



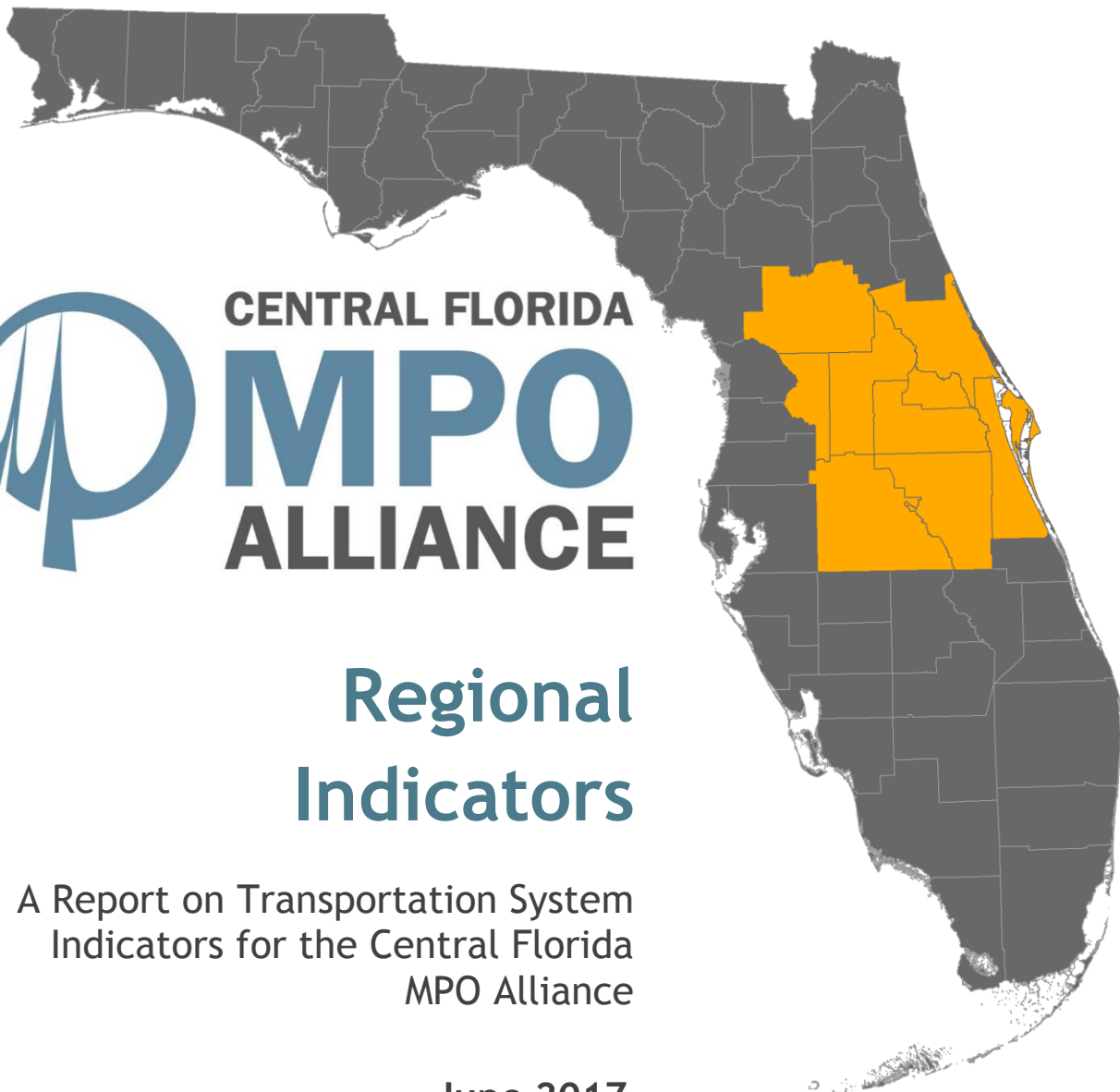
**CENTRAL FLORIDA**  
**MPO**  
**ALLIANCE**

## **Regional Indicators**

A Report on Transportation System  
Indicators for the Central Florida  
MPO Alliance

**June 2017**

**[www.cfmpoa.org](http://www.cfmpoa.org)**



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## Executive Summary

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Transportation is a critical part of our lives. The quality of life and the economic vitality of our communities depend on an individual's access to work, education, health services and other destinations. The condition of our roads, walkways, transit, runways, and other transportation features directly affects the well-being of our businesses, residents, and visitors alike.

The Central Florida Metropolitan Planning Organization Alliance (CFMPOA) is a coalition of Metropolitan Planning Organizations (MPOs) and Transportation Planning Organizations (TPOs) committed to addressing transportation challenges on a regional basis. The purpose of this report is to provide an overview of the transportation system within the CFMPOA region and how they are affected by conditions such as the economy, population growth, technology, travel behavior, and funding. The goal is to identify key factors and emerging trends that impact Central Florida's transportation needs.

### Methodology

This report was prepared by MetroPlan Orlando staff to establish a foundation of data to inform future policy decisions. The Regional Indicators report includes the latest data and information available at the time of publication for the various indicators used to measure transportation system activity over a five-year period. The beginning and ending years may vary for different indicators, depending on the data available.

Data was provided by several local and state agencies, including the Florida Department of Transportation, Florida's Turnpike Enterprise, and the Florida Department of Highway Safety and Motor Vehicles. Additional information was provided by Florida Department of Environmental Protection, the Florida Department of Business and Professional Regulation, and the Florida Department of Revenue.

Local agencies that provided information include the Central Florida Expressway Authority (CFX), Central Florida Regional Transportation Authority (LYNX), LakeExpress, Space Coast Area Transit, Votran, Citrus Connection, Polk County Transit Services, Sun Tran, Greater Orlando Aviation Authority, Sanford Airport Authority, Kissimmee Gateway Airport, Melbourne International Airport, and the Daytona Beach International Airport. The Federal Aviation Administration, Amtrak, the U.S. Census Bureau, the University of Florida's Bureau of Economic and Business Research, the Florida Agency for Workforce Innovation, the Texas Transportation Institute, Space Florida and the Canaveral Port Authority provided additional information.

The CFMPOA would like to express appreciation to all these agencies for their assistance. The material contained in this report may be freely quoted with appropriate acknowledgement.

### Key Findings

The 2012-2016 Regional Indicators report identifies several major trends and travel implications for the CFMPOA region. These include a growing and more diversified population; increasing visitor impact; aging infrastructure; concerns with pedestrian and bicyclist safety; and volatile revenues. This Executive Summary outlines the areas addressed in *Regional Indicators* and highlights some key findings.

### *Demographics*

As of 2016, the population of the CFMPOA region had grown to 4,550,994, a 1.5 percent increase over 2015. The State of Florida saw a 5.6 percent increase in population growth from 2012 to 2016, whereas, the CFMPOA region saw a 7.3 percent increase in population during the same time period. (Chapter 1)

The CFMPOA region continues to see signs of economic recovery. Unemployment rates saw a 7 percent decrease from 2015 to 2016. Looking at a five year trend, the region saw a 40 percent decrease in unemployment rate from 2012 to 2016.

### *Visitor Impact*

Central Florida's major airports and seaport reported an increase in passenger counts, which reflects healthy tourism in the state. The area airports experienced an 8.2 percent increase in passenger counts from 2015 to 2016. (Chapter 5)

### *Travel Trends*

The region saw a 5.5 percent increase in gasoline consumption in FY 2015/16 from the previous year. This can be attributed to increase in employment levels, increase in registered vehicles and most importantly a decrease in fuel prices. The region also saw an increase in traffic counts for all its major roads. (Chapter 2)

### *Health and Safety*

Safety continues to be a factor that needs improvement in our transportation system. The area continues to experience an increase in vehicular crashes. In 2016, Automobile crashes increased by 5.5 percent, along with a 5.8 percent increase in pedestrian fatalities and a 15.8 percent increase in automobile fatalities from the previous year.

However, the area also has recorded some improvements in safety numbers. Pedestrian injuries and bicycle injuries saw a decrease in 2016. Pedestrian injuries have seen a decrease by 2.2 percent; while bicycle injuries decreased by 9.7 percent and bicyclist fatalities remained the same.

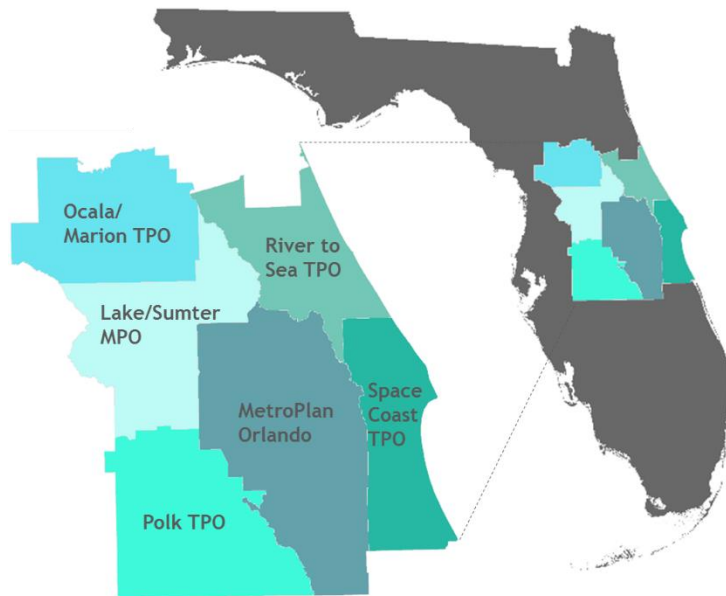
The quality of a region's transportation system can have direct effects on air quality which in turn determines quality of health for the populace. In 2015, the federal Environmental Protection Agency (EPA), changed the standard for ozone from 75 parts per billion to 70 parts per billion averaged over any eight hour period. The 2016 eight hour three year average for the CFMPOA region is 64 parts per billion, which designates the region as in attainment for ozone. (Chapter 3)

## About Us

The Central Florida Metropolitan Planning Organization (MPO) Alliance is a coalition of transportation and government organizations committed to addressing transportation challenges on a regional basis. The group is made up of representatives from the nine-county Central Florida region.

The Alliance has a policy board of eighteen members, three from each of the six member organizations. Representatives from the Florida Department of Transportation participate as well. The group meets quarterly and operates on the basis of consensus. Staff support is provided by MetroPlan Orlando.

The Central Florida MPO Alliance has established goals and is seeking to maximize all opportunities presented by a regional transportation forum.



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## Chapter 1: Regional Profile

The Central Florida MPO Alliance, which consists of Brevard, Lake, Marion, Orange, Osceola, Polk, Seminole, Sumter, and Volusia Counties, has continuously grown throughout the years. Historically, the area's economy has largely been centered on the health care and social services, retail trade, and accommodations and food services sectors. The medical and high tech industries have had a strong presence in the area with employers such as Florida Hospital, Adventist Health, Orlando Health, Health First, Halifax Health, Harris Corporation, United Space Alliance, and Lockheed Martin. Other major employers include Wal-Mart and Publix Supermarkets as well as Walt Disney and Universal Studios.

### Population

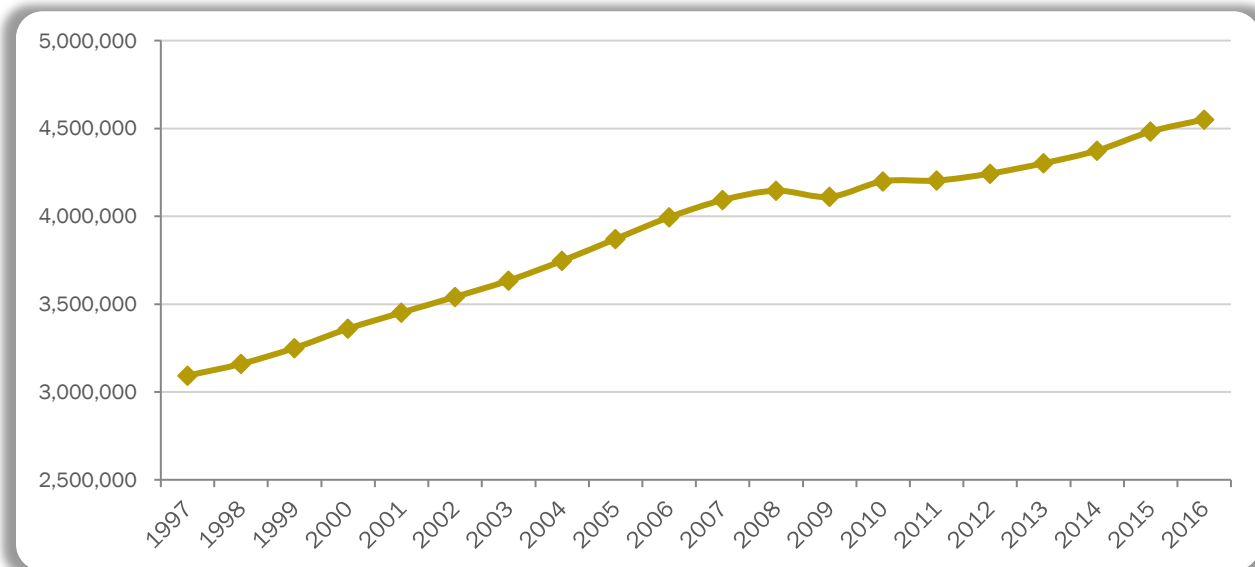
The CFMPOA region saw its highest population growth between 2000 and 2007 with an average 3 percent growth per year. The economic recession slowed growth but the area is still experiencing a 1.5 to 2 percent population growth every year. This table shows population figures for the counties within the CFMPOA region from 2012 through 2016.

