



Traffic Data

Westside Mobility Strategy

Revised

August 18, 2016

Contributors
City of Vancouver
HDR Engineering

Contents

1	Background Traffic Data and Projections.....	1
2	Existing Traffic Volumes.....	3
	2.1 Summary	3
	2.2 Volumes by Corridor.....	7
3	Existing Travel Time Estimates	15
	3.1 Summary	15
4	Origin Destination Data	17
	4.1 I-5 n/o 78 th St. to Columbia River Bridge via Main St. Diversion.....	17
	4.2 I-5 n/o 78 th St. to Columbia River Bridge via I-5.....	19
	4.3 Time of Day: I-5 to Main to I-5.....	21
	4.4 Time of Day: Main to I-5.....	22
5	Existing Crash Data.....	23
	5.1 Summary	23
	5.2 Time of Day Crashes.....	25
	5.3 Bicyclist and Pedestrian Crashes by Time of Day	33
6	Future Growth Projections.....	35

1 Background Traffic Data and Projections

To determine the existing traffic conditions in westside Vancouver, traffic data was collected on six of the major roadways and two nearby freeways. The data was compiled and analyzed to best determine existing traffic demand, identify patterns of truck and commuter traffic, capture vehicular travel time, and identify critical intersections where all modes of transportation converge. Three methods were used to collect existing traffic data: Bluetooth readers, video cameras, and radar detection. Data recorders were placed in westside Vancouver, Clark County, and on the I-5 corridor to best capture the existing traffic patterns of vehicles entering and exiting the project study area. The below table shows the data collection types, the locations they were placed, and the time period of data collection. This appendix contains existing traffic volumes, travel time estimates, origin/destination results, crash data, and future growth projection assumptions.

Data Collection Locations for the Westside Mobility Strategy

Type	Date	Location
Blue Tooth	March 11-25, 2015	I-5 north of 78th St Exit
		78th St between Fruit Valley Rd and I-5
		Main St between I-5 Main St exit and 39th St
		39th St between Main Street and Fruit Valley Rd
		Fourth Plain Blvd between Mill Plain Blvd and I-5
Blue Tooth	March 11-25, 2015	Mill Plain Blvd between railroad tracks and I-5
		I-5 between Mill Plain Blvd and Columbia River Bridge
		WA-14 east of I-5 split
Miovision Cameras	March 18-19, 2015	Fruit Valley Road between 78th Street and 39th Street
		39th Street east of Fruit Valley Road
		Fourth Plain Boulevard east of Fruit Valley Road
		Mill Plain Boulevard west of railroad tracks
Wavetronix Radar	March 18, 2015	78th Street between NW 9th and NW 10th Avenues

2 Existing Traffic Volumes

2.1 Summary

Vancouver West Side Volume
Data

ATR Counts - Video Camera & Radar Detection

March 18, 2015

ADT			
Roadway	EB/NB	WB/SB	Total
78th Street	6326	6706	13032
Fruit Valley Rd	4221	3609	7830
39th Street	2510	2654	5164
Fourth Plain Blvd	4940	4472	9412
Mill Plain Blvd	4044	3100	7144

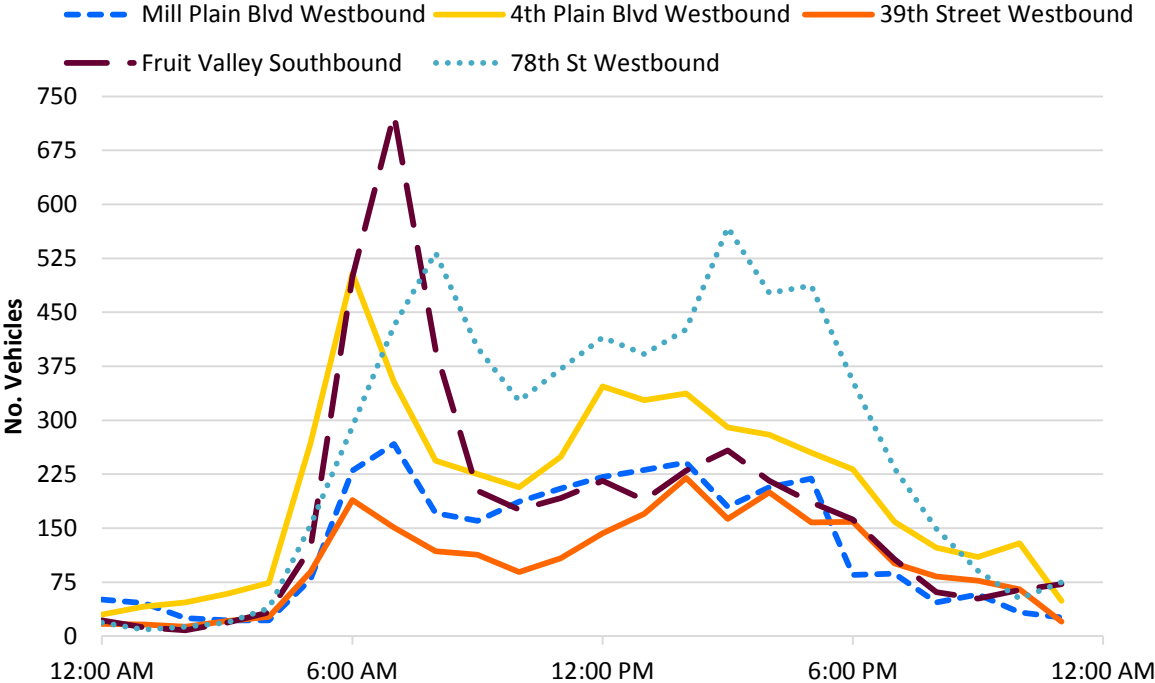
Daily Truck Traffic						
Road	EB/NB	%	WB/SB	%	Total	Daily Trucks
78th Street	94	7%	61	5%	6%	155
Fruit Valley Rd	114		118			232
39th Street	51	4%	47	4%	4%	98
Fourth Plain Blvd	342	25%	450	35%	30%	792
Mill Plain Blvd	863	64%	740	57%	61%	1603

