

2017
North Central Texas



Bicycle and Pedestrian Traffic Count Report



North Central Texas
Council of Governments

April 2018

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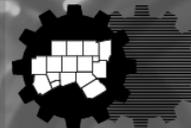


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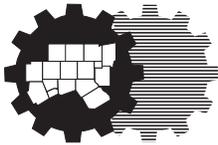
What is NCTCOG?

The North Central Texas Council of Governments is a voluntary association of cities, counties, school districts, and special districts which was established in January 1966 to assist local governments in **planning** for common needs, **cooperating** for mutual benefit, and **coordinating** for sound regional development.

It serves a 16-county metropolitan region centered around the two urban centers of Dallas and Fort Worth. Currently the Council has **236 members**, including 16 counties, 168 cities, 24 independent school districts, and 28 special districts. The area of the region is approximately **12,800 square**

miles, which is larger than nine states, and the population of the region is about **7 million**, which is larger than 38 states.

NCTCOG's structure is relatively simple; each member government appoints a voting representative from the governing body. These voting representatives make up the **General Assembly** which annually elects a 17-member Executive Board. The **Executive Board** is supported by policy development, technical advisory, and study committees, as well as a professional staff of 362.



NCTCOG's offices are located in Arlington in the Centerpoint Two Building at 616 Six Flags Drive (approximately one-half mile south of the main entrance to Six Flags Over Texas).

North Central Texas Council of Governments
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Arlington, Texas 76005-5888
(817) 640-3300

NCTCOG's Department of Transportation

Since 1974 NCTCOG has served as the Metropolitan Planning Organization (MPO) for transportation for the Dallas-Fort Worth area. NCTCOG's Department of Transportation is responsible for the regional planning process for all modes of transportation. The department provides technical support and staff assistance to the Regional Transportation

Council and its technical committees, which compose the MPO policy-making structure. In addition, the department provides technical assistance to the local governments of North Central Texas in planning, coordinating, and implementing transportation decisions.

Prepared in cooperation with the Texas Department of Transportation and the U. S. Department of Transportation, Federal Highway Administration, and Federal Transit Administration.

"The contents of this report reflect the views of the authors who are responsible for the opinions, findings, and conclusions presented herein. The contents do not necessarily reflect the views or policies of the Federal Highway Administration, the Federal Transit Administration, or the Texas Department of Transportation."

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Introduction

The objective of the North Central Texas Council of Governments' (NCTCOG) annual bicycle and pedestrian traffic count report is to provide regional stakeholders and the public a better understanding of how much activity is occurring on shared-use paths throughout the region.

Thirty count stations are included in this report for transportation purposes, with additional count stations in the region also collecting data for areas that are primarily recreational in nature. In 2017, over 8 million bicycle and pedestrian traffic counts were recorded.

The City of Allen installed their first count equipment in November 2016 along the Watters Trail near Dr. E. T. Boon Elementary School and along the Cottonwood Trail near US 75. The 2017 report reflects the first full year of data collected at these two locations.

Exhibit 1 identifies the number of count stations per agency, while Exhibit 2 identifies the existing shared-use path corridors with equipment collecting data. All count stations in the North Central Texas region are on shared-use paths, with the

exception of one permanent on-street bicycle counter installed on the Bellaire Drive bike lanes in Fort Worth. The Bellaire Drive bicycle counter did not collect any data in 2017 due to battery failure.

The permanent equipment utilizes inductive loop and passive-infrared sensor technology to distinguish bicyclists from pedestrians, as well as their direction of travel.

During 2017, there were several instances in which some count equipment failed to collect data due to battery failure or unusual traffic counts resulted due to infestations of insects. These gaps and adjustments to the data are noted in the report. Statistics are not available for the full year due to partial year data for some counters.

Exhibit 1: Counters by City (2017)

Agency	Number of Installed Permanent Counters
City of Allen	2
City of Dallas ¹	14
City of Denton	2
City of Fort Worth ²	1
Tarrant Regional Water District ³	4
City of North Richland Hills	1
City of Plano	7
Total	31

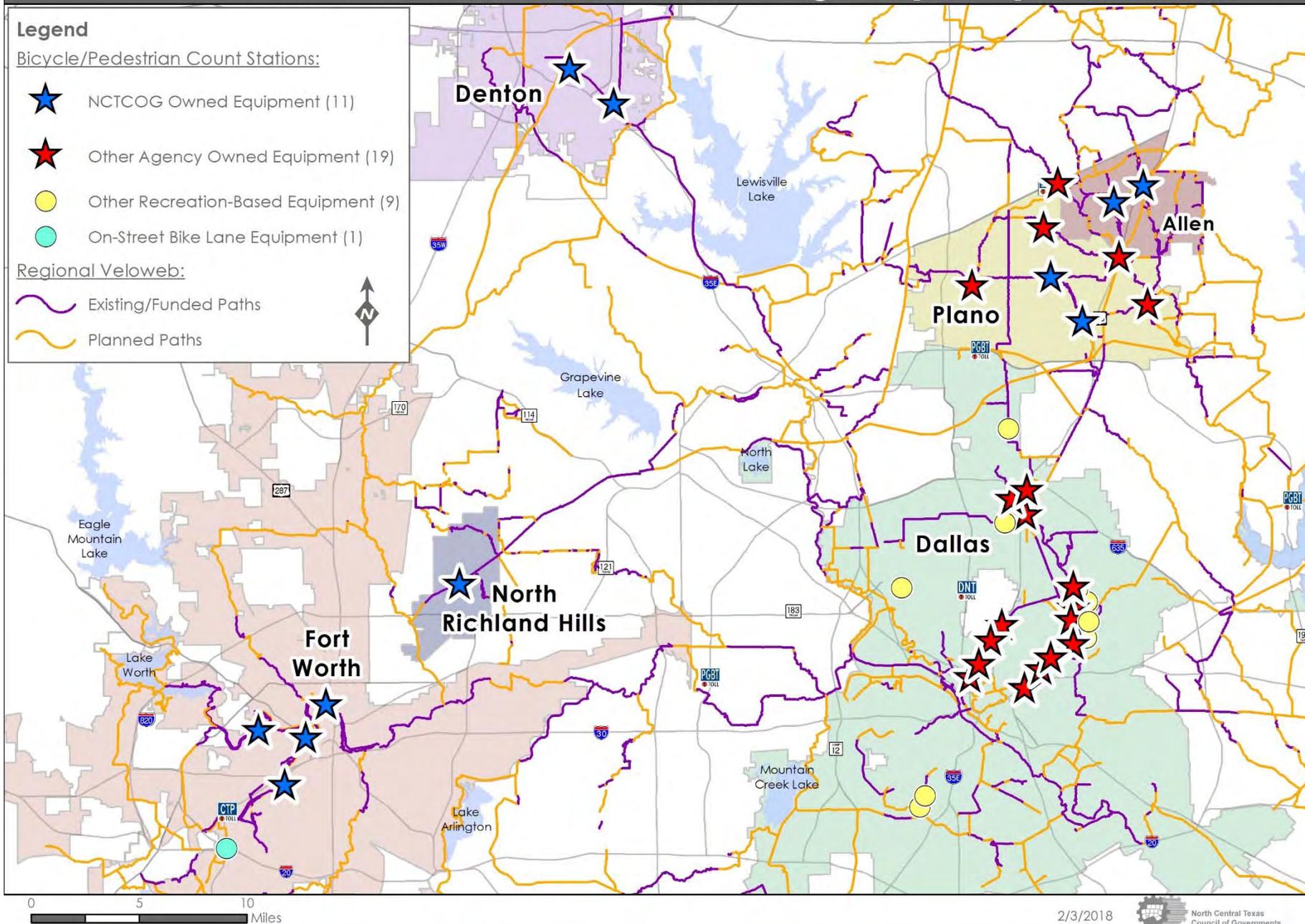
¹ Dallas has 26 counters, 14 of which are reported by NCTCOG for transportation purposes.

² Fort Worth counter is the only permanent on-street bicycle counter.

³ Tarrant Regional Water District counters are located in Fort Worth

Exhibit 2:

Bicycle and Pedestrian Count Stations in the North Central Texas Region (2017)



Mode Share Split

In 2016, the regional average mode share split of all count stations in the region combined was 42 percent bicyclists and 58 percent pedestrians. In 2017 the proportion of traffic for all counters in the region combined was more evenly split between pedestrians at 46 percent and bicyclists at 54 percent (see Exhibit 3). From 42 percent in 2016 to over half at 54 percent in 2017, bicyclist mode share saw an increase of 28 percent. Exhibit 4 compares the mode share split between 2016 and 2017 count locations.



Bicycle and pedestrian traffic along the Katy Trail in Dallas.

Exhibit 3:

**Average Mode Share Split of Count Stations
in the North Central Texas Region (2017)**

■ Pedestrians ■ Bicyclists

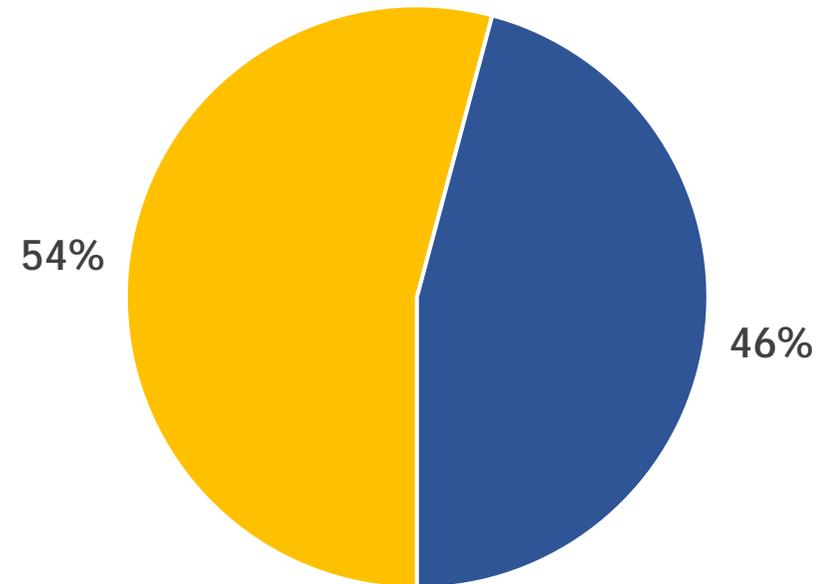
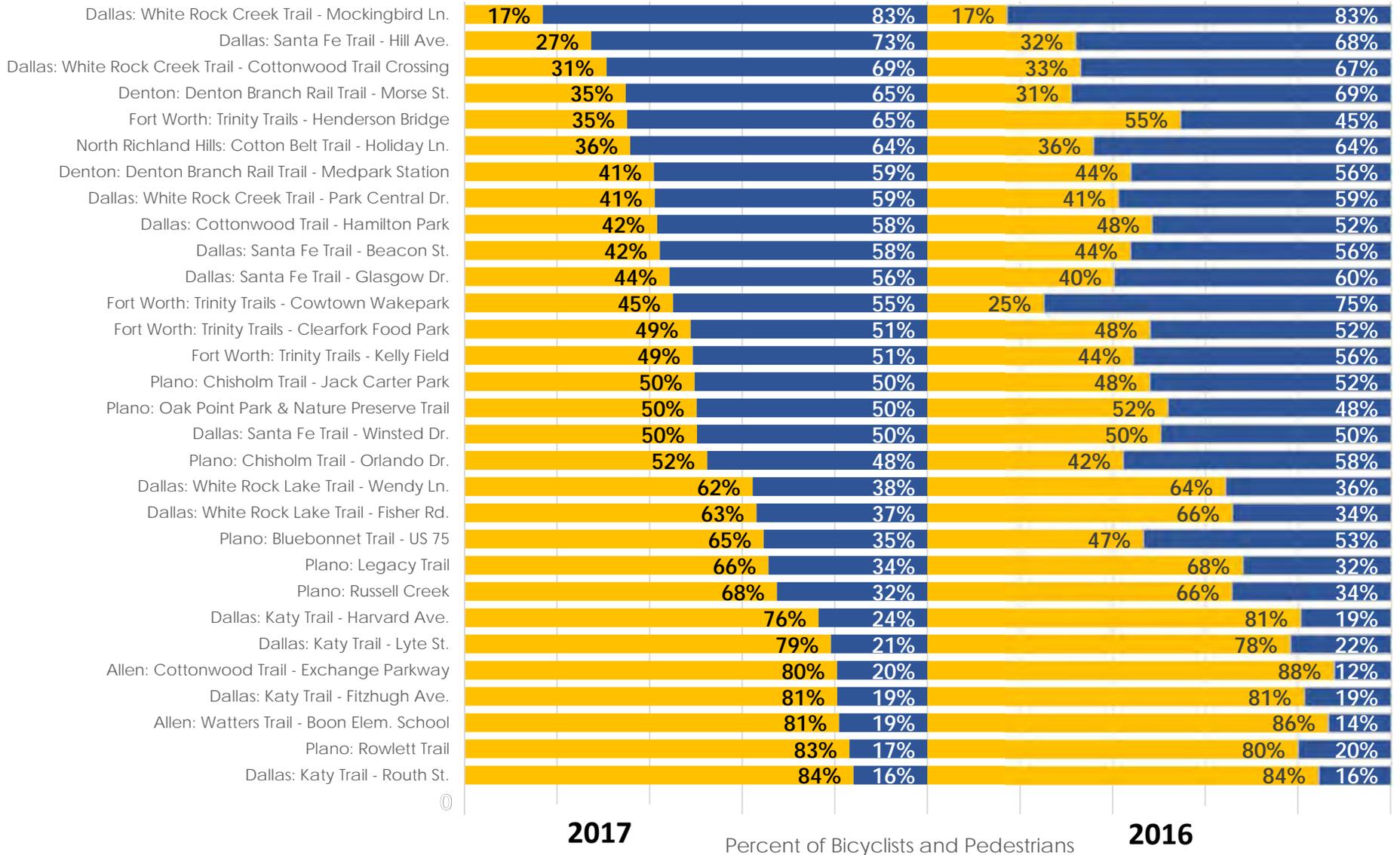


Exhibit 4:

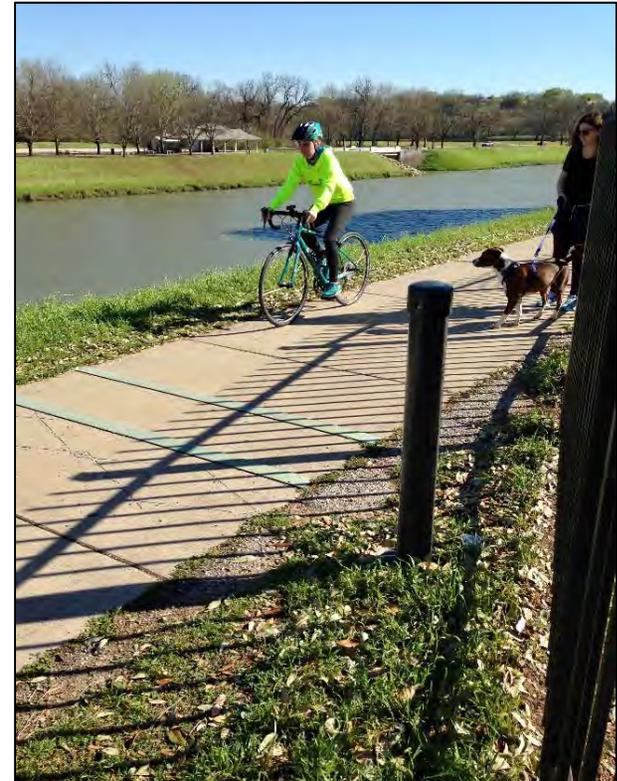
Mode Share Split by Count Station (2017 vs. 2016)

■ Pedestrians ■ Bicyclists



Monthly Snapshot

Exhibit 5 compares the total bicycle and pedestrian traffic counts in October 2017 and October 2016 at 21 locations in which data was recorded both years. The average temperature in both months was similar, with October 2017 being 72 degrees and October 2016 being 76 degrees. Total monthly traffic counts ranged from approximately 900 (less busy areas) to over 134,000 traffic counts (very busy areas) during October 2017. Generally, count stations recording the highest volumes of users reported slightly fewer counts in October 2017 than in October 2016.



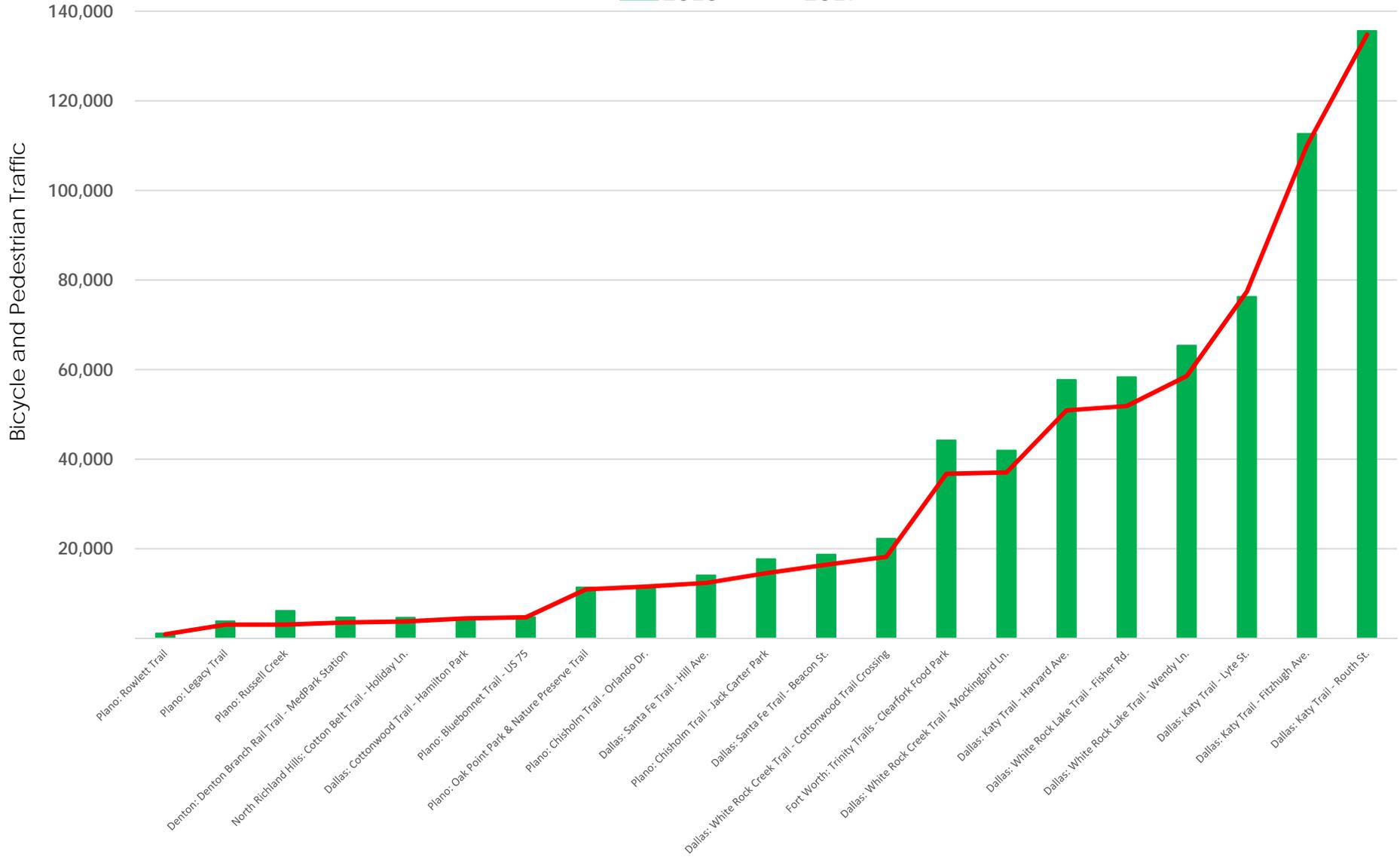
Data collection along the Trinity Trails near the Clearfork Food Park in Fort Worth

Exhibit 5:

Total Traffic by Count Station

October 2016 and 2017

2016 2017



Note: On-Street Count Station in Fort Worth only monitors bicycle activity and was not included.

Average Traffic Counts

A standard metric used in the transportation planning and engineering fields is annual average daily traffic (AADT). This is a measure of the average number of motor vehicles traveling a roadway. By applying the same methodology to bicyclists and pedestrians, seasonal variation of traffic counts throughout a year is averaged to develop one statistic that summarizes how much bicycling and walking activity is occurring at a specific location.

Seventeen count stations in the region collected 365 days of uninterrupted data in 2017. Exhibit 6 identifies bicycle and pedestrian AADT in 2017 for these 17 locations. Count stations that collected partial year data in 2017 were omitted. Two locations along the Katy Trail in Dallas averaged more than 3,000 bicycle and pedestrian traffic counts per day, which was the highest in the region. Exhibit 6 also identifies the percent change from those count stations' 2016 AADT and 2017 AADT.

Exhibits 7-12 chart the average daily traffic by month among the count station locations for each city involved in collecting bicycle and pedestrian traffic data.

