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RENEWS: 6/30/2022

Iseli Estates Subdivision Transportation Impact Study Clackamas County, Oregon

Date:
February 18, 2022

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Executive Summary

1. A 40-lot subdivision is proposed to be located at 14917 SE 142nd Avenue in Clackamas County, Oregon. The development will construct the western leg of SE 142nd Avenue at SE Wenzel Drive.
2. The proposed 40-lot development is estimated to generate a net total of 27 trips during the morning peak hour, 21 trips during the mid-day peak hour, and 36 trips during the evening peak hour.
3. No significant trends or crash patterns were identified at any of the study intersections that were indicative of safety concerns. Accordingly, no safety mitigation is recommended per the crash data analysis.
4. The minimum recommended intersection sight distance is available in either direction at the proposed site access location. Accordingly, no sight distance related mitigation is necessary or recommended.
5. Preliminary traffic signal warrants are not projected to be met at the site access intersection upon full buildout of the proposed development.
6. Left-turn lanes were not warranted at the site access intersection under the year 2024 buildout conditions.
7. All study intersections are currently operating acceptably per jurisdictional standards and are projected to continue operating acceptably through the 2024 site buildout year.

Project Description

Introduction

A 40-lot subdivision is proposed to be located at 14917 SE 142nd Avenue in Clackamas County, Oregon. The development will construct the western leg of the intersection of SE 142nd Avenue at SE Wenzel Drive.

Based on correspondence with Clackamas County and ODOT and each jurisdictions' requirements, the report conducts safety and capacity/level of service analyses at the following intersections:

1. SE Sunnyside Road at SE 142nd Avenue
2. SE 142nd Avenue at SE Wenzel Drive (Site Access)
3. Highway 224/212 at SE 142nd Avenue

The purpose of this study is to determine whether the transportation system within the vicinity of the site is capable of safely and efficiently supporting the existing and proposed uses, and to determine any mitigation that may be necessary to do so. Detailed information on traffic counts, trip generation calculations, safety analyses, and level of service calculations is included in the appendix to this report.

Location Description

The subject property is located west of SE 142nd Avenue, south of SE Charjan Street, and north of Highway 224/212. The proposed development will construct the fourth leg of the intersection of SE 142nd Avenue at SE Wenzel Drive. Figure 1 on the following page shows the site vicinity with the subject site highlighted in blue.

Vicinity Streets

The proposed development is expected to impact six roadways near the site. Table 1 provides a description of each vicinity roadway.



Figure 1: Vicinity Map

Table 1: Vicinity Roadway Descriptions

Street Name	Jurisdiction	Functional Classification	Cross-Section	Speed (MPH)	Curbs & Sidewalks	On-Street Parking	Bicycle Facilities
SE Sunnyside Road	Clackamas County	Major Arterial	5 lanes	40 mph posted	Both side	Not Permitted	Both sides
SE 142nd Avenue	Clackamas County	Minor Arterial	2-3 lanes	40 mph posted	Partial both sides	Partially Permitted	Partial both sides
Highway 224/212	ODOT	Statewide Highway	2-5 lanes	45 mph posted	Partial both sides	Not Permitted	Partial both sides
SE Wenzel Drive	Clackamas County	Local Street	2 lanes	25 mph statutory	Both Sides	Permitted	None

Study Intersections

Based on coordination with Clackamas County and ODOT staff, three intersections were identified for analysis. A summarized description of these study intersections, under their existing lane configurations, is provided in Table 2.

Table 2: Study Intersection Configurations

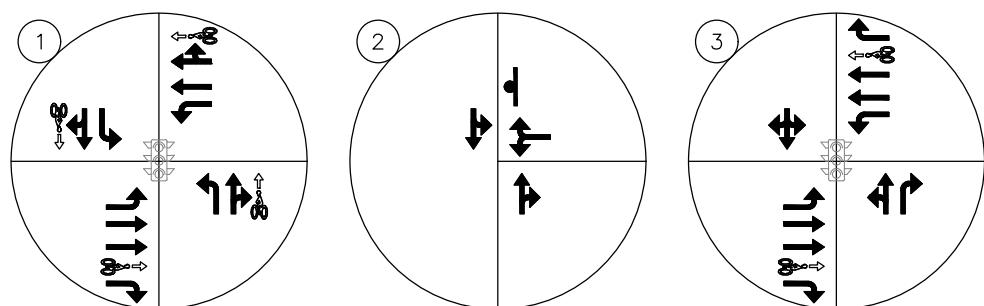
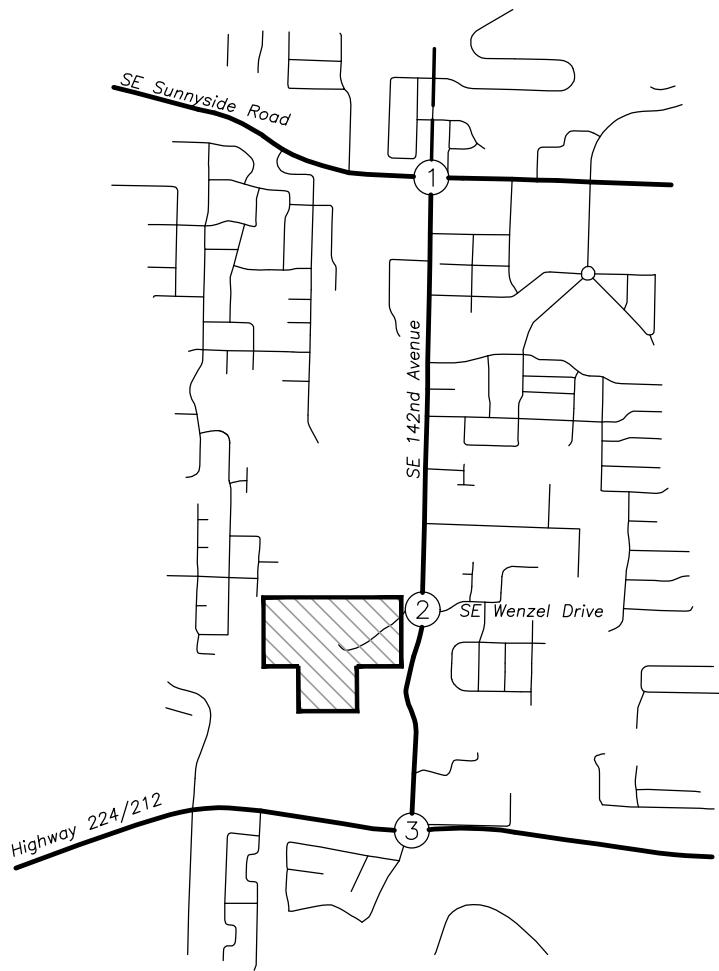
Intersection		Geometry	Traffic Control	Phasing/Stopped Approaches
1	SE Sunnyside Road at SE 142 nd Avenue	Four-Legged	Traffic Signal	Eastbound and Westbound Protected/Permissive Left-turns with FYA, Permitted Northbound and Southbound Left-turns
2	SE 142 nd Avenue at SE Wenzel Drive	Three-Legged	Stop-Controlled	Westbound Stop-Controlled
3	Highway 224/212 at SE 142 nd Avenue	Three-Legged	Traffic Signal	Eastbound and Westbound Protected/Permissive Left-turns with FYA, Permitted Northbound and Southbound Left-turns

FYA = Flashing Yellow Arrow

A vicinity map showing the project site, vicinity streets, and study intersection configurations is shown in Figure 2.

LEGEND

- (○) STUDY INTERSECTION
- (◐) STOP SIGN
- (Traffic light icon) TRAFFIC SIGNAL
- (Bike lane icon) BIKE LANE
- (Hatched square) PROJECT SITE
- (Solid line) ARTERIAL ROADWAY
- (Dashed line) COLLECTOR ROADWAY
- (Thin line) LOCAL ROADWAY



no scale

Site Trips

Trip Generation

To estimate the number of trips that will be generated by the development, data from the *Trip Generation Manual*¹ was referenced. Trip rates for Land-Use Code #210, Single Family Detached Housing, were used to estimate the trip generation for the existing and proposed development based on the number of lots. There are two existing single-family homes on the lot which will be removed in conjunction with the proposed development. The trip generation for the mid-day peak hour was estimated using the time-of-day distribution percentages provided in the ITE Manual appendix. For land use code 210, the peak hour between 11:00 AM and 1:00 PM, consistent with the mid-day peak hour in *Clackamas County Roadway Standards*, was shown to generate 5.7 percent of the 24-hour vehicle trips. The proposed 40-lot development is estimated to generate a net total of 27 trips during the morning peak hour, 21 trips during the mid-day peak hour, and 36 trips during the evening peak hour.

A summary of the trip generation is shown in Table 3.

Table 3: Trip Generation

ITE Code	Size	Morning Peak Hour			Mid-day Peak Hour			Evening Peak Hour			Daily Trips
		In	Out	Total	In	Out	Total	In	Out	Total	
210 (Existing)	2 lots	0	1	1	1	0	1	1	1	2	18
210 (Proposed)	40 lots	7	21	28	11	11	22	24	14	38	378
Total		7	20	27	10	11	21	23	13	36	360

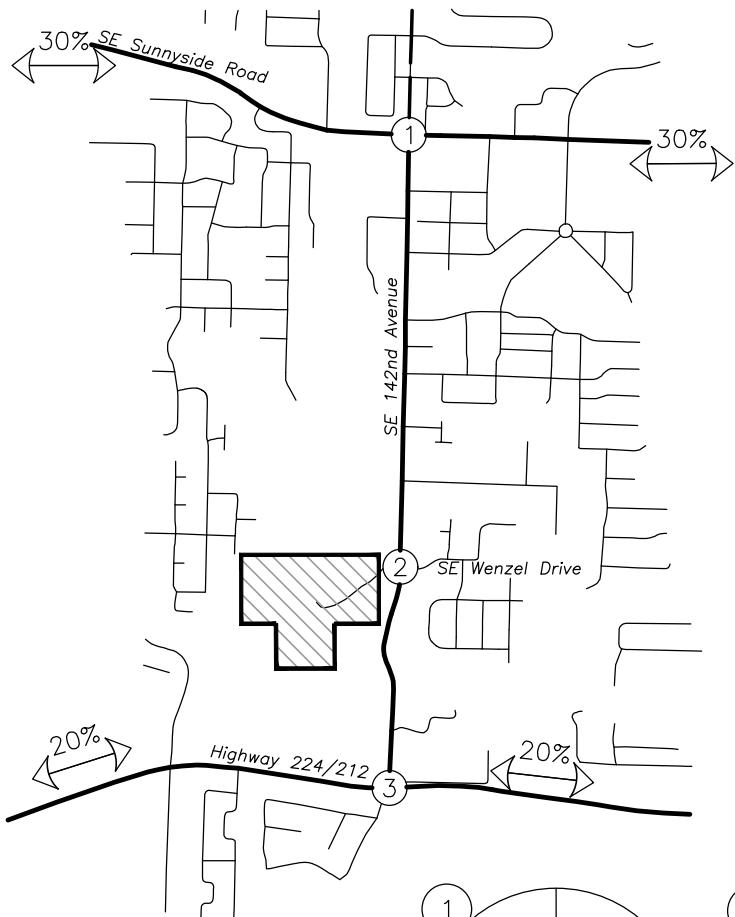
Trip Distribution

The project trip distribution was developed based on the 2018 traffic counts available on Clackamas County's Online Average Daily Traffic Counts GIS, and the existing roadway network facilities. The following trip distribution is projected:

- Approximately 30 percent of trips will travel to/from the east along SE Sunnyside Road;
- Approximately 30 percent of trips will travel to/from the west along SE Sunnyside Road;
- Approximately 20 percent of trips will travel to/from the west along OR-224; and
- Approximately 20 percent of trips will travel to/from the east along OR-224.

The trip distribution and assignment are shown in Figure 3.

¹Institute of Transportation Engineers (ITE), *Trip Generation Manual*, 11th Edition, 2021

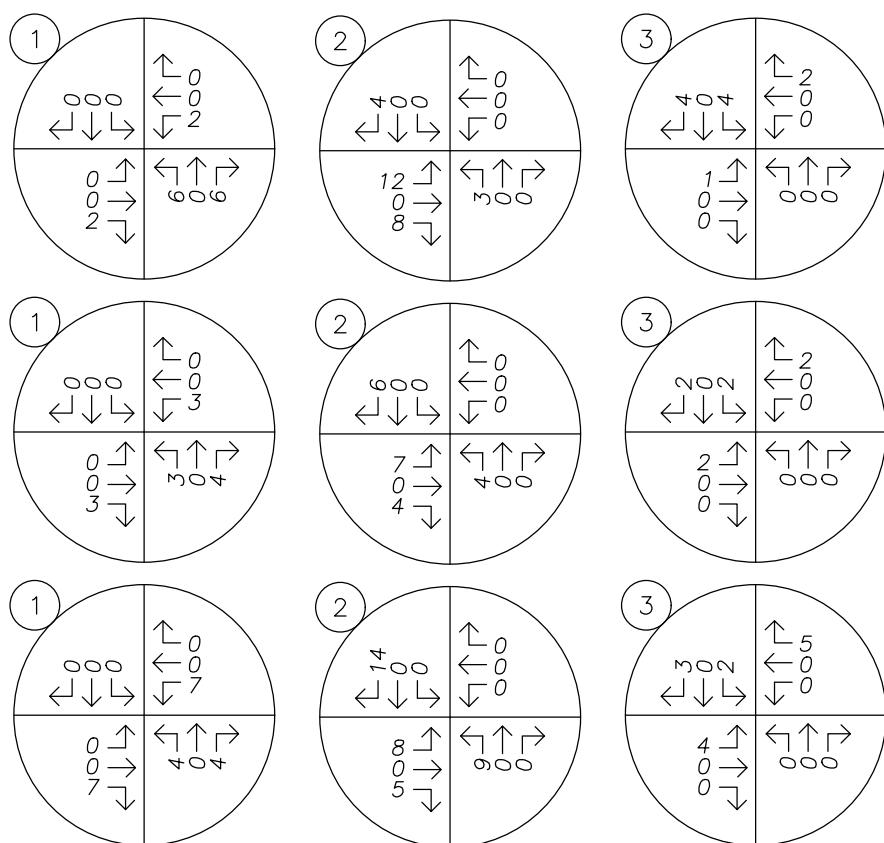


LEGEND

\longleftrightarrow XX% PERCENT OF PROJECT TRIPS

TRIP GENERATION			
	IN	OUT	TOTAL
AM	7	20	27
MD	10	11	21
PM	23	13	36

AM PEAK HOUR



no scale

SITE TRIP DISTRIBUTION & ASSIGNMENT

Proposed Development Plan - Site Trips
AM, MD, & PM Peak Hours

Traffic Volumes

Existing Conditions

The ongoing COVID-19 pandemic has affected traffic volumes throughout the state in various ways, depending on the current regulations and restrictions to businesses and schools. Through scoping conversations with Clackamas County, it was determined that historical 2018 traffic volumes available on the Clackamas County Online GIS application may not be accurate along SE 142nd Avenue. It was determined that existing volumes near the subject site are anticipated to be at or near pre-COVID levels and would be an accurate estimation of typical peak hour traffic volumes. Traffic counts at the intersections of SE 142nd Avenue at SE Wenzel Drive and SE 142nd Avenue at SE Sunnyside Road were collected on the following dates:

- Thursday, November 18, 2021
- Tuesday, November 16, 2021
- Wednesday, September 29, 2021

The project site is located within the Portland Metro UGB, but outside the Clackamas County regional Center designated area. Therefore, based on table 2-19 in the *Clackamas County Roadway Standards*, the traffic counts should be collected during the mid-day (between 11:00 AM and 1:00 PM) and evening (between 3:30 PM and 6:30 PM) peak hours.

Since Highway 224/212 is under ODOT jurisdiction, traffic volumes were seasonally adjusted to reflect the 30th highest hour of traffic, as per procedures described in ODOT's Analysis Procedures Manual (APM) 2. Using the ODOT's Seasonal Trend Table 3, a seasonal adjustment factor of 1.098 was calculated based on a Commuter seasonal trend and applied to the year 2021 traffic volumes. The adjustment factor was applied to through volumes on Highway 224/212. Traffic counts at the intersection of SE 142nd Avenue at Highway 224/212 were collected on the following date:

- Tuesday, November 16, 2021

Through scope of work coordination with ODOT, it was determined that the hours of analysis for the intersection of Highway 224/212 at SE 142nd Avenue would be the morning (between 7:00 AM and 9:00 AM) and evening (between 4:00 PM and 6:00 PM) peak hours.

Figure 4 on page 12 shows the year 2021 existing traffic volumes.

Background Conditions

To provide analysis of the impact of the proposed development on the existing transportation facilities, an estimation of future traffic volumes is required. A build-out condition of three years was assumed.

A growth rate for through traffic along Highway 224/212 was derived using ODOT's 2039 Future Volume Table in accordance with ODOT's APM. Using data corresponding to milepost 7.62 of ODOT highway number 171, an

² Oregon Department of Transportation, *Analysis Procedures Manual Version 2*. October 2020.

³ ODOT Seasonal Trend Table (Updated 7/20/2021)

average linear growth factor of 1.021 was calculated. For all other turning movements at the Highway 224/212 study intersection and for all city and county roads, a compounded growth rate of two percent per year was applied to the 2021 traffic volumes to approximate year 2024 background conditions.

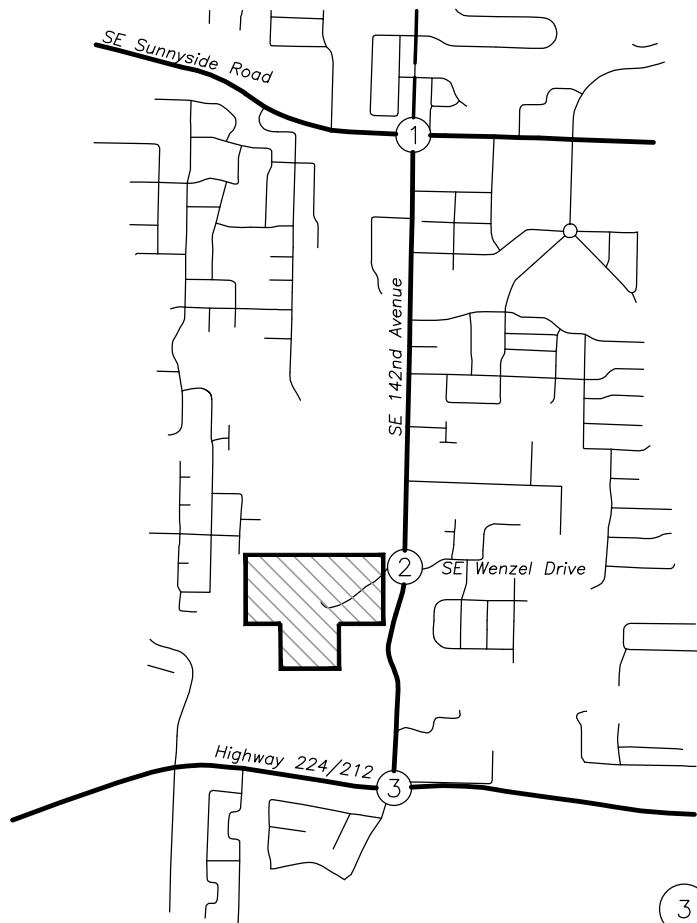
Clackamas County confirmed there were no in-process developments in the site vicinity which need to be accounted for in this report.

Figure 5 on page 13 shows the background traffic volumes.

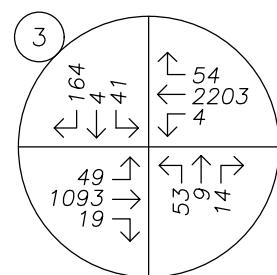
Buildout Conditions

Peak hour trips calculated to be generated by the proposed development, as described earlier within the *Site Trips* section, were added to the projected year 2024 background traffic volumes to obtain the expected 2024 site buildout volumes.

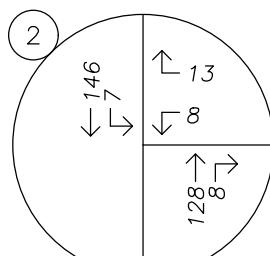
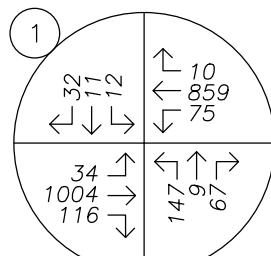
Figure 6 on page 14 shows the buildout traffic volumes at the study intersections.



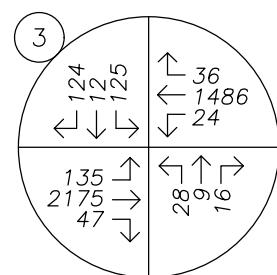
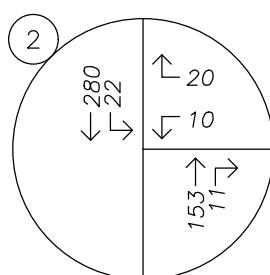
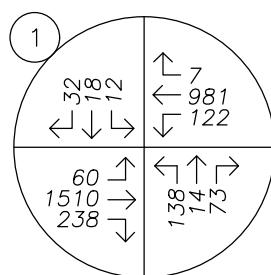
AM PEAK HOUR



MD PEAK HOUR



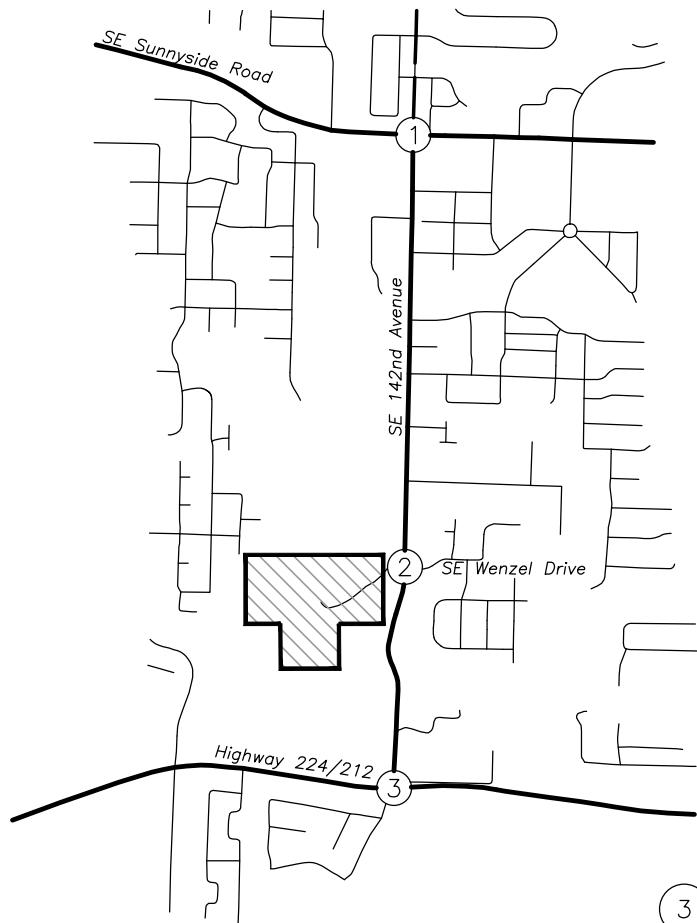
PM PEAK HOUR



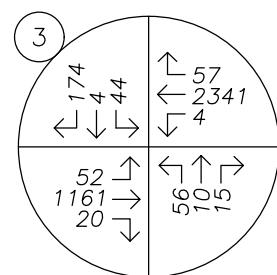
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TRAFFIC VOLUMES

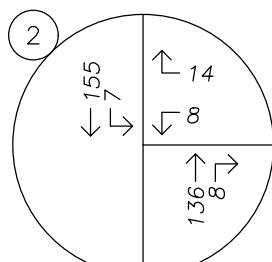
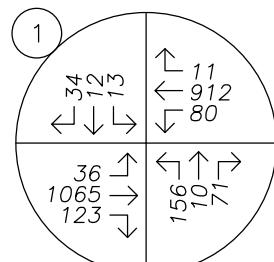
Year 2021 Existing Conditions
AM, MD, & PM Peak Hours



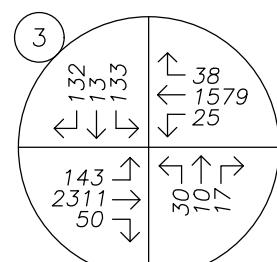
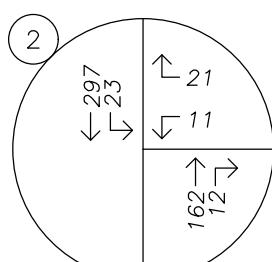
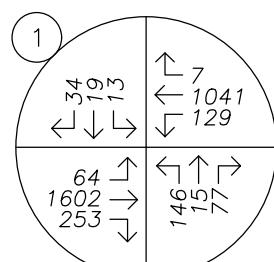
AM PEAK HOUR



MD PEAK HOUR



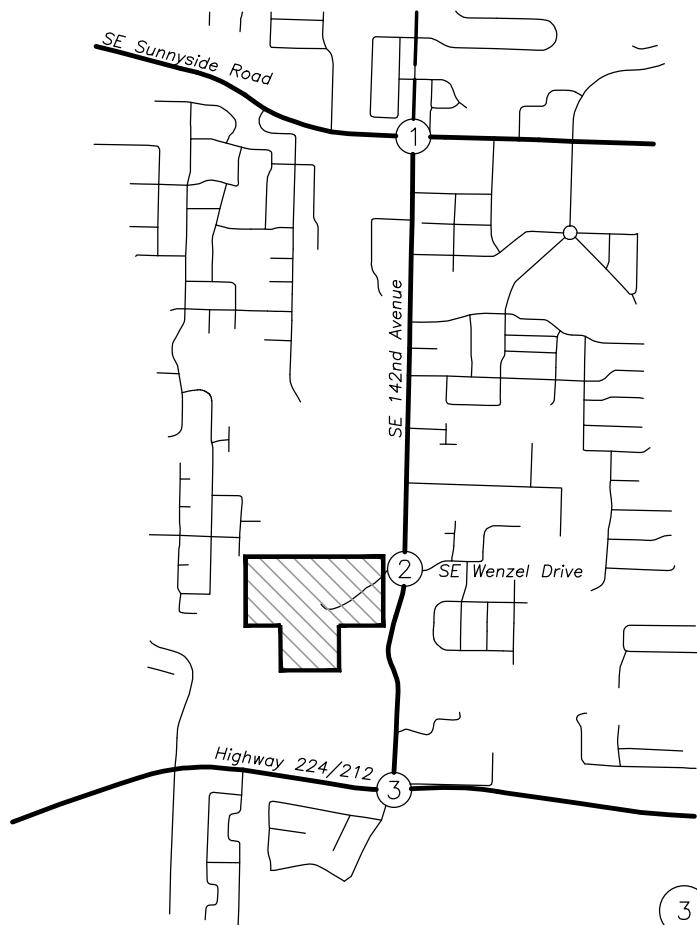
PM PEAK HOUR



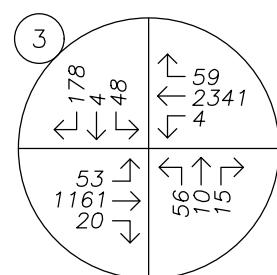
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TRAFFIC VOLUMES

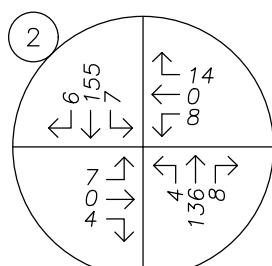
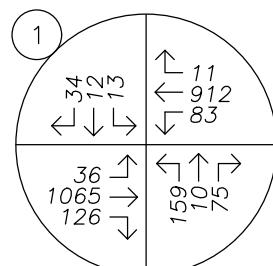
Year 2024 Background Conditions
AM, MD, & PM Peak Hours



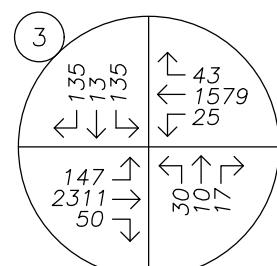
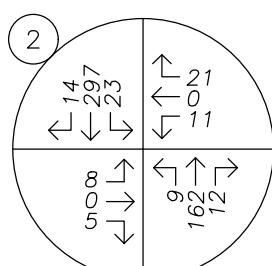
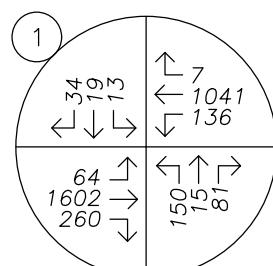
AM PEAK HOUR



MD PEAK HOUR



PM PEAK HOUR



no scale

TRAFFIC VOLUMES

Year 2024 Buildout Conditions
AM, MD, & PM Peak Hours

Safety Analysis

Crash History Review

Using data obtained from ODOT's Crash Data System, a review of approximately five years of the most recent available crash history (January 2015 through December 2019) was performed at the study intersections. The crash data was evaluated based on the number of crashes, the type of collisions, and the severity of the collisions. Crash severity is based on injuries sustained by people involved in the crash, and includes five categories:

- Property Damage Only (PDO)
- Possible Injury (Injury C)
- Non-Incapacitating Injury (Injury B)
- Incapacitating Injury (Injury A)
- Fatality or Fatal Injury

Crash rates provide the ability to compare safety risks at different intersections by accounting for both the number of crashes that have occurred during the study period and the number of vehicles that typically travel through the intersection. Crash rates were calculated using the common assumption that traffic counted during the evening peak period represents approximately 10 percent of the annual average daily traffic (AADT) at the intersection.

