

Seattle Department of Transportation

# 2023 Traffic Report

DATA FROM JANUARY 1 - DECEMBER 31, 2022



Release date: April 2024



**Seattle**  
Department of  
Transportation







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## EXECUTIVE SUMMARY

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In 2022, Seattle experienced continued changes in traffic patterns from the easing of the COVID-19 pandemic and reopening of the West Seattle High-Rise Bridge. Transit, pedestrian, bicycle and traffic volumes were generally higher than in 2021 but remained below pre-COVID-19 levels. Since the inception of the Vision Zero program in 2015, the total number of fatal and serious injury collisions have been on an upward trend. The following are key findings based on 2022 and historical data:

- In 2022, average daily traffic has rebounded to 86% of 2019 pre-Covid volumes within the city.
- From 2019 to 2022, the Seattle population has increased by over 15,000 residents, or a 2% increase.
- In 2022, transit ridership has rebounded to 56% of 2019 pre-COVID volumes in the region.
- From 2019 to 2021, the share of commuters working from home increased from 8% to 47%, however from 2021 to 2022, the share decreased to 36%.
- The West Seattle Bridge re-opened in September 2022, and 70% of pre-closure volumes returned.
- In 2022, bike volumes increased by 11% compared to 2021, but were still 27% less than 2019 volumes.
- In 2022, pedestrian volumes increased by 25% from 2021 but were still 27% less than 2019 volumes.
- 2022 police reported collisions remained consistent with 2021 numbers.
- The 2022 citywide collision rate decreased by 33% from 2021. Even though the overall number of collisions remained comparable to 2021, the rate dropped due to a rebound in traffic volumes.
- The number of fatal collisions in 2022 was the same as in 2021, however the number of serious injury collisions was 19% higher.
- The 2022 numbers of serious injury and fatal collisions continues to trend upwards.
- Serious injury and fatal pedestrian collisions comprised 27% of total pedestrian collisions, compared to 23% in 2021.
- Serious injury and fatal bicycle collisions comprised 13% of total bicycle collisions, compared to 9% in 2021.

This report presents the traffic data that – along with our department plans and policies – serve as the foundation of project and program decisions. The breadth and depth of the data collected allows objective discussion of project merits and results, be it a new crosswalk or an entire safety corridor. As the demands and complexity of Seattle’s transportation network grow, the information supporting decisions about that network continues to expand and now includes significant data on people walking, biking, and freight.

This report is prepared in compliance with [Seattle Municipal Code 11.16.220](#), and beyond this legal requirement, the report strives to serve as an accessible reference of Seattle traffic data and trends for all. In gathering and compiling the information in this report, the Seattle Department of Transportation does not waive the limitations on this information’s discoverability or admissibility under 23 U.S.C § 409.

Additional information about traffic data and collisions on Seattle streets can be found on the [Seattle Open Data Portal](#) and SDOT webpage at [www.seattle.gov/transportation/](http://www.seattle.gov/transportation/).



**Greg Spotts**  
SDOT Director



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SDOT City Traffic Engineer







# Traffic Volumes and Speeds

The Seattle Department of Transportation (SDOT) collects and maintains volume data for vehicles (including freight and buses), people walking, and biking. Engineers and planners use volume data to select future project locations, support grant applications, and track the performance of projects once they are installed.

SDOT collects and purchases vehicle speed data in addition to volume data. Speed data is particularly useful for making traffic safety decisions such as those connected with traffic calming, Safe Routes to School, Seattle's Vision Zero program, and crossing improvements.

Speed data also provides important information about the types of vehicles using city streets, including motorcycles, cars, buses, and numerous types of trucks. Such data gives planners and engineers a better understanding of the movement of people and goods within the city.

## MOTOR VEHICLE VOLUMES

SDOT is responsible for counting the volume of traffic on certain city arterial streets each year.

SDOT conducts control counts at about 20 locations every month. These counts are used to create monthly control factors. These factors can be applied to every count collected to adjust for seasonal changes in traffic. SDOT also measures vehicle volume at approximately 250 additional locations. The locations of control and other regular counts are shown on maps and tables in the Supporting Data at the end of this report. SDOT also measures vehicle volume at ad hoc locations throughout the year as needed for traffic analysis and engineering studies.

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**Traffic volumes, reported collisions, and speeds are the three cardinal pieces of data traffic engineers and planners use to evaluate changes to Seattle rights-of-way.**

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Using the annual counts taken at 13 bridges in Seattle (including I-5, I-90, SR 520, and 1st Ave S), SDOT derives a proxy number for citywide motor vehicle Average Daily Traffic (ADT) volume. Traffic volumes were fairly level between 2012 and 2019.

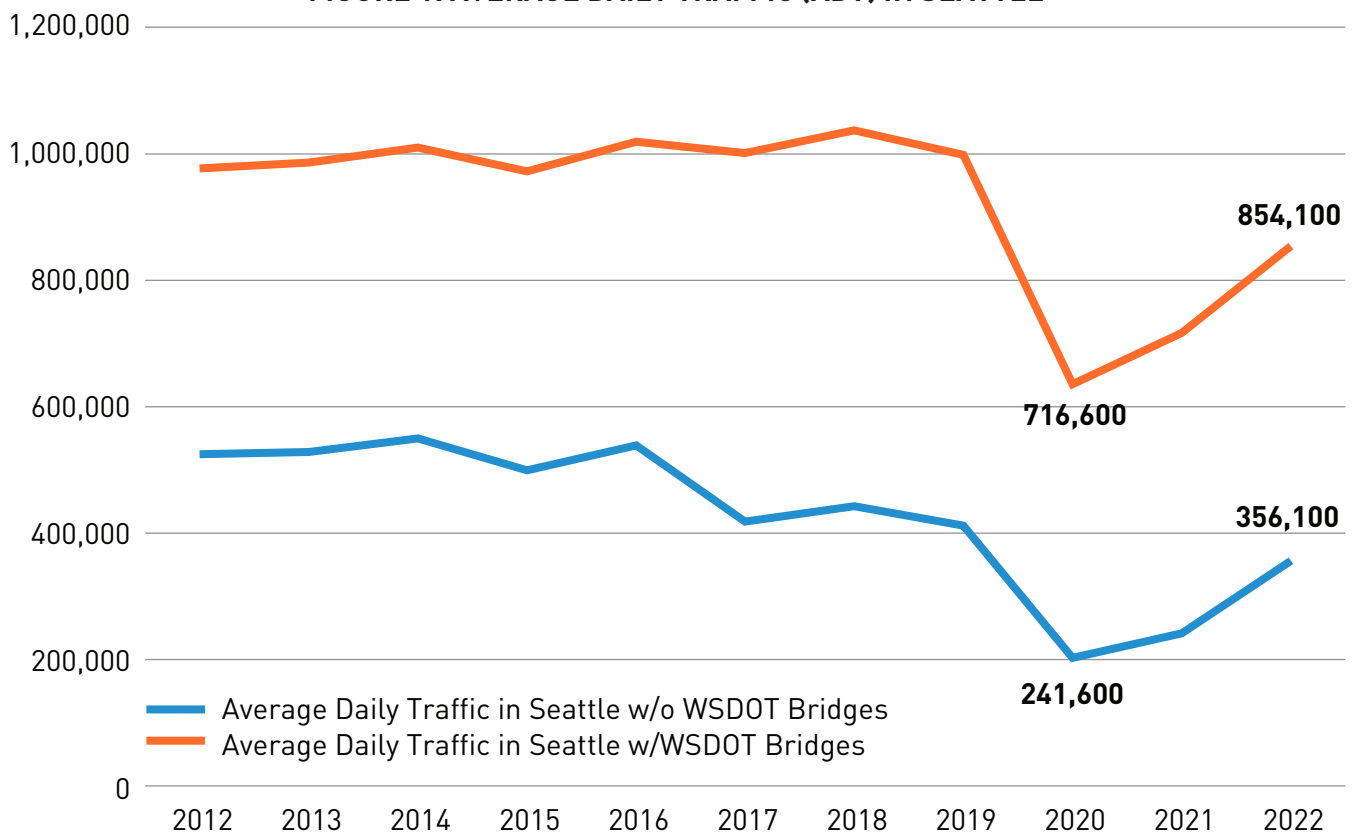
Beginning in 2020, the combination of the COVID-19 pandemic, a shift to mass telecommuting, and the emergency closure of the West Seattle High-Rise Bridge led to a sharp decrease in traffic volumes. In 2022, the traffic volumes rebounded but remained below pre-COVID and pre-West Seattle High-Rise Bridge closure numbers. Figure 1 shows Seattle's overall ADT trend since 2012. Population, transit ridership, and employment trends are shown in Figures 2 through 5, along with commute mode share for context.



## Key Findings

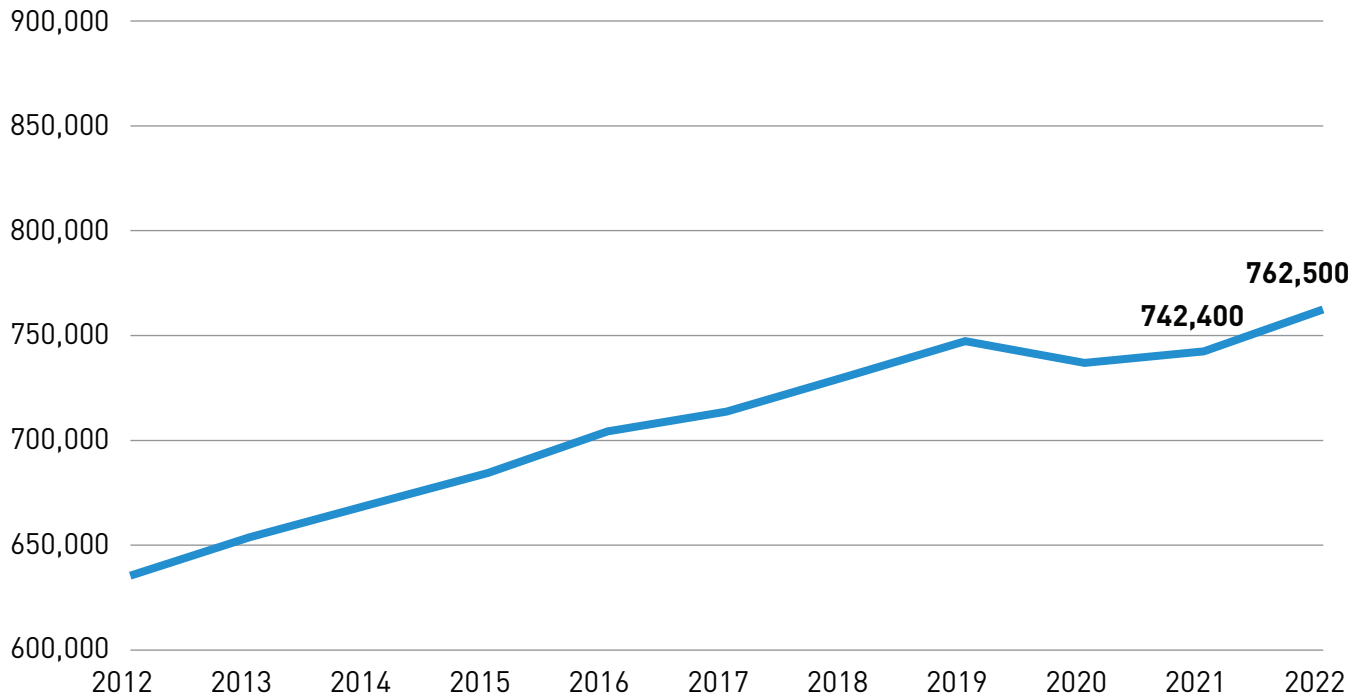
- In 2022, average daily traffic has rebounded to 86% of 2019 pre-Covid volumes within the city.
- From 2019 to 2022, the Seattle population has increased by over 15,000 residents, or a 2% increase.
- In 2022, transit ridership has rebounded to 56% of 2019 pre-COVID volumes in the region.
- From 2019 to 2021, the share of commuters working from home increased from 8% to 47%, however from 2021 to 2022, the share decreased to 36%.

**FIGURE 1: AVERAGE DAILY TRAFFIC (ADT) IN SEATTLE**

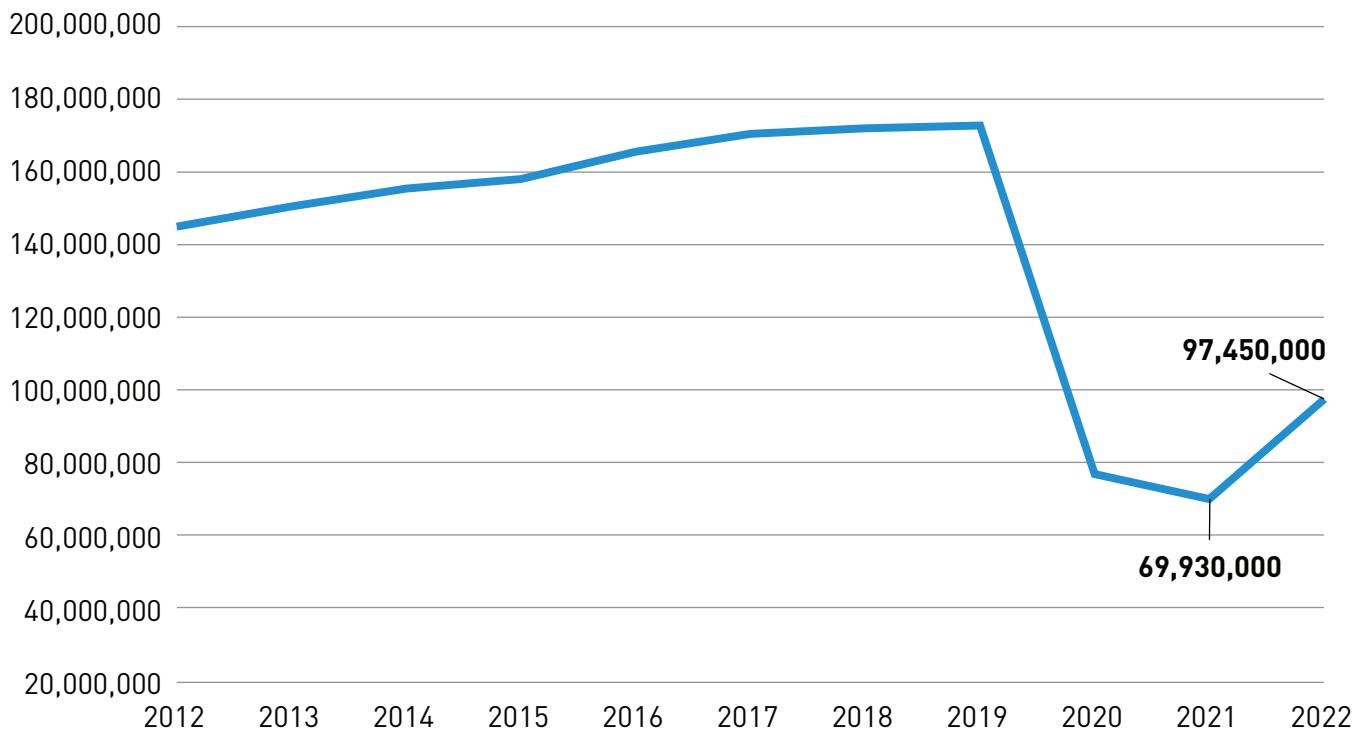




**FIGURE 2: SEATTLE POPULATION**



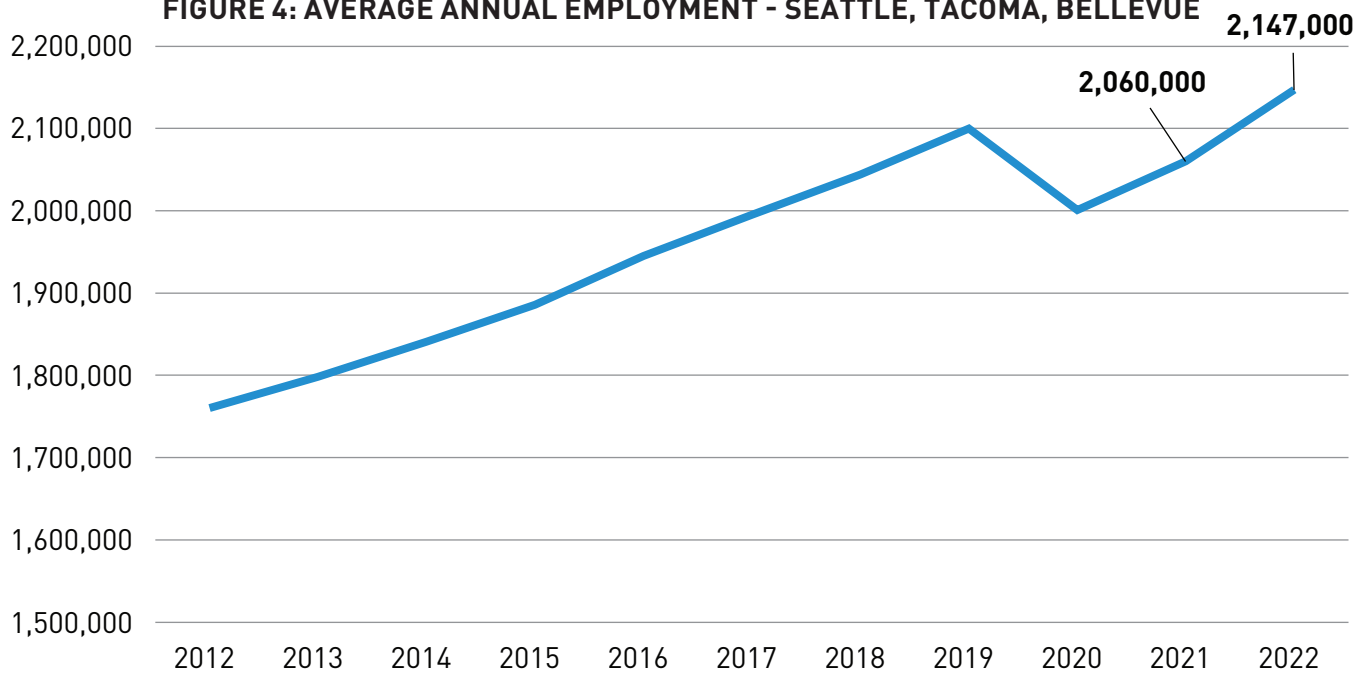
**FIGURE 3: ANNUAL REGIONAL TRANSIT RIDERSHIP**



\*Annual Regional Transit Ridership is shown as tabulated in Table 15.



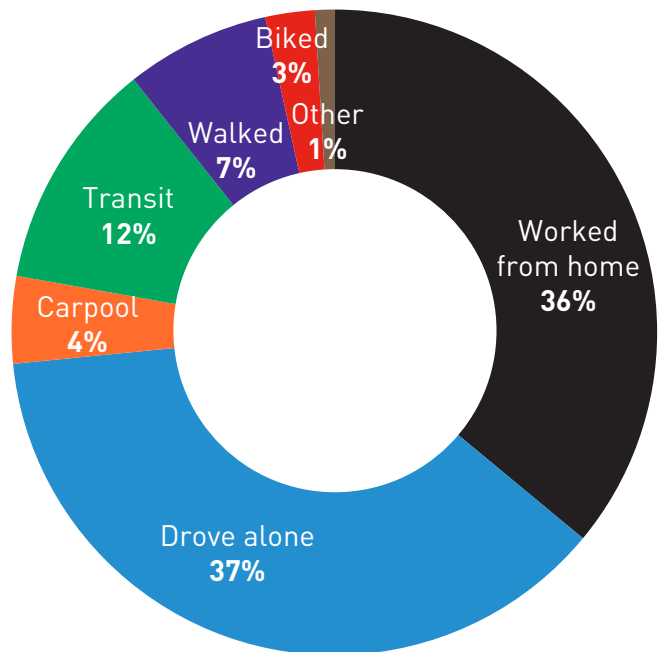
**FIGURE 4: AVERAGE ANNUAL EMPLOYMENT - SEATTLE, TACOMA, BELLEVUE**



Source: Bureau of Labor, 2022, <https://beta.bls.gov/dataViewer/view/timeseries/LAUMT534266000000005>



**FIGURE 5: SEATTLE COMMUTE MODE SHARE**



Source: US Census Bureau, <https://data.census.gov/table/ACSDT1Y2022.B08301?q=seattle+B08301&g=160XX00US5363000>





## TRAFFIC FLOW AND ARTERIAL CLASS MAPS

The 2022 Traffic Flow Map, shown in Figure 6, and the Arterial Classification Map, shown in Figure 7, are two products of the volume counts program. The volumes on the map represent the Average Weekday Daily Traffic (AWDT) (Monday through Friday, 24-hour) for that section of roadway. A full-size version of this map is available on SDOT's website at: [www.seattle.gov/transportation/document-library/reports-and-studies](http://www.seattle.gov/transportation/document-library/reports-and-studies)

Table 1 lists the ten busiest arterials Average Weekday Daily Traffic (AWDT) as measured in 2022. In general, traffic volumes on city streets in 2022 were higher than in 2021 but remained below pre-COVID-19 levels. The West Seattle High-Rise Bridge reopening in September 2022 impacted traffic volumes in the West Seattle and Duwamish River Valley corridors. After the Bridge reopened, approximately 70% of the trips returned from the 2019 baseline AWDT of 84,100.

## Key Findings

The West Seattle Bridge re-opened in September 2022, and 70% of pre-closure volumes returned.

**TABLE 1: TOP 10 ARTERIALS BY VOLUME (AWDT)**

| Top 10 Arterials by Volume - as measured in 2022 | Average Weekday Daily Traffic (AWDT) |
|--|--------------------------------------|
| 1st Ave S Bridge                                 | 85,000                               |
| West Seattle High-Rise Bridge                    | 59,200                               |
| Aurora Bridge                                    | 54,000                               |
| Montlake Bridge                                  | 54,000                               |
| East Marginal Way, N/O 1st Ave S                 | 53,600                               |
| S Spokane St, E/O 1st Ave S                      | 45,700                               |
| Mercer St, E/O Westlake Ave N                    | 44,100                               |
| Ballard Bridge                                   | 36,600                               |
| Elliott Ave W, NW/O W Mercer Pl                  | 32,400                               |
| Denny Way, W/O 2nd Ave                           | 29,400                               |



### FIGURE 6: 2022 SEATTLE TRAFFIC FLOW MAP

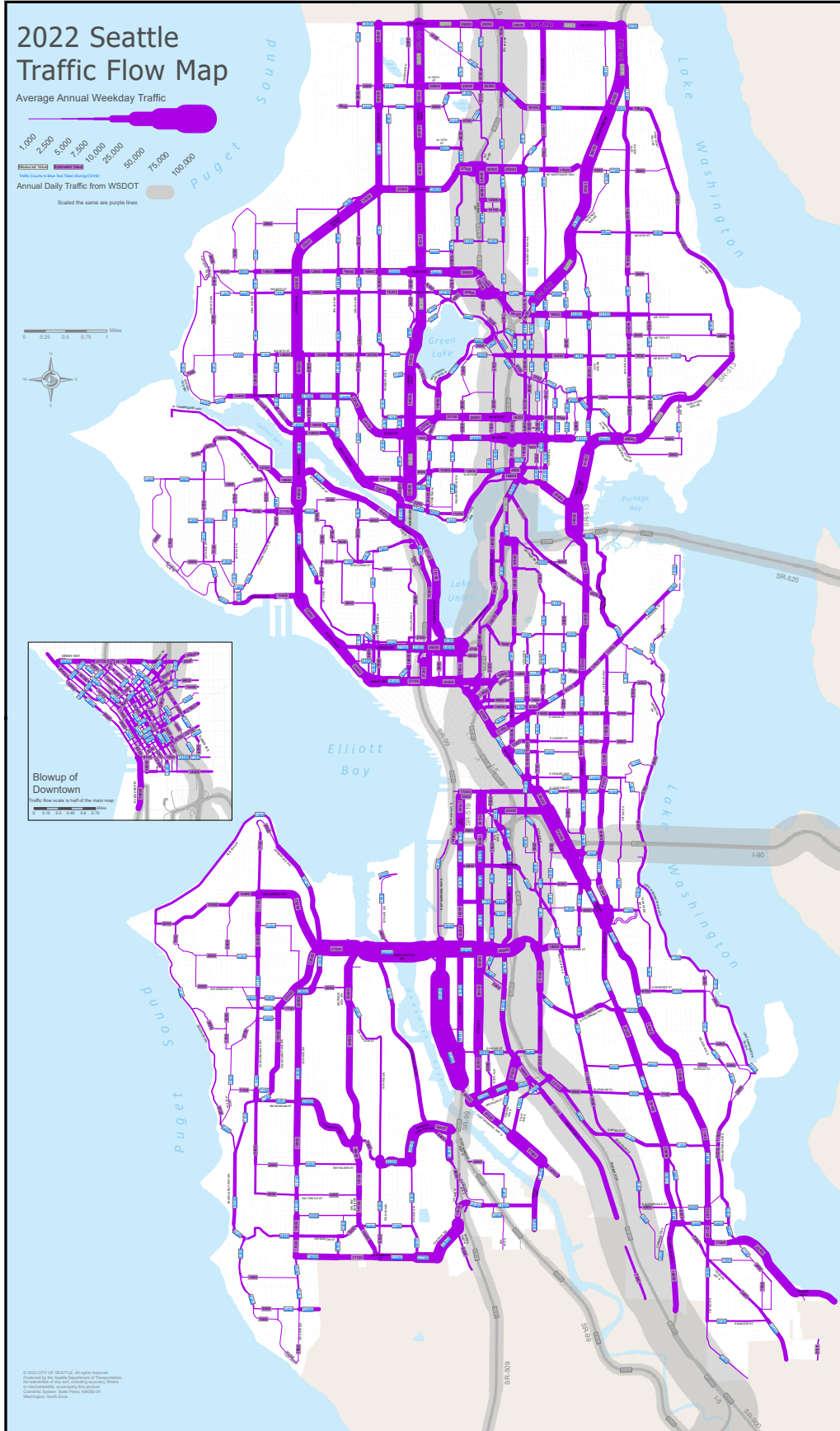


FIGURE 7: SEATTLE ARTERIAL CLASSIFICATION





# BICYCLE VOLUMES

In 2022, SDOT collected volumes of people biking with three different programs: automated permanent bicycle counters at 4 locations, about 100 multiday short counts, and regular spot counts at 50 intersections.

