



2024 Traffic Volume Summary

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INTRODUCTION

The Space Coast Transportation Planning Organization (SCTPO) collects annual traffic counts to support a variety of transportation monitoring programs. The traffic counts also support local government transportation concurrency programs that monitor roadway capacities and traffic volumes and manage the traffic impacts of planned developments.

The SCTPO utilizes a consultant to collect forty-eight (48) hour directional traffic counts by fifteen (15) minute intervals at over 500 specified locations. These traffic counts are organized by the following planning areas:

NORTH covering Titusville and adjacent communities;

CENTRAL covering the Cocoa, Rockledge, Viera, and adjacent communities;

SOUTH covering the Melbourne, West Melbourne, Palm Bay, and adjacent communities;

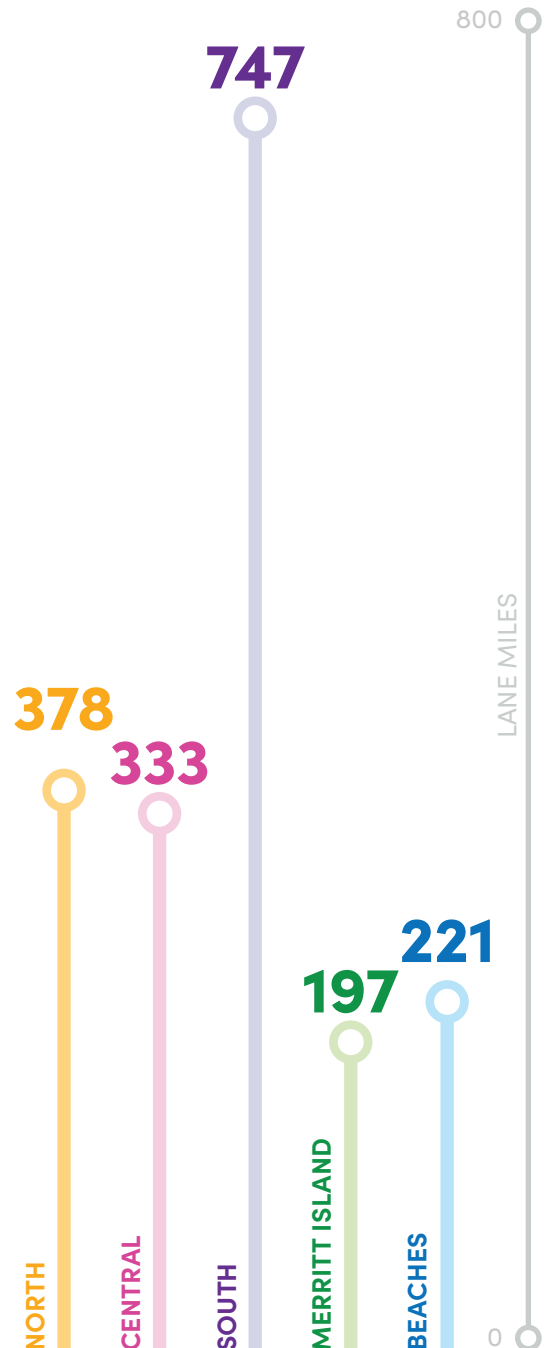
MERRITT ISLAND covering unincorporated Merritt Island; and

BEACHES covering Cape Canaveral, Cocoa Beach, Indian Harbour Beach, and other beachside communities.