The study intersection along Highway 224/212 adhere to the crash analysis methodologies in ODOT's APM. According to *Exhibit 4-1: Intersection Crash Rates per MEV by Land Type and Traffic Control* of the APM, intersections which experience crash rates in excess of their respective 90th percentile crash rates should be "flagged for further analysis". For intersections in urban settings, the following average and 90th percentile rates are applicable to the study intersection:

- Signalized, Four-Legged Intersections:
 - Average rate of 0.477 CMEV.
 - 90th percentile rate of 0.860 CMEV.

Table 4 provides a summary of crash types while Table 5 summarizes crash severities and rates for each of the study intersections. Detailed crash data is provided in the appendix to this report.

Table 4: Crash Type Summary

Intersection		Crash Type								Total Crashes
		Turn	Rear End	Angle	Fixed Object	Side Swipe	Ped	Bike	Other	
1	SE Sunnyside Road at SE 142 nd Avenue	9	5	1	0	0	0	2	0	17
2	SE 142 nd Avenue at SE Wenzel Drive	1	0	0	1	0	0	0	0	2
3	Highway 224/212 at SE 142 nd Avenue	14	23	0	1	5	0	0	0	43

Table 5: Crash Severity and Rate Summary

Intersection		Severity					Total Crashes	Peak Hour Volume	Crash Rate
		PDO	C	B	A	Fatality			
1	SE Sunnyside Road at SE 142 nd Avenue	8	7	1	1	0	17	32,050	0.29
2	SE 142 nd Avenue at SE Wenzel Drive	1	1	0	0	0	2	4,960	0.22
3	Highway 224/212 at SE 142 nd Avenue	18	17	6	2	0	43	42,170	0.56

Crashes involving vulnerable users or were classified as Injury A are described further below.

SE Sunnyside Road at SE 142nd Avenue

Two bicycle collisions, one of which was classified as Injury A, were reported at the intersection. One of the bicycle related collisions occurred when the driver of a left-turning vehicle failed to yield to the right-of-way to the bicyclist. The cyclist sustained injuries classified as Injury B. The other bicycle related collision occurred when a left-turning cyclist disregarded the traffic signal and struck a motor vehicle. The cyclist sustained injuries classified as Injury A.

Highway 224/212 at SE 142nd Avenue

Two collisions at the intersection of the reported were classified as Injury A. One of the collisions occurred when the driver of an eastbound passenger car was driving too fast for conditions and rear-ended a motorcyclist. The driver of the motorcycle was stopped at the intersection waiting to make a left turn. The driver of the motorcycle sustained injuries classified as Injury A. The other collision occurred when the driver of a left-turning vehicle conducted an improper turn in front of oncoming traffic and collided with a westbound vehicle. The driver of the left-turning vehicle sustained injuries classified as Injury A.

Based on review of the most recent five years of available crash data, no significant trends or crash patterns were identified at any of study intersections that were indicative of safety concerns. In addition, none of the study intersections exhibit crash rates near or above the 1.0 CMEV threshold nor does the study intersection on Highway 224/212 have a crash rate exceeding ODOT's 90th percentile rate. Accordingly, no safety mitigation is recommended per crash data analysis.

Sight Distance Evaluation

Sight distance was measured and evaluated at the proposed site access intersection in accordance with the standards established in *A Policy of Geometric Design of Highways and Streets*⁴ as well as per the *Clackamas County Roadway Standards*. According to AASHTO, the driver's eye is assumed to be 14.5 feet from the near edge of the nearest travel lane of the intersecting street and at a height of 3.5 feet above the minor-street approach pavement. The vehicle driver's eye height along the major-street approach is assumed to be 3.5 feet above the cross-street pavement. Per the *Clackamas County Roadway Standards*, the design speed of a roadway is assumed to be either the intended/posted regulatory speed, the measured 85th percentile speed of traffic, or if in the vicinity of a horizontal curve, the posted advisory speed plus 10 mph (per *Section 250.1.2 Design Speed*).

Based on the posted speed limit of 40 mph on SE 142nd Avenue, the minimum recommended intersection sight distance to the south of the access is 445 feet (for left-turn site egress vehicles) and 385 feet to the north (for right-turn site egress vehicles).

A sight distance exhibit depicting the sight lines and future intersection improvements is attached in the technical appendix. Sight distance was measured to be in excess of 450 feet to the north and to the south.

Warrant Analysis

Preliminary Traffic Signal Warrant Analysis

Traffic signal warrants were examined for the site access intersection based on the methodologies in the Manual on Uniform Traffic Control Devices (MUTCD) published by the Federal Highway Administration in 2009. Volumes were used from the year 2024 buildout conditions. Warrant 1, Eight Hour Vehicular Volumes, was evaluated based on the common assumption that traffic counted during the evening peak hour represents ten percent of the ADT. Detailed information on the traffic signal warrant analysis is included in the attached appendix.

Preliminary traffic signal warrants are not projected to be met at the site access intersection upon full buildout of the proposed development.

Left-Turn Lane Warrants

A left-turn refuge lane is primarily a safety consideration for the major-street, removing left-turning vehicles from the through traffic stream. The left-turn lane warrants were examined using methodologies provided within the National Cooperative Highway Research Program's (NCHRP) Report 457. Turn lane warrants were evaluated based on the number of advancing and opposing vehicles as well as the number of turning vehicles, the travel speed, and the number of through lanes.

Left-turn lanes were not warranted at the site access intersection under the year 2024 buildout conditions.

⁴ American Association of State Highway and Transportation Officials (AASHTO), *A Policy on Geometric Design of Highways and Streets*, 6th Edition, 2011.

Operational Analysis

Intersection Capacity Analysis

A capacity and delay analysis were conducted for each of the study intersections per the signalized and unsignalized intersection analysis methodologies in the *Highway Capacity Manual* (HCM)⁵. Intersections are generally evaluated based on the average control delay experienced by vehicles and are assigned a grade according to their operation. The level of service (LOS) of an intersection can range from LOS A, which indicates very little, or no delay experienced by vehicles, to LOS F, which indicates a high degree of congestion and delay. The volume-to-capacity (V/C) ratio is a measure that compares the traffic volumes (demand) against the available capacity of an intersection.

Performance Standards

The operating standards adopted by the Clackamas County and ODOT are summarized below.

Clackamas County

According to the *Clackamas County Comprehensive Plan, Chapter 5 Transportation System Plan and Map 4-8*, the following operational standard applies to intersections located within urban areas which are designated as neighborhood areas:

- Maximum V/C ratio of 0.99 for the 1st hour, PM Peak
- Maximum V/C ratio of 0.99 for the mid-day one-hour peak

ODOT

ODOT's operating mobility target for intersections along OR 212/224 is v/c ratio at or below 0.99 during the peak first and second hours.

Delay & Capacity Analysis

The LOS, delay, and v/c results of the capacity analysis are shown in Table 6 and Table 7. Detailed calculations as well as tables showing the relationship between delay and LOS are included in the appendix to this report.

⁵ Transportation Research Board, *Highway Capacity Manual 6th Edition*, 2016.

Table 6: Capacity Analysis Summary – Clackamas County

Intersection & Condition	MD Peak Hour			PM Peak Hour		
	LOS	Delay (s)	V/C	LOS	Delay (s)	V/C
1. SE Sunnyside Road at SE 142nd Avenue						
2021 Existing Conditions	B	11	0.68	B	13	0.78
2024 Background Conditions	B	12	0.72	B	14	0.83
2024 Buildout Conditions	B	12	0.72	B	14	0.84
2. SE 142nd Avenue at SE Wenzel Drive						
2021 Existing Conditions	A	10	0.03	B	10	0.05
2024 Background Conditions	A	10	0.03	B	11	0.05
2024 Buildout Conditions	B	11	0.04	B	13	0.06

Table 7: Capacity Analysis Summary - ODOT

Intersection & Condition	AM Peak Hour			PM Peak Hour		
	LOS	Delay (s)	V/C	LOS	Delay (s)	V/C
3. Highway 224/212 at SE 142nd Avenue						
2021 Existing Conditions	B	19	0.91	B	20	0.73
2024 Background Conditions	B	19	0.91	C	26	0.78
2024 Buildout Conditions	B	19	0.92	C	26	0.79

Based on the results of the operational analysis, all study intersections are currently operating acceptably per jurisdictional standards and are projected to continue operating acceptably through the 2024 site buildout year. No operational mitigation is necessary or recommended at these intersections.

Conclusions

Key findings include:

- No significant trends or crash patterns were identified at any of the study intersections that were indicative of safety concerns. Accordingly, no safety mitigation is recommended per the crash data analysis.
- The minimum recommended intersection sight distance is available in either direction at the proposed site access location. Accordingly, no sight distance related mitigation is necessary or recommended.
- Preliminary traffic signal warrants are not projected to be met at any of the study intersections upon full buildout of the proposed development.
- Left-turn lanes were not warranted at the site access intersection under the year 2024 buildout conditions.
- All study intersections are currently operating acceptably per jurisdictional standards and are projected to continue operating acceptably through the 2024 site buildout year.

Appendix A – Site Data

Site Plan

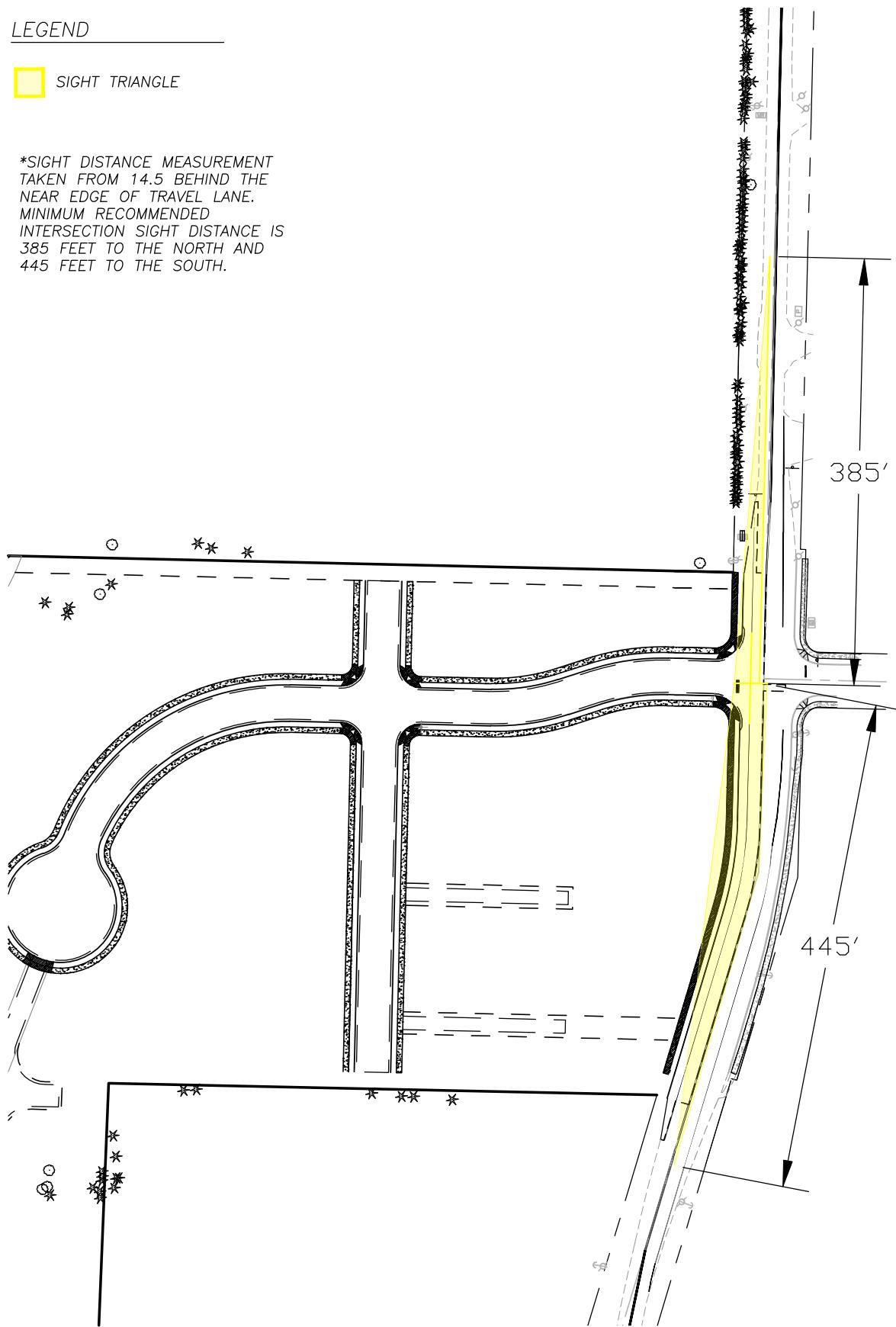
Sight Distance Figure

Trip Generation Calculations

LEGEND



*SIGHT DISTANCE MEASUREMENT
TAKEN FROM 14.5 FEET BEHIND THE
NEAR EDGE OF TRAVEL LANE.
MINIMUM RECOMMENDED
INTERSECTION SIGHT DISTANCE IS
385 FEET TO THE NORTH AND
445 FEET TO THE SOUTH.



no scale



TRIP GENERATION CALCULATIONS

Source: Trip Generation Manual, 11th Edition

Land Use: Single-Family Detached Housing

Land Use Code: 210

Land Use Subcategory: All Sites

Setting/Location: General Urban/Suburban

Variable: Dwelling Units

Trip Type: Vehicle

Variable Quantity: 2

WARNING: Variable Quantity is less than Minimum Survey Size for Peak Hours

AM PEAK HOUR

PM PEAK HOUR

Trip Rate: 0.7

Trip Rate: 0.94

	Enter	Exit	Total
Directional Split	26%	74%	
Trip Ends	0	1	1

	Enter	Exit	Total
Directional Split	63%	37%	
Trip Ends	1	1	2

WEEKDAY

SATURDAY

Trip Rate: 9.43

Trip Rate: 9.48

	Enter	Exit	Total
Directional Split	50%	50%	
Trip Ends	9	9	18

	Enter	Exit	Total
Directional Split	50%	50%	
Trip Ends	9	9	18



TRIP GENERATION CALCULATIONS

Source: Trip Generation Manual, 11th Edition

Land Use: Single-Family Detached Housing

Land Use Code: 210

Land Use Subcategory: All Sites

Setting/Location: General Urban/Suburban

Variable: Dwelling Units

Trip Type: Vehicle

Variable Quantity: **40**

AM PEAK HOUR

PM PEAK HOUR

Trip Rate: 0.7

Trip Rate: 0.94

	Enter	Exit	Total
Directional Split	26%	74%	
Trip Ends	7	21	28

	Enter	Exit	Total
Directional Split	63%	37%	
Trip Ends	24	14	38

WEEKDAY

Trip Rate: 9.43

	Enter	Exit	Total
Directional Split	50%	50%	
Trip Ends	189	189	378

SATURDAY

Trip Rate: 9.48

	Enter	Exit	Total
Directional Split	50%	50%	
Trip Ends	190	190	380

Appendix B – Traffic Data

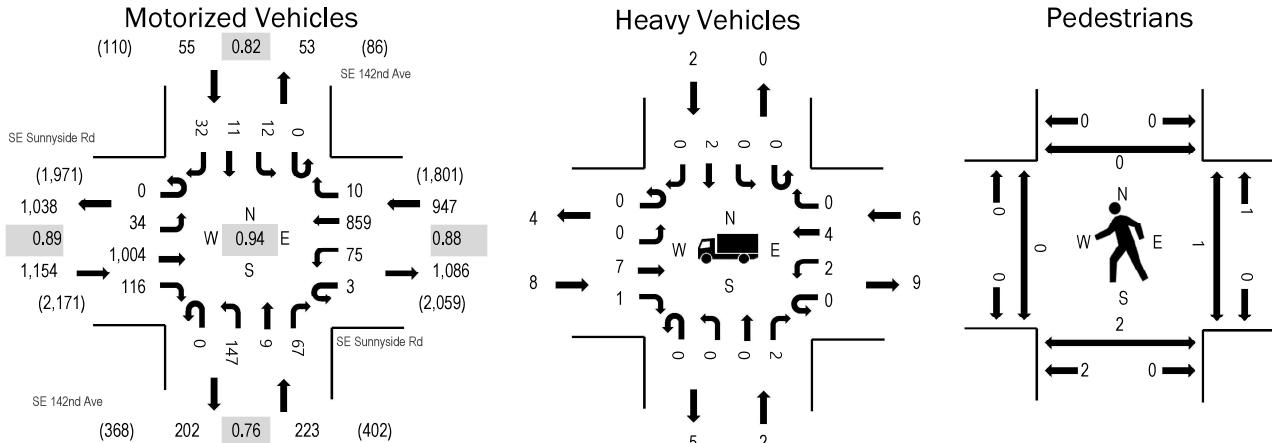
Traffic Counts

Location: 1 SE 142nd Ave & SE Sunnyside Rd Noon

Date: Tuesday, November 16, 2021

Peak Hour: 12:00 PM - 01:00 PM

Peak 15-Minutes: 12:10 PM - 12:25 PM

Peak Hour


Note: Total study counts contained in parentheses.

	HV%	PHF
EB	0.7%	0.89
WB	0.6%	0.88
NB	0.9%	0.76
SB	3.6%	0.82
All	0.8%	0.94

Traffic Counts - Motorized Vehicles

Interval Start Time	SE Sunnyside Rd				SE 142nd Ave				SE 142nd Ave				Total	Rolling Hour				
	Eastbound		Westbound		Northbound		Southbound											
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right						
11:00 AM	0	2	74	8	0	2	68	0	0	11	0	5	0	176	2,105			
11:05 AM	0	1	62	7	0	7	73	0	0	6	0	3	0	1	4	165	2,130	
11:10 AM	0	5	85	8	0	11	67	0	0	7	1	5	0	0	1	2	192	2,151
11:15 AM	0	4	55	11	0	7	58	0	0	11	0	1	0	1	1	4	153	2,192
11:20 AM	0	1	78	7	0	9	72	2	0	6	0	3	0	0	2	4	184	2,239
11:25 AM	0	1	71	8	0	3	60	0	0	6	0	4	0	0	0	0	153	2,252
11:30 AM	0	1	75	4	0	6	67	1	0	14	0	16	0	0	2	3	189	2,307
11:35 AM	0	1	64	8	1	1	66	1	0	14	0	8	0	1	0	6	171	2,302
11:40 AM	0	2	98	10	0	0	62	1	0	7	0	8	0	1	0	1	190	2,329
11:45 AM	0	2	79	6	0	6	68	1	0	9	1	2	0	0	1	4	179	2,317
11:50 AM	0	3	83	9	0	6	56	0	0	7	0	7	0	1	2	2	176	2,346
11:55 AM	0	1	77	6	1	4	66	1	0	14	0	3	0	0	0	4	177	2,349
12:00 PM	0	2	88	9	0	11	69	2	0	11	1	2	0	5	0	1	201	2,379
12:05 PM	0	3	75	10	1	6	68	1	0	9	0	6	0	0	3	4	186	
12:10 PM	0	4	121	17	0	6	67	0	0	8	0	7	0	0	1	2	233	
12:15 PM	0	4	80	8	0	1	86	1	0	13	0	5	0	0	0	2	200	
12:20 PM	0	1	70	8	0	8	84	1	0	13	1	5	0	1	0	5	197	
12:25 PM	0	3	94	8	0	6	82	0	0	8	3	2	0	0	2	0	208	
12:30 PM	0	1	91	9	1	7	57	0	0	10	0	5	0	1	1	1	184	
12:35 PM	0	5	70	8	0	3	82	3	0	13	1	7	0	1	1	4	198	
12:40 PM	0	5	76	9	0	4	61	0	0	13	1	6	0	0	1	2	178	
12:45 PM	0	2	88	16	0	8	64	1	0	17	1	4	0	2	1	4	208	
12:50 PM	0	2	58	9	1	6	65	1	0	20	1	10	0	2	1	3	179	
12:55 PM	0	2	93	5	0	9	74	0	0	12	0	8	0	0	0	4	207	
Count Total	0	58	1,905	208	5	137	1,642	17	0	259	11	132	0	17	23	70	4,484	
Peak Hour	0	34	1,004	116	3	75	859	10	0	147	9	67	0	12	11	32	2,379	

Location: 1 SE 142nd Ave & SE Sunnyside Rd Noon

Traffic Counts - Heavy Vehicles, Bicycles on Road, and Pedestrians/Bicycles on Crosswalk

Interval Start Time	Heavy Vehicles					Interval Start Time	Bicycles on Roadway				Interval Start Time	Pedestrians/Bicycles on Crosswalk					
	EB	NB	WB	SB	Total		EB	NB	WB	SB		EB	NB	WB	SB	Total	
11:00 AM	1	0	1	0	2	11:00 AM	0	0	0	0	0	11:00 AM	0	2	2	0	4
11:05 AM	2	1	1	0	4	11:05 AM	0	0	0	0	0	11:05 AM	0	0	0	0	0
11:10 AM	0	0	0	0	0	11:10 AM	0	0	0	0	0	11:10 AM	0	0	0	0	0
11:15 AM	1	0	1	0	2	11:15 AM	0	0	0	0	0	11:15 AM	0	0	0	0	0
11:20 AM	1	0	2	0	3	11:20 AM	0	0	0	0	0	11:20 AM	0	0	0	0	0
11:25 AM	0	0	0	0	0	11:25 AM	0	0	0	0	0	11:25 AM	0	0	0	0	0
11:30 AM	0	0	1	0	1	11:30 AM	0	0	0	0	0	11:30 AM	0	1	0	0	1
11:35 AM	1	0	0	0	1	11:35 AM	0	0	0	0	0	11:35 AM	0	0	0	0	0
11:40 AM	0	0	1	0	1	11:40 AM	0	0	0	0	0	11:40 AM	0	0	0	0	0
11:45 AM	0	0	0	0	0	11:45 AM	0	0	0	0	0	11:45 AM	2	2	0	0	4
11:50 AM	1	0	3	0	4	11:50 AM	0	0	0	0	0	11:50 AM	0	0	0	0	0
11:55 AM	1	0	1	0	2	11:55 AM	0	0	0	0	0	11:55 AM	0	0	0	0	0
12:00 PM	0	0	0	0	0	12:00 PM	0	0	0	0	0	12:00 PM	0	0	0	0	0
12:05 PM	0	0	0	1	1	12:05 PM	0	0	0	0	0	12:05 PM	0	0	0	0	0
12:10 PM	1	0	0	0	1	12:10 PM	0	0	0	0	0	12:10 PM	0	0	0	0	0
12:15 PM	2	0	0	0	2	12:15 PM	0	0	0	0	0	12:15 PM	0	0	0	0	0
12:20 PM	1	1	0	0	2	12:20 PM	0	0	0	0	0	12:20 PM	0	0	0	0	0
12:25 PM	0	0	1	0	1	12:25 PM	0	0	0	0	0	12:25 PM	0	1	0	0	1
12:30 PM	1	0	2	1	4	12:30 PM	0	0	0	0	0	12:30 PM	0	0	0	0	0
12:35 PM	1	0	0	0	1	12:35 PM	0	0	0	0	0	12:35 PM	0	0	0	0	0
12:40 PM	1	1	0	0	2	12:40 PM	0	0	0	0	0	12:40 PM	0	0	1	0	1
12:45 PM	1	0	1	0	2	12:45 PM	0	0	0	0	0	12:45 PM	0	0	0	0	0
12:50 PM	0	0	0	0	0	12:50 PM	0	0	0	0	0	12:50 PM	0	0	0	0	0
12:55 PM	0	0	2	0	2	12:55 PM	0	0	0	0	0	12:55 PM	0	1	0	0	1
Count Total	16	3	17	2	38	Count Total	0	0	0	0	0	Count Total	2	7	3	0	12
Peak Hour	8	2	6	2	18	Peak Hour	0	0	0	0	0	Peak Hour	0	2	1	0	3

Location: 2 SE 142nd Ave & SE Wenzel Dr Noon



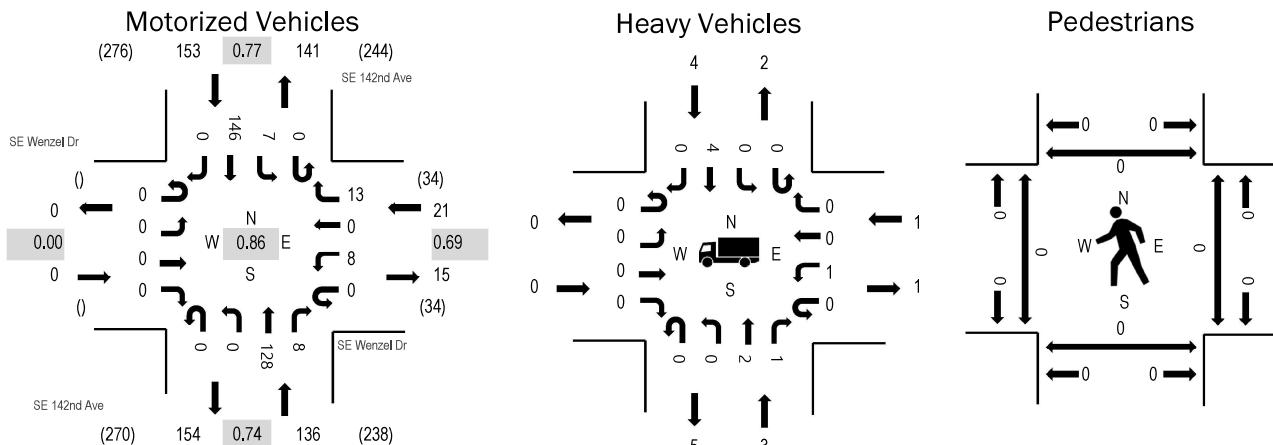
Location: 2 SE 142nd Ave & SE Wenzel Dr Noon

Date: Tuesday, November 16, 2021

Peak Hour: 12:00 PM - 01:00 PM

Peak 15-Minutes: 12:45 PM - 01:00 PM

Peak Hour



Note: Total study counts contained in parentheses.