Population	CY 2012	CY 2013	CY 2014	CY 2015	CY 2016
Brevard County	545,109	547,898	552,176	561,714	568,701
Lake County	298,707	302,247	308,679	316,569	323,210
Marion County	328,032	329,442	331,813	341,205	340,354
Orange County	1,172,493	1,199,627	1,224,849	1,252,396	1,277,418
Osceola County	280,461	288,046	295,235	308,327	322,535
Polk County	603,534	610,650	619,860	633,052	643,966
Seminole County	427,974	430,916	436,926	442,903	449,012
Sumter County	91,480	96,354	102,724	115,657	110,283
Volusia County	495,333	497,100	501,901	510,494	515,515
<b>CFMPOA Region</b>	<b>4,243,123</b>	<b>4,302,280</b>	<b>4,374,163</b>	<b>4,482,317</b>	<b>4,550,994</b>

*Source:* University of Florida, Bureau for Economic and Business Research (BEBR); excludes inmates

### Historic Population Overview for the CFMPOA Region

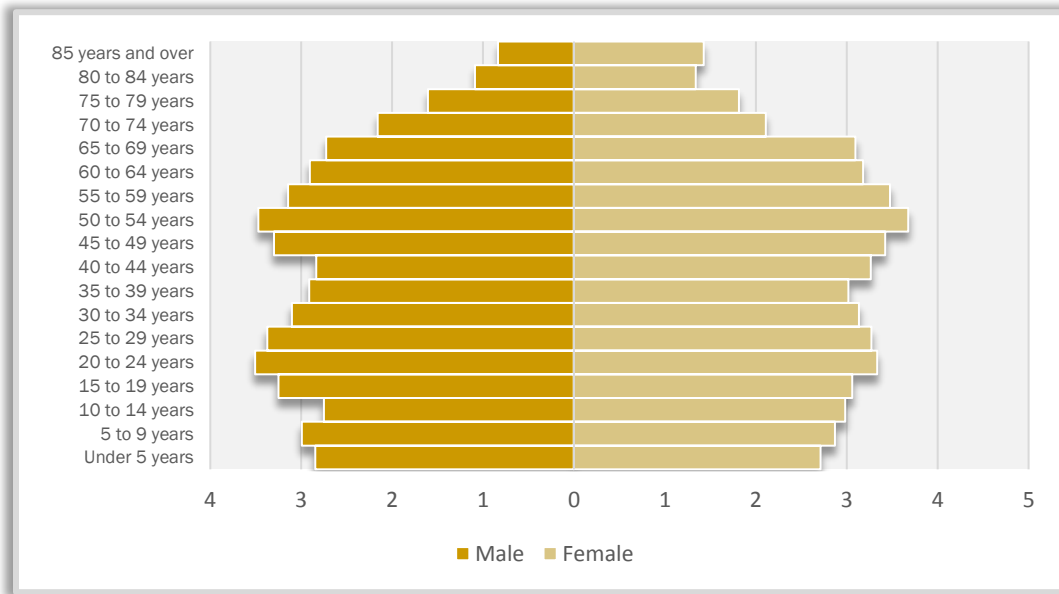
This graph illustrates the 20-year population trend total for Brevard, Lake, Marion, Orange, Osceola, Polk, Seminole, Sumter, and Volusia Counties – the CFMPOA region.



*Source:* University of Florida, Bureau for Economic and Business Research (BEBR); excludes inmates

### CFMPOA Area Population by Age Group

This pyramid shows the percentage of males and females by age group for the CFMPOA Area population. For both genders, the population in our area is largely young and middle-aged adults.



Source: U.S. Census Bureau - American Community Survey, *General Population and Housing Characteristics: 2013*

### Employment Levels

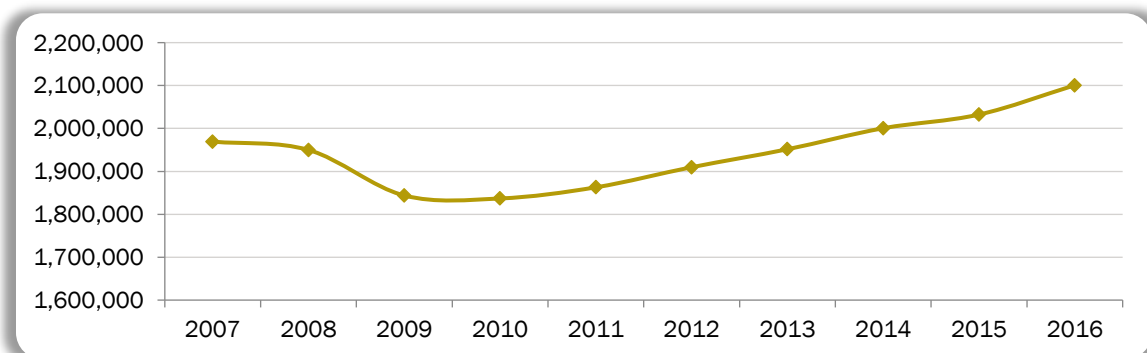
Employment rates affect congestion on our roadways. In theory, the higher the employment rate, the more vehicles on the road. This increase may cause congestion and longer travel times. The following tables show the number of employed and unemployed persons living in the CFMPOA area from 2012 through 2016.

Persons Employed	CY 2012	CY 2013	CY 2014	CY 2015	CY 2016
Brevard County	238,006	237,243	240,053	240,892	248,452
Lake County	122,221	125,448	129,577	132,924	137,432
Marion County	117,156	119,860	122,077	121,631	124,939
Orange County	600,337	618,183	637,418	651,088	674,290
Osceola County	129,997	136,204	142,484	148,075	153,357
Polk County	250,494	255,813	258,599	262,041	268,867
Seminole County	212,492	217,446	222,709	224,808	232,991
Sumter County	24,032	25,021	25,925	26,409	27,187
Volusia County	214,910	216,335	221,705	224,522	233,098
<b>CFMPOA Region</b>	<b>1,909,645</b>	<b>1,951,553</b>	<b>2,000,547</b>	<b>2,032,390</b>	<b>2,100,613</b>

Source: Florida Research and Economic Database, Local Area Employment Statistics (LAUS)

### Historic Employment Overview for the CFMPOA Region

This graph illustrates the 10-year employment trend total for the CFMPOA region.



## Unemployment

As the impacts of the economic recession wear off, the CFMPOA region saw large decreases in unemployment levels. From 2012 to 2016, the region experienced a 40 percent decrease in the unemployment rate. This table shows the unemployment rate in the CFMPOA area from 2012 through 2016:

Unemployment Rate	CY 2012	CY 2013	CY 2014	CY 2015	CY 2016
Brevard County	9.3	7.9	6.9	5.8	5.2
Lake County	9.1	7.5	6.4	5.3	4.9
Marion County	10.0	8.3	7.3	6.3	5.8
Orange County	8.5	6.8	5.8	4.9	4.4
Osceola County	9.4	7.5	6.7	5.6	5.0
Polk County	9.7	8.2	7.1	6.1	5.6
Seminole County	7.9	6.4	5.6	4.8	4.3
Sumter County	7.0	5.9	7.7	7.1	7.0
Volusia County	8.9	7.3	6.7	5.7	5.1
<b>CFMPOA Region</b>	<b>8.9</b>	<b>7.3</b>	<b>6.7</b>	<b>5.7</b>	<b>5.3</b>

Source: Florida Research and Economic Database, *Local Area Employment Statistics (LAUS)*

## Hotel / Motel Rooms

Both leisure and business/convention travel are important components of the region's economy. As a result, there are a large number and variety of hotels and motels. This table shows the number of hotel/motel rooms in the CFMPOA region from 2012 through 2016:

Room Capacity	FY 2011/12	FY 2012/13	FY 2013/14	FY 2014/15	FY 2015/16
Brevard County	9,181	9,312	9,277	9,195	9,335
Lake County	2,989	2,995	2,995	2,731	2,752
Marion County	3,954	4,055	4,042	4,038	4,049
Orange County	86,007	86,571	87,662	87,717	89,333
Osceola County	24,921	25,115	24,435	24,155	24,365
Polk County	6,803	6,931	7,036	7,264	7,296
Seminole County	5,159	4,989	5,226	5,054	4,637
Sumter County	770	770	770	770	763
Volusia County	11,911	11,755	11,840	11,748	11,441
<b>CFMPOA Region</b>	<b>151,695</b>	<b>152,493</b>	<b>153,283</b>	<b>152,672</b>	<b>153,971</b>

Source: FL Department of Business and Professional Regulation, *Count of Active Licenses and Seats/Units by Type and FL County; excludes Transient/ Non-transient apartments, Bed & Breakfast and Vacation Rentals*



## Licensed Drivers

The number of licensed drivers in the area is another indicator of traffic congestion levels. This table shows how many licensed drivers were in the CFMPOA region from 2012 through 2016:

Licensed Drivers	CY 2012	CY 2013	CY 2014	CY 2015	CY 2016
Brevard County	456,251	455,380	455,253	461,360	470,953
Lake County	247,764	249,442	248,163	255,122	265,217
Marion County	274,512	273,572	274,496	276,640	281,386
Orange County	883,215	893,288	908,946	928,131	962,251
Osceola County	228,454	233,733	237,620	245,503	258,873
Polk County	444,340	444,664	448,811	456,056	470,067
Seminole County	341,598	341,747	341,427	346,574	354,353
Sumter County	77,776	81,456	84,735	89,202	93,455
Volusia County	403,957	402,340	402,025	406,686	415,075
<b>CFMPOA Region</b>	<b>3,357,867</b>	<b>3,375,622</b>	<b>3,401,476</b>	<b>3,465,274</b>	<b>3,571,630</b>

Source: Florida Department of Highway Safety and Motor Vehicle, *Vehicle and Vessel Reports and Statistics*

## Registered Vehicles

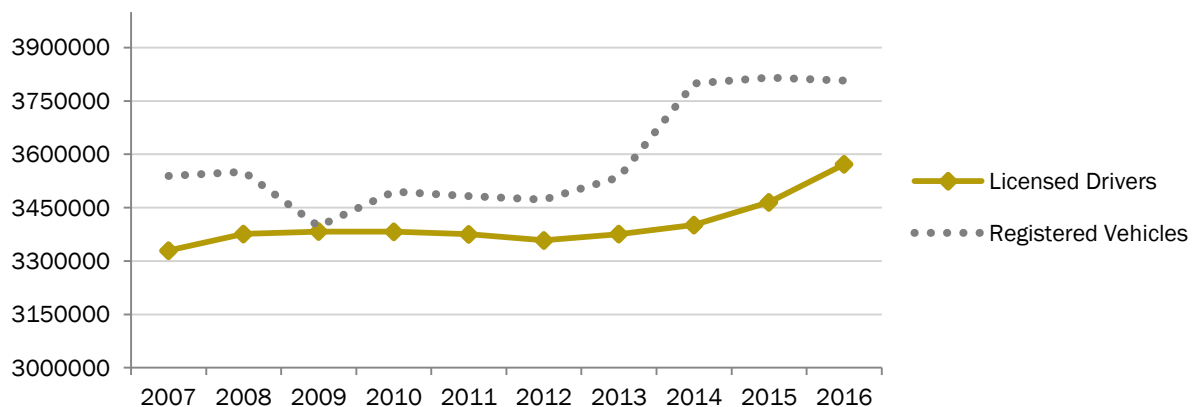
Another indicator that can be used to measure traffic congestion is the change in the number of vehicles on the road. The following table illustrates the number of registered motor vehicles in the CFMPOA region from FY 2012 through FY 2016:

Registered Vehicles	2011/12	2012/13	2013/14	2014/15	2015/16
Brevard County	463,399	466,949	472,676	485,603	499,872
Lake County	248,331	251,548	256,587	269,025	281,119
Marion County	267,009	270,027	281,690	279,993	288,370
Orange County	951,239	1,064,468	1,137,457	1,206,787	1,101,998
Osceola County	205,232	211,717	220,068	234,599	250,928
Polk County	440,202	446,088	460,544	470,128	490,066
Seminole County	412,258	335,248	340,961	349,679	358,428
Sumter County	70,903	73,728	79,631	84,068	85,034
Volusia County	410,196	415,822	423,482	435,638	451,148
<b>CFMPOA Region</b>	<b>3,468,769</b>	<b>3,535,595</b>	<b>3,673,096</b>	<b>3,815,520</b>	<b>3,806,963</b>

Source: Florida Department of Highway Safety and Motor Vehicle, *Vehicle and Vessel Reports and Statistics*

## Historic Comparison: Licensed Drivers and Registered Vehicles for the CFMPOA Region

This graph illustrates the 10-year comparison of licensed drivers and registered vehicles for Brevard, Lake, Marion, Orange, Osceola, Polk, Seminole, Sumter, and Volusia Counties – the CFMPOA region.



Source: Florida Department of Highway Safety and Motor Vehicle, *Vehicle and Vessel Reports and Statistics*

## Chapter 2: Highway Statistics

Due to the region's steady population growth and development patterns in the past few decades, the private (and in many cases the single-occupant) automobile is the predominant mode of transportation. Several factors -- including time-of-day, travel demand, and multi-year construction delays -- have led to increased congestion throughout the CFMPOA region.

### Local Road Mileage (Paved Centerline Miles)

Centerline miles represent the total length of a given road from its starting point to its end point regardless of the pavement width or number of lanes. This table shows the change in the number of miles of paved local roads in the CFMPOA region over the 2011-2015 timeframe. The numbers in the table reflect the centerline miles of paved roads, this information is collected annually from local governments by FDOT.

Local Road Mileage	2011	2012	2013	2014	2015
Brevard County	2,799.6	2,885.9	2,887.1	2,892.3	2,959.4
Lake County	1,971.7	1,971.6	1,975.6	1,986.4	1,945.1
Marion County	2,999.0	3,025.2	3,028.6	3,049.0	3,051.3
Orange County	3,965.8	3,982.7	4,001.3	4,031.4	4,086.5
Osceola County	1,173.0	1,174.1	1,176.1	1,190.6	1,213.4
Polk County	3,571.6	3,607.8	3,625.3	3,621.9	3,626.5
Seminole County	1,479.7	1,476.8	1,486.0	1,496.4	1,495.7
Sumter County	811.1	808.3	827.0	856.5	907.6
Volusia County	2,854.7	2,854.0	2,868.0	2,866.0	2,902.3
<b>CFMPOA Region</b>	<b>21,626.2</b>	<b>21,786.4</b>	<b>21,875.0</b>	<b>21,990.5</b>	<b>22,187.8</b>

Source: Florida Department of Transportation, *Florida Highway Mileage Reports - City and County Roads*

### State Road Mileage (Lane Miles)

Another indicator of the change in the amount of travel for the MPOs and TPOs in the CFMPOA region is the corresponding change in roadway lane mileage. Lane miles are calculated by multiplying the centerline mileage of a road by the number of lanes it has. Lane mileage provides the total amount of mileage covered by lanes belonging to a specific road. The lane miles of state roads in Brevard, Lake, Marion, Orange, Osceola, Polk, Seminole, Sumter, and Volusia Counties -- from 2012 through 2016-- are shown in the tables below. These have been divided into interstate facilities (such as I-4, I-75, and I-95); toll roads (such as SR 417, SR 528, and Florida's Turnpike); and other state roads (such as SR 50, SR 46, and SR 436).