Hourly Volumes Westbound/Southbound						Hourly Truck Volumes Westbound/Southbound						
Hour	Mill Plain Blvd Westbound	4th Plain Blvd Westbound	39th Street Westbound	78th St Westbound	Fruit Valley Southbound	Hour	Mill Plain Blvd Westbound	4th Plain Blvd Westbound	39th Street Westbound	78th St Westbound	Fruit Valley Southbound	NW 78th St Westbound (L>25 ft)
12:00 AM	51	30	17	19	22	12:00 AM	34	4	1	0	0	0
1:00 AM	46	41	16	9	12	1:00 AM	32	5	0	0	0	1
2:00 AM	25	47	13	13	8	2:00 AM	21	6	0	3	0	3
3:00 AM	22	59	21	19	19	3:00 AM	11	5	0	1	1	1
4:00 AM	22	74	27	39	33	4:00 AM	2	5	2	4	8	4
5:00 AM	79	268	89	154	122	5:00 AM	5	13	2	4	4	5
6:00 AM	230	504	189	291	499	6:00 AM	22	23	5	1	15	13
7:00 AM	267	353	151	431	725	7:00 AM	40	29	1	2	17	22
8:00 AM	171	244	118	533	398	8:00 AM	46	38	2	5	8	39
9:00 AM	160	225	113	401	202	9:00 AM	53	50	8	6	12	26
10:00 AM	187	207	89	327	176	10:00 AM	58	42	3	3	7	25
11:00 AM	205	249	108	371	192	11:00 AM	53	38	4	10	11	35
12:00 PM	221	347	143	415	216	12:00 PM	51	46	4	2	7	31
1:00 PM	231	328	170	392	189	1:00 PM	56	39	2	5	4	29
2:00 PM	241	337	220	426	230	2:00 PM	58	13	3	2	4	34
3:00 PM	180	290	163	568	258	3:00 PM	39	23	2	3	3	43
4:00 PM	207	280	200	477	216	4:00 PM	28	18	1	4	5	36
5:00 PM	219	255	158	487	186	5:00 PM	22	10	1	2	3	27
6:00 PM	85	232	159	354	162	6:00 PM	21	10	2	2	1	13

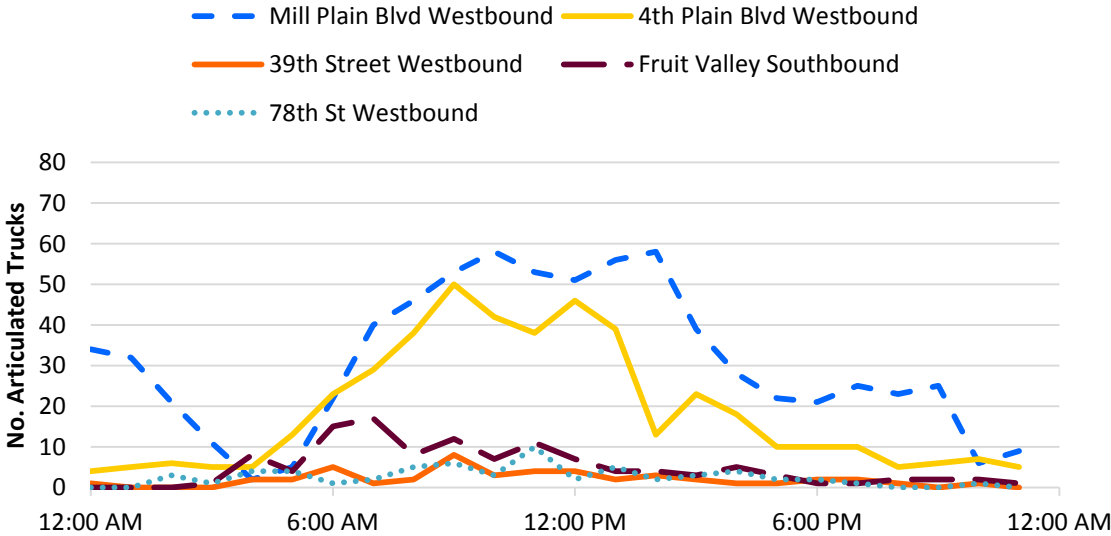
7:00 PM	87	159	101	233	107	7:00 PM	25	10	2	1	1	8	
8:00 PM	47	123	83	149	61	8:00 PM	23	5	1	0	2	5	
9:00 PM	58	110	77	91	52	9:00 PM	25	6	0	0	2	4	
10:00 PM	33	129	65	52	64	10:00 PM	6	7	1	1	2	1	
11:00 PM	26	49	20	75	72	11:00 PM	9	5	0	0	1	1	
							Total	740	450	47	61	118	406
							% of Total	57%	35%	4%	5%		