## Key Findings

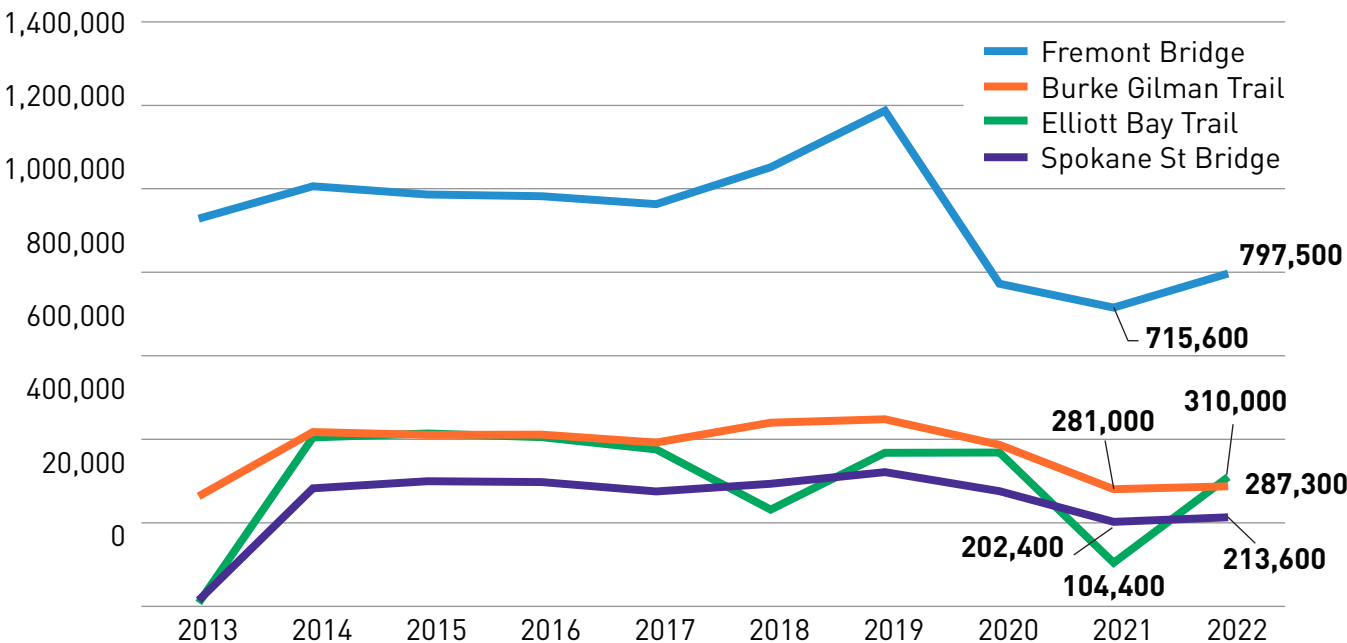
In 2022, bike volumes increased by 11% compared to 2021, but were still 27% less than 2019 volumes.

# Automated Bicycle Counters

The automated permanent bicycle counters collect volumes at 4 locations collect bike data 24 hours a day, 7 days a week. This data shows both hourly and daily patterns of people biking and allows the effects of weather and other factors to be evaluated. The first automated permanent bicycle counter was installed in October 2012 to count people biking across the Fremont Bridge on both eastern and western sidewalks. The location is Seattle’s busiest bicycle count location. As seen in Figure 8, the total bike volume for 2022 was 797,500, which represents an 11% increase compared to 2021, but was still 33% less than 2019 volumes. 2022 marks the tenth full year of complete data for the Fremont Bridge bike counter.

The impact of COVID-19 pandemic and the induced shift to teleworking continues to impact volumes of people biking. Table 2 provides more detailed breakdowns of the Fremont Bridge bike count data for 2022 as well as the 3 other permanent bike count locations.

FIGURE 8: PERMANENT BIKE COUNTER COUNT TOTAL





**TABLE 2: 2022 PERMANENT BIKE COUNTER SUMMARY**

|                              | Burke Gilman Trail, north of NE 70th St | Elliott Bay Trail in Myrtle Edwards Park | Fremont Bridge Sidewalks, south of N 34th St | Spokane St. Bridge, west of 11th Ave SW |
|------------------------------|---|--|--|---|
| Daily Average                | 800                                     | 800                                      | 2,200  | 600                                     |
| Average weekdays             | 700                                     | 800                                      | 2,300  | 600                                     |
| Average weekend traffic      | 1,100                                   | 900                                      | 1,800  | 400                                     |
| Daily Median                 | 800                                     | 800                                      | 2,200  | 600                                     |
| Peak Count                   | 2,500                                   | 1,800                                    | 4,200  | 1,500                                   |
| Peak Day                     | Saturday<br>June 25, 2022               | Saturday<br>June 25, 2022                | Saturday<br>August 13, 2022                  | Tuesday<br>July 19, 2022                |
| Average peak day of the week | Sunday                                  | Saturday                                 | Wednesday                                    | Wednesday                               |

In addition to the Fremont Bridge permanent bike counter, 2022 marks the tenth continuous year of full counts from three other permanent bike counters on multi-use trails.

To obtain total annual bike count numbers, SDOT used the day of the year data to fill in data gaps from the permanent bike counters in accordance with the National Cooperative Highway Research Program (NCHRP) Report 797 methodology. The results are shown in Table 3, presenting the total annual bike count at 4 locations from 2018 to 2022.

**TABLE 3: BICYCLE PERMANENT COUNTS**

| Site                              | 2018 Annual Count | 2019 Annual Count | 2020 Annual Count | 2021 Annual Count | 2022 Annual Count |
|-----------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Burke Gilman north of NE 70th St  | 348,100           | 511,700           | 420,000           | 311,200           | 310,000           |
| Elliott Bay in Myrtle Edward Park | 439,700           | 287,300           | 387,200           | 378,600           | 287,300           |
| Fremont Bridge Bike Counter       | 1,051,900         | 1,187,200         | 772,600           | 715,600           | 797,500           |
| Spokane St Bridge*                | 239,500           | 321,800           | 285,600           | 269,400           | 261,800           |

\*Spokane St Bridge bike counts may have been influenced by the West Seattle High-Rise Bridge closure/detours and the corresponding mode shift.



## Multiday Short Bike Counts

In 2022, SDOT conducted about 100 multiday short bike counts in different parts of the city in addition to the permanent bike counting locations. These 7-day bike counts provide a snapshot of the number of people biking across a wider geographic area than the locations with permanent bike counters. These multiday short bike counts support the Bicycle Master Plan's ridership performance measurement and/or ad-hoc projects across Seattle.

Using bike volumes from the permanent counting locations, SDOT created daily volume factors to extrapolate short bike counts into annual volume estimates for approximately 100 locations (as per NCHRP report 797). Because of the high seasonal variation in volume of people biking, the daily summer volume is often higher than the annual average daily volume. In contrast, the number of people biking in the winter is lower than the annual average. Table 17 in the Appendix presents the multiday short bike counts extrapolated into annual volume estimates.

## Quarterly Citywide Bike Counts

In 2011 SDOT began a systematic bicycle counts program that uses the National Bicycle and Pedestrian Documentation (NBPDP) methodology to count bicycles and pedestrians at 50 locations citywide multiple times a year. These counts were taken quarterly in winter, spring, summer, and autumn from 2011 to 2013 and 2020 onwards and were taken three times a year from 2014 to 2019. For every count iteration, the volume of people biking was collected during the weekday AM peak (7-9 am), the weekday PM peak (5-7 pm), and Saturday (noon-2pm) time periods. Figure 9 shows the annual bike count trend from 2012 to 2022 by season. Figure 10 represents the quarterly sum of bike counts at those 50 locations collected quarterly using the NBPDP methodology.

In 2022, the quarterly citywide bike count program documented 25,400 people biking. The overall number of people biking rebounded from 2020, but it was still lower compared to the pre-COVID-19 conditions. We also conducted short counts in different locations and have permanent counters. These counts provide a better assessment of daily ridership due to longer periods of counts. From the NBPDP count analysis Fremont Ave N showed the most overall ridership with approximately 3,500 total weekday riders.

**FIGURE 9: NBPDP SPRING, SUMMER, FALL AND WINTER QUARTER BIKE VOLUMES FOR THE PAST DECADE**

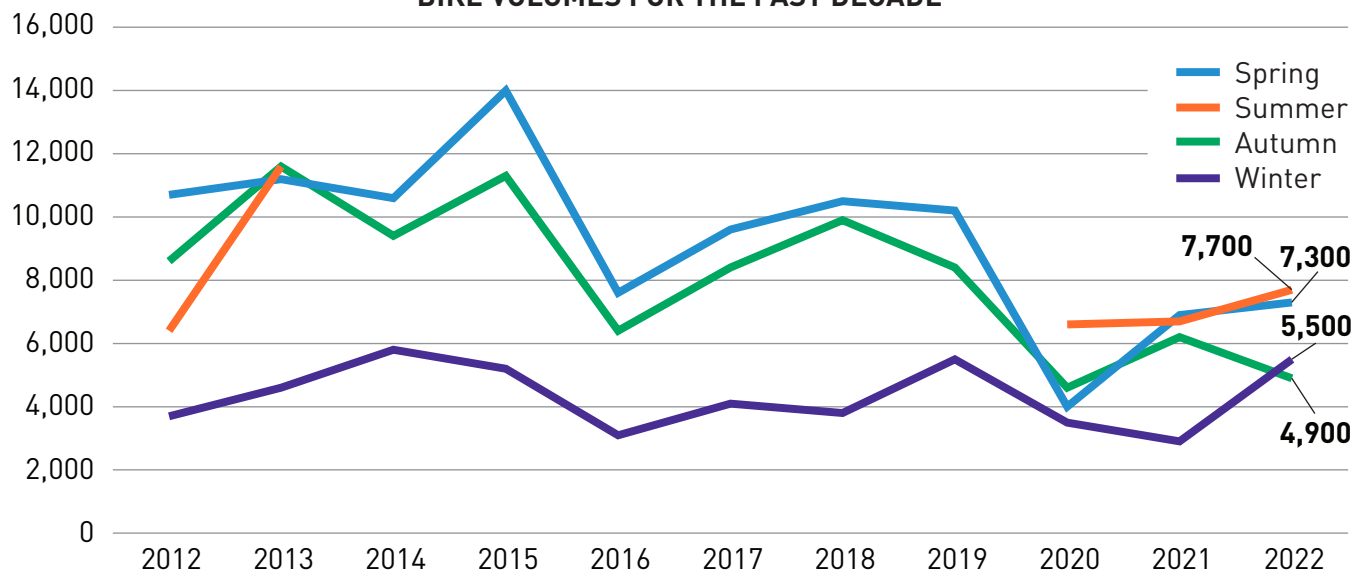
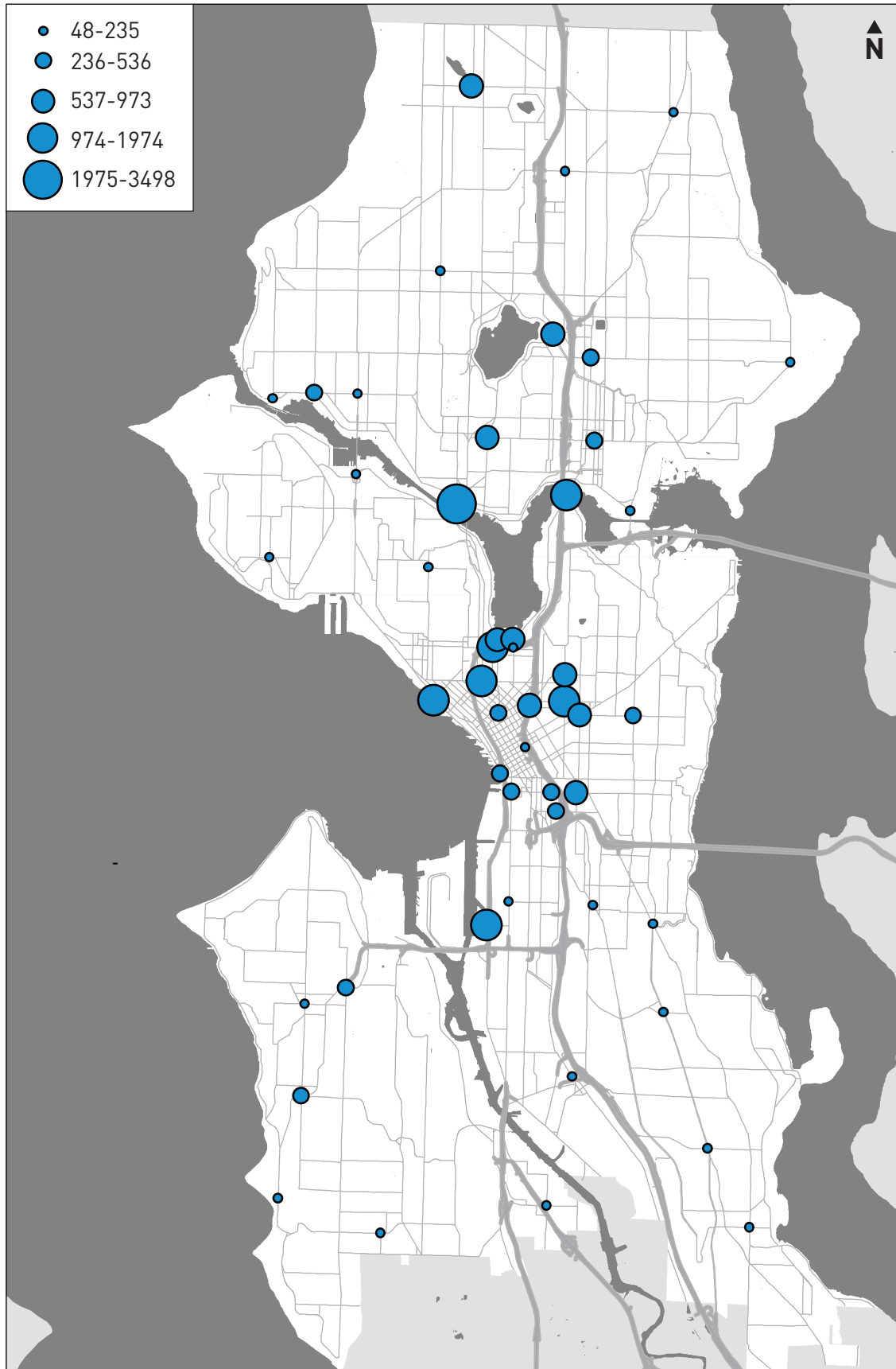




FIGURE 10: 2022 AVERAGE DAILY BIKE VOLUMES FOR NBPD



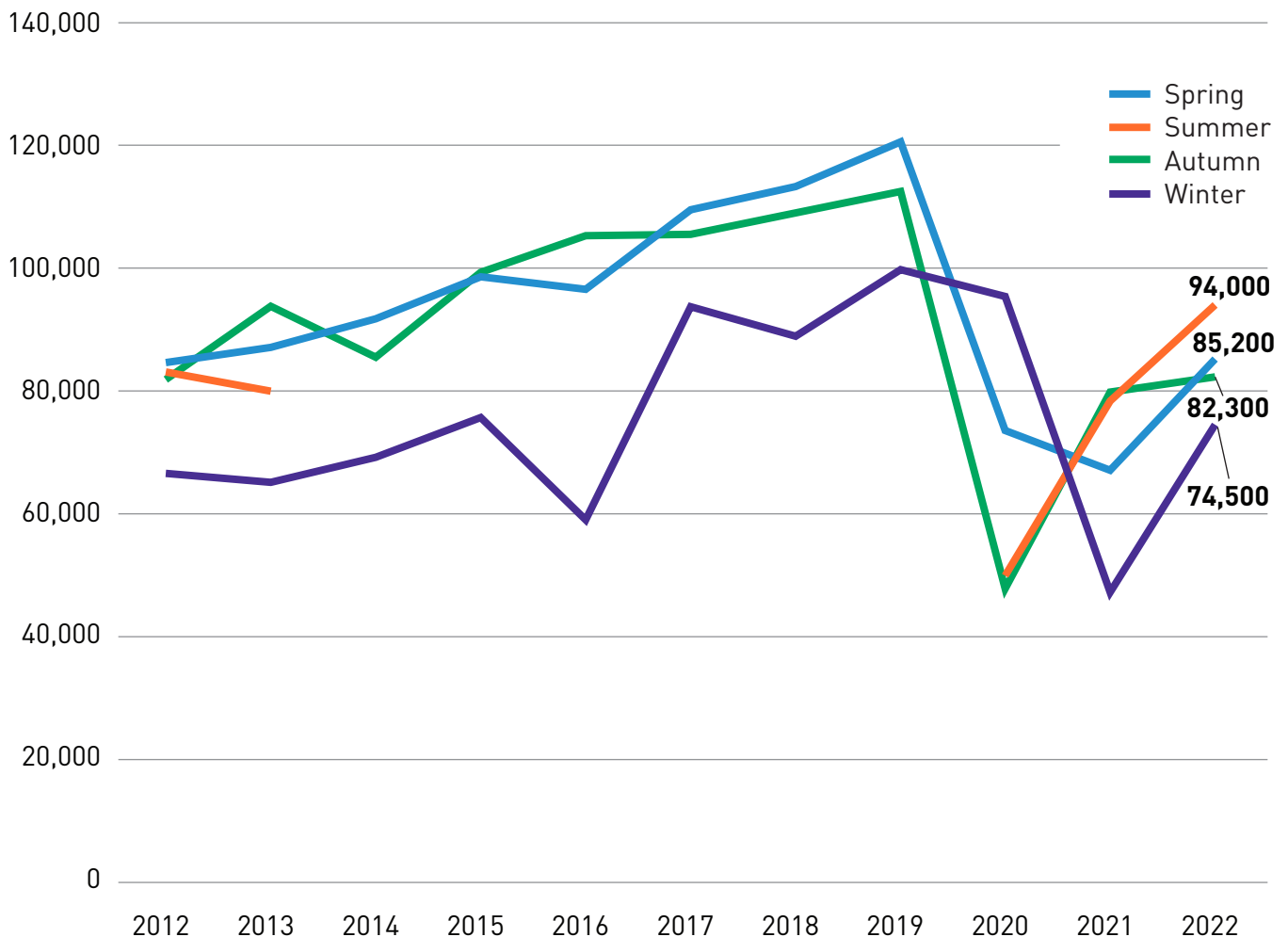
## PEDESTRIAN VOLUMES

Beginning in 2011, SDOT began collecting quarterly citywide counts using the National Bicycle and Pedestrian Documentation (NBPD) methodology. Since these pedestrian counts are collected in conjunction with the bicycle counts, they share the quarterly frequency, as well as the weekday AM peak (7-9 am), weekday PM peak (5-7 pm) and Saturday (noon-2pm) time periods. Some of the permanent multi-use trail counter locations can also measure pedestrian volumes.

## KEY FINDINGS

In 2022, pedestrian volumes increased by 25% compared to 2021 but were still 27% less than 2019 volumes.

**FIGURE 11: NBPD SPRING, SUMMER, FALL AND WINTER QUARTER  
PEDESTRIAN VOLUMES FOR THE PAST DECADE**





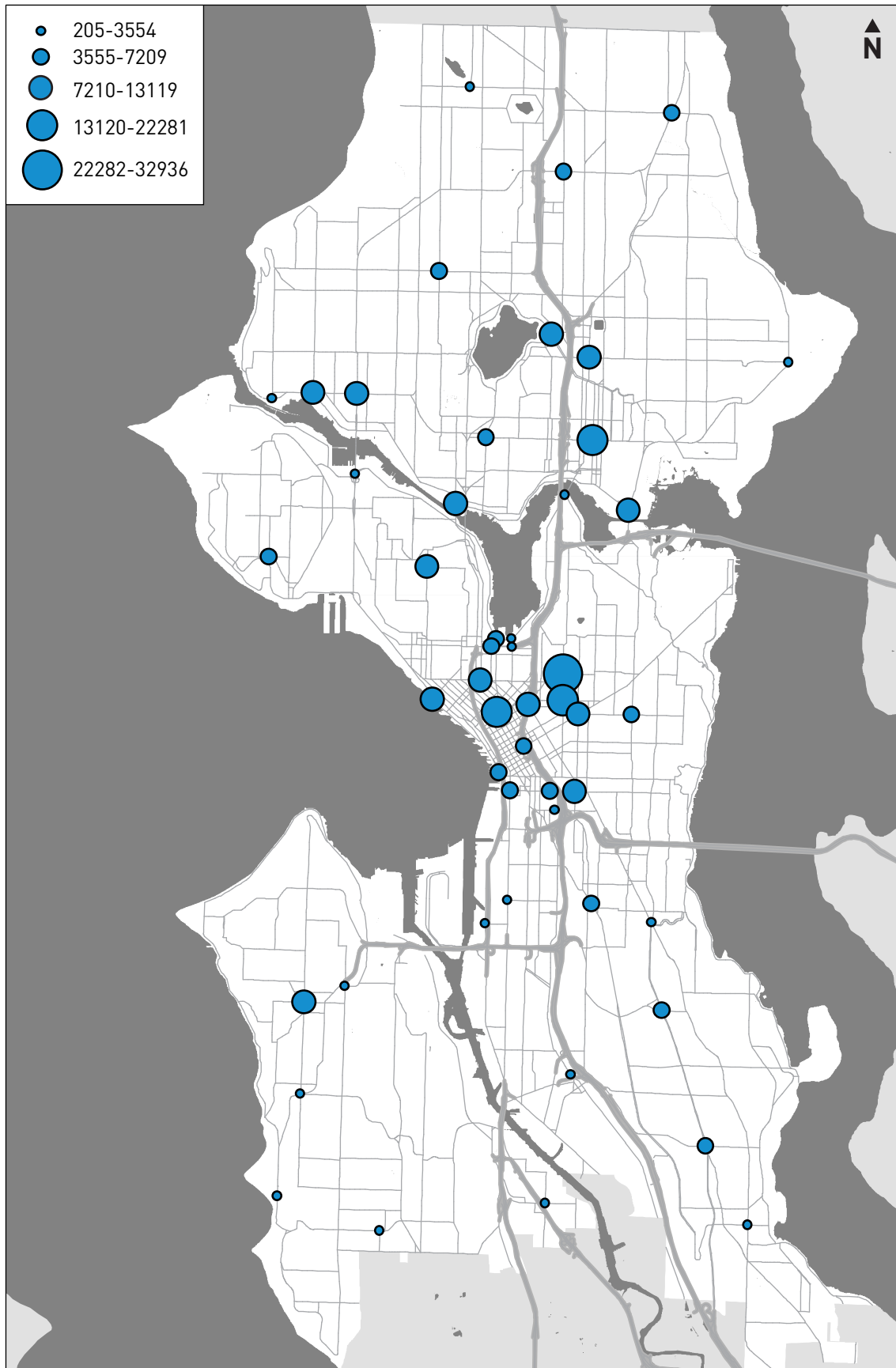
## Quarterly Citywide Pedestrian Counts

In 2011, SDOT started using the NBPD project methodology for counting the volume of people walking and biking. These spot counts provide consistent, annual pedestrian volumes that we can track over time. Each count is conducted at an intersection and records the number of pedestrians crossing each leg of the intersection. Figure 11 shows the total combined annual pedestrian counts by season at the 50 NBPD locations for 2012 to 2022. The discontinuous gray trendline indicates counts collected in summer due to SDOT resuming this data collection in 2020.

The total number of people walking counted in 2022 by the program was 336,000, up 25% from the COVID-19 low in 2020, but still below the pre-COVID-19 numbers for winter, spring, and autumn. The busiest pedestrian location counted in 2022 was Broadway and East Olive Street with approximately 32,900 total pedestrians counted; this location also had the highest pedestrian volumes counted for the previous years. Figure 12 shows the pedestrian volumes and count locations for the 2022 NBPD iteration. Details of the 2022 counts by location are available on the web at <http://data.seattle.gov>.



FIGURE 12: 2022 AVERAGE DAILY PEDESTRIAN VOLUME FOR NBPD





## MOTOR VEHICLE SPEEDS

SDOT began collecting speed data on a regular four-year rotation cycle in 2010, at about 250 unique locations, in addition to the ad-hoc locations that serve site-specific traffic evaluation needs. Each year, SDOT collects vehicle speeds at about 50 to 70 of the 250 locations for regular speed measurements and a variable number of one-off, project-based locations for purposes of traffic safety investigations, prospective project selection and design, and for evaluation of completed projects. Additionally, SDOT subscribed to a third-party data service to better understand speeds on many streets in Seattle.

The third-party vendor uses anonymized probe data to calculate speeds on street segments. This data is available for most but not all city street segments, with the arterial network and busier streets most represented.

Engineers measure speed in different ways, but the 85th percentile measure is the most widely used. It represents the speed at or below which 85 percent of traffic travels. Of the approximately 50 regular speed study locations measured in 2022, Table 4 lists those street segments with 85th percentile speeds exceeding 30 miles per hour (mph).