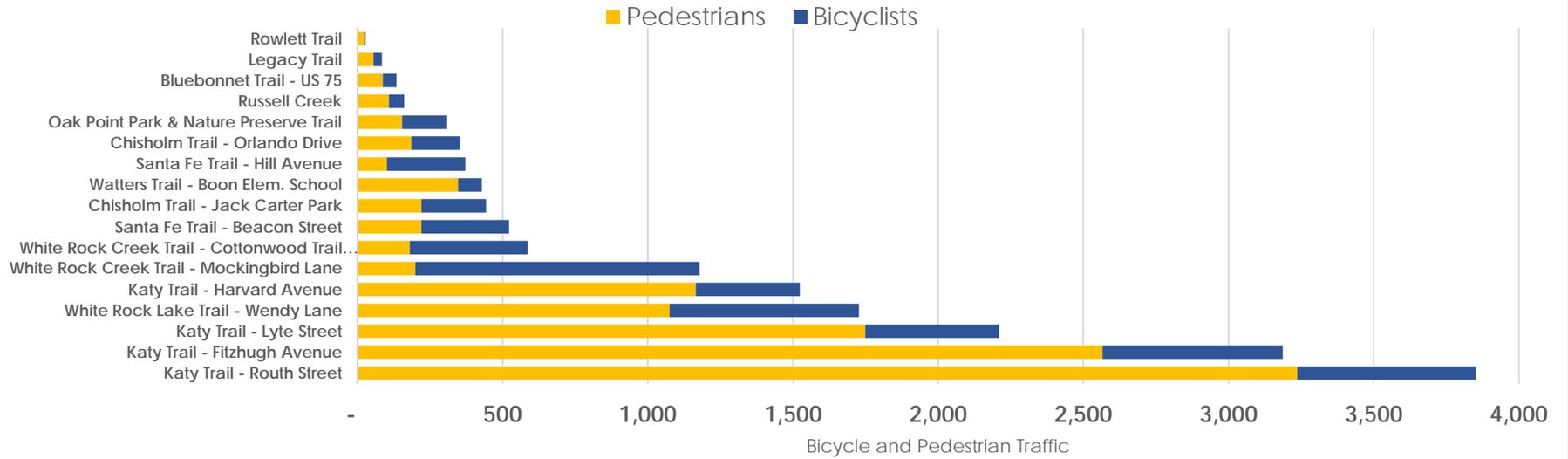


Data collection along the Trinity Trails near Kelly Field in Fort Worth.

Note: Exhibit 6 reflects count stations that collected 365 days of uninterrupted data in 2017 and 2016. Count stations that collected partial year data are omitted.

Exhibit 6:

Annual Average Daily Bicycle and Pedestrian Traffic (2017)



Percentage of Change in Annual Average Daily Bicycle and Pedestrian Traffic (2016-2017)

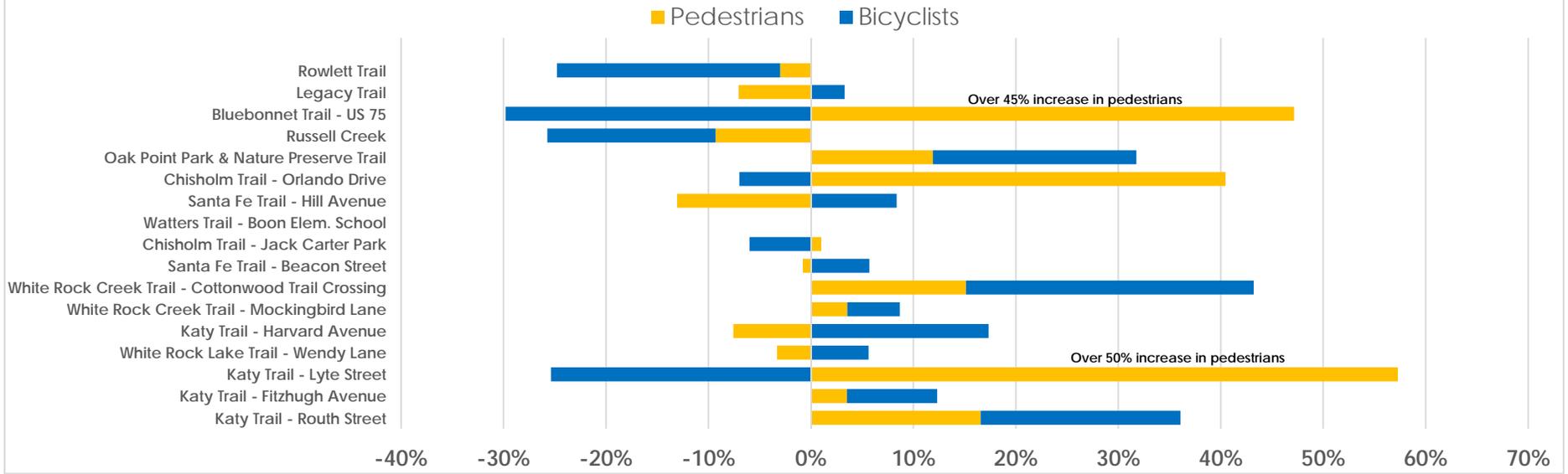


Exhibit 7:

Dallas Count Stations

Average Daily Traffic by Month (2017)

- Cottonwood Trail - Hamilton Park
- Katy Trail - Lyte Street
- Katy Trail - Harvard Avenue
- Santa Fe Trail - Glasgow Drive
- White Rock Lake Trail - Fisher Road
- White Rock Creek Trail - Park Central Drive
- Katy Trail - Routh Street
- Santa Fe Trail - Hill Avenue
- Santa Fe Trail - Winsted Drive
- White Rock Creek Trail - Mockingbird Lane
- White Rock Creek Trail - Cottonwood Trail Crossing
- Katy Trail - Fitzhugh Avenue
- Santa Fe Trail - Beacon Street
- White Rock Lake Trail - Wendy Lane

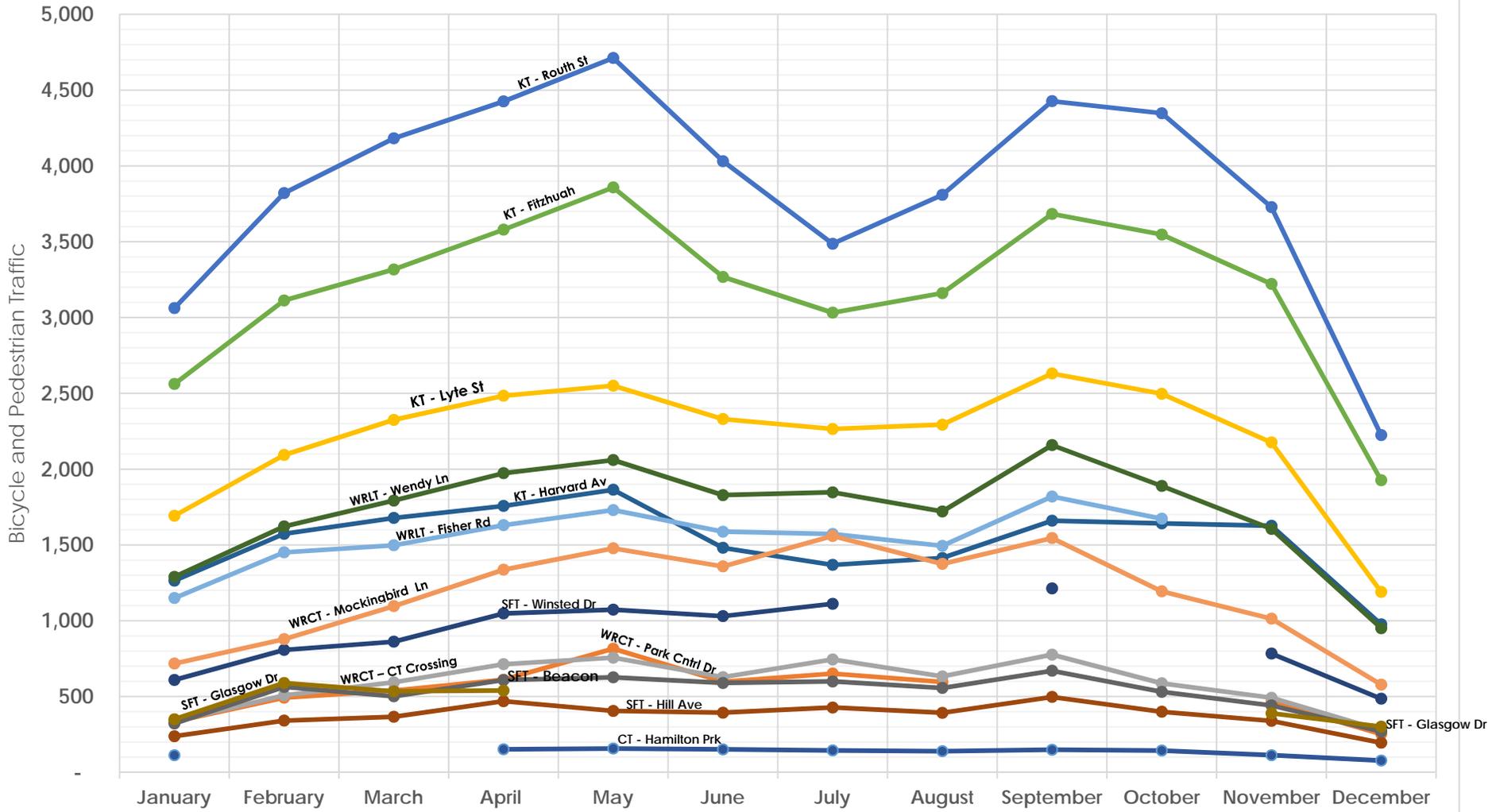


Exhibit 8:

Denton Count Stations Average Daily Traffic by Month (2017)

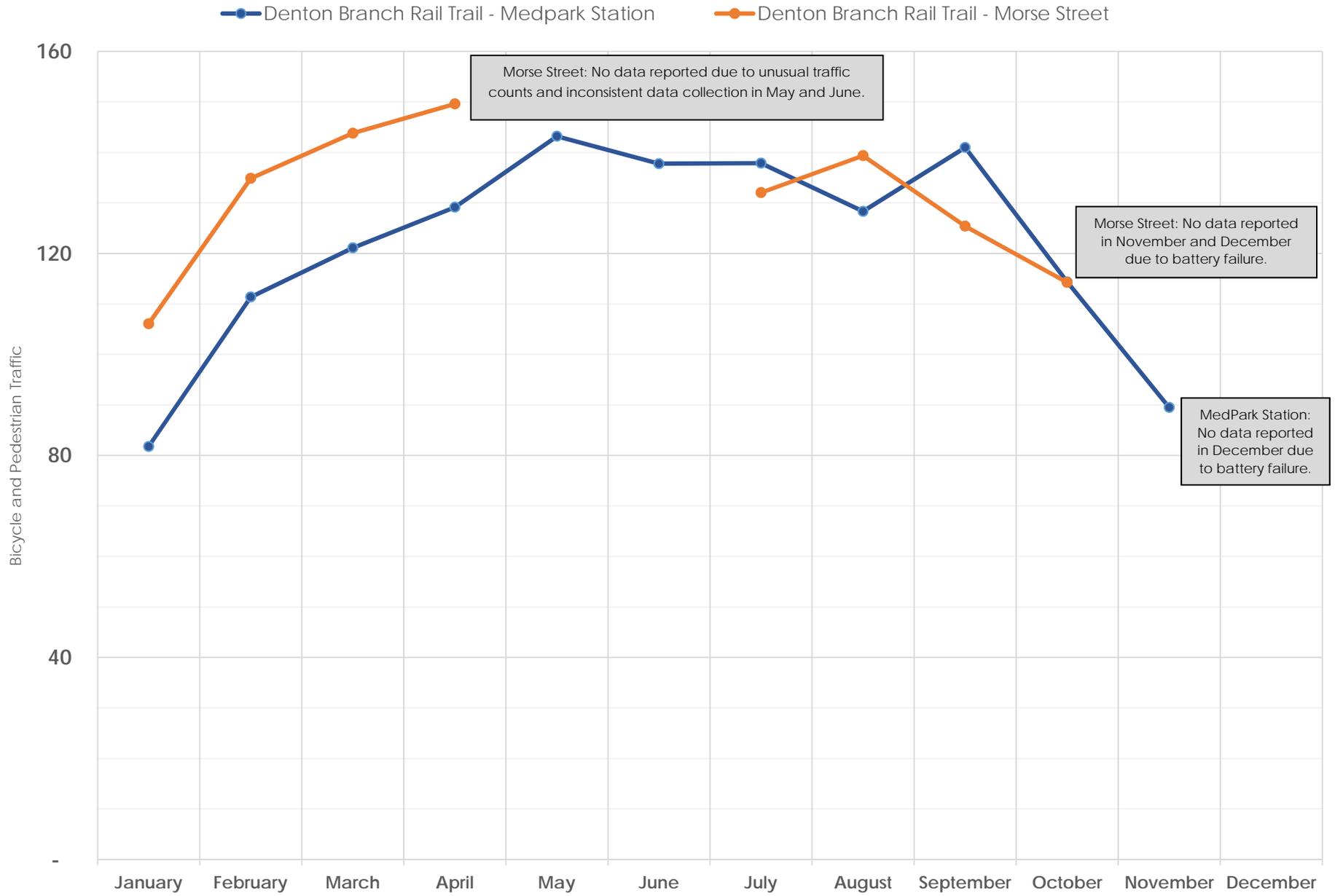


Exhibit 9:

Fort Worth Count Stations

Average Daily Traffic by Month (2017)

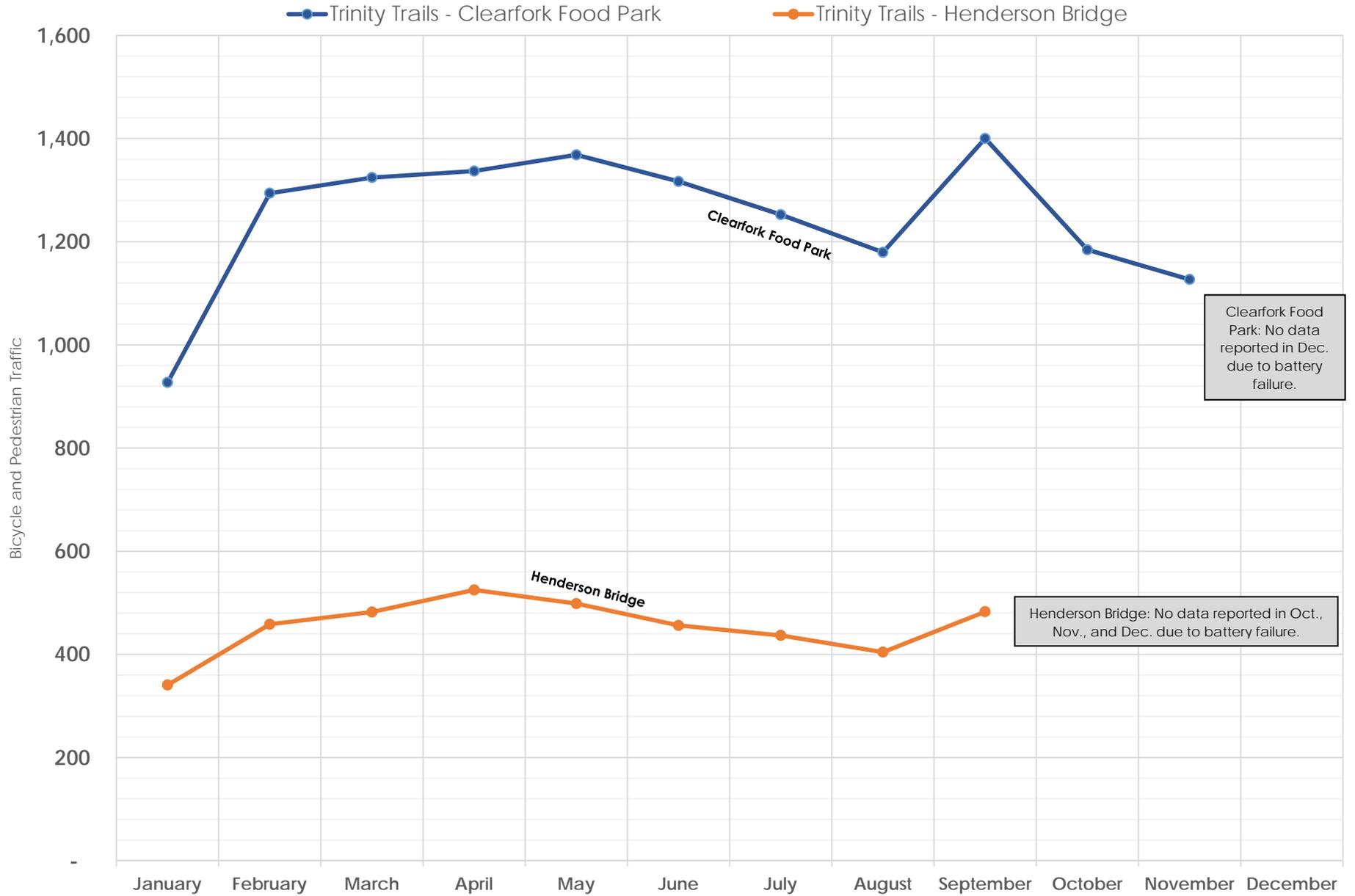


Exhibit 10:

North Richland Hills Count Station Average Daily Traffic by Month (2017)

—●— Cotton Belt Trail - Holiday Lane

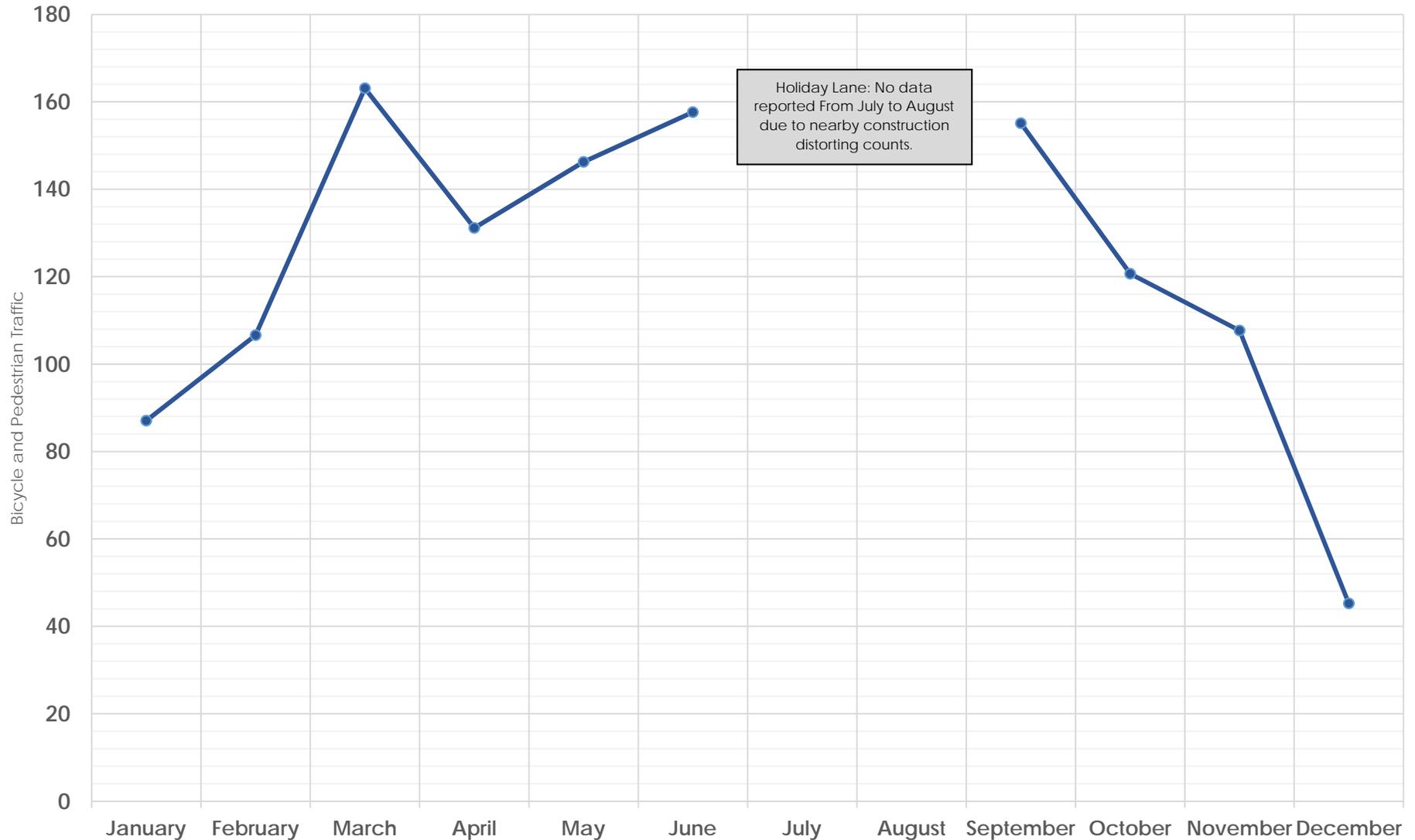


Exhibit 11:

Plano Count Stations

Average Daily Traffic by Month (2017)