Hourly Volumes Eastbound/Northbound						Hourly Truck Volumes Eastbound/Northbound							
Hour	Mill Plain Blvd Eastbound	4th Plain Blvd Eastbound	39th Street Eastbound	78th St Eastbound	Fruit Valley Northbound	Hour	Mill Plain Blvd Eastbound	4th Plain Blvd Eastbound	39th Street Eastbound	78th St Eastbound	Fruit Valley Northbound	NW 78th St Eastbound (L>25 ft)	
12:00 AM	47	32	25	33	18	12:00 AM	28	4	0	0	1	0	
1:00 AM	48	36	10	24	17	1:00 AM	34	5	2	0	0	0	
2:00 AM	45	30	13	26	19	2:00 AM	30	8	0	0	3	0	
3:00 AM	20	28	13	17	24	3:00 AM	14	12	0	0	1	2	
4:00 AM	37	37	18	39	20	4:00 AM	18	6	0	1	0	1	
5:00 AM	91	96	47	109	68	5:00 AM	15	13	1	1	9	2	
6:00 AM	289	194	120	307	157	6:00 AM	31	19	2	8	3	19	
7:00 AM	459	330	180	349	148	7:00 AM	42	20	1	13	5	43	
8:00 AM	302	270	179	287	138	8:00 AM	65	20	3	8	10	40	
9:00 AM	215	211	124	237	130	9:00 AM	74	27	8	8	13	29	
10:00 AM	209	212	120	272	155	10:00 AM	66	39	8	5	4	22	
11:00 AM	271	312	134	316	185	11:00 AM	65	22	5	12	9	35	
12:00 PM	237	293	147	391	214	12:00 PM	39	32	4	9	12	31	
1:00 PM	236	257	121	404	229	1:00 PM	53	23	2	5	4	34	
2:00 PM	241	277	204	471	314	2:00 PM	65	32	2	6	10	41	
3:00 PM	403	442	268	502	367	3:00 PM	54	17	2	3	8	42	
4:00 PM	293	400	231	576	399	4:00 PM	32	11	5	4	7	28	
5:00 PM	200	299	206	637	357	5:00 PM	15	10	1	3	0	24	
6:00 PM	95	192	144	520	201	6:00 PM	24	4	2	4	2	16	
7:00 PM	88	157	102	420	135	7:00 PM	25	8	1	1	4	14	
8:00 PM	77	110	77	329	110	8:00 PM	29	2	0	1	1	14	
9:00 PM	57	84	46	239	87	9:00 PM	24	4	1	2	3	5	
10:00 PM	33	60	49	146	79	10:00 PM	4	1	0	0	3	0	
11:00 PM	51	96	76	55	38	11:00 PM	17	3	1	0	2	1	
							Total	863	342	51	94	114	443
							% of Total	64%	25%	4%	7%		
							Total Total	1603	792	98	155	232	
							% of Total	61%	30%	4%	6%		