**TABLE 4: SPEED STUDY LOCATIONS WITH 85TH PERCENTILE SPEED EXCEEDING 30 MPH**

| Location                             | Direction | 2022 Speed Limit | 85th Percentile Speed |
|--------------------------------------|-----------|------------------|-----------------------|
| 16th Ave S, N/O 16th Ave S Br        | NB        | 30               | 43.9                  |
| 16th Ave S, N/O 16th Ave S Br        | SB        | 30               | 43.4                  |
| SW Admiral Way, SE/O SW City View St | SEB       | 25               | 41.8                  |
| SW Admiral Way, SE/O SW City View St | NWB       | 25               | 40.7                  |
| Greenwood Ave N, S/O N 145th St      | SB        | 30               | 38.7                  |
| Elliott Ave W SE/O W Mercer Pl       | SEB       | 25               | 38.5                  |
| NE Northgate Way, W/O 15th Ave NE    | EB        | 25               | 38.3                  |
| Elliott Ave W SE/O W Mercer Pl       | NWB       | 25               | 38.1                  |
| 4th Ave S, N/O S Dawson St           | SB        | 30               | 37.7                  |
| Pinehurst Way NE, NE/O NE 115th St   | SWB       | 25               | 37.5                  |
| 4th Ave S, N/O Dawson St             | NB        | 30               | 37.3                  |
| NE Northgate Way, W/O 15th Ave NE    | WB        | 25               | 37.2                  |
| Aurora Ave N, S/O N 112th St         | SB        | 35               | 37.1                  |
| Greenwood Ave N, S/O N 145th St      | NB        | 30               | 37.1                  |
| Ellis Ave S, S/O S Warsaw St         | NB        | 25               | 36.6                  |
| Sand Point Way NE, S/O NE 74th St    | SB        | 30               | 36.6                  |
| Pinehurst Way NE, NE/O NE 115th St   | NEB       | 25               | 36.5                  |
| Aurora Ave N, S/O N 112th St         | NB        | 35               | 36.5                  |
| Seaview Ave NW, N/O NW 67th St       | NB        | 25               | 36.2                  |
| NE 125th St, W/O 27th Ave NE         | WB        | 25               | 35.4                  |
| SW Avalon Way, N/O 30th Ave SW       | NB        | 25               | 35.1                  |
| 1st Ave NE, S/O NE 145th St          | NB        | 25               | 34.8                  |
| M L King Jr Way S, S/O S Holly St    | NB        | 25               | 34.6                  |
| Seaview Ave NW, N/O NW 67th St       | SB        | 25               | 34.5                  |

| Location                              | Direction | 2022 Speed Limit | 85th Percentile Speed |
|---------------------------------------|-----------|------------------|-----------------------|
| 8th Ave S, S/O S Director St          | NB        | 25               | 34.4                  |
| M L King Jr Way S, S/O S Holly St     | SB        | 25               | 34.2                  |
| Ellis Ave S, S/O S Warsaw St          | SB        | 25               | 34.0                  |
| 1st Ave NE, S/O NE 145th St           | SB        | 25               | 33.9                  |
| 24th Ave E, N/O E Prospect St         | SB        | 25               | 33.8                  |
| NE 125th St, W/O 27th Ave NE          | EB        | 25               | 33.5                  |
| Delridge Way SW, N/O SW Myrtle St     | SB        | 25               | 33.4                  |
| 31st Ave S, S/O S Jackson St          | NB        | 25               | 33.1                  |
| S Columbian Way, W/O Beacon Ave S     | WB        | 25               | 33.1                  |
| 35th Ave SW, S/O SW Morgan St         | NB        | 25               | 33.0                  |
| 8th Ave S, S/O S Director St          | SB        | 25               | 32.9                  |
| 35th Ave SW, S/O SW Morgan St         | SB        | 25               | 32.9                  |
| Rainier Ave S, NW/O S Holly St        | NWB       | 25               | 32.7                  |
| 24th Ave E, N/O E Prospect St         | NB        | 25               | 32.6                  |
| Greenwood Ave N, S/O Holman Rd N      | SB        | 25               | 32.6                  |
| 31st Ave S, S/O S Jackson St          | SB        | 25               | 32.4                  |
| SW Avalon Way, N/O 30th Ave SW        | SB        | 25               | 32.3                  |
| N 105th St, W/O Evanston Ave N        | WB        | 30               | 32.1                  |
| Nickerson St, NW/O Florentia St       | NWB       | 25               | 31.8                  |
| S Columbian Way, W/O Beacon Ave S     | EB        | 25               | 31.8                  |
| 3rd Ave NW, S/O NW 145th St           | NB        | 25               | 31.5                  |
| 3rd Ave NW, S/O NW 145th St           | SB        | 25               | 31.5                  |
| N 105th St, W/O Evanston Ave N        | EB        | 30               | 31.3                  |
| Greenwood Ave N, S/O Holman Rd N      | NB        | 25               | 31.3                  |
| S Othello St, E/O 43rd Ave S          | WB        | 25               | 31.2                  |
| SW Roxbury St, E/O 26th Ave SW        | WB        | 25               | 31.0                  |
| S Spokane SR ST, W/O 4th Ave S        | EB        | 25               | 31.0                  |
| SW Roxbury St, E/O 26th Ave SW        | EB        | 25               | 30.9                  |
| Fauntleroy Way SW, S/O SW Alaska St   | SB        | 25               | 30.8                  |
| NE 65th St, W/O 15th Ave NE           | EB        | 25               | 30.7                  |
| Beach Dr SW, SE/O 61st Ave SW         | NWB       | 25               | 30.7                  |
| Rainier Ave S, NW/O S Holly St        | SEB       | 25               | 30.6                  |
| E Green Lake Dr N, NW/O Latona Ave NE | SEB       | 25               | 30.5                  |
| 24th Ave NW, S/O NW 80th St           | SB        | 25               | 30.5                  |
| 24th Ave NW, S/O NW 80th St           | NB        | 25               | 30.3                  |
| N 50th St, W/O 1st Ave NE             | WB        | 25               | 30.3                  |
| Nickerson St, NW/O Florentia St       | SEB       | 25               | 30.2                  |
| N 50th St, W/O 1st Ave NE             | EB        | 25               | 30.0                  |



# Traffic Collisions

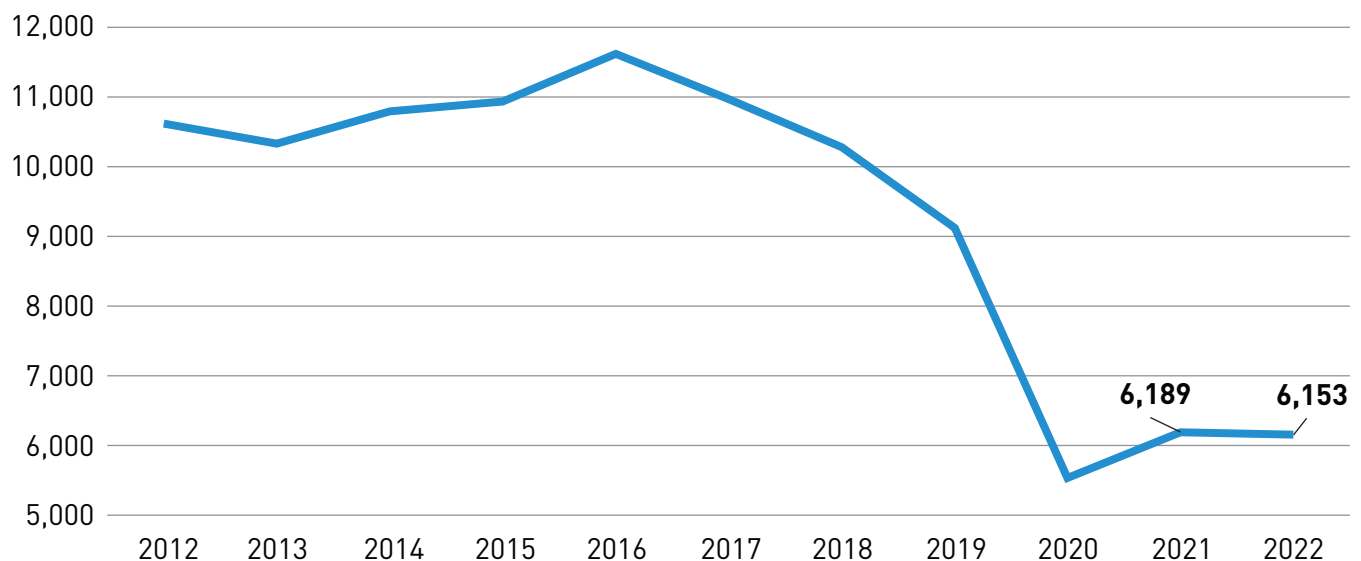
Collision data is used to help with safety analyses to identify locations that may benefit from further investigation. There were 6,153 police reported collisions on Seattle streets in 2022, a 32% decrease from 2019. In addition, there were 1,525 self-reported collisions, which are not included in our analysis due to reliability and completeness factors. Figure 13 shows the trend of police reported collisions on Seattle streets for 2012 to 2022. The trend for all types of reports is listed in the Supporting Data section.

**There were 6,153 collisions in 2022 on Seattle streets reported by police.**

## Key Findings

2022 police reported collisions remained consistent with 2021 numbers.

**FIGURE 13: POLICE REPORTED COLLISIONS ON SEATTLE STREETS**



## CITYWIDE COLLISION RATE

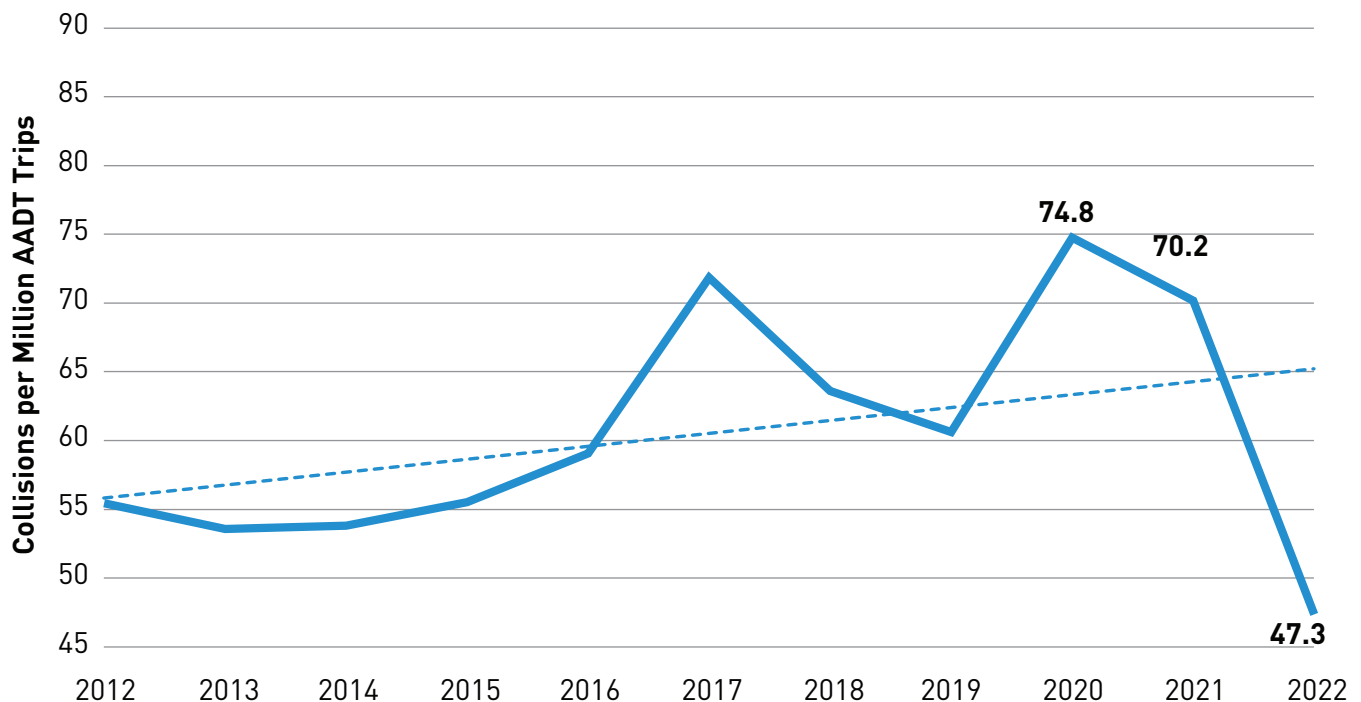
The Citywide Collision rate is the number of police reported collisions per million Average Annual Daily Trips (AADT). The AADT is a citywide approximation of arterial traffic volumes. In this case, AADT has been adjusted to exclude volumes on I-5, I-90 and SR-520 because our collision data do not include collisions on these roadways.

Figure 14 and Table 5 show the collision and rate trends for the past decade. For 2022, the overall citywide police reported collision rate decreased 33% compared to 2021. The number of police reported collisions stayed consistent with 2021, but ADT increased by 114,500 resulting in a lower citywide collision rate.

### Key Findings

The 2022 citywide collision rate decreased by 33% from 2021. Even though the overall number of collisions remained comparable to 2021, the rate dropped due to a rebound in traffic volumes.

FIGURE 14: CITYWIDE COLLISION RATE







**TABLE 5: COLLISION AND COLLISION RATE TRENDS**

| Year | All Collisions * | Police Reported Collisions | Average Daily Traffic | AADT        | Citywide Collision Rate |
|------|------------------|----------------------------|-----------------------|-------------|-------------------------|
| 2012 | 12,757           | 10,616                     | 524,732               | 191,527,180 | 55.4                    |
| 2013 | 13,213           | 10,328                     | 528,174               | 192,783,510 | 53.6                    |
| 2014 | 14,259           | 10,796                     | 549,655               | 200,624,075 | 53.8                    |
| 2015 | 13,955           | 10,937                     | 539,600               | 196,954,000 | 55.5                    |
| 2016 | 12,485           | 11,620                     | 539,106               | 196,773,690 | 59.1                    |
| 2017 | 12,218           | 10,968                     | 418,187               | 152,638,255 | 71.9                    |
| 2018 | 11,235           | 10,280                     | 442,722               | 161,593,530 | 63.6                    |
| 2019 | 9,119            | 7,253                      | 412,205               | 150,454,825 | 60.6                    |
| 2020 | 8,173            | 5,533                      | 202,743               | 74,001,195  | 74.8                    |
| 2021 | 8,101            | 6,189                      | 241,598               | 88,183,215  | 70.2                    |
| 2022 | 7,678            | 6,153                      | 356,067               | 129,964,294 | 47.3                    |

\*All Collisions include both police-reported and self-reported collisions.

## FATAL AND SERIOUS INJURY COLLISIONS

Overall, for 2022, there were a total of 256 serious injury and fatal collisions, representing a 32% increase from 2019, a pre COVID-19 pandemic year. In 2022, the number of serious injury and fatal collisions represented 4.1% of the total number of police reported collisions, increasing from 3.6% in 2021. Figure 15 shows the trend of fatal and serious injury collisions on Seattle streets since 2012, obtained from police reports.

Figure 16 shows the trend of lives lost on Seattle streets since 2012. Figure 17 maps the locations of serious and fatal collisions for 2022. SDOT adopted Vision Zero and set a goal of eliminating such collisions.

These numbers exclude incidents on limited-access State Highways and Interstates, which are SR509, SR520, I-5 and I-90, respectively. Additional details on fatalities and tables of historical trends can be found in the Supporting Data section.

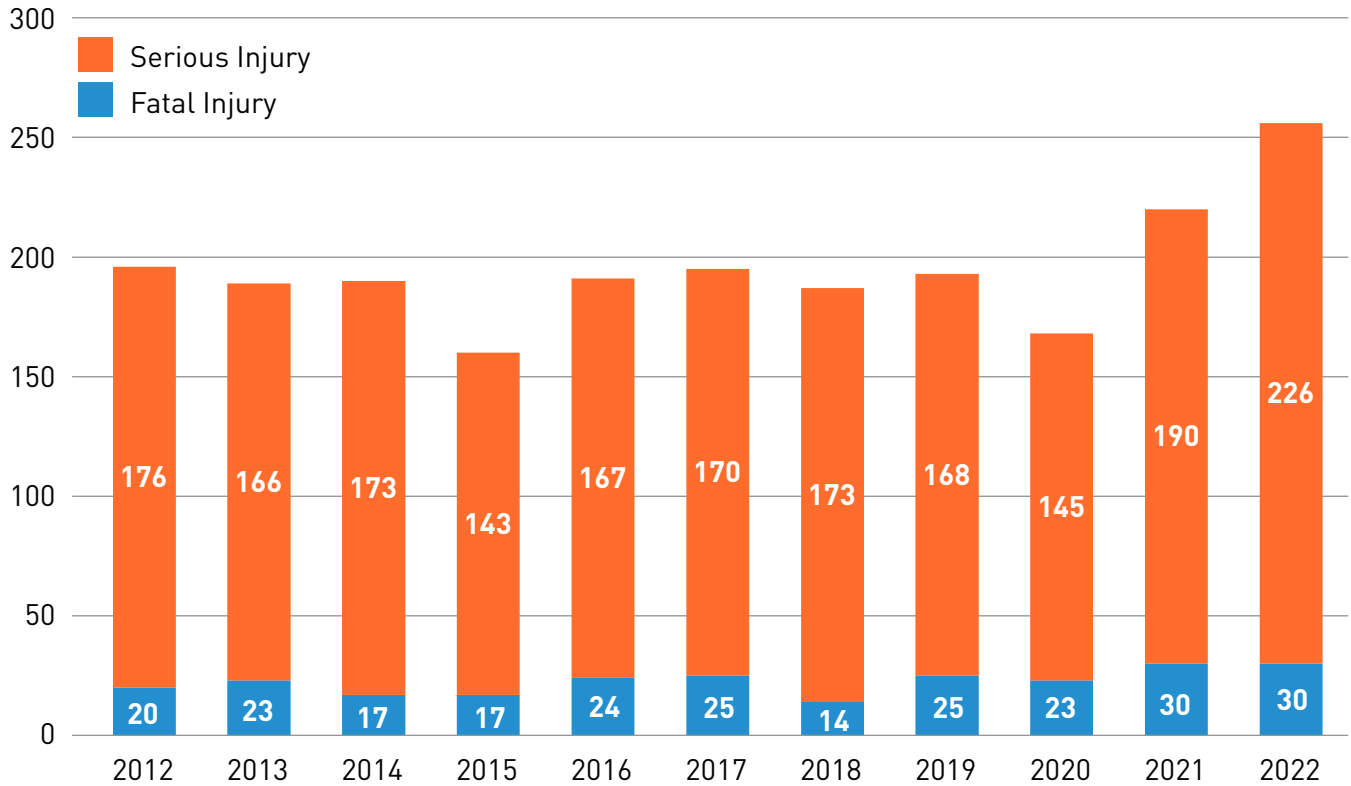
### Key Findings

- The number of fatal collisions in 2022 was the same as in 2021, however the number of serious injury collisions was 19% higher.
- The 2022 numbers of serious injury and fatal collisions continues to trend upwards.

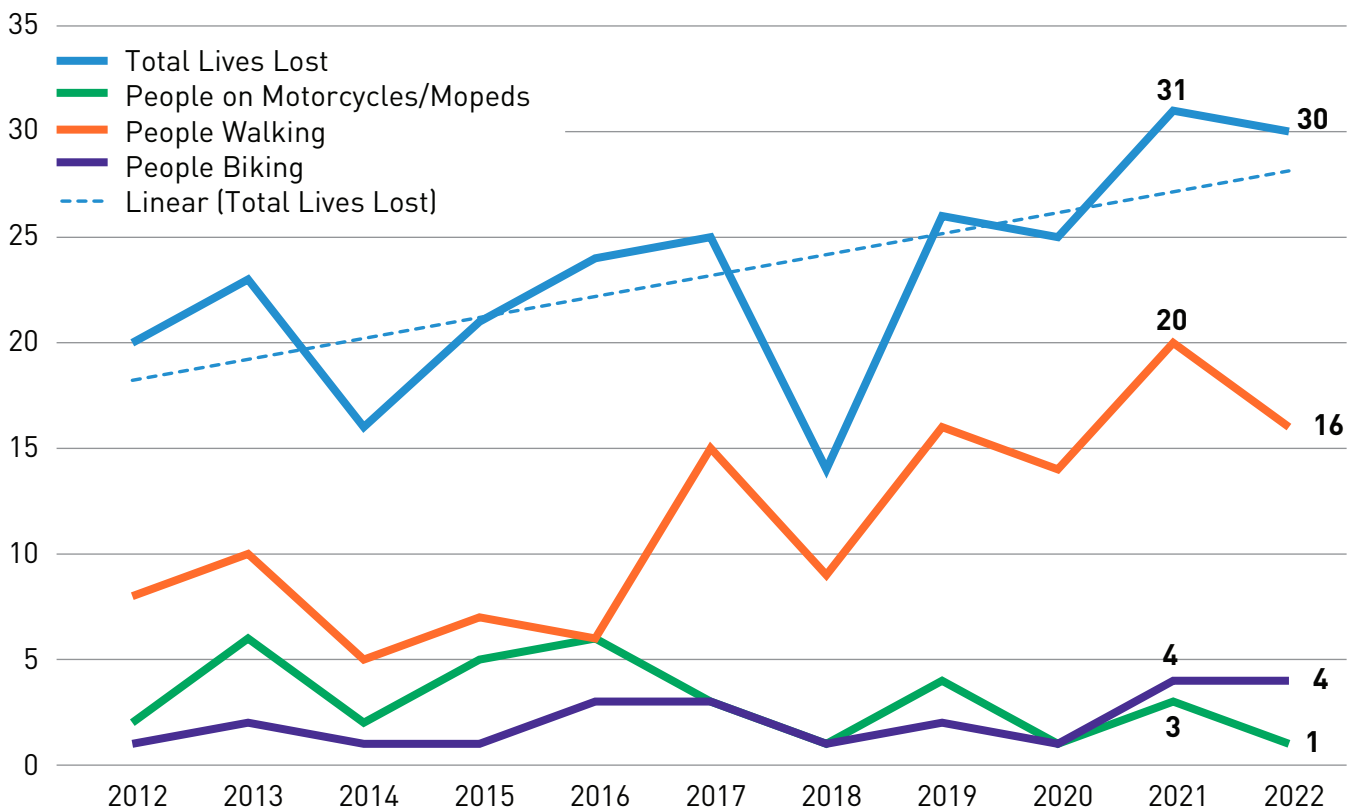




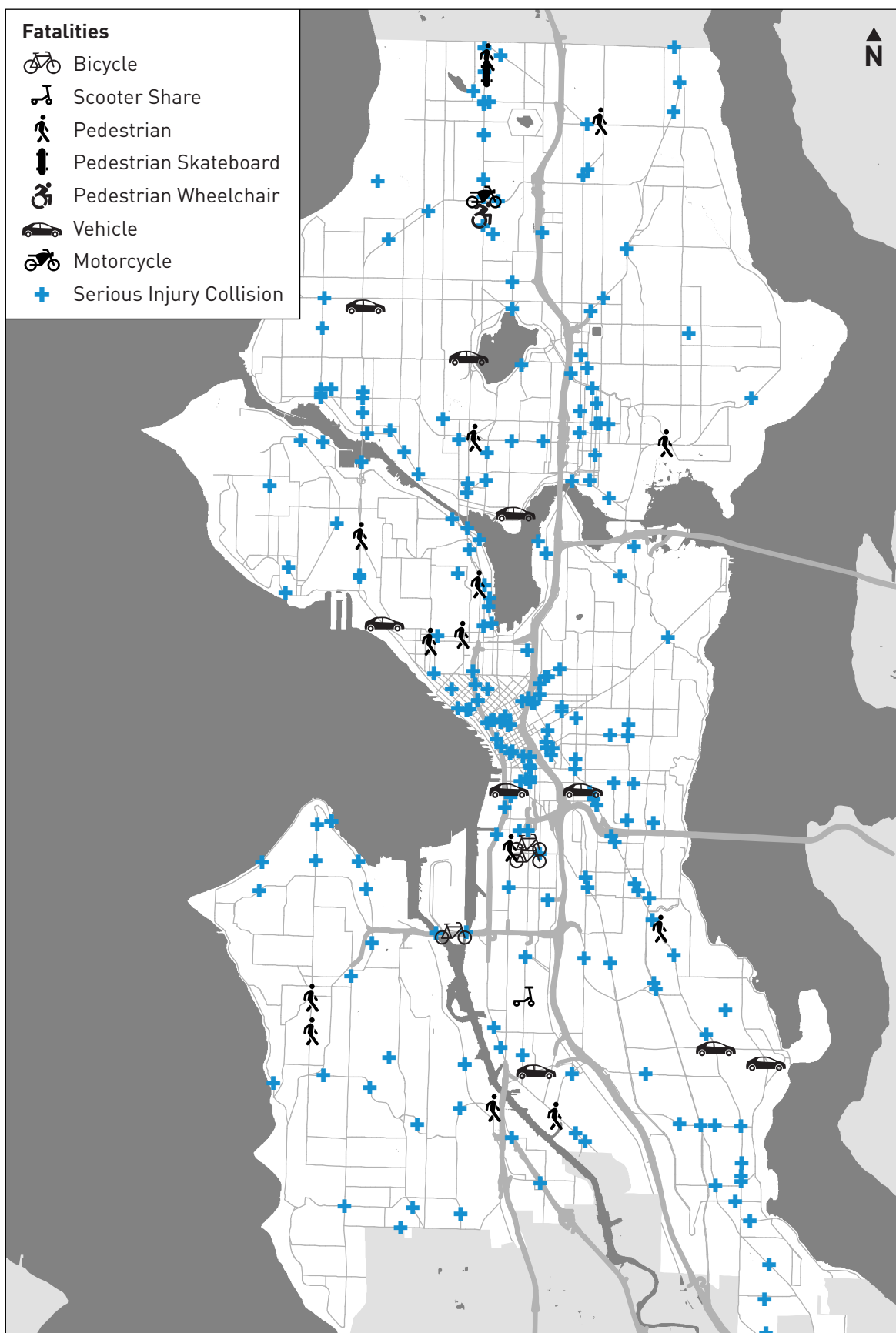
**FIGURE 15: FATAL/SERIOUS INJURY COLLISION TREND**



**FIGURE 16: LIVES LOST ON SEATTLE STREETS**



**FIGURE 17: MAP OF SERIOUS AND FATAL COLLISIONS IN SEATTLE FOR 2022**





## PEDESTRIAN-INVOLVED COLLISIONS

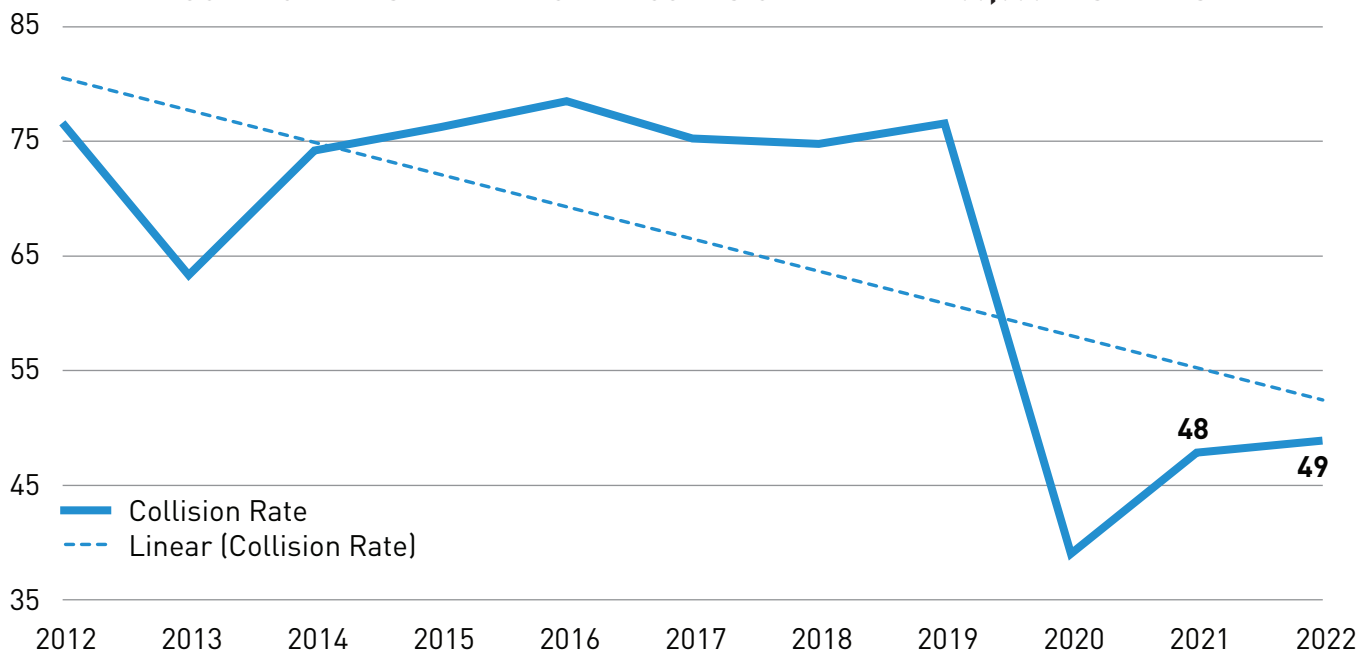
Along with Vision Zero, the 2009 Pedestrian Master Plan defined a decreasing trend in the rate of collisions involving pedestrians as a safety goal. SDOT continues to measure its pedestrian-involved vehicle collision rate as the number of pedestrian-involved collisions divided by the population of the City of Seattle.