	HV%	PHF
EB	0.0%	0.00
WB	4.8%	0.69
NB	2.2%	0.74
SB	2.6%	0.77
All	2.6%	0.86

Traffic Counts - Motorized Vehicles

Interval Start Time	SE Wenzel Dr Eastbound				SE Wenzel Dr Westbound				SE 142nd Ave Northbound				SE 142nd Ave Southbound				Total	Rolling Hour	
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right			
11:00 AM	0	0	0	0	0	0	0	0	0	0	3	1	0	1	5	0	10	238	
11:05 AM	0	0	0	0	0	0	0	0	0	0	10	1	0	0	9	0	20	250	
11:10 AM	0	0	0	0	0	1	0	0	0	0	4	0	0	0	3	11	0	19	259
11:15 AM	0	0	0	0	0	0	0	0	0	0	6	1	0	0	13	0	20	271	
11:20 AM	0	0	0	0	0	2	0	0	0	0	8	1	0	0	12	0	23	275	
11:25 AM	0	0	0	0	0	0	0	0	0	0	9	0	0	1	11	0	21	275	
11:30 AM	0	0	0	0	0	0	0	2	0	0	12	1	0	0	8	0	23	273	
11:35 AM	0	0	0	0	0	1	0	1	0	0	14	1	0	0	9	0	29	280	
11:40 AM	0	0	0	0	0	1	0	3	0	0	4	0	0	0	2	8	0	18	272
11:45 AM	0	0	0	0	0	0	0	0	0	0	7	0	0	0	12	0	19	275	
11:50 AM	0	0	0	0	0	0	0	0	0	0	13	1	0	1	8	0	23	290	
11:55 AM	0	0	0	0	0	0	0	2	0	0	5	0	0	1	5	0	13	298	
12:00 PM	0	0	0	0	0	1	0	0	0	0	8	0	0	1	12	0	22	310	
12:05 PM	0	0	0	0	0	1	0	0	0	0	7	0	0	1	20	0	29		
12:10 PM	0	0	0	0	0	2	0	3	0	0	9	1	0	2	14	0	31		
12:15 PM	0	0	0	0	0	0	0	1	0	0	11	2	0	1	9	0	24		
12:20 PM	0	0	0	0	0	1	0	1	0	0	7	0	0	0	14	0	23		
12:25 PM	0	0	0	0	0	0	0	1	0	0	6	1	0	0	11	0	19		
12:30 PM	0	0	0	0	0	0	0	2	0	0	14	0	0	0	14	0	30		
12:35 PM	0	0	0	0	0	0	0	1	0	0	12	2	0	0	6	0	21		
12:40 PM	0	0	0	0	0	0	0	1	0	0	15	1	0	0	4	0	21		
12:45 PM	0	0	0	0	0	2	0	2	0	0	13	0	0	2	15	0	34		
12:50 PM	0	0	0	0	0	0	0	1	0	0	16	1	0	0	13	0	31		
12:55 PM	0	0	0	0	0	1	0	0	0	0	10	0	0	0	14	0	25		
Count Total	0	0	0	0	0	13	0	21	0	0	223	15	0	19	257	0	548		
Peak Hour	0	0	0	0	0	8	0	13	0	0	128	8	0	7	146	0	310		

Location: 2 SE 142nd Ave & SE Wenzel Dr Noon

Traffic Counts - Heavy Vehicles, Bicycles on Road, and Pedestrians/Bicycles on Crosswalk

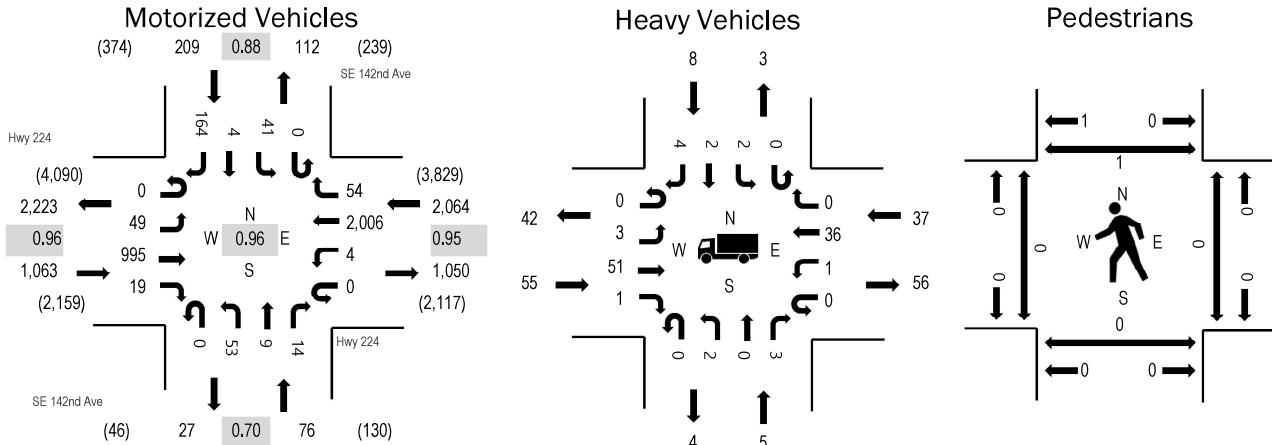
Interval Start Time	Heavy Vehicles					Interval Start Time	Bicycles on Roadway					Interval Start Time	Pedestrians/Bicycles on Crosswalk				
	EB	NB	WB	SB	Total		EB	NB	WB	SB	Total		EB	NB	WB	SB	Total
11:00 AM	0	0	0	0	0	11:00 AM	0	0	0	0	0	11:00 AM	0	0	0	0	0
11:05 AM	0	1	0	1	2	11:05 AM	0	0	0	0	0	11:05 AM	0	0	0	0	0
11:10 AM	0	0	0	0	0	11:10 AM	0	0	0	0	0	11:10 AM	0	0	0	0	0
11:15 AM	0	0	0	0	0	11:15 AM	0	0	0	0	0	11:15 AM	0	0	0	0	0
11:20 AM	0	0	0	0	0	11:20 AM	0	0	0	0	0	11:20 AM	0	0	0	0	0
11:25 AM	0	0	0	0	0	11:25 AM	0	0	0	0	0	11:25 AM	0	0	0	0	0
11:30 AM	0	0	0	0	0	11:30 AM	0	0	0	0	0	11:30 AM	0	0	0	0	0
11:35 AM	0	1	0	0	1	11:35 AM	0	0	0	0	0	11:35 AM	0	0	0	0	0
11:40 AM	0	0	0	0	0	11:40 AM	0	0	0	0	0	11:40 AM	0	0	0	0	0
11:45 AM	0	0	0	0	0	11:45 AM	0	0	0	0	0	11:45 AM	0	0	0	0	0
11:50 AM	0	0	0	0	0	11:50 AM	0	0	0	0	0	11:50 AM	0	0	0	0	0
11:55 AM	0	0	0	0	0	11:55 AM	0	0	0	0	0	11:55 AM	0	0	0	0	0
12:00 PM	0	0	0	0	0	12:00 PM	0	0	0	0	0	12:00 PM	0	0	0	0	0
12:05 PM	0	0	0	1	1	12:05 PM	0	0	0	0	0	12:05 PM	0	0	0	0	0
12:10 PM	0	0	0	0	0	12:10 PM	0	0	0	0	0	12:10 PM	0	0	0	0	0
12:15 PM	0	1	0	0	1	12:15 PM	0	0	0	0	0	12:15 PM	0	0	0	0	0
12:20 PM	0	1	1	0	2	12:20 PM	0	0	0	0	0	12:20 PM	0	0	0	0	0
12:25 PM	0	0	0	1	1	12:25 PM	0	0	0	0	0	12:25 PM	0	0	0	0	0
12:30 PM	0	0	0	1	1	12:30 PM	0	0	0	0	0	12:30 PM	0	0	0	0	0
12:35 PM	0	0	0	0	0	12:35 PM	0	0	0	0	0	12:35 PM	0	0	0	0	0
12:40 PM	0	1	0	0	1	12:40 PM	0	0	0	0	0	12:40 PM	0	0	0	0	0
12:45 PM	0	0	0	0	0	12:45 PM	0	0	0	0	0	12:45 PM	0	0	0	0	0
12:50 PM	0	0	0	0	0	12:50 PM	0	0	0	0	0	12:50 PM	0	0	0	0	0
12:55 PM	0	0	0	1	1	12:55 PM	0	0	0	0	0	12:55 PM	0	0	0	0	0
Count Total	0	5	1	5	11	Count Total	0	0	0	0	0	Count Total	0	0	0	0	0
Peak Hour	0	3	1	4	8	Peak Hour	0	0	0	0	0	Peak Hour	0	0	0	0	0

Location: 3 SE 142nd Ave & Hwy 224 AM

Date: Tuesday, November 16, 2021

Peak Hour: 07:10 AM - 08:10 AM

Peak 15-Minutes: 07:50 AM - 08:05 AM

Peak Hour


Note: Total study counts contained in parentheses.

	HV%	PHF
EB	5.2%	0.96
WB	1.8%	0.95
NB	6.6%	0.70
SB	3.8%	0.88
All	3.1%	0.96

Traffic Counts - Motorized Vehicles

Interval Start Time	Hwy 224 Eastbound				Hwy 224 Westbound				SE 142nd Ave Northbound				SE 142nd Ave Southbound				Total	Rolling Hour	
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right			
7:00 AM	0	9	73	2	0	0	147	3	0	2	2	1	0	1	0	9	249	3,355	
7:05 AM	0	3	68	1	0	1	175	0	0	5	1	2	0	0	0	0	11	267	3,396
7:10 AM	0	4	82	1	0	0	172	5	0	2	1	2	0	4	0	16	289	3,412	
7:15 AM	0	2	85	1	0	0	157	4	0	6	0	1	0	3	1	5	265	3,382	
7:20 AM	0	2	79	0	0	1	175	0	0	4	0	2	0	1	0	8	272	3,401	
7:25 AM	0	5	78	2	0	1	187	5	0	8	2	0	0	2	0	17	307	3,402	
7:30 AM	0	2	69	1	0	0	166	5	0	7	0	0	0	2	0	12	264	3,336	
7:35 AM	0	4	81	2	0	0	177	5	0	0	1	0	0	2	1	13	286	3,360	
7:40 AM	0	6	95	3	0	1	154	3	0	2	0	3	0	1	0	9	277	3,340	
7:45 AM	0	5	76	2	0	0	162	5	0	7	0	0	0	7	1	16	281	3,342	
7:50 AM	0	3	86	1	0	1	172	3	0	0	0	1	0	5	0	17	289	3,322	
7:55 AM	0	5	97	2	0	0	177	5	0	5	2	2	0	1	1	12	309	3,245	
8:00 AM	0	7	92	4	0	0	153	10	0	2	0	0	0	4	0	18	290	3,137	
8:05 AM	0	4	75	0	0	0	154	4	0	10	3	3	0	9	0	21	283		
8:10 AM	0	3	80	0	0	1	155	5	0	0	0	1	0	3	0	11	259		
8:15 AM	0	8	83	2	0	1	158	3	0	5	1	1	0	8	0	14	284		
8:20 AM	0	2	90	1	0	0	144	5	0	4	0	2	0	7	0	18	273		
8:25 AM	0	5	86	2	0	1	128	5	0	1	0	1	0	1	0	11	241		
8:30 AM	0	9	97	2	0	1	155	2	0	4	0	0	0	4	0	14	288		
8:35 AM	0	5	81	1	0	0	146	9	0	7	0	3	0	6	1	7	266		
8:40 AM	0	10	78	0	0	0	175	4	0	3	0	0	0	0	0	9	279		
8:45 AM	0	8	111	0	0	0	126	6	0	1	1	0	0	1	0	7	261		
8:50 AM	0	4	83	1	0	0	105	2	0	2	1	1	0	4	1	8	212		
8:55 AM	0	4	84	0	0	0	95	7	0	0	0	2	0	4	0	5	201		
Count Total	0	119	2,009	31	0	9	3,715	105	0	87	15	28	0	80	6	288	6,492		
Peak Hour	0	49	995	19	0	4	2,006	54	0	53	9	14	0	41	4	164	3,412		

Location: 3 SE 142nd Ave & Hwy 224 AM

Traffic Counts - Heavy Vehicles, Bicycles on Road, and Pedestrians/Bicycles on Crosswalk

Interval Start Time	Heavy Vehicles					Interval Start Time	Bicycles on Roadway				Interval Start Time	Pedestrians/Bicycles on Crosswalk				
	EB	NB	WB	SB	Total		EB	NB	WB	SB		EB	NB	WB	SB	Total
7:00 AM	6	1	3	0	10	7:00 AM	0	0	0	0	0	7:00 AM	0	0	0	0
7:05 AM	6	1	7	0	14	7:05 AM	0	0	0	0	0	7:05 AM	0	0	0	0
7:10 AM	6	1	4	1	12	7:10 AM	0	0	0	0	0	7:10 AM	0	0	0	0
7:15 AM	9	0	3	1	13	7:15 AM	0	0	0	0	0	7:15 AM	0	0	0	0
7:20 AM	1	1	5	0	7	7:20 AM	0	0	0	0	0	7:20 AM	0	0	0	0
7:25 AM	5	0	3	1	9	7:25 AM	0	0	0	0	0	7:25 AM	0	0	0	0
7:30 AM	5	0	3	0	8	7:30 AM	0	0	0	0	0	7:30 AM	0	0	0	0
7:35 AM	4	0	2	1	7	7:35 AM	0	0	0	0	0	7:35 AM	0	0	0	0
7:40 AM	4	1	3	0	8	7:40 AM	0	0	0	0	0	7:40 AM	0	0	0	0
7:45 AM	3	0	0	1	4	7:45 AM	0	0	0	0	0	7:45 AM	0	0	0	0
7:50 AM	3	0	2	0	5	7:50 AM	0	0	0	0	0	7:50 AM	0	0	0	0
7:55 AM	2	0	4	1	7	7:55 AM	0	0	0	0	0	7:55 AM	0	0	0	0
8:00 AM	8	0	4	2	14	8:00 AM	0	0	0	0	0	8:00 AM	0	0	0	0
8:05 AM	5	2	4	0	11	8:05 AM	0	0	0	0	0	8:05 AM	0	0	0	1
8:10 AM	4	0	7	0	11	8:10 AM	0	0	0	0	0	8:10 AM	0	0	0	0
8:15 AM	3	0	3	0	6	8:15 AM	0	0	0	0	0	8:15 AM	0	0	0	0
8:20 AM	4	0	3	0	7	8:20 AM	0	0	0	0	0	8:20 AM	0	0	0	0
8:25 AM	3	0	3	0	6	8:25 AM	0	0	0	0	0	8:25 AM	0	0	0	0
8:30 AM	6	0	7	0	13	8:30 AM	0	0	0	0	0	8:30 AM	0	1	0	1
8:35 AM	3	0	3	0	6	8:35 AM	0	0	0	0	0	8:35 AM	0	0	0	0
8:40 AM	3	0	5	0	8	8:40 AM	0	0	0	0	0	8:40 AM	0	0	1	1
8:45 AM	8	0	3	0	11	8:45 AM	0	0	0	0	0	8:45 AM	0	0	1	1
8:50 AM	6	0	4	0	10	8:50 AM	0	0	0	0	0	8:50 AM	0	0	0	0
8:55 AM	1	0	2	0	3	8:55 AM	0	0	0	0	0	8:55 AM	0	0	0	0
Count Total	108	7	87	8	210	Count Total	0	0	0	0	0	Count Total	0	1	1	2
Peak Hour	55	5	37	8	105	Peak Hour	0	0	0	0	0	Peak Hour	0	0	0	1



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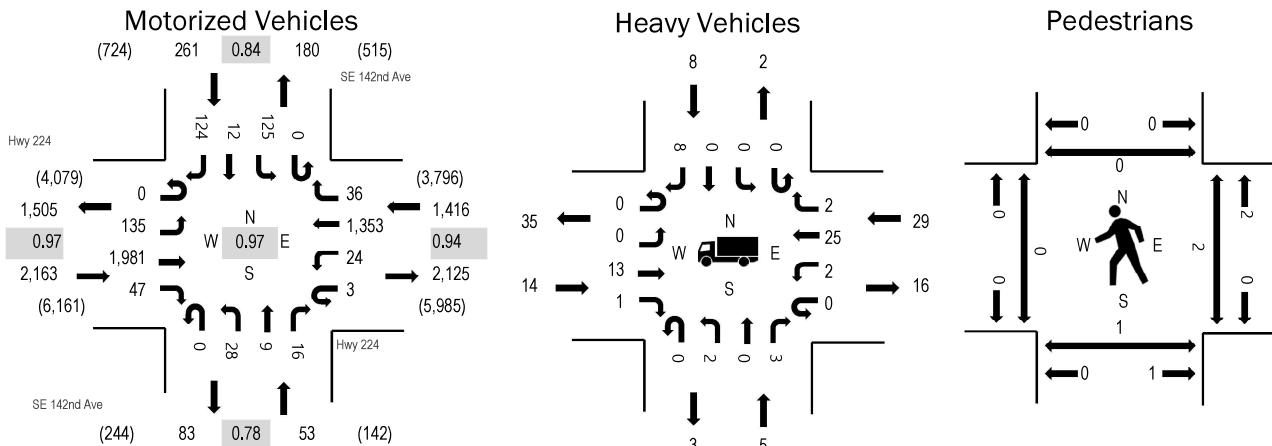
Location: 3 SE 142nd Ave & Hwy 224 PM

Date: Tuesday, November 16, 2021

Peak Hour: 04:35 PM - 05:35 PM

Peak 15-Minutes: 05:20 PM - 05:35 PM

Peak Hour



Note: Total study counts contained in parentheses.

	HV%	PHF
EB	0.6%	0.97
WB	2.0%	0.94
NB	9.4%	0.78
SB	3.1%	0.84
All	1.4%	0.97

Traffic Counts - Motorized Vehicles

Interval Start Time	Hwy 224 Eastbound				Hwy 224 Westbound				SE 142nd Ave Northbound				SE 142nd Ave Southbound				Rolling Hour	
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right		
3:30 PM	0	12	160	2	0	1	113	6	0	3	0	0	0	4	0	12	313	3,750
3:35 PM	0	6	184	3	0	1	125	2	0	2	0	1	0	11	0	12	347	3,749
3:40 PM	0	12	153	8	0	0	95	5	1	2	0	1	0	5	0	10	292	3,726
3:45 PM	0	9	154	5	0	1	122	3	0	3	2	1	0	10	2	11	323	3,794
3:50 PM	0	8	142	6	0	2	129	10	0	3	1	2	0	11	1	8	323	3,772
3:55 PM	0	20	150	4	0	0	106	1	0	3	0	1	0	7	3	12	307	3,768
4:00 PM	0	6	154	4	0	0	82	7	0	3	2	0	0	12	4	9	283	3,780
4:05 PM	0	14	177	2	0	0	118	2	0	2	0	0	0	11	0	19	345	3,782
4:10 PM	0	9	171	3	0	1	101	2	0	1	2	4	0	10	0	11	315	3,756
4:15 PM	0	9	154	6	0	0	88	2	0	0	1	3	0	16	2	11	292	3,797
4:20 PM	0	8	145	9	0	2	110	3	0	3	3	1	0	11	1	4	300	3,810
4:25 PM	0	8	168	2	1	1	110	0	0	0	0	1	0	6	1	12	310	3,840
4:30 PM	0	14	148	16	0	1	103	1	0	0	1	2	0	13	2	11	312	3,877
4:35 PM	0	5	160	2	1	0	119	2	0	3	1	3	0	21	1	6	324	3,893
4:40 PM	0	8	183	6	0	1	121	5	0	2	0	0	0	12	3	19	360	3,830
4:45 PM	0	14	140	4	0	2	105	4	0	3	2	2	0	13	0	12	301	3,836
4:50 PM	0	13	165	4	0	1	113	2	0	2	1	2	0	8	1	7	319	3,837
4:55 PM	0	7	161	6	0	0	118	5	0	4	0	0	0	8	0	10	319	3,786
5:00 PM	0	13	156	2	0	3	87	2	0	0	0	4	0	9	0	9	285	3,722
5:05 PM	0	6	172	3	0	0	112	1	0	2	0	0	0	12	1	10	319	3,699
5:10 PM	0	8	177	4	1	4	129	4	0	1	0	1	0	15	1	11	356	3,654
5:15 PM	0	11	158	8	0	2	91	4	0	1	3	2	0	11	2	12	305	3,514
5:20 PM	0	14	165	7	1	2	121	1	0	4	2	0	0	5	0	8	330	3,447
5:25 PM	0	14	172	1	0	4	133	4	0	2	0	1	0	4	3	9	347	3,339
5:30 PM	0	22	172	0	0	5	104	2	0	4	0	1	0	7	0	11	328	3,196
5:35 PM	0	11	154	5	0	1	67	4	0	0	0	0	0	13	0	6	261	
5:40 PM	0	8	181	3	0	0	150	1	0	3	2	1	0	6	2	9	366	
5:45 PM	0	11	178	4	0	1	90	2	0	2	0	0	0	5	1	8	302	

Location: 3 SE 142nd Ave & Hwy 224 PM

5:50 PM	0	14	145	6	0	2	73	2	0	2	0	1	0	10	4	9	268
5:55 PM	0	14	130	3	0	2	84	3	0	2	1	0	0	5	1	10	255
6:00 PM	0	7	139	1	0	0	91	0	0	2	1	1	0	6	2	12	262
6:05 PM	0	19	158	5	0	0	64	2	0	4	1	1	0	12	1	7	274
6:10 PM	0	3	107	3	0	1	83	5	0	0	0	1	0	4	2	7	216
6:15 PM	0	11	140	3	0	0	78	0	0	1	1	0	0	1	0	3	238
6:20 PM	0	13	119	6	0	2	62	1	0	1	0	0	0	7	0	11	222
6:25 PM	0	5	126	1	0	0	51	1	0	5	1	0	0	4	2	8	204
Count Total	0	386	5,618	157	4	43	3,648	101	1	75	28	38	0	325	43	356	10,823
Peak Hour	0	135	1,981	47	3	24	1,353	36	0	28	9	16	0	125	12	124	3,893

Location: 3 SE 142nd Ave & Hwy 224 PM

Traffic Counts - Heavy Vehicles, Bicycles on Road, and Pedestrians/Bicycles on Crosswalk

Interval Start Time	Heavy Vehicles					Interval Start Time	Bicycles on Roadway					Interval Start Time	Pedestrians/Bicycles on Crosswalk				
	EB	NB	WB	SB	Total		EB	NB	WB	SB	Total		EB	NB	WB	SB	Total
3:30 PM	4	0	8	2	14	3:30 PM	0	0	0	0	0	3:30 PM	0	0	0	0	0
3:35 PM	3	0	2	0	5	3:35 PM	0	0	0	0	0	3:35 PM	0	0	0	0	0
3:40 PM	0	0	3	0	3	3:40 PM	0	0	0	0	0	3:40 PM	0	0	0	0	0
3:45 PM	6	0	5	0	11	3:45 PM	1	0	0	0	1	3:45 PM	0	0	0	0	0
3:50 PM	4	0	5	0	9	3:50 PM	0	0	0	0	0	3:50 PM	0	0	0	0	0
3:55 PM	2	0	6	0	8	3:55 PM	0	0	0	0	0	3:55 PM	0	0	0	1	1
4:00 PM	2	0	3	2	7	4:00 PM	0	0	0	0	0	4:00 PM	0	0	0	0	0
4:05 PM	1	1	3	1	6	4:05 PM	0	0	0	0	0	4:05 PM	0	0	0	0	0
4:10 PM	4	0	2	0	6	4:10 PM	0	0	0	0	0	4:10 PM	0	0	0	0	0
4:15 PM	4	0	2	1	7	4:15 PM	0	0	0	0	0	4:15 PM	0	0	0	0	0
4:20 PM	3	0	2	0	5	4:20 PM	0	0	0	0	0	4:20 PM	0	0	0	0	0
4:25 PM	4	0	1	1	6	4:25 PM	0	0	0	0	0	4:25 PM	0	0	0	0	0
4:30 PM	3	0	3	5	11	4:30 PM	0	0	0	0	0	4:30 PM	0	0	0	0	0
4:35 PM	3	2	2	1	8	4:35 PM	0	0	0	0	0	4:35 PM	0	0	1	0	1
4:40 PM	0	0	7	4	11	4:40 PM	0	0	0	0	0	4:40 PM	0	0	0	0	0
4:45 PM	1	0	1	0	2	4:45 PM	0	0	0	0	0	4:45 PM	0	0	0	0	0
4:50 PM	3	0	1	0	4	4:50 PM	0	0	0	0	0	4:50 PM	0	0	0	0	0
4:55 PM	2	1	1	0	4	4:55 PM	0	0	0	0	0	4:55 PM	0	0	0	0	0
5:00 PM	1	0	2	0	3	5:00 PM	0	0	0	0	0	5:00 PM	0	1	1	0	2
5:05 PM	2	0	2	0	4	5:05 PM	0	0	0	0	0	5:05 PM	0	0	0	0	0
5:10 PM	0	0	3	1	4	5:10 PM	0	0	0	0	0	5:10 PM	0	0	0	0	0
5:15 PM	1	0	3	0	4	5:15 PM	0	0	0	0	0	5:15 PM	0	0	0	0	0
5:20 PM	0	0	2	2	4	5:20 PM	0	0	0	0	0	5:20 PM	0	0	0	0	0
5:25 PM	0	0	2	0	2	5:25 PM	0	0	0	0	0	5:25 PM	0	0	0	0	0
5:30 PM	1	2	3	0	6	5:30 PM	0	0	0	0	0	5:30 PM	0	0	0	0	0
5:35 PM	0	0	0	0	0	5:35 PM	0	0	0	0	0	5:35 PM	0	0	0	0	0
5:40 PM	0	0	3	0	3	5:40 PM	0	0	0	0	0	5:40 PM	0	0	0	0	0
5:45 PM	0	0	2	0	2	5:45 PM	0	0	0	0	0	5:45 PM	0	0	0	0	0
5:50 PM	3	0	1	0	4	5:50 PM	0	0	0	0	0	5:50 PM	0	0	0	0	0
5:55 PM	1	0	3	0	4	5:55 PM	0	0	0	0	0	5:55 PM	0	0	0	0	0
6:00 PM	2	0	3	0	5	6:00 PM	0	0	0	0	0	6:00 PM	0	0	0	0	0
6:05 PM	0	0	0	0	0	6:05 PM	1	0	0	0	1	6:05 PM	0	0	1	0	1
6:10 PM	1	0	2	0	3	6:10 PM	0	0	0	0	0	6:10 PM	0	0	0	0	0
6:15 PM	0	0	2	0	2	6:15 PM	0	0	0	0	0	6:15 PM	0	0	0	0	0
6:20 PM	1	0	1	0	2	6:20 PM	0	0	0	0	0	6:20 PM	0	0	0	0	0
6:25 PM	3	0	0	0	3	6:25 PM	0	0	0	0	0	6:25 PM	0	0	0	0	0
Count Total	65	6	91	20	182	Count Total	2	0	0	0	2	Count Total	0	1	3	1	5
Peak Hour	14	5	29	8	56	Peak Hour	0	0	0	0	0	Peak Hour	0	1	2	0	3

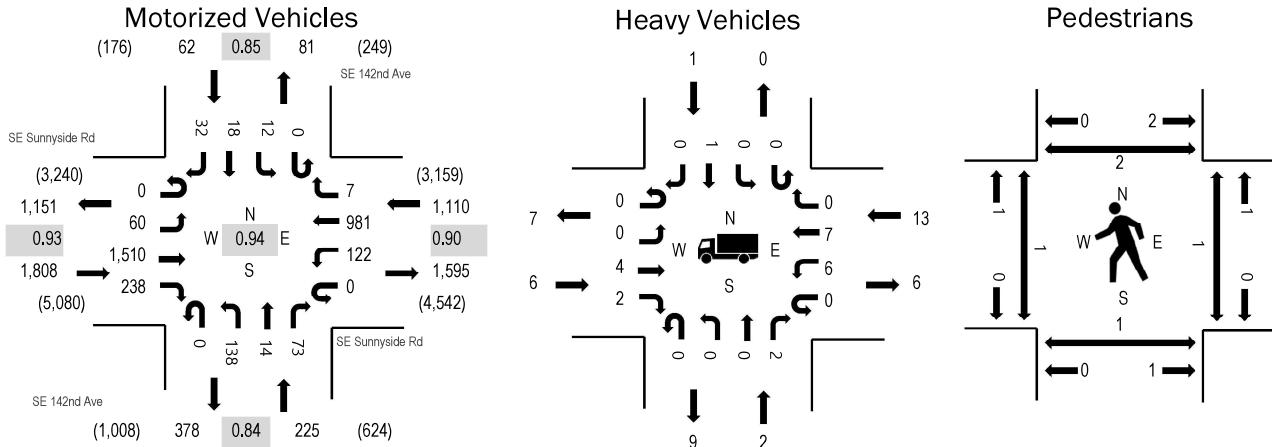
Location: 1 SE 142nd Ave & SE Sunnyside Rd PM

Date: Thursday, November 18, 2021

Peak Hour: 04:15 PM - 05:15 PM

Peak 15-Minutes: 05:05 PM - 05:20 PM

Peak Hour



Note: Total study counts contained in parentheses.