MetroPlan Orlando	CY 2012	CY 2013	CY 2014	CY 2015	CY 2016
Interstate	311.6	311.6	311.6	311.6	310.9
Toll Roads	1,090.9	1,113.6	1,114.9	1,122.8	1,124.8
Other State Roads	1,764.6	1,768.4	1,779.7	1,783.5	1,784.8
Total	3,167.1	3,193.6	3,206.2	3,217.9	3,220.5

Lake-Sumter MPO	CY 2012	CY 2013	CY 2014	CY 2015	CY 2016
Interstate	130.4	130.4	130.4	130.4	130.4
Toll Roads	138.6	138.6	138.6	138.6	147.0
Other State Roads	903.0	903.0	904.9	906.0	906.0
Total	1,172.0	1,172.0	1,173.9	1,175.0	1,183.4

Space Coast TPO	CY 2012	CY 2013	CY 2014	CY 2015	CY 2016
Interstate	355.6	355.6	384.8	409.9	436.2
Toll Roads	53.0	53.0	52.9	52.9	52.9
Other State Roads	903.0	902.7	901.9	901.4	905.3
Total	1,311.6	1,311.3	1,339.6	1,364.2	1,394.4

River to Sea TPO	CY 2012	CY 2013	CY 2014	CY 2015	CY 2016
Interstate	359.6	359.0	359.0	359.0	393.1
Toll Roads	-	-	-	-	-
Other State Roads	966.0	966.0	965.1	974.4	979.3
Total	1,325.6	1,325.0	1,324.1	1,333.4	1,372.4

**Note:** River to Sea TPO lane mileage does not include roadway portions in Flagler Beach or Beverly Beach

Polk TPO	CY 2012	CY 2013	CY 2014	CY 2015	CY 2016
Interstate	195.4	194.4	195.4	195.4	195.3
Toll Roads	93.9	92.7	92.7	92.7	92.7
Other State Roads	1,347.7	1,357.1	1,359.0	1,371.4	1,369.6
Total	1,637.0	1,644.2	1,647.1	1,659.5	1,657.6

Ocala / Marion Co. TPO	CY 2012	CY 2013	CY 2014	CY 2015	CY 2016
Interstate	229.7	229.7	229.7	229.7	229.7
Toll Roads	-	-	-	-	-
Other State Roads	697.4	697.4	697.4	697.4	705.0
Total	927.1	927.1	927.1	927.1	934.7

CFMPOA Region Total	CY 2012	CY 2013	CY 2014	CY 2015	CY 2016
Interstate	1,581.7	1,580.7	1,610.9	1,636.0	1,695.6
Toll Roads	1,376.1	1,397.9	1,399.1	1,407.0	1,417.4
Other State Roads	6,581.7	6,594.6	6,608.0	6,634.1	6,650.0
Total	9,539.5	9,573.2	9,618.0	9,677.1	9,763.0

Source: Florida Department of Transportation, Mileage and Travel (DVMT) Reports - State Highway System

### Vehicle Miles Traveled

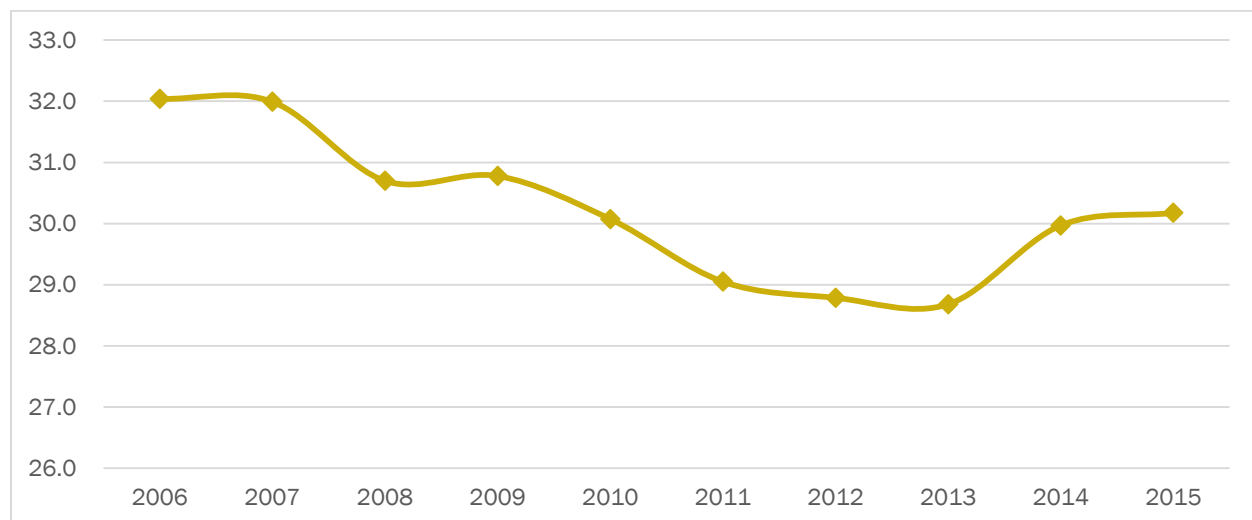
The number of vehicle miles traveled (VMT) on the highway network is an indicator that measures the growth in both the number of vehicles and the distances driven in the CFMPOA region. FDOT annually estimates the VMT for all counties in the state by multiplying the lengths of the state and local roads in the counties by the average daily trips on those roads. This table and graph illustrate the average daily VMTs in the CFMPOA region from 2011 through 2015:

Vehicle Miles Traveled	CY 2011	CY 2012	CY 2013	CY 2014	CY 2015
Brevard County	16,477,274	16,267,601	16,017,753	16,553,776	16,837,032
Lake County	7,906,575	7,870,747	8,008,896	8,751,068	9,220,676
Marion County	10,926,028	10,835,897	10,916,673	11,321,429	11,642,713
Orange County	33,325,315	34,099,958	34,904,854	36,389,540	37,201,259
Osceola County	8,650,963	8,807,344	8,951,705	10,034,811	10,394,277
Polk County	16,409,039	15,923,000	15,874,681	18,473,136	19,310,267
Seminole County	9,922,699	9,972,497	10,122,136	10,338,424	10,652,035
Sumter County	3,714,603	3,643,756	3,721,484	4,034,615	4,303,019
Volusia County	14,776,444	14,723,818	14,872,278	15,194,907	15,688,513
<b>CFMPOA Region</b>	<b>122,108,940</b>	<b>122,144,618</b>	<b>123,390,460</b>	<b>131,091,706</b>	<b>135,249,791</b>

Source: Florida Department of Transportation, Centerline Miles and Daily Vehicle Miles Traveled Report

### 10-Year Historic Trend - Vehicle Miles Traveled per capita

This graph illustrates the 10-year VMT per capita trend total for Brevard, Lake, Marion, Orange, Osceola, Polk, Seminole, Sumter, and Volusia Counties - the CFMPOA region.



### Traffic Counts - Major Roadways

One of the main methods for measuring activity on an area's highway system is the collection of traffic counts on major roadways. More than 400 traffic counts for various locations in Brevard, Lake, Marion, Orange, Osceola, Polk, Seminole, Sumter, and Volusia counties are obtained each year by the Florida Department of Transportation.

The tables shown on pages 11-16 contain FDOT daily (24-hour) traffic counts averaged annually on major roadways in the region from 2011 through 2015:

Site No.	Interstate 95	CY 2011	CY 2012	CY 2013	CY 2014	CY 2015
700134	S of SR 514	34,330	35,277	35,000	39,614	40,653
700428	S of CR 516	34,000	24,000	31,500	55,000	59,500
700371	N of CR 516	55,000	68,000	65,000	67,500	72,000
700372	N of SR 500	55,000	39,000	39,500	41,000	43,500
700415	N of SR 518	37,500	69,500	7,600	76,500	81,000
700388	S of Fiske Blvd.	55,000	57,500	55,000	57,000	60,500
700365	S of SR 520	45,500	64,312	47,500	49,500	52,500
700401	S of SR 407	53,500	53,500	37,000	38,500	42,000
700363	N of Dairy Rd.	31,500	29,500	40,000	38,500	34,000
700436	N of CR 5A	30,500	30,000	26,500	27,000	36,000
790503	S of SR 44	31,000	31,000	32,500	35,000	36,000
790133	N of SR 44	36,599	36,921	36,601	37,725	37,006
790492	S of I-4	44,500	42,500	45,000	46,500	47,500
790494	S of LPGA Blvd.	74,500	71,500	71,500	75,500	77,000
790534	N of LPGA Blvd.	76,000	69,500	70,000	74,000	77,000
790495	S of SR 5	62,500	66,500	63,500	64,500	66,000
790496	N of SR 5	60,500	64,500	69,500	70,500	72,500

<i>Site No.</i>	<i>Interstate 4</i>	<i>CY 2011</i>	<i>CY 2012</i>	<i>CY 2013</i>	<i>CY 2014</i>	<i>CY 2015</i>
100104	E of Hillsborough Co. Line	104,500	112,500	113,000	116,000	119,500
160117	SW of W. Memorial Blvd.	85,500	84,000	81,000	88,500	98,000
160116	NE of SR 539/Kathleen Rd.	81,000	84,000	79,000	87,500	96,500
160115	NE of US 98	77,000	77,500	75,500	82,500	88,500
160114	NE of Old Combee Rd.	70,000	74,000	69,500	73,500	79,000
160113	E of SR 33	68,000	68,000	66,000	73,500	79,000
169951	E of SR 559	72,500	76,500	80,554	83,842	91,879
160108	SW of US 27	75,500	77,500	75,500	84,500	84,000
160111	NE of US 27	95,500	103,000	105,500	110,500	110,500
920316	SW of SR 417	61,000	75,500	60,500	95,000	93,000
753007	at Florida's Turnpike	152,000	161,500	167,500	157,500	168,000
750196	N of Kaley Ave.	131,500	138,000	193,899	192,092	192,500
753051	S of SR 50	150,000	148,000	143,500	144,500	147,500
753056	N of Princeton St.	168,000	196,000	183,000	184,500	188,000
753074	N of Lee Rd.	124,000	149,000	180,000	181,500	185,000
753080	S of Seminole Co. Line	158,500	149,000	155,500	155,000	159,000
770267	N of SR 436	135,500	140,000	140,000	141,000	142,000
770343	N of SR 434	132,557	132,663	134,202	136,609	140,994
770268	S of CR 46A	125,000	125,000	123,500	135,500	139,500
770266	N of SR 46	109,500	103,000	107,500	114,500	125,500
799906	E of Enterprise Rd.	93,629	93,854	96,379	99,777	106,507
791003	SW of SR 472	79,500	88,000	88,500	89,500	92,500
790485	NE of SR 472	70,500	77,500	77,000	78,000	80,500
790497	SW of SR 44	62,000	55,500	60,500	65,500	71,500
790486	NE of SR 44	54,000	55,000	55,000	56,000	57,000
790491	W of I-95	43,000	40,000	40,000	41,000	41,500

<i>Site No.</i>	<i>SR 528</i>	<i>CY 2011</i>	<i>CY 2012</i>	<i>CY 2013</i>	<i>CY 2014</i>	<i>CY 2015</i>
970533	E of I-4	77,800	80,600	75,000	77,000	83,000
970610	W of John Young Pkwy	80,200	82,300	76,000	79,000	86,000
970534	E of US 441	68,500	70,000	66,000	70,000	77,000
970625	E of McCoy Rd.	85,800	87,000	81,000	83,000	91,000
750510	W of SR 436	69,500	84,000	83,500	81,000	82,500
750204	W of Goldenrod Rd.	34,500	69,920	65,836	69,626	77,203
750512	E of Narcoossee Rd.	55,910	54,280	56,500	59,500	63,500
750618	E of SR 417	34,000	48,430	45,500	53,000	56,500
750336	W of SR 520	38,759	38,427	39,111	41,418	45,937
750398	E of St. Johns River	26,500	28,500	33,000	41,418	44,000
700434	E of I-95	20,200	21,100	14,600	15,600	16,200
700377	W of US 1	39,500	35,000	36,000	40,000	40,000

<i>Site No.</i>	<i>US 192</i>	<i>CY 2011</i>	<i>CY 2012</i>	<i>CY 2013</i>	<i>CY 2014</i>	<i>CY 2015</i>
110470	E of US 27	39,000	40,000	43,500	43,500	52,000
920291	E of CR 545	41,000	48,500	51,500	53,000	49,500
921000	W of Orange County Line	63,500	50,000	64,500	56,000	57,500
920311	W of I-4	73,000	70,500	59,500	54,500	59,500
920313	SE of SR 535	50,000	50,000	52,000	52,000	52,500
920265	W of Hoagland Blvd.	58,590	59,133	59,966	60,836	63,154
925015	W of John Young Pkwy.	42,500	44,000	42,500	42,500	43,500
925017	E of US 441	44,000	46,000	44,500	41,000	44,500
927046	SE of Boggy Creek Rd.	40,500	35,000	26,500	26,500	27,500
920105	NW of Neptune Rd.	40,500	40,500	40,000	41,000	45,000
925021	E of Vermont Ave.	32,500	37,000	38,000	37,500	41,000
920032	W of CR 534	21,500	20,400	38,000	40,000	36,500
920302	E of CR 532	15,200	17,200	17,800	18,100	18,800
700090	W of I-95	6,300	6,200	6,600	7,000	8,100
700381	E of I-95	27,500	27,500	28,000	28,000	30,000
700024	W of Babcock St.	34,500	33,000	30,000	31,000	30,000
705205	W of US 1	16,900	15,700	16,000	16,700	16,900

<i>Site No.</i>	<i>SR 46</i>	<i>CY 2011</i>	<i>CY 2012</i>	<i>CY 2013</i>	<i>CY 2014</i>	<i>CY 2015</i>
110501	W of Round Lake Rd.	10,000	10,400	10,200	11,100	11,800
110001	E of CR 437 South	12,900	11,700	19,700	14,600	12,900
111019	E of CR 437 North	14,100	14,200	14,300	16,600	16,500
770074	E of Lake Co. Line	18,700	20,200	19,500	21,000	23,000
770287	W of I-4	14,800	14,800	28,500	28,000	30,500
770288	E of I-4	21,500	21,500	27,500	29,500	31,000
770103	W of Airport Blvd.	20,000	23,000	25,000	27,500	30,000
775050	W of US 17/92	16,000	17,600	17,400	18,600	17,400
775041	E of US 17/92	21,900	17,200	17,000	20,200	17,100
775038	E of CR-425	14,000	14,600	20,600	21,500	20,700
770299	W of St. Johns River	10,196	10,275	10,522	10,628	11,215
770168	E of CR 426	6,100	8,500	6,000	6,200	7,100
700416	2.5 mi. W of I-95	5,600	6,000	5,600	5,300	7,100
700002	E of I-95	7,800	9,100	7,700	9,200	9,200