The pedestrian-involved collisions per 100,000 residents decreased from 77 to 49 from 2019 to 2022, as shown in Figure 18. As shown in Figure 19, the total number of serious injury and fatal pedestrian collisions increased from 87 to 100 over the same time span. Table 6 tabulates all pedestrian-involved collisions by collision severity. Lastly, Figure 20 maps the locations of all pedestrian-involved collisions in Seattle for 2022.

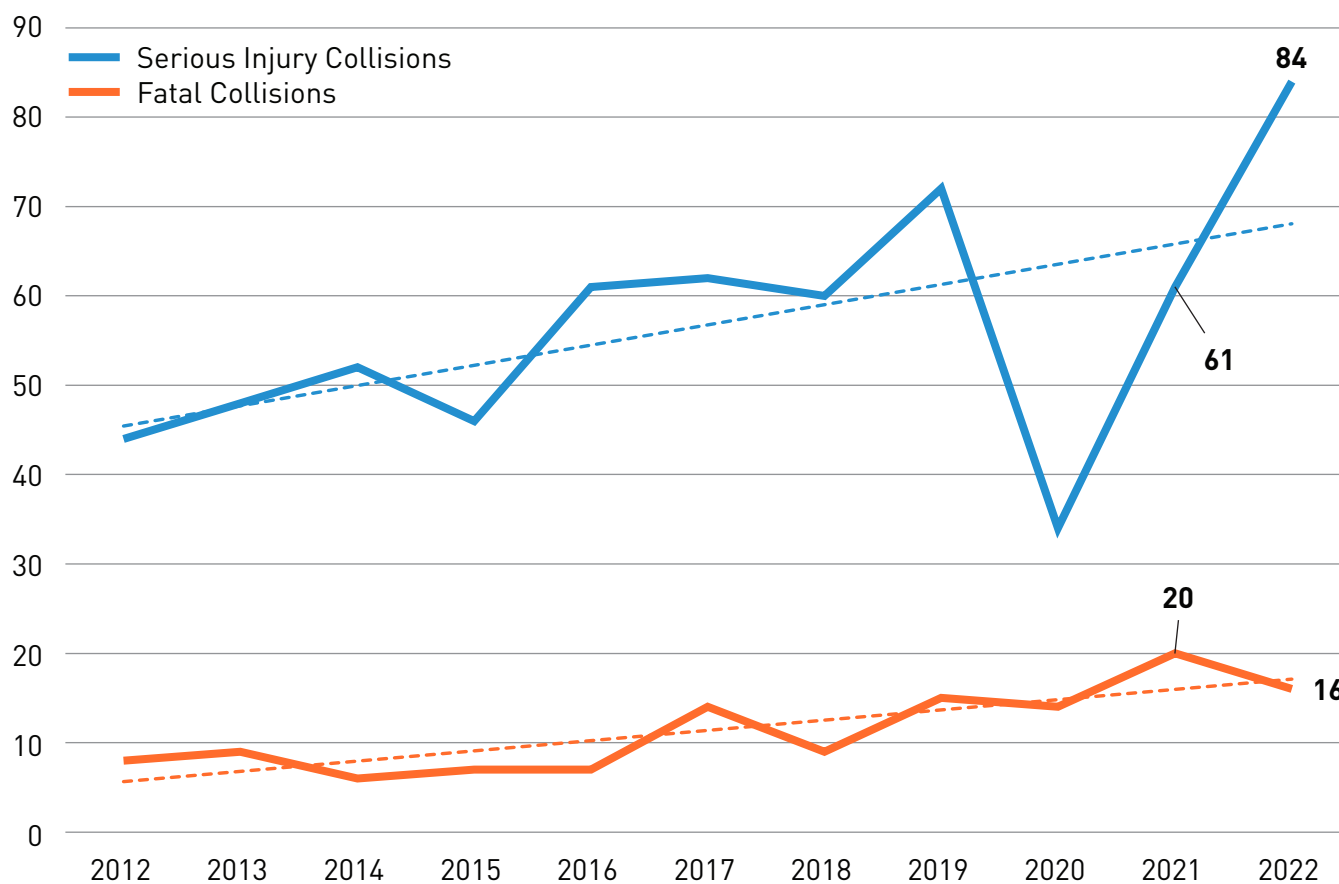
### Key Findings

Serious injury and fatal pedestrian collisions comprised 27% of total pedestrian collisions, compared to 23% in 2021.

**FIGURE 18: PEDESTRIAN-INVOLVED COLLISION RATE PER 100,000 RESIDENTS**



**FIGURE 19: SERIOUS AND FATAL COLLISIONS FOR PEDESTRIANS**

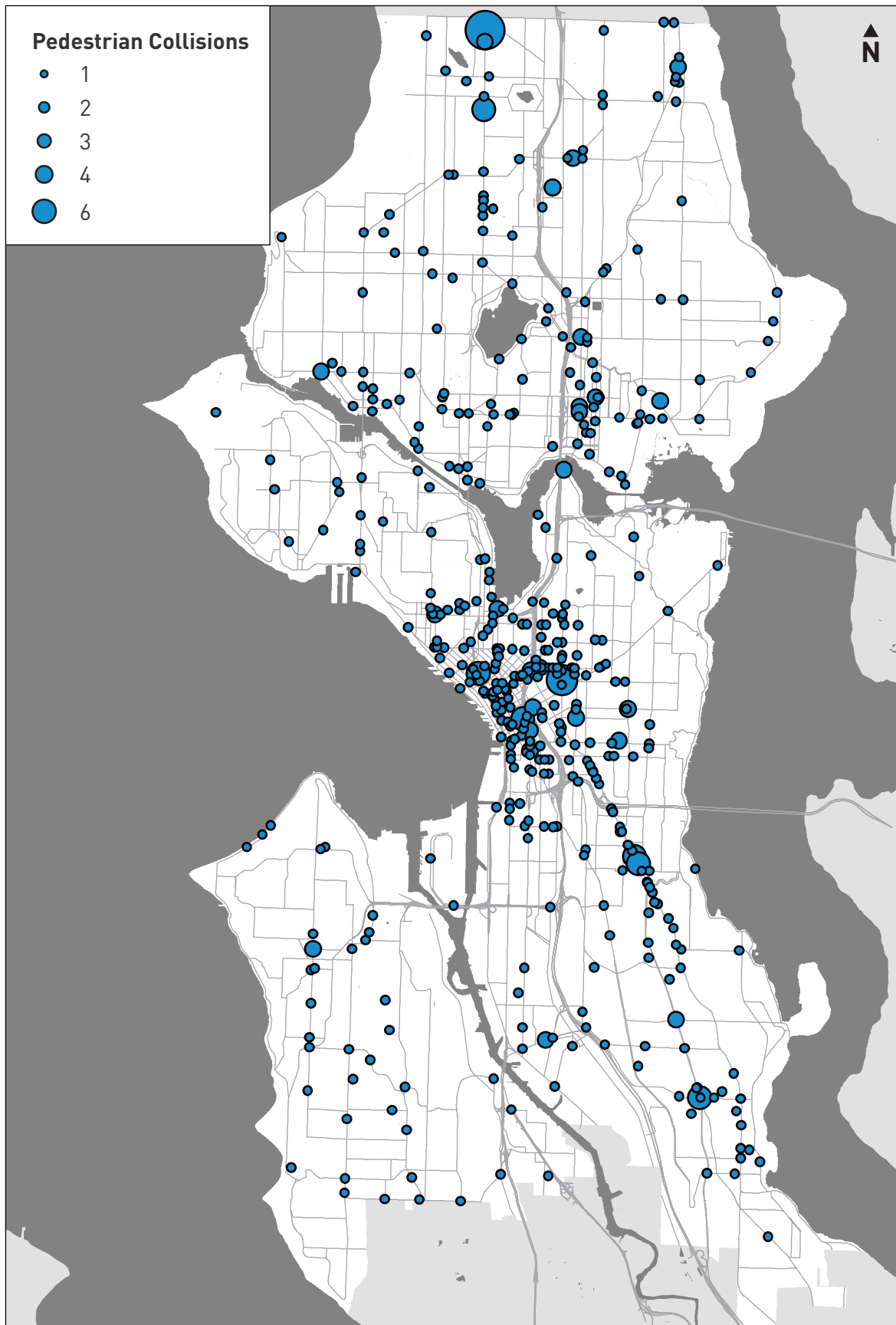


**TABLE 6: PEDESTRIAN-INVOLVED COLLISIONS**

| Year | Total Collisions | Possible/<br>Evident Injury | Serious Injury Collisions | Fatal Collisions | Fatal, Serious Injury Collisions |
|------|------------------|-----------------------------|---------------------------|------------------|----------------------------------|
| 2012 | 469              | 417                         | 44                        | 8                | 52                               |
| 2013 | 396              | 339                         | 48                        | 9                | 57                               |
| 2014 | 473              | 360                         | 52                        | 6                | 58                               |
| 2015 | 522              | 412                         | 46                        | 7                | 53                               |
| 2016 | 553              | 428                         | 61                        | 7                | 68                               |
| 2017 | 537              | 396                         | 62                        | 14               | 76                               |
| 2018 | 546              | 425                         | 60                        | 9                | 69                               |
| 2019 | 572              | 415                         | 72                        | 15               | 87                               |
| 2020 | 297              | 208                         | 34                        | 14               | 48                               |
| 2021 | 355              | 228                         | 61                        | 20               | 81                               |
| 2022 | 374              | 233                         | 84                        | 16               | 100                              |



FIGURE 20: MAP OF PEDESTRIAN-INVOLVED COLLISIONS IN SEATTLE FOR 2022



## BICYCLE COLLISION RATE

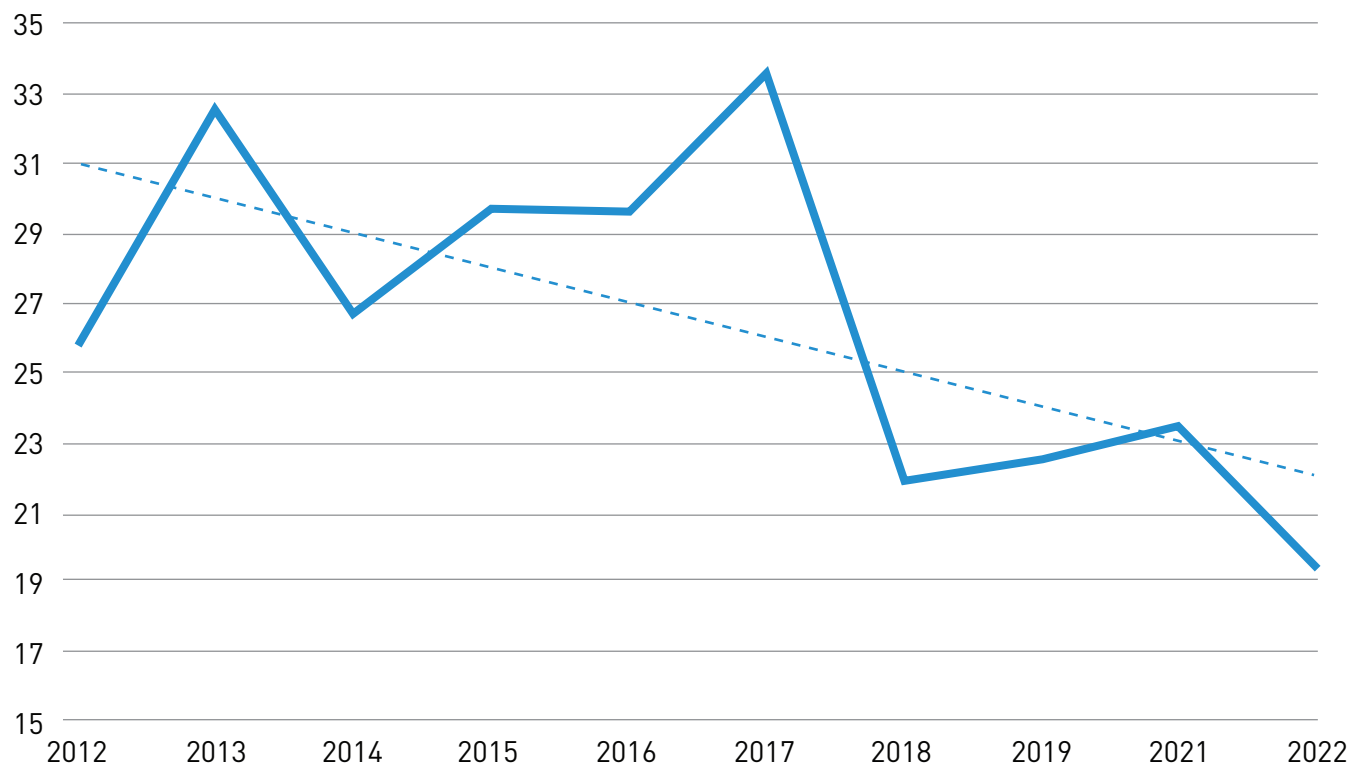
Figure 21 shows the bicycle collision rate as a factor of the number of bicycle commuters as reported by the U.S. Census Bureau's American Community Survey (ACS). Currently the bicycle collision rate shows a decreasing trend to 19 collisions per 1,000 commuters in 2022.

Alternatively, serious injury and fatal bicycle collisions trends are shown in Figure 22 and Table 7 below. The data indicates the number of serious injury bicycle collisions increased from 2021 to 2022, while the number of fatal bike collisions stayed the same. Finally, Figure 22 maps the location of all bicycle collisions in Seattle for 2022.

### Key Findings

Serious injury and fatal bicycle collisions comprised 13% of total bicycle collisions, compared to 9% in 2021.

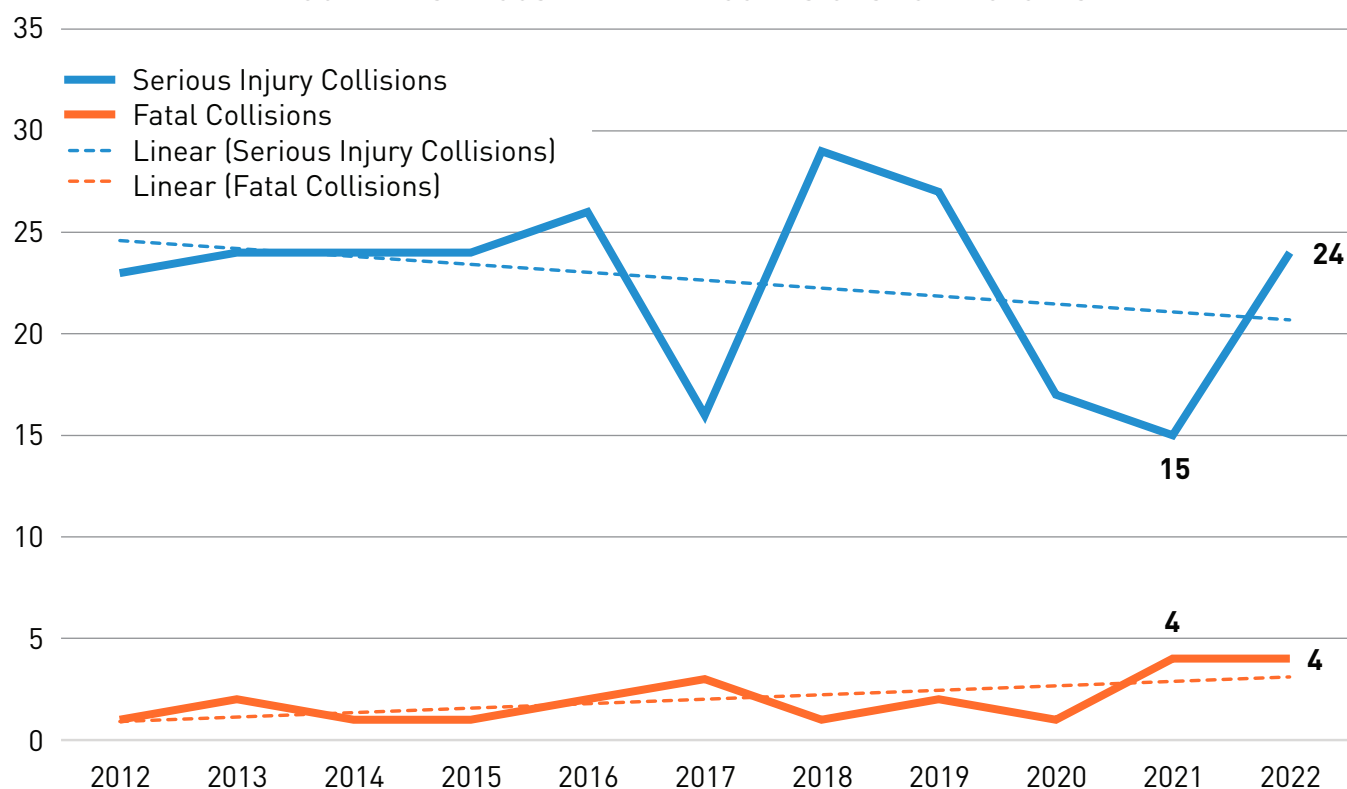
**FIGURE 21: BICYCLE COLLISION RATE PER BICYCLE 1,000 COMMUTERS\***



\*Bicycle Commuter Data from American Community Survey is not available for 2020



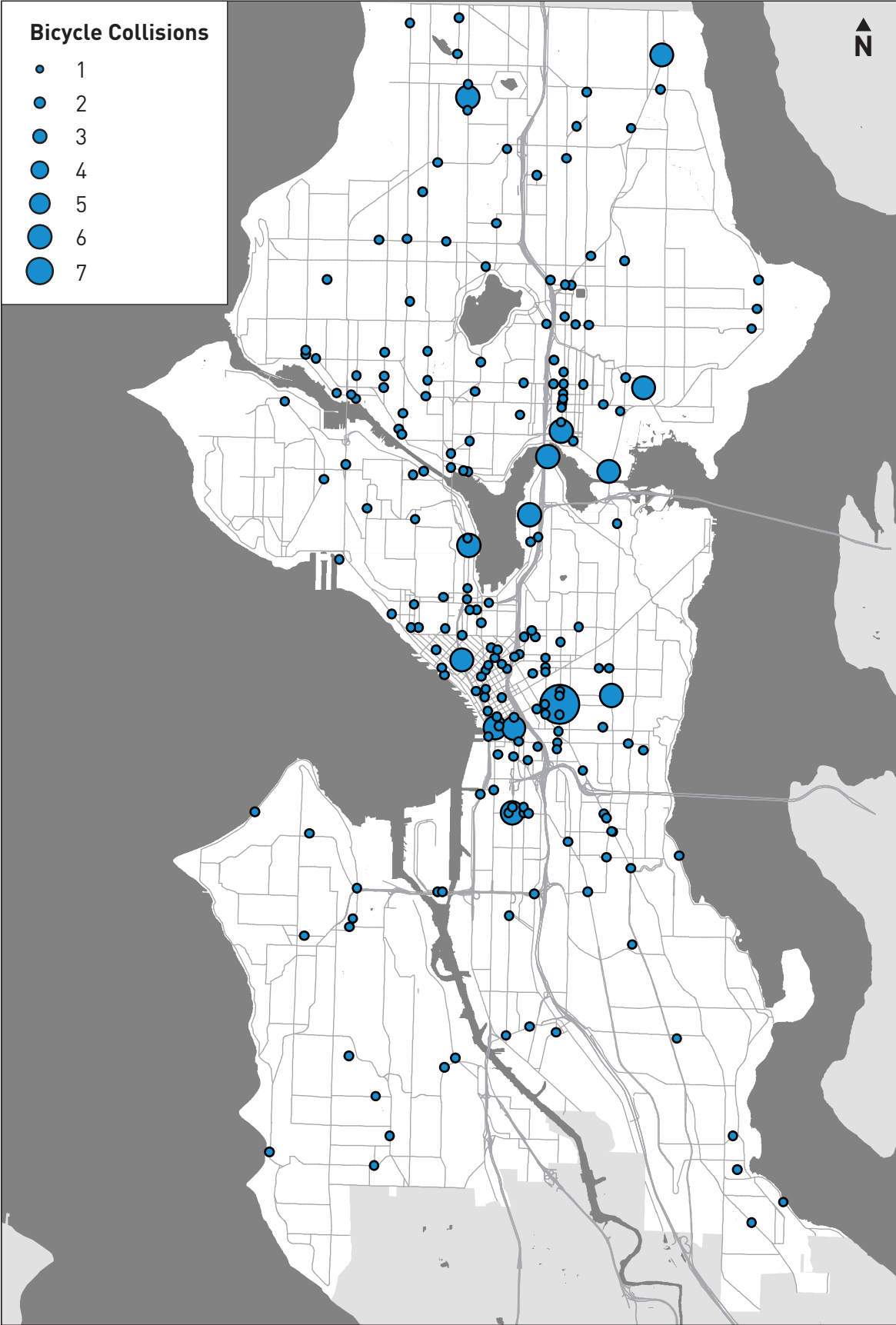
**FIGURE 22: SERIOUS AND FATAL COLLISIONS FOR BICYCLES**



**TABLE 7: BICYCLE-INVOLVED COLLISIONS**

| Year | Total Collisions | Possible/<br>Evident Injury | Serious Injury Collisions | Fatal Collisions | Fatal and Serious Injury Collisions |
|------|------------------|-----------------------------|---------------------------|------------------|-------------------------------------|
| 2012 | 387              | 358                         | 23                        | 1                | 24                                  |
| 2013 | 421              | 365                         | 24                        | 2                | 26                                  |
| 2014 | 380              | 316                         | 24                        | 1                | 25                                  |
| 2015 | 483              | 404                         | 24                        | 1                | 25                                  |
| 2016 | 440              | 352                         | 26                        | 2                | 28                                  |
| 2017 | 393              | 324                         | 16                        | 3                | 19                                  |
| 2018 | 370              | 284                         | 29                        | 1                | 30                                  |
| 2019 | 385              | 315                         | 27                        | 2                | 29                                  |
| 2020 | 177              | 139                         | 17                        | 1                | 18                                  |
| 2021 | 212              | 158                         | 15                        | 4                | 19                                  |
| 2022 | 220              | 164                         | 24                        | 4                | 28                                  |

FIGURE 23: MAP OF BICYCLE COLLISIONS IN SEATTLE FOR 2022





# Supporting Data

## VOLUME DATA

Table 8 shows the Control Count locations that are counted every month for 2022. The resulting counts are added together (all locations for all 12 months). The resulting sum is then divided by 12 to get an average sum, which is then divided by the sum of the volume counts for a particular month. This ratio of the average sum divided by the sum of the volume counts for a particular month produces the monthly control factor. This factor can then be applied to counts to correct for seasonal variation.