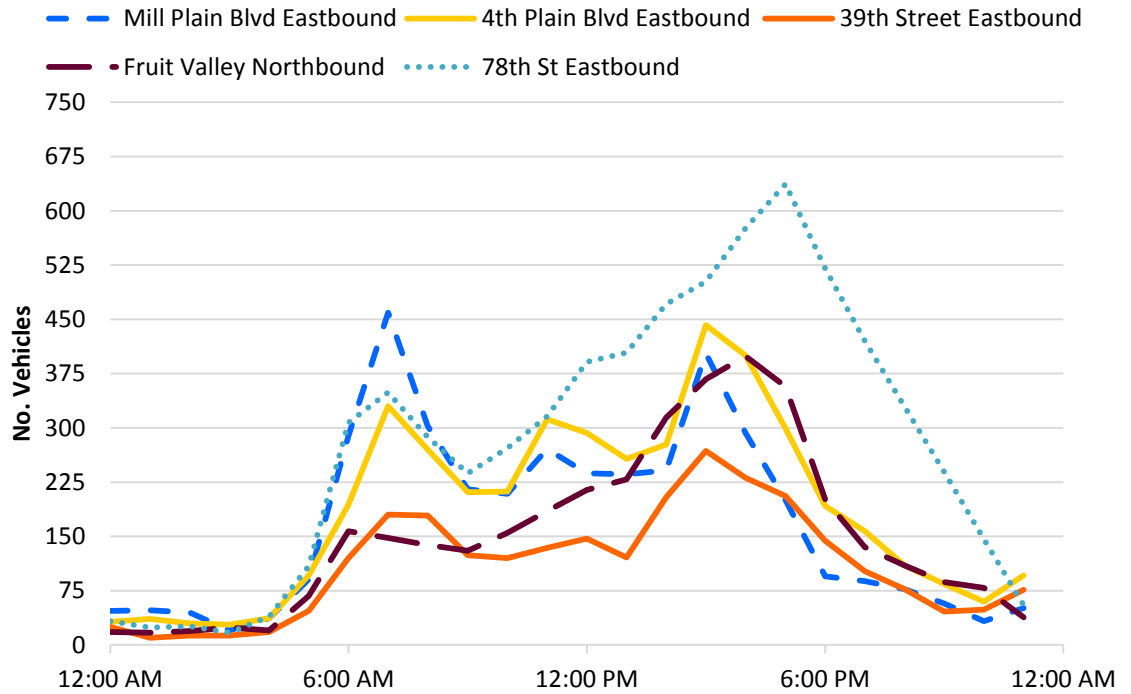
Hourly Volumes to Industrial District



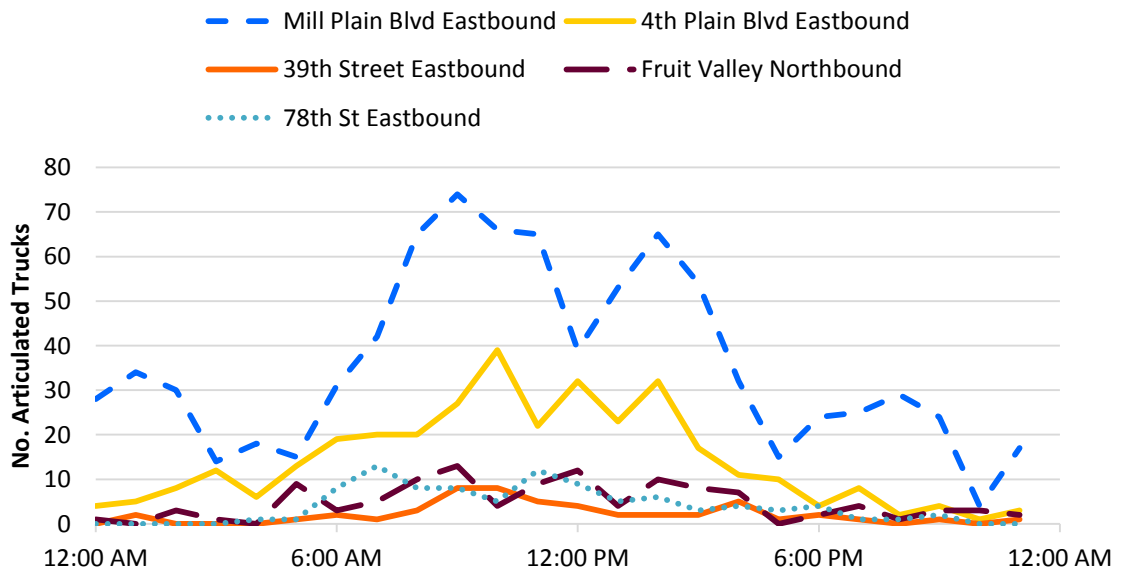
Hourly Truck Volumes to Industrial District