<i>Site No</i>	<i>Florida's Turnpike</i>	<i>CY 2011</i>	<i>CY 2012</i>	<i>CY 2013</i>	<i>CY 2014</i>	<i>CY 2015</i>
972210	SE of I-75	35,000	34,000	33,000	33,000	37,000
979931	at CR 468	36,072	35,500	37,893	39,798	43,427
972200	NW of Lake Co. Line	36,000	36,000	35,000	36,000	40,000
972160	N of Palatka River	37,000	36,000	36,000	37,000	40,000
972006	at Leesburg Service Plaza	32,000	32,000	31,000	32,000	35,000
970428	S of CR 561	40,705	40,330	41,962	44,237	48,649
972004	S of SR 50	67,000	67,000	66,000	68,000	78,700
972003	W of SR 429	58,400	58,000	57,000	58,000	67,200
972020	N of SR 408	96,000	96,300	95,000	97,000	112,000
970505	at Turkey Lake Service P	66,000	72,000	78,000	81,000	90,000
972015	N of SR 528	70,900	71,100	71,000	73,000	83,100
972201	N of of Osceola Pkwy.	55,900	55,800	53,000	56,000	37,000
972000	S of US 441	47,800	48,300	46,000	49,000	55,000
972110	at Partin Settlement Rd.	31,500	31,900	31,000	34,000	38,000
970429	S of Neptune Rd.	33,177	33,100	35,797	38,254	41,226
972108	S of 3 Lakes Toll Plaza	25,000	25,000	27,000	29,000	32,000

<i>Site No.</i>	<i>SR 50</i>	<i>CY 2011</i>	<i>CY 2012</i>	<i>CY 2013</i>	<i>CY 2014</i>	<i>CY 2015</i>
180204	at CR 478A	5,300	5,300	5,300	5,200	5,700
180021	W of SR 471	5,800	5,300	5,600	5,800	6,100
180017	W of Lake Co. Line	7,500	6,900	7,300	7,200	8,200
110319	W of CR 565	10,600	9,900	19,000	11,500	23,500
110241	E of CR 565	16,100	16,800	19,000	19,100	22,000
115076	E of SR 19	8,100	10,500	11,500	8,200	12,000
110426	W of CR 565A	22,500	23,000	22,500	24,500	25,500
110396	W of CR 561	22,000	22,000	23,500	23,000	27,000
115057	E of CR 561	24,000	26,000	25,500	27,500	34,000
115050	W of US 27	30,000	29,000	27,500	40,000	40,500
110300	W of Hancock Rd.	37,000	44,500	54,000	51,500	60,500
750572	E of Lake Co. Line	44,000	41,000	42,000	43,500	48,500
750038	E of CR 545	29,500	30,734	32,618	33,993	35,543
750304	E of Old Winter Garden Rd.	32,000	32,500	36,000	35,500	37,500
750354	E of Powers Dr.	29,500	37,000	36,500	38,500	41,500
755174	E of John Young Pkwy.	31,000	36,000	32,000	31,500	36,500
755162	E of Edgewater Dr.	32,500	33,500	35,500	35,500	35,000
750546	W of US 17/92	42,500	44,000	45,500	48,000	31,000
750444	E of Bennett Rd,	49,500	52,000	60,500	62,500	64,500
750226	E of SR 436	44,500	46,000	50,000	49,500	54,000
750037	E of Goldenrod Rd.	40,500	45,000	49,500	48,500	52,000
750115	E of Dean Rd.	38,000	43,000	47,500	48,000	49,000
750605	E of Alafaya Tr.	46,000	41,500	49,500	49,500	50,500
750104	W of SR 520	25,231	25,087	25,276	25,371	25,802
700383	W of I-95	9,900	10,700	10,200	10,300	10,300
700373	E of I-95	21,000	21,000	20,000	20,100	21,500
705137	W of US 1	12,300	12,100	14,200	13,400	14,000

<i>Site No.</i>	<i>Interstate 75</i>	<i>CY 2011</i>	<i>CY 2012</i>	<i>CY 2013</i>	<i>CY 2014</i>	<i>CY 2015</i>
180208	S of CR 476B	38,500	34,000	36,000	36,500	38,500
180194	S of SR 48	37,000	37,701	35,000	36,000	38,000
189920	S of Florida's Turnpike	41,424	39,544	40,900	42,323	44,301
180186	S of SR 44	59,000	58,500	60,000	61,500	67,000
180188	N of SR 44	67,500	62,500	64,000	66,500	75,500
360317	N of Williams Rd.	75,099	74,915	77,544	80,753	87,000
360440	S of SR 40	65,500	60,000	69,000	65,000	59,000
360439	S of US 27	67,500	65,000	63,500	69,000	69,500
360438	N of US 27	65,000	64,000	61,500	62,500	65,500
360437	N of SR 326	51,500	55,000	52,500	50,500	47,500
360436	N of CR 318	48,500	56,000	60,500	56,000	51,500



Site no.	US 17 / 92	CY 2011	CY 2012	CY 2013	CY 2014	CY 2015
160026	E of CR 555	21,500	16,300	28,000	28,500	30,000
165062	E of Experiment Station Rd.	15,200	16,887	16,300	16,700	18,800
160035	W of Kentucky Ave.	19,800	19,800	19,800	20,500	22,000
165056	W of 9th St. (Haines City)	16,700	22,000	22,000	23,000	25,000
165059	N of CR 580/Johnson Ave.	11,100	11,600	11,600	11,800	13,300
160043	SW of CR 547	9,700	9,600	9,800	10,000	11,500
160125	NE of CR 54	7,500	9,950	7,400	7,600	9,100
921002	W CR-531	24,000	24,500	27,000	28,500	27,500
920003	S of Emmett St.	53,000	54,000	54,000	54,500	53,500
755051	N of SR 50	27,500	24,500	25,500	26,000	28,500
755058	S of Orange Ave.	25,000	25,500	26,000	26,000	26,000
755061	S of Lee Rd.	32,500	35,000	29,500	31,500	29,000
755129	N of Lake Ave.	48,500	51,500	52,000	51,500	46,500
750446	S of Maitland Blvd.	30,500	31,500	30,500	29,000	30,500
770018	N of Orange Co. Line	47,000	52,000	47,500	24,500	28,500
770152	N of SR 436	48,000	50,500	50,500	50,000	46,000
770273	N of SR 434	38,000	38,000	37,000	36,500	37,500
770009	S of CR 427	23,500	30,500	31,000	32,000	30,500
770104	S of Lake Mary Blvd.	34,000	32,000	36,500	34,500	37,000
775057	S of CR 46A	23,000	22,500	26,000	28,000	29,000
770245	S of SR 46	23,500	26,500	23,000	23,000	26,000
790101	S of Dirksen Rd.	23,500	22,500	23,000	24,000	23,000
790509	S of Saxon Blvd.	27,500	17,500	26,000	25,500	27,500
795165	S of Graves Ave.	29,000	26,500	29,000	27,500	28,500
790445	S of New York Ave.	27,000	26,000	27,000	25,000	28,000
791004	N of Golf Club Dr.	44,000	41,000	45,000	42,000	44,000
791006	N of SR 15A/Taylor Rd.	27,500	27,000	27,000	27,500	23,500
795173	N of Beresford Ave.	18,000	16,800	16,000	16,400	17,000
795004	S of SR 44/New York Ave.	16,600	16,000	16,300	14,800	15,400
795008	S of Minnesota Ave.	16,400	16,000	16,300	15,500	16,100
790066	N of Plymouth Ave.	21,500	22,500	20,500	21,000	22,000

Source: Florida Department of Transportation, AADT Report

## Gasoline Consumption

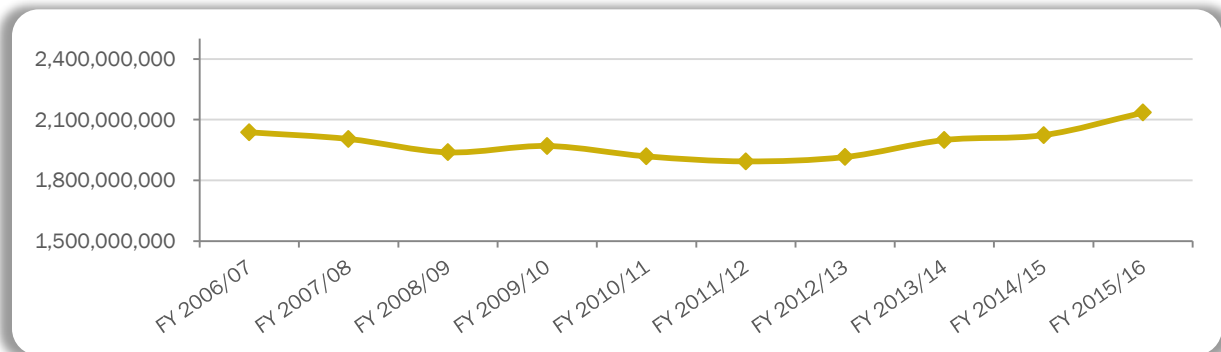
Consumption of gasoline over a period of years indicates changes in the number of vehicles and amount of travel in the CFMPOA area. The region saw a 5.5 percent increase in gasoline consumption in FY 2015/16 from the previous which can be attributed to increase in employment levels and most importantly a decrease in fuel prices. This table illustrates gallons of gasoline sold in the region from FY 2011/12 to FY 2015/16.

Gasoline Consum	FY 2011/12	FY 2012/13	FY 2013/14	FY 2014/15	FY 2015/16
Brevard County	236,330,147	234,444,633	233,120,449	235,247,029	251,459,738
Lake County	128,279,683	126,627,485	130,199,651	133,890,649	141,213,679
Marion County	159,285,819	156,241,806	155,830,142	161,957,536	169,321,038
Orange County	554,463,689	572,347,179	621,851,038	621,699,131	653,000,134
Osceola County	155,200,394	167,794,447	179,291,995	170,377,880	180,641,481
Polk County	221,613,734	219,855,408	226,832,841	239,816,327	254,537,450
Seminole County	183,281,073	181,886,180	191,391,290	193,198,662	200,694,346
Sumter County	48,723,726	50,751,770	55,216,199	56,585,931	58,166,338
Volusia County	206,432,124	205,172,217	205,432,394	210,816,087	225,353,143
<b>CFMPOA Region</b>	<b>1,893,610,388</b>	<b>1,915,121,126</b>	<b>1,999,165,997</b>	<b>2,023,589,232</b>	<b>2,134,387,347</b>

Source: Florida Department of Revenue, Fuel Tax Distributions

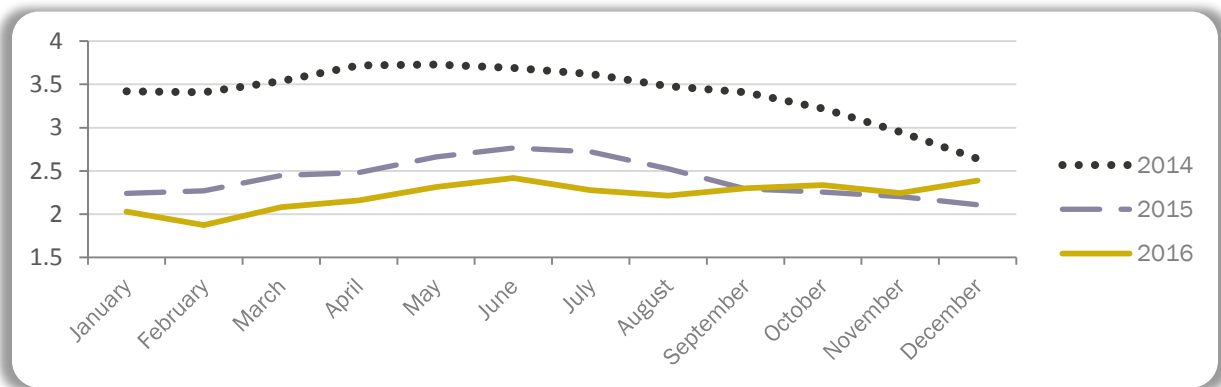
## 10-Year Historic Trend - Gasoline Consumption

This graph illustrates the 10-year gasoline consumption trend total for Brevard, Lake, Marion, Orange, Osceola, Polk, Seminole, Sumter, and Volusia counties - the CFMPOA region.



## Average Monthly Gasoline Price per Gallon

One factor that influences the amount of gasoline consumed is the price per gallon. The average monthly price per gallon for regular gasoline in the CFMPOA region from 2014 through 2016 is shown in the following chart.



Source: U.S. Energy Information Administration, Florida Regular Gasoline Retail Prices Report

## Diesel Fuel Consumption

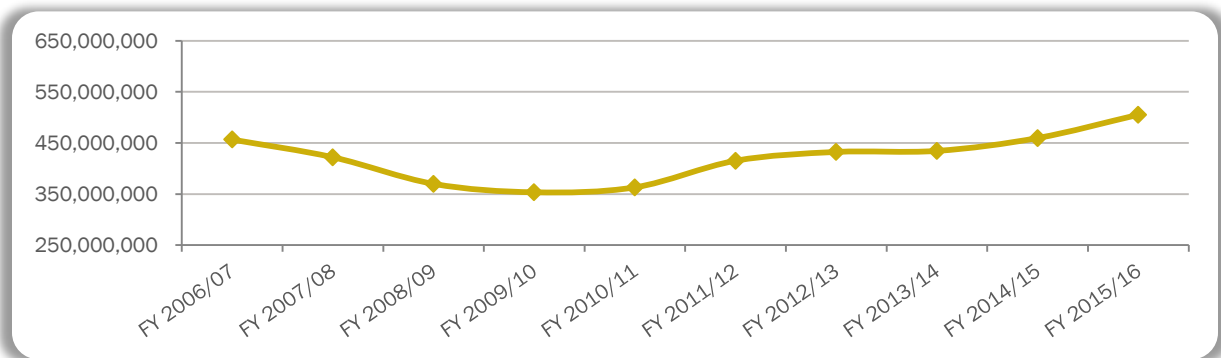
Consumption of diesel fuel over a period of years also indicates change in the number of vehicles, particularly commercial trucks, in the CFMPOA area. This chart shows the number of gallons of diesel fuel sold in the region from FY 2011/12 through FY 2015/16.