**TABLE 8: CONTROL COUNT LOCATIONS**

|  |
|--|
| 1. Denny Way, W/O 2nd Ave                |
| 2. East Green Lake Way N, NE/O N 57th St |
| 3. Fremont Br, S/O Point A               |
| 4. N 85th St, W/O Ashworth Ave N         |
| 5. Queen Anne Ave N, S/O Crockett St     |
| 6. University Br, SW/O Point A           |
| 7. Lake City Way NE, NE/O NE 95th St     |
| 8. M L King Jr. Way S, N/O S Andover St  |
| 9. NW Market St, W/O 8th Ave NW          |
| 10. Rainier Ave S, S/O S Othello St      |
| 11. S Lander St, W/O 6th Ave S           |
| 12. Alki Ave SW, W/O Harbor Ave SW       |
| 13. 3rd Ave SE/O Union St                |
| 14. Alaskan Way SE/O Blanchard St        |
| 15. Stewart St, NE/O 4th Ave             |
| 16. University St, SW/O 4th Ave          |
| 17. SW Spokane Bridge, W/O SW Spokane St |

**TABLE 9: 2022 BRIDGE COUNT LOCATIONS**

|  |
|--|
| 1. Aurora Bridge                                       |
| 2. Ballard Bridge                                      |
| 3. Fremont Bridge                                      |
| 4. Montlake Bridge                                     |
| 5. Spokane Street Corridor<br>(Duwamish West Waterway) |
| 6. SW Spokane Bridge (Swing)                           |
| 7. University Bridge                                   |
| 8. 1 Ave S Bridge                                      |
| 9. 16th Ave S Bridge                                   |
| 10. West Seattle High-Rise Bridge                      |
| 11. I-90 Bridge  |
| 12. SR520 Bridge                                       |
| 13. I-5 Bridge   |

**TABLE 10: AVERAGE DAILY TRAFFIC VOLUMES (ADT)**

| Year | ADT       |
|------|-----------|
| 2012 | 976,600   |
| 2013 | 986,200   |
| 2014 | 1,009,800 |
| 2015 | 972,100   |
| 2016 | 1,019,000 |
| 2017 | 1,001,000 |
| 2018 | 1,037,000 |
| 2019 | 998,100   |
| 2020 | 635,600   |
| 2021 | 716,600   |
| 2022 | 854,000   |

**TABLE 11: 2022 MONTHLY EXPANSION FACTOR**

|               | JAN     | FEB     | MAR     | APR     | MAY     | JUN     |
|---------------|---------|---------|---------|---------|---------|---------|
| <b>Count</b>  | 256,100 | 252,800 | 286,500 | 264,300 | 276,500 | 268,900 |
| <b>Factor</b> | 1.039   | 1.053   | 0.929   | 1.007   | 0.963   | 0.99    |
|               | JUL     | AUG     | SEP     | OCT     | NOV     | DEC     |
| <b>Count</b>  | 273,100 | 274,900 | 258,300 | 258,600 | 263,900 | 260,700 |
| <b>Factor</b> | 0.975   | 0.968   | 1.031   | 1.03    | 1.009   | 1.021   |



**TABLE 12: 2022 TOP ARTERIAL TRAFFIC COUNTS**

| Location                         | Average Weekday Daily Traffic (AWDT) |
|----------------------------------|--------------------------------------|
| 1st Ave S Bridge                 | 85,000                               |
| West Seattle Bridge              | 59,200                               |
| Aurora Bridge                    | 54,000                               |
| Montlake Bridge                  | 54,000                               |
| East Marginal Way, N/O 1st Ave S | 53,600                               |
| S Spokane St, E/O 1st Ave S      | 45,700                               |
| Mercer St, E/O Westlake Ave N    | 44,100                               |
| Ballar Bridge                    | 36,600                               |
| Elliott Ave W, NW/O W Mercer Pl  | 32,400                               |
| Denny Way, W/O 2nd Ave           | 29,400                               |

**TABLE 13: SEATTLE POPULATION**

| Year | Seattle Population |
|------|--------------------|
| 2012 | 635,500            |
| 2013 | 653,700            |
| 2014 | 669,200            |
| 2015 | 684,500            |
| 2016 | 704,400            |
| 2017 | 713,700            |
| 2018 | 730,400            |
| 2019 | 747,300            |
| 2020 | 737,000            |
| 2021 | 742,400            |
| 2022 | 762,500            |

**TABLE 14: REGIONAL EMPLOYMENT**

| Year | Seattle/Tacoma/Bellevue Employment |
|------|------------------------------------|
| 2012 | 1,760,000                          |
| 2013 | 1,798,000                          |
| 2014 | 1,841,000                          |
| 2015 | 1,886,000                          |
| 2016 | 1,945,000                          |
| 2017 | 1,995,000                          |
| 2018 | 2,044,000                          |
| 2019 | 2,100,000                          |
| 2020 | 2,001,000                          |
| 2021 | 2,060,000                          |
| 2022 | 2,147,000                          |

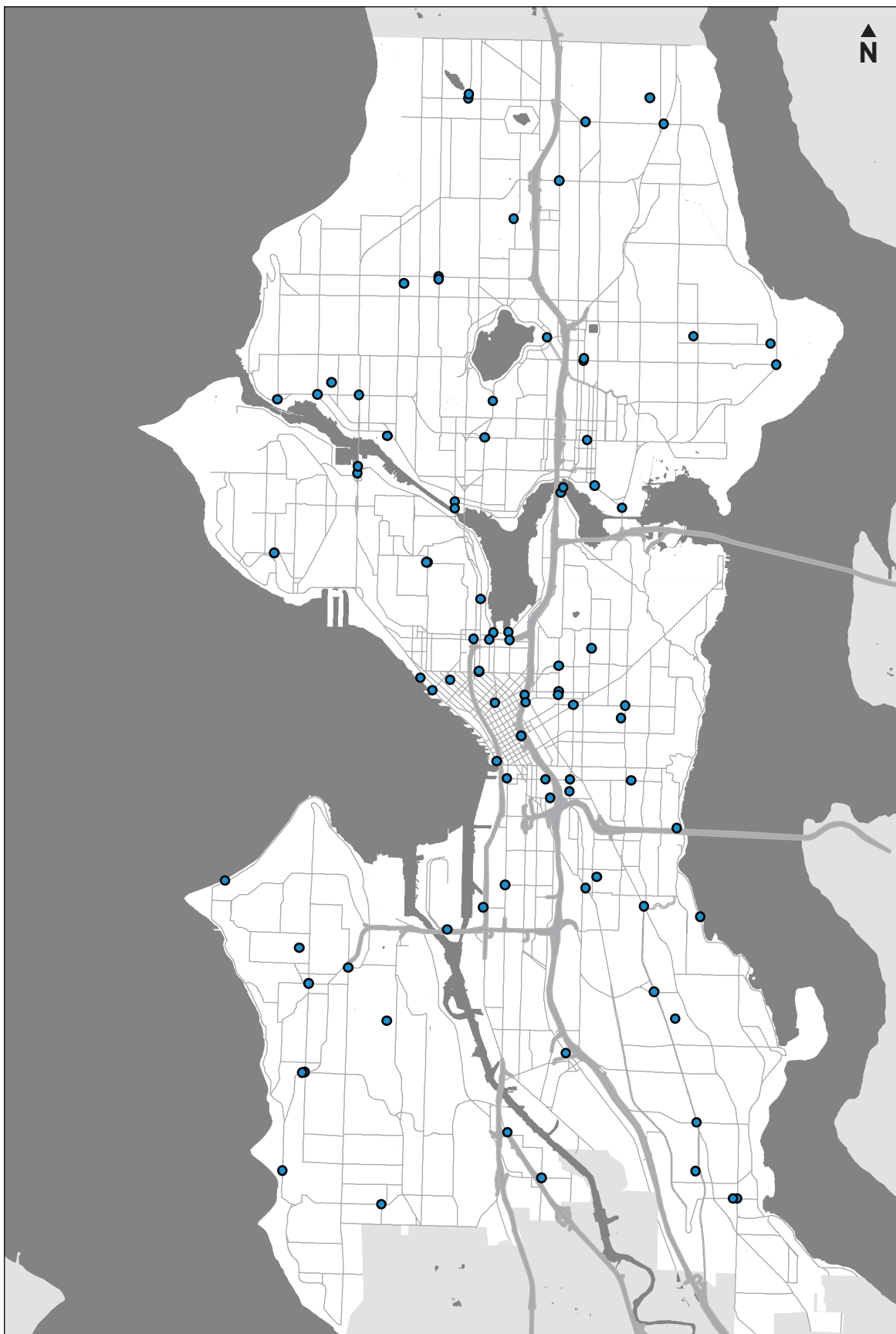
**TABLE 15: REGIONAL ANNUAL TRANSIT RIDERSHIP**

| Year | King County Metro   |                  |                         |                | Sound Transit Bus & Rail Boardings | Total Transit Ridership |
|------|---------------------|------------------|-------------------------|----------------|------------------------------------|-------------------------|
|      | Metro Bus Boardings | Access Boardings | Taxi Overflow Boardings | CAT* Boardings |                                    |                         |
| 2012 | 115,400,000         | 1,165,000        | 31,200                  | 312,800        | 28,030,000                         | <b>144,900,000</b>      |
| 2013 | 118,600,000         | 1,158,000        | 31,300                  | 316,700        | 30,380,000                         | <b>150,500,000</b>      |
| 2014 | 121,000,000         | 1,079,000        | 27,500                  | 343,000        | 33,000,000                         | <b>155,400,000</b>      |
| 2015 | 121,800,000         | 980,100          | 24,100                  | 362,500        | 34,860,000                         | <b>158,000,000</b>      |
| 2016 | 121,500,000         | 961,500          | 20,200                  | 347,600        | 42,740,000                         | <b>165,600,000</b>      |
| 2017 | 122,200,000         | 958,400          | 17,200                  | 340,300        | 47,030,000                         | <b>170,500,000</b>      |
| 2018 | 122,400,000         | 1,027,000        | 16,000                  | 330,100        | 48,250,000                         | <b>172,000,000</b>      |
| 2019 | 123,500,000         | 887,900          | 177,800                 | 346,500        | 47,840,000                         | <b>172,800,000</b>      |
| 2020 | 58,390,000          | 455,400          | 86,500                  | 258,800        | 17,630,000                         | <b>76,820,000</b>       |
| 2021 | 51,340,000          | 468,100          | 88,900                  | 270,000        | 17,760,000                         | <b>69,930,000</b>       |
| 2022 | 64,680,000          | 552,200          | 110,800                 | 229,500        | 31,880,000                         | <b>97,450,000</b>       |

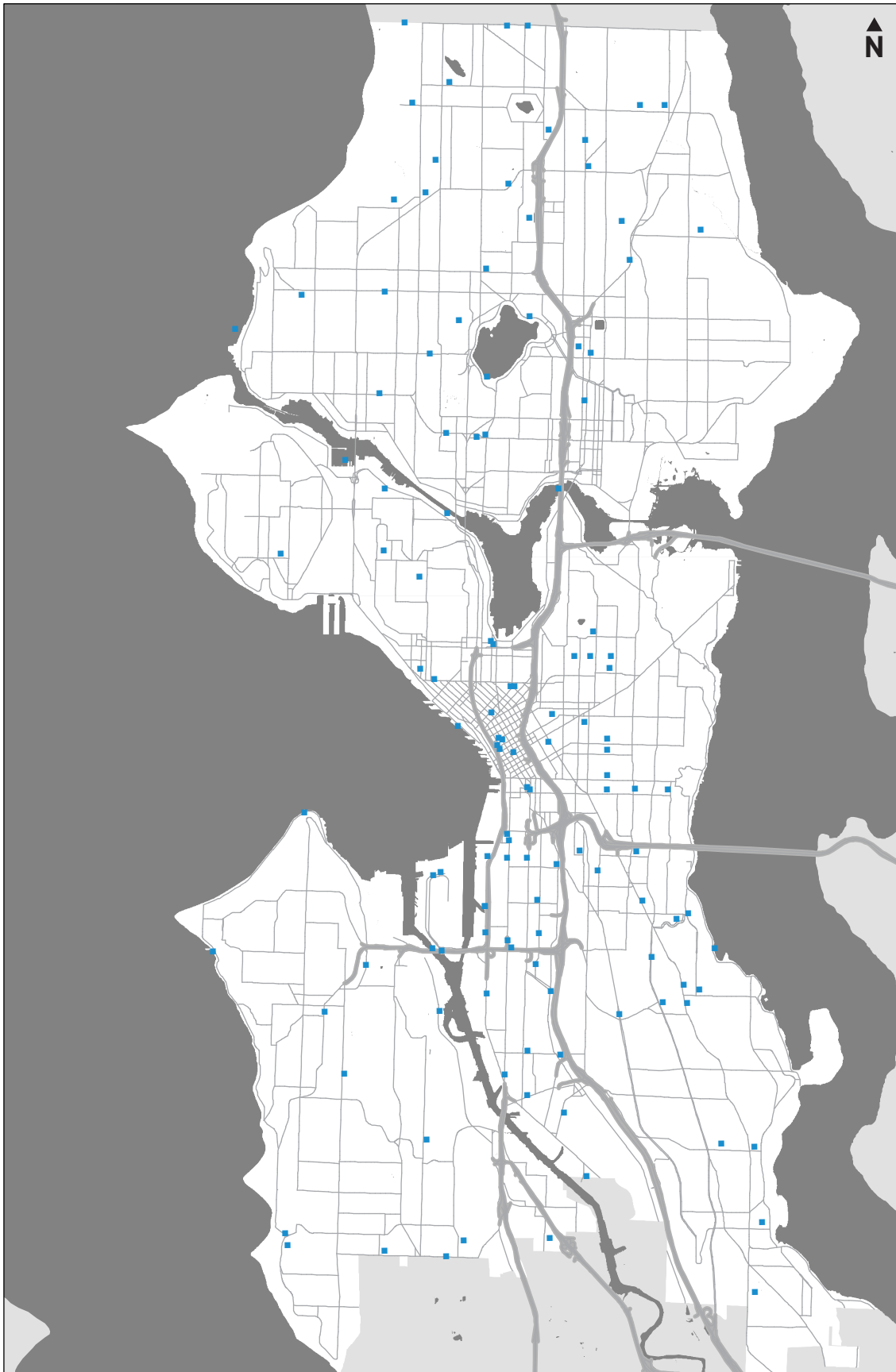
\*Community Access Transit



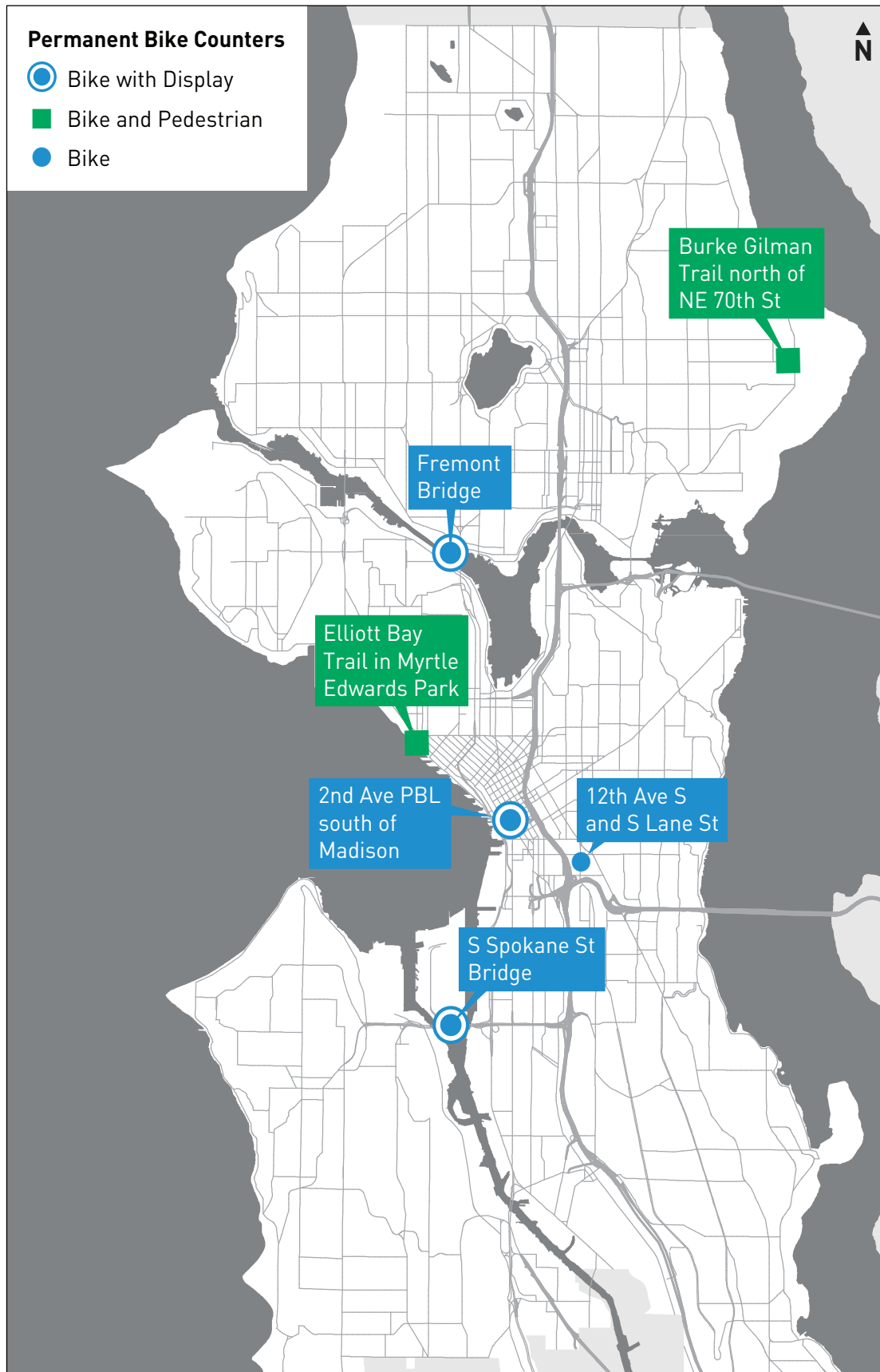
**FIGURE 24: SDOT BIKE AND PEDESTRIAN SPOT COUNT LOCATIONS**



**FIGURE 25: SDOT 2022 TRAFFIC FLOW MAP VOLUME COUNT LOCATIONS**



**FIGURE 26: PERMANENT BICYCLE AND PEDESTRIAN COUNT LOCATIONS**





**TABLE 16: FREMONT BRIDGE BICYCLE VOLUMES**

| Month     | 2013    | 2014    | 2015    | 2016    | 2017    |
|-----------|---------|---------|---------|---------|---------|
| January   | 44,900  | 59,900  | 60,600  | 51,700  | 49,800  |
| February  | 50,000  | 47,000  | 58,700  | 60,400  | 42,000  |
| March     | 66,100  | 63,500  | 71,100  | 69,800  | 58,700  |
| April     | 72,000  | 86,900  | 83,700  | 93,600  | 68,400  |
| May       | 108,600 | 118,600 | 107,800 | 114,200 | 109,100 |
| June      | 99,300  | 110,900 | 113,700 | 107,600 | 107,800 |
| July      | 118,000 | 120,700 | 112,800 | 105,700 | 118,900 |
| August    | 104,500 | 112,500 | 103,400 | 112,400 | 120,200 |
| September | 80,700  | 97,600  | 91,100  | 94,200  | 96,500  |
| October   | 81,400  | 83,200  | 83,000  | 69,900  | 88,100  |
| November  | 59,300  | 57,000  | 56,700  | 64,100  | 57,700  |
| December  | 43,600  | 48,500  | 44,000  | 38,900  | 45,900  |
| Month     | 2018    | 2019    | 2020    | 2021    | 2022    |
| January   | 58,600  | 72,900  | 59,000  | 35,600  | 34,300  |
| February  | 50,700  | 36,100  | 72,500  | 29,500  | 38,600  |
| March     | 77,300  | 85,500  | 57,900  | 50,200  | 56,400  |
| April     | 79,900  | 87,900  | 65,400  | 69,300  | 63,200  |
| May       | 129,800 | 129,100 | 72,700  | 73,000  | 73,500  |
| June      | 113,100 | 132,500 | 75,800  | 77,500  | 85,300  |
| July      | 128,000 | 137,700 | 88,200  | 94,000  | 99,900  |
| August    | 111,800 | 142,400 | 88,400  | 86,400  | 104,100 |
| September | 96,200  | 112,200 | 58,100  | 74,400  | 91,000  |
| October   | 91,000  | 104,500 | 58,800  | 58,200  | 74,500  |
| November  | 68,400  | 85,000  | 39,900  | 40,100  | 49,900  |
| December  | 46,900  | 61,400  | 36,100  | 27,500  | 27,000  |

**TABLE 17: 2022 BICYCLE COUNTS**

| Location                                   | 2022 AADT |
|--|-----------|
| Fremont Bridge Totem                       | 2,200     |
| Elliott Bay Trail in Myrtle Edwards Park   | 1,000     |
| Montlake Br S/O NE Pacific St (E Sidewalk) | 900       |
| BGT N/O NE 70th St                         | 850       |
| Spokane St Bridge                          | 720       |
| 2nd Avenue Display                         | 590       |
| Gilman Ave W NW/O W Bertona St             | 520       |
| Mercer St PBL E/O Taylor Ave N             | 470       |
| Lake Washington Blvd S N/O S Horton St NR  | 450       |
| University Br N/O Point A (SB Bike Path)   | 410       |
| University Br N/O Point A (NB Bike Path)   | 360       |
| Broadway N/O James St                      | 320       |
| Dexter Ave N N/O Denny Way                 | 280       |
| Fremont Ave N S/O N 109th St               | 250       |
| Dexter Ave N N/O Howe St (NB)              | 200       |
| Montlake Br S/O NE Pacific St (W Sidewalk) | 200       |
| Dexter Ave N N/O Howe St (SB)              | 170       |
| 17th Ave NW N/O NW 53rd St                 | 160       |
| 12th Ave NE N/O NE 50th St                 | 140       |
| 17th Ave NW S/O NW 65th St                 | 120       |
| Ballard BR (W Sidewalk)                    | 120       |
| NE 40th St E/O Brooklyn Ave NE             | 110       |
| Roosevelt Way NE S/O NE 45th St            | 110       |
| 27th Ave NE N/O NE 130th St                | 100       |
| Ballard BR (E Sidewalk)                    | 90        |
| E Columbia St W/O 23rd Ave                 | 90        |
| 18th Ave S N/O S Bayview St                | 80        |
| NW 58th St & 22nd Ave NW                   | 80        |
| W Boston St E/O 1st Ave W                  | 80        |
| 22nd Ave N/O E Columbia St                 | 70        |
| 22nd Ave S/O E Union St                    | 70        |
| 25th Ave N/O E Yesler Way                  | 70        |
| 25th Ave S/O S Jackson St                  | 70        |
| E Republican St W/O Malden Ave E           | 70        |
| Lafayette Ave S N/O S Hinds St             | 70        |
| NW 83rd St W/O 8th Ave NW                  | 70        |
| 17th Ave NW N/O NW 85th St                 | 60        |
| 38th Ave S N/O S Alaska St                 | 60        |

| Location                           | 2022 AADT |
|------------------------------------|-----------|
| E Columbia St E/O 12th Ave         | 60        |
| E Republican St E/O 17th Ave E     | 60        |
| N 92nd St E/O Aurora Ave N         | 60        |
| 25th Ave N/O E Cherry St           | 50        |
| Courtland Pl S S/O S Andover St    | 50        |
| E Republican St W/O 16th Ave E     | 50        |
| 12th Ave NE S/O NE 50th St         | 40        |
| 46th Ave S S/O S Holden St         | 40        |
| Chief Sealth TRL S/O S Brighton St | 40        |
| E Republican St E/O 16th Ave E     | 40        |
| NE 68th St E/O 27th Ave NE         | 40        |
| NE 68th St E/O Ravenna Ave NE      | 40        |
| NE 70th St W/O 15th Ave NE         | 40        |
| NE 143rd St E/O 32nd Ave NE        | 40        |
| Renton Ave S S/O Bennett St        | 40        |
| SW Graham St E/O 42nd Ave S        | 40        |
| 13th Ave E N/O E Republican St     | 30        |
| 27th Ave NE N/O NE 133rd St        | 30        |
| 34th Ave S S/O Mt Baker Blvd EB    | 30        |
| 34th Ave SW N/O SW Morgan St       | 30        |
| E Republican St E/O 20th Ave E     | 30        |
| N 43rd St W/O Wallingford Ave N    | 30        |
| Sodo Trail N/O S Forest St         | 30        |
| 17th Ave SW N/O SW Henderson St    | 20        |
| 39th Ave S S/O S Mead St           | 20        |
| 46th Ave S S/O S Thistle St        | 20        |
| E Roy St E/O 11th Ave E            | 20        |
| Hiawatha Pl S SE/O S Charles St    | 20        |
| NE 44th St W/O Latona Ave NE       | 20        |
| Renton Ave S S/O S Findlay St      | 20        |
| S Willow St E/O 42nd Ave S         | 20        |
| 37th Ave NE S/O NE 135th St        | 10        |
| High Point Dr SW N/O SW Morgan St  | 10        |
| NE 68th St E/O 17th Ave NE         | 10        |
| S Director St E/O 46th Ave S       | 0         |



## HISTORICAL COLLISION DATA

**TABLE 18: HISTORICAL COLLISION DATA**

| Year | Statewide Collisions | Seattle Collisions | Police Reported | Citizen Reported |
|------|----------------------|--------------------|-----------------|------------------|
| 2012 | 99,609               | 12,757             | 10,616          | 2,116            |
| 2013 | 99,766               | 13,213             | 10,328          | 2,429            |
| 2014 | 107,673              | 14,259             | 10,796          | 2,417            |
| 2015 | 117,062              | 13,955             | 10,937          | 3,322            |
| 2016 | 122,378              | 12,485             | 11,620          | 2,335            |
| 2017 | 121,152              | 12,218             | 10,968          | 1,517            |
| 2018 | 116,078              | 11,235             | 10,280          | 1,938            |
| 2019 | 111,709              | 7,253              | 9,119           | 2,116            |
| 2020 | 86,345               | 8,173              | 5,533           | 1,720            |
| 2021 | 103,309              | 8,101              | 6,189           | 1,984            |
| 2022 | 103,235              | 7,678              | 6,153           | 1,525            |

**TABLE 19: FATAL/SERIOUS COLLISIONS**

| Year | Fatal | Serious Injury | Total Serious/Fatal |
|------|-------|----------------|---------------------|
| 2012 | 20    | 176            | 196                 |
| 2013 | 23    | 166            | 189                 |
| 2014 | 17    | 173            | 190                 |
| 2015 | 17    | 143            | 160                 |
| 2016 | 24    | 167            | 191                 |
| 2017 | 25    | 170            | 195                 |
| 2018 | 14    | 173            | 187                 |
| 2019 | 25    | 168            | 193                 |
| 2020 | 23    | 145            | 168                 |
| 2021 | 30    | 190            | 220                 |
| 2022 | 30    | 226            | 256                 |

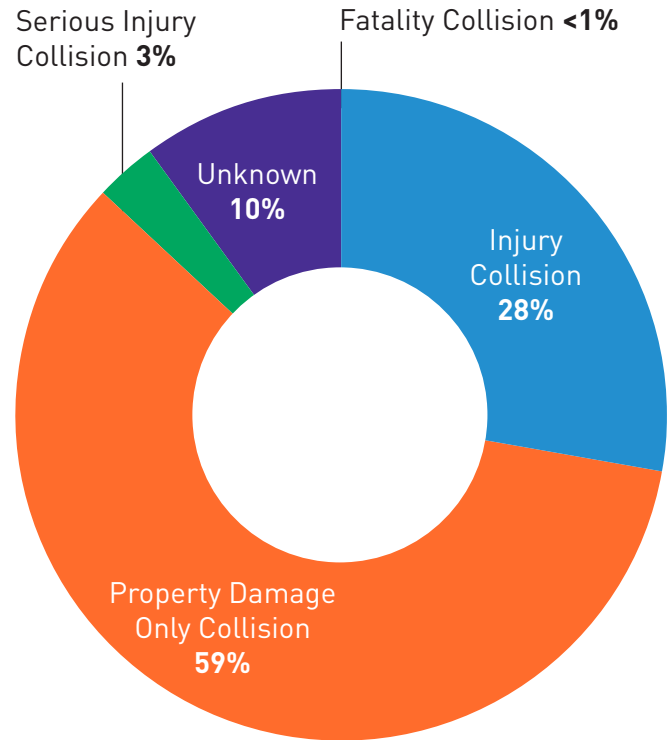
## 2022 COLLISION DATA

All of the collision data contained in this section is representative of Washington State Police data provided to SDOT for collisions that occurred within Seattle jurisdiction, inclusive of self-reported collisions.