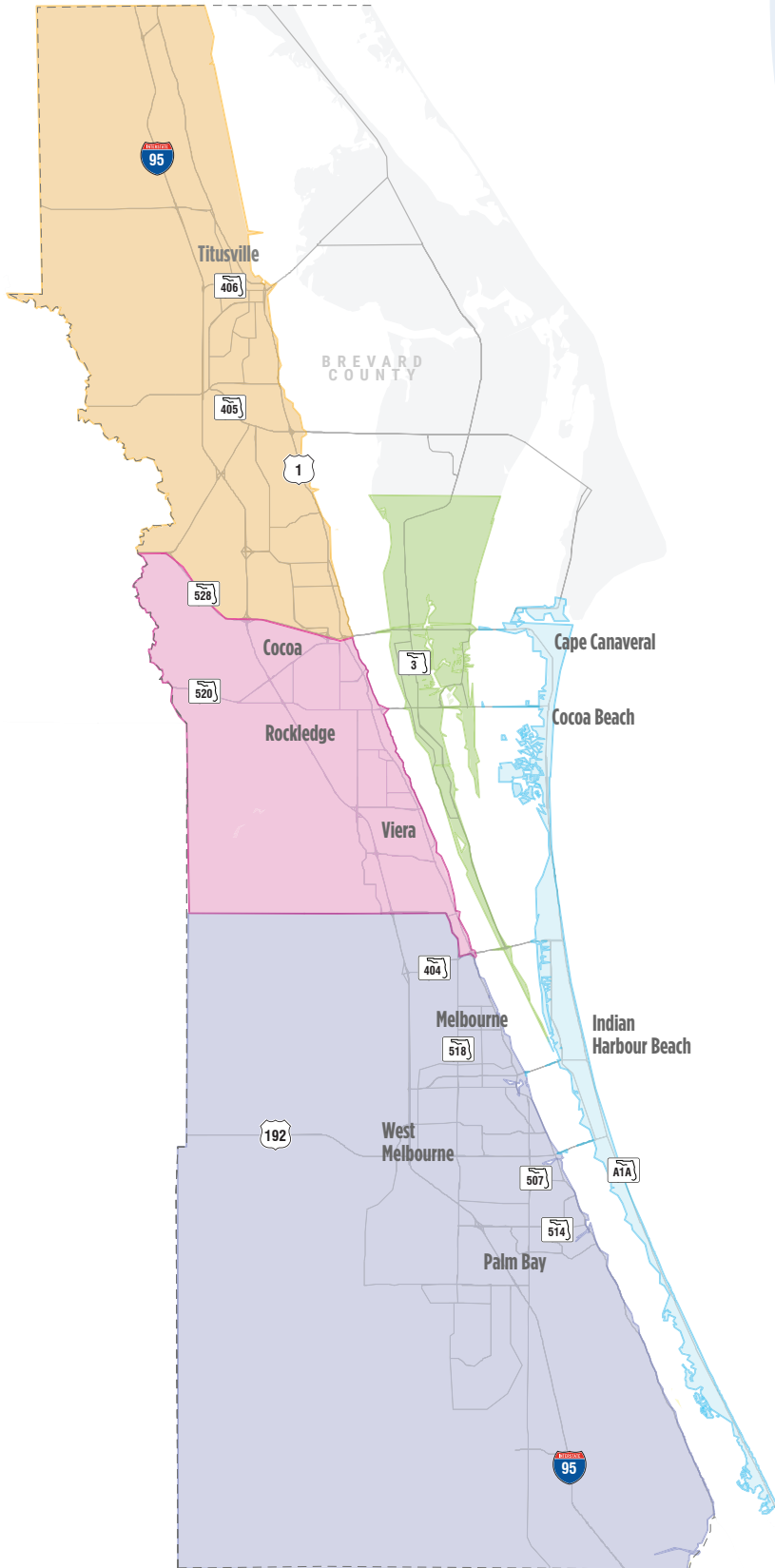
The planning areas above vary in size and the number of roadways counted. **Figure 1** shows the number of lane miles in each planning area while **Figure 2** shows the planning area boundaries. Lane miles are calculated by multiplying the length of each roadway segment by the number of lanes on the segment.

Traffic counts are taken during the weekday period from 12:01 AM, Monday, through 12:00 noon Friday. Florida Department of Transportation (FDOT) seasonal factors are used to adjust raw traffic counts and develop Average Annual Daily Traffic (AADT) volumes. The SCTPO applies a reduced seasonal adjustment on certain local and collector roadways that experience less seasonal fluctuation in traffic volumes. The complete 2024 volume counts are provided in the SCTPO Traffic Counts Historical Report.

FIGURE 1:
Lane Miles by Planning Area

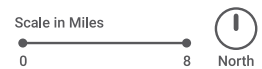


**FIGURE 2:
SCTPO Planning Areas**



PLANNING AREAS

- North
- Central
- South
- Merritt Island
- Beaches
- Brevard County





2024 TRAFFIC VOLUME SUMMARY

The 2024 SCTPO traffic volumes were reviewed to identify notable trends in each planning area that should be monitored closely in future years.

HIGHEST VOLUMES

Figure 3 displays the average 2024 volume in each planning area, with the largest average volumes being in the South planning area. This coincides with the large population and employment areas in Melbourne and Palm Bay. **Table 1** summarizes the roadway segments in each planning area with the highest roadway volumes in 2024, as well as a comparison to where these segments ranked in 2023. The largest volumes were collected in the South planning area on Palm Bay Road. **Figure 4** shows where the top volume segments are located in each planning area.