Diesel Consumpti	FY 2011/12	FY 2012/13	FY 2013/14	FY 2014/15	FY 2015/16
Brevard County	106,207,434	115,596,498	111,698,276	127,886,050	149,535,894
Lake County	15,039,623	15,600,579	15,833,882	16,542,996	18,104,430
Marion County	40,816,068	41,169,572	42,119,505	42,060,748	44,111,646
Orange County	99,811,914	102,650,906	103,983,715	108,004,822	116,379,544
Osceola County	13,040,045	13,954,837	14,233,961	14,685,140	16,202,994
Polk County	71,081,836	72,678,849	73,987,241	75,871,564	81,121,556
Seminole County	16,832,221	17,544,973	17,990,174	19,045,947	20,694,739
Sumter County	28,658,861	28,734,437	29,731,608	29,539,087	30,483,600
Volusia County	23,580,031	24,369,617	24,776,091	25,903,870	28,446,906
<b>CFMPOA Region</b>	<b>415,068,033</b>	<b>432,300,267</b>	<b>434,354,453</b>	<b>459,540,225</b>	<b>505,081,309</b>

Source: Florida Department of Agriculture and Consumer Services, *Florida Motor Gasoline & Diesel Fuel Reports*

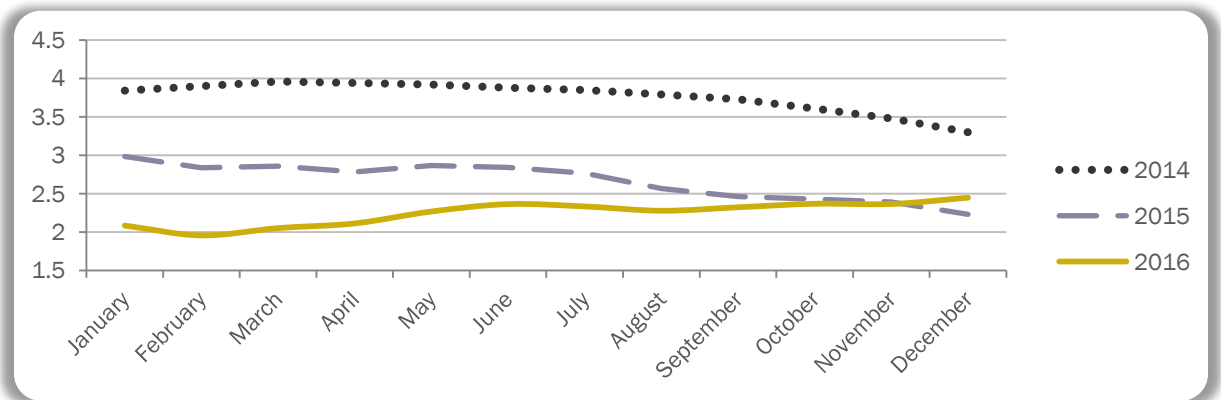
### 10-Year Historic Trend - Diesel Consumption

This graph illustrates the 10-year diesel consumption trend total for Brevard, Lake, Marion, Orange, Osceola, Polk, Seminole, Sumter, and Volusia counties - the CFMPOA region.



### Average Monthly Diesel Price per Gallon

One factor that influences the amount of diesel fuel consumed is the price per gallon. The average monthly price per gallon for diesel in the CFMPOA region from 2014 through 2016 is shown in the following chart.



Source: U.S. Energy Information Administration, *Lower Atlantic Diesel Retail Prices Report*

### Chapter 3: Health and Safety Statistics

Land-use planning, including transportation decisions, affects human health by influencing a wide range of environmental, physical, and social factors. Although the positive effects of mobility on health are substantial, the negative effects are also profound and costly. This chapter analyzes the safety statistics for motorists, pedestrians, and cyclists along with the CO<sub>2</sub> emissions produced by our transportation network.

#### Automobile Safety Statistics

In 2009, MetroPlan Orlando developed an online Geographic Information System (GIS) based crash database to provide its regional partners with an accessible crash analysis and reporting tool. This tool provides current crash and streets data, and it is being used by several law enforcement, traffic engineering, transportation planning agencies, and research institutions across the state. These tables show changes in the total number of auto occupant crashes, injuries and fatalities for each of the nine counties from 2012 through 2016.

<i>Automobile Crash</i>	<i>CY 2012</i>	<i>CY 2013</i>	<i>CY 2014</i>	<i>CY 2015</i>	<i>CY 2016</i>
Brevard County	6,230	6,975	7,265	8,318	8,946
Lake County	3,460	3,602	3,886	4,714	4,535
Marion County	4,102	4,183	4,688	5,367	6,056
Orange County	18,174	25,175	30,446	31,459	30,968
Osceola County	3,349	4,835	4,235	5,519	7,634
Polk County	6,061	7,499	8,835	9,397	10,121
Seminole County	3,199	3,715	5,512	6,862	7,078
Sumter County	605	709	1,022	1,040	1,161
Volusia County	6,386	7,138	7,192	7,972	8,580
<b>CFMPOA Total</b>	<b>51,566</b>	<b>63,831</b>	<b>73,081</b>	<b>80,648</b>	<b>85,079</b>

<i>Automobile Injury</i>	<i>CY 2012</i>	<i>CY 2013</i>	<i>CY 2014</i>	<i>CY 2015</i>	<i>CY 2016</i>
Brevard County	2,749	3,213	3,308	3,690	4,027
Lake County	1,499	2,380	1,610	1,768	2,010
Marion County	2,025	2,017	2,086	2,359	2,509
Orange County	12,938	14,807	10,936	11,488	12,282
Osceola County	2,752	3,006	2,178	2,789	3,002
Polk County	3,048	3,610	4,013	4,248	4,099
Seminole County	2,414	3,378	2,356	2,857	2,623
Sumter County	286	332	482	451	574
Volusia County	3,254	3,402	3,123	3,379	3,505
<b>CFMPOA Total</b>	<b>30,965</b>	<b>36,145</b>	<b>30,092</b>	<b>33,029</b>	<b>34,631</b>

*Source:* Florida Department of Highway Safety and Motor Vehicles & MetroPlan Orlando Web-Based Crash Database; includes only Long form crashes

<i>Automobile Fatality</i>	<i>CY 2012</i>	<i>CY 2013</i>	<i>CY 2014</i>	<i>CY 2015</i>	<i>CY 2016</i>
Brevard County	58	77	39	64	69
Lake County	35	38	27	37	38
Marion County	64	53	41	55	57
Orange County	111	94	95	85	111
Osceola County	23	31	33	30	33
Polk County	69	88	89	73	95
Seminole County	22	35	31	32	29
Sumter County	17	17	21	16	19
Volusia County	90	88	59	70	84
<b>CFMPOA Total</b>	<b>489</b>	<b>521</b>	<b>435</b>	<b>462</b>	<b>535</b>

*Source:* Florida Department of Highway Safety and Motor Vehicles & MetroPlan Orlando Web-Based Crash Database

### Pedestrian Safety Statistics

Pedestrian safety affects the entire community; the young and old, men and women- at all times of the day and night. Many unnecessary injuries and fatalities occur because of intoxication or inattentiveness by both drivers and pedestrians. These tables show the changes in the total number of bicyclist and pedestrian injuries and fatalities from 2012 through 2016 as compiled by the Florida Department of Highway Safety and Motor Vehicles and MetroPlan's Web-Based Crash database for the CFMPOA region.

<i>Pedestrian Injury</i>	<i>CY 2012</i>	<i>CY 2013</i>	<i>CY 2014</i>	<i>CY 2015</i>	<i>CY 2016</i>
Brevard County	167	127	109	95	101
Lake County	60	47	48	56	41
Marion County	91	80	72	84	76
Orange County	480	498	590	494	491
Osceola County	57	80	90	91	99
Polk County	148	133	183	133	118
Seminole County	84	92	90	90	77
Sumter County	9	11	14	14	17
Volusia County	185	158	182	168	178
<b>CFMPOA Total</b>	<b>1,281</b>	<b>1,226</b>	<b>1,378</b>	<b>1,225</b>	<b>1,198</b>

<i>Pedestrian Fatality</i>	<i>CY 2012</i>	<i>CY 2013</i>	<i>CY 2014</i>	<i>CY 2015</i>	<i>CY 2016</i>
Brevard County	11	11	15	11	20
Lake County	5	4	7	11	9
Marion County	11	8	8	12	12
Orange County	42	36	39	39	43
Osceola County	2	6	13	12	14
Polk County	14	9	21	15	14
Seminole County	5	9	5	6	7
Sumter County	-	3	-	2	-
Volusia County	15	16	20	13	9
<b>CFMPOA Total</b>	<b>105</b>	<b>102</b>	<b>128</b>	<b>121</b>	<b>128</b>

*Source:* Florida Department of Highway Safety and Motor Vehicles & MetroPlan Orlando Web-Based Crash Database

### Bicyclist Safety Statistics

As the number of bicyclists using the transportation network continues to increase, so does the number of injuries and fatalities. These charts show the changes in the total number of bicyclist injuries and fatalities from 2012 through 2016 for the CFMPOA region.

<i>Bicyclist Injury</i>	<i>CY 2012</i>	<i>CY 2013</i>	<i>CY 2014</i>	<i>CY 2015</i>	<i>CY 2016</i>
Brevard County	147	104	94	77	70
Lake County	48	40	27	27	21
Marion County	68	38	32	55	42
Orange County	413	444	304	356	356
Osceola County	51	79	41	62	53
Polk County	115	73	75	93	57
Seminole County	89	128	45	95	87
Sumter County	4	7	12	8	6
Volusia County	179	173	112	130	123
<b>CFMPOA Total</b>	<b>1,114</b>	<b>1,086</b>	<b>742</b>	<b>903</b>	<b>815</b>

<i>Bicyclist Fatality</i>	<i>CY 2012</i>	<i>CY 2013</i>	<i>CY 2014</i>	<i>CY 2015</i>	<i>CY 2016</i>
Brevard County	3	7	5	-	3
Lake County	2	4	2	1	-
Marion County	1	1	1	1	2
Orange County	9	8	8	9	7
Osceola County	-	-	3	3	1
Polk County	3	4	3	5	3
Seminole County	-	6	-	3	4
Sumter County	1	-	-	-	-
Volusia County	2	5	5	3	5
<b>CFMPOA Total</b>	<b>21</b>	<b>35</b>	<b>27</b>	<b>25</b>	<b>25</b>

*Source:* Florida Department of Highway Safety and Motor Vehicles & MetroPlan Orlando Web-Based Crash Database

### Air Quality

Air pollution is associated with several health issues, including asthma, heart disease, and cancer. Ground-level ozone, for which motor vehicle emissions are a primary source, has been a cause for concern in the Central Florida Area in recent years. In 2015, the Federal Environmental Protection Agency (EPA) revised the standard for ozone from 75 parts per billion to 70 parts per billion in any eight-hour period. An area will be considered as nonattainment (not meeting the standard) if the average of the annual fourth-highest ozone readings at any monitoring site for the three-year period equals or exceeds the 70 parts per billion standard.

The following table shows the fourth-highest eight-hour average readings, shown in parts per billion, for the area from 2012 through 2016:

<i>Ozone Monitoring</i>	<i>CY 2012</i>	<i>CY 2013</i>	<i>CY 2014</i>	<i>CY 2015</i>	<i>CY 2016</i>
Melbourne (Brevard)	64	63	59	58	59
Freedom 7 Elem. (Brevard)	65	63	63	59	61
Lost Lake Elem. (Lake)	65	63	67	59	64
Ocala YMCA (Marion)	63	61	64	58	62
County Impound (Marion)	59	61	59	57	60
Winegard Elem. (Orange)	71	64	62	61	63
Lake Isle Estates (Orange)	72	63	63	59	66
Four Corners (Osceola)	65	65	64	61	64
Sikes Elem. (Polk)	71	64	63	62	64
Baptist Children's (Polk)	71	64	62	64	61
Seminole State (Seminole)	71	61	60	60	63
Port Orange (Volusia)	61	59	60	57	60
Daytona Blind Svc. (Volusia)	64	61	62	57	59

*Source:* Florida Department of Environmental Protection

*Note:* The three-year attainment average can be determined by averaging the last three years of ozone data for each station.

## Chapter 4: Transit Statistics

As the highway system in the CFMPOA region becomes more congested, alternative modes of transportation are becoming increasingly important. Currently, the majority of transit users in the region rely heavily on transit services to get to work, shopping, medical appointments etc. As a result, this service is essential to the area's economy and the quality of life. This chapter looks at fixed-route bus, demand-response (paratransit), and vanpool services provided by the various transit agencies in the CFMPOA region. Numbers shown were provided by local transit agency staff.

### LYNX

The LYNX service area comprises Orange, Osceola and Seminole counties, an area of approximately 2,500 square miles. While regular fixed route service does not reach the most rural portions of the service area, LYNX paratransit service is available within all portions of the county boundaries. The transit services provided by LYNX include: Fixed-Route Bus Service, LYMMO Downtown Circulator, Shuttle Services, Transportation Disadvantaged Service, and Van Pooling.

#### *Transit Supplied*

<i>Vehicle Revenue Miles</i>	<i>FY 2011/12</i>	<i>FY 2012/13</i>	<i>FY 2013/14</i>	<i>FY 2014/15</i>	<i>FY 2015/16</i>
Number of Miles	25,794,194	25,482,688	29,376,790	25,442,689	26,715,548

<i>Vehicle Revenue Hours</i>	<i>FY 2011/12</i>	<i>FY 2012/13</i>	<i>FY 2013/14</i>	<i>FY 2014/15</i>	<i>FY 2015/16</i>
Number of Hours	1,640,660	1,693,383	1,730,670	1,751,053	1,686,622

<i>Vehicles in Max. Service</i>	<i>FY 2011/12</i>	<i>FY 2012/13</i>	<i>FY 2013/14</i>	<i>FY 2014/15</i>	<i>FY 2015/16</i>
Number of Vehicles	529	571	608	655	680

#### *Transit Consumed*

<i>Passenger Miles Traveled</i>	<i>FY 2011/12</i>	<i>FY 2012/13</i>	<i>FY 2013/14</i>	<i>FY 2014/15</i>	<i>FY 2015/16</i>
Number of Miles	164,408,315	167,299,657	178,129,638	169,531,611	152,877,019

<i>Unlinked Passenger Trips</i>	<i>FY 2011/12</i>	<i>FY 2012/13</i>	<i>FY 2013/14</i>	<i>FY 2014/15</i>	<i>FY 2015/16</i>
Number of Unlinked Trips	29,250,069	29,853,083	30,141,247	29,377,073	27,378,837

Source: Central Florida Regional Transportation Authority d.b.a. LYNX, APTA (American Public Transportation Association)

### LakeXpress

Public transportation services in Lake County include LakeXpress, the County's fixed-route bus service, and Lake County Connection paratransit services. LakeXpress maintains four fixed-route bus services: Lady Lake and Eustis via U.S. 441; Altoona to Zellwood; and two local routes -- one throughout the City of Leesburg and another through the City of Mount Dora. All routes operate on a one-hour headway schedule.