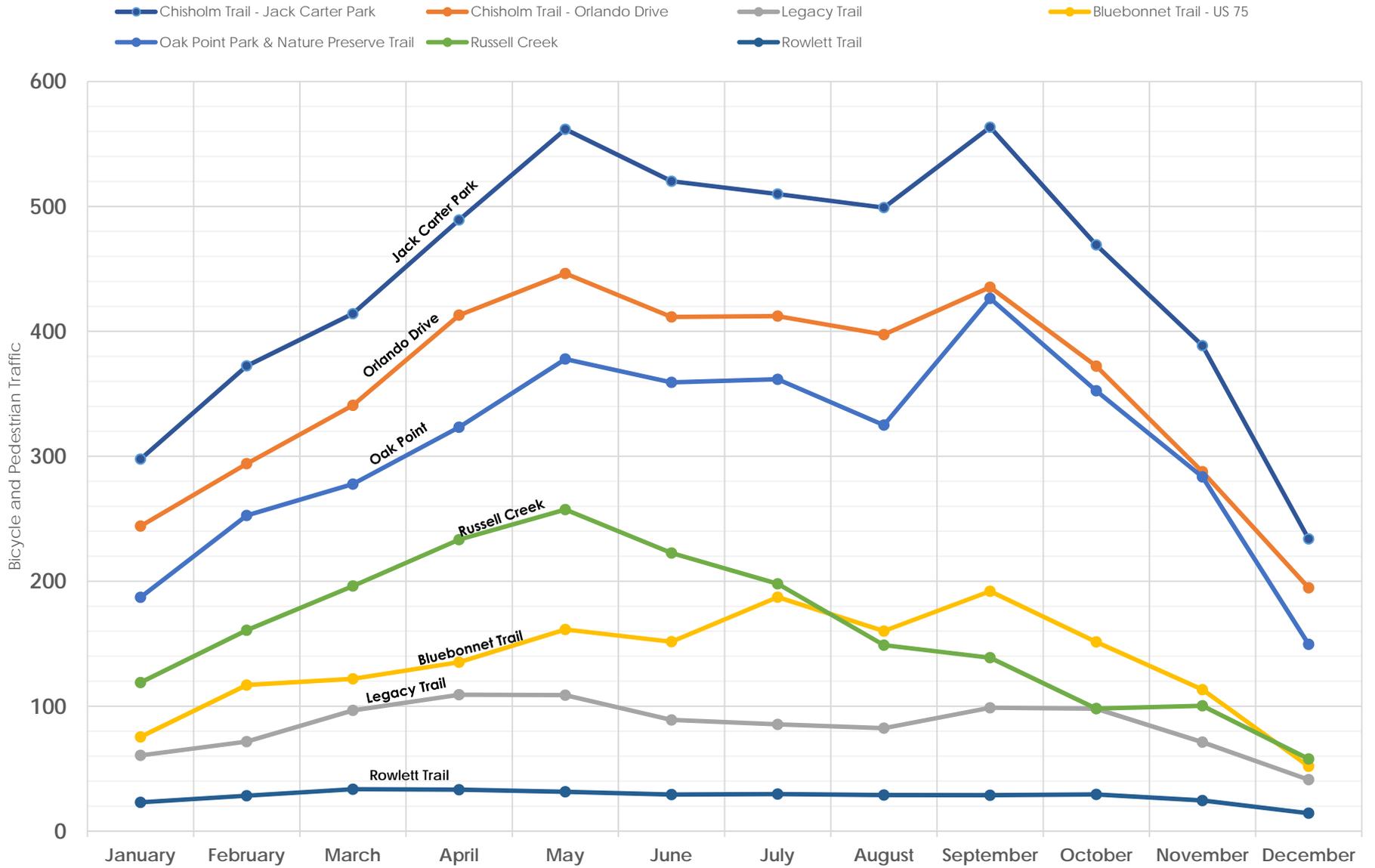
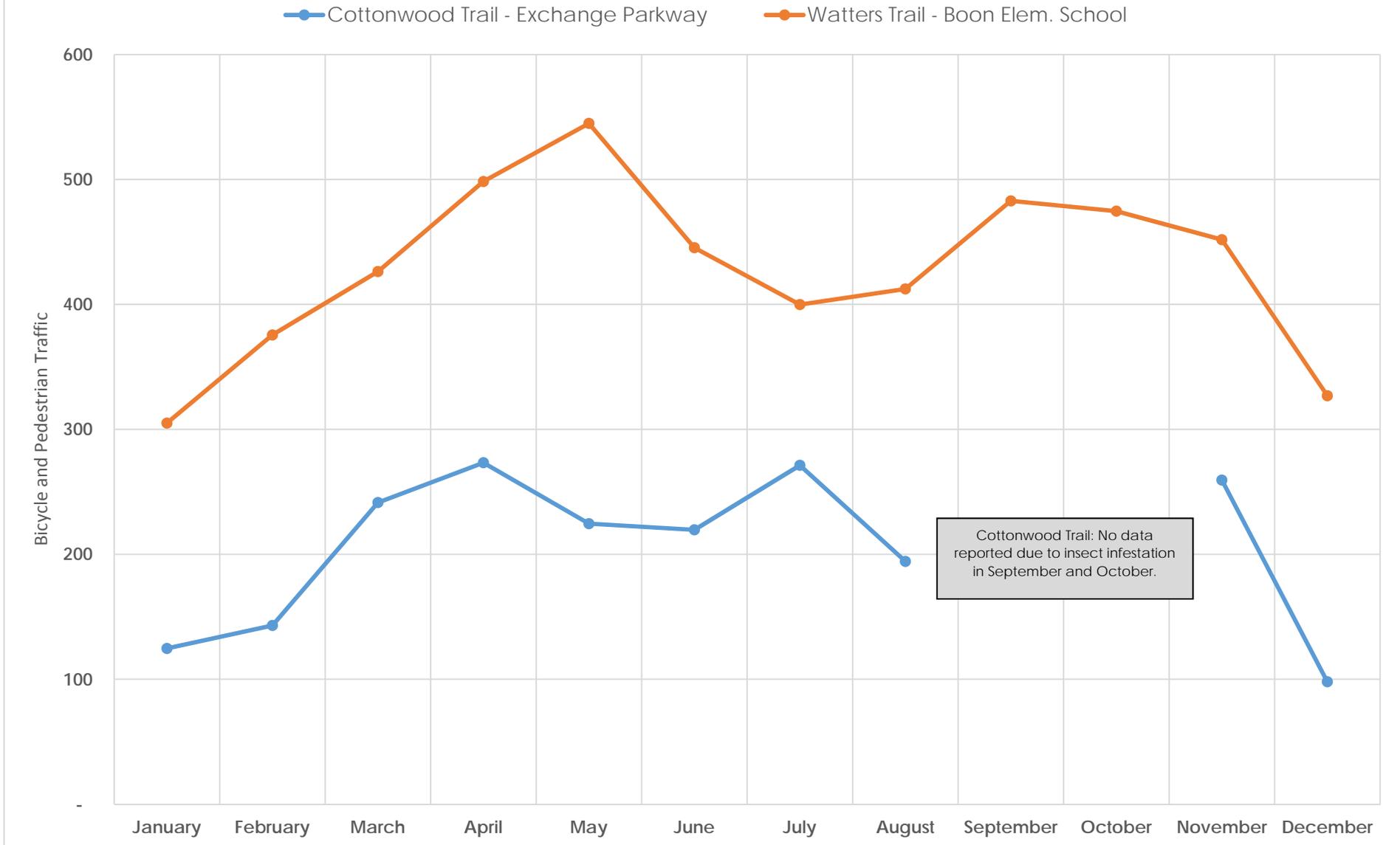


Exhibit 12:

Allen Count Stations

Average Daily Traffic by Month (2017)

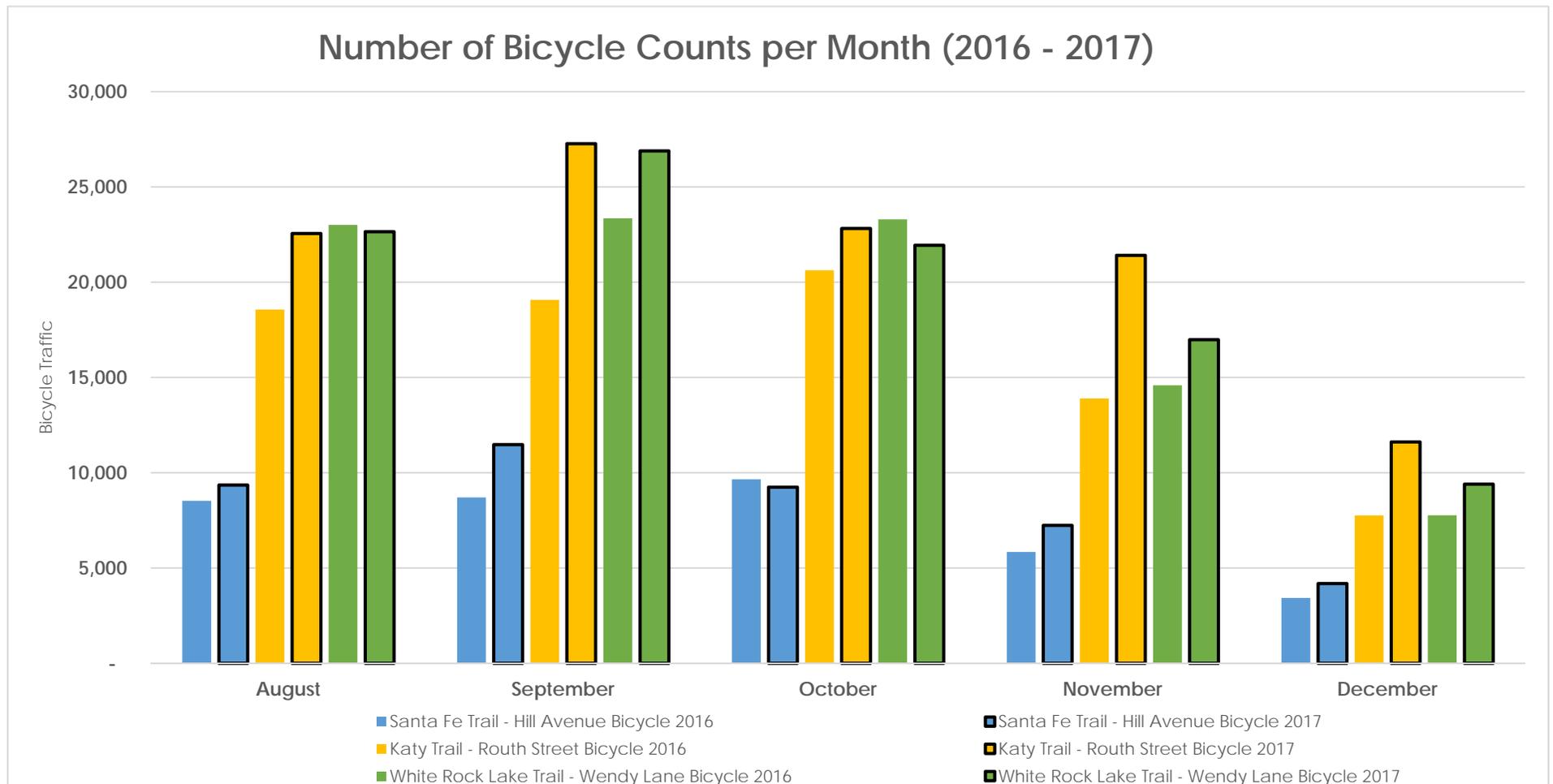


Bicycle Counts Before and After the Emergence of Bike Share in Dallas

Beginning in late 2017, several dockless bike share systems began operation in Dallas and quickly became a popular mode of travel. The availability of bike share facilitates short trips, such as those to and from DART transit stations.

Compared to the same timeframe in 2016, bicycle counts along the Katy Trail, Santa Fe Trail, and White Rock Lake Trail saw a general increase in counts, with the most significant increase on the Katy Trail (Exhibit 13). Three count locations represent a sample of the popular downtown trails and recreation areas frequented by users of bike share in Dallas.

Exhibit 13:

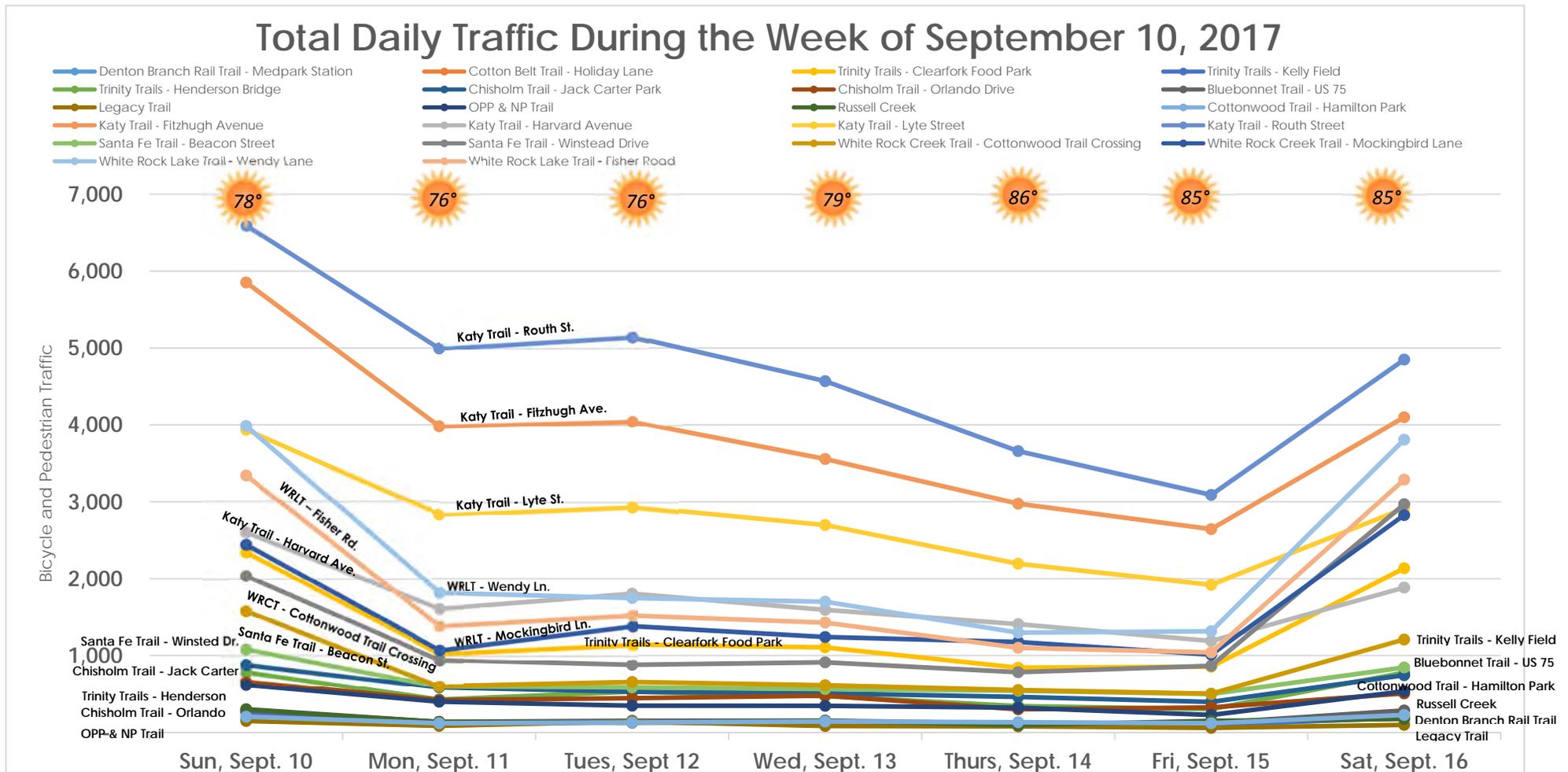


Sample Week Data

The week of September 10, 2017, as shown in Exhibit 14, is a representative snapshot of weekly travel patterns. This specific week is highlighted since it coincides with the National Bicycle and Pedestrian Documentation Project, a nationwide effort to

establish a consistent model of data collection for people using active transportation. On this particular week, the highest traffic counts recorded by count stations in the region were on Sunday, September 10 with over 42,000 bicycle and pedestrian counts. Saturday, September 16 had over 36,000 counts.

Exhibit 14:



Summary

In 2016, the 31 count stations monitored by NCTCOG recorded over 7.4 million bicycle and pedestrian traffic counts in total. **In 2017, all 31 of the count stations recorded over 8 million bicycle and pedestrian traffic counts in total.** The traffic count total would have been significantly higher if not for battery failures and gaps in data collection among several counters. As more count equipment is installed and as all equipment locations record data throughout the year, this number is expected to greatly increase.

Limitations of Data

The amount of bicycle and pedestrian traffic registered by counting equipment presented in this report does not represent unique individuals. Similar to motor vehicle counts, the equipment counts the number of times bicyclists and pedestrians pass by each count station. The technology used by the count equipment, primarily the passive-infrared sensor, is unable to distinguish the number of pedestrians who may walk side-by-side and in large groups. Therefore, the data in this report should be interpreted as slightly conservative. NCTCOG validated the

accuracy of six NCTCOG-owned count stations in 2015 and developed a unique correction factor for each mode at each location. NCTCOG staff observed the count stations for four hours and compared the manually recorded data to that collected by the equipment. Results from the validation process found pedestrians to have a higher error rate (ranging from 3 to 30 percent) than bicyclists (ranging from 4 to 8 percent). Correction factors were applied to the following six count stations:

1. Chisholm Trail – Jack Carter Park
2. Chisholm Trail – Orlando Drive
3. Denton Branch Rail Trail – Medpark Station
4. Denton Branch Rail Trail – Morse Street
5. Trinity Trails – Henderson Street Bridge
6. Trinity Trails – Clearfork Food Park

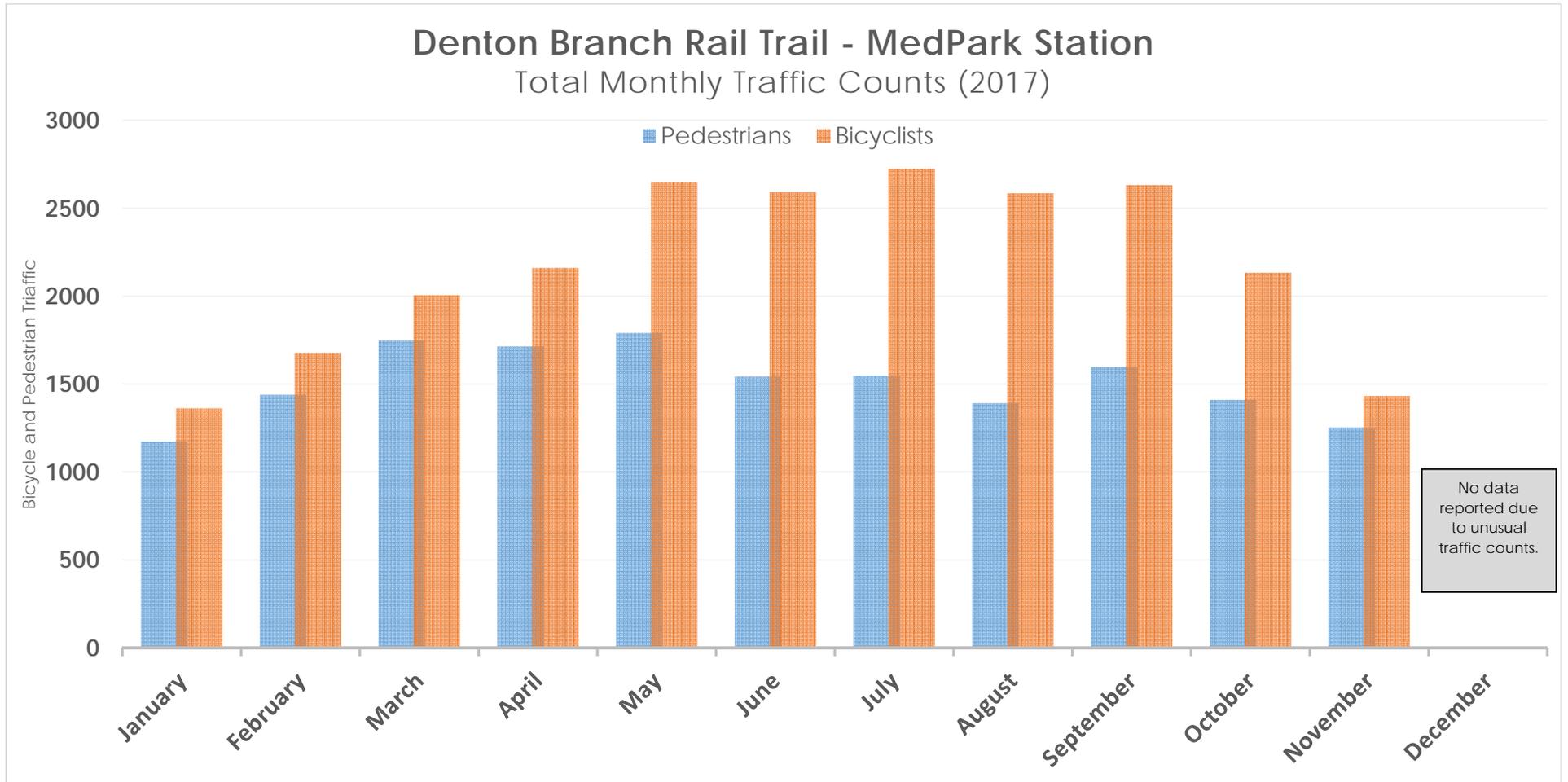
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Appendix:

Individual Count Station Summaries

Denton

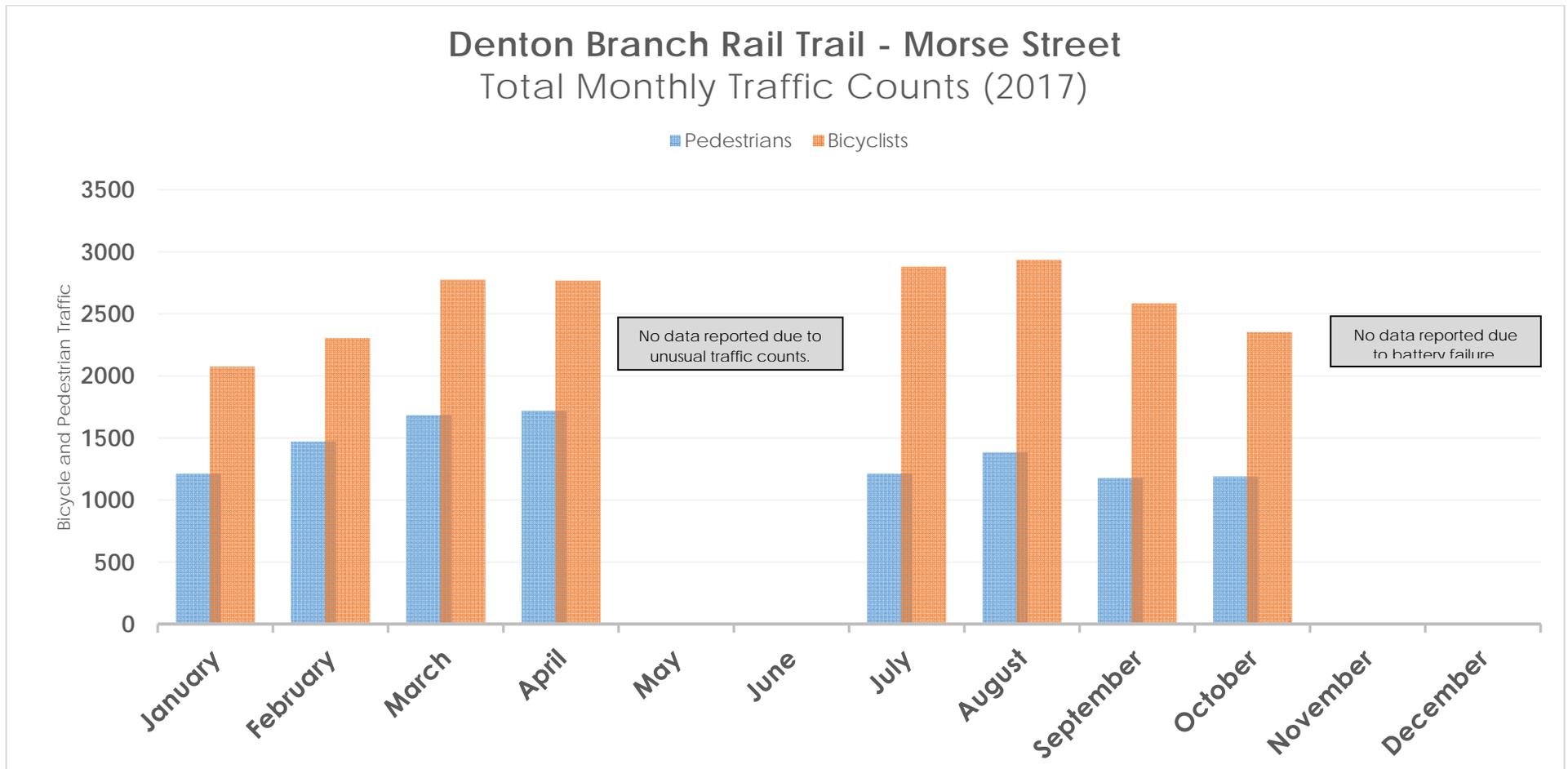
Exhibit 17:



2017 Annual Traffic (partial year)	
Pedestrians	16,610
Bicyclists	23,954
Total Traffic	40,564

Denton

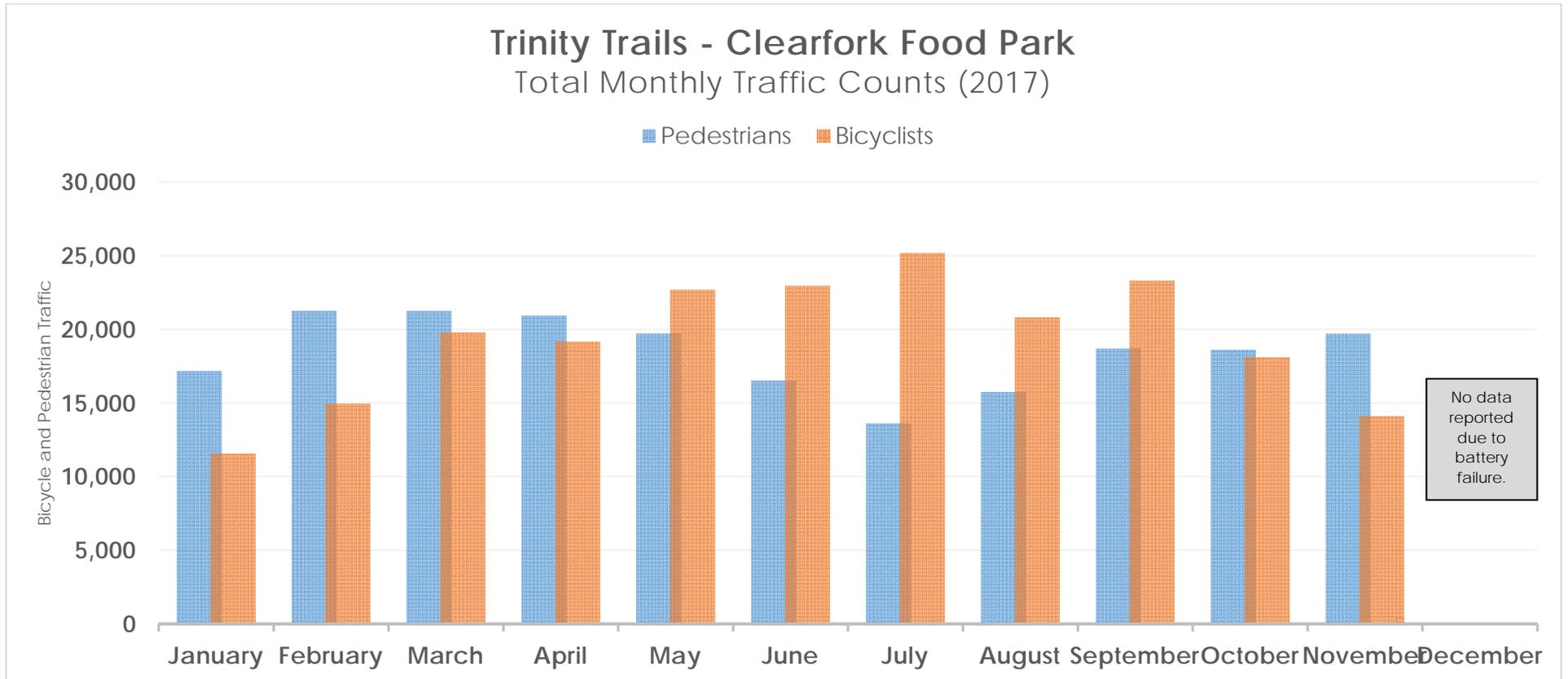
Exhibit 18:



2017 Annual Traffic (partial year)	
Pedestrians	11,053
Bicyclists	20,674
Total Traffic	31,727

Fort Worth

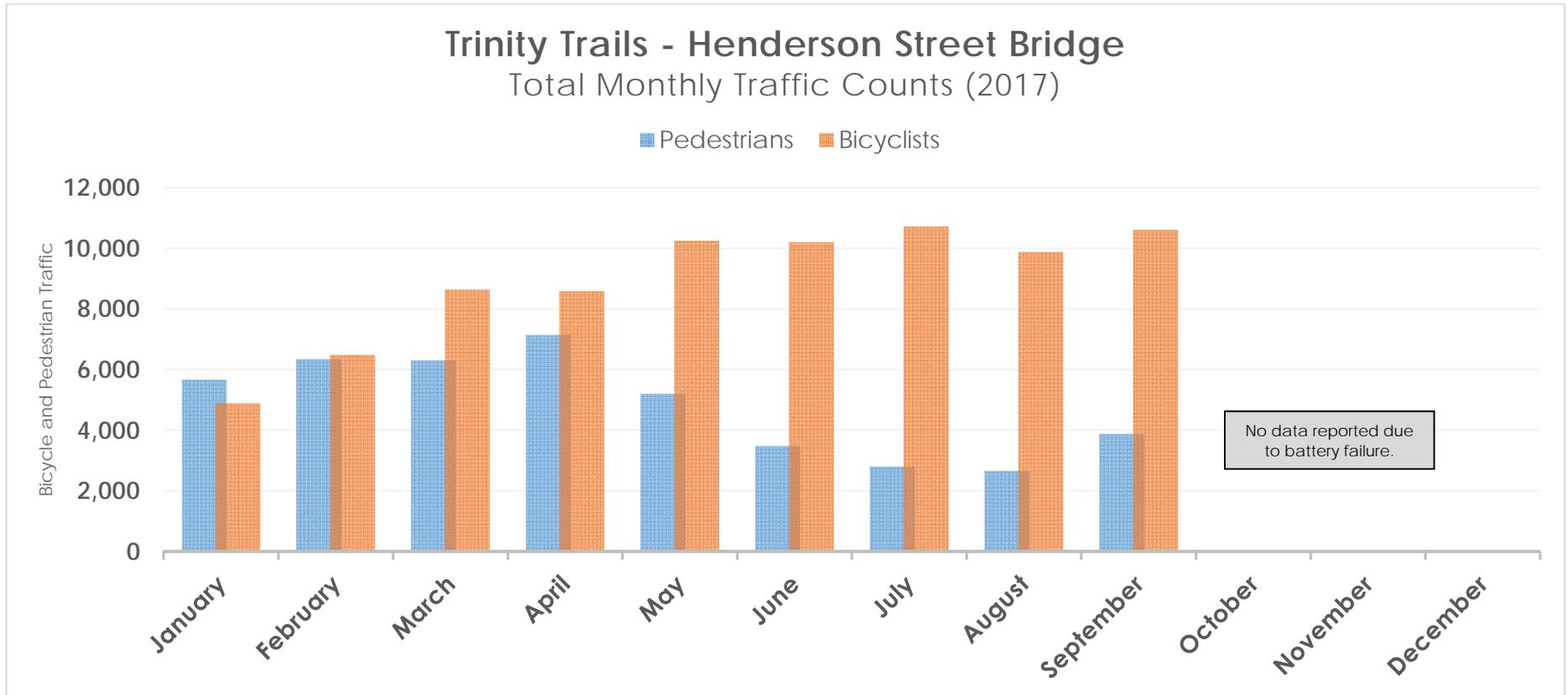
Exhibit 19:



2017 Annual Traffic (partial year)	
Pedestrians	203,305
Bicyclists	212,688
Total Traffic	415,993

Fort Worth

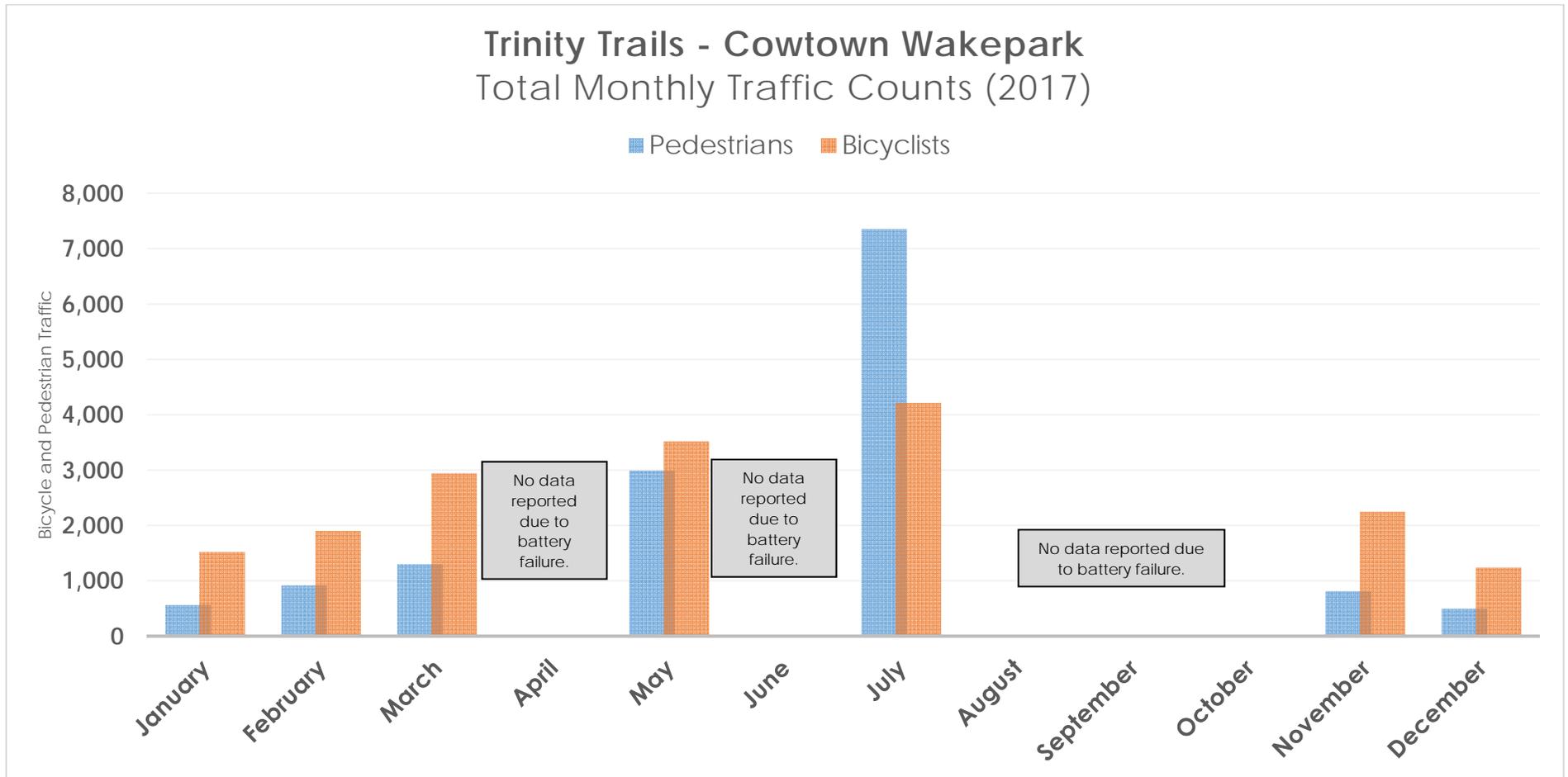
Exhibit 20:



2017 Annual Traffic (partial year)	
Pedestrians	43,508
Bicyclists	80,283
Total Traffic	123,791

Fort Worth

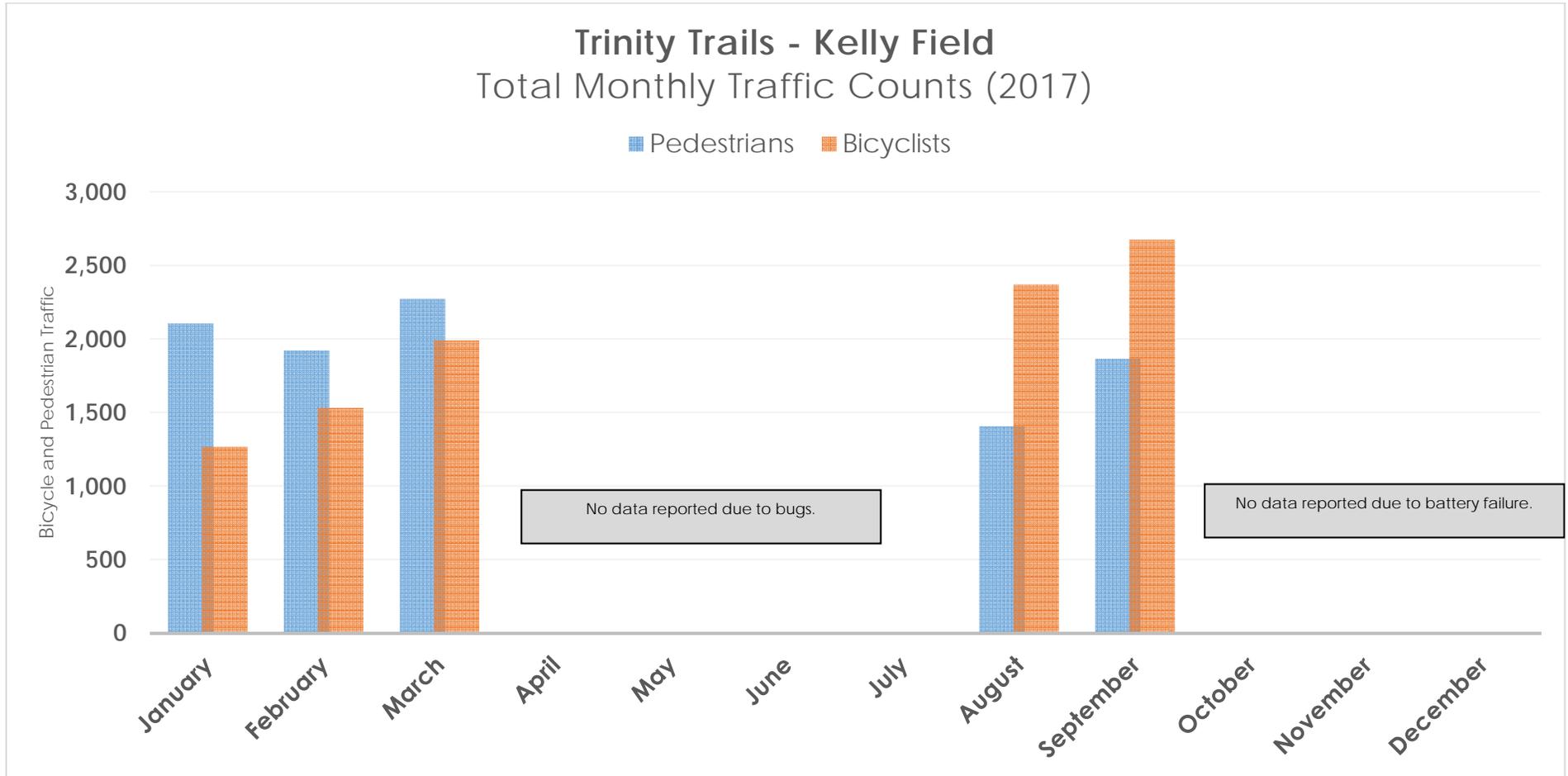
Exhibit 21:



2017 Annual Traffic (partial year)	
Pedestrians	14,439
Bicyclists	17,589
Total Traffic	32,028

Fort Worth

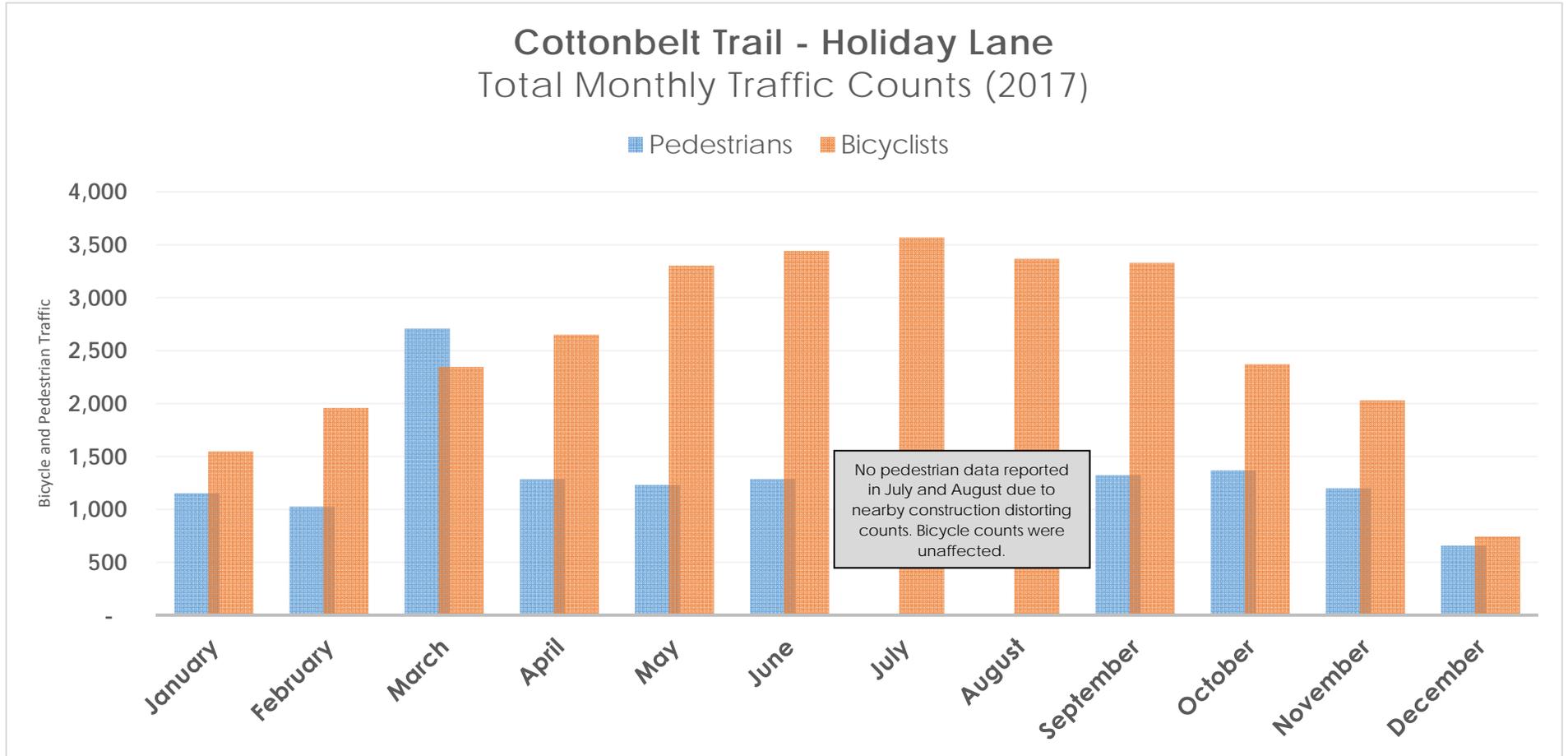
Exhibit 22:



2017 Annual Traffic (partial year)	
Pedestrians	9,570
Bicyclists	9,831
Total Traffic	19,401

North Richland Hills

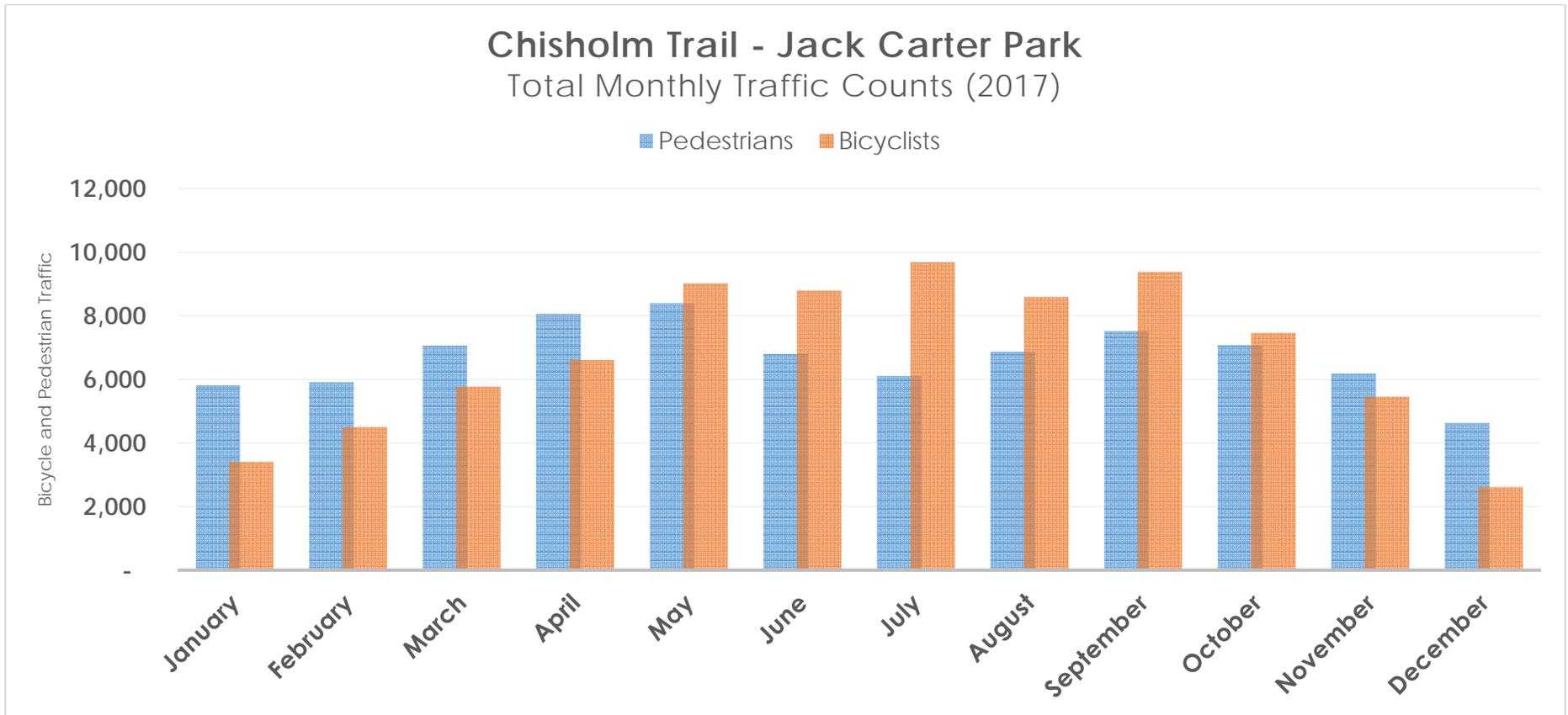
Exhibit 23:



2017 Annual Traffic (partial year)	
Pedestrians	13,239
Bicyclists	30,662
Total Traffic	43,901

Plano

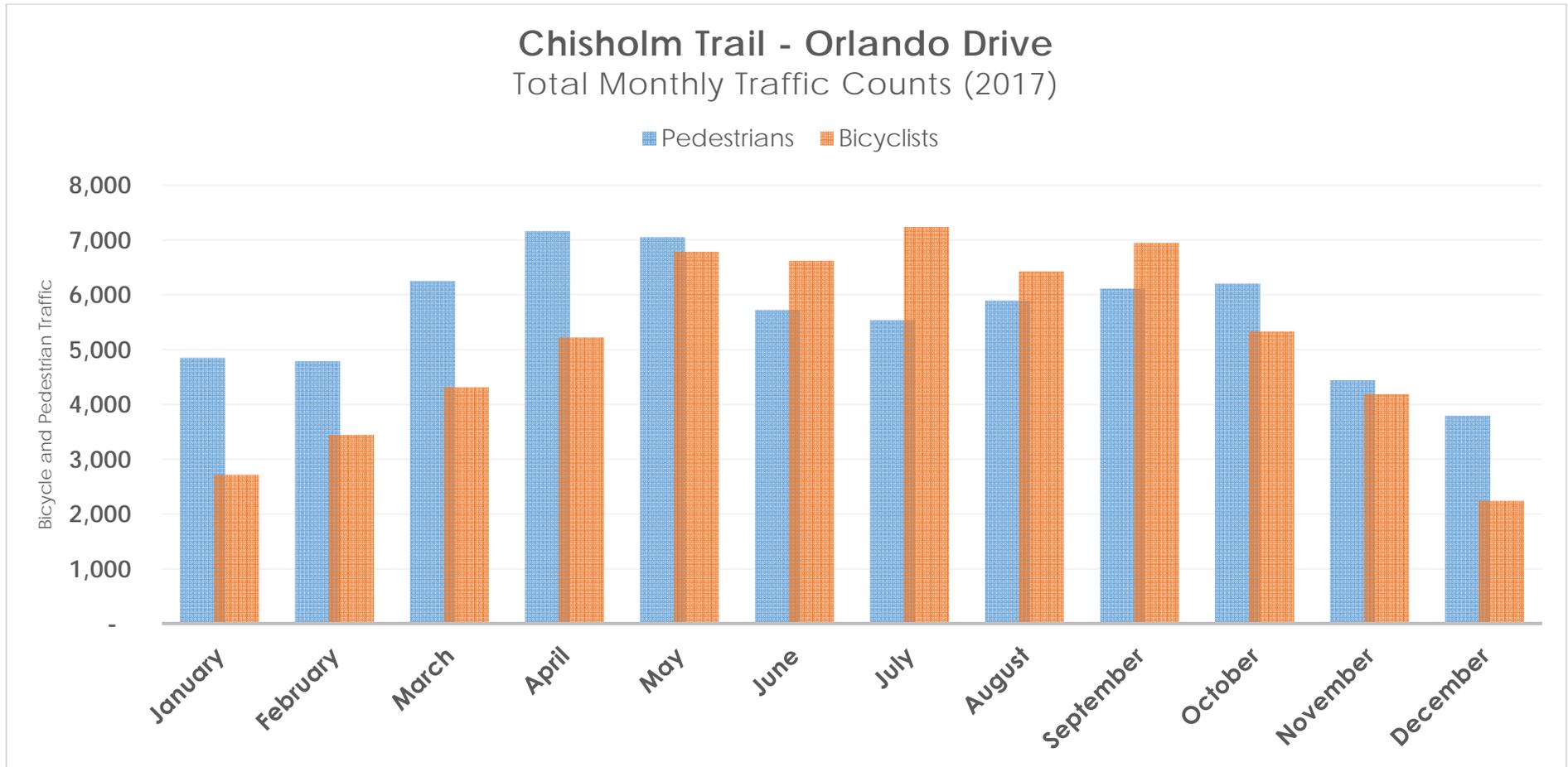
Exhibit 24:



2017 Annual Traffic	
Pedestrians	80,468
Bicyclists	81,344
Total Traffic	161,812

Plano

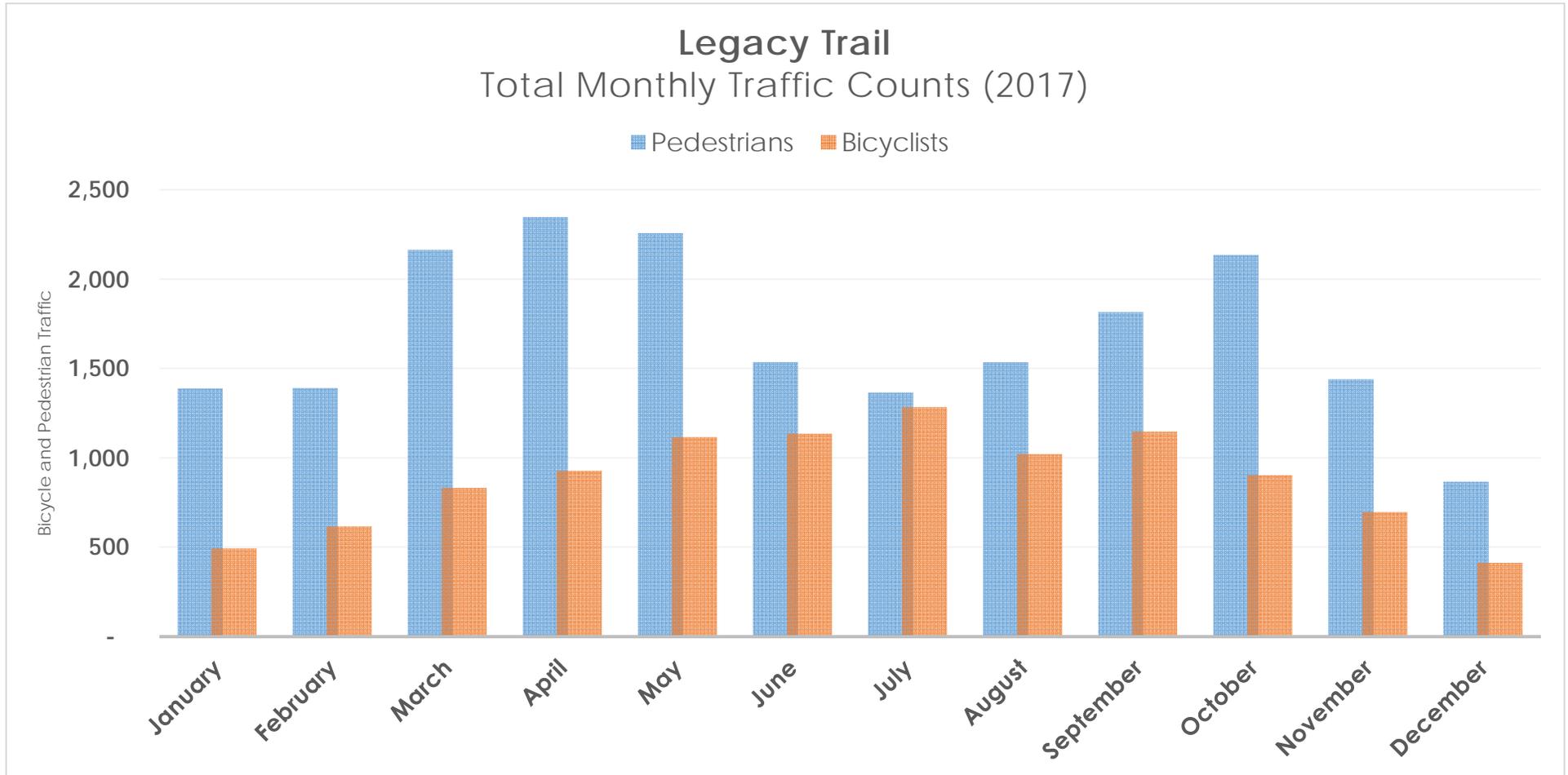
Exhibit 25:



2017 Annual Traffic	
Pedestrians	67,814
Bicyclists	61,481
Total Traffic	129,295

Plano

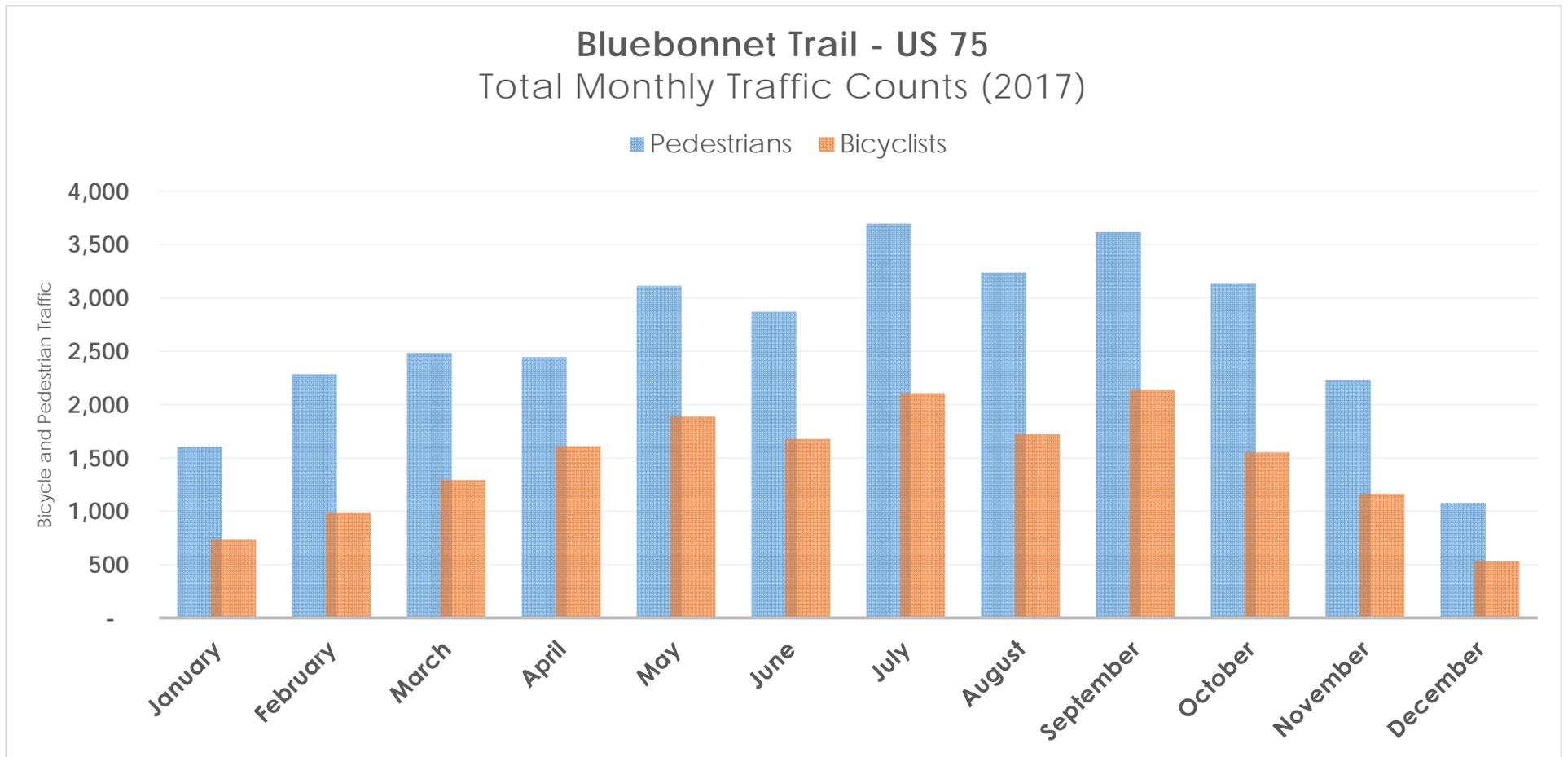
Exhibit 26:



2017 Annual Traffic	
Pedestrians	20,237
Bicyclists	10,575
Total Traffic	30,812

Plano

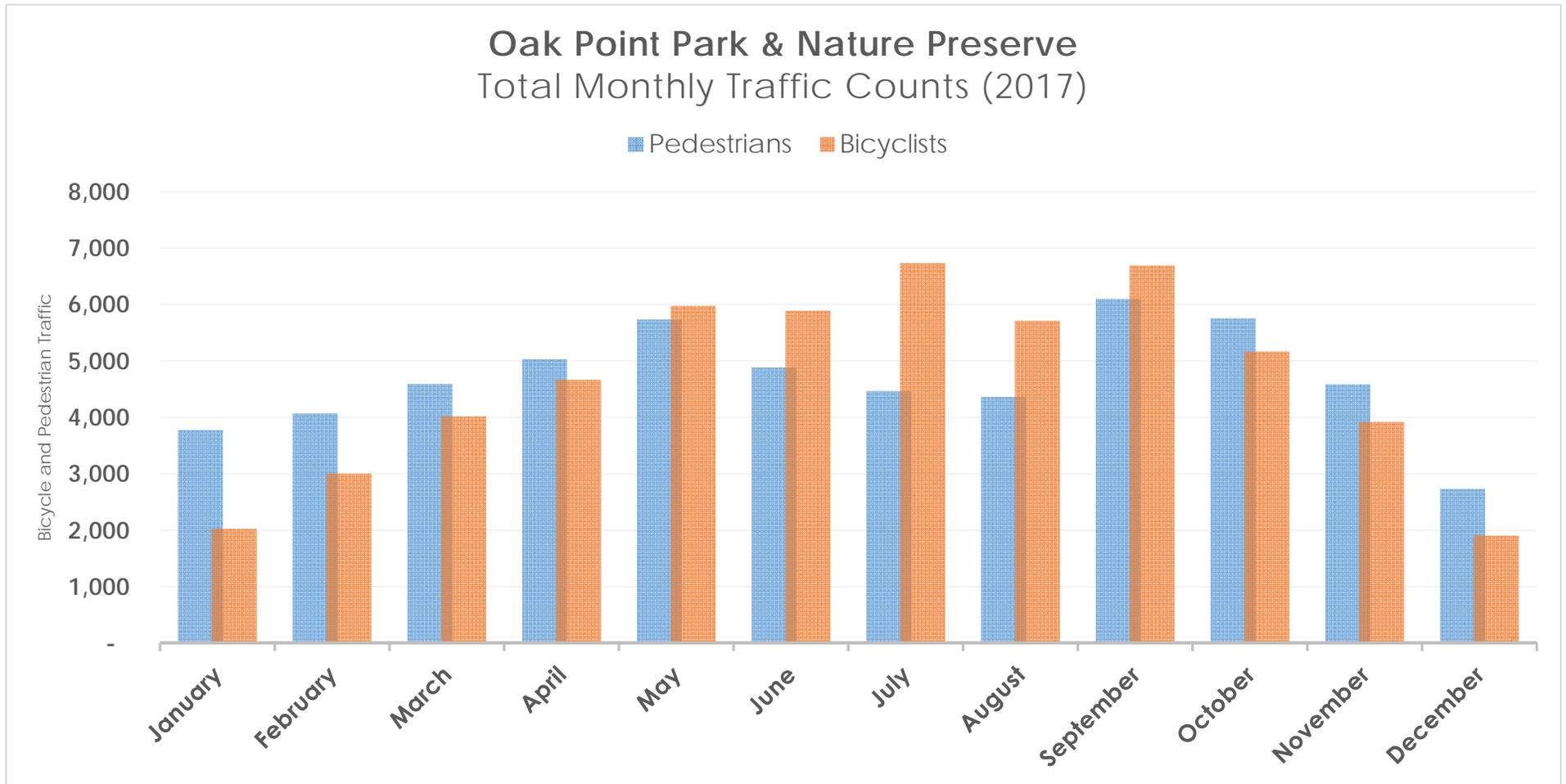
Exhibit 27:



2017 Annual Traffic	
Pedestrians	31,810
Bicyclists	17,410
Total Traffic	49,220

Plano

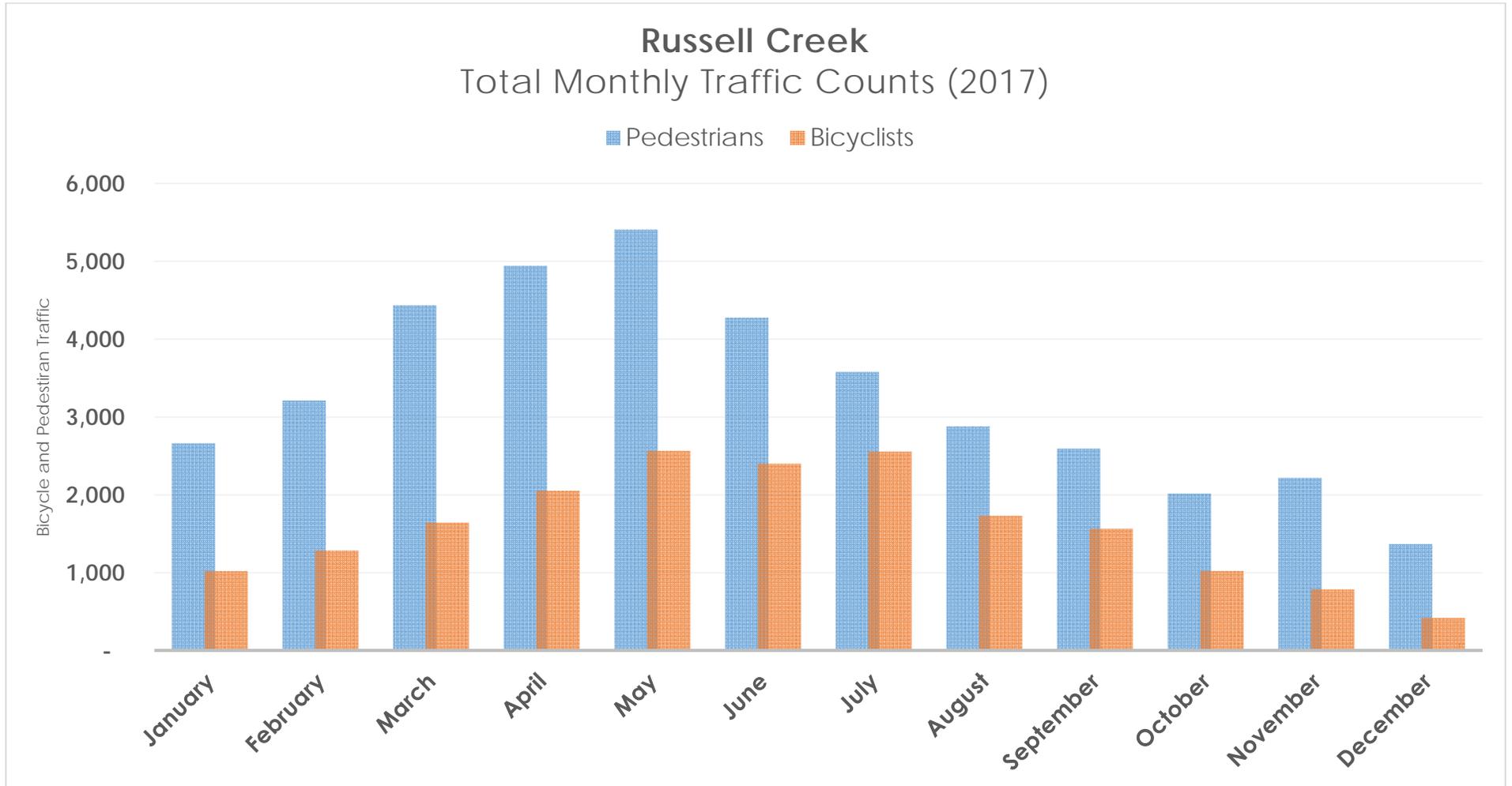
Exhibit 28:



2017 Annual Traffic	
Pedestrians	56,090
Bicyclists	55,720
Total Traffic	111,810

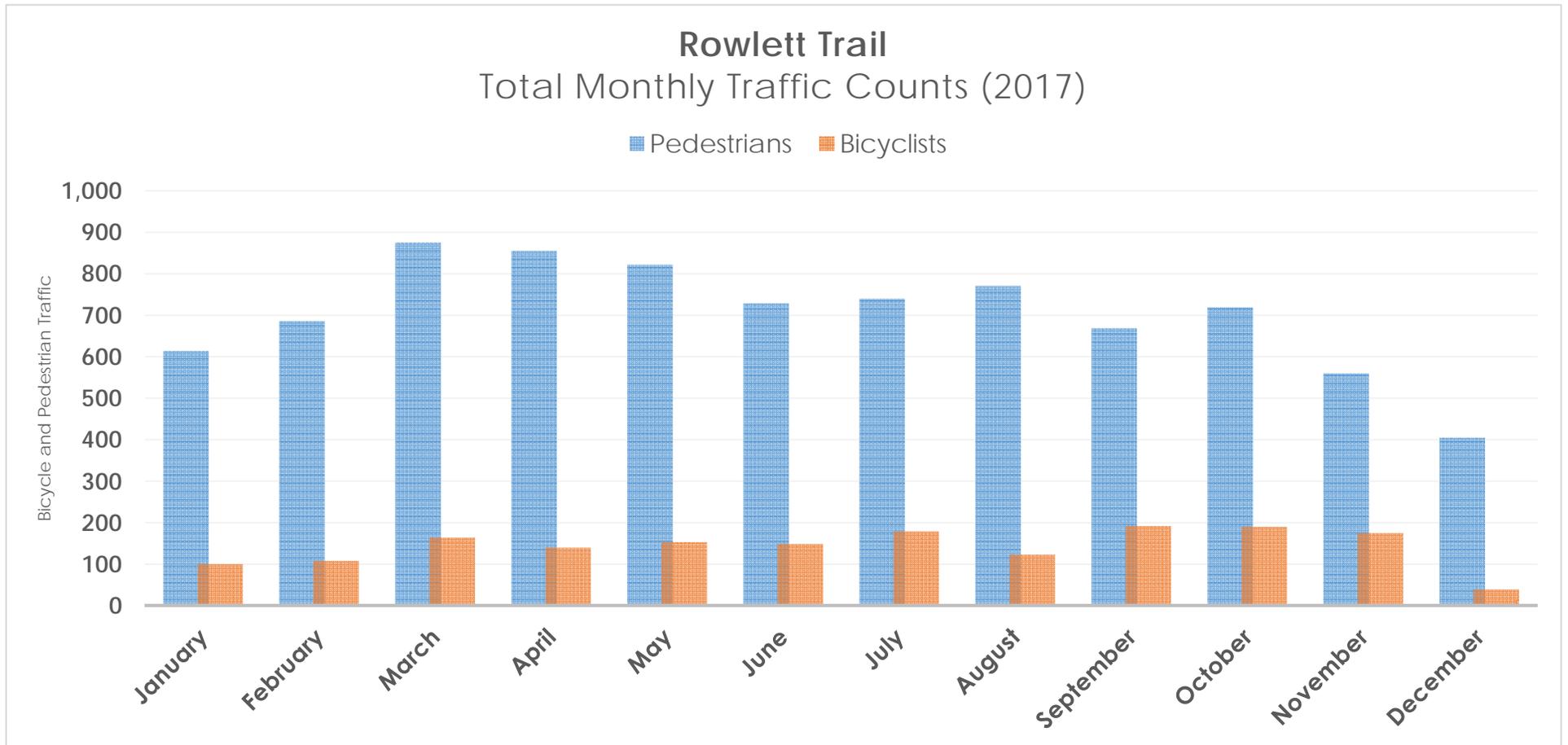
Plano

Exhibit 29:



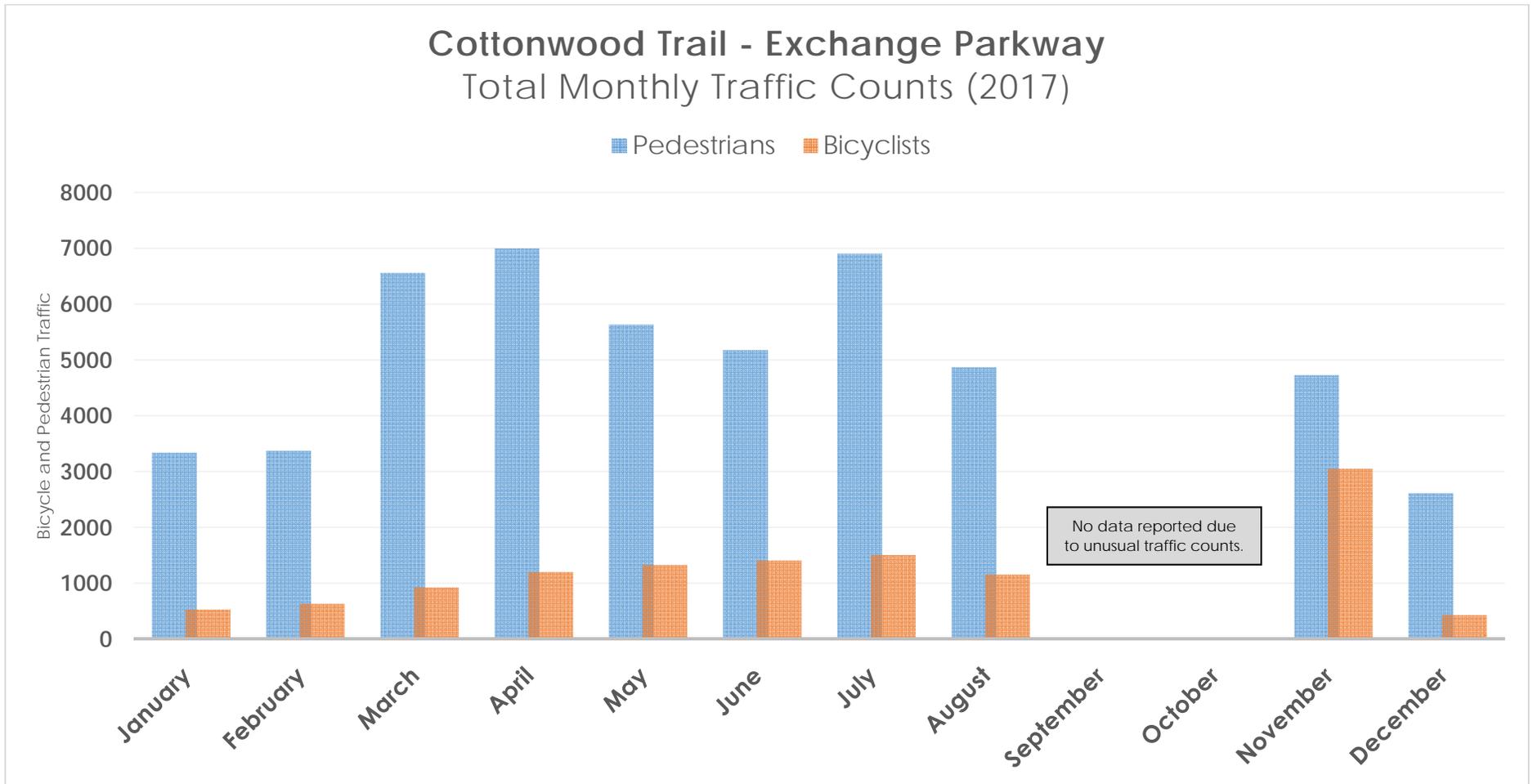
2017 Annual Traffic	
Pedestrians	39,612
Bicyclists	19,067
Total Traffic	58,679

Exhibit 30:



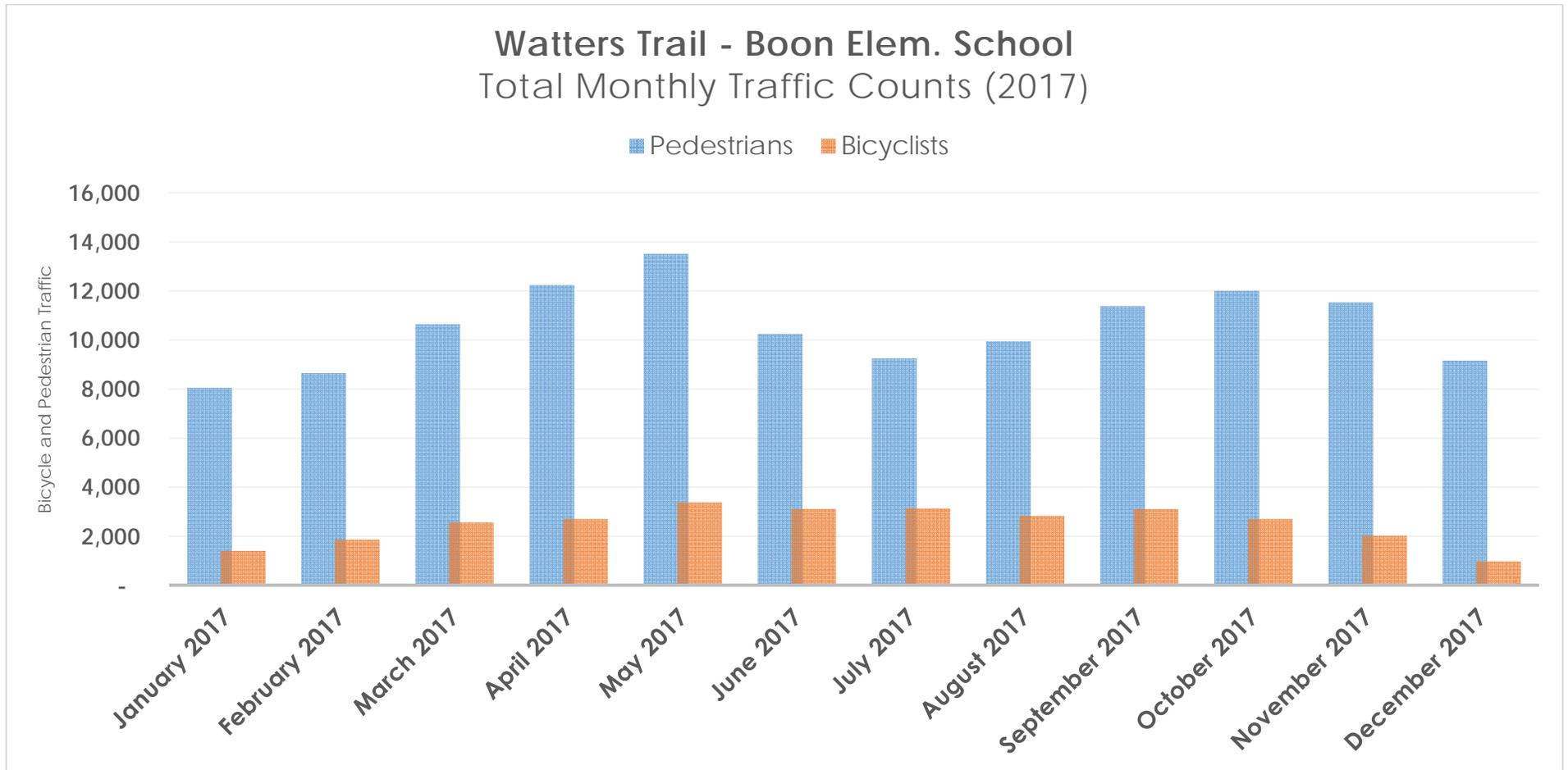
2017 Annual Traffic (partial year)	
Pedestrians	8,445
Bicyclists	1,712
Total Traffic	10,157

Exhibit 31:



2017 Annual Traffic (partial year)	
Pedestrians	50,190
Bicyclists	12,162
Total Traffic	62,352

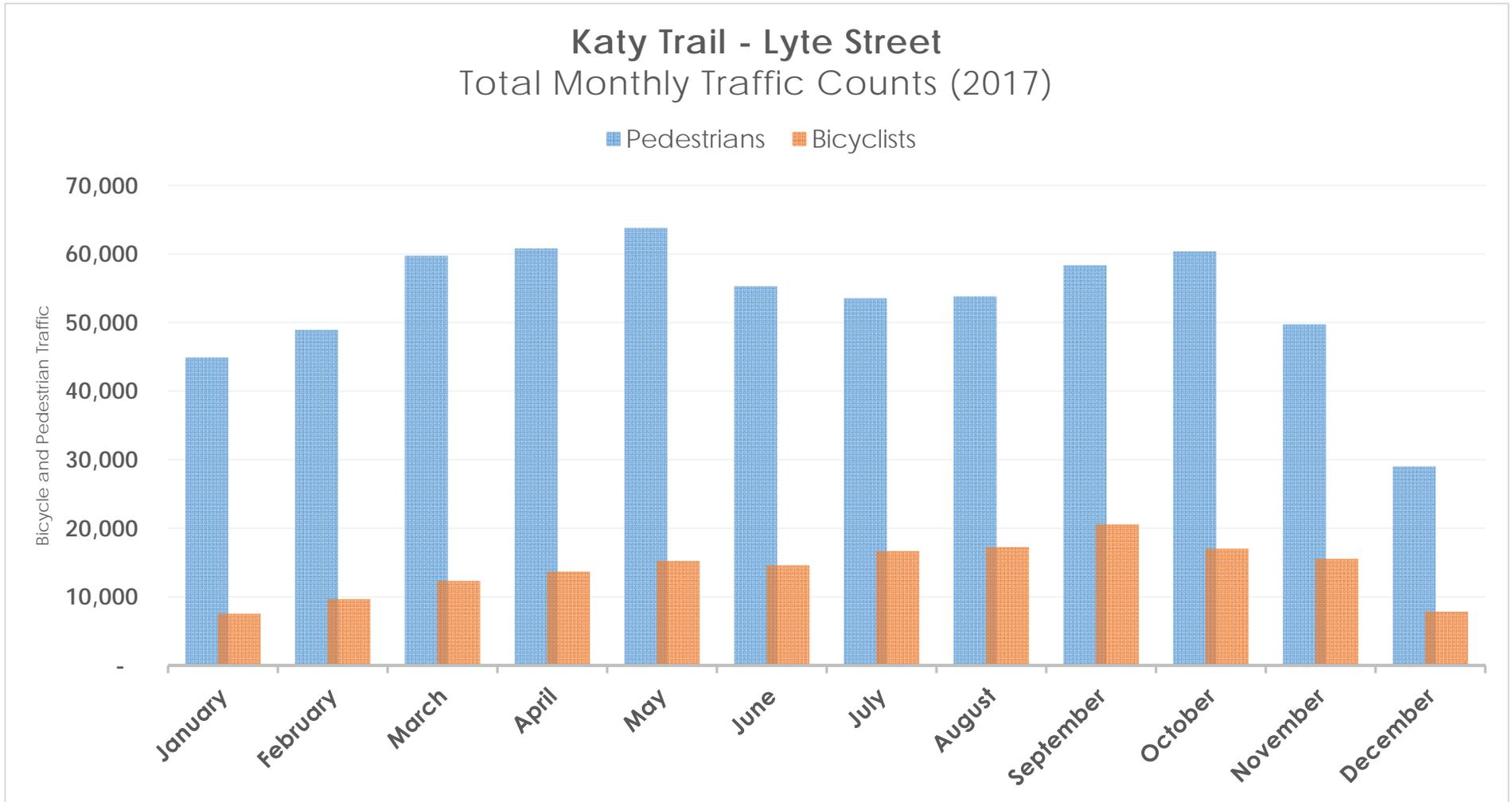
Exhibit 32:



2017 Annual Traffic	
Pedestrians	126,625
Bicyclists	29,833
Total Traffic	156,458

Dallas

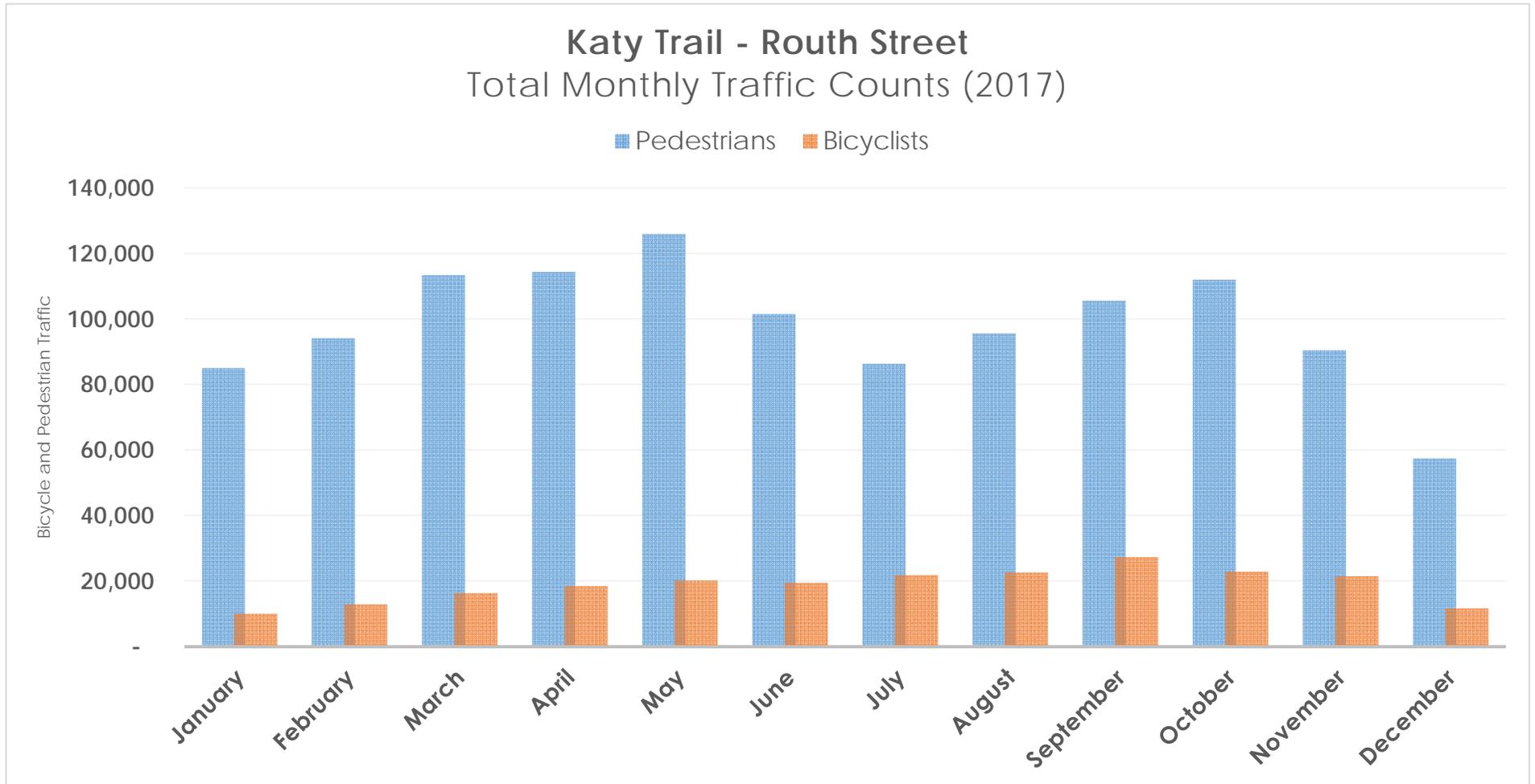
Exhibit 33:



2017 Annual Traffic	
Pedestrians	638,298
Bicyclists	168,101
Total Traffic	806,399

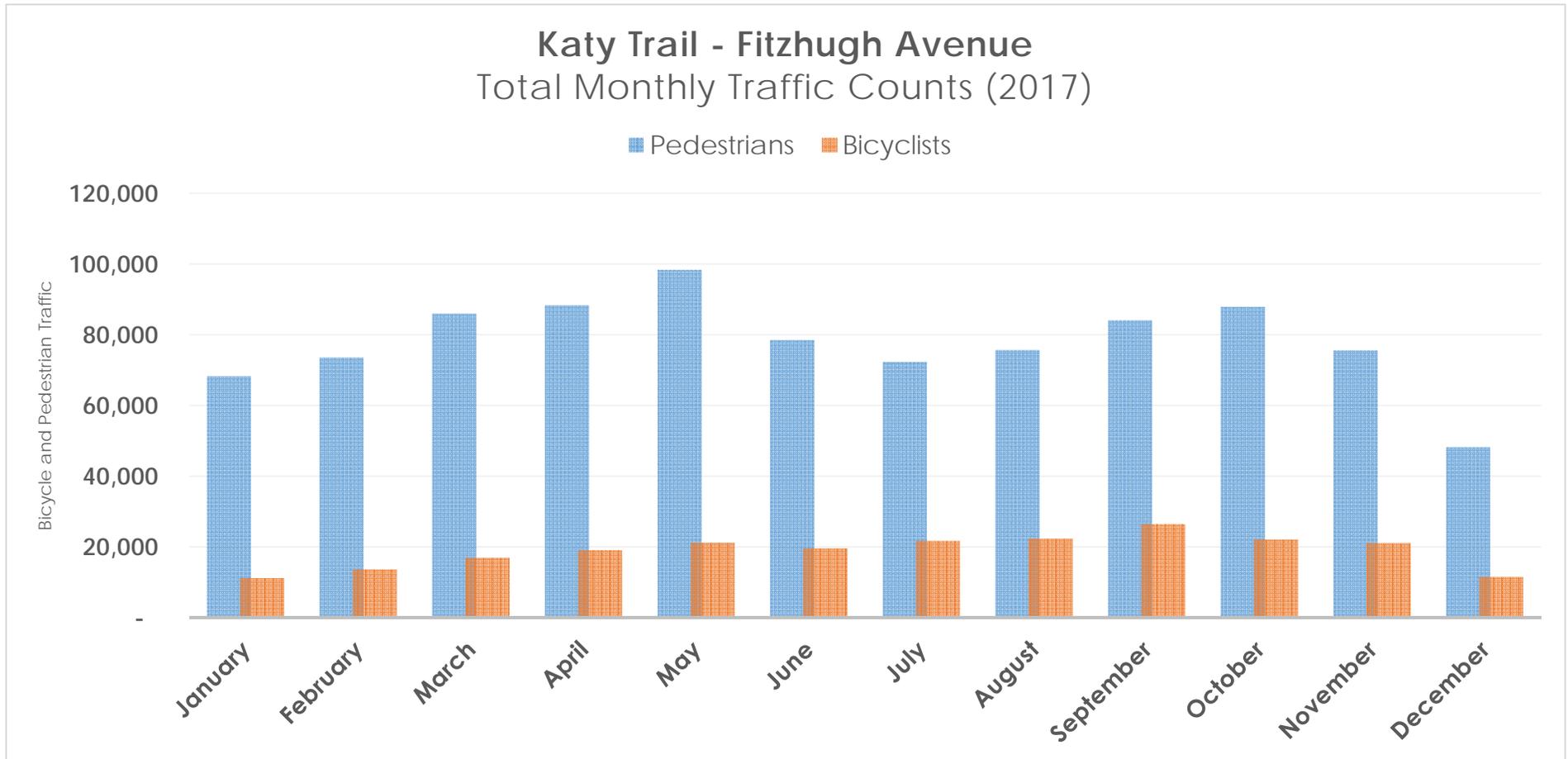
Dallas

Exhibit 34:



2017 Annual Traffic	
Pedestrians	1,181,372
Bicyclists	224,499
Total Traffic	1,405,871

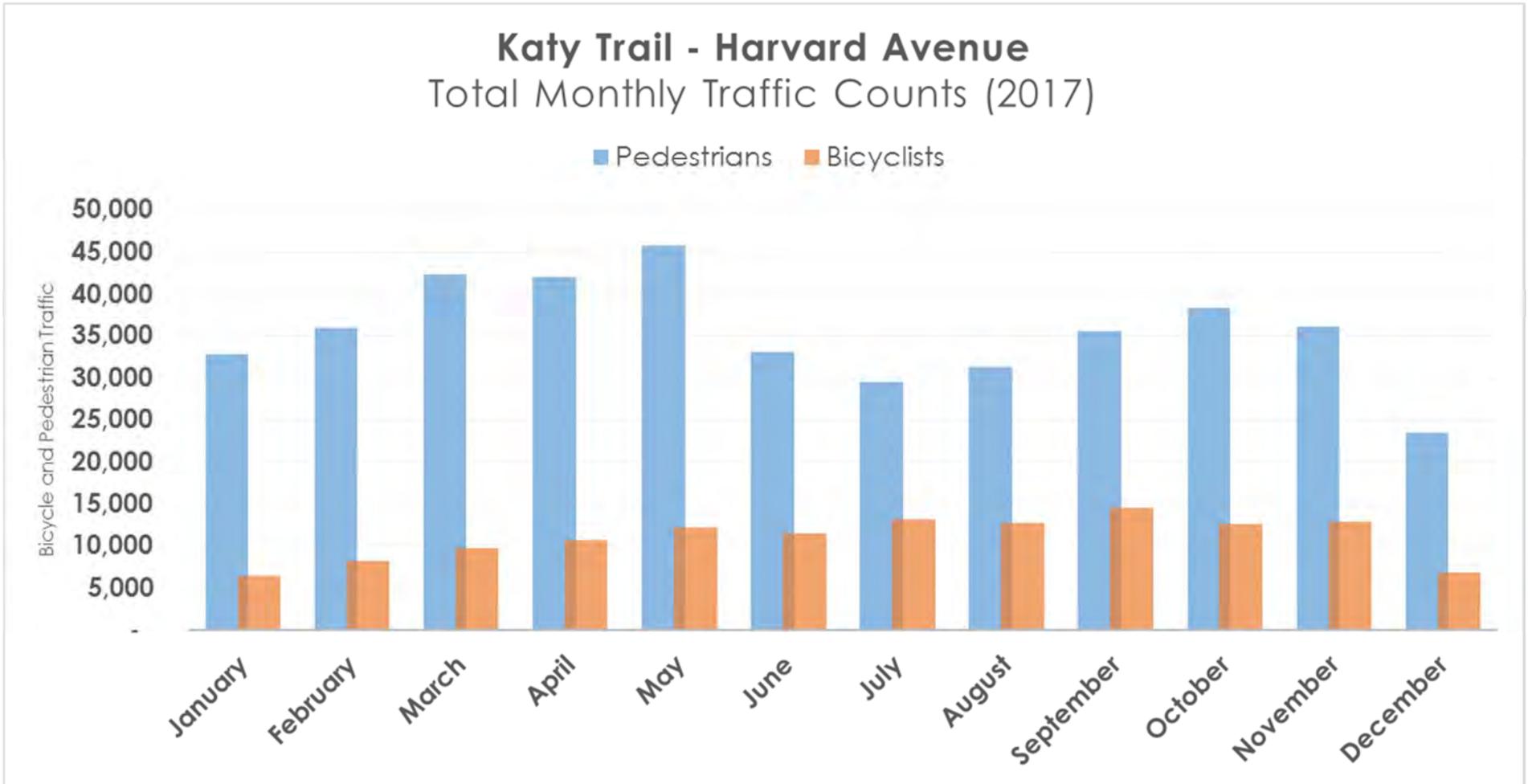
Exhibit 35:



2017 Annual Traffic	
Pedestrians	936,574
Bicyclists	226,659
Total Traffic	1,163,233

Dallas

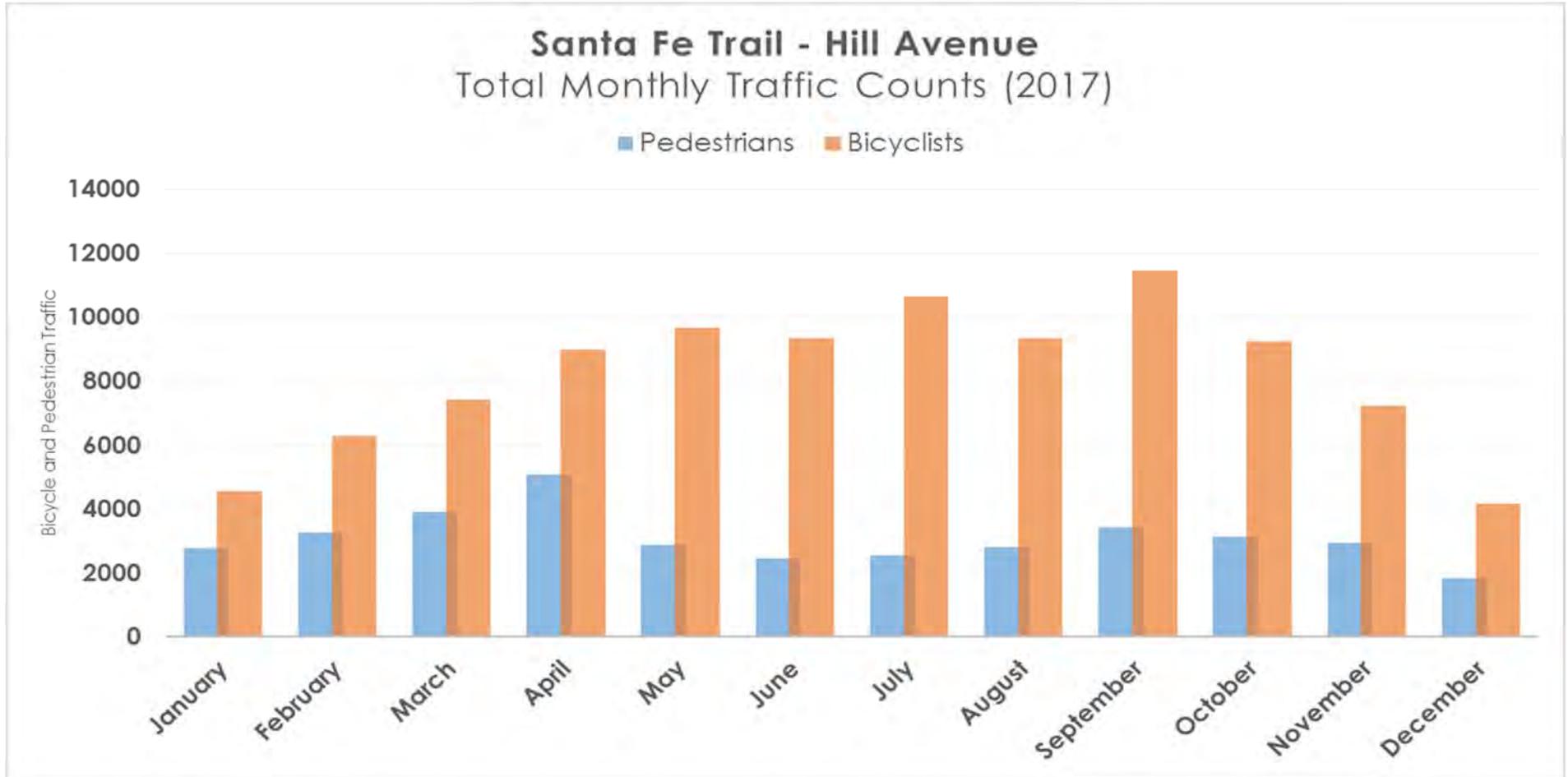
Exhibit 36:



2017 Annual Traffic	
Pedestrians	425,406
Bicyclists	130,700
Total Traffic	556,106

Dallas

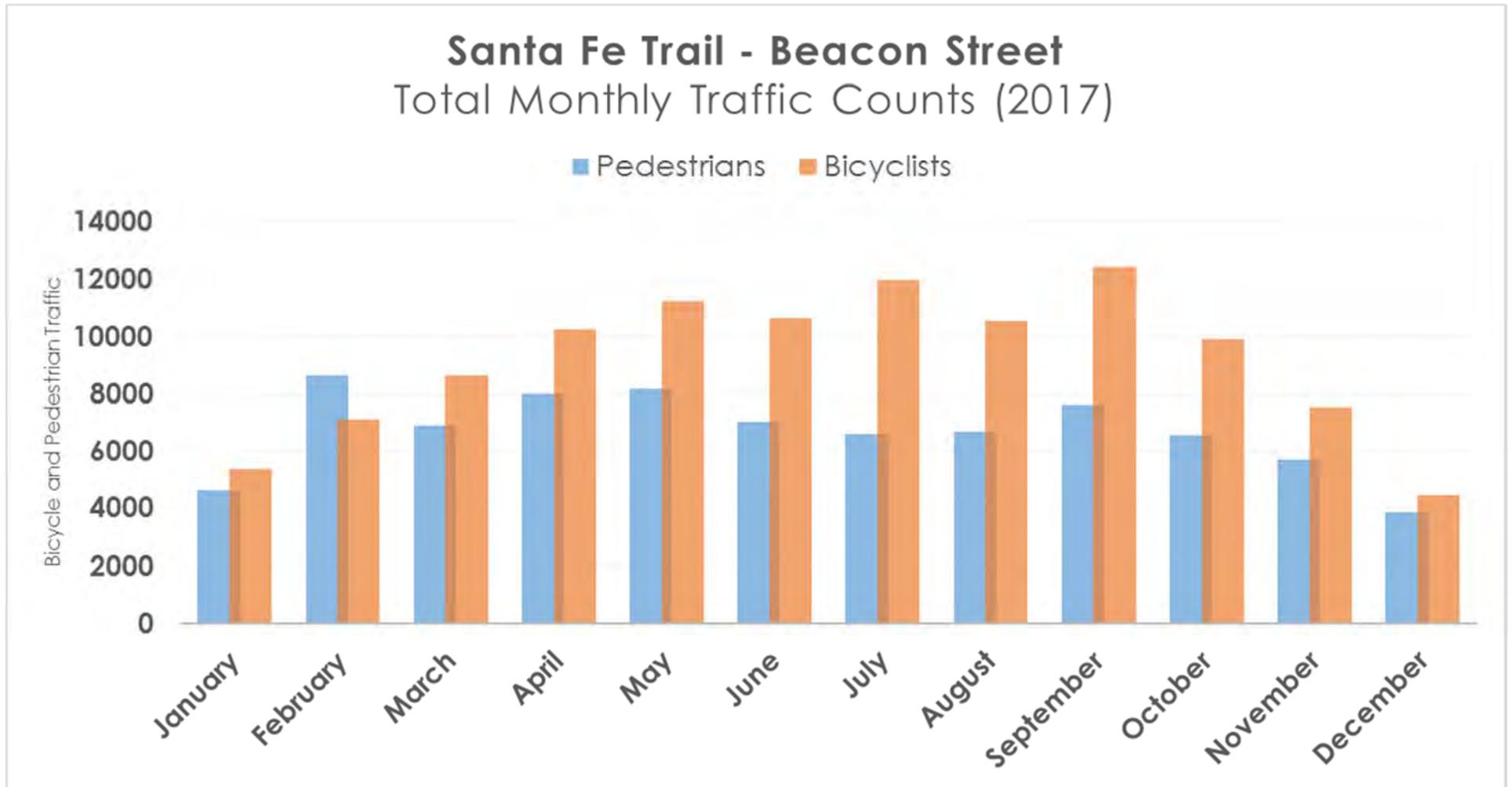
Exhibit 37:



2017 Annual Traffic	
Pedestrians	37,133
Bicyclists	98,434
Total Traffic	135,567

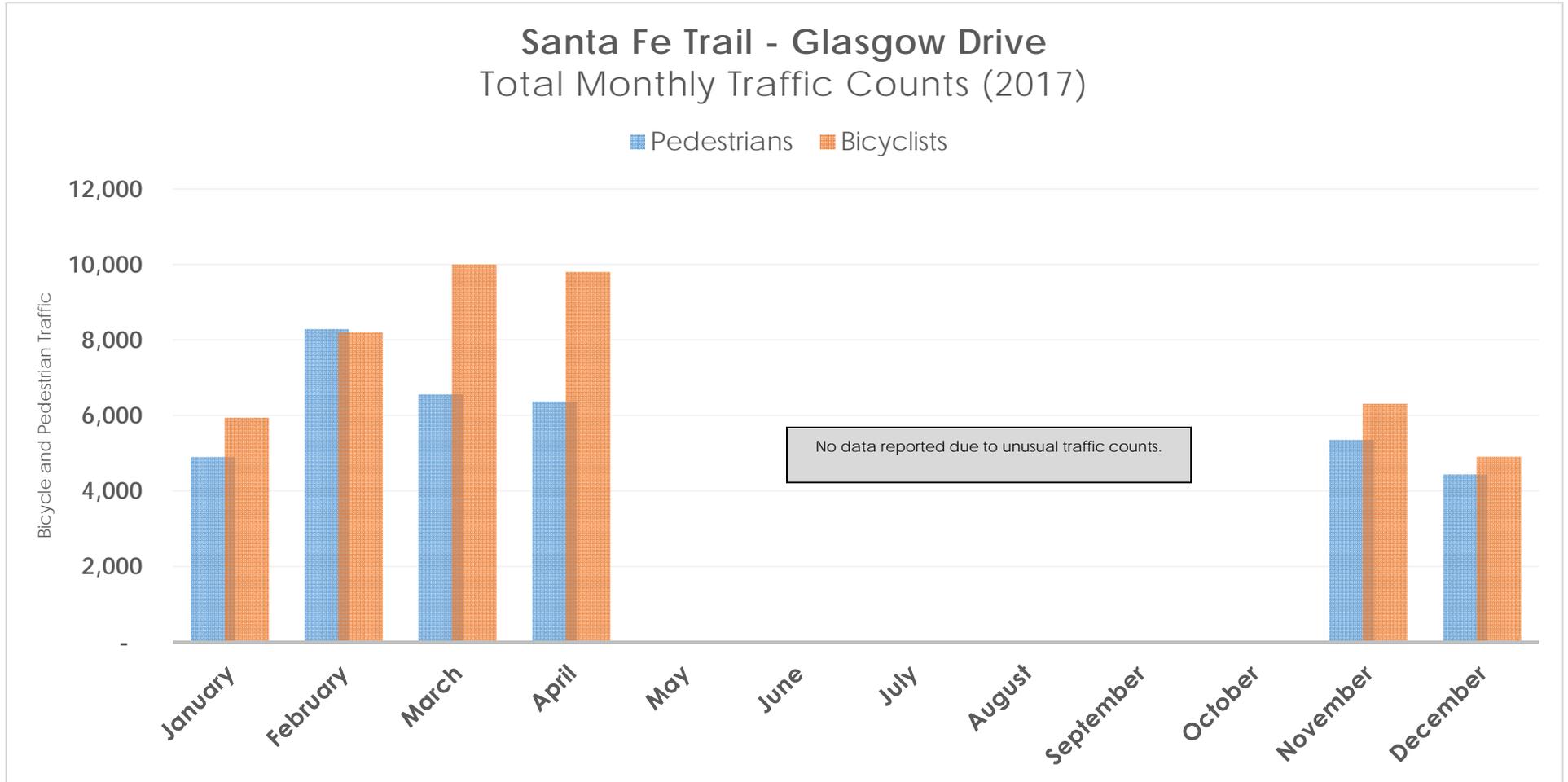
Dallas

Exhibit 38:



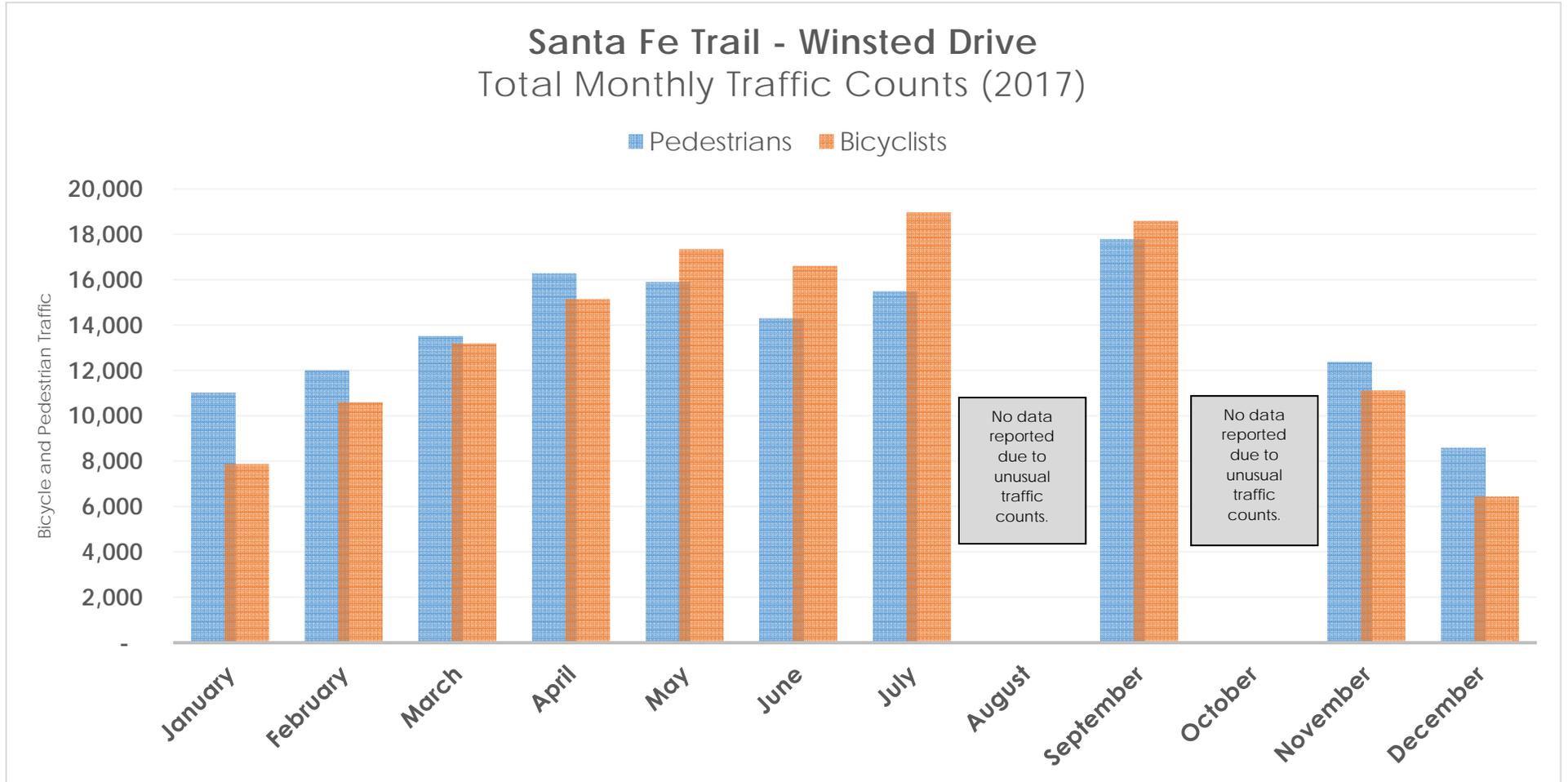
2017 Annual Traffic	
Pedestrians	80,409
Bicyclists	110,132
Total Traffic	190,541

Exhibit 39:



2017 Annual Traffic (partial year)	
Pedestrians	35,921
Bicyclists	45,155
Total Traffic	81,076

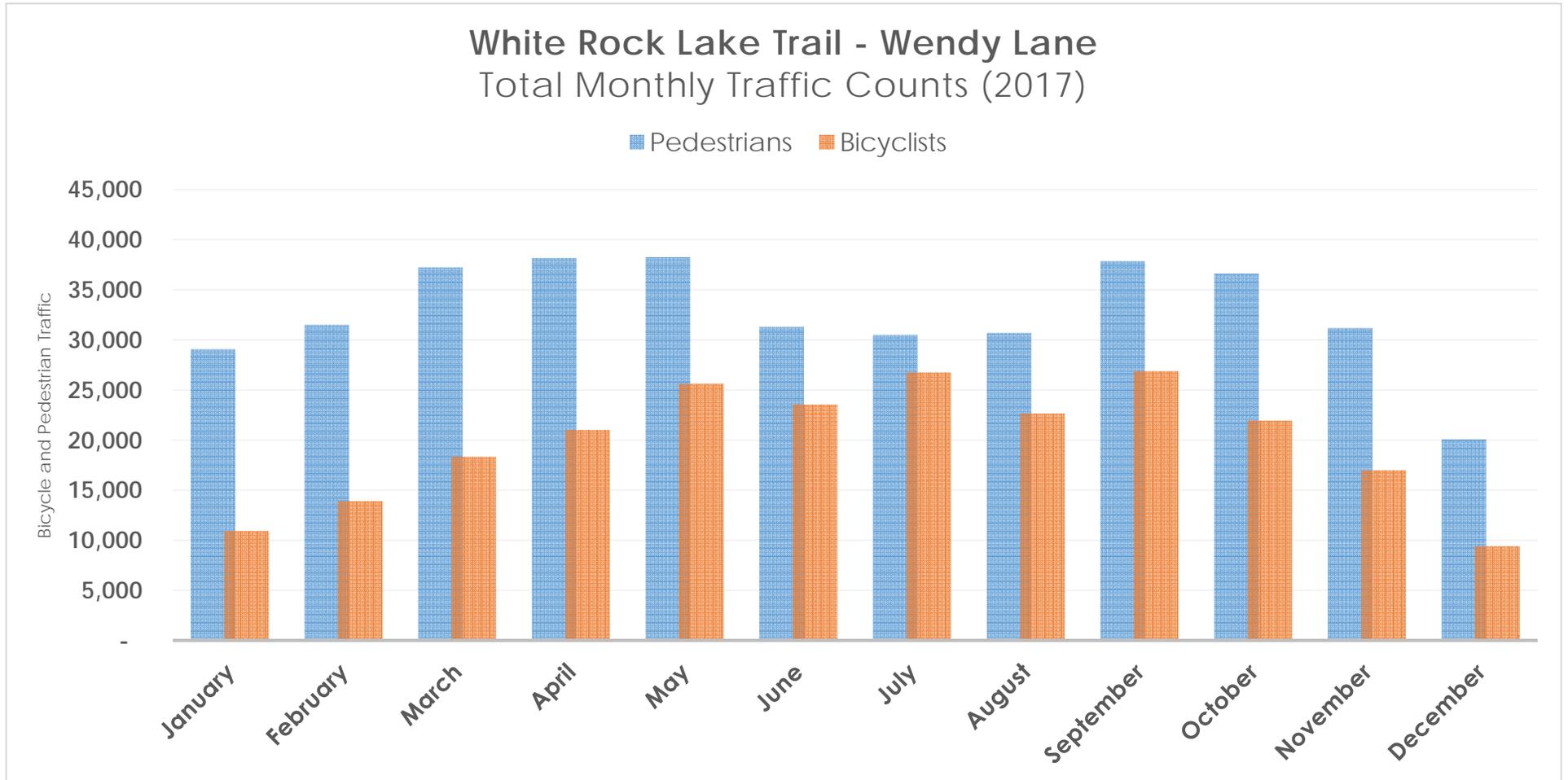
Exhibit 40:



2017 Annual Traffic (partial year)	
Pedestrians	137,258
Bicyclists	135,902
Total Traffic	273,160

Dallas

Exhibit 41:

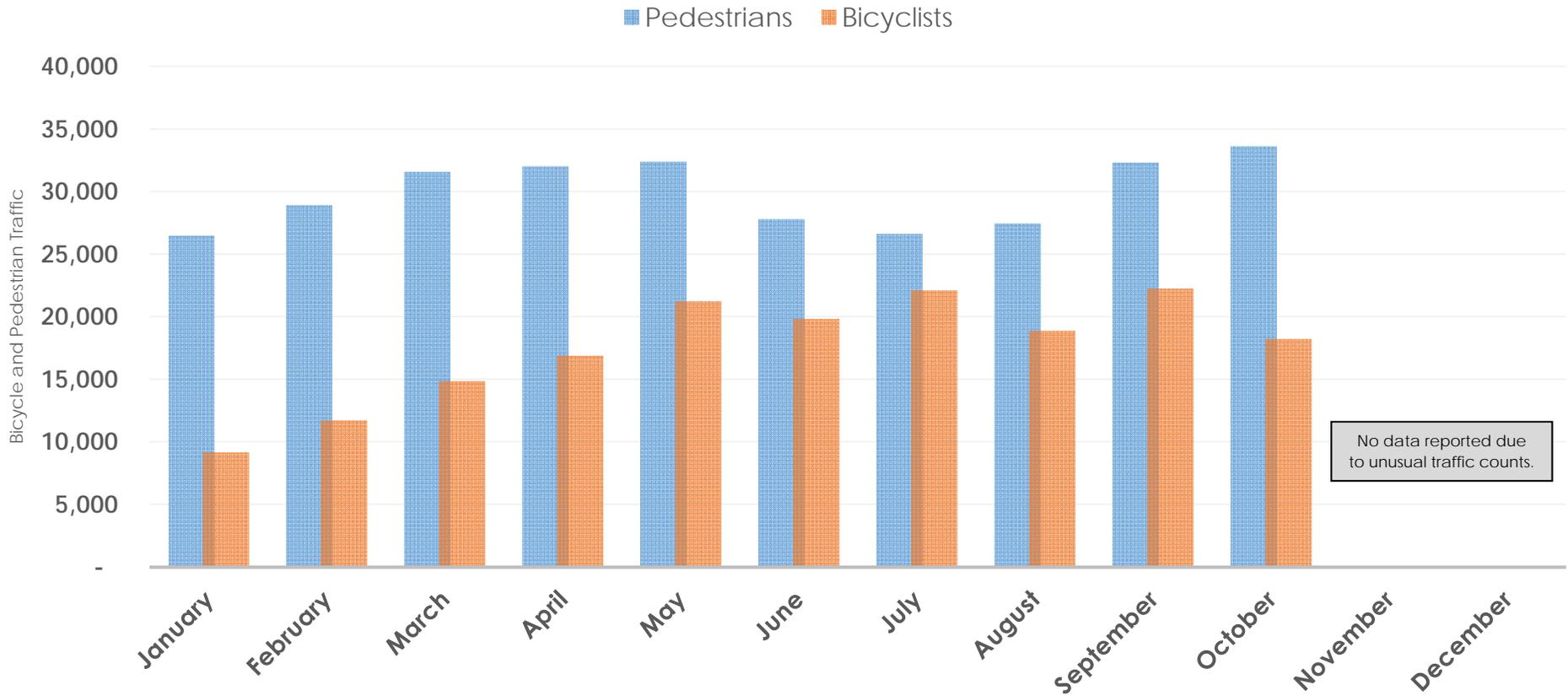


2017 Annual Traffic	
Pedestrians	392,417
Bicyclists	237,935
Total Traffic	630,352

Dallas

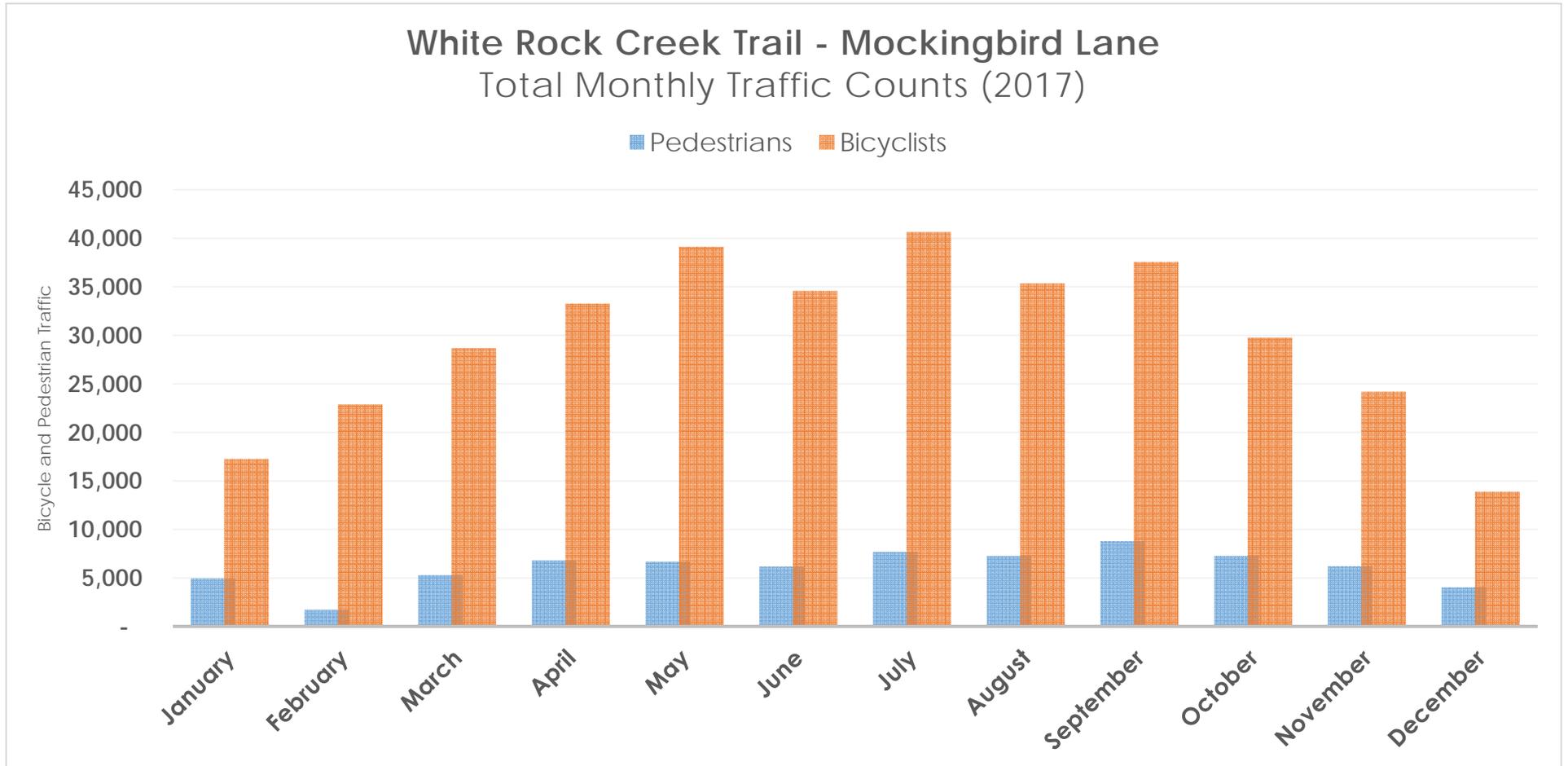
Exhibit 42:

White Rock Lake Trail - Fisher Road Total Monthly Traffic Counts (2017)



2017 Annual Traffic (partial year)	
Pedestrians	299,199
Bicyclists	175,077
Total Traffic	474,276

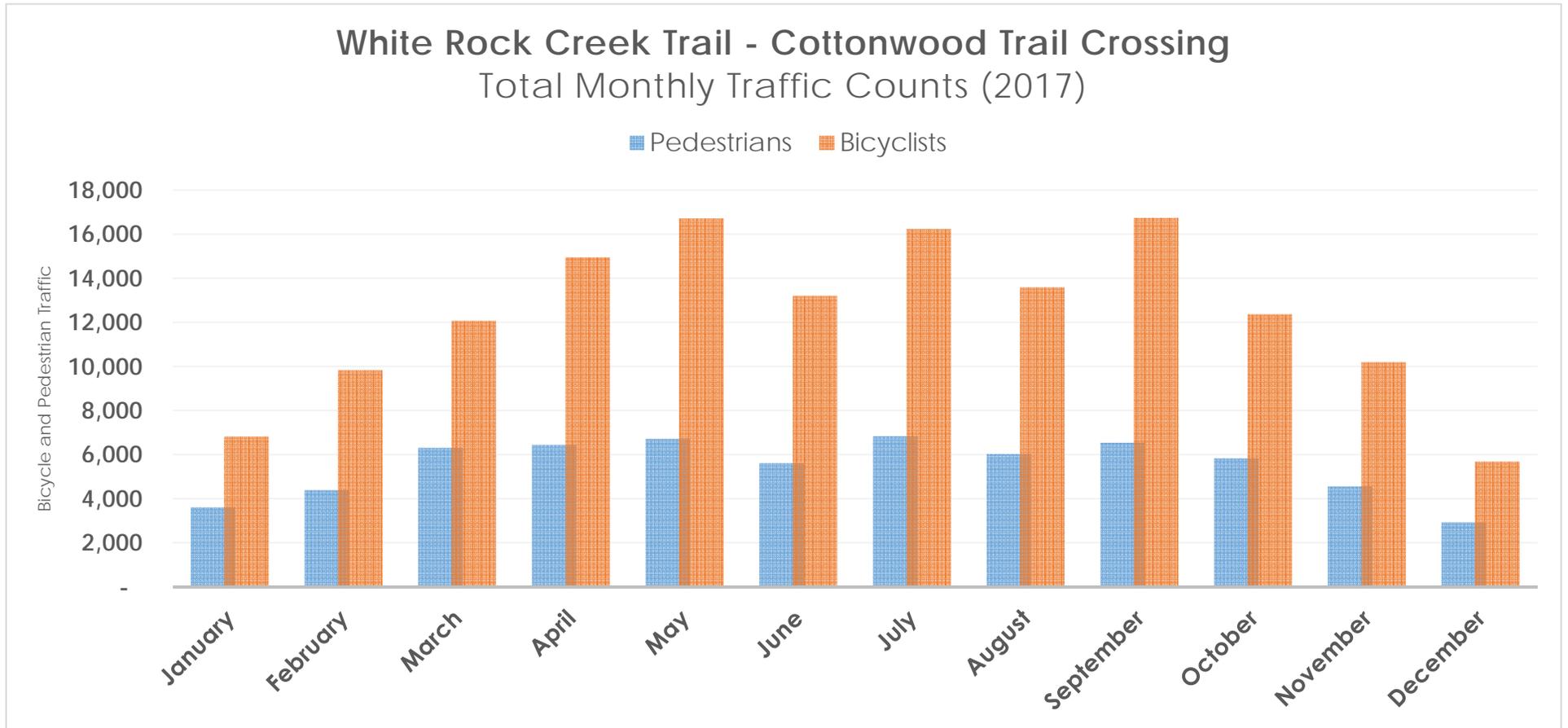
Exhibit 43:



2017 Annual Traffic	
Pedestrians	72,889
Bicyclists	357,184
Total Traffic	430,073

Dallas

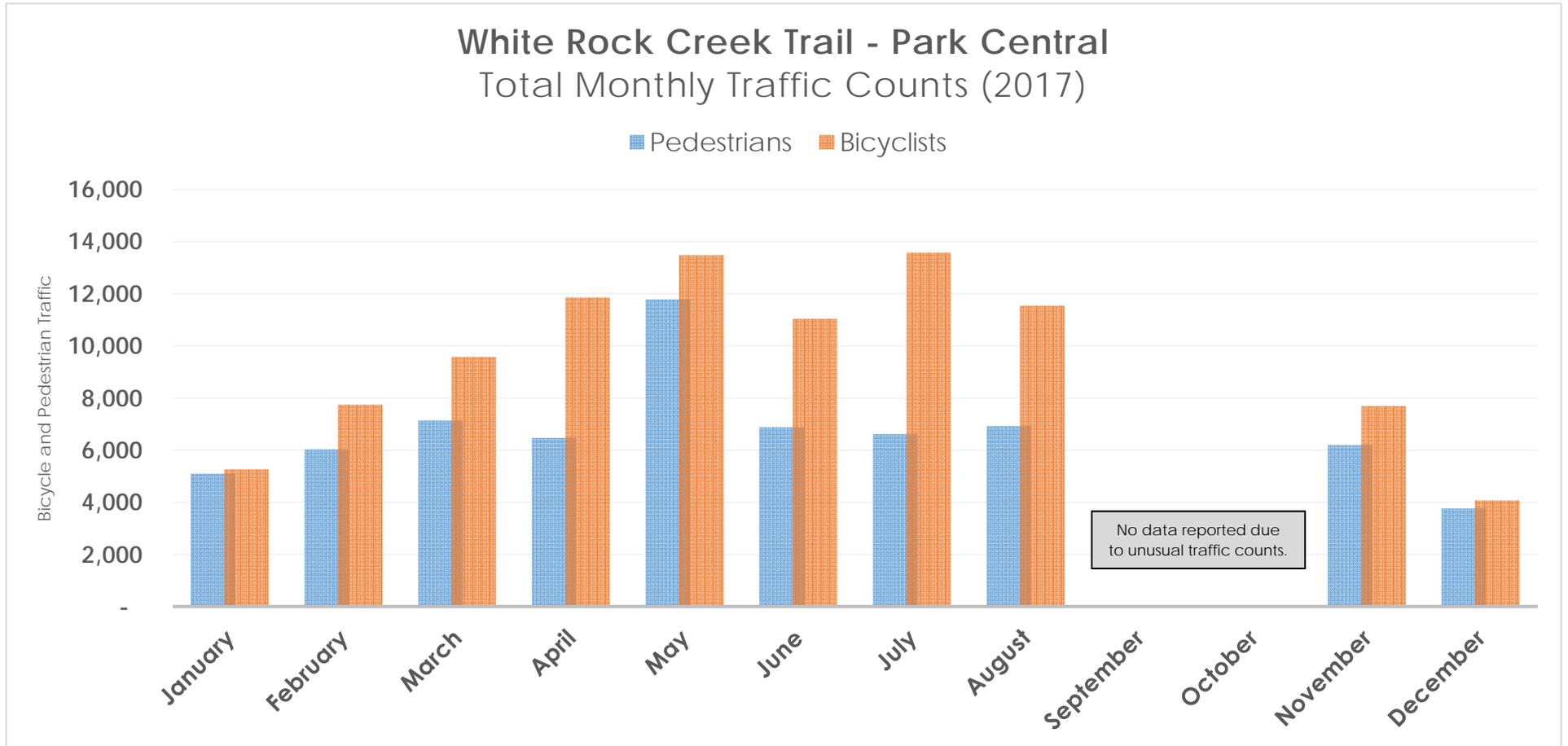
Exhibit 44:



2017 Annual Traffic	
Pedestrians	65,784
Bicyclists	148,404
Total Traffic	214,188

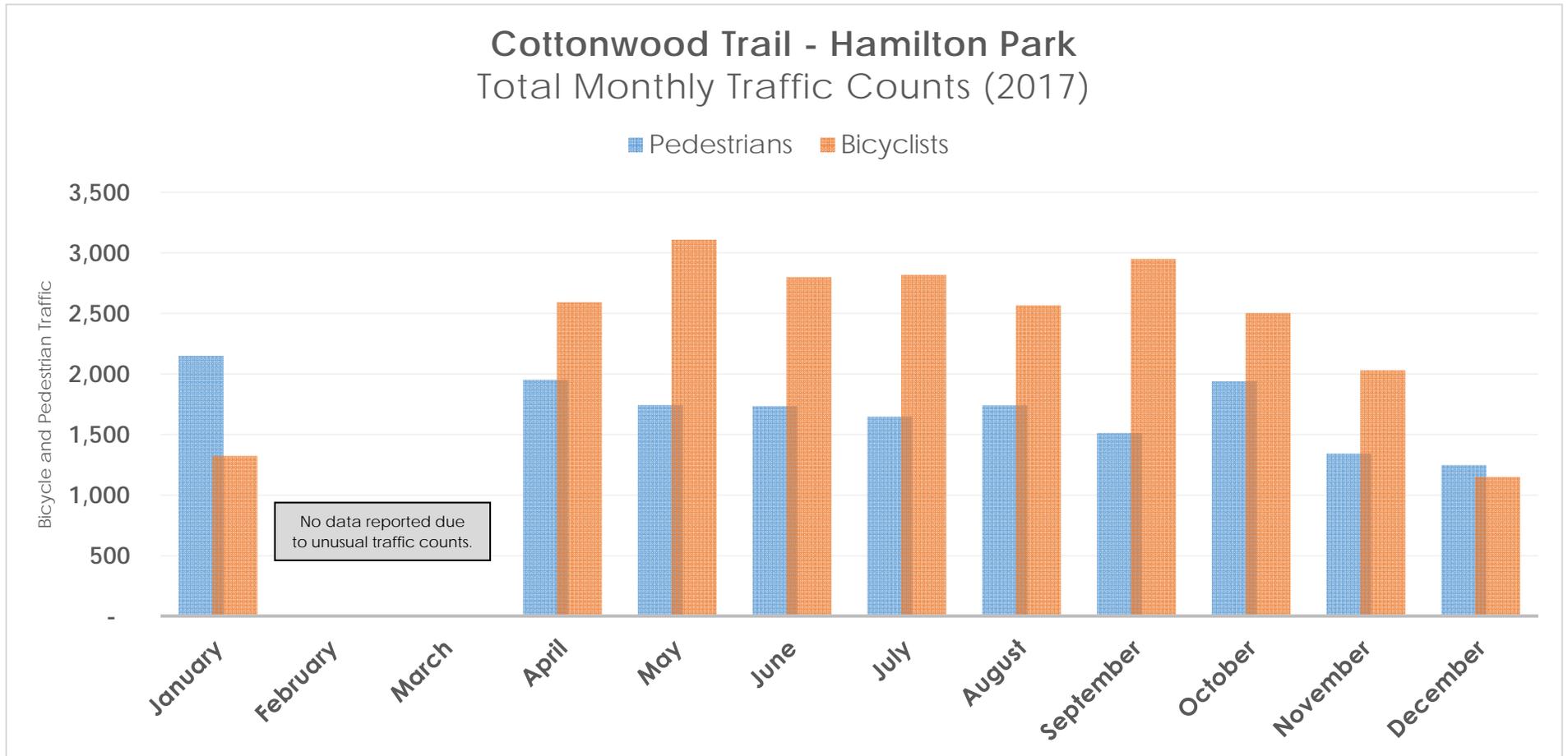
Dallas

Exhibit 45:



2017 Annual Traffic (partial year)	
Pedestrians	66,905
Bicyclists	95,844
Total Traffic	162,749

Exhibit 46:



2017 Annual Traffic (partial year)	
Pedestrians	17,017
Bicyclists	23,843
Total Traffic	40,860