FIGURE 3:
Average 2024 Volume by Planning Area

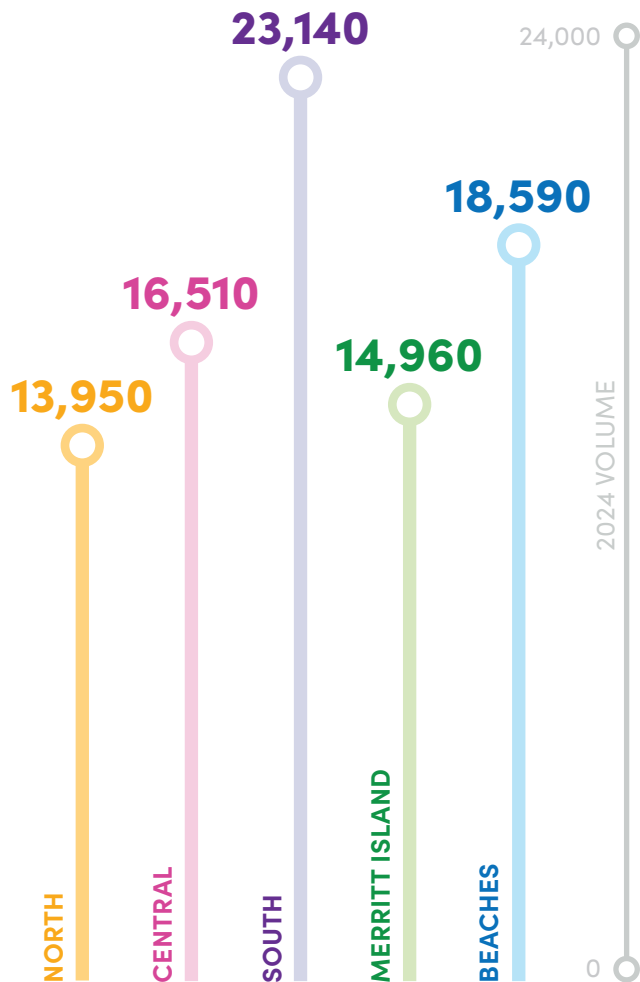


FIGURE 4:
Highest Traffic Volumes by Planning Area

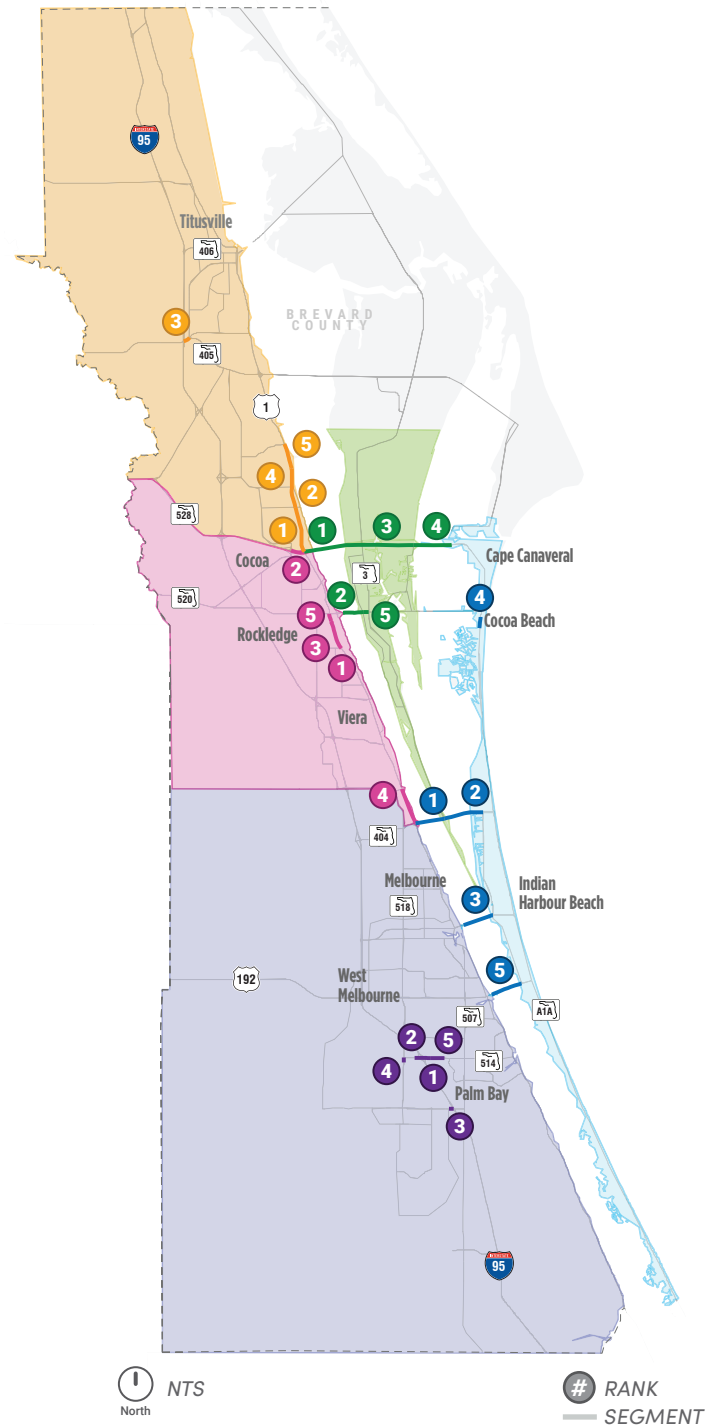


TABLE 1:
Highest Traffic Volumes by Planning Area

Planning Area	Roadway	From	To	2023 Planning Area Rank	2024 Planning Area Rank	2024 Traffic Volume
North	US 1	SR 528	Canaveral Groves Blvd.	3	1	34,720
	US 1	Canaveral Groves Blvd.	Camp Rd.	1	2	32,550
	SR 50	I-95	SR 405	2	3	32,040
	US 1	Camp Rd.	Broadway Blvd.	8	4	31,420
	US 1	Broadway Blvd.	Fay Blvd.	6	5	30,490
Central	US 1	Barton Blvd.	Florida Ave.	1	1	42,810
	SR 528	Industry Rd.	US 1	2	2	40,070
	US 1	Florida Ave.	Rosa Jones Dr.	6	3	38,570
	US 1	Pineda Cswy. (SR 404)	Suntree Blvd.	4	4	37,740
	US 1	Rosa Jones Dr.	SR 520	5	5	37,120
South	Palm Bay Rd.	I-95 East Ramp	Hollywood Blvd.	2	1	74,330
	Palm Bay Rd.	Culver Dr.	I-95 East Ramp	1	2	65,550
	Malabar Rd.	San Filippo Dr.	I-95	3	3	57,100
	Minton Rd.	Emerson Dr.	Palm Bay Rd.	23	4	56,950
	Palm Bay Rd.	Hollywood Blvd.	Dairy Rd.	4	5	56,490
Merritt Island	SR 528	US 1	N Courtenay Pkwy. (SR 3)	2	1	53,870
	SR 520	Humphrey Bridge	N. Tropical Tr.	1	2	44,050
	SR 528	N Courtenay Pkwy. (SR 3)	N Banana River Dr.	4	3	41,270
	SR 528	N Banana River Dr.	SR 401	5	4	37,810
	SR 520	N. Tropical Tr.	SR 3	3	5	37,660
Beaches	Pineda Cswy.(SR 404)	US 1	Tropical Tr.	1	1	45,150
	Pineda Cswy. (SR 404)	S Tropical Tr.	S Patrick Dr. (SR 513)	2	2	42,630
	Eau Gallie Blvd. (SR 518)	Causeway	S Patrick Dr. (SR 513)	3	3	35,930
	SR A1A	Fisher Dr.	St. Lucie Ln.	5	4	35,190
	US 192	Causeway	Riverside Dr.	4	5	34,370



2024 TRAFFIC VOLUME SUMMARY

LARGEST VOLUME CHANGE BY PERCENTAGE

Figure 5 displays how much the average volume in each planning area has changed from 2023 to 2024. Volumes have been reduced by 7 percent in the Beaches planning areas. Table 2 summarizes the roadway planning areas with the highest roadway volume change by percentage. The largest changes in volume were collected in the North planning area on SR 407, the South planning area on Minton Road, and in the Merritt Island planning area on N. Tropical Trail.

FIGURE 5: Percent Change in Average Volume by Planning Area (2023-2024)