	HV%	PHF
EB	0.3%	0.93
WB	1.2%	0.90
NB	0.9%	0.84
SB	1.6%	0.85
All	0.7%	0.94

Traffic Counts - Motorized Vehicles

Interval Start Time	SE Sunnyside Rd				SE 142nd Ave				SE 142nd Ave				SE 142nd Ave				Total	Rolling Hour
	Eastbound				Westbound				Northbound				Southbound					
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total	Rolling Hour
3:30 PM	0	4	114	14	0	9	89	1	0	11	1	7	0	2	1	1	254	3,160
3:35 PM	0	2	130	14	0	3	76	3	0	7	2	6	0	1	1	3	248	3,195
3:40 PM	0	8	130	15	0	15	91	0	0	10	0	4	0	2	2	1	278	3,179
3:45 PM	0	5	123	16	1	3	82	2	0	10	0	11	0	0	1	3	257	3,171
3:50 PM	0	2	91	14	0	8	92	0	0	5	1	0	0	1	0	3	217	3,142
3:55 PM	0	2	150	14	0	5	74	4	0	6	1	10	0	1	1	3	271	3,161
4:00 PM	0	6	100	18	0	11	72	2	0	12	1	11	0	0	3	2	238	3,160
4:05 PM	0	8	131	31	0	10	79	0	0	10	2	4	0	0	1	5	281	3,186
4:10 PM	0	2	118	21	0	15	89	1	0	10	2	6	0	1	1	1	267	3,166
4:15 PM	0	11	125	25	0	7	97	1	0	13	0	7	0	0	1	4	291	3,205
4:20 PM	0	1	133	19	0	11	94	1	0	12	0	6	0	0	2	4	283	3,197
4:25 PM	0	8	134	18	0	13	81	0	0	6	1	5	0	3	3	3	275	3,155
4:30 PM	0	7	145	22	0	9	88	1	0	8	0	6	0	1	0	2	289	3,121
4:35 PM	0	2	120	20	0	8	57	0	0	13	0	6	0	2	2	2	232	3,084
4:40 PM	0	4	112	20	0	14	94	0	0	12	3	6	0	0	0	5	270	3,102
4:45 PM	0	3	109	23	0	5	67	1	0	7	1	5	0	0	3	4	228	3,086
4:50 PM	0	1	111	22	0	14	62	1	0	14	0	5	0	2	2	2	236	3,091
4:55 PM	0	7	138	18	0	10	67	1	0	13	3	6	0	2	3	2	270	3,112
5:00 PM	0	7	110	15	0	15	83	1	0	16	4	9	0	1	1	2	264	3,058
5:05 PM	0	5	137	18	0	2	84	0	0	6	0	6	0	0	1	2	261	3,013
5:10 PM	0	4	136	18	0	14	107	0	0	18	2	6	0	1	0	0	306	2,964
5:15 PM	0	5	155	14	0	6	67	3	0	12	4	7	0	2	1	7	283	2,906
5:20 PM	0	2	104	18	1	14	79	2	0	13	0	4	0	1	0	3	241	2,840
5:25 PM	0	5	123	15	0	6	70	3	0	9	2	4	0	1	1	2	241	2,802
5:30 PM	0	4	126	19	1	10	71	1	0	9	0	4	0	3	1	3	252	2,758
5:35 PM	0	2	138	22	0	7	54	1	0	7	2	12	1	1	0	3	250	
5:40 PM	0	8	105	24	0	13	81	0	0	11	2	7	0	0	1	2	254	
5:45 PM	0	8	111	22	0	10	58	3	0	13	1	5	0	0	1	1	233	

Location: 1 SE 142nd Ave & SE Sunnyside Rd PM

5:50 PM	0	1	125	18	0	10	85	1	0	4	1	5	0	3	0	4	257
5:55 PM	0	8	100	8	1	8	71	0	0	5	1	11	0	0	3	0	216
6:00 PM	0	4	102	14	0	10	68	1	0	13	0	1	0	2	1	3	219
6:05 PM	0	4	92	20	0	10	69	0	0	7	0	6	0	3	0	1	212
6:10 PM	0	5	124	14	0	8	75	0	0	15	0	3	0	0	0	4	248
6:15 PM	0	9	96	8	0	9	70	2	0	6	1	8	0	0	4	4	217
6:20 PM	0	3	91	7	0	5	75	0	0	9	3	8	0	0	0	2	203
6:25 PM	1	2	93	10	1	9	62	1	0	12	0	2	0	0	2	2	197
Count Total	1	169	4,282	628	5	336	2,780	38	0	364	41	219	1	36	44	95	9,039
Peak Hour	0	60	1,510	238	0	122	981	7	0	138	14	73	0	12	18	32	3,205

Location: 1 SE 142nd Ave & SE Sunnyside Rd PM

Traffic Counts - Heavy Vehicles, Bicycles on Road, and Pedestrians/Bicycles on Crosswalk

Interval Start Time	Heavy Vehicles					Interval Start Time	Bicycles on Roadway				Interval Start Time	Pedestrians/Bicycles on Crosswalk					
	EB	NB	WB	SB	Total		EB	NB	WB	SB		EB	NB	WB	SB	Total	
3:30 PM	1	0	4	0	5	3:30 PM	0	0	0	0	0	3:30 PM	0	1	0	0	1
3:35 PM	1	2	3	0	6	3:35 PM	0	0	0	0	0	3:35 PM	0	0	0	0	0
3:40 PM	1	0	1	0	2	3:40 PM	0	0	0	0	0	3:40 PM	0	0	0	0	0
3:45 PM	0	0	1	1	2	3:45 PM	0	0	0	0	0	3:45 PM	0	0	0	0	0
3:50 PM	3	0	0	0	3	3:50 PM	0	0	0	0	0	3:50 PM	0	0	0	0	0
3:55 PM	1	0	0	0	1	3:55 PM	1	0	0	0	1	3:55 PM	0	0	0	0	0
4:00 PM	0	0	4	0	4	4:00 PM	0	0	0	0	0	4:00 PM	0	0	0	0	0
4:05 PM	0	0	0	0	0	4:05 PM	0	0	0	0	0	4:05 PM	0	0	0	1	1
4:10 PM	0	0	1	0	1	4:10 PM	0	0	0	0	0	4:10 PM	0	0	0	0	0
4:15 PM	0	0	1	0	1	4:15 PM	0	0	1	0	1	4:15 PM	0	0	0	1	1
4:20 PM	2	0	1	0	3	4:20 PM	0	0	0	0	0	4:20 PM	0	0	0	0	0
4:25 PM	0	0	2	1	3	4:25 PM	0	0	0	0	0	4:25 PM	0	0	0	0	0
4:30 PM	0	0	1	0	1	4:30 PM	0	0	0	0	0	4:30 PM	0	1	0	0	1
4:35 PM	0	0	2	0	2	4:35 PM	0	0	0	0	0	4:35 PM	0	0	0	0	0
4:40 PM	1	1	2	0	4	4:40 PM	0	0	0	0	0	4:40 PM	0	0	0	0	0
4:45 PM	0	0	1	0	1	4:45 PM	0	0	0	0	0	4:45 PM	0	0	1	0	1
4:50 PM	2	0	1	0	3	4:50 PM	0	0	0	0	0	4:50 PM	1	0	0	1	2
4:55 PM	0	0	0	0	0	4:55 PM	0	0	0	0	0	4:55 PM	0	0	0	0	0
5:00 PM	0	0	1	0	1	5:00 PM	1	0	0	0	1	5:00 PM	0	0	0	0	0
5:05 PM	0	0	0	0	0	5:05 PM	0	0	0	0	0	5:05 PM	0	0	0	0	0
5:10 PM	1	1	1	0	3	5:10 PM	0	0	0	0	0	5:10 PM	0	0	0	0	0
5:15 PM	1	0	0	0	1	5:15 PM	0	0	0	0	0	5:15 PM	0	0	0	0	0
5:20 PM	2	0	2	0	4	5:20 PM	1	0	0	0	1	5:20 PM	0	0	0	0	0
5:25 PM	0	0	0	0	0	5:25 PM	0	0	0	0	0	5:25 PM	0	0	0	0	0
5:30 PM	0	0	0	1	1	5:30 PM	0	0	0	0	0	5:30 PM	0	0	0	0	0
5:35 PM	0	0	2	0	2	5:35 PM	0	0	0	0	0	5:35 PM	0	0	0	0	0
5:40 PM	0	0	1	0	1	5:40 PM	0	0	0	0	0	5:40 PM	0	0	0	0	0
5:45 PM	0	0	0	0	0	5:45 PM	0	0	0	0	0	5:45 PM	0	0	0	0	0
5:50 PM	1	0	0	0	1	5:50 PM	0	0	0	0	0	5:50 PM	0	0	0	0	0
5:55 PM	0	0	0	0	0	5:55 PM	0	0	0	0	0	5:55 PM	0	0	0	0	0
6:00 PM	0	0	0	0	0	6:00 PM	0	0	0	0	0	6:00 PM	0	0	0	0	0
6:05 PM	0	0	1	0	1	6:05 PM	0	0	0	0	0	6:05 PM	0	0	0	0	0
6:10 PM	1	0	0	0	1	6:10 PM	0	0	0	0	0	6:10 PM	0	0	0	0	0
6:15 PM	1	0	0	0	1	6:15 PM	0	0	0	0	0	6:15 PM	0	0	0	0	0
6:20 PM	1	0	0	0	1	6:20 PM	0	0	0	0	0	6:20 PM	0	0	0	0	0
6:25 PM	0	0	0	0	0	6:25 PM	0	0	0	0	0	6:25 PM	0	0	0	0	0
Count Total	20	4	33	3	60	Count Total	3	0	1	0	4	Count Total	1	2	1	3	7
Peak Hour	6	2	13	1	22	Peak Hour	1	0	1	0	2	Peak Hour	1	1	1	2	5

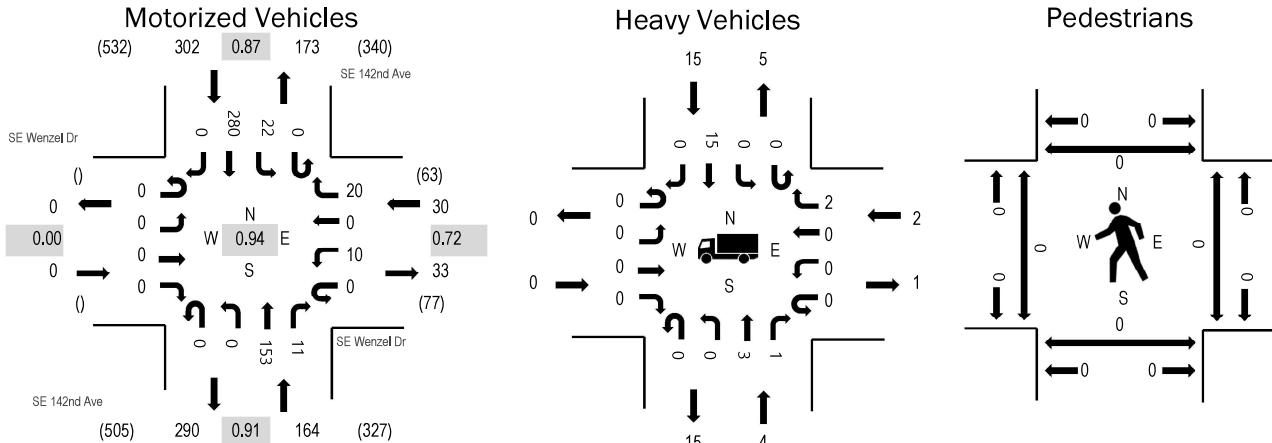
Location: 1 SE 142nd Ave & SE Wenzel Dr PM

Date: Wednesday, September 29, 2021

Peak Hour: 04:25 PM - 05:25 PM

Peak 15-Minutes: 04:45 PM - 05:00 PM

Peak Hour



Note: Total study counts contained in parentheses.

	HV%	PHF
EB	0.0%	0.00
WB	6.7%	0.72
NB	2.4%	0.91
SB	5.0%	0.87
All	4.2%	0.94

Traffic Counts - Motorized Vehicles

Interval Start Time	SE Wenzel Dr Eastbound				SE Wenzel Dr Westbound				SE 142nd Ave Northbound				SE 142nd Ave Southbound				Total	Rolling Hour	
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right			
4:00 PM	0	0	0	0	0	1	0	0	0	0	10	1	0	0	17	0	29	445	
4:05 PM	0	0	0	0	0	0	0	1	0	0	11	0	0	0	4	17	0	33	448
4:10 PM	0	0	0	0	0	0	0	1	0	0	11	2	0	0	1	14	0	29	464
4:15 PM	0	0	0	0	0	0	0	1	0	0	5	3	0	0	1	14	0	24	465
4:20 PM	0	0	0	0	0	0	0	2	0	0	14	1	0	0	1	21	0	39	493
4:25 PM	0	0	0	0	0	2	0	1	0	0	13	1	0	0	1	28	0	46	496
4:30 PM	0	0	0	0	0	0	0	0	0	0	14	2	0	0	3	17	0	36	484
4:35 PM	0	0	0	0	0	0	0	0	0	0	10	0	0	0	1	28	0	39	487
4:40 PM	0	0	0	0	0	1	0	2	0	0	12	1	0	0	2	20	0	38	485
4:45 PM	0	0	0	0	0	0	0	3	0	0	14	1	0	0	0	33	0	51	489
4:50 PM	0	0	0	0	0	0	0	0	0	0	12	0	0	0	3	20	0	35	478
4:55 PM	0	0	0	0	0	2	0	3	0	0	9	1	0	0	2	29	0	46	474
5:00 PM	0	0	0	0	0	1	0	1	0	0	11	0	0	0	2	17	0	32	477
5:05 PM	0	0	0	0	0	0	0	4	0	0	17	0	0	0	2	26	0	49	
5:10 PM	0	0	0	0	0	0	0	1	0	0	13	1	0	0	4	11	0	30	
5:15 PM	0	0	0	0	0	3	0	2	0	0	15	3	0	0	1	28	0	52	
5:20 PM	0	0	0	0	0	1	0	3	0	0	13	1	0	0	1	23	0	42	
5:25 PM	0	0	0	0	0	2	0	4	0	0	10	1	0	0	3	14	0	34	
5:30 PM	0	0	0	0	0	0	0	2	0	0	12	5	0	0	1	19	0	39	
5:35 PM	0	0	0	0	0	0	0	3	0	0	13	2	0	0	2	17	0	37	
5:40 PM	0	0	0	0	0	1	0	5	0	0	14	3	0	0	3	16	0	42	
5:45 PM	0	0	0	0	0	1	0	3	0	0	16	1	0	0	3	16	0	40	
5:50 PM	0	0	0	0	0	0	0	1	0	0	11	0	0	0	3	16	0	31	
5:55 PM	0	0	0	0	0	4	0	1	0	0	16	1	0	0	2	25	0	49	
Count Total	0	0	0	0	0	19	0	44	0	0	296	31	0	46	486	0	922		
Peak Hour	0	0	0	0	0	10	0	20	0	0	153	11	0	22	280	0	496		

Location: 1 SE 142nd Ave & SE Wenzel Dr PM

Traffic Counts - Heavy Vehicles, Bicycles on Road, and Pedestrians/Bicycles on Crosswalk

Interval Start Time	Heavy Vehicles					Interval Start Time	Bicycles on Roadway				Interval Start Time	Pedestrians/Bicycles on Crosswalk				
	EB	NB	WB	SB	Total		EB	NB	WB	SB		EB	NB	WB	SB	Total
4:00 PM	0	0	0	2	2	4:00 PM	0	0	0	0	0	4:00 PM	0	0	0	0
4:05 PM	0	0	0	0	0	4:05 PM	0	0	0	0	0	4:05 PM	0	0	0	0
4:10 PM	0	1	0	0	1	4:10 PM	0	0	0	0	0	4:10 PM	0	0	0	0
4:15 PM	0	1	0	0	1	4:15 PM	0	0	0	0	0	4:15 PM	0	0	0	0
4:20 PM	0	1	0	0	1	4:20 PM	0	0	0	0	0	4:20 PM	0	0	0	0
4:25 PM	0	0	0	3	3	4:25 PM	0	0	0	0	0	4:25 PM	0	0	0	0
4:30 PM	0	0	0	4	4	4:30 PM	0	0	0	0	0	4:30 PM	0	0	0	0
4:35 PM	0	1	0	3	4	4:35 PM	0	0	0	0	0	4:35 PM	0	0	0	0
4:40 PM	0	0	0	2	2	4:40 PM	0	0	0	0	0	4:40 PM	0	0	0	0
4:45 PM	0	0	0	2	2	4:45 PM	0	0	0	0	0	4:45 PM	0	0	0	0
4:50 PM	0	2	0	0	2	4:50 PM	0	0	0	0	0	4:50 PM	0	0	0	0
4:55 PM	0	1	1	0	2	4:55 PM	0	0	0	0	0	4:55 PM	0	0	0	0
5:00 PM	0	0	0	1	1	5:00 PM	0	0	0	0	0	5:00 PM	0	0	0	0
5:05 PM	0	0	1	0	1	5:05 PM	0	0	0	0	0	5:05 PM	0	0	0	0
5:10 PM	0	0	0	0	0	5:10 PM	0	0	0	0	0	5:10 PM	0	0	0	0
5:15 PM	0	0	0	0	0	5:15 PM	0	0	0	0	0	5:15 PM	0	0	0	0
5:20 PM	0	0	0	0	0	5:20 PM	0	0	0	0	0	5:20 PM	0	0	0	0
5:25 PM	0	0	0	0	0	5:25 PM	0	0	0	0	0	5:25 PM	0	0	0	0
5:30 PM	0	1	0	0	1	5:30 PM	0	0	0	0	0	5:30 PM	0	0	0	0
5:35 PM	0	0	0	0	0	5:35 PM	0	0	0	0	0	5:35 PM	0	0	0	0
5:40 PM	0	0	0	0	0	5:40 PM	0	0	0	0	0	5:40 PM	0	0	1	0
5:45 PM	0	0	0	0	0	5:45 PM	0	0	0	0	0	5:45 PM	0	0	0	0
5:50 PM	0	0	0	0	0	5:50 PM	0	0	0	0	0	5:50 PM	0	0	1	0
5:55 PM	0	0	0	0	0	5:55 PM	0	0	0	0	0	5:55 PM	0	0	0	0
Count Total	0	8	2	17	27	Count Total	0	0	0	0	0	Count Total	0	0	2	0
Peak Hour	0	4	2	15	21	Peak Hour	0	0	0	0	0	Peak Hour	0	0	0	0

Appendix C - Safety

Crash History Data

Preliminary Signal Warrants

Left-turn Lane Warrants

SUNNYSIDE RD at 142ND AVE, City of Happy Valley, Clackamas County, 01/01/2015 to 12/31/2019
1 - 3 of 17 Crash records shown.

S	D	M	P	R	J	S	W	DATE	CLASS	CITY STREET	RD CHAR	INT-TYPE (MEDIAN)	OFFRD	WTHR	CRASH	SPCL USE	MOVE	A	S
SER#	P	E	A	U	I	C	O	DAY	DIST	FIRST STREET	DIRECT	TRAF- LEGS	RADBT	SURF	OWNER	FROM	FRTC	INJ	G
INVEST	B	L	G	N	H	R	TIME	PROM	SECOND STREET	LOCNTN	(#LANES)	CONTL	DRWY	LIGHT	SVRTY	P# TYPE	SYRTY	E	LICNS
RD DFT	D	C	S	V	L	K	LAT	LONG	LRS	CROSS	N	RAIN	S-1STOP	0	NON	STRAIGHT	LOC	PED	ACT
00935	Y	N	N	N	03/15/2015	16	142ND AVE			INTER									CAUSE
COUNTY	SU	0	SUNNYSIDE RD	E	06	0				TRF SIGNAL	N	WET	REAR	UNKN	E -W				01/07
N	5P	45 25 29 .68	-122 31	2.91						DAY	INJ				01	DRVR	NONE	00 M	UNK UNK
																	000	00	
																	047,043,026 000	01,07	
01543	N	N	N	N	04/05/2016	16	SE 142ND AVE			INTER	CROSS	N	CLR	S-1STOP	0	NON	STRAIGHT		
CITY	TU	0	SUNNYSIDE RD	W	06	0				TRF SIGNAL	N	DRY	REAR	PRVTE	W -E				
N	8P	45 25 29 .68	-122 31	2.91						DAY	INJ				01	DRVR	INJ/C	46 F	OR-Y OR<25
																	000	00	
																	026	000	
04162	N	N	N	N	09/10/2016	16	SE 142ND AVE			INTER	CROSS	N	CLR	S-1STOP	0	NON	STRAIGHT		
NO RPT	SA	0	SUNNYSIDE RD	W	06	0				TRF SIGNAL	N	DRY	RBAR	N/A	W -E				
N	5P	45 25 29 .68	-122 31	2.91						DAY	PDO				01	DRVR	NONE	00 UNK UNK	
																	000	00	
																	0.1 0.00	0.00	
																	0.1 0.00	0.00	

Disclaimer: The information contained in this report is compiled from individual driver and police crash reports submitted to the Oregon Department of Transportation as required in ORS 811.720. The Crash Analysis and Reporting Unit is committed to providing the highest quality crash data to customers. However, because submittal of crash report forms is the responsibility of the individual driver, the Crash Analysis and Reporting Unit can not guarantee that all qualifying crashes are represented or that all details pertaining to a single crash are accurate. Note: Legislative changes to DMV's vehicle crash reporting requirement, effective 01/01/2004, may result in fewer property damage only crashes being eligible for inclusion in the Statewide Crash Data File.

CITY OF HAPPY VALLEY, CLACKAMAS COUNTY

SUNNYSIDE RD at 142ND AVE, City of Happy Valley, Clackamas County, 01/01/2015 to 12/31/2019

Disclaimer: The information contained in this report is compiled from individual driver and police crash reports submitted to the Oregon Department of Transportation as required in ORS 811.720. The Crash Analysis and Reporting Unit is committed to providing the highest quality crash data to customers. However, because submittal of crash report forms is voluntary, the Crash Analysis and Reporting Unit can not guarantee that all qualifying crashes are represented nor can assurances be made that all details pertaining to a single crash are accurate. Note: Legislative changes to DMV's vehicle crash reporting requirement, effective 01/01/2004, may result in fewer property

CITY OF HAPPY VALLEY, CLACKAMAS COUNTY

SUNNYSIDE RD at 142ND AVE, City of Happy Valley, Clackamas County, 01/01/2015 to 12/31/2019

Disclaimer: The information contained in this report is compiled from individual driver and police crash reports submitted to the Oregon Department of Transportation as required in ORS 811.720. The Crash Analysis and Reporting Unit is committed to providing the highest quality crash data to customers. However, because submittal of crash report forms is mandatory only for the individual driver, the Crash Analysis and Reporting Unit can not guarantee that all qualifying crashes are represented nor can assurances be made that all details pertaining to a single crash are accurate. Note: Legislative changes to DMV's vehicle crash reporting requirement, effective 01/01/2004, may result in fewer property

SUNNYSIDE RD at 142ND AVE, City of Happy Valley, Clackamas County, 01/01/2015 to 12/31/2019
14 - 17 of 17 Crash records shown.

S	D	M	P	R	J	S	W	DATE	CLASS	CITY STREET	RD CHAR	INT-TYPE (MEDIAN)	OFFRD	WTHR	CRASH	SPCL USE	MOVE	A	S
INVEST#	P	E	A	U	I	C	O	DAY	DIST	FIRST STREET	DIRECT	TRAF- LEGS	RADBT	SURF	OWNER	FROM	FRTC	INJ	G
RD DFT	E	L	G	N	H	R	TIME	FROM	SECOND STREET	LOCNTN	(#LANES)	CONTL	DRWY	LIGHT	SURVY	P# TYPE	SYRTY	E	LICNS
UNLOCK?	D	C	S	V	L	K	LAT	LONG	LRS	CROSS	N	RAIN	ANGL-OTH	01 NONE	STRAIGHT	TO	RES	ACT	PED
03403	N	N	N	10/03/2019	17	SE	142ND AVE	INTER	CN	TRF SIGNAL	N	WET	ANGL	PRVTE	N -S	04	CAUSE		
NO RPT	TH	0	SUNNYSIDE RD	0.1	0	8P	45 25 29 .68	-122 31	2.92	DLIT	INJ	PSNGR CAR	01 DRV	None	45 F	OR Y	0.00	0.00	
N	N	N	N	10/16/2019	16	SE	142ND AVE	INTER	CN	TRF SIGNAL	N	DRY	TURN	-	0.02	NONE	STRAIGHT	E -W	0.00
CITY	MO	0	SUNNYSIDE RD	0.1	0	45 25 29 .68	-122 31	2.91	DLIT	INJ	PSNGR CAR	01 DRV	None	50 M	OR Y	0.20	0.00		
N	N	N	N	10/16/2019	16	SE	142ND AVE	INTER	CN	TRF SIGNAL	N	DRY	TURN	-	0.04	NONE	STRAIGHT	E -W	0.04
NO RPT	WE	0	SUNNYSIDE RD	0.3	0	3P	45 25 29 .68	-122 31	2.91	DLIT	INJ	PSNGR CAR	01 DRV	None	49 M	OR Y	0.00	0.00	
N	N	N	N	10/17/2019	16	SE	142ND AVE	INTER	CN	TRF SIGNAL	N	WET	TURN	S	0.05	NONE	STRAIGHT	E -W	0.00
CITY	SA	0	SUNNYSIDE RD	0.3	0	45 25 29 .68	-122 31	2.91	DLIT	INJ	PSNGR CAR	01 DRV	None	50 M	OR Y	0.20	0.00		
N	N	N	N	10/17/2019	16	SE	142ND AVE	INTER	CN	TRF SIGNAL	N	DRY	TURN	W	0.06	NONE	STRAIGHT	E -W	0.00
NO RPT	WE	0	SUNNYSIDE RD	0.4	0	45 25 29 .68	-122 31	2.91	DLIT	INJ	PSNGR CAR	01 DRV	None	49 M	OR Y	0.00	0.00		
N	N	N	N	10/17/2019	16	SE	142ND AVE	INTER	CN	TRF SIGNAL	N	DRY	TURN	W	0.07	NONE	STRAIGHT	E -W	0.00
CITY	TH	0	SUNNYSIDE RD	0.4	0	45 25 29 .68	-122 31	2.91	DLIT	INJ	PSNGR CAR	01 DRV	None	50 M	OR Y	0.20	0.00		
N	N	N	N	10/17/2019	16	SE	142ND AVE	INTER	CN	TRF SIGNAL	N	DRY	TURN	W	0.08	NONE	STRAIGHT	E -W	0.00
NO RPT	WE	0	SUNNYSIDE RD	0.4	0	45 25 29 .68	-122 31	2.91	DLIT	INJ	PSNGR CAR	01 DRV	None	50 M	OR Y	0.20	0.00		
N	N	N	N	10/17/2019	16	SE	142ND AVE	INTER	CN	TRF SIGNAL	N	DRY	TURN	W	0.09	NONE	STRAIGHT	E -W	0.00
CITY	3P	0	SUNNYSIDE RD	0.4	0	45 25 29 .68	-122 31	2.91	DLIT	INJ	PSNGR CAR	01 DRV	None	50 M	OR Y	0.20	0.00		
N	N	N	N	10/17/2019	16	SE	142ND AVE	INTER	CN	TRF SIGNAL	N	DRY	TURN	W	0.10	NONE	STRAIGHT	E -W	0.00
NO RPT	WE	0	SUNNYSIDE RD	0.4	0	45 25 29 .68	-122 31	2.91	DLIT	INJ	PSNGR CAR	01 DRV	None	50 M	OR Y	0.20	0.00		
N	N	N	N	10/17/2019	16	SE	142ND AVE	INTER	CN	TRF SIGNAL	N	DRY	TURN	W	0.11	NONE	STRAIGHT	E -W	0.00
CITY	TH	0	SUNNYSIDE RD	0.4	0	45 25 29 .68	-122 31	2.91	DLIT	INJ	PSNGR CAR	01 DRV	None	50 M	OR Y	0.20	0.00		
N	N	N	N	10/17/2019	16	SE	142ND AVE	INTER	CN	TRF SIGNAL	N	DRY	TURN	W	0.12	NONE	STRAIGHT	E -W	0.00
NO RPT	WE	0	SUNNYSIDE RD	0.4	0	45 25 29 .68	-122 31	2.91	DLIT	INJ	PSNGR CAR	01 DRV	None	50 M	OR Y	0.20	0.00		
N	N	N	N	10/17/2019	16	SE	142ND AVE	INTER	CN	TRF SIGNAL	N	DRY	TURN	W	0.13	NONE	STRAIGHT	E -W	0.00
CITY	3P	0	SUNNYSIDE RD	0.4	0	45 25 29 .68	-122 31	2.91	DLIT	INJ	PSNGR CAR	01 DRV	None	50 M	OR Y	0.20	0.00		
N	N	N	N	10/17/2019	16	SE	142ND AVE	INTER	CN	TRF SIGNAL	N	DRY	TURN	W	0.14	NONE	STRAIGHT	E -W	0.00
NO RPT	WE	0	SUNNYSIDE RD	0.4	0	45 25 29 .68	-122 31	2.91	DLIT	INJ	PSNGR CAR	01 DRV	None	50 M	OR Y	0.20	0.00		
N	N	N	N	10/17/2019	16	SE	142ND AVE	INTER	CN	TRF SIGNAL	N	DRY	TURN	W	0.15	NONE	STRAIGHT	E -W	0.00
CITY	TH	0	SUNNYSIDE RD	0.4	0	45 25 29 .68	-122 31	2.91	DLIT	INJ	PSNGR CAR	01 DRV	None	50 M	OR Y	0.20	0.00		
N	N	N	N	10/17/2019	16	SE	142ND AVE	INTER	CN	TRF SIGNAL	N	DRY	TURN	W	0.16	NONE	STRAIGHT	E -W	0.00
NO RPT	WE	0	SUNNYSIDE RD	0.4	0	45 25 29 .68	-122 31	2.91	DLIT	INJ	PSNGR CAR	01 DRV	None	50 M	OR Y	0.20	0.00		
N	N	N	N	10/17/2019	16	SE	142ND AVE	INTER	CN	TRF SIGNAL	N	DRY	TURN	W	0.17	NONE	STRAIGHT	E -W	0.00
CITY	3P	0	SUNNYSIDE RD	0.4	0	45 25 29 .68	-122 31	2.91	DLIT	INJ	PSNGR CAR	01 DRV	None	50 M	OR Y	0.20	0.00		
N	N	N	N	10/17/2019	16	SE	142ND AVE	INTER	CN	TRF SIGNAL	N	DRY	TURN	W	0.18	NONE	STRAIGHT	E -W	0.00
NO RPT	WE	0	SUNNYSIDE RD	0.4	0	45 25 29 .68	-122 31	2.91	DLIT	INJ	PSNGR CAR	01 DRV	None	50 M	OR Y	0.20	0.00		
N	N	N	N	10/17/2019	16	SE	142ND AVE	INTER	CN	TRF SIGNAL	N	DRY	TURN	W	0.19	NONE	STRAIGHT	E -W	0.00
CITY	TH	0	SUNNYSIDE RD	0.4	0	45 25 29 .68	-122 31	2.91	DLIT	INJ	PSNGR CAR	01 DRV	None	50 M	OR Y	0.20	0.00		
N	N	N	N	10/17/2019	16	SE	142ND AVE	INTER	CN	TRF SIGNAL	N	DRY	TURN	W	0.20	NONE	STRAIGHT	E -W	0.00
NO RPT	WE	0	SUNNYSIDE RD	0.4	0	45 25 29 .68	-122 31	2.91	DLIT	INJ	PSNGR CAR	01 DRV	None	50 M	OR Y	0.20	0.00		
N	N	N	N	10/17/2019	16	SE	142ND AVE	INTER	CN	TRF SIGNAL	N	DRY	TURN	W	0.21	NONE	STRAIGHT	E -W	0.00
CITY	3P	0	SUNNYSIDE RD	0.4	0	45 25 29 .68	-122 31	2.91	DLIT	INJ	PSNGR CAR	01 DRV	None	50 M	OR Y	0.20	0.00		
N	N	N	N	10/17/2019	16	SE	142ND AVE	INTER	CN	TRF SIGNAL	N	DRY	TURN	W	0.22	NONE	STRAIGHT	E -W	0.00
NO RPT	WE	0	SUNNYSIDE RD	0.4	0	45 25 29 .68	-122 31	2.91	DLIT	INJ	PSNGR CAR	01 DRV	None	50 M	OR Y	0.20	0.00		
N	N	N	N	10/17/2019	16	SE	142ND AVE	INTER	CN	TRF SIGNAL	N	DRY	TURN	W	0.23	NONE	STRAIGHT	E -W	0.00
CITY	TH	0	SUNNYSIDE RD	0.4	0	45 25 29 .68	-122 31	2.91	DLIT	INJ	PSNGR CAR	01 DRV	None	50 M	OR Y	0.20	0.00		
N	N	N	N	10/17/2019	16	SE	142ND AVE	INTER	CN	TRF SIGNAL	N	DRY	TURN	W	0.24	NONE	STRAIGHT	E -W	0.00
NO RPT	WE	0	SUNNYSIDE RD	0.4	0	45 25 29 .68	-122 31	2.91	DLIT	INJ	PSNGR CAR	01 DRV	None	50 M	OR Y	0.20	0.00		
N	N	N	N	10/17/2019	16	SE	142ND AVE	INTER	CN	TRF SIGNAL	N	DRY	TURN	W	0.25	NONE	STRAIGHT	E -W	0.00
CITY	3P	0	SUNNYSIDE RD	0.4	0	45 25 29 .68	-122 31	2.91	DLIT	INJ	PSNGR CAR	01 DRV	None	50 M	OR Y	0.20	0.00		
N	N	N	N	10/17/2019	16	SE	142ND AVE	INTER	CN	TRF SIGNAL	N	DRY	TURN	W	0.26	NONE	STRAIGHT	E -W	0.00
NO RPT	WE	0	SUNNYSIDE RD	0.4	0	45 25 29 .68	-122 31	2.91	DLIT	INJ	PSNGR CAR	01 DRV	None	50 M	OR Y	0.20	0.00		
N	N	N	N	10/17/2019	16	SE	142ND AVE	INTER	CN	TRF SIGNAL	N	DRY	TURN	W	0.27	NONE	STRAIGHT	E -W	0.00
CITY	TH	0	SUNNYSIDE RD	0.4	0	45 25 29 .68	-122 31	2.91	DLIT	INJ	PSNGR CAR	01 DRV	None	50 M	OR Y	0.20	0.00		
N	N	N	N	10/17/2019	16	SE	142ND AVE	INTER	CN	TRF SIGNAL	N	DRY	TURN	W	0.28	NONE	STRAIGHT	E -W	0.00
NO RPT	WE	0	SUNNYSIDE RD	0.4	0	45 25 29 .68	-122 31	2.91	DLIT	INJ	PSNGR CAR	01 DRV	None	50 M	OR Y	0.20	0.00		
N	N	N	N	10/17/2019	16	SE	142ND AVE	INTER	CN	TRF SIGNAL	N	DRY	TURN	W	0.29	NONE	STRAIGHT	E -W	0.00
CITY	3P	0	SUNNYSIDE RD	0.4	0	45 25 29 .68	-122 31	2.91	DLIT	INJ	PSNGR CAR	01 DRV	None	50 M	OR Y	0.20	0.00		
N	N	N	N	10/17/2019	16	SE	142ND AVE	INTER	CN	TRF SIGNAL	N	DRY	TURN	W	0.30	NONE	STRAIGHT	E -W	0.00
NO RPT	WE	0	SUNNYSIDE RD	0.4	0	45 25 29 .68	-122 31	2.91	DLIT	INJ	PSNGR CAR	01 DRV	None	50 M	OR Y	0.20	0.00		
N	N	N	N	10/17/2019	16	SE	142ND AVE	INTER	CN	TRF SIGNAL	N	DRY	TURN	W	0.31	NONE	STRAIGHT	E -W	0.00
CITY	TH	0	SUNNYSIDE RD	0.4	0	45 25 29 .68	-122 31	2.91	DLIT	INJ	PSNGR CAR	01 DRV	None	50 M	OR Y	0.20	0.00		
N	N	N	N	10/17/2019	16	SE	142ND AVE	INTER	CN	TRF SIGNAL	N	DRY	TURN	W	0.32	NONE	STRAIGHT	E -W	0.00
NO RPT	WE	0	SUNNYSIDE RD	0.4	0	45 25 29 .68	-122 31	2.91	DLIT	INJ	PSNGR CAR	01 DRV	None	50 M	OR Y	0.20	0.00		
N	N	N	N	10/17/2019	16	SE	142ND AVE	INTER	CN	TRF SIGNAL	N	DRY	TURN	W	0.33	NONE	STRAIGHT	E -W	0.00
CITY	3P	0	SUNNYSIDE RD	0.4	0	45 25 29 .68	-122 31	2.91	DLIT	INJ	PSNGR CAR	01 DRV	None	50 M	OR Y	0.20	0.00		
N	N	N	N	10/17/2019	16	SE	142ND AVE	INTER	CN	TRF SIGNAL	N	DRY	TURN	W	0.34	NONE	STRAIGHT	E -W	0.00
NO RPT	WE	0	SUNNYSIDE RD	0.4	0	45 25 29 .68	-122 31	2.91	DLIT	INJ	PSNGR CAR	01 DRV	None	50 M	OR Y	0.20	0.00		
N	N	N	N	10/17/2019	16	SE	142ND AVE	INTER	CN	TRF SIGNAL	N	DRY	TURN</						