**TABLE 20: 2022 TOTAL COLLISIONS BY STATED COLLISION TYPE**

|   |       |
|---|-------|
| All Other Multi Vehicle   | 1     |
| All other non-collision   | 2     |
| Breakage of any part of the vehicle resulting in injury or in further property damage | 1     |
| Domestic animal other (cat, dog, etc)   | 2     |
| Entering at angle   | 1,296 |
| Fixed object  | 687   |
| From Opposite Direction   | 2,287 |
| Jackknife Trailer   | 1     |
| Not stated  | 1     |
| One car entering parked position  | 23    |
| One car leaving parked position   | 81    |
| One parked--one moving  | 1,026 |
| Other object  | 17    |
| Bicycle   | 243   |
| Person fell, jumped or was pushed from vehicle  | 1     |
| Railway Vehicle Strikes Vehicle   | 2     |
| Same Direction  | 56    |
| Strikes or Was Struck by Object from the Load of Another Vehicle                      | 3     |
| Pedestrian  | 343   |
| Vehicle overturned  | 14    |
| Vehicle Strikes Railway Vehicle   | 8     |
| Blank   | 1583  |

**FIGURE 27: 2022 COLLISION SEVERITY**

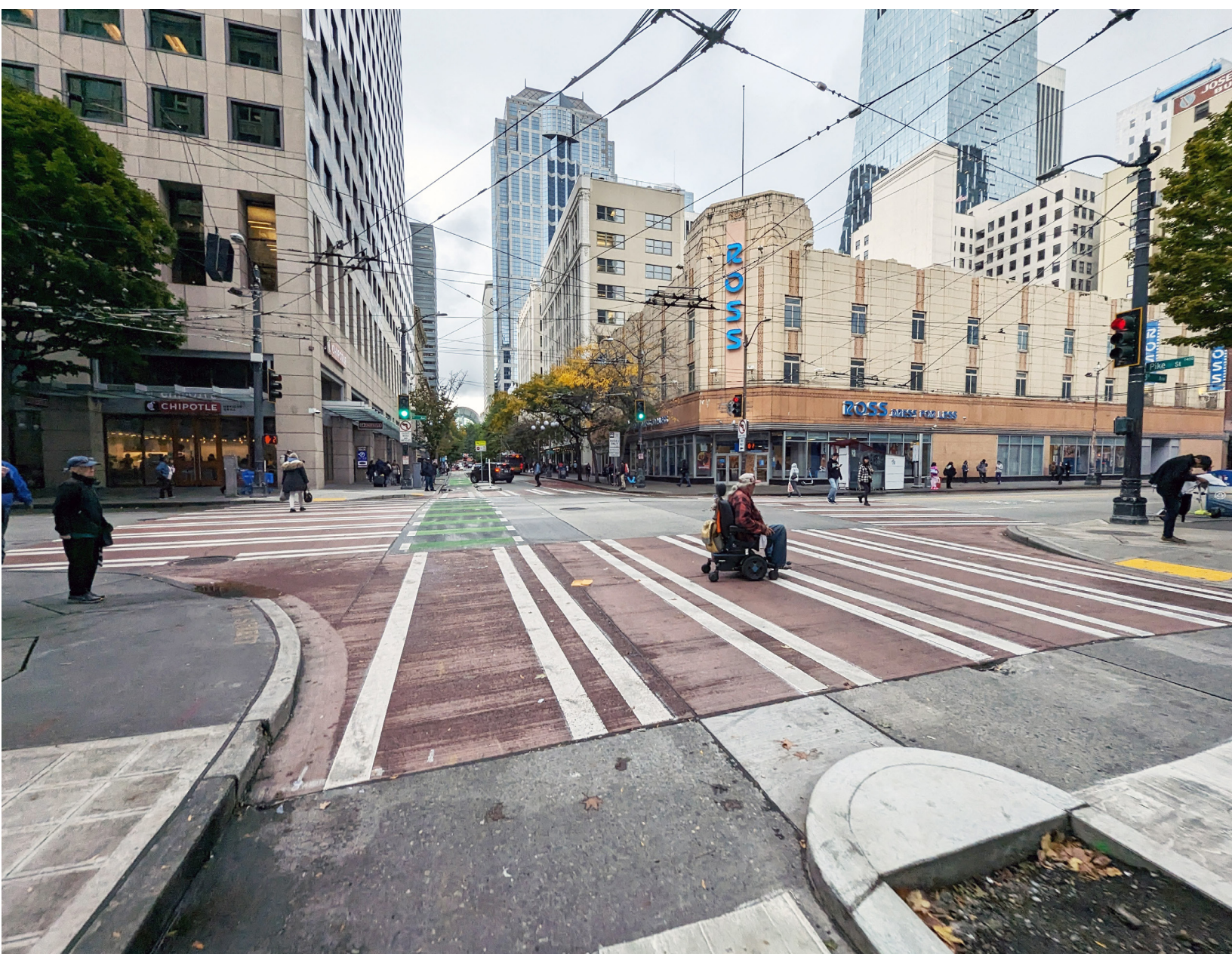


**TABLE 21: CONTRIBUTING CIRCUMSTANCES FOR ALL PEOPLE INVOLVED IN 2022 COLLISIONS**

| Circumstance  | Fatality | Serious Injury | Injury | No Injury | Unknown | Total |
|---|----------|----------------|--------|-----------|---------|-------|
| Apparently Asleep   |          | 1              | 28     | 35        |         | 64    |
| Apparently Emotional (Depressed, Angry, Disturbed, etc.)                  |          |                | 1      | 5         |         | 6     |
| Apparently Ill  |          | 4              | 8      | 10        |         | 22    |
| Did not Grant Right of Way to Non-Motorist                                |          | 21             | 108    | 15        |         | 144   |
| Did not Grant Right of Way to Vehicle                                     | 2        | 22             | 306    | 499       |         | 829   |
| Disregard Flagger/Officer   |          |                | 2      | 3         |         | 5     |
| Disregard Traffic Sign or Signal  | 1        | 11             | 133    | 135       |         | 280   |
| Distracted by Adjusting Vehicle Controls                                  |          | 1              | 11     | 9         |         | 21    |
| Distracted by Other Occupant  |          | 2              | 8      | 8         |         | 18    |
| Distractions Outside Vehicle  | 1        | 1              | 31     | 40        |         | 73    |
| Driver Operating Other Electronic Devices (computers, navigational, etc.) |          |                | 4      | 3         |         | 7     |
| Eating or Drinking  |          |                | 3      | 5         |         | 8     |
| Exceeding Reasonable and Safe Speed                                       |          | 10             | 73     | 123       |         | 206   |
| Exceeding Stated Speed Limit  | 4        | 8              | 32     | 49        |         | 93    |
| Failing To Signal   |          |                | 3      | 3         |         | 6     |
| Failure to Use Xwalk  | 6        | 13             | 14     | 1         |         | 34    |
| Following Too Closely   |          | 2              | 112    | 187       |         | 301   |
| Had Taken Medication  |          |                | 1      |           |         | 1     |
| Improper Backing  |          |                | 8      | 88        |         | 96    |
| Improper Parking Location   |          | 1              | 2      | 7         |         | 10    |
| Improper Passing  | 1        | 4              | 16     | 47        |         | 68    |
| Improper Signal   |          | 2              | 2      | 5         |         | 9     |
| Improper Turn/Merge   | 1        | 15             | 108    | 296       |         | 420   |
| Improper U-Turn   |          | 2              | 22     | 38        |         | 62    |
| Light Violation - No Lights/Fail to Dim                                   |          |                | 4      | 4         |         | 8     |
| Lost in Thought/Day Dreaming  |          | 2              | 11     | 14        |         | 27    |
| Non motorist on Wrong Side OF Road  | 1        |                | 3      | 3         |         | 7     |
| None  | 18       | 198            | 2,085  | 3,820     |         | 6,121 |
| None Stated   | 18       | 142            | 1,435  | 2,310     | 747     | 4,652 |
| Operating Defective Equipment   |          | 1              | 28     | 48        |         | 77    |
| Operating Handheld Cell Phone   |          | 1              | 10     | 17        |         | 28    |
| Operating Hands-free Cell Phone   |          |                | 2      | 1         |         | 3     |
| Operating Reckless or Aggressively  |          | 4              | 17     | 40        |         | 61    |
| Other Distractions  | 1        | 6              | 67     | 77        |         | 151   |



| Circumstance                        | Fatality | Serious Injury | Injury | No Injury | Unknown | Total |
|-------------------------------------|----------|----------------|--------|-----------|---------|-------|
| Other/Contributing Circ. Not Listed | 3        | 21             | 246    | 765       |         | 1035  |
| Overcorrecting/Oversteering         |          |                | 8      | 26        |         | 34    |
| Physically Impaired                 |          |                | 2      | 4         |         | 6     |
| Racing                              |          |                | 2      |           |         | 2     |
| Smoking                             |          |                |        | 1         |         | 1     |
| Under the Influence of Alcohol      | 4        | 26             | 145    | 296       |         | 471   |
| Under the Influence of Drugs        |          | 9              | 39     | 60        |         | 108   |
| Unknown Distraction                 | 6        | 43             | 302    | 690       |         | 1041  |





**TABLE 22: 2022 FATALITIES**

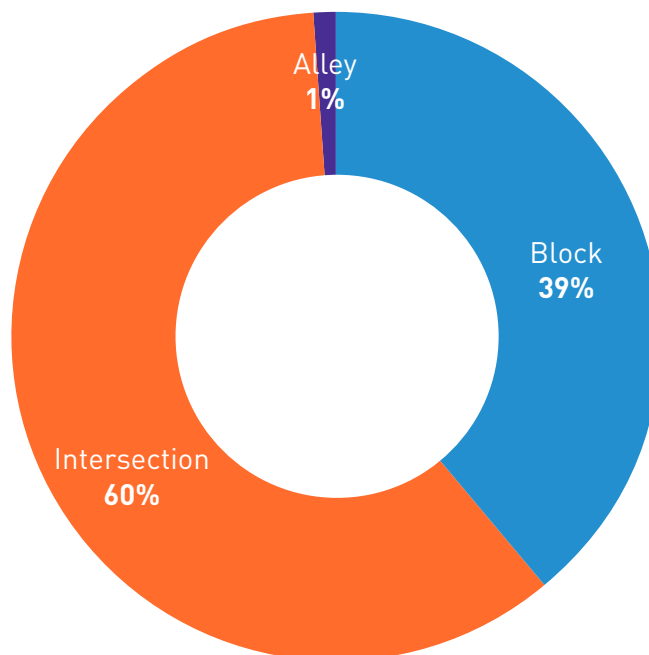
| Location   | Date     | Victim Mode             | # Victims |
|--|----------|-------------------------|-----------|
| S King St between 12th Ave S and Rainier Ave S                             | 1/1/22   | Vehicle (passenger)     | 1         |
| 3rd Ave S and S Holgate St   | 1/4/22   | Bicycle                 | 1         |
| NE 45th St between U Village Dr and NE 45th Pl                             | 1/30/22  | Pedestrian              | 1         |
| 6th Ave S and S Michigan St  | 2/16/22  | Vehicle                 | 1         |
| 2nd Ave SW and Highland Park Way SW  | 3/25/22  | Pedestrian              | 1         |
| Aurora Ave N between N 66th St and N 67th St                               | 4/2/22   | Vehicle (passenger)     | 1         |
| Elliott Ave W between W Mercer Pl and W Prospect St                        | 4/4/22   | Vehicle                 | 1         |
| 15th Ave W and Gilman Dr W   | 4/23/22  | Pedestrian              | 1         |
| N Northlake Way between Meridian Ave N and Corliss Ave N                   | 4/29/22  | Vehicle                 | 1         |
| California Ave SW between SW Brandon St and SW Findlay St                  | 5/6/22   | Pedestrian              | 1         |
| 4th Ave S between S Massachusetts St and S Holgate St                      | 5/11/22  | Bicycle                 | 1         |
| 15th Ave NW between NW 77th St and NW 80th St                              | 6/10/22  | Vehicle                 | 1         |
| Aurora Ave N between N 107th S St and N 107th N St                         | 6/27/22  | Vehicle (motorcycle)    | 1         |
| Wilson Ave S between S Hawthorn Rd and S Upland Rd                         | 6/30/22  | Vehicle                 | 1         |
| Aurora Ave N between N 141st St and N 143rd St                             | 7/3/22   | Pedestrian              | 1         |
| 11th CR Ave SW and SW Spokane St   | 7/15/22  | Bicycle                 | 1         |
| Rainier Ave S between S Findlay St and S Orcast St                         | 8/1/22   | Vehicle (passenger)     | 1         |
| 15th Ave NE between NE 125th St and NE 127th St                            | 8/29/22  | Pedestrian              | 1         |
| 1st Ave S between S Massachusetts St and S Holgate St                      | 9/28/22  | Pedestrian              | 1         |
| Aurora Ave N between N 137th St and N 140th St                             | 10/2/22  | Pedestrian (skateboard) | 1         |
| Aurora Ave N and N 100th St  | 10/10/22 | Pedestrian (wheelchair) | 1         |
| Rainier Ave S between S Walden St and S Estelle St                         | 10/21/22 | Pedestrian              | 1         |
| Ellis Ave S and E Marginal Way S   | 10/27/22 | Pedestrian              | 1         |
| Aurora Ave N between N Phinney Way and N 46 Upper St                       | 11/6/22  | Pedestrian              | 1         |
| Mercer St between Queen Anne Ave N and 1st Ave N                           | 11/10/22 | Pedestrian              | 1         |
| Ersphine Way SW between California Ave SW and Lewis Pl SW                  | 11/19/22 | Pedestrian              | 1         |
| 4th Ave N between Valley St and Aloha St                                   | 11/19/22 | Pedestrian              | 1         |
| Aurora Ave N between Garfield St and Howe St                               | 11/21/22 | Pedestrian              | 1         |
| Alaskan Way S and S Dearborn St  | 12/8/22  | Vehicle                 | 1         |
| 4th Ave S between S Spokane SR St and W Seattle Bridge EB 4th Ave Off Ramp | 12/16/22 | Bicycle (scooter share) | 1         |

## 2022 PEDESTRIAN-INVOLVED COLLISION DATA

**TABLE 23: 2022 PEDESTRIAN COLLISION LOCATIONS**

| Collision Location | Count |
|--------------------|-------|
| Alley              | 3     |
| Block              | 144   |
| Intersection       | 226   |

**FIGURE 28: 2022 PEDESTRIAN-INVOLVED COLLISION LOCATIONS**



**TABLE 24: 2012-2022 PEDESTRIAN - INVOLVED COLLISION RATE PER MILLION INHABITANTS**

| Year | Pedestrian Collisions | Seattle Population | Pedestrian Collisions Per Capita | Pedestrian Collisions Per 100,000 |
|------|-----------------------|--------------------|----------------------------------|-----------------------------------|
| 2012 | 486                   | 634,535            | 0.000766                         | 77                                |
| 2013 | 413                   | 652,000            | 0.000633                         | 63                                |
| 2014 | 496                   | 668,342            | 0.000742                         | 74                                |
| 2015 | 522                   | 684,451            | 0.000763                         | 76                                |
| 2016 | 553                   | 704,352            | 0.000785                         | 79                                |
| 2017 | 537                   | 713,700            | 0.000752                         | 75                                |
| 2018 | 546                   | 730,400            | 0.000748                         | 75                                |
| 2019 | 572                   | 747,300            | 0.000765                         | 77                                |
| 2020 | 297                   | 761,100            | 0.000390                         | 39                                |
| 2021 | 355                   | 742,400            | 0.000478                         | 48                                |
| 2022 | 373                   | 762,500            | 0.000490                         | 49                                |





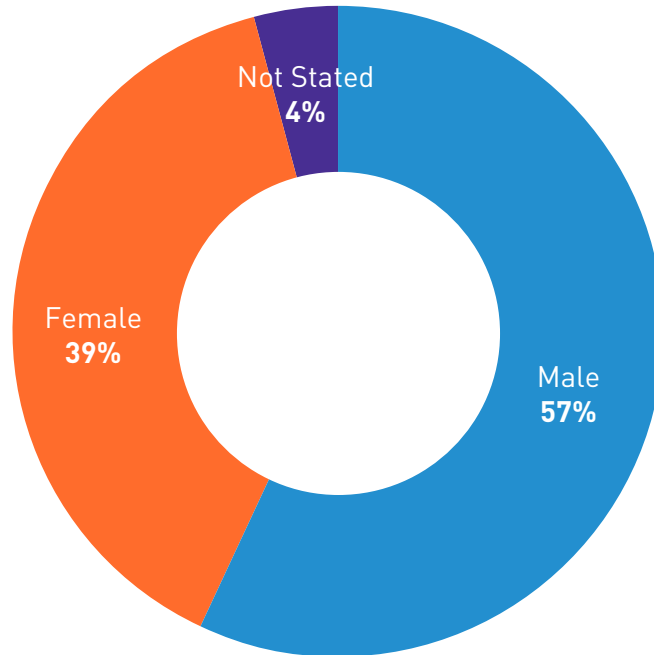
**TABLE 25: 2022 INJURY CLASS OF PEDESTRIANS-INVOLVED COLLISIONS BY FACILITY TYPE**

| Facility              | Fatality Collision | Serious Injury Collision | Injury Collision | Property Damage Only Collision | Total |
|-----------------------|--------------------|--------------------------|------------------|--------------------------------|-------|
| Designated Bike Route |                    | 3                        | 5                |                                | 8     |
| Marked Cross Walk     |                    | 17                       | 58               | 13                             | 88    |
| Other                 |                    | 2                        | 5                |                                | 7     |
| Roadway               | 7                  | 21                       | 43               | 9                              | 80    |
| Shoulder              |                    | 1                        | 2                |                                | 3     |
| Sidewalk              | 1                  | 1                        | 8                | 1                              | 11    |
| Unmarked Crosswalk    |                    | 2                        | 14               |                                | 16    |
| Walkway               |                    |                          | 4                |                                | 4     |
| None Stated           | 8                  | 42                       | 96               | 15                             | 161   |

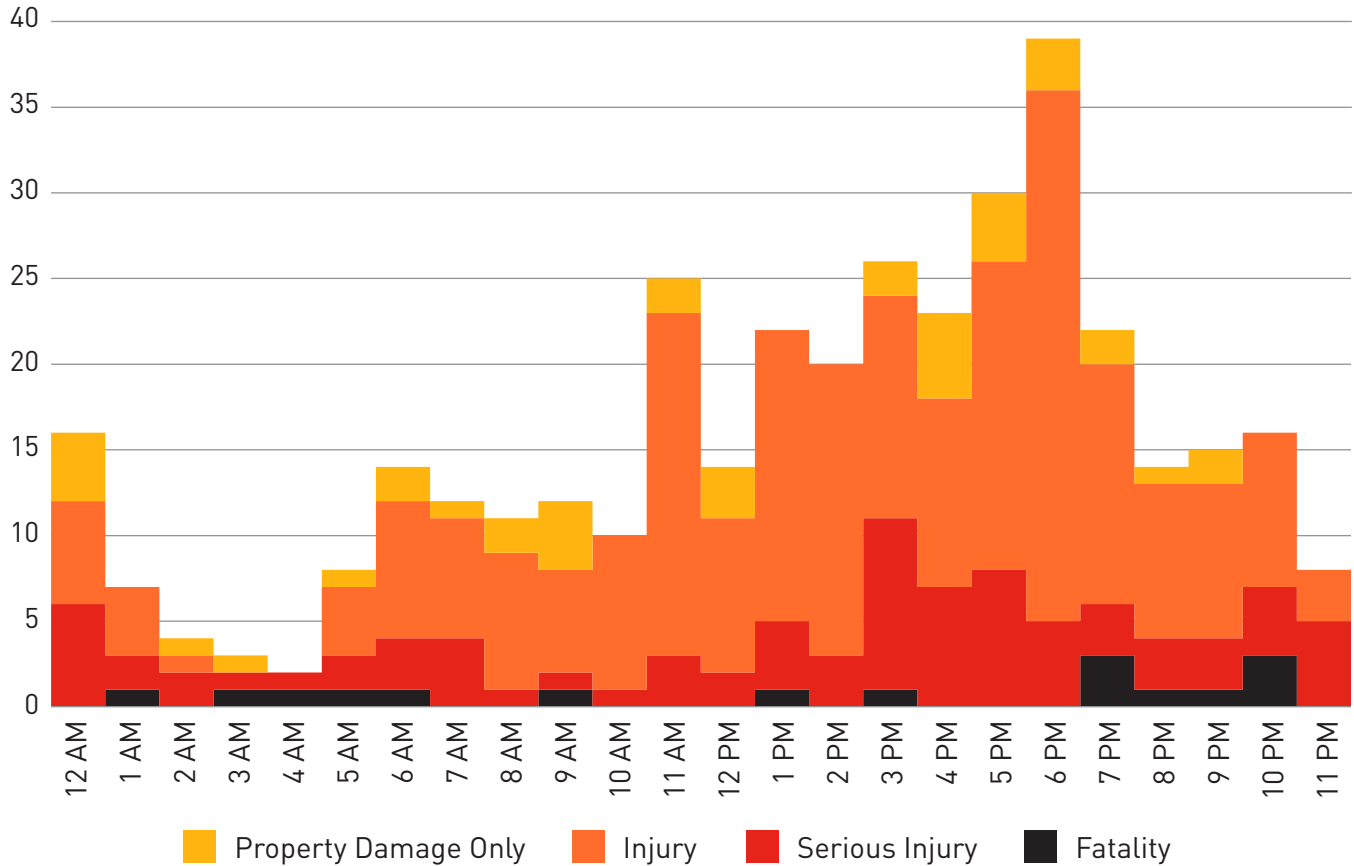
**TABLE 26: 2022 INJURY CLASS OF PEDESTRIANS-INVOLVED COLLISIONS**

| Age          | Fatality Collision | Serious Injury Collision | Injury Collision | Property Damage Only Collision | Total |
|--------------|--------------------|--------------------------|------------------|--------------------------------|-------|
| 18 and under |                    | 6                        | 26               | 2                              | 34    |
| 19-29        | 2                  | 25                       | 48               | 9                              | 84    |
| 30-40        | 2                  | 15                       | 54               | 10                             | 81    |
| 41-51        | 2                  | 11                       | 39               | 2                              | 54    |
| 52-62        | 2                  | 8                        | 22               | 7                              | 39    |
| 63-73        | 6                  | 12                       | 20               | 2                              | 40    |
| 74-84        | 2                  | 3                        | 8                |                                | 13    |
| 85 and Over  |                    | 1                        | 4                |                                | 5     |
| None Stated  |                    | 8                        | 14               | 6                              | 28    |