Hourly Volumes to I-5



Hourly Truck Volumes to I-5



2.2 Volumes by Corridor

Vancouver West Side Volume

Data

ATR Counts - Video Camera & Radar Detection

March 18, 2015

ADT			
Roadway	EB/NB	WB/SB	Total
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Fruit Valley Rd	4221	3609	7830
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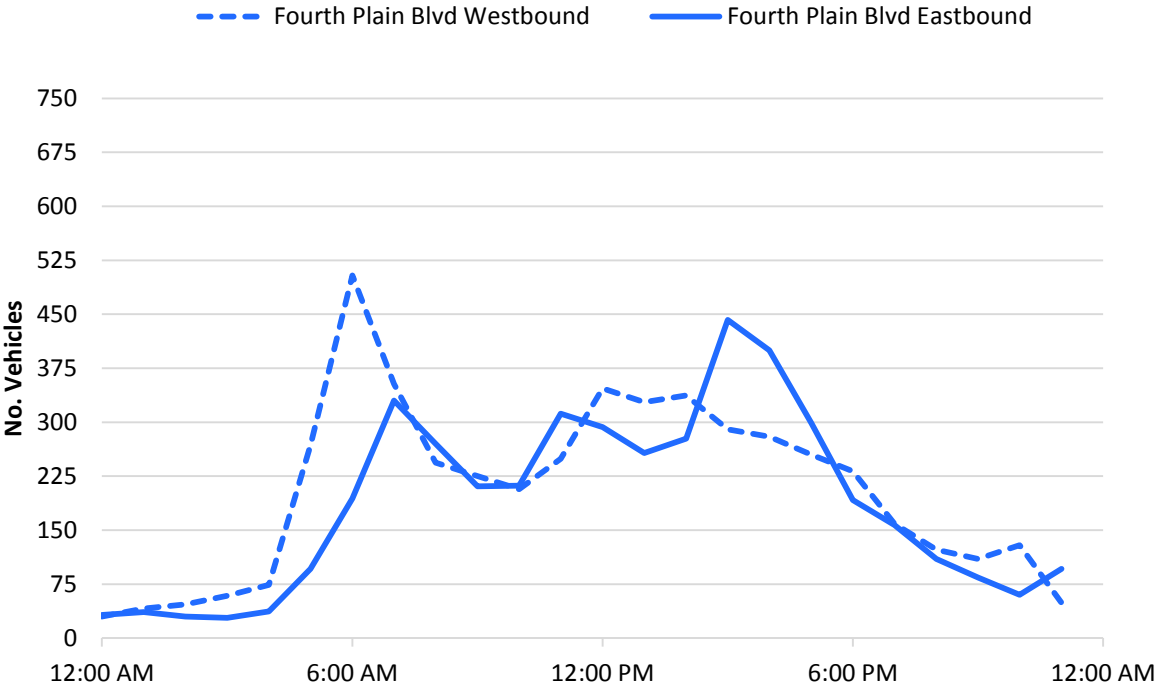
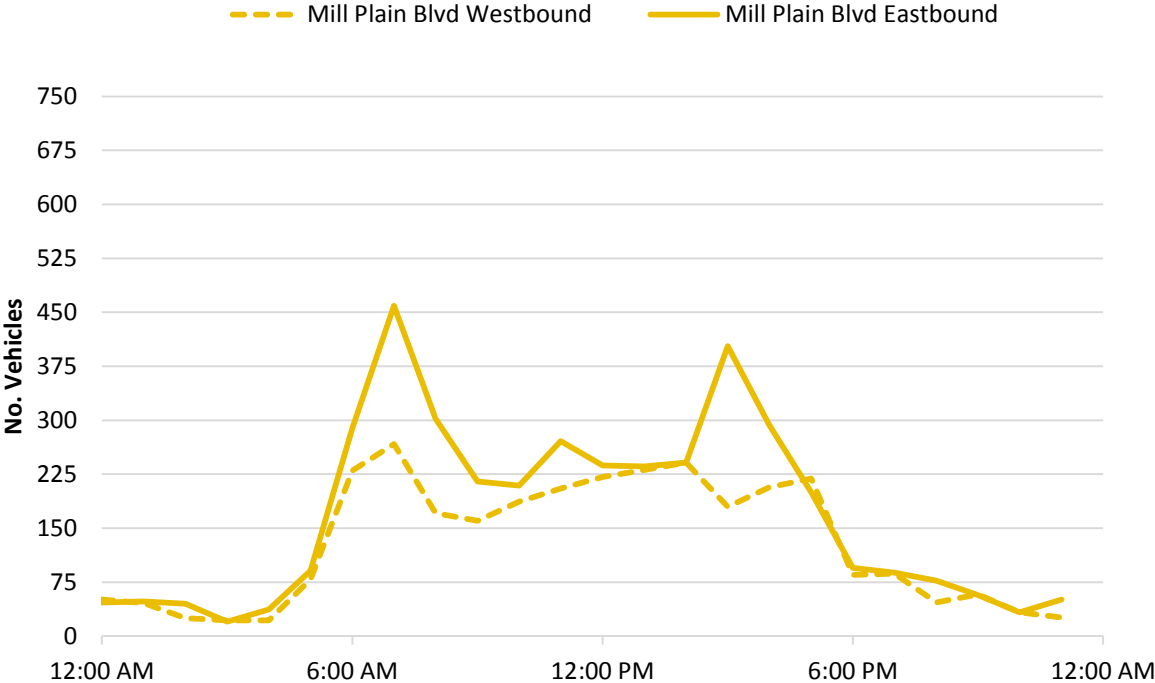
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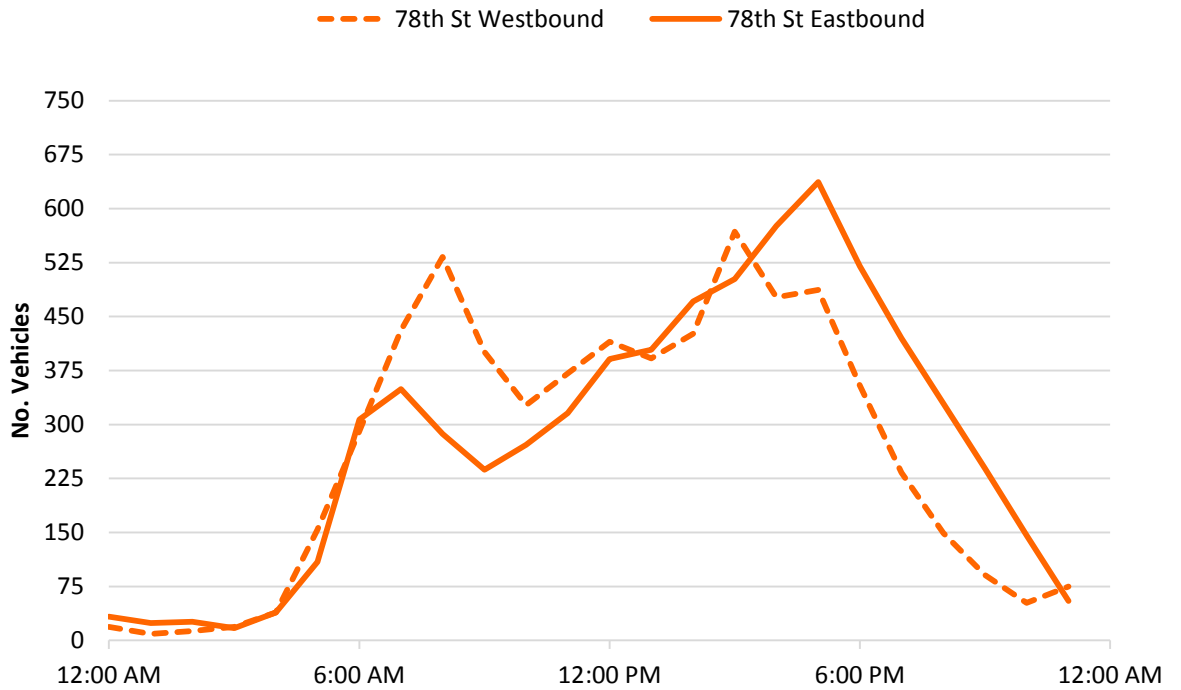