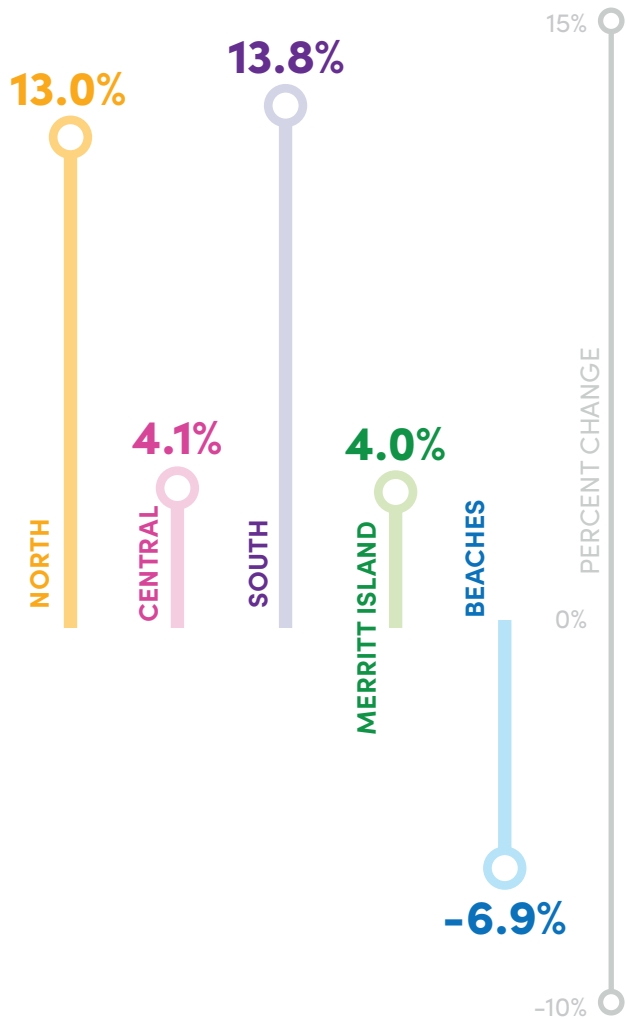


FIGURE 6: Highest Traffic Volume Change Segments by Planning Area

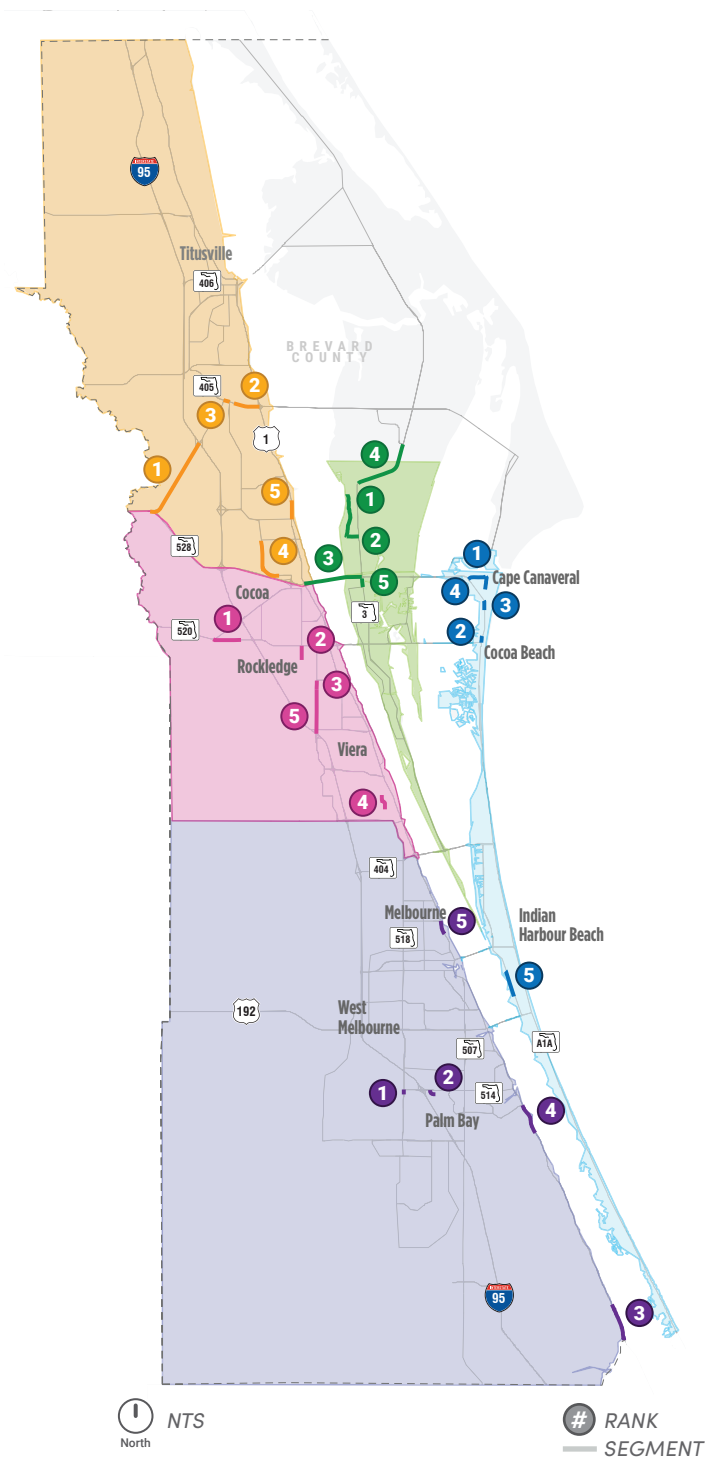


TABLE 2:
Largest Volume Percentage Change by Planning Area

Planning Area	Roadway	From	To	2023-2024 Volume Change Percentage	2024 Traffic Volume
North	SR 407	SR 528	I-95	108%	11,870
	SR 405 (Columbia Blvd.)	Sisson Rd.	US 1	51%	18,830
	SR 405 (Columbia Blvd.)	SR 407	Grissom Pkwy.	39%	26,670
	Grissom Pkwy.	Fed Ex Center	Canaveral Groves Blvd.	33%	11,000
	US 1	Camp Rd.	Broadway Blvd.	29%	31,420
Central	SR 520	SR 524	Friday Rd.	28%	16,300
	Clearlake Rd.	Pluckebaum Rd.	SR 520	23%	5,180
	Fiske Blvd. (SR 519)	Eyster Blvd.	Barton Blvd.	20%	26,450
	Pinehurst Ave.	Spyglass Hill Dr.	Fargo Dr.	-20%	4,150
	Fiske Blvd. (SR 519)	I-95/Barnes Blvd.	Eyster Blvd.	20%	31,870
South	Minton Rd.	Emerson Dr.	Palm Bay Rd.	67%	56,950
	Bass Pro Dr.	Riviera Dr.	Palm Bay Rd.	-60%	4,190
	US 1	Indian River County Line	Micco Rd.	55%	26,910
	US 1	Malabar Rd. (SR 514)	Port Malabar Blvd.	53%	26,900
	US 1	Lake Washington Rd.	Parkway Dr.	51%	43,960
Merritt Island	N. Tropical Tr.	Hall Rd.	Crisafulli Rd.	64%	1,590