**FIGURE 29: 2022 GENDER IDENTITY OF PEDESTRIANS INVOLVED COLLISIONS**



**FIGURE 30: 2022 PEDESTRIAN COLLISION SEVERITY BY HOUR OF THE DAY**

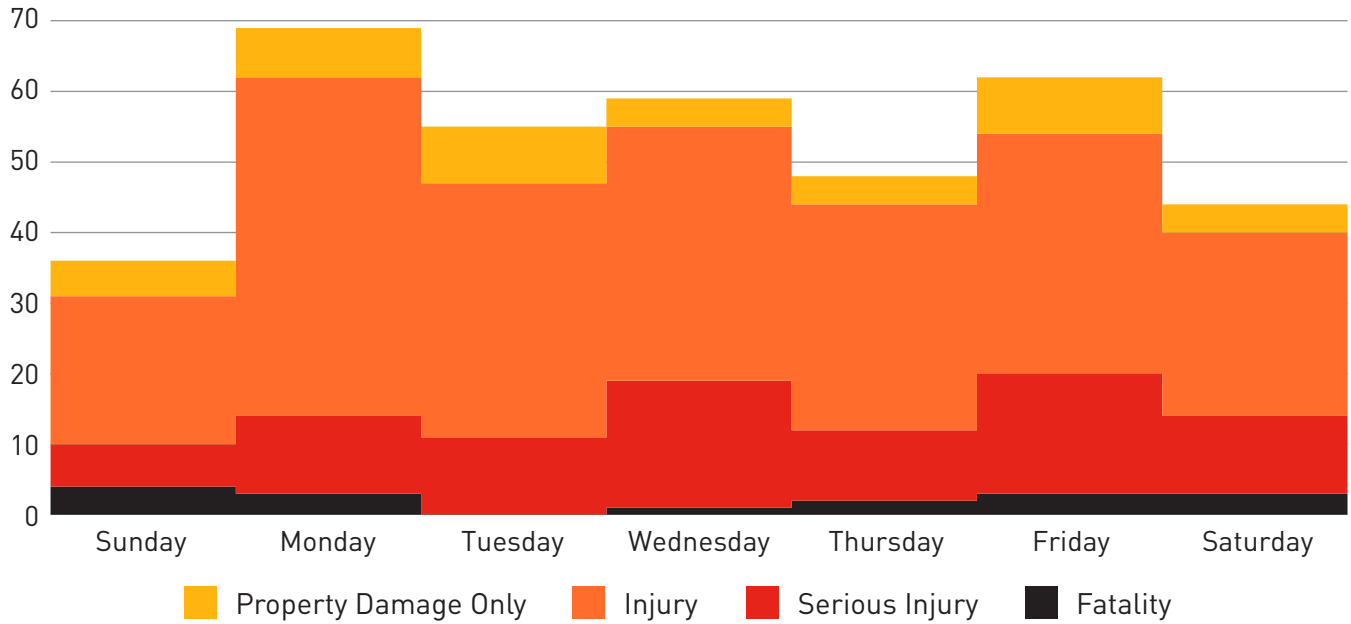


**TABLE 27: 2022 PEDESTRIAN-INVOLVED COLLISION SEVERITY BY HOUR OF DAY**

| Hour of Day | Fatality Collision | Serious Injury Collision | Injury Collision | Property Damage Only Collision | Total |
|-------------|--------------------|--------------------------|------------------|--------------------------------|-------|
| Not Stated  |                    | 5                        | 13               | 3                              | 21    |
| 12 AM       | 1                  | 6                        | 6                | 3                              | 16    |
| 1 AM        |                    | 2                        | 3                |                                | 5     |
| 2 AM        |                    | 2                        | 1                | 1                              | 4     |
| 3 AM        | 1                  | 1                        |                  | 1                              | 3     |
| 4 AM        | 1                  |                          |                  |                                | 1     |
| 5 AM        | 1                  | 2                        | 4                | 1                              | 8     |
| 6 AM        | 1                  | 3                        | 8                | 2                              | 14    |
| 7 AM        |                    | 4                        | 6                | 1                              | 11    |
| 8 AM        |                    |                          | 8                | 1                              | 9     |
| 9 AM        | 1                  | 1                        | 6                | 4                              | 12    |
| 10 AM       |                    | 1                        | 9                |                                | 10    |
| 11 AM       |                    | 2                        | 19               | 2                              | 23    |
| 12 PM       |                    | 2                        | 9                | 3                              | 14    |
| 1 PM        | 1                  | 4                        | 17               |                                | 22    |
| 2 PM        |                    | 3                        | 16               |                                | 19    |
| 3 PM        | 1                  | 10                       | 13               | 2                              | 26    |
| 4 PM        |                    | 7                        | 11               | 5                              | 23    |
| 5 PM        |                    | 7                        | 17               | 4                              | 28    |
| 6 PM        |                    | 4                        | 27               | 3                              | 34    |
| 7 PM        | 3                  | 3                        | 12               | 1                              | 19    |
| 8 PM        | 1                  | 3                        | 8                | 1                              | 13    |
| 9 PM        | 1                  | 3                        | 8                | 2                              | 14    |
| 10 PM       | 3                  | 4                        | 9                |                                | 16    |
| 11 PM       |                    | 5                        | 3                |                                | 8     |



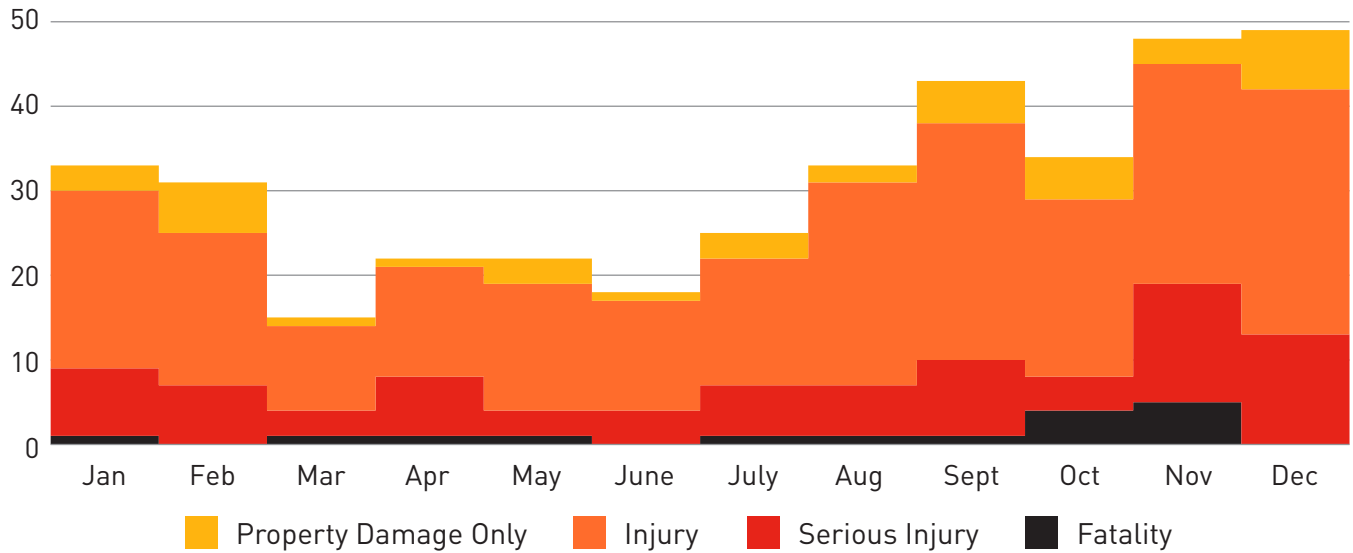
**FIGURE 31: 2022 PEDESTRIAN COLLISION SEVERITY BY DAY OF WEEK**



**TABLE 28: 2022 PEDESTRIAN-INVOLVED COLLISION SEVERITY BY DAY OF WEEK**

| Day of Week | Fatality Collision | Serious Injury Collision | Injury Collision | Property Damage Only Collision | Total |
|-------------|--------------------|--------------------------|------------------|--------------------------------|-------|
| Sunday      | 4                  | 6                        | 21               | 5                              | 36    |
| Monday      | 3                  | 11                       | 48               | 7                              | 69    |
| Tuesday     |                    | 11                       | 36               | 8                              | 55    |
| Wednesday   | 1                  | 18                       | 36               | 4                              | 59    |
| Thursday    | 2                  | 10                       | 32               | 4                              | 48    |
| Friday      | 3                  | 17                       | 34               | 8                              | 63    |
| Saturday    | 3                  | 11                       | 26               | 4                              | 44    |

**FIGURE 32: 2022 PEDESTRIAN COLLISION SEVERITY BY MONTH**



**TABLE 29: PEDESTRIAN-INVOLVED COLLISION SEVERITY BY MONTH IN 2022**

| Month     | Fatality Collision | Serious Injury Collision | Injury Collision | Property Damage Only Collision | Total |
|-----------|--------------------|--------------------------|------------------|--------------------------------|-------|
| January   | 1                  | 8                        | 21               | 3                              | 33    |
| February  |                    | 7                        | 18               | 6                              | 31    |
| March     | 1                  | 3                        | 10               | 1                              | 15    |
| April     | 1                  | 7                        | 13               | 1                              | 22    |
| May       | 1                  | 3                        | 15               | 3                              | 22    |
| June      |                    | 4                        | 13               | 1                              | 18    |
| July      | 1                  | 6                        | 15               | 3                              | 25    |
| August    | 1                  | 6                        | 24               | 2                              | 33    |
| September | 1                  | 9                        | 28               | 5                              | 43    |
| October   | 4                  | 4                        | 21               | 5                              | 34    |
| November  | 5                  | 14                       | 26               | 3                              | 48    |
| December  |                    | 13                       | 29               | 7                              | 50    |

**TABLE 30: VEHICLE ACTIONS IN PEDESTRIAN-INVOLVED COLLISIONS IN 2022**

| Vehicle Action  | Total |
|---|-------|
| All other non-collision   | 1     |
| Entering at angle   | 3     |
| Fixed object  | 3     |
| From same direction - both going straight - both moving - sideswipe | 3     |
| From same direction - both going straight - one stopped - rear-end  | 3     |
| From same direction - one right turn - one straight                 | 1     |
| One car entering parked position                                    | 1     |
| One parked--one moving  | 4     |
| Other object  | 1     |
| Pedal cyclist Strikes Moving Vehicle                                | 1     |
| Pedal cyclist Strikes Pedal cyclist or Pedestrian                   | 1     |
| Vehicle backing hits pedestrian                                     | 11    |
| Vehicle going straight hits pedestrian                              | 191   |
| Vehicle hits Pedestrian - All Other Actions                         | 9     |
| Vehicle turning left hits pedestrian                                | 98    |
| Vehicle turning right hits pedestrian                               | 47    |

**TABLE 31: INJURY CLASS OF 2022 PEDESTRIAN-INVOLVED COLLISIONS BY WEATHER**

| Weather Condition        | Fatality Collision | Serious Injury Collision | Injury Collision | Property Damage Only Collision | Total |
|--------------------------|--------------------|--------------------------|------------------|--------------------------------|-------|
| Clear                    | 6                  | 50                       | 138              | 20                             | 215   |
| Fog/Smog/Smoke           |                    |                          | 1                |                                | 1     |
| Not Stated               | 1                  | 6                        | 15               | 3                              | 25    |
| Other                    |                    |                          |                  | 1                              | 1     |
| Overcast                 | 5                  | 15                       | 39               | 8                              | 67    |
| Raining                  | 4                  | 12                       | 38               | 7                              | 61    |
| Sleet/Hail/Freezing Rain |                    | 1                        |                  |                                | 1     |
| Snowing                  |                    |                          | 2                | 1                              | 3     |





**TABLE 32: 2022 PEDESTRIAN-INVOLVED COLLISIONS BY LIGHT CONDITIONS**

| Condition                | Total |
|--------------------------|-------|
| Dark - No Street Lights  | 7     |
| Dark - Street Lights Off | 5     |
| Dark - Street Lights On  | 130   |
| Dark - Unknown Lighting  | 5     |
| Dawn                     | 7     |
| Daylight                 | 181   |
| Dusk                     | 13    |
| Not Stated               | 23    |
| Other                    | 1     |
| Unknown                  | 1     |

**TABLE 33: 2022 PEDESTRIAN-INVOLVED COLLISIONS BY ROAD CONDITION**

| Condition  | Fatality Collision | Serious Injury Collision | Injury Collision | Property Damage Only Collision | Total |
|------------|--------------------|--------------------------|------------------|--------------------------------|-------|
| Dry        | 10                 | 54                       | 158              | 24                             | 246   |
| Ice        |                    | 1                        | 3                |                                | 4     |
| Not Stated | 2                  | 5                        | 13               | 3                              | 23    |
| Snow/Slush |                    | 1                        | 2                | 1                              | 4     |
| Unknown    |                    | 1                        | 1                | 1                              | 3     |
| Wet        | 4                  | 22                       | 56               | 11                             | 93    |

## 2022 BICYCLE COLLISION DATA

FIGURE 33: 2022 BICYCLE COLLISION LOCATIONS

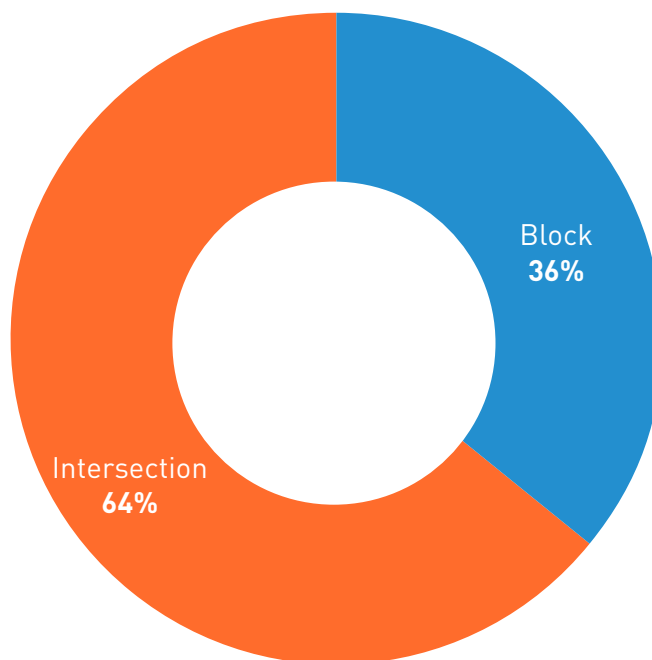
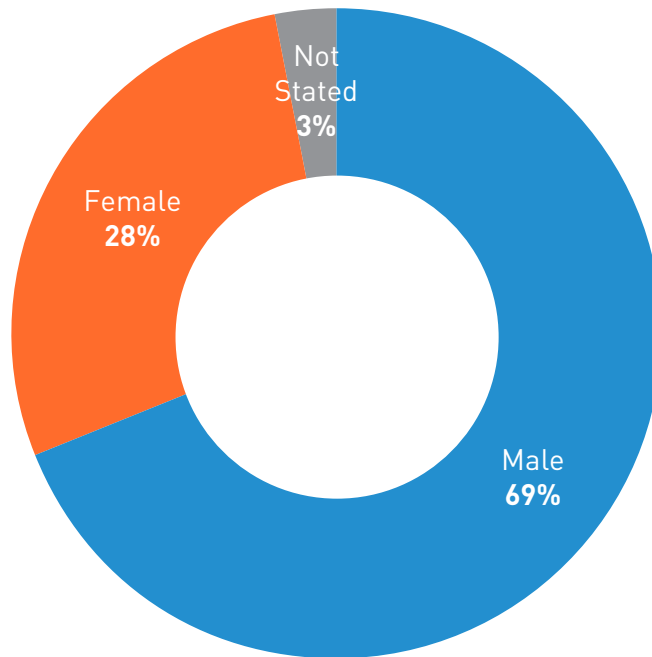


TABLE 34: CONTRIBUTING CIRCUMSTANCE FOR 2022 BICYCLE COLLISIONS

| Motor Vehicle Driver Action           | Fatality Collision | Serious Injury Collision | Injury Collision | Property Damage Only Collision | Total |
|---------------------------------------|--------------------|--------------------------|------------------|--------------------------------|-------|
| Did not Grant Right of Way to Vehicle | 1                  | 2                        | 13               | 1                              | 17    |
| Disregard Traffic Sign or Signal      |                    | 1                        | 4                | 1                              | 6     |
| Exceeding Reasonable and Safe Speed   |                    | 1                        | 6                |                                | 7     |
| Exceeding Stated Speed Limit          |                    | 1                        |                  |                                | 1     |
| Improper Passing                      |                    | 1                        |                  | 1                              | 2     |
| Improper Signal                       |                    | 1                        | 1                |                                | 2     |
| Improper Turn/Merge                   |                    | 1                        | 1                |                                | 2     |
| Non motorist on Wrong Side of Road    |                    |                          | 2                | 2                              | 4     |
| No Description                        | 2                  | 21                       | 126              | 14                             | 163   |
| Operating Defective Equipment         |                    |                          | 3                |                                | 3     |
| Operating Reckless or Aggressively    |                    |                          | 1                |                                | 1     |
| Other Distractions                    |                    |                          | 4                | 1                              | 5     |
| Other/Contributing Circ. Not Listed   | 1                  | 2                        | 6                | 2                              | 11    |
| Under the Influence of Alcohol        |                    |                          | 3                |                                | 3     |
| Unknown Distraction                   |                    | 4                        | 12               | 2                              | 18    |
| Not Stated                            |                    | 3                        | 14               | 1                              | 18    |



**FIGURE 34: GENDER IDENTITY OF CYCLISTS INVOLVED IN 2022 COLLISIONS**



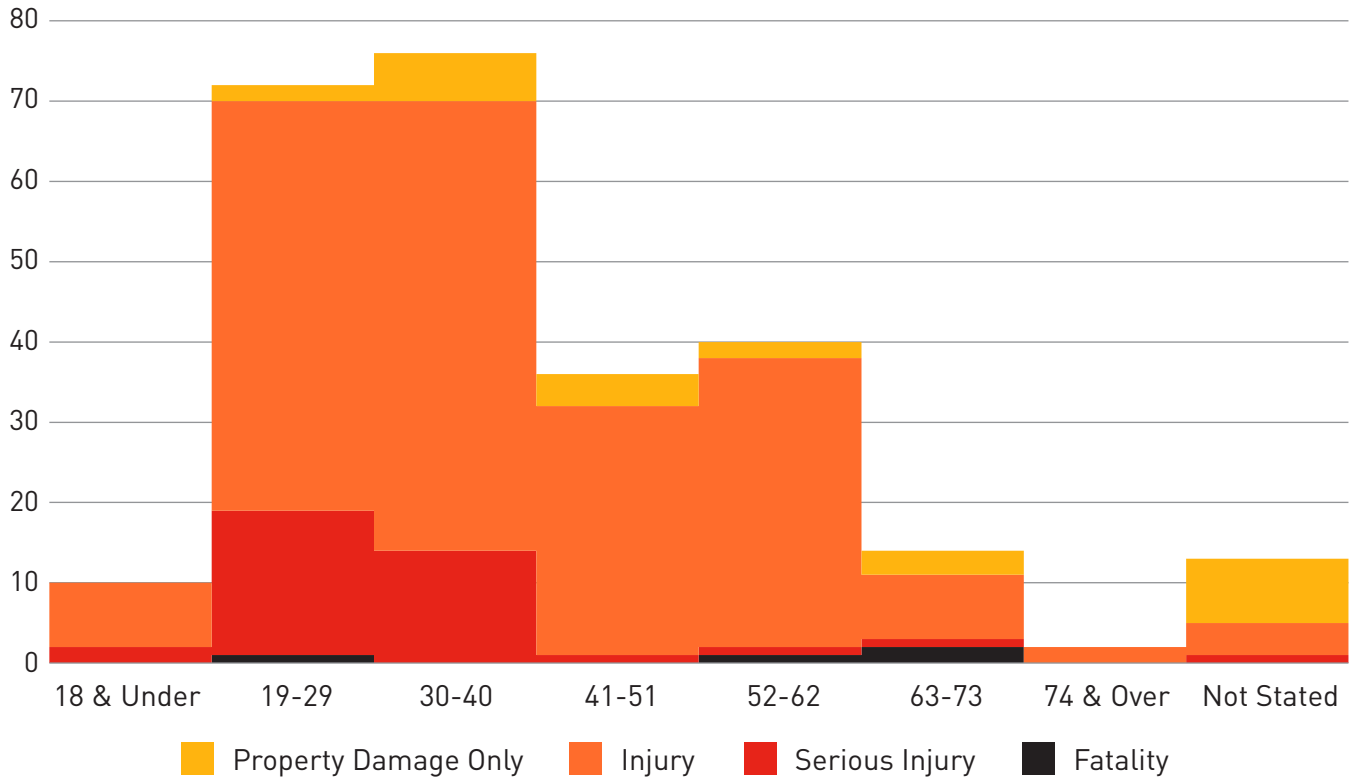
**TABLE 35: GENDER IDENTITY OF CYCLISTS INVOLVED IN 2022 COLLISIONS**

| Gender     | Fatality Collision | Serious Injury Collision | Injury Collision | Property Damage Only Collision | Total |
|------------|--------------------|--------------------------|------------------|--------------------------------|-------|
| Male       | 4                  | 26                       | 132              | 18                             | 180   |
| Female     |                    | 12                       | 60               | 2                              | 74    |
| Not Stated |                    |                          | 4                | 5                              | 9     |





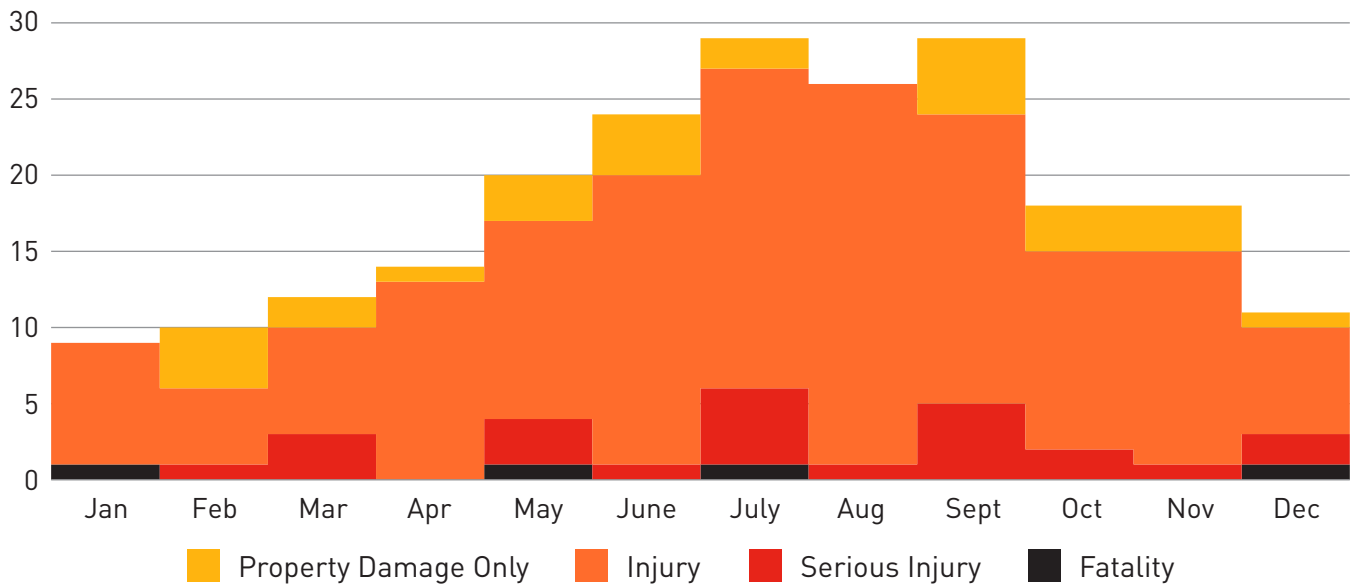
**FIGURE 35: AGE OF CYCLISTS INVOLVED IN 2022 COLLISIONS**



**TABLE 36: AGE OF CYCLISTS INVOLVED IN 2022 COLLISIONS**

| Age          | Fatality Collision | Serious Injury Collision | Injury Collision | Property Damage Only Collision | Total |
|--------------|--------------------|--------------------------|------------------|--------------------------------|-------|
| 18 and Under |                    | 2                        | 8                |                                | 10    |
| 19-29        | 1                  | 18                       | 51               | 2                              | 72    |
| 30-40        |                    | 14                       | 56               | 6                              | 76    |
| 41-51        |                    | 1                        | 31               | 4                              | 36    |
| 52-62        | 1                  | 1                        | 36               | 2                              | 40    |
| 63-73        | 2                  | 1                        | 8                | 3                              | 14    |
| 74 and Over  |                    |                          | 2                |                                | 2     |
| Not Stated   |                    | 1                        | 4                | 8                              | 13    |