#### *Transit Service Supplied*

<i>Vehicle Revenue Miles</i>	<i>FY 2011/12</i>	<i>FY 2012/13</i>	<i>FY 2013/14</i>	<i>FY 2014/15</i>	<i>FY 2015/16</i>
Number of Miles	1,933,003	1,717,650	1,760,839	1,601,846	1,538,338

<i>Vehicle Revenue Hours</i>	<i>FY 2011/12</i>	<i>FY 2012/13</i>	<i>FY 2013/14</i>	<i>FY 2014/15</i>	<i>FY 2015/16</i>
Number of Hours	144,176	108,718	108,481	96,571	90,860

<i>Vehicles in Max. Service</i>	<i>FY 2011/12</i>	<i>FY 2012/13</i>	<i>FY 2013/14</i>	<i>FY 2014/15</i>	<i>FY 2015/16</i>
Number of Vehicles	63	58	56	50	42



### ***Transit Service Consumed***

<b><i>Passenger Miles Traveled</i></b>	<b><i>FY 2011/12</i></b>	<b><i>FY 2012/13</i></b>	<b><i>FY 2013/14</i></b>	<b><i>FY 2014/15</i></b>	<b><i>FY 2015/16</i></b>
Number of Miles	4,848,221	4,546,039	4,488,988	4,034,590	2,050,310
<b><i>Unlinked Passenger Trips</i></b>	<b><i>FY 2011/12</i></b>	<b><i>FY 2012/13</i></b>	<b><i>FY 2013/14</i></b>	<b><i>FY 2014/15</i></b>	<b><i>FY 2015/16</i></b>
Number of Unlinked Trips	463,941	476,131	461,006	437,939	418,963

Source: LakeXpress (Lake County)

### **Space Coast Area Transit (SCAT)**

Space Coast Area Transit (SCAT) provides the majority of transit service in Brevard County, including both fixed-route and demand response services. SCAT currently operates 17 fixed routes, 1 dial-a-ride, paratransit service, vanpools, and the Volunteers-in-Motion program. Service spans from approximately 6 a.m. to 8:30 p.m., with an average of 60-minute frequencies.

### ***Transit Service Supplied***

<b><i>Vehicle Revenue Miles</i></b>	<b><i>FY 2011/12</i></b>	<b><i>FY 2012/13</i></b>	<b><i>FY 2013/14</i></b>	<b><i>FY 2014/15</i></b>	<b><i>FY 2015/16</i></b>
Number of Miles	4,075,039	4,095,511	4,283,153	4,183,088	4,102,027
<b><i>Vehicle Revenue Hours</i></b>	<b><i>FY 2011/12</i></b>	<b><i>FY 2012/13</i></b>	<b><i>FY 2013/14</i></b>	<b><i>FY 2014/15</i></b>	<b><i>FY 2015/16</i></b>
Number of Hours	189,935	193,087	193,031	185,514	209,228
<b><i>Vehicles in Max. Service</i></b>	<b><i>FY 2011/12</i></b>	<b><i>FY 2012/13</i></b>	<b><i>FY 2013/14</i></b>	<b><i>FY 2014/15</i></b>	<b><i>FY 2015/16</i></b>
Number of Vehicles	141	166	145	113	113

### ***Transit Service Consumed***

<b><i>Passenger Miles Traveled</i></b>	<b><i>FY 2011/12</i></b>	<b><i>FY 2012/13</i></b>	<b><i>FY 2013/14</i></b>	<b><i>FY 2014/15</i></b>	<b><i>FY 2015/16</i></b>
Number of Miles	23,661,724	25,902,092	26,873,487	24,361,853	23,198,943
<b><i>Unlinked Passenger Trips</i></b>	<b><i>FY 2011/12</i></b>	<b><i>FY 2012/13</i></b>	<b><i>FY 2013/14</i></b>	<b><i>FY 2014/15</i></b>	<b><i>FY 2015/16</i></b>
Number of Unlinked Trips	2,644,308	2,883,218	2,921,644	2,898,925	2,748,564

Source: Space Coast Area Transit (SCAT)

### **Votran**

The Volusia County Council created the county's public transportation system, called Votran, in 1975. Votran is a service of Volusia County Government, and it currently operates 21 fixed routes, 2 flexible routes, trolley service, and paratransit Gold Service for older adults and persons with disabilities. Service spans from approximately 6 a.m. to 7 p.m., with an average of 60-minute headways.

### ***Transit Service Supplied***

<b><i>Vehicle Revenue Hours</i></b>	<b><i>FY 2011/12</i></b>	<b><i>FY 2012/13</i></b>	<b><i>FY 2013/14</i></b>	<b><i>FY 2014/15</i></b>	<b><i>FY 2015/16</i></b>
Number of Hours	298,722	307,211	311,701	316,366	328,847
<b><i>Vehicles in Max. Service</i></b>	<b><i>FY 2011/12</i></b>	<b><i>FY 2012/13</i></b>	<b><i>FY 2013/14</i></b>	<b><i>FY 2014/15</i></b>	<b><i>FY 2015/16</i></b>
Number of Vehicles	108	121	125	126	129

### ***Transit Service Consumed***

<b><i>Passenger Miles Traveled</i></b>	<b><i>FY 2011/12</i></b>	<b><i>FY 2012/13</i></b>	<b><i>FY 2013/14</i></b>	<b><i>FY 2014/15</i></b>	<b><i>FY 2015/16</i></b>
Number of Miles	15,858,124	17,938,903	17,805,586	-	30,751,753
<b><i>Unlinked Passenger Trips</i></b>	<b><i>FY 2011/12</i></b>	<b><i>FY 2012/13</i></b>	<b><i>FY 2013/14</i></b>	<b><i>FY 2014/15</i></b>	<b><i>FY 2015/16</i></b>
Number of Unlinked Trips	3,848,303	4,024,638	4,013,072	3,856,481	3,545,910

Source: Votran (Volusia County), APTA (American Public Transportation Association)

### Citrus Connection

The Lakeland Area Mass Transit District, known as the Citrus Connection, operates 38 fixed-route buses and 15 Handy buses, paratransit services, in 15 fixed routes. Today the Citrus Connection delivers more than 6,000 people to work, play, school and other destinations every day. Additionally, the Lakeland Area Mass Transit District serves as a contractor to operate services in Winter Haven and express service to Bartow.

#### *Transit Service Supplied*

<i>Vehicle Revenue Miles</i>	<i>FY 2011/12</i>	<i>FY 2012/13</i>	<i>FY 2013/14</i>	<i>FY 2014/15</i>	<i>FY 2015/16</i>
Number of Miles	1,046,543	1,333,092	935,371	886,423	1,372,618
<i>Vehicle Revenue Hours</i>	<i>FY 2011/12</i>	<i>FY 2012/13</i>	<i>FY 2013/14</i>	<i>FY 2014/15</i>	<i>FY 2015/16</i>
Number of Hours	72,601	102,057	69,077	64,772	89,104
<i>Vehicles in Max. Service</i>	<i>FY 2011/12</i>	<i>FY 2012/13</i>	<i>FY 2013/14</i>	<i>FY 2014/15</i>	<i>FY 2015/16</i>
Number of Vehicles	22	32	22	22	30

#### *Transit Service Consumed*

<i>Passenger Miles Traveled</i>	<i>FY 2011/12</i>	<i>FY 2012/13</i>	<i>FY 2013/14</i>	<i>FY 2014/15</i>	<i>FY 2015/16</i>
Number of Miles	5,760,775	6,962,739	6,641,122	5,878,810	8,076,814
<i>Unlinked Passenger Trips</i>	<i>FY 2011/12</i>	<i>FY 2012/13</i>	<i>FY 2013/14</i>	<i>FY 2014/15</i>	<i>FY 2015/16</i>
Number of Unlinked Trips	1,104,856	1,318,689	1,215,338	1,073,367	1,304,808

Source: Lakeland Area Mass Transit District d.b.a. Citrus Connection.

### SunTran

SunTran operates fixed-route bus service on six routes in the Ocala area. The SunTran bus fleet is equipped to carry disabled passengers, who ride at reduced fares. SunTran is a cooperative effort of the Ocala/Marion County Transportation Planning Organization, Marion County, the City of Ocala, the Florida Department of Transportation and the Federal Transportation Administration. Bus service is provided Monday through Saturday, from 5:00 a.m. through 10:00 p.m with an average headway of 70 minutes.

#### *Transit Service Supplied*

<i>Vehicle Revenue Miles</i>	<i>FY 2011/12</i>	<i>FY 2012/13</i>	<i>FY 2013/14</i>	<i>FY 2014/15</i>	<i>FY 2015/16</i>
Number of Miles	437,406	511,252	487,296	492,048	494,222
<i>Vehicle Revenue Hours</i>	<i>FY 2011/12</i>	<i>FY 2012/13</i>	<i>FY 2013/14</i>	<i>FY 2014/15</i>	<i>FY 2015/16</i>
Number of Hours	27,664	34,501	31,065	31,505	31,547
<i>Vehicles in Max. Service</i>	<i>FY 2011/12</i>	<i>FY 2012/13</i>	<i>FY 2013/14</i>	<i>FY 2014/15</i>	<i>FY 2015/16</i>
Number of Vehicles	6	8	6	6	6

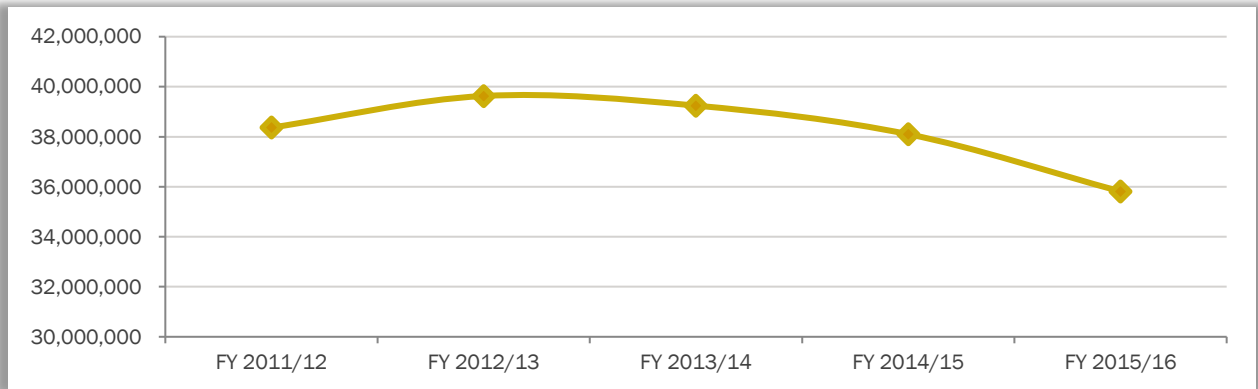
#### *Transit Service Consumed*

<i>Passenger Miles Traveled</i>	<i>FY 2011/12</i>	<i>FY 2012/13</i>	<i>FY 2013/14</i>	<i>FY 2014/15</i>	<i>FY 2015/16</i>
Number of Miles	2,147,346	2,250,998	2,659,742	2,792,500	2,242,744
<i>Unlinked Passenger Trips</i>	<i>FY 2011/12</i>	<i>FY 2012/13</i>	<i>FY 2013/14</i>	<i>FY 2014/15</i>	<i>FY 2015/16</i>
Number of Unlinked Trips	421,521	439,783	436,063	417,920	415,762

Source: SunTran.

### *Five-Year Historic Trend - Unlinked Transit Passenger Trips*

This graph illustrates the five-year unlinked passenger trip trend total for Brevard, Lake, Marion, Orange, Osceola, Polk, Seminole, Sumter, and Volusia Counties - the CFMPOA region.



## Chapter 5: Aviation, Rail, Sea, and Space Port Statistics

Aviation is another important mode of transportation in the CFMPOA region. Due to the large number of tourists, business travelers, and residents flying to and from the Central Florida area, the region's international airports have experienced major growth during the past decade.

The CFMPOA region is served by four international airports:

- Orlando International Airport, Orange County (MCO)
- Orlando-Sanford International Airport, Seminole County (SFB)
- Melbourne International Airport, Brevard County (MLB)
- Daytona Beach International Airport, Volusia County (DAB)

### Orlando International Airport, Orange County (MCO)

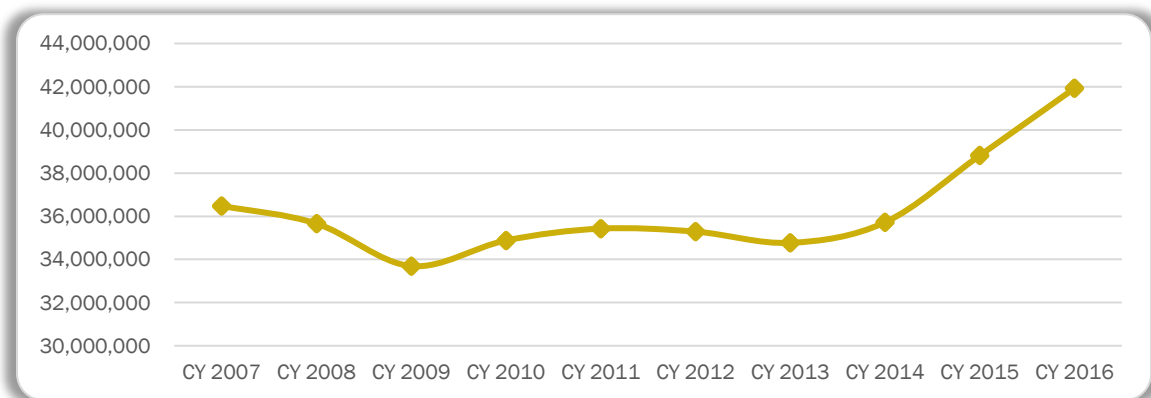
Due to the high-volume tourist market, Orlando International Airport continues to be one of the busiest airports in the U.S. It is the second-busiest airport in Florida, after Miami International; the 15th-busiest airport in the United States; and the 43rd-busiest airport in the world, by passenger traffic. The table shows the number of passengers, tons of cargo, and operations at the Orlando International Airport from 2012 to 2016:

<i>Orlando Int'l Airport</i>	<i>CY 2012</i>	<i>CY 2013</i>	<i>CY 2014</i>	<i>CY 2015</i>	<i>CY 2016</i>
Total Passengers	35,288,887	34,768,544	35,714,612	38,809,337	41,923,399
Tons of Cargo	172,957	169,725	174,869	188,012	209,052
Aircraft Operations	301,102	291,662	290,331	308,173	316,981

*Source: Greater Orlando Aviation Authority*

### 10-Year Historic Trend - Total Passengers

This graph illustrates the 10-year total passenger trend for Orlando International Airport.