	Hall Rd.	N Tropical Tr.	N. Courtenay Pkwy. (SR 3)	47%	3,160
	SR 528	US 1	N. Courtenay Pkwy. (SR 3)	37%	53,870
	N. Courtenay Pkwy. (SR 3)	N Tropical Tr.	Space Commerce Way	30%	12,040
	N. Courtenay Pkwy. (SR 3)	Pioneer Rd.	S Ramps SR 528	24%	33,650
Beaches	George King Blvd.	Dave Nisbet Dr.	N Atlantic Ave.	-56%	6,550
	SR A1A	SR 520	Osceola Ln.	40%	27,830
	SR A1A	Buchanan Ave.	N Atlantic Ave.	33%	32,560
	N. Atlantic Ave.	Central Blvd.	George King Blvd.	29%	5,810
	Riverside Dr.	Riviera Dr.	Paradise Blvd.	27%	10,920



2024 TRAFFIC VOLUME SUMMARY

MOST CONGESTED ROADWAYS

By dividing 2024 roadway volumes by roadway capacities, the SCTPO calculated volume-to-capacity (v/c) ratios that indicate how congested a roadway is. The SCTPO considered a roadway to be congested if the v/c ratio is greater than 0.85. A v/c ratio over 1.0 indicates a roadway that is over capacity. The SCTPO adopted new capacities in September 2024 based on guidance in the FDOT 2023 Multimodal Quality/Level of Service Handbook, which resulted in larger changes in v/c ratios compared to previous years.