OREGON . DEPARTMENT OF TRANSPORTATION - TRANSPORTATION DEVELOPMENT DIVISION
TRANSPORTATION DATA SECTION - CRASH ANALYSIS AND REPORTING UNIT

CITY OF HAPPY VALLEY, CLACKAMAS COUNTY

WENZEL DR at 142ND AVE, City of Happy Valley, Clackamas County, 01/01/2015 to 12/31/2019
1 - 2 of 2 Crash records shown.

S	D	M	CLASS	CITY STREET	INT-TYPE	OFRRD	WTHR	CRASH	SPCL USE	A	S	CAUSE			
ER#	P	R	J	W	DATE	(MEDIAN)	INT-REL	RDDBT	STUF	COLL	MOVE	INJ			
WEST	E	A	U	I	C	O	DAY	LEGS	TRAF-	CONNR.	FROM	G	E		
DET	E	L	G	N	H	R	TIME	#LANES	CONTL	SVRY	PED	X	LICNS		
LOCNO?	D	C	S	V	L	K	LAT	LONG	DEWVY	LIGHT	LOC	X	RES		
18553	N	N	N	N	06/05/2019	17	142ND AVE	INTER	3-LEG	N	TO	P# TYPE	ACT EVENT	043	26,08
ONE	WE	0	WENZEL DR	E				NONE	N	CLR	P# TYPE	SVRTY	ERRR		
10P	45 24 54.3	-122 31	2.66		05	0		N	DRY	FIX	TO	INJ		007	00
45 24 54.3	-122 31	2.66						N	DARK	PDO	P# TYPE	SVRTY	ERRR		
1679	N	N	N	N	12/18/2018	17	142ND AVE	INTER	3-LEG	N	TO	P# TYPE	SVRTY		
ONE	TU	0	WENZEL DR	CN				STOP SIGN	N	WET	PRVTE	S -N		000	00
3P	45 24 54.3	-122 31	2.66		02	0		N	DUSK	INJ	P# TYPE	SVRTY	ERRR		
										02 NONE	0	TURN-L	ON<25		
										PRVTE	E -S	01 DRVR	INJC	19 M	OR Y
										PSNGR CAR				000	00

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171: CLACKAMAS

Highway 171 ALL ROAD TYPES, MP 7.41 to 7.9 01/01/2015 to 12/31/2019, Both Add and Non-Add mileage

1 - 4 of 52 Crash records shown.

SER#	D M	P R J U S W D	COUNTY	RD# FC	CONN#	RD CHAR	INT-TYPE (MEDIAN)	OFFRD	WTHR	CRASH	SPCL USE	MOVE	A S	PRTC	INJ	G E	LICNS	PED	ACT	EVENT	CAUSE
INVEST	E A U I C O	DAY	CITY	COMENT	FIRST STREET	LOCN	LEG'S TRAF-	RNDBT	SURF	COLL	TRLR QTY	FROM	P# TYPE	SVRY	E X	RES	LOC	ERROR			
RD DT	E L G N H R	TIME	URBAN AREA	MLG TYP	SECOND STREET	(#LANES)	CONT'L	DRWY	LIGHT	SVRTY	V# TYPE	TO									
UNLOC?	D C S V L K	LAT	LONG	MILEPTN	IRS	STRAIGHT	N	UNK	SS-O	01 NONE	9	STRAIGHT									
00410	N N N N	01/22/2018	CLACKAMAS	1	14	W	(NONE)	N	WET	01 DRVR	NONE	E - W	000	000	000	000	000	000	000	10	
NONE	MO		HAPPY VALLEY	MN 0	SE CARVER RD	0		N	UNKNOWN	N	N/A	01 DRVR	NONE	00 UNK	UNK	000	000	000	000	000	
N	7P		PORTLAND OR	7.44	SE 142ND AVE	0.6		N	DARK	PDO	PSNGR CAR		01 DRVR	NONE	00 UNK	UNK	000	000	000	000	
N	45 24 37		-122 31 12.36		017100100S00	(04)				02 NONE	9	STRAIGHT	N/A	01 DRVR	NONE	00 UNK	UNK	000	000	000	000
04571	N N N N	12/12/2018	CLACKAMAS	1	14	W	STRGHT	N	DRY	S-STRAIGHT	01 NONE	9	STRAIGHT	N/A	01 DRVR	NONE	00 UNK	UNK	000	000	29
NONE	WE		HAPPY VALLEY	MN 0	SE CARVER RD	0		N	UNKNOWN	N	DRY	REAR	01 DRVR	NONE	00 UNK	UNK	000	000	000	000	000
N	4P		PORTLAND OR	7.46	SE 142ND AVE	0.3		N	DUSK	PDO	PSNGR CAR		01 DRVR	NONE	00 UNK	UNK	000	000	000	000	000
N	45 24 36.83		-122 31 10.79		017100100S00	(04)				02 NONE	9	STRAIGHT	N/A	01 DRVR	NONE	00 UNK	UNK	000	000	000	000
01871	N N N N	05/17/2015	CLACKAMAS	1	14	W	STRGHT	N	DRY	ANIMAL	01 NONE	0	STRAIGHT	E - W	01 DRVR	NONE	30 M	OR - Y	000	000	035
NONE	SU		HAPPY VALLEY	MN 0	SE CARVER RD	0		N	UNKNOWN	N	DRY	OTH	01 DRVR	NONE	30 M	OR - Y	000	000	000	000	000
N	11A		PORTLAND OR	7.47	SE 142ND AVE	0.6		N	DAY	PDO	PSNGR CAR		01 DRVR	NONE	30 M	OR - Y	000	000	000	000	12
N	45 24 36.75		-122 31 10.03		017100100S00	(04)				01 NONE	0	STRAIGHT	N/A	01 DRVR	NONE	00 UNK	UNK	000	000	000	000
04178	N N N N	11/22/2019	CLACKAMAS	1	14	W	STRGHT	N	DRY	ANIMAL	01 NONE	0	STRAIGHT	E - W	01 DRVR	NONE	30 M	OR - Y	000	000	035
NONE	FR		HAPPY VALLEY	MN 0	SE CARVER RD	0		N	UNKNOWN	N	DRY	PRVTE	01 DRVR	NONE	30 M	OR - Y	000	000	000	000	000
N	5P		PORTLAND OR	7.47	SE 142ND AVE	0.6		N	DAY	PDO	PSNGR CAR		01 DRVR	NONE	30 M	OR - Y	000	000	000	000	000
N	45 24 36.76		-122 31 10.04		017100100S00	(04)				01 NONE	0	STRAIGHT	N/A	01 DRVR	NONE	00 UNK	UNK	000	000	000	000
00770	N N N N	03/05/2019	CLACKAMAS	1	14	W	STRGHT	N	DRY	S-STRAIGHT	01 NONE	0	STRAIGHT	E - W	01 DRVR	NONE	00 UNK	UNK	000	000	29
NONE	TU		HAPPY VALLEY	MN 0	SE CARVER RD	0		N	UNKNOWN	N	DRY	REAR	01 DRVR	NONE	00 UNK	UNK	000	000	000	000	000
N	4P		PORTLAND OR	7.48	SE 142ND AVE	0.3		N	DAY	INJ	PSNGR CAR		01 DRVR	NONE	23 M	OR - Y	026	000	000	000	29
N	45 24 36.7		-122 31 9.28		017100100S00	(04)				02 NONE	9	STRAIGHT	N/A	01 DRVR	NONE	00 UNK	UNK	000	000	000	000

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OREGON DEPARTMENT OF TRANSPORTATION - TRANSPORTATION DEVELOPMENT DIVISION
TRANSPORTATION DATA SECTION - CRASH ANALYSIS AND REPORTING UNIT
CONTINUOUS SYSTEM CRASH LISTING

CDS380
01/26/2022
171: CLACKAMAS

Highway 171 ALL ROAD TYPES, MP 7.41 to 7.9 01/01/2015 to 12/31/2019, Both Add and Non-Add mileage

Disclaimer: The information contained in this report is compiled from individual driver and police crash reports submitted to the Oregon Department of Transportation as required in ORS 811.720. The Crash Analysis and Reporting Unit is committed to providing the highest quality crash data to customers. However, because submittal of crash report forms is the responsibility of the individual driver, the Crash Analysis and Reporting Unit can not guarantee that all qualifying crashes are represented nor can assurances be made that all details pertaining to a single crash are accurate. Note: Legislative changes to DMV's vehicle crash reporting requirement, effective 01/01/2004, may result in fewer property damage only crashes being eligible for inclusion in the Statewide Crash Data File.

171: CLACKAMAS

Highway 171 ALL ROAD TYPES, MP 7.41 to 7.9 01/01/2015 to 12/31/2019, Both Add and Non-Add mileage

5 - 9 of 52 Crash records shown.

SER#	D	M	P	R	J	S	W	DATE	COUNTY	RD#	FC	CONN#	RD CHAR	INT-TYPE (MEDIAN)	OFFRD	WTHR	CRASH	SPCL USE	TRLR QTY	MOVE	A	S	PRTC	INJ	G	E	LICNS	PED	ACT	EVENT	CAUSE	
INVEST	E	A	U	I	C	O	DAY	CITY	COMENT	FIRST STREET	LEGTS	TRAF-	RNDBT	SURF	COLL	PRVTE	PSNGR CAR	FROM	P# TYPE	TO	#	TYPE	STRTY	E	X	RES	LOC	ERROR				
RD DTT	E	L	G	N	H	R	TIME	URBN AREA	MLG TYP	SECOND STREET	(#LANES)	CONTL	DRWY	LIGHT	STRTY	PRVTE	PSNGR CAR	W - E	01	DRVR	INJC	56	F	OR-Y	000	000	011	00				
UNLOCK?	D	C	S	V	L	K	DAT	LONG	MILEPTN LRS	MILEPTN LRS																						
03812	N	N	N	N	10/30/2019	WE		CLACKAMAS	1	14	Straight	W	(None)	N	CLR	S-STRAIGHT	01	NONE	9	Straight	W - E									13	00	
NO RFT								HAPPY VALLEY	MN 0	SE CARVER RD				N	DRY	SS-O	N/A													000	00	
N						6P		PORTLAND UA	7.48	SE 142ND AVE	0.4			N	DUSK	PDO	PSNGR CAR				01	DRVR	NONE	00	Unk	UNK				000	00	
N						45 24 36 .68		-122 31 9 .28	017100100S00		(04)									02	NONE	9	Straight	W - E						000	00	
02581	N	N	N	N	06/08/2016	WE		CLACKAMAS	1	14	Straight	W	(None)	TRF SIGNAL	N	CLR	S-1STOP	01	NONE	0	Straight	W - E									29	00
NO RFT								HAPPY VALLEY	MN 0	SE CARVER RD				N	DRY	REAR	PRVTE	N/A											000	00		
N						6P		PORTLAND UA	7.52	SE 142ND AVE	0.3			N	DAY	INJ	PSNGR CAR				01	DRVR	NONE	23	M	OR-Y				026	000	
N						45 24 36 .46		-122 31 6 .16	017100100S00		(04)									02	NONE	0	STOP	PRVTE	PSNGR CAR				011	00		
04773	N	N	N	N	08/30/2016	TU		CLACKAMAS	1	14	Straight	W	(None)	UNKNOWN	N	CLR	S-1STOP	01	NONE	0	Straight	W - E									29	00
NONE								HAPPY VALLEY	MN 0	SE CARVER RD				N	DRY	REAR	PRVTE	N/A										000	00			
N						5P		PORTLAND UA	7.52	SE 142ND AVE	0.3			N	DAY	INJ	PSNGR CAR				01	DRVR	NONE	47	M	OR-Y				026	026	
N						45 24 36 .46		-122 31 6 .16	017100100S00		(04)									02	NONE	0	STOP	PRVTE	PSNGR CAR				011	00		
05549	N	N	N	N	12/21/2015			CLACKAMAS	1	14	Straight	W	(None)	UNKNOWN	N	RAIN	S-1STOP	01	NONE	0	Straight	W - E									29	00
NONE								HAPPY VALLEY	MN 0	SE CARVER RD				N	WET	REAR	PRVTE	N/A										000	00			
N						1P		PORTLAND UA	7.53	SE 142ND AVE	0.3			N	DAY	PDO	PSNGR CAR				01	DRVR	NONE	36	M	OR-Y				026	000	
N						45 24 36 .46		-122 31 5 .39	017100100S00		(04)									02	NONE	0	STOP	PRVTE	PSNGR CAR				011	00		

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OREGON DEPARTMENT OF TRANSPORTATION - TRANSPORTATION DEVELOPMENT DIVISION
TRANSPORTATION DATA SECTION - CRASH ANALYSIS AND REPORTING UNIT
CONTINUOUS SYSTEM CRASH LISTING

CDS380
01/26/2022
171: CLACKAMAS

Highway 171 ALL ROAD TYPES, MP 7.41 to 7.9 01/01/2015 to 12/31/2019, Both Add and Non-Add mileage

Disclaimer: The information contained in this report is compiled from individual driver and police crash reports submitted to the Oregon Department of Transportation as required in ORS 811.720. The Crash Analysis and Reporting Unit is committed to providing the highest quality crash data to customers. However, because submittal of crash report forms is the responsibility of the individual driver, the Crash Analysis and Reporting Unit can not guarantee that all qualifying crashes are represented or can assure that all details pertaining to a single crash are accurate. Note: Legislative changes to DMV's vehicle crash reporting requirement, effective 01/01/2004, may result in fewer property damage only crashes being eligible for inclusion in the Statewide Crash Data File.

171: CLACKAMAS

Highway 171 ALL ROAD TYPES, MP 7.41 to 7.9 01/01/2015 to 12/31/2019, Both Add and Non-Add mileage

10 - 14

of 52 Crash records shown.

SER#	D M	P R J U S W D	COUNTY	RD# FC	CONN#	RD CHAR	INT-TYPE (MEDIAN)	OFFRD	WTHR	CRASH	SPCL USE	NOVR	A S	PRTC	INJ	G E	LICNS	PED	ACT	EVENT	CAUSE
INVEST	E A U I C O	O DAY	CITY	COMENT	FIRST STREET	DIRECT	LEG'S	RNDBT	SURF	COLL	TRLR QTY	FROM	P# TYPE	TO	SVRTY	E X	RES	LOC	ERROR		
RD DTT	E L G N H R	TIME	URBAN AREA	MLG TYP	SECOND STREET	LOCNT	(#LANES)	DRWY	LIGHT	SVRTY	V# TYPE										
UNLOCK?	D C S V L K	LAT	LONG	MILEPNT LRS	MILEPNT LRS	STRAIGHT	S-STRAIGHT	01 NONE	9	STRAIGHT											
03818	N N N N N N	08/12/2016	CLACKAMAS	1 14	MN 0 SE CARVER RD	W	(NONE)	N	CLR	01 NONE	9	07	00	000	000	00	00	00	00	00	
STATE	WE	FR	HAPPY VALLEY	MN 0	SE CARVER RD	(04)	(NONE)	N	DRY	REAR	W-E	N/A	01 DRV	NONE	00	Unk	UNK	000	000	00	
N	6P	PORTLAND UA	7.53	SE 142ND AVE	0.3			N	DAY	PDO	PSNGR CAR		01 DRV	NONE	00	Unk	UNK	000	000	00	
N	45 24 36 44	-122 31 5.39		017100100S00									02 NONE	9	STOP				011	00	
02690	N N N N N N	08/07/2019	CLACKAMAS	1 14	MN 0 SE CARVER RD	W	STRAIGHT	N	CLR	S-1STOP	01 NONE	0	STRAIGHT						000	00	07,29
STATE	WE	FR	HAPPY VALLEY	MN 0	SE CARVER RD	(04)	(NONE)	N	DRY	REAR	W-E	PRVTE	01 DRV	NONE	00	Unk	UNK	000	000	00	
N	5P	PORTLAND UA	7.53	SE 142ND AVE	0.3			N	DAY	INJ	PSNGR CAR		01 DRV	NONE	00	Unk	UNK	043,026	000	07,29	
N	45 24 36 45	-122 31 5.39		017100100S00									02 NONE	0	STOP				011	00	
01138	Y N N N N N	04/01/2015	CLACKAMAS	1 14	MN 0 SE CARVER RD	W	STRAIGHT	N	CLR	O-STRAIGHT	01 NONE	0	STRAIGHT						000	00	01,05,31
COUNTY	WE	FR	HAPPY VALLEY	MN 0	SE CARVER RD	(04)	(NONE)	N	DRY	SS-M	E-W	PRVTE	01 DRV	NONE	00	Unk	UNK	047,080,053	017	01,05,31	
Y	6P	PORTLAND UA	7.53	SE 142ND AVE	0.4			N	DUSK	PDO	PSNGR CAR		01 DRV	NONE	18	M	SUP	000	000	00	
N	45 24 36 44	-122 31 5.39		017100100S00									02 NONE	0	STOP				000	000	00
01169	N N N N N	04/06/2018	CLACKAMAS	1 14	MN 0 SE CARVER RD	W	STRAIGHT	N	CLR	S-1STOP	01 NONE	9	STRAIGHT						000	00	29
NONE	FR	HAPPY VALLEY	MN 0	SE CARVER RD	(04)	(NONE)	UNKNOWN	N	DRY	REAR	W-E	N/A	01 DRV	NONE	00	Unk	UNK	000	000	00	
N	11A	PORTLAND UA	7.53	SE 142ND AVE	0.4			N	DAY	PDO	PSNGR CAR		01 DRV	NONE	00	Unk	UNK	000	000	00	
N	45 24 36 44	-122 31 5.39		017100100S00									02 NONE	9	STOP				011	00	
02710	N N N N	08/03/2018	CLACKAMAS	1 14	MN 0 SE CARVER RD	W	STRAIGHT	N	CLR	S-STRAIGHT	01 NONE	9	STRAIGHT						000	00	13
NONE	FR	HAPPY VALLEY	MN 0	SE CARVER RD	(04)	(NONE)	UNKNOWN	N	DRY	SS-O	W-E	N/A	01 DRV	NONE	00	Unk	UNK	000	000	00	
N	3P	PORTLAND UA	7.53	SE 142ND AVE	0.4			N	DAY	PDO	PSNGR CAR		01 DRV	NONE	00	Unk	UNK	000	000	00	
N	45 24 36 45	-122 31 5.38		017100100S00									02 NONE	9	STRAIGHT				000	000	00

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OREGON DEPARTMENT OF TRANSPORTATION - TRANSPORTATION DEVELOPMENT DIVISION
TRANSPORTATION DATA SECTION - CRASH ANALYSIS AND REPORTING UNIT
CONTINUOUS SYSTEM CRASH LISTING

Highway 171 ALL ROAD TYPES, MP 7.41 to 7.9 01/01/2015 to 12/31/2019, Both Add and Non-Add mileage

171: CLACKAMAS

Highway 171 ALL ROAD TYPES, MP 7.41 to 7.9 01/01/2015 to 12/31/2019, Both Add and Non-Add mileage

15 - 18

of 52 Crash records shown.

SER#	D M	P R U S W D	COUNTY	RD# FC	CONN#	RD CHAR	INT-TYPE (MEDIAN)	OFFRD	WTHR	CRASH	SPCL USE	NOVE	A S	
INVEST	E A U I C O	O DAY	CITY	COMENT	FIRST STREET	DIRECT	LEG'S	RNDBT	SURF	COLL	TRLR QTY	FROM	G E	
RD DTT	E L G N H R	R TIME	URBAN AREA	MLG TYP	SECOND STREET	LOCNT	(#LANES)	DRWY	LIGHT	SVRTY	V# TYPE	TO	LICNS	
UNLOCK?	D C S V L K	LAT	LONG	MILEPTN LRS	MILEPTN LRS	STRAIGHT	N	CLR	S-1STOP	01 NONE	0	STRAIGHT	PED	
02978	N N N N	08/28/2019	CLACKAMAS	1 14	MN 0 SE CARVER RD	W	(NONE)	N	DRY	REAR	PRVTE	W - E	RES	ACT EVENT CAUSE
NONE	WE		HAPPY VALLEY	MN 0	SE CARVER RD	0.3		N	DRY	INJ	PSNGR CRR			2.9
N	4P		PORTLAND UA	7.55	SE 142ND AVE			N	DAY			01 DRV	40 M	OR-Y
N	45 24 36 .45	-122 31 4.17		017100100S00	(04)			02	NONE	0	STOP	W - E	OR<25	
01837	N N N N N	04/21/2016	CLACKAMAS	1 14	INTER	E	CROSS	N	CLR	S-1STOP	01 NONE	0	STRAIGHT	OR-Y
STATE	TH		HAPPY VALLEY	MN 0	SE CARVER RD	0.6	TRF SIGNAL	N	DRY	REAR	PRVTE	E - W		
N	12P		PORTLAND UA	7.57	SE 142ND AVE	0		N	DAY	INJ	MTRCYCLE		01 DRV	0.00
N	45 24 36 .44	-122 31 3 .3		017100100S00				02	NONE	0	STOP	E - W	OR<25	
04769	N N N N N	10/15/2016	CLACKAMAS	1 14	INTER	E	CROSS	N	RAIN	S-1STOP	01 NONE	0	STRAIGHT	N-RES
COUNTY	SA		HAPPY VALLEY	MN 0	SE CARVER RD	0.6	TRF SIGNAL	N	WET	REAR	PRVTE	E - W		
N	6A		PORTLAND UA	7.57	SE 142ND AVE	0		N	DAY	INJ	PSNGR CRR		01 DRV	17 F
N	45 24 36 .44	-122 31 3 .3		017100100S00				02	NONE	0	STOP	PSNGR CRR	OR<25	
04389	N N N N N	10/21/2017	CLACKAMAS	1 14	INTER	E	CROSS	N	CLD	S-1STOP	01 NONE	0	STRAIGHT	OR-Y
COUNTY	SA		HAPPY VALLEY	MN 0	SE CARVER RD	1	TRF SIGNAL	N	DRY	REAR	PRVTE	E - W		
N	7A		PORTLAND UA	7.57	SE 142ND AVE	0.6		N	DAY	INJ	PSNGR CRR		01 DRV	19 M
N	45 24 36 .44	-122 31 3 .3		017100100S00				01	NONE	0	STOP	PSNGR CRR	OR<25	
								02	NONE	0	STOP	E - W		
								03	NONE	0	STOP	PSNGR CRR	OR<25	

Disclaimer: The information contained in this report is compiled from individual driver and police crash reports submitted to the Oregon Department of Transportation as required in ORS 811.720. The Crash Analysis and Reporting Unit is committed to providing the highest quality crash data to customers. However, because submittal of crash report forms is the responsibility of the individual driver, the Crash Analysis and Reporting Unit can not guarantee that all qualifying crashes are represented or can assure that all details pertaining to a single crash are accurate. Note: Legislative changes to DMV's vehicle crash reporting requirement, effective 01/01/2004, may result in fewer property damage only crashes being eligible for inclusion in the Statewide Crash Data File.

OREGON DEPARTMENT OF TRANSPORTATION - TRANSPORTATION DEVELOPMENT DIVISION
TRANSPORTATION DATA SECTION - CRASH ANALYSIS AND REPORTING UNIT
CONTINUOUS SYSTEM CRASH LISTING

CDS380
01/26/2022
171: CLACKAMAS

Highway 171 ALL ROAD TYPES, MP 7.41 to 7.9 01/01/2015 to 12/31/2019, Both Add and Non-Add mileage

Disclaimer: The information contained in this report is compiled from individual driver and police crash reports submitted to the Oregon Department of Transportation as required in ORS 811.720. The Crash Analysis and Reporting Unit is committed to providing the highest quality crash data to customers. However, because submittal of crash report forms is the responsibility of the individual driver, the Crash Analysis and Reporting Unit can not guarantee that all qualifying crashes are represented nor can assurances be made that all details pertaining to a single crash are accurate. Note: Legislative changes to DMV's vehicle crash reporting requirement, effective 01/01/2004, may result in fewer property damage only crashes being eligible for inclusion in the Statewide Crash Data File.

171: CLACKAMAS

Highway 171 ALL ROAD TYPES, MP 7.41 to 7.9 01/01/2015 to 12/31/2019, Both Add and Non-Add mileage

19 - 22

of 52 Crash records shown.