### Orlando-Sanford International Airport, Seminole County (SFB)

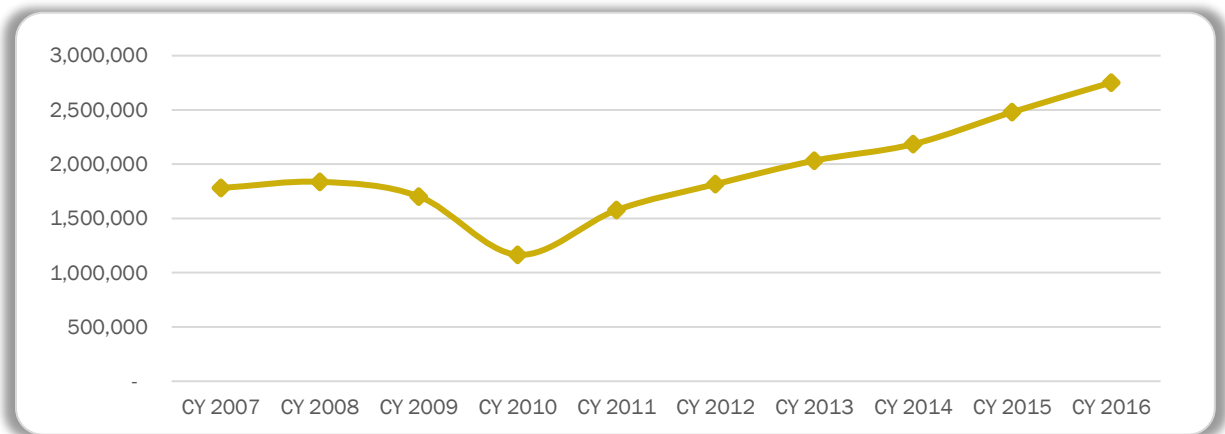
The Orlando-Sanford International Airport has also grown rapidly in recent years. It began as a place primarily for international chartered and scheduled flights to and from Europe, but it has developed into an alternative to Orlando International for north metro area residents. Orlando-Sanford handles international service, as well as domestic flights to a growing number of U.S. cities. The following table shows the number of passengers, tons of cargo, and operations at the Orlando-Sanford International Airport from 2012 to 2016:

<i>Orlando-Sanford Int'l</i>	<i>CY 2012</i>	<i>CY 2013</i>	<i>CY 2014</i>	<i>CY 2015</i>	<i>CY 2016</i>
Total Passengers	1,815,729	2,032,680	2,184,701	2,480,122	2,752,410
Tons of Cargo	3,179	3,112	1,627	1,316	610
Aircraft Operations	301,072	269,708	220,630	293,742	289,759

*Source: Sanford Airport Authority, Monthly Activity Report*

### 10-Year Historic Trend - Total Passengers

This graph illustrates the 10-year total passenger trend for Orlando-Sanford International Airport.



### Melbourne International Airport, Brevard County (MLB)

The Melbourne International Airport currently operates with three runways accommodating general aviation, commercial, and cargo aircraft. The airport has five airlines operating out of eight gates and seven jet ways, which provide service primarily to the eastern United States as well as the Bahamas.

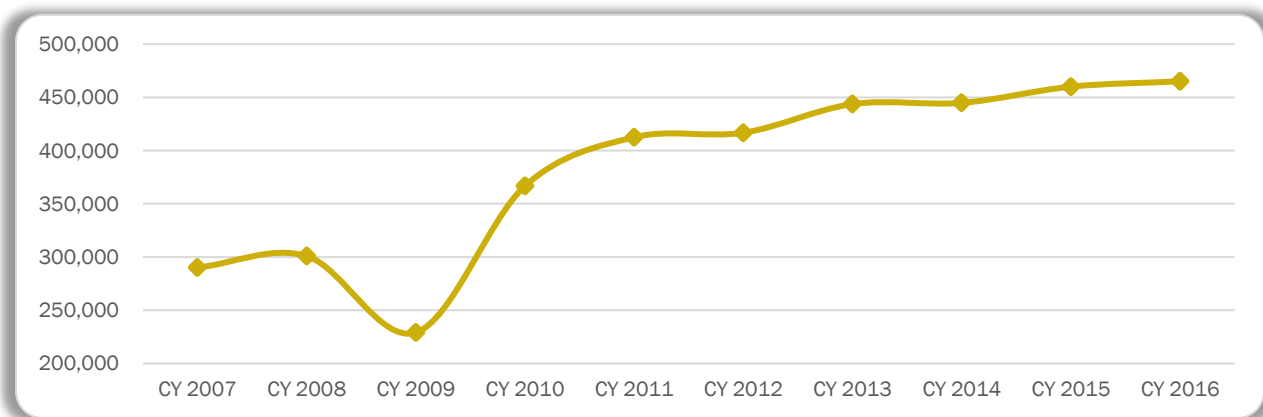
The table shows the number of passengers, tons of cargo, and operations at the Melbourne International Airport from 2012 to 2016:

Melbourne Int'l Airport	CY 2012	CY 2013	CY 2014	CY 2015	CY 2016
Total Passengers	416,780	443,717	444,844	460,055	465,082
Tons of Cargo	242	107	121	117	92
Aircraft Operations	159,112	131,140	121,370	91,860	96,070

Source: Melbourne Airport Authority

### 10-Year Historic Trend - Total Passengers

This graph illustrates the 10-year total passenger trend for MLB



### Daytona Beach International Airport, Volusia County (DAB)

The Daytona Beach International Airport is a 160,000-square-foot, modern, six-gate terminal complex. Currently, three major airlines operate out of this facility providing direct service to Atlanta and Charlotte, as well as the Bahamas.

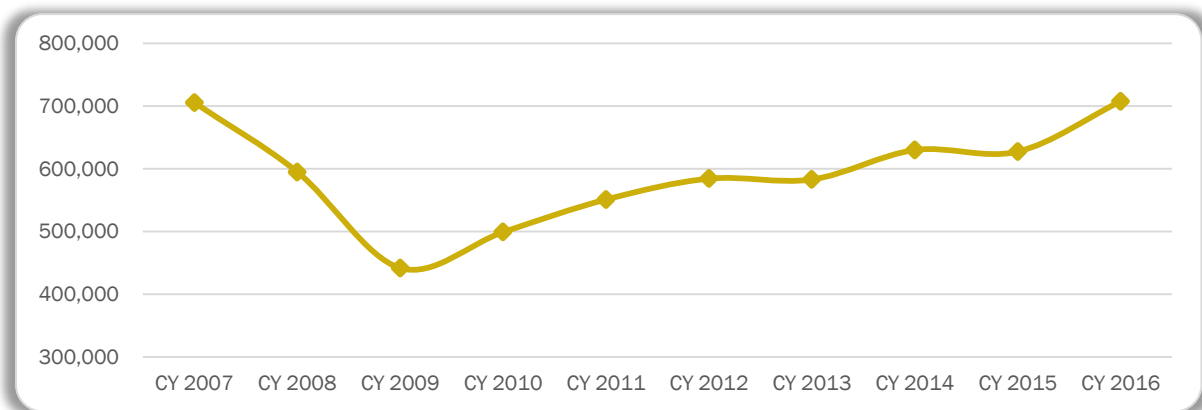
The table shows the number of passengers, tons of cargo, and operations at the Daytona Beach International Airport from 2012 to 2016:

<i>Daytona Beach Int'l</i>	<i>CY 2012</i>	<i>CY 2013</i>	<i>CY 2014</i>	<i>CY 2015</i>	<i>CY 2016</i>
Total Passengers	584,280	582,925	629,972	627,455	707,657
Tons of Cargo	120	136	138	141	139
Aircraft Operations	284,512	288,705	290,380	297,678	317,810

*Source: Daytona Beach International Airport*

#### **10-Year Historic Trend - Total Passengers**

This graph illustrates the 10-year total passenger trend for DAB

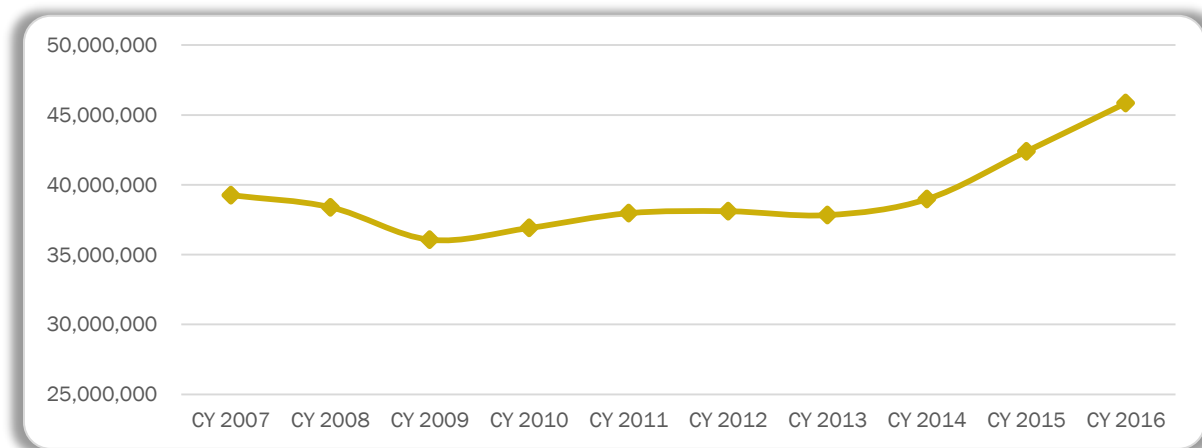


#### **Central Florida MPO Alliance Regional Total (MCO, SFB, MLB, DAB)**

<i>CFMPOA Region Total</i>	<i>CY 2012</i>	<i>CY 2013</i>	<i>CY 2014</i>	<i>CY 2015</i>	<i>CY 2016</i>
Total Passengers	38,105,676	37,827,866	38,974,069	42,390,015	45,848,548
Tons of Cargo	177,360	173,080	176,798	189,586	209,893
Aircraft Operations	1,052,866	981,215	922,711	990,924	1,020,620

#### **10-Year Historic Trend - Total Passengers**

This graph illustrates the 10-year total passenger trend for CFMPOA Region



## Passenger Rail Service

Central Florida's passenger rail service altered some travel patterns in the region. For decades the Central Florida region only had Amtrak as the primary passenger rail service provider. However, in May 2014 SunRail commuter rail Service began operating. Central Florida residents who live along the I-4 corridor now have a choice when traveling to/from work or other trip purposes. The 12 Phase I stations on the SunRail corridor connect the communities of Central Florida.

## SunRail Commuter Rail

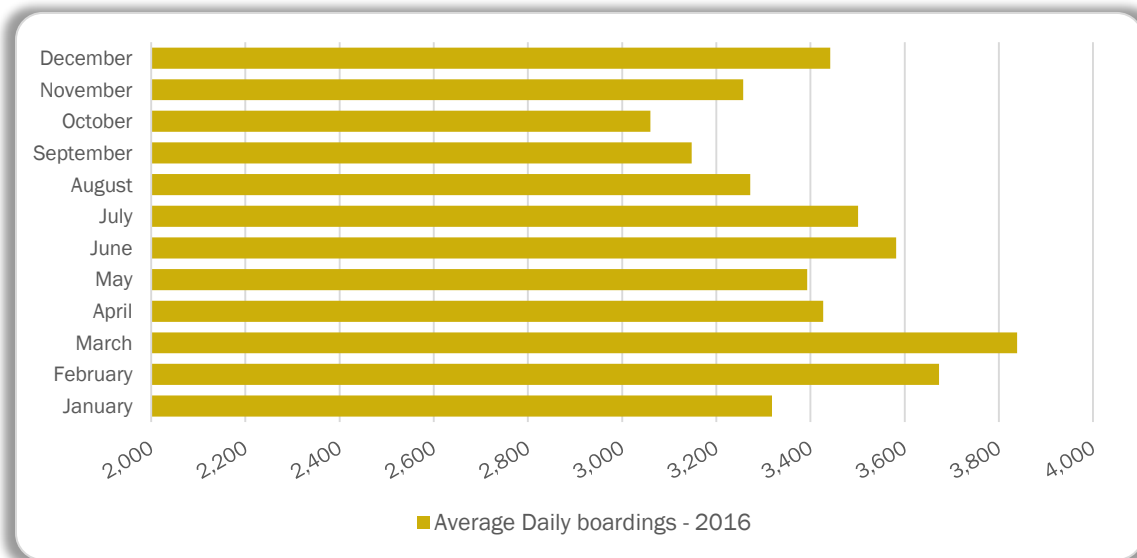


Phase 1 of SunRail comprises 31 miles with 12 stations along the former CSX "A" Line connecting Volusia County and Orange County through Downtown Orlando. The extensions proposed for Phase 2 would add a new northern terminus at DeLand and four more stations southward, terminating at Poinciana in Osceola County.

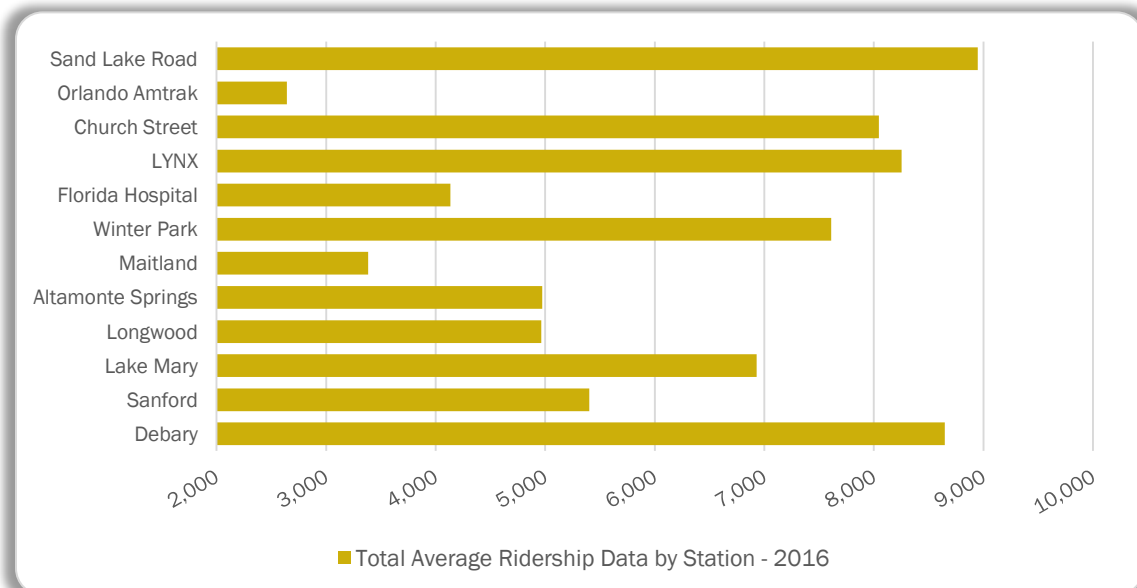
### SunRail Statistics - January 2016 to December 2016

The following graphics show the average daily boardings by month, the number of bicyclist and ADA boarding, and on-time performance by month:

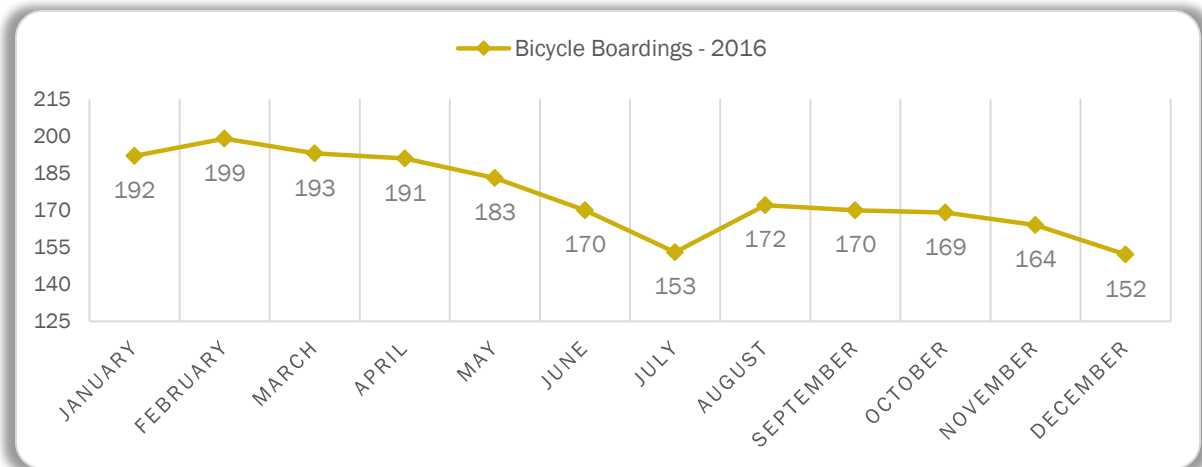
**Graph 1: Average daily boarding - 2016**



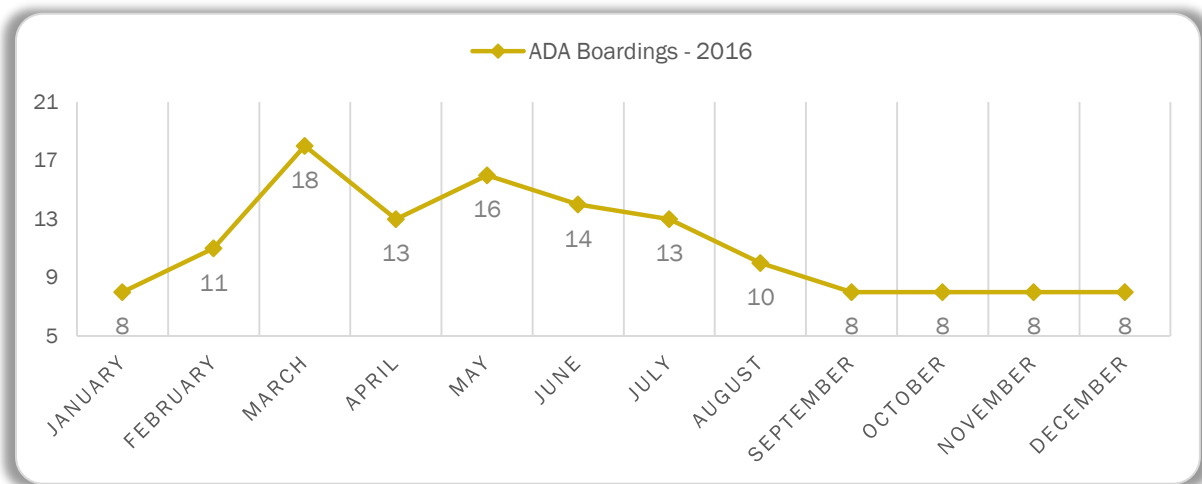
**Graph 2: Total average ridership data by station - 2016**



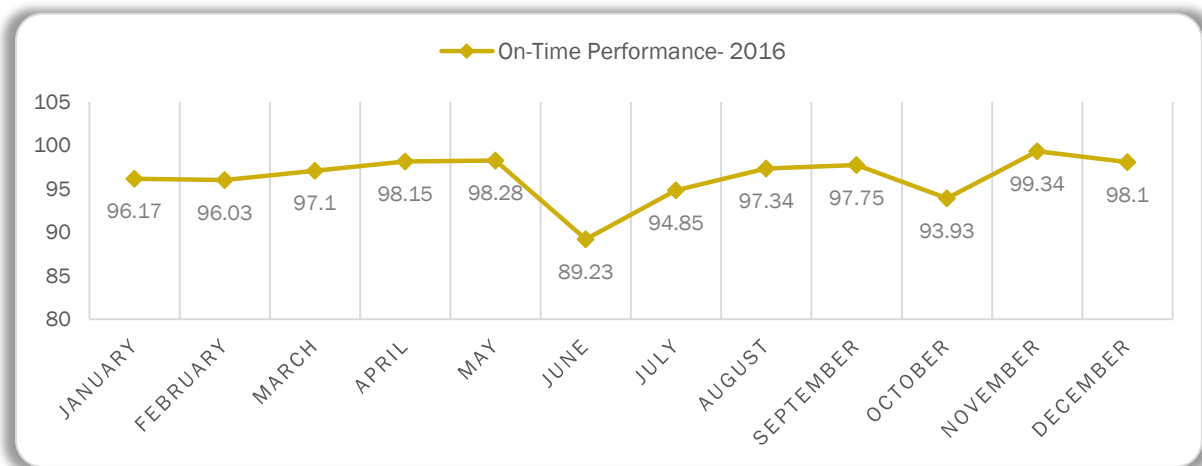
**Graph 3: Total Number of Bicycle Boarding- January 2016 to December 2016**



**Graph 4: Total Number of ADA Boarding- January 2016 to December 2016**



**Graph 5: On- Time Performance- January 2016 to December 2016**



Source: Central Florida Commuter Rail Commission



## Amtrak

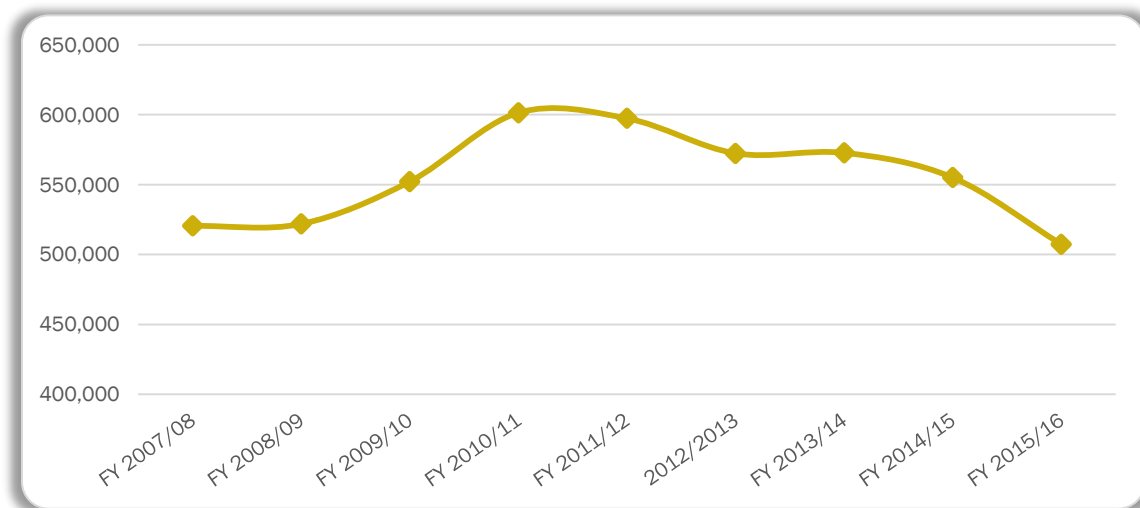
Amtrak provides long-distance passenger rail service at stations in Deland, Winter Park, Orlando, Kissimmee, Lakeland, and Winter Haven. In addition to its regular passenger service, Amtrak's Auto Train operates daily between Lorton, Virginia (outside of Washington, D.C.) and the Auto Train terminal off I-4 and SR 46 in Sanford. These tables show the number of rail passengers who used these stations from FY 2012 through FY 2016:

<i>Amtrak - Deland</i>	<i>FY 2011/12</i>	<i>FY 2012/13</i>	<i>FY 2013/14</i>	<i>FY 2014/15</i>	<i>FY 2015/16</i>
Number of Passengers	28,553	26,502	26,063	24,310	22,374
<i>Amtrak - Kissimmee</i>	<i>FY 2011/12</i>	<i>FY 2012/13</i>	<i>FY 2013/14</i>	<i>FY 2014/15</i>	<i>FY 2015/16</i>
Number of Passengers	48,521	44,906	43,543	41,424	37,773
<i>Amtrak - Lakeland</i>	<i>FY 2011/12</i>	<i>FY 2012/13</i>	<i>FY 2013/14</i>	<i>FY 2014/15</i>	<i>FY 2015/16</i>
Number of Passengers	24,696	22,829	21,816	21,526	20,475
<i>Amtrak - Orlando</i>	<i>FY 2011/12</i>	<i>FY 2012/13</i>	<i>FY 2013/14</i>	<i>FY 2014/15</i>	<i>FY 2015/16</i>
Number of Passengers	172,502	160,442	155,532	145,839	138,359
<i>AutoTrain - Sanford</i>	<i>FY 2011/12</i>	<i>FY 2012/13</i>	<i>FY 2013/14</i>	<i>FY 2014/15</i>	<i>FY 2015/16</i>
Number of Passengers	264,096	265,274	274,445	271,622	238,448
<i>Amtrak - Winter Haven</i>	<i>FY 2011/12</i>	<i>FY 2012/13</i>	<i>FY 2013/14</i>	<i>FY 2014/15</i>	<i>FY 2015/16</i>
Number of Passengers	24,565	22,205	22,273	21,965	21,684
<i>Amtrak - Winter Park</i>	<i>FY 2011/12</i>	<i>FY 2012/13</i>	<i>FY 2013/14</i>	<i>FY 2014/15</i>	<i>FY 2015/16</i>
Number of Passengers	33,455	30,142	29,013	28,310	28,205
<i>Amtrak - CFMPOA Region</i>	<i>FY 2011/12</i>	<i>FY 2012/13</i>	<i>FY 2013/14</i>	<i>FY 2014/15</i>	<i>FY 2015/16</i>
Number of Passengers	597,322	572,300	572,685	554,996	507,318

Source: National Railroad Passenger Corporation d.b.a. Amtrak

### 10-Year Historic Trend - Amtrak Ridership

This graph illustrates the 10-year Amtrak total ridership trend for the seven stations within the CFMPOA region.



### Port Canaveral Statistics

Port Canaveral is one of the busiest cruise ports in the world with 3.9 million passengers passing through during FY 2015/16. The port also serves cargo lines and has advanced shipper capabilities. Although the port is in Brevard County, and thus outside of the Orlando Metropolitan Area, much of the cargo that is handled at the port, and many of the port's cruise ship passengers, are destined for this area. As a result, Port Canaveral is considered an important regional asset.

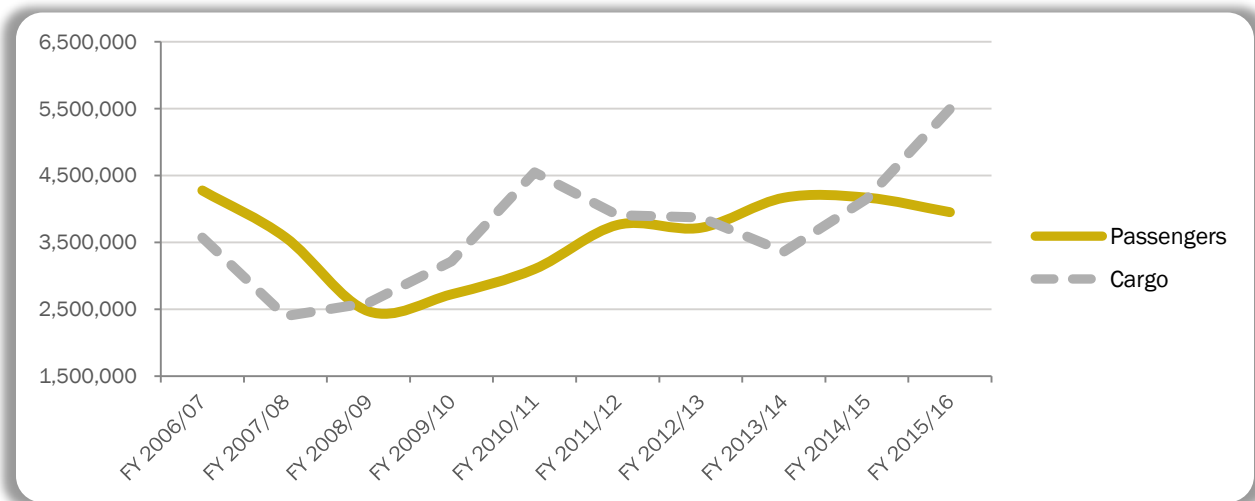
This port's freight and passenger statistics from FY 2012 through FY 2016 are shown in the following table:

Port Canaveral	FY 2011/12	FY 2012/13	FY 2013/14	FY 2014/15	FY 2015/16
Number of Passengers	4,004,283	3,717,586	4,167,258	4,168,666	3,951,127
Tons of Cargo	3,904,986	3,874,266	3,362,281	4,206,590	5,497,028

Source: Canaveral Port Authority, Cruise Market Watch 2013 statistics (World's Top Ten Cruise Ports- 2013)

### 10-Year Historic Trend - Port Canaveral

This graph illustrates the 10-year passenger and cargo trend for Port Canaveral.



### Space Launch Statistics

A form of transportation that is unique to the CFMPOA area is space travel. The area is home to the Cape Canaveral Spaceport in Brevard County, where NASA's space launches have taken place for more than 50 years. Although The Space Shuttle program ended in 2011, it is being replaced with NASA's Commercial Crew Program (CCP). CCP is an innovative public-private partnership that helps the aerospace industry in the U.S. to develop space transportation systems that can safely launch astronauts to the International Space Station (ISS) and other low-Earth orbit destinations.

NASA has awarded more than \$1.4 billion in Space Act Agreements (SAAs) under two Commercial Crew Development (CCDev) and the Commercial Crew Integrated Capability (CCiCap) initiatives. The top companies that have contributed in development and certification phases of the Commercial Crew Program are Boeing, SpaceX and Sierra Nevada Corporation.

The number of space launches from 2012 through 2016 is shown in the table below.

Space Launches	CY 2012	CY 2013	CY 2014	CY 2015	CY 2016
Space Shuttle	0	0	0	0	0
Satellite/Spacecraft	10	10	15	16	18
Total Launches	10	10	15	16	18

Source: Space Florida