Figure 7 shows the average v/c ratio by planning area, indicating that the South planning area is on average the most congested. Table 3 summarizes the roadway segments in each planning area with the highest v/c ratios. The 2023 v/c ratio rank by planning area is also provided to demonstrate how the v/c ranking has changed compared to the 2024 v/c ratios. Minton Road and Palm Bay Road in the South planning area have especially high v/c ratios.

FIGURE 7:
Average 2024 V/C Ratio by Planning Area

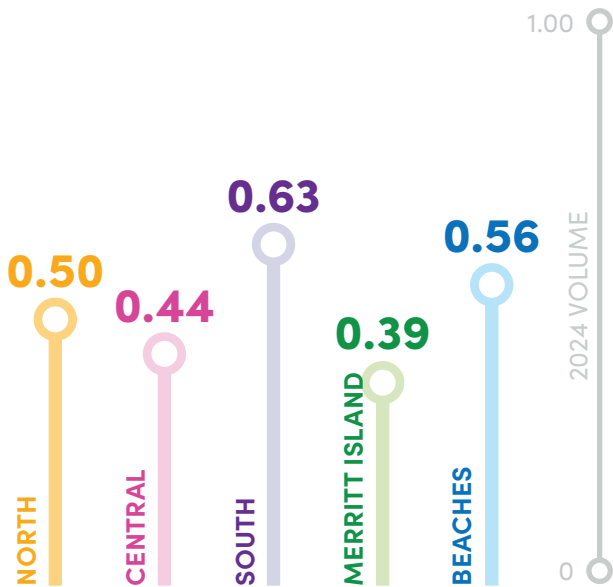


FIGURE 8:
Most Congested Roadways by Planning Area

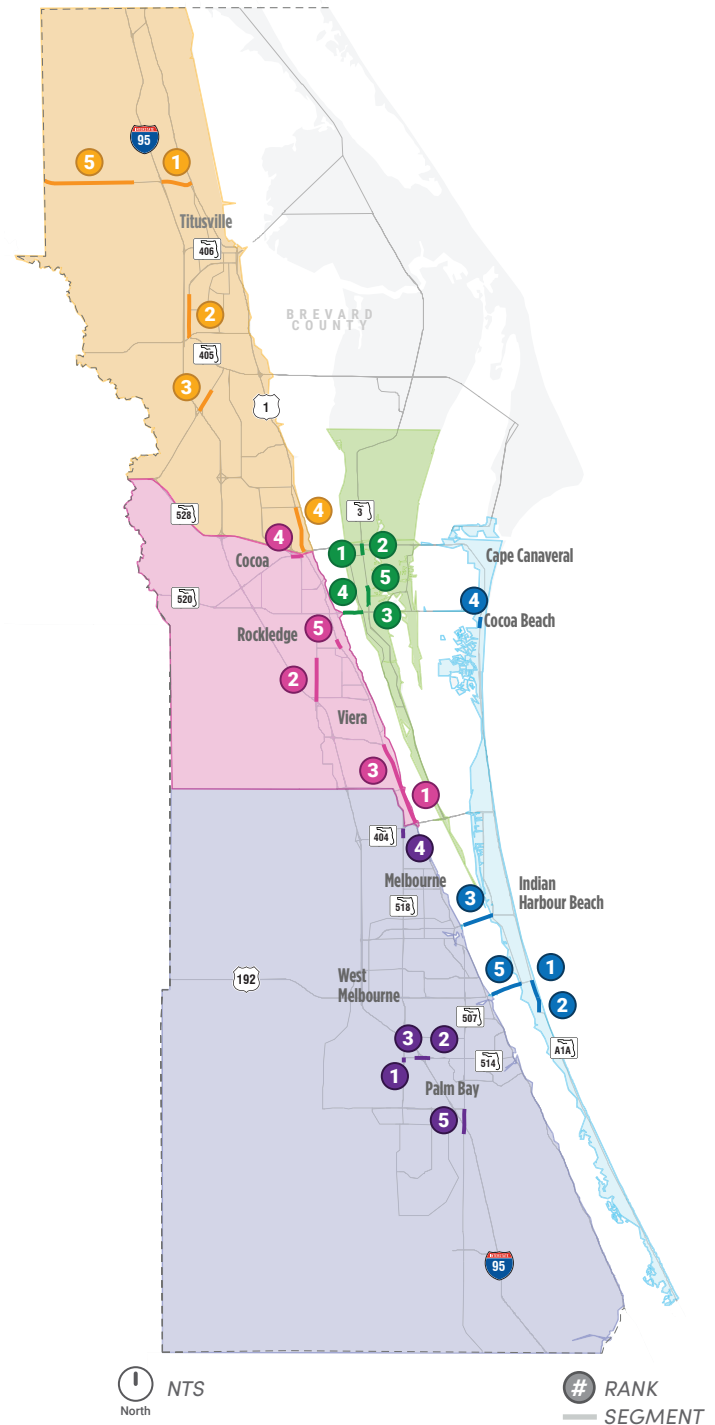


TABLE 3:
Most Congested Roadways by Planning Area

Planning Area	Roadway	From	To	2023 V/C Ratio Planning Area Rank	2024 V/C Ratio	2024 Traffic Volume
North	SR 46	I-95	US 1	2	1.25	13,110
	SR 405 (South St.)	SR 50	Fox Lake Rd.	1	1.14	19,850
	SR 407	I-95	Shepard Dr.	36	0.93	13,080
	US 1	SR 528	Canaveral Groves Blvd.	13	0.90	34,720
	SR 46	Volusia Co.	Fawn Lake Blvd.	3	0.90	7,400
Central	US 1	Pineda Cswy. (SR 404)	Suntree Blvd.	9	0.98	37,740
	Fiske Blvd. (SR 519)	I-95/Barnes Blvd.	Eyster Blvd.	18	0.83	31,870
	US 1	Suntree Blvd.	Viera Blvd.	12	0.81	31,070
	Clearlake Rd. (SR 501)	N. Walmart Entrance	SR 524	71	0.77	17,490
	US 1	Barton Blvd.	Florida Ave.	16	0.75	42,810
South	Minton Rd.	Emerson Dr.	Palm Bay Rd.	10	1.56	56,950
	Palm Bay Rd.	I-95 East Ramp	Hollywood Blvd.	6	1.37	74,330
	Palm Bay Rd.	Culver Dr.	I-95 East Ramp	5	1.21	65,550
	Wickham Rd.	Business Center	Pineda Cswy. (SR 404)	14	1.13	43,590
	Babcock St.	Foundation Park Blvd.	Malabar Rd. (SR 514)	1	1.13	24,480
Merritt Island	N. Courtenay Pkwy. (SR 3)	S Ramps SR 528	N Ramps SR 528	8	0.90	34,400
	N. Courtenay Pkwy. (SR 3)	Pioneer Rd.	S Ramps SR 528	10	0.88	33,650
	N. Courtenay Pkwy. (SR 3)	Merritt Ave.	Needle Blvd.	3	0.83	31,490