SER#	D	M	P	R	J	S	W	DATE	COUNTY	RD#	FC	CONN#	RD CHAR	INT-TYPE	(MEDIAN)	OFFRD	WTHR	CRASH	SPCL USE	TRLR QTY	MOVE	FROM	PRTC	INJ	A	S	G	E	LICNS	PED	ACT	EVENT	CAUSE
INVEST	E	A	U	I	C	O	DAY	CITY	COMENT	FIRST STREET	MLG TYP	SECOND STREET	LOCNT	LEGES	TRAF-	RNDBT	SURF	COLL	PRVTE	OWNER	TO	P# TYPE	SRTY	E	X	RES	LOC	ERROR					
RD DTT	E	L	G	N	H	R	TIME	URBAN AREA	MILEPNT LRS	LONG	(#LANES)	CONTL	DRWY	LIGHT	SRTY	V# TYPE																	
05708	N	N	N	N	SA	12/23/2017		CLACKAMAS	1 14	MN 0 SE CARVER RD	INTER	CROSS	N	RAIN	S-1STOP	01	NONE	0	STRGHT	E -W			000	000	000	000	000	000	000	000	29		
NONE								HAPPY VALLEY	7.57	SE 142ND AVE	0.6	0	N	DAY	INJ				PRVTE	PSNGR CAR	01	DRV	NONE	34 F	OR-Y	026	000	000	000	000	000		
N					8A			PORTLAND OR																						29			
N					45 24 36 44	-122 31 3 .3			017100100S00																								
011909	N	N	N	N	05/16/2017			CLACKAMAS	1 14	MN 0 SE CARVER RD	INTER	CROSS	N	RAIN	S-1STOP	01	NONE	9	STRGHT	E -W				000	000	000	000	000	000	000	000	29	
NONE					TU			HAPPY VALLEY	7.57	SE 142ND AVE	0.6	0	N	DAY	PDO			PRVTE	PSNGR CAR	01	DRV	NONE	00 Unk	UNK	000	000	000	000	000	000			
N					9A			PORTLAND OR																									
N					45 24 36 44	-122 31 3 .3			017100100S00																								
011582	N	N	N	N	04/27/2015			CLACKAMAS	1 14	MN 0 SE CARVER RD	INTER	CROSS	N	CLR	S-1STOP	01	NONE	0	STRGHT	W -E				000	000	000	000	000	000	000	000	29	
NONE					MO			HAPPY VALLEY	7.57	SE 142ND AVE	0.6	1	N	DAY	INJ			PRVTE	PSNGR CAR	01	DRV	NONE	49 M	OR-Y	026	000	000	000	000	000			
N					7A			PORTLAND OR																									
N					45 24 36 44	-122 31 3 .3			017100100S00																								
02288	N	N	N	N	05/21/2016			CLACKAMAS	1 14	MN 0 SE CARVER RD	INTER	CROSS	N	RAIN	S-1STOP	01	NONE	0	STRGHT	W -E				000	000	000	000	000	000	000	000	29	
NONE					SA			HAPPY VALLEY	7.57	SE 142ND AVE	0.6	0	N	DAY	INJ			PRVTE	PSNGR CAR	01	DRV	NONE	16 M	OR-Y	026	000	000	000	000	000			
N					6P			PORTLAND OR																									
N					45 24 36 44	-122 31 3 .3			017100100S00																								

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OREGON DEPARTMENT OF TRANSPORTATION - TRANSPORTATION DEVELOPMENT DIVISION
TRANSPORTATION DATA SECTION - CRASH ANALYSIS AND REPORTING UNIT

CONTINUOUS SYSTEM CRASH LISTING

Highway 171 ALL ROAD TYPES, MP 7.41 to 7.9 01/01/2015 to 12/31/2019, Both Add and Non-Add mileage

CDS380
01/26/2022

171: CLACKAMAS

Disclaimer: The information contained in this report is compiled from individual driver and police crash reports submitted to the Oregon Department of Transportation as required in ORS 811.720. The Crash Analysis and Reporting Unit is committed to providing the highest quality crash data to customers. However, because submittal of crash report forms is the responsibility of the individual driver, the Crash Analysis and Reporting Unit can not guarantee that all qualifying crashes are represented or can assure that all details pertaining to a single crash are accurate. Note: Legislative changes to DMV's vehicle crash reporting requirement, effective 01/01/2004, may result in fewer property damage only crashes being eligible for inclusion in the Statewide Crash Data File.

171: CLACKAMAS

Highway 171 ALL ROAD TYPES, MP 7.41 to 7.9 01/01/2015 to 12/31/2019, Both Add and Non-Add mileage

23 - 25 of 52 Crash records shown.

SER#	D M	P R J C W S DATE	COUNTY	RD# FC CONN#	RD CHAR	INT-TYPE (MEDIAN)	OFFRD	WTHR	CRASH	SPCL USE	NOVE	A S	
INVEST	E A U I C O	CITY	COMENT	FIRST STREET	DIRECT	LEG'S	RNDBT	SURF	COLL	TRLR QTY	FROM	G E	
RD DTT	E L G N H R TIME	URBAN AREA	MLG TYP	SECOND STREET	LOCNT	(#LANES)	TRAF-	DRWY	LIGHT	V# TYPE	TO	LICNS	
UNLOC?	D C S V L K LAT	LONG	MILEPNT	IRS	INTER	CROSS	N	CLR	S-1STOP	01 NONE	0	PED	
03164	Y N N N N N 07/14/2016	CLACKAMAS	1 14	SE CARVER RD	W	TRF SIGNAL	N	DRY	REAR	PRVTE	W-E	ACT	CAUSE
STATE	TH	HAPPY VALLEY	MN 0	SE CARVER RD	0.6	1	N	DAY	INJ	PSNGR CAR		047,026	000
N	10A	PORTLAND UA	7.57	SE 142ND AVE							01 DRV	63 F	OR-Y
N	45 24 36 44	-122 31 3 .3	017100100S00								02 NONE	0	OR<25
03213	N N N N N 07/16/2016	CLACKAMAS	1 14	SE CARVER RD	W	TRF SIGNAL	N	DRY	S-1STOP	01 NONE	0	STRAIGHT	01,29
NONE	SA	HAPPY VALLEY	MN 0	SE CARVER RD	0.6	1	N	DAY	INJ	PSNGR CAR		000	00
N	7P	PORTLAND UA	7.57	SE 142ND AVE							01 DRV	NONE	026
N	45 24 36 44	-122 31 3 .3	017100100S00								02 NONE	0	OR<25
00043	N N N N N N 01/05/2018	CLACKAMAS	1 14	SE CARVER RD	CN	TRF SIGNAL	N	WET	TURN	PRVTE	E-W	ACT	CAUSE
COUNTRY	FR	HAPPY VALLEY	MN 0	SE CARVER RD	0.1	1	N	DAY	INJ	PSNGR CAR		000	00
N	8A	PORTLAND UA	7.57	SE 142ND AVE							01 DRV	INJC	27 F
N	45 24 36 45	-122 31 3 .32	017100100S00								02 PSNG	INJC	16 F
03424	N N N N N N 02/04/2018	CLACKAMAS	1 14	SE CARVER RD	CN	TRF SIGNAL	N	DRY	O-1 L-TURN	01 NONE	0	STRAIGHT	02,08
CITY	SU	HAPPY VALLEY	MN 0	SE CARVER RD	0.1	1	N	DAY	INJ	PSNGR CAR		000	00
N	4P	PORTLAND UA	7.57	SE 142ND AVE							01 DRV	INJC	27 F
N	45 24 36 44	-122 31 3 .3	017100100S00								02 NONE	0	OR<25
											02 NONE	0	TURN-L
											PRVTE	W-N	OR-Y
											01 DRV	NONE	028,004
											000	000	00
											000	000	02,08
											01 DRV	N-E	27,04,32
											020,052	037	27,04,32
											000	000	00

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OREGON DEPARTMENT OF TRANSPORTATION - TRANSPORTATION DEVELOPMENT DIVISION
TRANSPORTATION DATA SECTION - CRASH ANALYSIS AND REPORTING UNIT

CONTINUOUS SYSTEM CRASH LISTING

Highway 171 ALL ROAD TYPES, MP 7.41 to 7.9 01/01/2015 to 12/31/2019, Both Add and Non-Add mileage

CDS380
01/26/2022

171: CLACKAMAS

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171: CLACKAMAS

Highway 171 ALL ROAD TYPES, MP 7.41 to 7.9 01/01/2015 to 12/31/2019, Both Add and Non-Add mileage

26 - 30

OF 52 Crash records shown.

SER#	D M	P R U S W DATE	COUNTY	RD# FC	CONN#	RD CHAR	INT-TYPE (MEDIAN)	OFFRD	WTHR	CRASH	SPCL USE	NOVE	A S
INVEST	E A U I C O DAY	CITY	COMENT	FIRST STREET		DIRECT	TRAF- LEGES	RNDBT	SURF	COLL	TRLR QTY	FROM	G E
RD DTT	E L G N H R TIME	URBAN AREA	MLG TYP	SECOND STREET		LOCNT	DRWY	LIGHT	SWRTY	V# TYPE	OWNER	PTC	LICNS
UNLOCK?	D C S V L K DAT	LONG	MILEPNT	IRS	(#LINES)	CONTL				02 NONE 0	TO	P# TYPE	PED
03315	N N N N N	09/19/2018	CLACKAMAS	1 14		INTER	CROSS	N	CLR	S-OTHER	01 NONE 0	TURN-R	
COUNTY	WE		HAPPY VALLEY	MN 0	SE CARVER RD	CN	TRF SIGNAL	N	DRY	TURN	PRVTE	N -W	
N	9A		PORTLAND UA	7.57	SE 142ND AVE	01	1	N	DAY	INJ	PSNGR CAR		01 DRVR INJB
N	45 24 36 .44	-122 31 3 .29		017100100S00						02 NONE 1	TURN-R	OR<25	
04164	N N N N N	11/14/2018	CLACKAMAS	1 14		INTER	CROSS	N	CLR	ANGL-OTH	01 NONE 0	TURN-R	
COUNTY	WE		HAPPY VALLEY	MN 0	SE CARVER RD	CN	TRF SIGNAL	N	DRY	TURN	PRVTE	N -W	
N	9A		PORTLAND UA	7.57	SE 142ND AVE	01	0	N	DAY	INJ	PSNGR CAR		01 DRVR INJC
N	45 24 36 .47	-122 31 3 .28		017100100S00						02 NONE 0	STRAIGHT	OR<25	
03012	N N N N	06/13/2019	CLACKAMAS	1 14		INTER	CROSS	N	CLR	ANGL-OTH	01 NONE 9	STRAIGHT	
NONE	TH		HAPPY VALLEY	MN 0	SE CARVER RD	CN	TRF SIGNAL	N	DRY	TURN	N/A	N -S	
N	6P		PORTLAND UA	7.57	SE 142ND AVE	01	0	N	DAY	PDO	PSNGR CAR		01 DRVR INJC
N	45 24 36 .45	-122 31 3 .3		017100100S00						02 NONE 9	TURN-L	OR<25	
01645	N N N N N	05/20/2019	CLACKAMAS	1 14		INTER	CROSS	N	CLR	O-1 L-TURN	01 NONE 9	STRAIGHT	
COUNTY	MO		HAPPY VALLEY	MN 0	SE CARVER RD	CN	TRF SIGNAL	N	DRY	TURN	N/A	N -S	
N	11A		PORTLAND UA	7.57	SE 142ND AVE	01	1	N	DAY	PDO	PSNGR CAR		01 DRVR INJC
N	45 24 36 .44	-122 31 3 .3		017100100S00						02 NONE 9	TURN-L	UNK	
01498	N N N N N	05/03/2018	CLACKAMAS	1 14		INTER	CROSS	N	CLR	O-1 L-TURN	01 NONE 0	STRAIGHT	
STATE	TH		HAPPY VALLEY	MN 0	SE CARVER RD	CN	TRF SIGNAL	N	DRY	TURN	PRVTE	E -W	
N	6A		PORTLAND UA	7.57	SE 142ND AVE	02	0	N	DAWN	INJ	PSNGR CAR		01 DRVR INJC
N	45 24 36 .44	-122 31 3 .31		017100100S00						02 NONE 9	TURN-L	UNK	
										01 DRVR INJC	UNK	000 000	000 000
										01 DRVR INJC	UNK	000 000	000 000
										01 DRVR INJC	UNK	000 000	000 000

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OREGON DEPARTMENT OF TRANSPORTATION - TRANSPORTATION DEVELOPMENT DIVISION
TRANSPORTATION DATA SECTION - CRASH ANALYSIS AND REPORTING UNIT

CONTINUOUS SYSTEM CRASH LISTING

Highway 171 ALL ROAD TYPES, MP 7.41 to 7.9 01/01/2015 to 12/31/2019, Both Add and Non-Add mileage

CDS380
01/26/2022

171: CLACKAMAS

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171: CLACKAMAS

Highway 171 ALL ROAD TYPES, MP 7.41 to 7.9 01/01/2015 to 12/31/2019, Both Add and Non-Add mileage

31 -

35

of 52 Crash records shown.

SER#	D M	P R U S W DATE	COUNTY	RD# FC	CONN#	RD CHAR	INT-TYPE (MEDIAN)	OFFRD	WTHR	CRASH	SPCL USE	NOVE	A S	
INVEST	E A U I C O DAY	CITY	COMENT	FIRST STREET	LEGNS	RNDBT SURF	COLL	TRLR QTY	OWNER	FROM	G E	LICNS	PED	
RD DTT	E L G N H R TIME	URBAN AREA	MLG TYP	SECOND STREET	(#LANES)	DRWY	LIGHT	V# TYPE	TO	PRTC	INJ	X RES	LOC	
UNLOCK?	D C S V L K DAT	LONG	MILEPTN	IRS	CONTNL					## TYPE	STRTY	E	ACT EVENT	CAUSE
03126	N N N N	09 / 06 / 2018	CLACKAMAS	1 14		INTER	CROSS	N	CLR	O-1 L-TURN	01 NONE	0	013	02,08
COUNTY	TH		HAPPY VALLEY	MN 0 SE CARVER RD	CN		TRF SIGNAL	N	DRY	TURN	PRVTE	E -N	000	00
N	4P		PORTLAND UA	7.57 SE 142ND AVE	02	1		N	DAY	INJ	PSNGR CAR	01 DRVR	INJC	23 F
N	45 24 36 .44	-122 31 3 .3		017100100S00								028 <25	000	00
03520	N N N N N	10 / 02 / 2018	CLACKAMAS	1 14		INTER	CROSS	N	CLR	O-1 L-TURN	01 NONE	0	02,04	
STATE	TU		HAPPY VALLEY	MN 0 SE CARVER RD	CN		TRF SIGNAL	N	DRY	TURN	PRVTE	E -W	000	00
N	6P		PORTLAND UA	7.57 SE 142ND AVE	02	1		N	DAY	INJ	PSNGR CAR	01 DRVR	INJB	16 F
N	45 24 36 .45	-122 31 3 .31		017100100S00								028 <25	000	00
04658	N N N N N	12 / 31 / 2018	CLACKAMAS	1 14		INTER	CROSS	N	CLR	O-1 L-TURN	01 NONE	0	02,08	
COUNTY	MO		HAPPY VALLEY	MN 0 SE CARVER RD	CN		TRF SIGNAL	N	DRY	TURN	PRVTE	E -W	000	00
N	10P		PORTLAND UA	7.57 SE 142ND AVE	02	1		N	DLIT	INJ	PSNGR CAR	01 DRVR	INJC	42 M
N	45 24 36 .44	-122 31 3 .31		017100100S00								N-RES	000	02
04944	N N N N N	11 / 22 / 2017	CLACKAMAS	1 14		INTER	CROSS	N	RAIN	O-1 L-TURN	01 NONE	9	02,08	
COUNTRY	WE		HAPPY VALLEY	MN 0 SE CARVER RD	CN		TRF SIGNAL	N	WET	TURN	N/A	E -S	000	00
N	11P		PORTLAND UA	7.57 SE 142ND AVE	03	1		N	DLIT	PDO	PSNGR CAR	01 DRVR	NONE	00 Unk UNK
N	45 24 36 .44	-122 31 3 .3		017100100S00								028 <25	000	00

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OREGON DEPARTMENT OF TRANSPORTATION - TRANSPORTATION DEVELOPMENT DIVISION
TRANSPORTATION DATA SECTION - CRASH ANALYSIS AND REPORTING UNIT

CONTINUOUS SYSTEM CRASH LISTING

Highway 171 ALL ROAD TYPES, MP 7.41 to 7.9 01/01/2015 to 12/31/2019, Both Add and Non-Add mileage

CDS380
01/26/2022

171: CLACKAMAS

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171: CLACKAMAS

Highway 171 ALL ROAD TYPES, MP 7.41 to 7.9 01/01/2015 to 12/31/2019, Both Add and Non-Add mileage

36 - 39 of 52 Crash records shown.

SER#	D M	P R J U S W D	COUNTY	RD# FC CONN#	RD CHAR	INT-TYPE (MEDIAN)	OFFRD	WTHR	CRASH	SPCL USE	MOVE	A S	PRTC	INJ	G E	LICNS	PED	ACT	EVENT	CAUSE
INVEST	E A U I C O	DAY	CITY	COMENT FIRST STREET	LOCNT	LEG'S TRAF-	RNDBT	SURF	COLL	TRLR QTY	FROM	P# TYPE	SVRY	E X RES	LOC	ERROR				
RD DTT	E L G N H R TIME	TU	URBAN AREA	MLG TYP SECOND STREET	(#LANES)	CONT'L	DRWY	LIGHT	SVRTY	V# TYPE	TO									
UNLOCK?	D C S V L K LAT	LONG	MILEPOST LRS	INTER	CROSS	N	RAIN	O-1 L-TURN	01 NONE	0	STRIGHT									
00900	N N N N N N	03/13/2018	CLACKAMAS	1 14	CN	TRF SIGNAL	WET	TURN	PRVTE	W-E								02,08		
COUNTY			HAPPY VALLEY	MN 0 SE CARVER RD	0.3		N	DAY	INJ	PSNGR CAR		01 DRVR	INJC	33 F	OR-Y	000	000	00	00	
N	10A		PORTLAND OR	7.57 SE 142ND AVE	1		N													
N	45 24 36 .44	-122 31 3 .3		017100100S00																
00483	N N N N	02/06/2015	CLACKAMAS	1 14	INTER	CN	RAIN	ANGL-OTH	01 NONE	0	STRIGHT							04		
NONE			HAPPY VALLEY	MN 0 SE CARVER RD	0.4	TRF SIGNAL	WET	TURN	PRVTE	W-E								000	00	
N	6A		PORTLAND OR	7.57 SE 142ND AVE	1	DLIT	PDO	PSNGR CAR			01 DRVR	INJC	33 F	OR-Y	000	000	00	00		
N	45 24 36 .44	-122 31 3 .3		017100100S00																
04706	N N N N N N	12/21/2018	CLACKAMAS	1 14	INTER	CN	CLR DRY	O-1 L-TURN	01 NONE	0	TURN-L							02		
COUNTY			HAPPY VALLEY	MN 0 SE CARVER RD	0.4	TRF SIGNAL	N	DARK	INJ	PSNGR CAR		01 DRVR	INJC	23 F	OTH-Y	028	000	00	02	
N	6P		PORTLAND OR	7.57 SE 142ND AVE	0		N													
N	45 24 36 .44	-122 31 3 .31		017100100S00																
04359	N N N N N N	12/05/2019	CLACKAMAS	1 14	STRGHT	E (NONE)	N	CLR DRY	S-STRGHT	01 NONE	0	STRIGHT						092	27	
STATE	TH		HAPPY VALLEY	MN 0 SE CARVER RD	0.3		N	DAY	INJ	PSNGR CAR		01 DRVR	INJC	40 M	SUSP	016,042	038	000	00	
N	4P		PORTLAND OR	7.59 SE 142ND AVE	(04)		N												27	
N	45 24 36 .52	-122 31 1 .99		017100100S00																
02065	N N N N	05/26/2017	CLACKAMAS	1 14	STRGHT	E (NONE)	N	CLR DRY	S-1STOP REAR	01 NONE	0	STRIGHT						29		
NONE			HAPPY VALLEY	MN 0 SE CARVER RD	0.5		N	DAY	INJ	PSNGR CAR		01 DRVR	INJC	19 M	OR-Y	026	000	00	29	
N	7P		PORTLAND OR	7.59 SE 142ND AVE	(04)															
N	45 24 36 .52	-122 31 2 .04		017100100S00																

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OREGON DEPARTMENT OF TRANSPORTATION - TRANSPORTATION DEVELOPMENT DIVISION
TRANSPORTATION DATA SECTION - CRASH ANALYSIS AND REPORTING UNIT

CONTINUOUS SYSTEM CRASH LISTING

Highway 171 ALL ROAD TYPES, MP 7.41 to 7.9 01/01/2015 to 12/31/2019, Both Add and Non-Add mileage

CDS380
01/26/2022

171: CLACKAMAS

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171: CLACKAMAS

Highway 171 ALL ROAD TYPES, NP 7.41 to 7.9 01/01/2015 to 12/31/2019, Both Add and Non-Add mileage

40 - 44

OF 52 Crash records shown.

SER#	D	M	P	R	J	S	W	DATE	COUNTY	RD#	FC	CONN#	RD CHAR	INT-TYPE	(MEDIAN)	OFFRD	WTHR	CRASH	TRLR QTY	NOVE	A	S	PRTC	INJ	G	E	LICNS	PED	ACT	EVENT	CAUSE			
INVEST	E	A	U	I	C	O		CITY	COMENT	FIRST STREET	LOCNT	LEGES	TRAF-	RNDBT	SURF	COLL	DRWY	LIGHT	SVRTY	V# TYPE	FROM	#	PRTYPE	STRTY	E	X	RES	LOC	ERROR					
RD DTT	E	L	G	N	H	R	TIME	URBAN AREA	MLG TYP	SECOND STREET	(#LNNS)	CONTL								02	NONE	0	STOP	E-W	PRVTE	PSNGR	CR			011	00			
UNLOCK?	D	C	S	V	L	K	DAT	LONG	MILEPTN	IRS										02	NONE	0	STOP	E-W	PRVTE	PSNGR	CR			000	000			
04453	N	N	N	N	11/28/2018				CLACKAMAS	1	14	MN 0	SE CARVER RD	STRAIGHT	E	(NONE)	N	N	RAIN	S-1STOP	01	NONE	9	STRIGHT	E-W	PRVTE	PSNGR	CR			000	000	29	
NONE			WE					HAPPY VALLEY		06							N	WET	REAR		N/A										000	000		
N			7A					PORTLAND	UA	7.59	SE 142ND AVE						N	DLIT	PDO													000	000	
N			45 24 36 .53					-122 31 2.04									(04)														000	000		
04249	N	N	N	N	09/15/2016				CLACKAMAS	1	14	MN 0	SE CARVER RD	STRAIGHT	E	(NONE)	N	UNKNOWN	CLR	S-1STOP	01	NONE	9	STRIGHT	E-W	PRVTE	PSNGR	CR			000	000	29	
NO RET			TH					HAPPY VALLEY		06							N	DRY	REAR		N/A													
N			4P					PORTLAND	UA	7.61	SE 142ND AVE						N	DAY	PDO													000	000	
N			45 24 36 .6					-122 31 .79									(04)																	
04924	N	N	N	N	11/20/2015				CLACKAMAS	1	14	MN 0	SE CARVER RD	STRAIGHT	W	(NONE)	N	UNKNOWN	CLR	S-1STOP	01	NONE	0	STRIGHT	W-E	PRVTE	PSNGR	CR			000	000	29	
CITY			FR					HAPPY VALLEY		03							N	DARK	PDO															
N			5P					PORTLAND	UA	7.62	SE 142ND AVE						N	UNKNOWN																
N			45 24 36 .63					-122 31 .16									(04)																	
00501	N	N	N	N	02/06/2017				CLACKAMAS	1	14	MN 0	SE CARVER RD	STRAIGHT	E	(NONE)	N	UNKNOWN	Y	RAIN	FIX OBJ	01	NONE	9	BACK	W-E	PRVTE	PSNGR	CR			000	000	10
NONE			NO					HAPPY VALLEY		07							N	DARK	PDO															
Y			6A					PORTLAND	UA	7.68	SE 142ND AVE						N	UNKNOWN																
N			45 24 36 .75					-122 30 56 .4									(04)																	

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OREGON DEPARTMENT OF TRANSPORTATION - TRANSPORTATION DEVELOPMENT DIVISION
TRANSPORTATION DATA SECTION - CRASH ANALYSIS AND REPORTING UNIT
CONTINUOUS SYSTEM CRASH LISTING

CDS380
01/26/2022
171: CLACKAMAS

Highway 171 ALL ROAD TYPES, MP 7.41 to 7.9 01/01/2015 to 12/31/2019, Both Add and Non-Add mileage

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171: CLACKAMAS

Highway 171 ALL ROAD TYPES, MP 7.41 to 7.9 01/01/2015 to 12/31/2019, Both Add and Non-Add mileage

45 - 48

OF 52 Crash records shown.

SER#	D	M	P	R	J	S	W	DATE	COUNTY	RD#	FC	CONN#	RD CHAR	INT-TYPE	OFFRD	WTHR	CRASH	SPCL USE	NOVR	FROM	PRTC	INJ	A	S	LICNS	PED	ACT	EVENT	CAUSE	
INVEST	E	A	U	I	C	O	DAY	CITY	COMENT	FIRST STREET	MLG TYP	SECOND STREET	LOCN	(MEDIAN)	INT-REL	RNDBT	SURF	COLL	TRLR QTY	OWNER	P# TYPE	TO	P# TYPE	SVRY	E	X	RES	LOC	ERROR	
RD DTT	E	L	G	N	H	R	TIME	URBN AREA	MLFNTN LRS	LONG	(#LANES)	CONTL	DRWY	LIGHT	SVRTY	V# TYPE														
UNLOC?	D	C	S	V	L	K	LAT																							
03081	N	N	N	N	N	N	07/08/2016	CLACKAMAS	1 14	MN 0	SE CARVER RD	B	(NONE)	N	CLR	S-1STOP	01 NONE	0	STRIGHT	W-E		000	000	000	000	000	000	000	000	29
NO RPT								HAPPY VALLEY	7.79	SE 142ND AVE	0.3			N	DRY	REAR	01	PRVTE	PRVTE	DRVR	INJC	34 M	OR-Y	026	000	000	000	000	000	
N								PORTLAND ORA	7.80					N	DAY	INJ		PSNGR CAR											29	
N	45	24	36	33	-122	30	49.23						(04)																	
02661	N	N	N	N	N	N	07/31/2018	CLACKAMAS	1 14	MN 0	SE CARVER RD	B	(NONE)	N	CLR	S-STRGHT	01 NONE	0	STRIGHT	W-E		000	000	000	000	000	000	000	000	07
STATE								HAPPY VALLEY	7.80	SE 142ND AVE	0.3			N	DRY	REAR	01	PRVTE	PRVTE	DRVR	INJC	40 M	OTH-Y	043	000	000	000	000	000	
N								PORTLAND ORA	7.80					N	DAY	INJ		PSNGR CAR												
N	45	24	36	28	-122	30	48.53						(04)																	
01799	N	N	N	N	N	N	05/25/2018	CLACKAMAS	1 14	MN 0	SE CARVER RD	B	(NONE)	N	CLR	S-1STOP	01 NONE	9	STRIGHT	W-E		000	000	000	000	000	000	000	000	16-29
COUNTRY								HAPPY VALLEY	7.80	SE 142ND AVE	0.4			N	DRY	REAR	N/A	PSNGR CAR			DRVR	INJC	19 F	OR-Y	000	000	000	000	000	
N								PORTLAND ORA	7.80					N	DAY	PDO														
N	45	24	36	27	-122	30	48.49						(04)																	
02380	N	N	N	N	N	N	07/09/2018	CLACKAMAS	1 14	MN 0	CARVER RD	W	(NONE)	N	UNK	S-1STOP	01 NONE	9	STRIGHT	UN-UN		000	000	000	000	000	000	000	000	29
NONE								HAPPY VALLEY	7.81	152ND AVE	0.0			N	UNK	REAR	N/A	PSNGR CAR			DRVR	INJC	00 M	UNK UNK	000	000	000	000	000	
N								PORTLAND ORA	7.81					N	DAY	PDO														
N	45	24	36	22	-122	30	47.8						(04)																	

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OREGON DEPARTMENT OF TRANSPORTATION - TRANSPORTATION DEVELOPMENT DIVISION
TRANSPORTATION DATA SECTION - CRASH ANALYSIS AND REPORTING UNIT

CONTINUOUS SYSTEM CRASH LISTING

Highway 171 ALL ROAD TYPES, MP 7.41 to 7.9 01/01/2015 to 12/31/2019, Both Add and Non-Add mileage

CDS380
01/26/2022

171: CLACKAMAS

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171: CLACKAMAS

Highway 171 ALL ROAD TYPES, MP 7.41 to 7.9 01/01/2015 to 12/31/2019, Both Add and Non-Add mileage

49 - 52 of 52 Crash records shown.