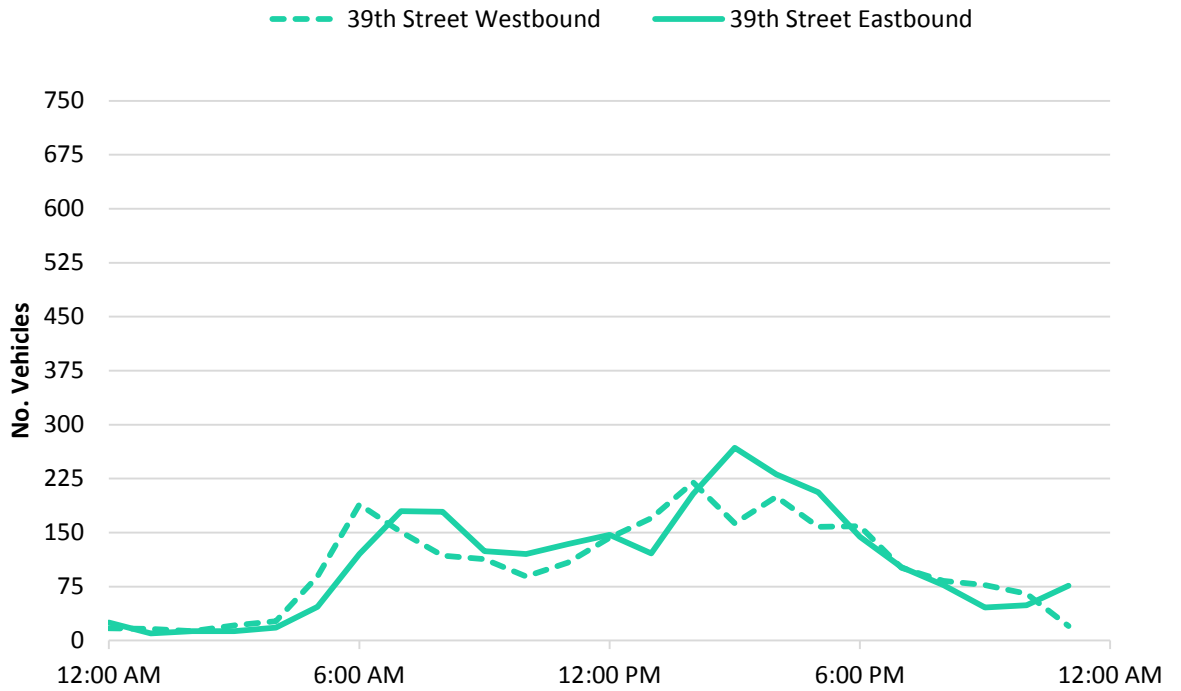
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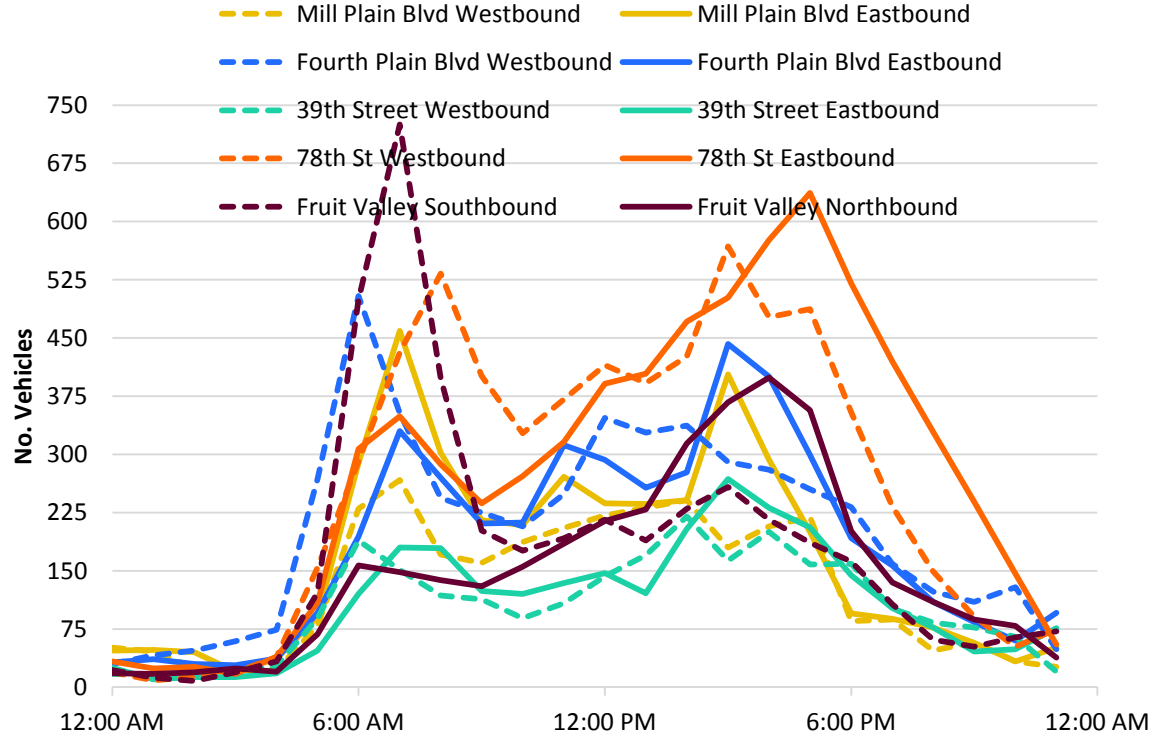
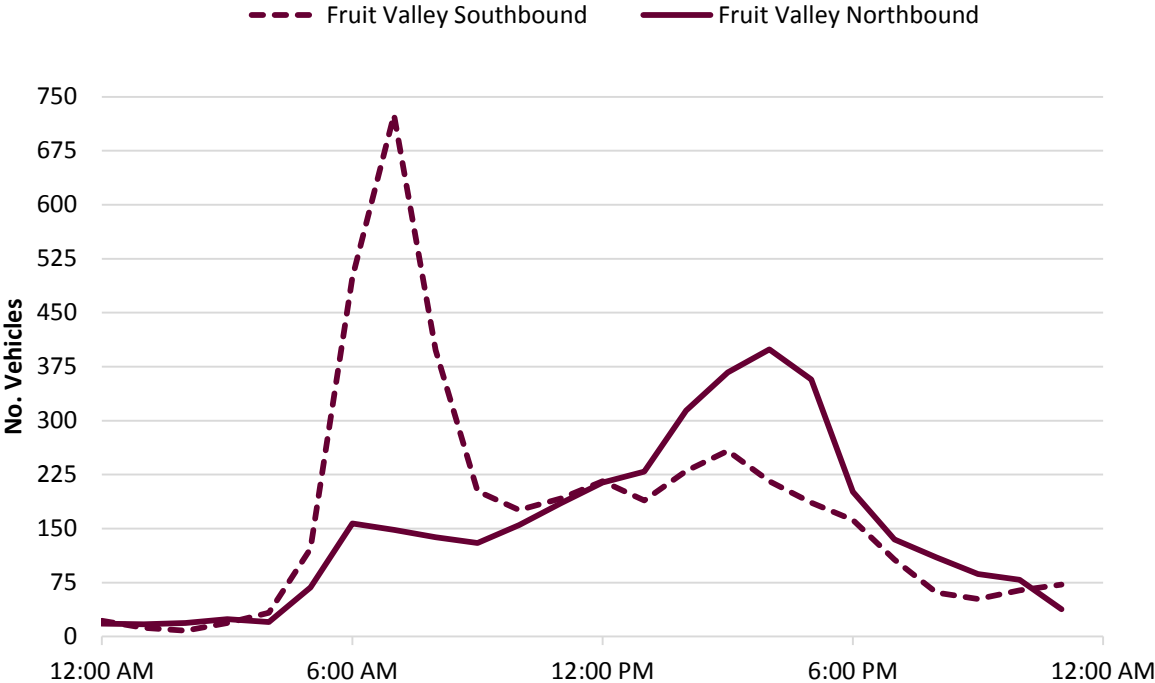
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4:00 AM	37	37	18	39	20	4:00 AM	18	6	0	1	0	1	
5:00 AM	91	96	47	109	68	5:00 AM	15	13	1	1	9	2	
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1:00 PM	236	257	121	404	229	1:00 PM	53	23	2	5	4	34	
2:00 PM	241	277	204	471	314	2:00 PM	65	32	2	6	10	41	
3:00 PM	403	442	268	502	367	3:00 PM	54	17	2	3	8	42	
4:00 PM	293	400	231	576	399	4:00 PM	32	11	5	4	7	28	
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8:00 PM	77	110	77	329	110	8:00 PM	29	2	0	1	1	14	
9:00 PM	57	84	46	239	87	9:00 PM	24	4	1	2	3	5	
10:00 PM	33	60	49	146	79	10:00 PM	4	1	0	0	3	0	
11:00 PM	51	96	76	55	38	11:00 PM	17	3	1	0	2	1	
							Total	863	342	51	94	114	443
							% of Total	64%	25%	4%	7%		
							Total Total	1603	792	98	155	232	
							% of Total	61%	30%	4%	6%		