	SR 520	Humphrey Bridge	N.Tropical Tr.	2	0.82	44,050
	N. Courtenay Pkwy. (SR 3)	Needle Blvd.	Lucas Rd.	6	0.81	30,650
Beaches	SR A1A	Miami Ave.	US 192	1	1.06	19,500
	SR A1A	Ocean Ave.	Miami Ave.	2	0.97	17,120
	Eau Gallie Blvd. (SR 518)	Causeway	S Patrick Dr. (SR 513)	9	0.95	35,930
	SR A1A	Fisher Dr.	St. Lucie Ln.	4	0.93	35,190
	US 192	Causeway	Riverside Dr.	10	0.91	34,370



2024 TRAFFIC VOLUME SUMMARY

WEEKEND PORT TRAFFIC VOLUME COMPARISON

The SCTPO collected weekend traffic volume counts on roadways surrounding Port Canaveral to better understand the impacts of weekend cruise traffic surrounding Port Canaveral. These weekend traffic volumes were compared to the weekday traffic volumes collected as part of the regular traffic data collection in 2024. Weekend traffic volumes are generally lower than weekday traffic volumes since there are fewer commuters, but traffic volumes may be higher in this area due to weekend activities like shopping, beachgoing, and cruises. **Table 4** shows significant volumes increases during the weekend on SR A1A and George King Boulevard, but volume decreases on SR 401 and N. Atlantic Avenue, which may give an indication of where cruise traffic is located on cruise weekends. **Figure 9** shows where the weekend port count locations were taken.

TABLE 4:
2024 Weekday and Weekend AADT Comparison in Port Canaveral Area

Weekend Port Count Number	Roadway	From	To	2023 Weekday AADT	2024 Weekend AADT	2024 Weekend to Weekday AADT Comparison
1	George King Blvd.	Dave Nisbet Dr.	N Atlantic Ave.	6,550	14,480	121%
2	N. Atlantic Ave.	Central Blvd.	George King Blvd.	5,810	4,470	-23%
3	SR A1A	Central Blvd.	SR 401	30,100	43,440	44%
4	SR AIA	N Atlantic Ave.	Central Blvd.	26,760	27,070	1%
5	SR 401	SR 528	CCAFS	12,800	3,080	-76%