SER#	D M	P R U S W D	COUNTY	RD# FC	CONN#	RD CHAR	INT-TYPE (MEDIAN)	INT-REL	OFFRD	WTHR	CRASH	SPCL USE	MOVE	A S	PRTC	INJ	G E	LICNS	PED	ACT	EVENT	CAUSE
INVEST	E A U I C O	DAY	CITY	COMENT	FIRST STREET	DIRECT	LEGES	TRAF-	RNDBT	SURF	COLL	TRLR QTY	OWNER	FROM	P# TYPE	SVRY	E X	RES	LOC	ERROR		
RD DTT	E L G N H R	TIME	URBAN AREA	MLG TYP	SECOND STREET	LOCNT	(#LANES)	CONTL	DRWY	LIGHT	SVRTY	V# TYPE	TO									
UNLOCK?	D C S V L K	LAT	LONG	MILEPNT LRS	MILEPNT LRS	(04)	N	(NONE)	N	Y	CLR	FIX OBJ	01 NONE	9	STRIGHT							
04774	N N N N	MO	PORTLAND OR	1 14	SE CARVER RD	B	(NONE)	N	N	DRY	FIX	N/A	W-E								079-06116	
Y	4 P			5N 0	SE CARVER RD	0.1		N	N	DUSK	PDO	PSNGR CAR	01 DRV	NONE	00	UNK UNK	000	000	000	000	00	
N	45 24 36.15	-122 30 47.09	CLACKAMAS	1	14	STRIGHT	W	(04)	N	RAIN	S-STRIGHT	01 NONE	0	STRIGHT								
04927	N N N N N N	MO	HAPPY VALLEY	MN 0	CARVER RD	0.1	(NONE)	N	UNKNOWN	WET	REAR	PRVTE	E-W								0.00	
COUNTY	TU			7.88	152ND AVE	0.3		N	N	DUSK	INJ	PSNGR CAR	01 DRV	NONE	57	F	OR-Y	042	000	000	29	
N	4 P			7.88	152ND AVE	0.3		N	N	DUSK	INJ	PSNGR CAR	02 NONE	0	STRIGHT	E-W	PRVTE	PSNGR CAR	01 DRV	NONE	000	000
N	45 24 35.81	-122 30 42.79	CLACKAMAS	1	14	STRIGHT	W	(04)	N	RAIN	S-1STOP	01 NONE	9	STRIGHT								
01141	Y N N N N N	FR	HAPPY VALLEY	MN 0	CARVER RD	0.6	(NONE)	N	UNKNOWN	WET	REAR	N/A	E-W								01,07	
COUNTY				7.89	152ND AVE	0.6		N	N	DARK	PDO	PSNGR CAR	01 DRV	NONE	00	UNK UNK	000	000	000	00		
N	7 P			017100100S00				N	N	DLIT	PDO	PSNGR CAR	02 NONE	9	STOP	E-W	PRVTE	PSNGR CAR	01 DRV	NONE	000	000
N	45 24 35.75	-122 30 42.07	CLACKAMAS	1	14	STRIGHT	W	(04)	N	UNK	SS-O	PRVTE	E-W									
00228	N N N N	MO	HAPPY VALLEY	MN 0	SE CARVER RD	0.4	(NONE)	N	UNKNOWN	WET	DLIT	PSNGR CAR	01 DRV	NONE	37	F	OR-Y	045	000	000	13	
N	6 A			7.90	SE 142ND AVE	0.4		N	N	DLIT	PDO	PSNGR CAR	02 NONE	0	STRIGHT	E-W	PRVTE	PSNGR CAR	01 DRV	NONE	000	00
N	45 24 35.69	-122 30 41.35	CLACKAMAS	1	14	STRIGHT	W	(04)	N	UNK	SS-O	PRVTE	E-W									
N	45 24 35.69	-122 30 41.35	CLACKAMAS	1	14	STRIGHT	W	(04)	N	UNK	SS-O	PRVTE	E-W									
N	45 24 35.69	-122 30 41.35	CLACKAMAS	1	14	STRIGHT	W	(04)	N	UNK	SS-O	PRVTE	E-W									
N	45 24 35.69	-122 30 41.35	CLACKAMAS	1	14	STRIGHT	W	(04)	N	UNK	SS-O	PRVTE	E-W									
N	45 24 35.69	-122 30 41.35	CLACKAMAS	1	14	STRIGHT	W	(04)	N	UNK	SS-O	PRVTE	E-W									

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Traffic Signal Warrant Analysis



Project: Iseli Estates
 Date: 2/18/2022
 Scenario: Year 2024 Buildout

Major Street: SE 142nd Avenue Minor Street: SE Wenzel Drive

Number of Lanes:	1	Number of Lanes:	1
PM Peak Hour Volumes:	517	PM Peak Hour Volumes:	27

Warrant Used:

- 100 percent of standard warrants used
 70 percent of standard warrants used due to 85th percentile speed in excess of 40 mph or isolated community with population less than 10,000.

Number of Lanes for Moving Traffic on Each Approach:		ADT on Major St. (total of both approaches)		ADT on Minor St. (higher-volume approach)	
<u>Major St.</u>	<u>Minor St.</u>	<u>Warrants</u>	<u>Warrants</u>	<u>Warrants</u>	<u>Warrants</u>
1	1	8,850	6,200	2,650	1,850
2 or more	1	10,600	7,400	2,650	1,850
2 or more	2 or more	10,600	7,400	3,550	2,500
1	2 or more	8,850	6,200	3,550	2,500

<u>WARRANT 1, CONDITION A</u>					
<u>Major St.</u>	<u>Minor St.</u>	<u>Warrants</u>	<u>Warrants</u>	<u>Warrants</u>	<u>Warrants</u>
1	1	13,300	9,300	1,350	950
2 or more	1	15,900	11,100	1,350	950
2 or more	2 or more	15,900	11,100	1,750	1,250
1	2 or more	13,300	9,300	1,750	1,250

<u>WARRANT 1, CONDITION B</u>					
<u>Major St.</u>	<u>Minor St.</u>	<u>Warrants</u>	<u>Warrants</u>	<u>Warrants</u>	<u>Warrants</u>
1	1	13,300	9,300	1,350	950
2 or more	1	15,900	11,100	1,350	950
2 or more	2 or more	15,900	11,100	1,750	1,250
1	2 or more	13,300	9,300	1,750	1,250

Note: ADT volumes assume 8th highest hour is 5.6% of the daily volume

	Approach Volumes	Minimum Volumes	Is Signal Warrant Met?
<i>Warrant 1</i>			
<i>Condition A: Minimum Vehicular Volume</i>			
Major Street	5,170	8,850	
Minor Street*	270	2,650	No
<i>Condition B: Interruption of Continuous Traffic</i>			
Major Street	5,170	13,300	
Minor Street*	270	1,350	No
<i>Combination Warrant</i>			
Major Street	5,170	10,640	
Minor Street*	270	2,120	No

* Minor street right-turning traffic volumes reduced by 25%

Left-Turn Lane Warrant Analysis



Project: Iseli Estates
 Intersection: Wenzel Drive at SE 142nd Avenue
 Date: 2/18/2022
 Scenario: 2024 buildout conditions MD NB

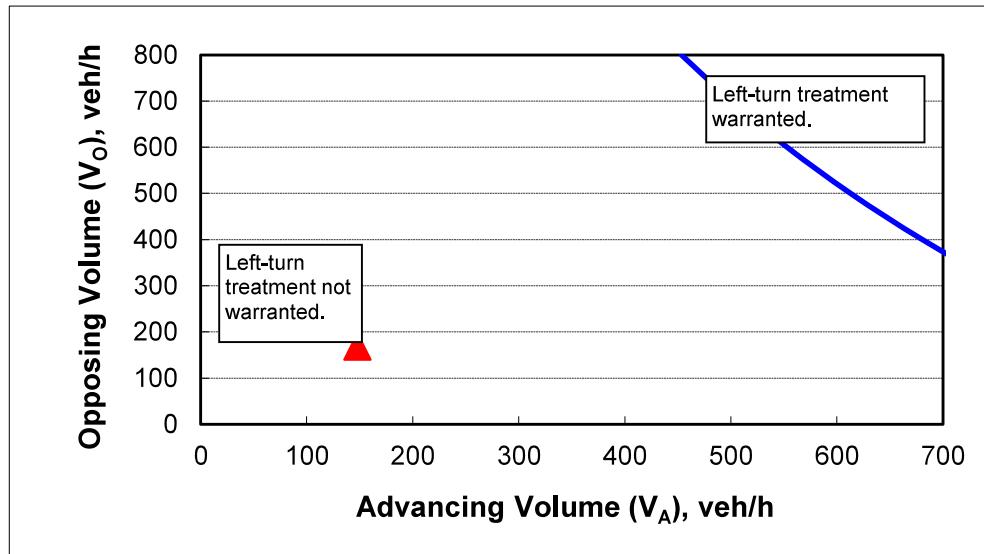
2-lane roadway (English)

INPUT

Variable	Value
85 th percentile speed, mph:	40
Percent of left-turns in advancing volume (V_A), %:	3%
Advancing volume (V_A), veh/h:	148
Opposing volume (V_O), veh/h:	168

OUTPUT

Variable	Value
Limiting advancing volume (V_A), veh/h:	878
Guidance for determining the need for a major-road left-turn bay:	
Left-turn treatment NOT warranted.	



CALIBRATION CONSTANTS

Variable	Value
Average time for making left-turn, s:	3.0
Critical headway, s:	5.0
Average time for left-turn vehicle to clear the advancing lane, s:	1.9

Left-Turn Lane Warrant Analysis



Project: Iseli Estates
 Intersection: Wenzel Drive at SE 142nd Avenue
 Date: 2/18/2022
 Scenario: 2024 buildout conditions PM NB

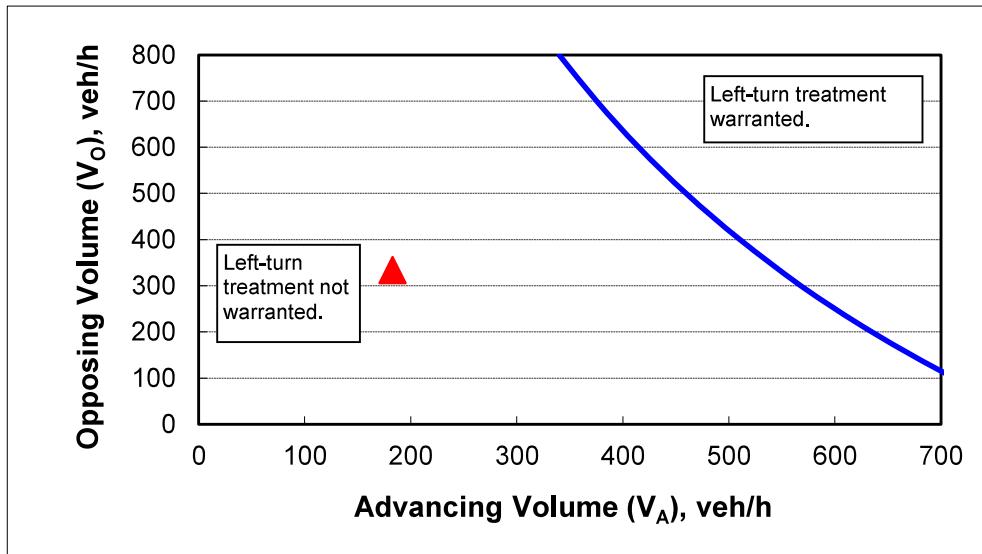
2-lane roadway (English)

INPUT

Variable	Value
85 th percentile speed, mph:	40
Percent of left-turns in advancing volume (V_A), %:	5%
Advancing volume (V_A), veh/h:	183
Opposing volume (V_O), veh/h:	334

OUTPUT

Variable	Value
Limiting advancing volume (V_A), veh/h:	548
Guidance for determining the need for a major-road left-turn bay:	
Left-turn treatment NOT warranted.	



CALIBRATION CONSTANTS

Variable	Value
Average time for making left-turn, s:	3.0
Critical headway, s:	5.0
Average time for left-turn vehicle to clear the advancing lane, s:	1.9

Appendix D – Operations

Capacity Reports

HCM 6th Signalized Intersection Summary

3: SE 142nd Avenue & Highway 224/212

02/03/2022

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	49	1093	19	4	2203	54	53	9	14	41	4	164
Future Volume (veh/h)	49	1093	19	4	2203	54	53	9	14	41	4	164
Initial Q (Q _b), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1826	1826	1826	1870	1870	1870	1796	1796	1796	1841	1841	1841
Adj Flow Rate, veh/h	51	1139	0	4	2295	40	55	9	3	43	4	110
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	5	5	5	2	2	2	7	7	7	4	4	4
Cap, veh/h	143	2513		362	2469	1101	155	21	243	70	21	121
Arrive On Green	0.03	0.72	0.00	0.01	0.69	0.69	0.15	0.15	0.15	0.15	0.15	0.15
Sat Flow, veh/h	1739	3469	1547	1781	3554	1585	633	136	1522	201	134	784
Grp Volume(v), veh/h	51	1139	0	4	2295	40	64	0	3	157	0	0
Grp Sat Flow(s), veh/h/ln	1739	1735	1547	1781	1777	1585	770	0	1522	1118	0	0
Q Serve(g_s), s	0.9	15.7	0.0	0.1	64.8	0.9	0.0	0.0	0.2	7.4	0.0	0.0
Cycle Q Clear(g_c), s	0.9	15.7	0.0	0.1	64.8	0.9	9.3	0.0	0.2	16.6	0.0	0.0
Prop In Lane	1.00		1.00	1.00		1.00	0.86		1.00	0.27		0.70
Lane Grp Cap(c), veh/h	143	2513		362	2469	1101	176	0	243	212	0	0
V/C Ratio(X)	0.36	0.45		0.01	0.93	0.04	0.36	0.00	0.01	0.74	0.00	0.00
Avail Cap(c_a), veh/h	157	2513		430	2548	1137	176	0	243	212	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(l)	1.00	1.00	0.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	29.6	6.6	0.0	5.9	15.3	5.6	45.3	0.0	41.2	49.1	0.0	0.0
Incr Delay (d2), s/veh	1.5	0.1	0.0	0.0	6.7	0.0	1.2	0.0	0.0	12.9	0.0	0.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%), veh/ln	1.0	4.6	0.0	0.0	22.8	0.3	1.7	0.0	0.1	5.2	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	31.1	6.7	0.0	5.9	22.0	5.6	46.6	0.0	41.2	62.0	0.0	0.0
LnGrp LOS	C	A		A	C	A	D	A	D	E	A	A
Approach Vol, veh/h	1190		A		2339			67			157	
Approach Delay, s/veh	7.8				21.7			46.3			62.0	
Approach LOS		A				C			D		E	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	5.1	88.8		22.5	8.5	85.4		22.5				
Change Period (Y+Rc), s	4.5	4.5		4.5	4.5	4.5		4.5				
Max Green Setting (Gmax), s	5.0	83.5		18.0	5.0	83.5		18.0				
Max Q Clear Time (g_c+l1), s	2.1	17.7		18.6	2.9	66.8		11.3				
Green Ext Time (p_c), s	0.0	10.0		0.0	0.0	14.1		0.1				

Intersection Summary

HCM 6th Ctrl Delay 19.4
HCM 6th LOS B

Notes

Unsignalized Delay for [EBR] is excluded from calculations of the approach delay and intersection delay.

HCM 6th Signalized Intersection Summary
1: SE 142nd Avenue & SE Sunnyside Road

02/02/2022

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	34	1004	116	75	859	10	147	9	67	12	11	32
Future Volume (veh/h)	34	1004	116	75	859	10	147	9	67	12	11	32
Initial Q (Q _b), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	37	1091	126	82	934	11	160	10	73	13	12	35
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	394	1504	671	370	1633	19	399	38	278	365	82	240
Arrive On Green	0.04	0.42	0.42	0.07	0.45	0.45	0.20	0.20	0.20	0.20	0.20	0.20
Sat Flow, veh/h	1781	3554	1585	1781	3597	42	1359	195	1420	1315	421	1228
Grp Volume(v), veh/h	37	1091	126	82	461	484	160	0	83	13	0	47
Grp Sat Flow(s), veh/h/ln	1781	1777	1585	1781	1777	1863	1359	0	1615	1315	0	1649
Q Serve(g_s), s	0.5	11.2	2.2	1.1	8.4	8.4	4.8	0.0	1.9	0.4	0.0	1.0
Cycle Q Clear(g_c), s	0.5	11.2	2.2	1.1	8.4	8.4	5.9	0.0	1.9	2.3	0.0	1.0
Prop In Lane	1.00		1.00	1.00		0.02	1.00		0.88	1.00		0.74
Lane Grp Cap(c), veh/h	394	1504	671	370	806	845	399	0	316	365	0	323
V/C Ratio(X)	0.09	0.73	0.19	0.22	0.57	0.57	0.40	0.00	0.26	0.04	0.00	0.15
Avail Cap(c_a), veh/h	524	1831	816	446	915	960	724	0	702	680	0	717
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(l)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	7.0	10.5	7.9	7.6	8.8	8.8	17.0	0.0	14.9	15.9	0.0	14.5
Incr Delay (d2), s/veh	0.1	1.1	0.1	0.3	0.7	0.6	0.7	0.0	0.4	0.0	0.0	0.2
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%), veh/ln	0.1	3.5	0.6	0.3	2.5	2.6	1.4	0.0	0.6	0.1	0.0	0.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	7.1	11.6	8.0	7.9	9.5	9.4	17.6	0.0	15.3	15.9	0.0	14.7
LnGrp LOS	A	B	A	A	A	A	B	A	B	B	A	B
Approach Vol, veh/h	1254				1027			243			60	
Approach Delay, s/veh	11.1				9.3			16.8			15.0	
Approach LOS	B				A			B			B	
Timer - Assigned Phs	2	3	4		6	7	8					
Phs Duration (G+Y+R _c), s	13.0	7.7	23.0		13.0	6.3	24.3					
Change Period (Y+R _c), s	4.5	4.5	4.5		4.5	4.5	4.5					
Max Green Setting (Gmax), s	19.0	5.0	22.5		19.0	5.0	22.5					
Max Q Clear Time (g_c+l1), s	7.9	3.1	13.2		4.3	2.5	10.4					
Green Ext Time (p_c), s	0.7	0.0	5.3		0.2	0.0	4.8					
Intersection Summary												
HCM 6th Ctrl Delay			11.0									
HCM 6th LOS			B									

Intersection

Int Delay, s/veh 0.8

Movement WBL WBR NBT NBR SBL SBT

Lane Configurations						
Traffic Vol, veh/h	8	13	128	8	7	146
Future Vol, veh/h	8	13	128	8	7	146
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	9	14	139	9	8	159

Major/Minor Minor1 Major1 Major2

Conflicting Flow All	319	144	0	0	148	0
Stage 1	144	-	-	-	-	-
Stage 2	175	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	674	903	-	-	1434	-
Stage 1	883	-	-	-	-	-
Stage 2	855	-	-	-	-	-
Platoon blocked, %	-	-	-	-	-	-
Mov Cap-1 Maneuver	670	903	-	-	1434	-
Mov Cap-2 Maneuver	670	-	-	-	-	-
Stage 1	878	-	-	-	-	-
Stage 2	855	-	-	-	-	-

Approach WB NB SB

HCM Control Delay, s	9.7	0	0.3
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	797	1434	-
HCM Lane V/C Ratio	-	-	0.029	0.005	-
HCM Control Delay (s)	-	-	9.7	7.5	0
HCM Lane LOS	-	-	A	A	A
HCM 95th %tile Q(veh)	-	-	0.1	0	-

HCM 6th Signalized Intersection Summary
1: SE 142nd Avenue & SE Sunnyside Road

02/03/2022

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	60	1510	238	122	981	7	138	14	73	12	18	32
Future Volume (veh/h)	60	1510	238	122	981	7	138	14	73	12	18	32
Initial Q (Q _b), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1885	1885	1885	1885	1885	1885	1870	1870	1870
Adj Flow Rate, veh/h	64	1606	225	130	1044	6	147	15	69	13	19	31
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	0	0	0	1	1	1	1	1	1	2	2	2
Cap, veh/h	422	1997	890	284	2081	12	309	50	230	276	109	178
Arrive On Green	0.05	0.55	0.55	0.07	0.57	0.57	0.17	0.17	0.17	0.17	0.17	0.17
Sat Flow, veh/h	1810	3610	1609	1795	3651	21	1362	292	1345	1310	638	1041
Grp Volume(v), veh/h	64	1606	225	130	512	538	147	0	84	13	0	50
Grp Sat Flow(s), veh/h/ln	1810	1805	1609	1795	1791	1881	1362	0	1637	1310	0	1679
Q Serve(g_s), s	0.9	23.4	4.8	1.9	11.3	11.3	6.8	0.0	2.9	0.6	0.0	1.7
Cycle Q Clear(g_c), s	0.9	23.4	4.8	1.9	11.3	11.3	8.4	0.0	2.9	3.5	0.0	1.7
Prop In Lane	1.00		1.00	1.00		0.01	1.00		0.82	1.00		0.62
Lane Grp Cap(c), veh/h	422	1997	890	284	1021	1072	309	0	280	276	0	288
V/C Ratio(X)	0.15	0.80	0.25	0.46	0.50	0.50	0.48	0.00	0.30	0.05	0.00	0.17
Avail Cap(c_a), veh/h	474	2289	1020	327	1157	1216	469	0	473	430	0	485
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(l)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	6.2	11.8	7.6	12.6	8.5	8.5	26.8	0.0	23.7	25.2	0.0	23.2
Incr Delay (d2), s/veh	0.2	1.9	0.1	1.1	0.4	0.4	1.1	0.0	0.6	0.1	0.0	0.3
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%), veh/ln	0.3	7.4	1.3	0.9	3.3	3.5	2.1	0.0	1.1	0.2	0.0	0.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	6.3	13.7	7.7	13.7	8.9	8.8	27.9	0.0	24.3	25.3	0.0	23.4
LnGrp LOS	A	B	A	B	A	A	C	A	C	C	A	C
Approach Vol, veh/h		1895			1180			231			63	
Approach Delay, s/veh		12.7			9.4			26.6			23.8	
Approach LOS		B			A			C			C	
Timer - Assigned Phs	2	3	4		6	7	8					
Phs Duration (G+Y+R _c), s	15.7	9.0	40.7		15.7	7.9	41.8					
Change Period (Y+R _c), s	4.5	4.5	4.5		4.5	4.5	4.5					
Max Green Setting (Gmax), s	18.9	6.1	41.5		18.9	5.3	42.3					
Max Q Clear Time (g_c+l1), s	10.4	3.9	25.4		5.5	2.9	13.3					
Green Ext Time (p_c), s	0.5	0.1	10.8		0.2	0.0	7.3					
Intersection Summary												
HCM 6th Ctrl Delay			12.7									
HCM 6th LOS			B									

Intersection

Int Delay, s/veh 1

Movement WBL WBR NBT NBR SBL SBT

Lane Configurations						
Traffic Vol, veh/h	10	20	153	11	22	280
Future Vol, veh/h	10	20	153	11	22	280
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	94	94	94	94	94	94
Heavy Vehicles, %	7	7	2	2	5	5
Mvmt Flow	11	21	163	12	23	298

Major/Minor Minor1 Major1 Major2

Conflicting Flow All	513	169	0	0	175	0
Stage 1	169	-	-	-	-	-
Stage 2	344	-	-	-	-	-
Critical Hdwy	6.47	6.27	-	-	4.15	-
Critical Hdwy Stg 1	5.47	-	-	-	-	-
Critical Hdwy Stg 2	5.47	-	-	-	-	-
Follow-up Hdwy	3.563	3.363	-	-	2.245	-
Pot Cap-1 Maneuver	512	862	-	-	1383	-
Stage 1	849	-	-	-	-	-
Stage 2	707	-	-	-	-	-
Platoon blocked, %	-	-	-	-	-	-
Mov Cap-1 Maneuver	502	862	-	-	1383	-
Mov Cap-2 Maneuver	502	-	-	-	-	-
Stage 1	832	-	-	-	-	-
Stage 2	707	-	-	-	-	-

Approach WB NB SB

HCM Control Delay, s 10.4 0 0.6

HCM LOS B

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	696	1383	-
HCM Lane V/C Ratio	-	-	0.046	0.017	-
HCM Control Delay (s)	-	-	10.4	7.6	0
HCM Lane LOS	-	-	B	A	A
HCM 95th %tile Q(veh)	-	-	0.1	0.1	-

HCM 6th Signalized Intersection Summary

3: SE 142nd Avenue & Highway 224/212

02/03/2022

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	↑	↑↑	↑	↑	↑↑	↑	↑	↑	↑	↑	↑	↑
Traffic Volume (veh/h)	135	2175	47	24	1486	38	28	9	16	125	12	124
Future Volume (veh/h)	135	2175	47	24	1486	38	28	9	16	125	12	124
Initial Q (Q _b), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No		No		No		No		No	No		No
Adj Sat Flow, veh/h/ln	1885	1885	1885	1870	1870	1870	1767	1767	1767	1856	1856	1856
Adj Flow Rate, veh/h	139	2242	0	25	1532	9	29	9	0	129	12	105
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	1	1	1	2	2	2	9	9	9	3	3	3
Cap, veh/h	276	2481		128	2398	1068	194	53	266	183	16	116
Arrive On Green	0.04	0.69	0.00	0.02	0.67	0.67	0.18	0.18	0.00	0.18	0.18	0.18
Sat Flow, veh/h	1795	3582	1598	1781	3554	1583	809	300	1497	785	92	653
Grp Volume(v), veh/h	139	2242	0	25	1532	9	38	0	0	246	0	0
Grp Sat Flow(s), veh/h/ln	1795	1791	1598	1781	1777	1583	1109	0	1497	1530	0	0
Q Serve(g_s), s	3.0	65.0	0.0	0.5	31.1	0.2	0.0	0.0	0.0	16.4	0.0	0.0
Cycle Q Clear(g_c), s	3.0	65.0	0.0	0.5	31.1	0.2	3.4	0.0	0.0	19.8	0.0	0.0
Prop In Lane	1.00		1.00	1.00		1.00	0.76		1.00	0.52		0.43
Lane Grp Cap(c), veh/h	276	2481		128	2398	1068	247	0	266	315	0	0
V/C Ratio(X)	0.50	0.90		0.19	0.64	0.01	0.15	0.00	0.00	0.78	0.00	0.00
Avail Cap(c_a), veh/h	381	2665		158	2431	1083	299	0	326	375	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(l)	1.00	1.00	0.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	12.0	16.0	0.0	24.1	11.7	6.7	44.0	0.0	0.0	50.6	0.0	0.0
Incr Delay (d2), s/veh	1.4	4.6	0.0	0.7	0.6	0.0	0.3	0.0	0.0	8.6	0.0	0.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%), veh/ln	1.3	23.3	0.0	0.4	10.7	0.1	1.0	0.0	0.0	8.2	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	13.5	20.6	0.0	24.9	12.3	6.7	44.3	0.0	0.0	59.2	0.0	0.0
LnGrp LOS	B	C		C	B	A	D	A	A	E	A	A
Approach Vol, veh/h	2381	A		1566			38			246		
Approach Delay, s/veh	20.2			12.5			44.3			59.2		
Approach LOS		C			B			D		E		
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	7.4	92.0		26.9	9.7	89.7		26.9				
Change Period (Y+Rc), s	4.5	4.5		4.5	4.5	4.5		4.5				
Max Green Setting (Gmax), s	5.0	94.0		27.5	12.6	86.4		27.5				
Max Q Clear Time (g_c+l1), s	2.5	67.0		21.8	5.0	33.1		5.4				
Green Ext Time (p_c), s	0.0	20.5		0.6	0.2	16.4		0.1				

Intersection Summary

HCM 6th Ctrl Delay 19.8
HCM 6th LOS B

Notes

Unsignalized Delay for [EBR] is excluded from calculations of the approach delay and intersection delay.

HCM 6th Signalized Intersection Summary

3: SE 142nd Avenue & Highway 224/212

02/03/2022

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	52	1161	20	4	2341	57	56	10	15	44	4	174
Future Volume (veh/h)	52	1161	20	4	2341	57	56	10	15	44	4	174
Initial Q (Q _b), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1826	1826	1826	1870	1870	1870	1796	1796	1796	1841	1841	1841
Adj Flow Rate, veh/h	54	1209	0	4	2439	43	58	10	2	46	4	122
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	5	5	5	2	2	2	7	7	7	4	4	4
Cap, veh/h	127	2533		340	2489	1110	142	20	238	63	18	104
Arrive On Green	0.03	0.73	0.00	0.01	0.70	0.70	0.15	0.15	0.15	0.15	0.15	0.15
Sat Flow, veh/h	1739	3469	1547	1781	3554	1585	569	132	1522	166	116	689
Grp Volume(v), veh/h	54	1209	0	4	2439	43	68	0	2	172	0	0
Grp Sat Flow(s), veh/h/ln	1739	1735	1547	1781	1777	1585	701	0	1522	972	0	0
Q Serve(g_s), s	1.0	17.2	0.0	0.1	78.0	1.0	0.0	0.0	0.1	7.4	0.0	0.0
Cycle Q Clear(g_c), s	1.0	17.2	0.0	0.1	78.0	1.0	10.6	0.0	0.1	18.0	0.0	0.0
Prop In Lane	1.00		1.00	1.00		1.00	0.85		1.00	0.27		0.71
Lane Grp Cap(c), veh/h	127	2533		340	2489	1110	162	0	238	185	0	0
V/C Ratio(X)	0.42	0.48		0.01	0.98	0.04	0.42	0.00	0.01	0.93	0.00	0.00
Avail Cap(c_a), veh/h	139	2533		406	2494	1112	162	0	238	185	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(l)	1.00	1.00	0.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	33.7	6.7	0.0	6.0	17.0	5.5	47.1	0.0	42.4	52.5	0.0	0.0
Incr Delay (d2), s/veh	2.2	0.1	0.0	0.0	13.6	0.0	1.7	0.0	0.0	45.9	0.0	0.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%), veh/ln	1.2	5.0	0.0	0.0	29.4	0.3	1.9	0.0	0.1	7.5	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	35.9	6.8	0.0	6.0	30.7	5.5	48.8	0.0	42.4	98.4	0.0	0.0
LnGrp LOS	D	A		A	C	A	D	A	D	F	A	A
Approach Vol, veh/h	1263		A		2486			70			172	
Approach Delay, s/veh	8.0				30.2			48.7			98.4	
Approach LOS		A			C			D			F	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+R _c), s	5.1	91.4		22.5	8.7	87.8		22.5				
Change Period (Y+R _c), s	4.5	4.5		4.5	4.5	4.5		4.5				
Max Green Setting (Gmax), s	5.0	83.5		18.0	5.0	83.5		18.0				
Max Q Clear Time (g_c+l1), s	2.1	19.2		20.0	3.0	80.0		12.6				
Green Ext Time (p_c), s	0.0	11.1		0.0	0.0	3.3		0.1				

Intersection Summary

HCM 6th Ctrl Delay	26.4
HCM 6th LOS	C

Notes

Unsignalized Delay for [EBR] is excluded from calculations of the approach delay and intersection delay.

