	1,663	5,318	13,430	27,797	48,625
Escambia	210	1,259	3,799	8,463	15,431	24,827
Flagler	43	125	327	640	1,076	1,614
Franklin	81	222	381	499	579	650
Gadsden	87	258	476	705	921	1,106
Gilchrist	33	89	163	222	276	332
Glades	35	86	132	214	265	346
Gulf	64	180	317	448	561	640
Hamilton	29	127	217	275	320	520
Hardee	85	353	604	869	1,076	1,246
Hendry	160	654	1,152	1,499	1,899	2,274
Hernando	67	327	860	1,748	2,999	4,653
Highlands	87	313	640	1,058	1,525	1,946
Hillsborough	401	2,486	8,379	20,538	40,826	69,263
Holmes	25	116	201	277	351	408
Indian River	116	545	1,270	2,295	3,602	5,240
Jackson	79	279	509	766	1,004	1,257
Jefferson	26	66	118	174	214	238
Lafayette	38	100	126	170	234	278
Lake	129	471	1,140	2,179	3,606	5,461
Lee	164	890	2,511	5,216	9,194	14,759
Leon	239	1,638	5,500	13,285	25,106	39,537
Levy	32	105	193	263	345	436
Liberty	82	117	153	204	248	291

Table 26: (continued)

Madison	72	224	415	544	659	753
Manatee	196	907	2,268	4,531	7,934	12,546
Marion	107	471	1,302	2,683	4,540	6,836
Martin	188	683	1,698	3,166	5,117	7,516
Miami-Dade	1,222	7,627	24,887	60,525	116,936	196,395
Monroe	399	1,474	2,602	3,848	5,124	6,407
Nassau	79	287	655	1,023	1,400	1,757
Okaloosa	204	973	2,536	4,787	7,462	10,452
Okeechobee	75	315	695	1,132	1,569	2,021
Orange	443	2,496	7,856	19,087	39,468	71,767
Osceola	152	697	2,043	4,456	8,876	17,375
Palm Beach	307	1,749	5,582	13,214	25,970	45,308
Pasco	126	462	1,315	2,924	5,492	9,003
Pinellas	454	2,808	9,433	22,296	43,027	72,686
Polk	163	809	2,198	4,350	7,530	11,603
Putnam	83	289	603	995	1,448	1,934
Santa Rosa	93	268	612	1,094	1,730	2,478
Sarasota	250	1,426	4,348	9,805	18,065	29,063
Seminole	218	1,106	3,380	7,884	15,803	28,828
St. Johns	190	525	1,155	2,176	3,530	5,053
St. Lucie	124	589	1,504	2,995	4,826	7,195
Sumter	60	240	574	1,134	1,821	2,558
Suwannee	64	254	475	722	915	1,141
Taylor	59	246	516	822	1,121	1,425
Union	53	158	223	284	342	416
Volusia	157	832	2,312	4,905	8,759	13,728
Wakulla	30	90	187	337	469	617
Walton	107	194	354	601	927	1,333
Washington	41	234	416	593	750	873

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 OpenStreetMap road network data. GTFS data are included wherever feeds are made available by transit agencies, and the targeted service date for analysis was January 24th, 2018, 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.

Transit Schedules Included

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	December 28, 2017 - April 21, 2018
Collier Area Transit - CAT	April 5, 2017 - December 31, 2017
Emerald Coast Rider	July 1, 2015 - July 1, 2016
Escambia County Area Transit	August 1, 2015 - January 1, 2020
Florida Department of Transportation	July 30, 2018 - December 31, 2019
Hillsborough Area Regional Transit	October 8, 2017 - June 30, 2018
I-RIDE Trolley	January 1, 2018 - December 31, 2019
Jacksonville Transportation Authority	December 4, 2017 - August 5, 2018
Key West Transit	January 1, 2018 - January 1, 2020
Lake County	April 24, 2017 - April 20, 2020
Lakeland	January 5, 2018 - July 9, 2018
Lee County Transit	February 5, 2018 - April 11, 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	December 13, 2017 - May 12, 2018
Pasco County Public Transportation	December 18, 2017 - January 1, 2020
Pinellas Suncoast Transit Authority	October 1, 2017 - June 2, 2018
Polk County Transit Services	July 3, 2015 - December 31, 2015
Regional Transit System	August 14, 2017 - August 19, 2018
SFRTA/Tri-Rail	April 20, 2012 - December 31, 2024
Sanford Community Redevelopment Agency	January 1, 2018 - December 31, 2018
Sarasota County Area Transit	March 17, 2018 - December 28, 2018

Space Coast Area Transit	October 4, 2017 - January 1, 2020
StarMetro	March 4, 2017 - January 5, 2020
Sumter County Transit	January 1, 2013 - December 31, 2018
SunTran (City of Ocala)	July 1, 2015 - May 31, 2020
Sunshine Bus Company	July 1, 2015 - January 1, 2020
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	December 21, 2016 - December 31, 2017
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 2016, the most recent available as of this writing.

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 2017 Data

This analysis uses the same tools, techniques and study scale as the *Access Across America: Transit 2015, 2016, 2017* reports. GTFS data are now sufficiently consistent to allow for year to year comparisons of transit accessibility. However, beginning in data year 2018, federal jobs and federal workers are not included due to changes in underlying datasets from the U.S. Census Bureau. As a result, comparisons between 2017 and 2018 accessibility results are less accurate in areas where federal employment is a greater share of total employment.