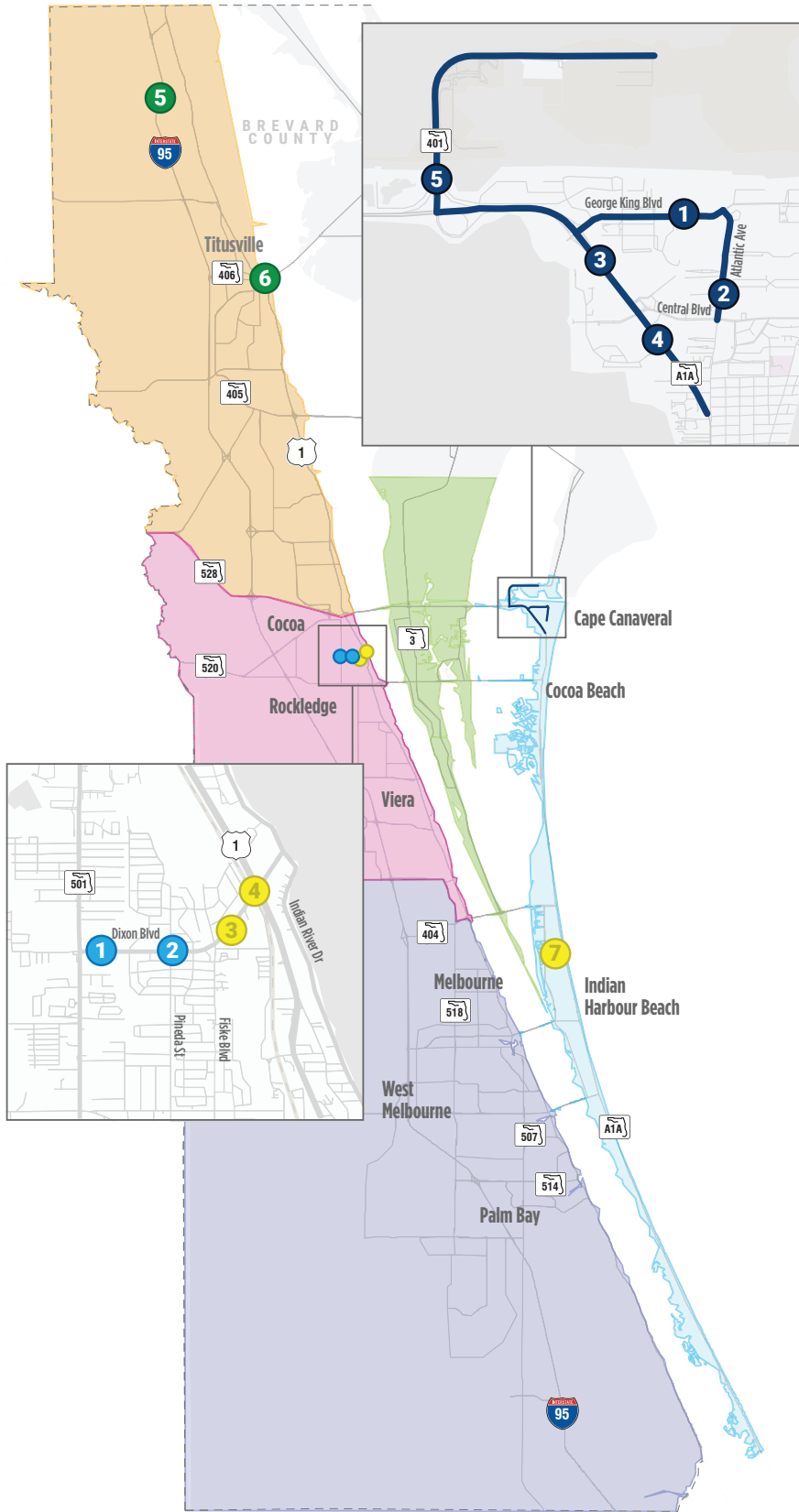
PEDESTRIAN AND BICYCLE COUNT COLLECTION

The SCTPO collected pedestrian and bicycle counts at seven trail and roadway locations in 2024. The daily counts at these locations ranged between 15 to 138 pedestrians and 64 to 205 bicyclists. **Table 5** shows the pedestrian and bicycle counts at each location and **Figure 9** shows where the pedestrian/bicycle counts were taken.

TABLE 5:
2024 Pedestrian and Bicycle Counts

Pedestrian/Bicycle Count Number	Count Location	Count Type	Daily Pedestrians	Daily Bicyclists
1	Dixon Blvd. at Westminster Asbury Crosswalk	Intersection Count	138	113
2	Dixon Blvd. at Pineda St.	Intersection Count	95	90
3	Dixon Blvd. at McDonalds (east of Fiske Blvd.)	Mid-Block Roadway Count	91	79
4	Dixon Blvd. at Railroad Tracks	Mid-Block Roadway Count	49	64
5	Aurantia Road Trailhead	Trail Count	15	205
6	Regional Rail Trail Overpass	Trail Count	21	119
7	Jackson Street, East of Pineapple St./Stinger Ln.	Mid-Block Roadway Count	114	182

FIGURE 9:
Weekend Port and Pedestrian/Bicycle Count Locations



PEDESTRIAN/BICYCLE COUNTS

- Trail Count
- Intersection Count
- Mid-Block Count

- Weekend Port Roadway Count
- - - - Brevard County



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