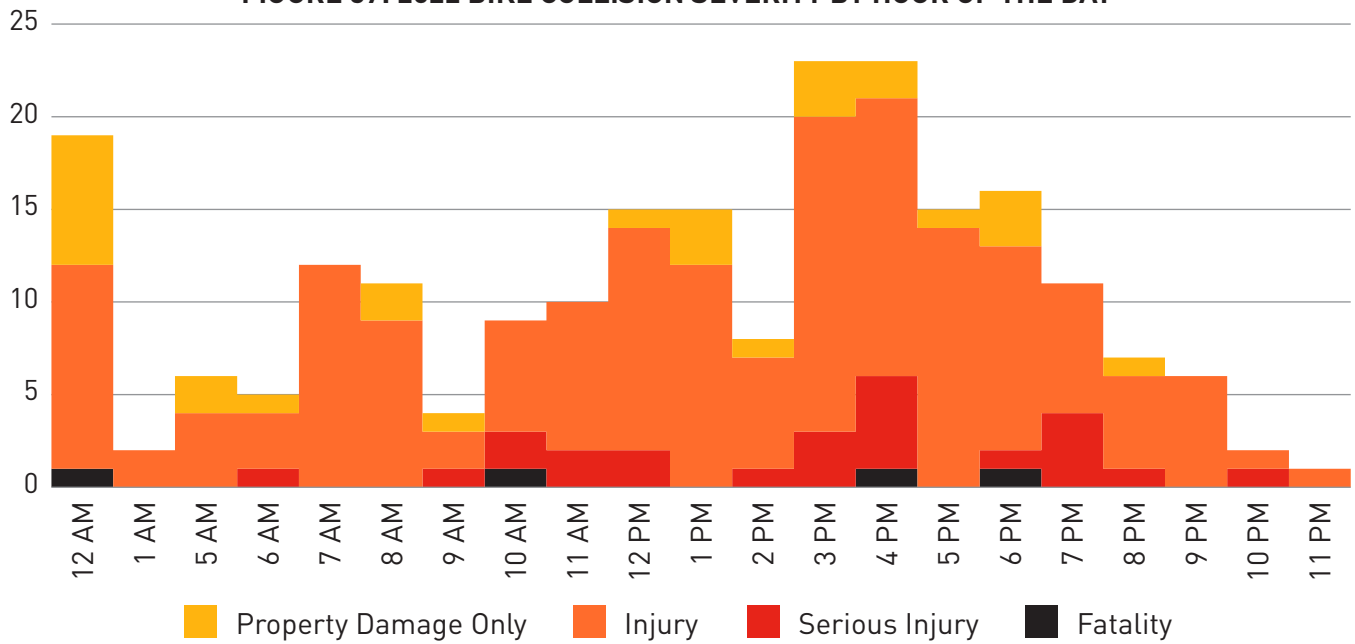
**FIGURE 36: 2022 BICYCLE COLLISIONS BY MONTH**



**TABLE 37: BICYCLE COLLISIONS BY MONTH IN 2022**

| Month     | Fatality Collision | Serious Injury Collision | Injury Collision | Property Damage Only Collision | Total |
|-----------|--------------------|--------------------------|------------------|--------------------------------|-------|
| January   | 1                  |                          | 8                |                                | 9     |
| February  |                    | 1                        | 5                | 4                              | 10    |
| March     |                    | 3                        | 7                | 2                              | 12    |
| April     |                    |                          | 13               | 1                              | 14    |
| May       | 1                  | 3                        | 13               | 3                              | 20    |
| June      |                    | 1                        | 19               | 4                              | 24    |
| July      | 1                  | 5                        | 21               | 2                              | 29    |
| August    |                    | 1                        | 25               |                                | 26    |
| September |                    | 5                        | 19               | 5                              | 29    |
| October   |                    | 2                        | 13               | 3                              | 18    |
| November  |                    | 1                        | 14               | 3                              | 18    |
| December  | 1                  | 2                        | 7                | 1                              | 11    |

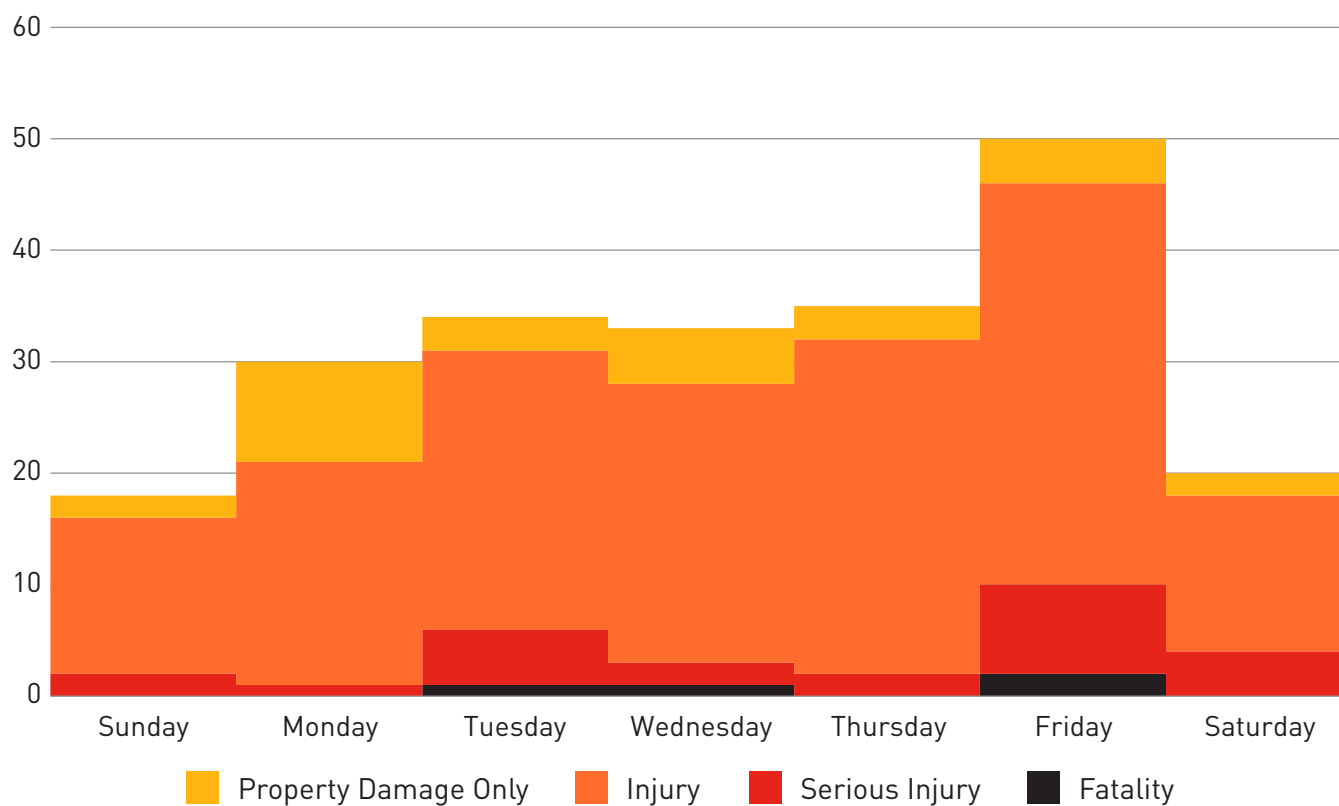
**FIGURE 37: 2022 BIKE COLLISION SEVERITY BY HOUR OF THE DAY**



**TABLE 38: BIKE COLLISION SEVERITY BY HOUR OF DAY IN 2022**

| Hour       | Fatality Collision | Serious Injury Collision | Injury Collision | Property Damage Only Collision | Total |
|------------|--------------------|--------------------------|------------------|--------------------------------|-------|
| Not Stated | 1                  |                          | 9                | 7                              | 16    |
| 12 AM      |                    |                          | 2                |                                | 2     |
| 1 AM       |                    |                          | 2                |                                | 2     |
| 5 AM       |                    |                          | 4                | 2                              | 6     |
| 6 AM       |                    | 1                        | 3                | 1                              | 5     |
| 7 AM       |                    |                          | 12               |                                | 12    |
| 8 AM       |                    |                          | 9                | 2                              | 11    |
| 9 AM       |                    | 1                        | 2                | 1                              | 4     |
| 10 AM      | 1                  | 2                        | 6                |                                | 9     |
| 11 AM      |                    | 2                        | 8                |                                | 10    |
| 12 PM      |                    | 2                        | 12               | 1                              | 15    |
| 1 PM       |                    |                          | 12               | 3                              | 15    |
| 2 PM       |                    | 1                        | 6                | 1                              | 8     |
| 3 PM       |                    | 3                        | 17               | 3                              | 23    |
| 4 PM       | 1                  | 5                        | 15               | 2                              | 23    |
| 5 PM       |                    |                          | 14               | 1                              | 15    |
| 6 PM       | 1                  | 1                        | 11               | 3                              | 16    |
| 7 PM       |                    | 4                        | 7                |                                | 11    |
| 8 PM       |                    | 1                        | 5                | 1                              | 7     |
| 9 PM       |                    |                          | 6                |                                | 6     |
| 10 PM      |                    | 1                        | 1                |                                | 2     |
| 11 PM      |                    |                          | 1                |                                | 1     |
| 10 PM      | 0                  | 1                        | 2                | 1                              | 4     |
| 11 PM      | 0                  | 0                        | 3                | 1                              | 4     |

**FIGURE 38: BIKE COLLISION SEVERITY BY DAY 2022**



**TABLE 39: BIKE COLLISION SEVERITY OF THE DAY IN 2022**

| Day       | Fatality Collision | Serious Injury Collision | Injury Collision | Property Damage Only Collision | Total |
|-----------|--------------------|--------------------------|------------------|--------------------------------|-------|
| Sunday    |                    | 2                        | 14               | 2                              | 18    |
| Monday    |                    | 1                        | 20               | 9                              | 30    |
| Tuesday   | 1                  | 5                        | 25               | 3                              | 34    |
| Wednesday | 1                  | 2                        | 25               | 5                              | 33    |
| Thursday  |                    | 2                        | 30               | 3                              | 35    |
| Friday    | 2                  | 8                        | 36               | 4                              | 50    |
| Saturday  |                    | 4                        | 14               | 2                              | 20    |





**TABLE 40: INJURY CLASS OF CYCLISTS IN 2022 COLLISIONS BY WEATHER**

| Weather Condition | Fatality Collision | Serious Injury Collision | Injury Collision | Property Damage Only Collision | Total |
|-------------------|--------------------|--------------------------|------------------|--------------------------------|-------|
| Clear             | 3                  | 17                       | 124              | 18                             | 162   |
| Other             |                    |                          |                  | 1                              | 1     |
| Overcast          |                    | 6                        | 17               |                                | 23    |
| Raining           | 1                  | 1                        | 14               | 2                              | 18    |
| Not Stated        |                    |                          | 9                | 7                              | 16    |
| Raining           | 1                  | 0                        | 11               | 4                              | 16    |
| Not Stated        | 2                  | 2                        | 17               | 8                              | 31    |

**TABLE 41: INJURY CLASS OF CYCLISTS INVOLVED IN 2022 COLLISIONS BY FACILITY TYPE**

| Facility              | Fatality Collision | Serious Injury Collision | Injury Collision | Property Damage Only Collision | Total |
|-----------------------|--------------------|--------------------------|------------------|--------------------------------|-------|
| Designated Bike Route |                    | 12                       | 65               | 6                              | 83    |
| Marked Cross Walk     |                    | 2                        | 27               | 3                              | 32    |
| Other                 |                    | 1                        | 4                |                                | 5     |
| Roadway               | 3                  | 12                       | 66               | 15                             | 95    |
| Shoulder              |                    |                          | 4                |                                | 4     |
| Sidewalk              | 1                  | 4                        | 18               | 1                              | 24    |
| Unmarked Crosswalk    |                    |                          | 4                |                                | 4     |
| Walkway               |                    |                          | 3                |                                | 3     |
| Not Stated            |                    |                          | 5                | 2                              | 7     |

**TABLE 42: CLOTHING VISIBILITY FOR CYCLISTS INVOLVED IN 2022 COLLISIONS**

| Clothing                                  | Fatality Collision | Serious Injury Collision | Injury Collision | Property Damage Only Collision | Total |
|---|--------------------|--------------------------|------------------|--------------------------------|-------|
| Dark                                      | 2                  | 13                       | 42               | 6                              | 63    |
| Light                                     |                    | 7                        | 29               | 3                              | 39    |
| Mixed                                     | 2                  | 15                       | 106              | 13                             | 136   |
| Not Stated                                |                    | 3                        | 5                | 2                              | 10    |
| Other Reflective Apparel - Shoes, Patches |                    |                          | 8                | 1                              | 9     |
| Retro - Reflective                        |                    |                          | 6                |                                | 6     |

**TABLE 43: INJURY CLASS OF CYCLISTS IN 2022 COLLISIONS BY LIGHT CONDITION**

| Light Condition          | Fatality Collision | Serious Injury Collision | Injury Collision | Property Damage Only Collision | Total |
|--------------------------|--------------------|--------------------------|------------------|--------------------------------|-------|
| Dark - No Street Lights  |                    |                          | 2                |                                | 2     |
| Dark - Street Lights Off |                    |                          | 1                | 1                              | 2     |
| Dark - Street Lights On  | 2                  | 3                        | 22               | 2                              | 29    |
| Dawn                     |                    |                          | 2                | 1                              | 3     |
| Daylight                 | 2                  | 18                       | 120              | 15                             | 155   |
| Dusk                     |                    | 2                        | 8                | 1                              | 11    |
| Other                    |                    | 1                        |                  |                                | 1     |
| Unknown                  |                    |                          |                  | 1                              | 1     |
| Not Stated               |                    |                          | 9                | 7                              | 16    |





## SPEED DATA

**TABLE 44: PROBE AND TUBE-BASED SPEED DATA FOR 2022**

| Location                             | Direction | 2022 Speed Limit | 85th Percentile Speed | Date      |
|--------------------------------------|-----------|------------------|-----------------------|-----------|
| SW Admiral Way, SE/O SW City View St | SEB       | 25               | 41.8                  | 10/1/2022 |
| SW Admiral Way, SE/O SW City View St | NWB       | 25               | 40.7                  | 10/1/2022 |
| Greenwood Ave N, S/O N 145th St      | SB        | 30               | 38.7                  | 10/1/2022 |
| Elliott Ave W, SE/O W Mercer Pl      | SEB       | 25               | 38.5                  | 10/1/2022 |
| Elliott Ave W, SE/O W Mercer Pl      | NWB       | 25               | 38.1                  | 10/1/2022 |
| 4th Ave S, N/O S Dawson St           | SB        | 30               | 37.7                  | 10/1/2022 |
| 16th Ave S, N/O 16th Ave S Br*       | NB        | 30               | 43.9                  | 3/25/2022 |
| 16th Ave S, N/O 16th Ave S Br*       | SB        | 30               | 43.4                  | 3/25/2022 |
| NE Northgate Way, W/O 15th Ave NE*   | EB        | 25               | 38.3                  | 2/24/2022 |
| Pinehurst Way NE, NE/O NE 115th St*  | SWB       | 25               | 37.5                  | 2/24/2022 |
| NE Northgate Way, W/O 15th Ave NE*   | WB        | 25               | 37.2                  | 2/24/2022 |
| Ellis Ave S, S/O S Warsaw St*        | NB        | 25               | 36.6                  | 3/31/2022 |
| 4th Ave S, N/O S Dawson St           | NB        | 30               | 37.3                  | 10/1/2022 |
| Aurora Ave N, S/O N 112th St         | SB        | 35               | 37.1                  | 10/1/2022 |
| Greenwood Ave N, S/O N 145th St      | NB        | 30               | 37.1                  | 10/1/2022 |
| Sand Point Way NE, S/O NE 74th St    | SB        | 30               | 36.6                  | 10/1/2022 |
| Aurora Ave N, S/O N 112th St         | NB        | 35               | 36.5                  | 10/1/2022 |
| M L King Jr ER Way S, S/O S Holly St | NB        | 25               | 34.6                  | 10/1/2022 |
| M L King Jr ER Way S, S/O S Holly St | SB        | 25               | 34.2                  | 10/1/2022 |
| 24th Ave E, N/O E Prospect St        | SB        | 25               | 33.8                  | 10/1/2022 |
| Delridge Way SW, N/O SW Myrtle St    | SB        | 25               | 33.4                  | 10/1/2022 |
| 35th Ave SW, S/O SW Morgan St        | NB        | 25               | 33.0                  | 10/1/2022 |
| 35th Ave SW, S/O SW Morgan St        | SB        | 25               | 32.9                  | 10/1/2022 |
| Rainier Ave S, NW/O S Holly St       | NWB       | 25               | 32.7                  | 10/1/2022 |
| Pinehurst Way NE, NE/O NE 115th St*  | NEB       | 25               | 36.5                  | 2/24/2022 |
| Seaview Ave NW, N/O NW 67th St*      | NB        | 25               | 36.2                  | 3/30/2022 |
| NE 125th St, W/O 27th Ave NE*        | WB        | 25               | 35.4                  | 3/8/2022  |
| SW Avalon Way, N/O 30th Ave SW*      | NB        | 25               | 35.1                  | 3/3/2022  |
| 24th Ave E, N/O E Prospect St        | NB        | 25               | 32.6                  | 10/1/2022 |
| 1st Ave NE, S/O NE 145th St*         | NB        | 25               | 34.8                  | 3/8/2022  |
| Seaview Ave NW, N/O NW 67th St*      | SB        | 25               | 34.5                  | 3/30/2022 |
| 8th Ave S, S/O S Director St*        | NB        | 25               | 34.4                  | 3/25/2022 |
| Ellis Ave S, S/O S Warsaw St*        | SB        | 25               | 34.0                  | 3/31/2022 |

\*Tube-based data



| Location                                | Direction | 2022 Speed Limit | 85th Percentile Speed | Date      |
|---|-----------|------------------|-----------------------|-----------|
| N 105th St, W/O Evanston W Ave N        | WB        | 30               | 32.1                  | 10/1/2022 |
| Nickerson St, NW/O Florentia St         | NWB       | 25               | 31.8                  | 10/1/2022 |
| 1st Ave NE, S/O NE 145th St*            | SB        | 25               | 33.9                  | 3/8/2022  |
| NE 125th St, W/O 27th Ave NE*           | EB        | 25               | 33.5                  | 3/8/2022  |
| 31st Ave S, S/O S Jackson St*           | NB        | 25               | 33.1                  | 3/30/2022 |
| S Columbian Way, W/O Beacon WR Ave S*   | WB        | 25               | 33.1                  | 3/31/2022 |
| 8th Ave S, S/O S Director St*           | SB        | 25               | 32.9                  | 3/25/2022 |
| Greenwood Ave N, S/O Holman Rd N*       | SB        | 25               | 32.6                  | 8/24/2022 |
| N 105th St, W/O Evanston W Ave N        | EB        | 30               | 31.3                  | 10/1/2022 |
| SW Roxbury St, E/O 26th Ave SW          | WB        | 25               | 31.0                  | 10/1/2022 |
| S Spokane SR St, W/O 4th Ave S          | EB        | 25               | 31.0                  | 10/1/2022 |
| 31st Ave S, S/O S Jackson St*           | SB        | 25               | 32.4                  | 3/30/2022 |
| SW Avalon Way, N/O 30th Ave SW*         | SB        | 25               | 32.3                  | 3/3/2022  |
| S Columbian Way, W/O Beacon WR Ave S*   | EB        | 25               | 31.8                  | 3/31/2022 |
| 3rd Ave NW, S/O NW 145th St*            | NB        | 25               | 31.5                  | 3/24/2022 |
| 3rd Ave NW, S/O NW 145th St*            | SB        | 25               | 31.5                  | 3/24/2022 |
| Greenwood Ave N, S/O Holman Rd N*       | NB        | 25               | 31.3                  | 3/24/2022 |
| S Othello St, E/O 43rd Ave S*           | WB        | 25               | 31.2                  | 3/10/2022 |
| Fauntleroy Way SW, S/O SW Alaska St*    | SB        | 25               | 30.8                  | 3/24/2022 |
| NE 65th St, W/O 15th Ave NE*            | EB        | 25               | 30.7                  | 2/24/2022 |
| Beach Dr SW, SE/O 61st Ave SW*          | NWB       | 25               | 30.7                  | 3/3/2022  |
| SW Roxbury St, E/O 26th Ave SW          | EB        | 25               | 30.9                  | 10/1/2022 |
| Rainier Ave S, NW/O S Holly St          | SEB       | 25               | 30.6                  | 10/1/2022 |
| E Green Lake Dr N, NW/O Latona Ave NE*  | SEB       | 25               | 30.5                  | 3/10/2022 |
| 24th Ave NW, S/O NW 80th St*            | SB        | 25               | 30.5                  | 3/3/2022  |
| N 50th St, W/O 1st Ave NE               | WB        | 25               | 30.3                  | 10/1/2022 |
| Nickerson St, NW/O Florentia St         | SEB       | 25               | 30.2                  | 10/1/2022 |
| N 50th St, W/O 1st Ave NE               | EB        | 25               | 30.0                  | 10/1/2022 |
| 24th Ave NW, S/O NW 80th St*            | NB        | 25               | 30.3                  | 3/3/2022  |
| Fauntleroy Way SW, S/O SW Alaska St*    | NB        | 25               | 29.8                  | 3/24/2022 |
| N 46th St, W/O Phinney Ave N            | WB        | 25               | 29.8                  | 10/1/2022 |
| Roosevelt Way NE, N/O NE 50th St        | SB        | 25               | 29.4                  | 10/1/2022 |
| E Marginal Way S, N/O Alaskan Way VI NB | NB        | 25               | 29.0                  | 10/1/2022 |
| Mercer St, W/O Dexter Ave N             | WB        | 25               | 29.0                  | 10/1/2022 |
| S Othello St, E/O 43rd Ave S*           | EB        | 25               | 29.7                  | 3/10/2022 |

\*Tube-based data

| Location                                  | Direction | 2022 Speed Limit | 85th Percentile Speed | Date      |
|---|-----------|------------------|-----------------------|-----------|
| E Green Lake Dr N, NW/O Latona Ave NE*    | NWB       | 25               | 29.3                  | 3/10/2022 |
| S Lucile St, E/O 4th Ave S*               | EB        | 25               | 29.1                  | 3/10/2022 |
| Beach Dr SW, SE/O 61st Ave SW*            | SEB       | 25               | 28.9                  | 3/3/2022  |
| NE 65th St, W/O 15th Ave NE*              | WB        | 25               | 28.1                  | 2/24/2022 |
| Phinney Ave N, S/O N 65th St*             | NB        | 25               | 28.0                  | 3/3/2022  |
| Mercer St, W/O Dexter Ave N               | EB        | 25               | 28.7                  | 10/1/2022 |
| N 130th St, W/O Ashworth Ave N            | EB        | 25               | 26.9                  | 10/1/2022 |
| S Lucile St, E/O 4th Ave S*               | WB        | 25               | 27.0                  | 3/10/2022 |
| Phinney Ave N, S/O N 65th St*             | SB        | 25               | 26.9                  | 3/3/2022  |
| N 46th St, W/O Phinney Ave N              | EB        | 25               | 26.1                  | 10/1/2022 |
| Stone Way N, S/O N 45th St*               | SB        | 25               | 24.9                  | 3/3/2022  |
| Fremont Ave N, S/O N 46th St*             | SB        | 25               | 24.2                  | 3/10/2022 |
| E Madison St, SW/O Lake Washington Blvd E | SWB       | 25               | 25.7                  | 10/1/2022 |
| E Madison St, SW/O Lake Washington Blvd E | NEB       | 25               | 25.3                  | 10/1/2022 |
| Stone Way N, S/O N 45th St*               | NB        | 25               | 24.1                  | 3/3/2022  |
| Fremont Ave N, S/O N 46th St*             | NB        | 25               | 23.9                  | 3/10/2022 |
| 12th Ave NE, S/O NE 75th St               | NB        | 25               | 25.3                  | 10/1/2022 |
| Sand Point Way NE, S/O NE 74th St         | NB        | 30               | 25.0                  | 10/1/2022 |
| N 130th St, W/O Ashworth Ave N            | WB        | 25               | 23.9                  | 10/1/2022 |

\*Tube-based data



# Glossary

## TRAFFIC VOLUME TERMS

Source – William R. McShane and Roger P. Roess, *Traffic Engineering* (Englewood Cliffs, New Jersey: Prentice Hall, 1990) 49.

**ADT:** Average Daily Traffic. An average 24-hour traffic volume at a given location for some period less than a year.

**AWDT:** Average Weekday Daily Traffic. An average 24-hour traffic volume occurring on weekdays for some period of time less than one year, such as for a month or a season.

**AADT:** Average Annual Daily Traffic. The average 24-hour traffic volume at a given location over a full 365-day year.

## INJURY TYPES

Source – State of Washington Police Traffic Collision Report Instruction Manual and SDOT

**No Injury:** Applies when the officer at the scene has no reason to believe that, at the time of the collision, the person received any bodily harm due to the collision.

**Possible Injury:** Any injury reported to the officer or claimed by the individual such as momentary unconsciousness, claim of injuries not evident, limping, complaint of pain, nausea, hysteria, etc. These are counted as injuries when the total number of injuries is presented.

**Non Serious Injury (Evident Injury):** Any injury other than fatal or disabling at the scene, including broken fingers or toes, abrasions, etc.

**Serious Injury:** Any injury that results in at least a temporary impairment, e.g. a broken limb. It does not mean that the collision resulted in a permanent disability.

**Fatality:** This category includes persons who died at the scene of the collisions, were dead on arrival at the hospital, or died within 30 days of the collision from collision-related injuries.

**ROADWAY CLASSIFICATION TYPES** Source – City of Seattle Comprehensive Plan, Section 3.4 and SDOT

**Residential (Non-Arterial) Streets:** Roadways that provide localized traffic circulation, including access to neighborhood land uses, commercial and industrial land uses, and access to higher level traffic streets.

**Collector Arterials:** Roadways that collect and distribute traffic from principal and minor arterials to local access streets or provide direct access to destinations.

**Minor Arterials:** Roadways that distribute traffic from principal arterials to collector arterials and access streets.

**Principal Arterials:** Roadways that are intended to serve as the primary routes for moving traffic through the city, connecting urban centers and urban villages to one another, or to the regional transportation network.







This report is prepared in compliance with Seattle Municipal Code 11.16.220, which requires the City Traffic Engineer to present an annual traffic report that includes information about traffic trends and traffic collisions on City of Seattle streets. Beyond this legal requirement, the report strives to serve as an accessible reference of Seattle traffic data and trends for all.

In gathering and compiling the information in this report, the Seattle Department of Transportation does not waive the limitations on this information's discoverability or admissibility under 23 U.S.C § 409.

For additional information about traffic data and collisions on Seattle streets, readers may contact the City Traffic Engineer Venu Nemani at [venu.nemani@seattle.gov](mailto:venu.nemani@seattle.gov) or visit <http://data.seattle.gov>.

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Transportation