HCM 6th Signalized Intersection Summary
1: SE 142nd Avenue & SE Sunnyside Road

02/02/2022

Movement	EBL	EBT	EBC	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	36	1065	123	80	912	11	156	10	71	13	12	34
Future Volume (veh/h)	36	1065	123	80	912	11	156	10	71	13	12	34
Initial Q (Q _b), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	39	1158	134	87	991	12	170	11	77	14	13	37
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	376	1522	679	353	1650	20	399	41	286	363	87	247
Arrive On Green	0.04	0.43	0.43	0.07	0.46	0.46	0.20	0.20	0.20	0.20	0.20	0.20
Sat Flow, veh/h	1781	3554	1585	1781	3596	44	1355	202	1414	1309	429	1221
Grp Volume(v), veh/h	39	1158	134	87	490	513	170	0	88	14	0	50
Grp Sat Flow(s), veh/h/ln	1781	1777	1585	1781	1777	1863	1355	0	1616	1309	0	1651
Q Serve(g_s), s	0.5	12.6	2.4	1.2	9.4	9.4	5.4	0.0	2.1	0.4	0.0	1.1
Cycle Q Clear(g_c), s	0.5	12.6	2.4	1.2	9.4	9.4	6.5	0.0	2.1	2.5	0.0	1.1
Prop In Lane	1.00			1.00		0.02	1.00		0.88	1.00		0.74
Lane Grp Cap(c), veh/h	376	1522	679	353	815	854	399	0	327	363	0	334
V/C Ratio(X)	0.10	0.76	0.20	0.25	0.60	0.60	0.43	0.00	0.27	0.04	0.00	0.15
Avail Cap(c_a), veh/h	495	1753	782	418	876	919	688	0	673	643	0	688
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(l)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	7.3	11.1	8.1	8.1	9.2	9.2	17.6	0.0	15.3	16.4	0.0	15.0
Incr Delay (d2), s/veh	0.1	1.7	0.1	0.4	1.0	1.0	0.7	0.0	0.4	0.0	0.0	0.2
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%), veh/ln	0.2	4.1	0.7	0.3	2.9	3.0	1.5	0.0	0.7	0.1	0.0	0.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	7.4	12.8	8.3	8.5	10.2	10.2	18.4	0.0	15.8	16.4	0.0	15.2
LnGrp LOS	A	B	A	A	B	B	B	A	B	B	A	B
Approach Vol, veh/h	1331				1090			258			64	
Approach Delay, s/veh	12.2				10.1			17.5			15.4	
Approach LOS	B				B			B			B	
Timer - Assigned Phs	2	3	4		6	7	8					
Phs Duration (G+Y+R _c), s	13.7	7.8	24.0		13.7	6.4	25.4					
Change Period (Y+R _c), s	4.5	4.5	4.5		4.5	4.5	4.5					
Max Green Setting (Gmax), s	19.0	5.0	22.5		19.0	5.0	22.5					
Max Q Clear Time (g_c+l1), s	8.5	3.2	14.6		4.5	2.5	11.4					
Green Ext Time (p_c), s	0.7	0.0	4.9		0.2	0.0	4.9					
Intersection Summary												
HCM 6th Ctrl Delay			11.9									
HCM 6th LOS			B									

Intersection

Int Delay, s/veh 0.8

Movement	WBL	WBR	NBT	NBR	SBL	SBT
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Lane Configurations						
Traffic Vol, veh/h	8	14	136	8	7	155
Future Vol, veh/h	8	14	136	8	7	155
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	9	15	148	9	8	168

Major/Minor	Minor1	Major1	Major2
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Conflicting Flow All	337	153	0	0	157	0
Stage 1	153	-	-	-	-	-
Stage 2	184	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	658	893	-	-	1423	-
Stage 1	875	-	-	-	-	-
Stage 2	848	-	-	-	-	-
Platoon blocked, %	-	-	-	-	-	-
Mov Cap-1 Maneuver	654	893	-	-	1423	-
Mov Cap-2 Maneuver	654	-	-	-	-	-
Stage 1	870	-	-	-	-	-
Stage 2	848	-	-	-	-	-

Approach	WB	NB	SB
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HCM Control Delay, s 9.7 0 0.3

HCM LOS A

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	788	1423	-
HCM Lane V/C Ratio	-	-	0.03	0.005	-
HCM Control Delay (s)	-	-	9.7	7.5	0
HCM Lane LOS	-	-	A	A	A
HCM 95th %tile Q(veh)	-	-	0.1	0	-

HCM 6th Signalized Intersection Summary
1: SE 142nd Avenue & SE Sunnyside Road

02/03/2022

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	64	1602	253	129	1041	7	146	15	77	13	19	34
Future Volume (veh/h)	64	1602	253	129	1041	7	146	15	77	13	19	34
Initial Q (Q _b), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1885	1885	1885	1885	1885	1885	1870	1870	1870
Adj Flow Rate, veh/h	68	1704	241	137	1107	6	155	16	73	14	20	33
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	0	0	0	1	1	1	1	1	1	2	2	2
Cap, veh/h	400	2018	899	264	2095	11	309	52	238	274	112	185
Arrive On Green	0.05	0.56	0.56	0.07	0.57	0.57	0.18	0.18	0.18	0.18	0.18	0.18
Sat Flow, veh/h	1810	3610	1609	1795	3653	20	1358	294	1343	1304	633	1045
Grp Volume(v), veh/h	68	1704	241	137	543	570	155	0	89	14	0	53
Grp Sat Flow(s), veh/h/ln	1810	1805	1609	1795	1791	1882	1358	0	1638	1304	0	1678
Q Serve(g_s), s	1.0	27.1	5.3	2.1	12.7	12.7	7.5	0.0	3.2	0.6	0.0	1.8
Cycle Q Clear(g_c), s	1.0	27.1	5.3	2.1	12.7	12.7	9.4	0.0	3.2	3.9	0.0	1.8
Prop In Lane	1.00		1.00	1.00		0.01	1.00		0.82	1.00		0.62
Lane Grp Cap(c), veh/h	400	2018	899	264	1027	1079	309	0	290	274	0	297
V/C Ratio(X)	0.17	0.84	0.27	0.52	0.53	0.53	0.50	0.00	0.31	0.05	0.00	0.18
Avail Cap(c_a), veh/h	449	2182	972	286	1083	1137	454	0	465	414	0	477
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(l)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	6.5	12.6	7.9	14.4	9.0	9.0	28.0	0.0	24.6	26.3	0.0	24.0
Incr Delay (d2), s/veh	0.2	3.0	0.2	1.6	0.4	0.4	1.3	0.0	0.6	0.1	0.0	0.3
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%), veh/ln	0.3	9.0	1.5	1.1	3.8	4.0	2.4	0.0	1.2	0.2	0.0	0.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	6.7	15.7	8.0	15.9	9.4	9.4	29.3	0.0	25.2	26.4	0.0	24.3
LnGrp LOS	A	B	A	B	A	A	C	A	C	C	A	C
Approach Vol, veh/h		2013			1250			244			67	
Approach Delay, s/veh		14.5			10.1			27.8			24.7	
Approach LOS		B			B			C			C	
Timer - Assigned Phs	2	3	4		6	7	8					
Phs Duration (G+Y+R _c), s	16.6	9.1	42.9		16.6	8.1	43.9					
Change Period (Y+R _c), s	4.5	4.5	4.5		4.5	4.5	4.5					
Max Green Setting (Gmax), s	19.5	5.5	41.5		19.5	5.5	41.5					
Max Q Clear Time (g_c+l1), s	11.4	4.1	29.1		5.9	3.0	14.7					
Green Ext Time (p_c), s	0.5	0.0	9.3		0.2	0.0	7.7					
Intersection Summary												
HCM 6th Ctrl Delay			14.0									
HCM 6th LOS			B									

Intersection

Int Delay, s/veh 1

Movement	WBL	WBR	NBT	NBR	SBL	SBT
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Lane Configurations						
Traffic Vol, veh/h	11	21	162	12	23	297
Future Vol, veh/h	11	21	162	12	23	297
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	94	94	94	94	94	94
Heavy Vehicles, %	7	7	2	2	5	5
Mvmt Flow	12	22	172	13	24	316

Major/Minor	Minor1	Major1	Major2
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Conflicting Flow All	543	179	0	0	185	0
Stage 1	179	-	-	-	-	-
Stage 2	364	-	-	-	-	-
Critical Hdwy	6.47	6.27	-	-	4.15	-
Critical Hdwy Stg 1	5.47	-	-	-	-	-
Critical Hdwy Stg 2	5.47	-	-	-	-	-
Follow-up Hdwy	3.563	3.363	-	-	2.245	-
Pot Cap-1 Maneuver	492	851	-	-	1372	-
Stage 1	840	-	-	-	-	-
Stage 2	692	-	-	-	-	-
Platoon blocked, %	-	-	-	-	-	-
Mov Cap-1 Maneuver	482	851	-	-	1372	-
Mov Cap-2 Maneuver	482	-	-	-	-	-
Stage 1	822	-	-	-	-	-
Stage 2	692	-	-	-	-	-

Approach	WB	NB	SB
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HCM Control Delay, s 10.6 0 0.6

HCM LOS B

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	674	1372	-
HCM Lane V/C Ratio	-	-	0.051	0.018	-
HCM Control Delay (s)	-	-	10.6	7.7	0
HCM Lane LOS	-	-	B	A	A
HCM 95th %tile Q(veh)	-	-	0.2	0.1	-

HCM 6th Signalized Intersection Summary

3: SE 142nd Avenue & Highway 224/212

02/03/2022

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	143	2311	50	25	1579	38	30	10	17	133	13	132
Future Volume (veh/h)	143	2311	50	25	1579	38	30	10	17	133	13	132
Initial Q (Q _b), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1885	1885	1885	1870	1870	1870	1767	1767	1767	1856	1856	1856
Adj Flow Rate, veh/h	147	2382	0	26	1628	9	31	10	0	137	13	112
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	1	1	1	2	2	2	9	9	9	3	3	3
Cap, veh/h	251	2485		107	2400	1069	192	55	275	186	16	121
Arrive On Green	0.04	0.69	0.00	0.02	0.68	0.68	0.18	0.18	0.00	0.18	0.18	0.18
Sat Flow, veh/h	1795	3582	1598	1781	3554	1583	793	302	1497	794	84	656
Grp Volume(v), veh/h	147	2382	0	26	1628	9	41	0	0	262	0	0
Grp Sat Flow(s), veh/h/ln	1795	1791	1598	1781	1777	1583	1095	0	1497	1534	0	0
Q Serve(g_s), s	3.4	82.5	0.0	0.6	37.3	0.3	0.0	0.0	0.0	18.7	0.0	0.0
Cycle Q Clear(g_c), s	3.4	82.5	0.0	0.6	37.3	0.3	4.0	0.0	0.0	22.7	0.0	0.0
Prop In Lane	1.00		1.00	1.00		1.00	0.76		1.00	0.52		0.43
Lane Grp Cap(c), veh/h	251	2485		107	2400	1069	248	0	275	322	0	0
V/C Ratio(X)	0.58	0.96		0.24	0.68	0.01	0.17	0.00	0.00	0.81	0.00	0.00
Avail Cap(c_a), veh/h	366	2513		131	2400	1069	261	0	290	337	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(l)	1.00	1.00	0.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	15.7	19.0	0.0	34.4	13.2	7.2	46.7	0.0	0.0	54.1	0.0	0.0
Incr Delay (d2), s/veh	2.2	10.0	0.0	1.2	0.8	0.0	0.3	0.0	0.0	13.6	0.0	0.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%), veh/ln	2.1	31.9	0.0	0.6	13.3	0.1	1.2	0.0	0.0	9.9	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	17.8	29.0	0.0	35.6	14.0	7.2	47.0	0.0	0.0	67.7	0.0	0.0
LnGrp LOS	B	C		D	B	A	D	A	A	E	A	A
Approach Vol, veh/h	2529		A		1663			41			262	
Approach Delay, s/veh	28.4				14.3			47.0			67.7	
Approach LOS		C			B			D			E	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	7.6	98.6		29.4	10.1	96.1		29.4				
Change Period (Y+Rc), s	4.5	4.5		4.5	4.5	4.5		4.5				
Max Green Setting (Gmax), s	5.0	95.2		26.3	14.3	85.9		26.3				
Max Q Clear Time (g_c+l1), s	2.6	84.5		24.7	5.4	39.3		6.0				
Green Ext Time (p_c), s	0.0	9.6		0.2	0.2	17.7		0.1				

Intersection Summary

HCM 6th Ctrl Delay 25.6
HCM 6th LOS C

Notes

Unsignalized Delay for [EBR] is excluded from calculations of the approach delay and intersection delay.

HCM 6th Signalized Intersection Summary

3: SE 142nd Avenue & Highway 224/212

02/18/2022

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	53	1161	20	4	2341	59	56	10	15	48	4	178
Future Volume (veh/h)	53	1161	20	4	2341	59	56	10	15	48	4	178
Initial Q (Q _b), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1826	1826	1826	1870	1870	1870	1796	1796	1796	1841	1841	1841
Adj Flow Rate, veh/h	55	1209	0	4	2439	49	58	10	0	50	4	121
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	5	5	5	2	2	2	7	7	7	4	4	4
Cap, veh/h	141	2612		359	2566	1144	154	22	196	88	15	140
Arrive On Green	0.04	0.75	0.00	0.01	0.72	0.72	0.12	0.12	0.00	0.12	0.12	0.12
Sat Flow, veh/h	1739	3469	1547	1781	3554	1585	771	177	1522	387	119	1135
Grp Volume(v), veh/h	55	1209	0	4	2439	49	68	0	0	175	0	0
Grp Sat Flow(s), veh/h/ln	1739	1735	1547	1781	1777	1585	948	0	1522	1641	0	0
Q Serve(g_s), s	0.9	15.1	0.0	0.1	69.4	1.0	0.0	0.0	0.0	3.5	0.0	0.0
Cycle Q Clear(g_c), s	0.9	15.1	0.0	0.1	69.4	1.0	8.2	0.0	0.0	11.7	0.0	0.0
Prop In Lane	1.00		1.00	1.00		1.00	0.85		1.00	0.29		0.69
Lane Grp Cap(c), veh/h	141	2612		359	2566	1144	176	0	196	243	0	0
V/C Ratio(X)	0.39	0.46		0.01	0.95	0.04	0.39	0.00	0.00	0.72	0.00	0.00
Avail Cap(c_a), veh/h	154	2612		428	2602	1161	219	0	248	295	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(l)	1.00	1.00	0.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	31.9	5.3	0.0	4.8	14.1	4.5	47.2	0.0	0.0	48.8	0.0	0.0
Incr Delay (d2), s/veh	1.8	0.1	0.0	0.0	8.7	0.0	1.4	0.0	0.0	6.5	0.0	0.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%), veh/ln	1.1	4.0	0.0	0.0	23.6	0.3	1.9	0.0	0.0	5.2	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	33.7	5.5	0.0	4.9	22.8	4.6	48.6	0.0	0.0	55.3	0.0	0.0
LnGrp LOS	C	A		A	C	A	D	A	A	E	A	A
Approach Vol, veh/h	1264		A		2492			68			175	
Approach Delay, s/veh	6.7				22.4			48.6			55.3	
Approach LOS		A			C			D			E	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+R _c), s	5.1	90.4		18.6	8.6	86.8		18.6				
Change Period (Y+R _c), s	4.5	4.5		4.5	4.5	4.5		4.5				
Max Green Setting (Gmax), s	5.0	83.5		18.0	5.0	83.5		18.0				
Max Q Clear Time (g_c+l1), s	2.1	17.1		13.7	2.9	71.4		10.2				
Green Ext Time (p_c), s	0.0	11.1		0.3	0.0	10.9		0.1				

Intersection Summary

HCM 6th Ctrl Delay 19.3

HCM 6th LOS B

Notes

Unsignalized Delay for [EBR] is excluded from calculations of the approach delay and intersection delay.

HCM 6th Signalized Intersection Summary
1: SE 142nd Avenue & SE Sunnyside Road

02/18/2022

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	36	1065	126	83	912	11	159	10	75	13	12	34
Future Volume (veh/h)	36	1065	126	83	912	11	159	10	75	13	12	34
Initial Q (Q _b), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1885	1885	1885	1885	1885	1885	1885	1885	1885	1841	1841	1841
Adj Flow Rate, veh/h	38	1133	134	88	970	12	169	11	80	14	13	36
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	1	1	1	1	1	1	1	1	1	4	4	4
Cap, veh/h	380	1516	675	359	1648	20	407	41	296	363	89	247
Arrive On Green	0.04	0.42	0.42	0.07	0.45	0.45	0.21	0.21	0.21	0.21	0.21	0.21
Sat Flow, veh/h	1795	3582	1596	1795	3623	45	1362	196	1425	1280	430	1190
Grp Volume(v), veh/h	38	1133	134	88	479	503	169	0	91	14	0	49
Grp Sat Flow(s), veh/h/ln	1795	1791	1596	1795	1791	1877	1362	0	1621	1280	0	1620
Q Serve(g_s), s	0.5	12.2	2.4	1.2	9.1	9.1	5.3	0.0	2.2	0.4	0.0	1.1
Cycle Q Clear(g_c), s	0.5	12.2	2.4	1.2	9.1	9.1	6.4	0.0	2.2	2.6	0.0	1.1
Prop In Lane	1.00		1.00	1.00		0.02	1.00		0.88	1.00		0.73
Lane Grp Cap(c), veh/h	380	1516	675	359	815	854	407	0	337	363	0	336
V/C Ratio(X)	0.10	0.75	0.20	0.25	0.59	0.59	0.42	0.00	0.27	0.04	0.00	0.15
Avail Cap(c_a), veh/h	502	1781	793	423	890	933	685	0	668	625	0	667
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(l)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	7.4	11.1	8.3	8.1	9.3	9.3	17.4	0.0	15.2	16.3	0.0	14.8
Incr Delay (d2), s/veh	0.1	1.5	0.1	0.4	0.9	0.8	0.7	0.0	0.4	0.0	0.0	0.2
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%), veh/ln	0.2	4.0	0.7	0.4	2.8	3.0	1.5	0.0	0.7	0.1	0.0	0.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	7.5	12.6	8.4	8.5	10.1	10.1	18.1	0.0	15.6	16.3	0.0	15.0
LnGrp LOS	A	B	A	A	B	B	B	A	B	B	A	B
Approach Vol, veh/h	1305				1070				260			63
Approach Delay, s/veh	12.0				10.0				17.2			15.3
Approach LOS	B				A				B			B
Timer - Assigned Phs	2	3	4		6	7	8					
Phs Duration (G+Y+R _c), s	14.0	7.9	23.8		14.0	6.4	25.3					
Change Period (Y+R _c), s	4.5	4.5	4.5		4.5	4.5	4.5					
Max Green Setting (Gmax), s	18.8	5.0	22.7		18.8	5.0	22.7					
Max Q Clear Time (g_c+l1), s	8.4	3.2	14.2		4.6	2.5	11.1					
Green Ext Time (p_c), s	0.7	0.0	5.1		0.2	0.0	4.9					
Intersection Summary												
HCM 6th Ctrl Delay				11.8								
HCM 6th LOS				B								

Intersection

Int Delay, s/veh 1.2

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	7	0	4	8	0	14	4	136	8	7	155	6
Future Vol, veh/h	7	0	4	8	0	14	4	136	8	7	155	6
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None									
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	86	86	86	86	86	86	86	86	86	86	86	86
Heavy Vehicles, %	0	0	0	5	5	5	2	2	2	3	3	3
Mvmt Flow	8	0	5	9	0	16	5	158	9	8	180	7

Major/Minor	Minor2	Minor1			Major1			Major2				
Conflicting Flow All	381	377	184	375	376	163	187	0	0	167	0	0
Stage 1	200	200	-	173	173	-	-	-	-	-	-	-
Stage 2	181	177	-	202	203	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.15	6.55	6.25	4.12	-	-	4.13	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.15	5.55	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.15	5.55	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.545	4.045	3.345	2.218	-	-	2.227	-	-
Pot Cap-1 Maneuver	581	558	864	577	551	874	1387	-	-	1405	-	-
Stage 1	806	739	-	822	750	-	-	-	-	-	-	-
Stage 2	825	756	-	793	728	-	-	-	-	-	-	-
Platoon blocked, %								-	-	-	-	-
Mov Cap-1 Maneuver	566	552	864	569	545	874	1387	-	-	1405	-	-
Mov Cap-2 Maneuver	566	552	-	569	545	-	-	-	-	-	-	-
Stage 1	803	735	-	819	747	-	-	-	-	-	-	-
Stage 2	806	753	-	784	724	-	-	-	-	-	-	-

Approach	EB	WB			NB			SB		
HCM Control Delay, s	10.7	10.1			0.2			0.3		
HCM LOS	B	B								
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Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR		
Capacity (veh/h)	1387	-	-	647	731	1405	-	-		
HCM Lane V/C Ratio	0.003	-	-	0.02	0.035	0.006	-	-		
HCM Control Delay (s)	7.6	0	-	10.7	10.1	7.6	0	-		
HCM Lane LOS	A	A	-	B	B	A	A	-		
HCM 95th %tile Q(veh)	0	-	-	0.1	0.1	0	-	-		

HCM 6th Signalized Intersection Summary
1: SE 142nd Avenue & SE Sunnyside Road

02/18/2022

Movement	EBL	EBT	EBC	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	64	1602	260	136	1041	7	150	15	81	13	19	34
Future Volume (veh/h)	64	1602	260	136	1041	7	150	15	81	13	19	34
Initial Q (Q _b), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1885	1885	1885	1885	1885	1885	1870	1870	1870
Adj Flow Rate, veh/h	68	1704	249	145	1107	6	160	16	77	14	20	33
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	0	0	0	1	1	1	1	1	1	2	2	2
Cap, veh/h	398	2011	896	262	2090	11	312	51	244	274	114	188
Arrive On Green	0.05	0.56	0.56	0.07	0.57	0.57	0.18	0.18	0.18	0.18	0.18	0.18
Sat Flow, veh/h	1810	3610	1609	1795	3653	20	1358	281	1355	1300	633	1045
Grp Volume(v), veh/h	68	1704	249	145	543	570	160	0	93	14	0	53
Grp Sat Flow(s), veh/h/ln	1810	1805	1609	1795	1791	1882	1358	0	1636	1300	0	1678
Q Serve(g_s), s	1.1	27.4	5.6	2.3	12.9	12.9	7.8	0.0	3.4	0.7	0.0	1.8
Cycle Q Clear(g_c), s	1.1	27.4	5.6	2.3	12.9	12.9	9.7	0.0	3.4	4.1	0.0	1.8
Prop In Lane	1.00		1.00	1.00		0.01	1.00		0.83	1.00		0.62
Lane Grp Cap(c), veh/h	398	2011	896	262	1024	1076	312	0	295	274	0	302
V/C Ratio(X)	0.17	0.85	0.28	0.55	0.53	0.53	0.51	0.00	0.32	0.05	0.00	0.18
Avail Cap(c_a), veh/h	446	2166	965	283	1075	1129	451	0	461	406	0	473
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(l)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	6.6	12.9	8.0	14.6	9.1	9.1	28.1	0.0	24.7	26.4	0.0	24.0
Incr Delay (d2), s/veh	0.2	3.2	0.2	2.0	0.4	0.4	1.3	0.0	0.6	0.1	0.0	0.3
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%), veh/ln	0.3	9.3	1.6	1.2	3.9	4.1	2.5	0.0	1.3	0.2	0.0	0.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	6.8	16.0	8.2	16.6	9.5	9.5	29.4	0.0	25.3	26.5	0.0	24.3
LnGrp LOS	A	B	A	B	A	A	C	A	C	C	A	C
Approach Vol, veh/h		2021			1258			253			67	
Approach Delay, s/veh		14.8			10.3			27.9			24.7	
Approach LOS		B			B			C			C	
Timer - Assigned Phs	2	3	4		6	7	8					
Phs Duration (G+Y+R _c), s	17.0	9.2	43.0		17.0	8.1	44.1					
Change Period (Y+R _c), s	4.5	4.5	4.5		4.5	4.5	4.5					
Max Green Setting (Gmax), s	19.5	5.5	41.5		19.5	5.5	41.5					
Max Q Clear Time (g_c+l1), s	11.7	4.3	29.4		6.1	3.1	14.9					
Green Ext Time (p_c), s	0.6	0.0	9.1		0.2	0.0	7.7					
Intersection Summary												
HCM 6th Ctrl Delay			14.3									
HCM 6th LOS			B									

Intersection

Int Delay, s/veh 1.4

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	8	0	5	11	0	21	9	162	12	23	297	14
Future Vol, veh/h	8	0	5	11	0	21	9	162	12	23	297	14
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None									
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	9	0	5	12	0	23	10	176	13	25	323	15

Major/Minor	Minor2	Minor1			Major1			Major2				
Conflicting Flow All	595	590	331	586	591	183	338	0	0	189	0	0
Stage 1	381	381	-	203	203	-	-	-	-	-	-	-
Stage 2	214	209	-	383	388	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-	-
Pot Cap-1 Maneuver	416	420	711	422	420	859	1221	-	-	1385	-	-
Stage 1	641	613	-	799	733	-	-	-	-	-	-	-
Stage 2	788	729	-	640	609	-	-	-	-	-	-	-
Platoon blocked, %								-	-	-	-	-
Mov Cap-1 Maneuver	396	407	711	409	407	859	1221	-	-	1385	-	-
Mov Cap-2 Maneuver	396	407	-	409	407	-	-	-	-	-	-	-
Stage 1	635	600	-	792	726	-	-	-	-	-	-	-
Stage 2	760	722	-	621	596	-	-	-	-	-	-	-

Approach	EB	WB			NB			SB		
HCM Control Delay, s	12.8	11.1			0.4			0.5		
HCM LOS	B	B								
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Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR		
Capacity (veh/h)	1221	-	-	477	623	1385	-	-		
HCM Lane V/C Ratio	0.008	-	-	0.03	0.056	0.018	-	-		
HCM Control Delay (s)	8	0	-	12.8	11.1	7.6	0	-		
HCM Lane LOS	A	A	-	B	B	A	A	-		
HCM 95th %tile Q(veh)	0	-	-	0.1	0.2	0.1	-	-		

HCM 6th Signalized Intersection Summary

3: SE 142nd Avenue & Highway 224/212

02/18/2022

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	147	2311	50	25	1579	43	30	10	17	135	13	135
Future Volume (veh/h)	147	2311	50	25	1579	43	30	10	17	135	13	135
Initial Q (Q _b), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1885	1885	1885	1870	1870	1870	1767	1767	1767	1856	1856	1856
Adj Flow Rate, veh/h	152	2382	0	26	1628	14	31	10	0	139	13	115
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	1	1	1	2	2	2	9	9	9	3	3	3
Cap, veh/h	251	2480		106	2391	1065	193	56	279	187	15	123
Arrive On Green	0.04	0.69	0.00	0.02	0.67	0.67	0.19	0.19	0.00	0.19	0.19	0.19
Sat Flow, veh/h	1795	3582	1598	1781	3554	1583	789	299	1497	791	82	661
Grp Volume(v), veh/h	152	2382	0	26	1628	14	41	0	0	267	0	0
Grp Sat Flow(s), veh/h/ln	1795	1791	1598	1781	1777	1583	1088	0	1497	1534	0	0
Q Serve(g_s), s	3.6	83.6	0.0	0.6	37.8	0.4	0.0	0.0	0.0	19.3	0.0	0.0
Cycle Q Clear(g_c), s	3.6	83.6	0.0	0.6	37.8	0.4	4.1	0.0	0.0	23.4	0.0	0.0
Prop In Lane	1.00		1.00	1.00		1.00	0.76		1.00	0.52		0.43
Lane Grp Cap(c), veh/h	251	2480		106	2391	1065	249	0	279	325	0	0
V/C Ratio(X)	0.61	0.96		0.25	0.68	0.01	0.16	0.00	0.00	0.82	0.00	0.00
Avail Cap(c_a), veh/h	373	2506		130	2391	1065	252	0	282	329	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(l)	1.00	1.00	0.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	16.4	19.3	0.0	34.8	13.5	7.4	46.8	0.0	0.0	54.5	0.0	0.0
Incr Delay (d2), s/veh	2.4	10.3	0.0	1.2	0.8	0.0	0.3	0.0	0.0	15.0	0.0	0.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%), veh/ln	2.3	32.5	0.0	0.6	13.6	0.1	1.2	0.0	0.0	10.3	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	18.8	29.6	0.0	36.0	14.3	7.4	47.1	0.0	0.0	69.5	0.0	0.0
LnGrp LOS	B	C		D	B	A	D	A	A	E	A	A
Approach Vol, veh/h	2534		A		1668			41		267		
Approach Delay, s/veh	29.0				14.6			47.1		69.5		
Approach LOS		C			B			D		E		
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+R _c), s	7.6	99.2		29.9	10.3	96.5		29.9				
Change Period (Y+R _c), s	4.5	4.5		4.5	4.5	4.5		4.5				
Max Green Setting (Gmax), s	5.0	95.7		25.8	15.1	85.6		25.8				
Max Q Clear Time (g _{c+l1}), s	2.6	85.6		25.4	5.6	39.8		6.1				
Green Ext Time (p _c), s	0.0	9.1		0.1	0.2	17.6		0.1				
Intersection Summary												
HCM 6th Ctrl Delay			26.2									
HCM 6th LOS			C									
Notes												
Unsignalized Delay for [EBR] is excluded from calculations of the approach delay and intersection delay.												