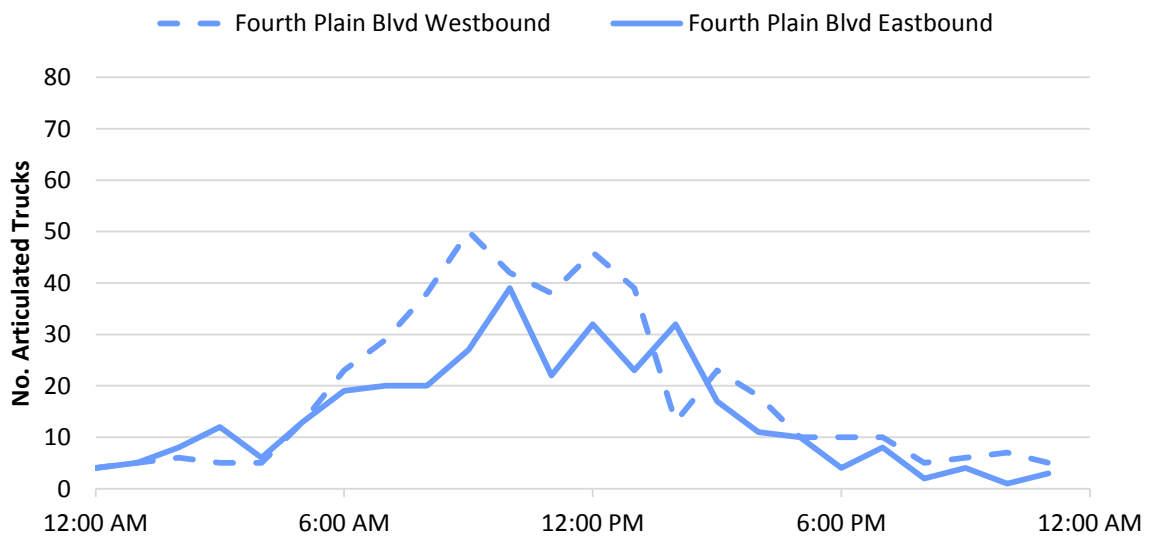
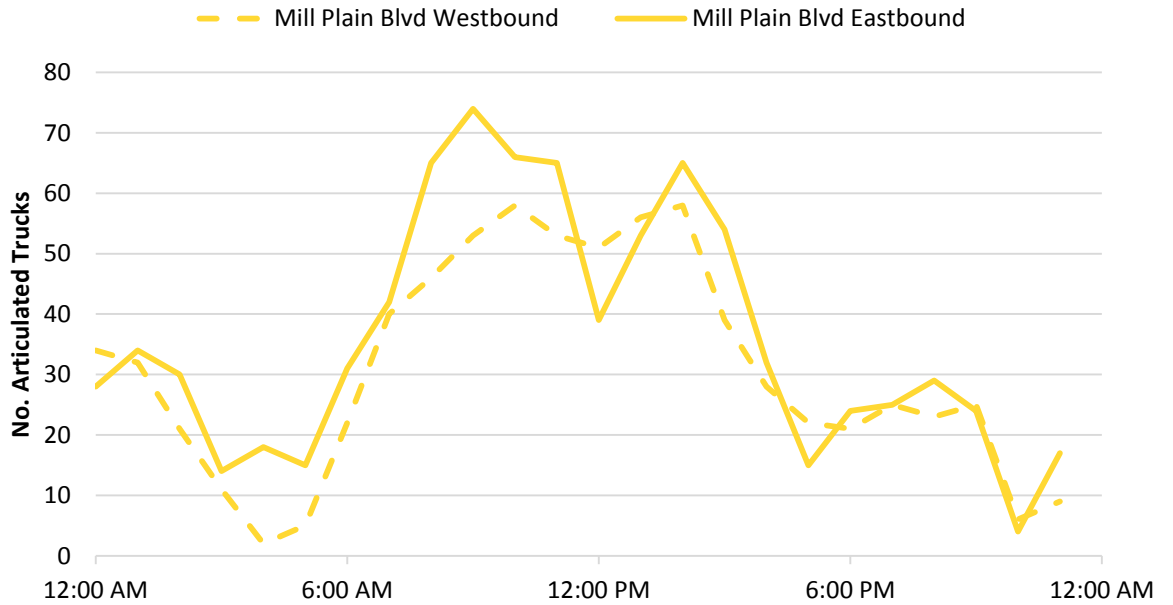
Overall Volumes

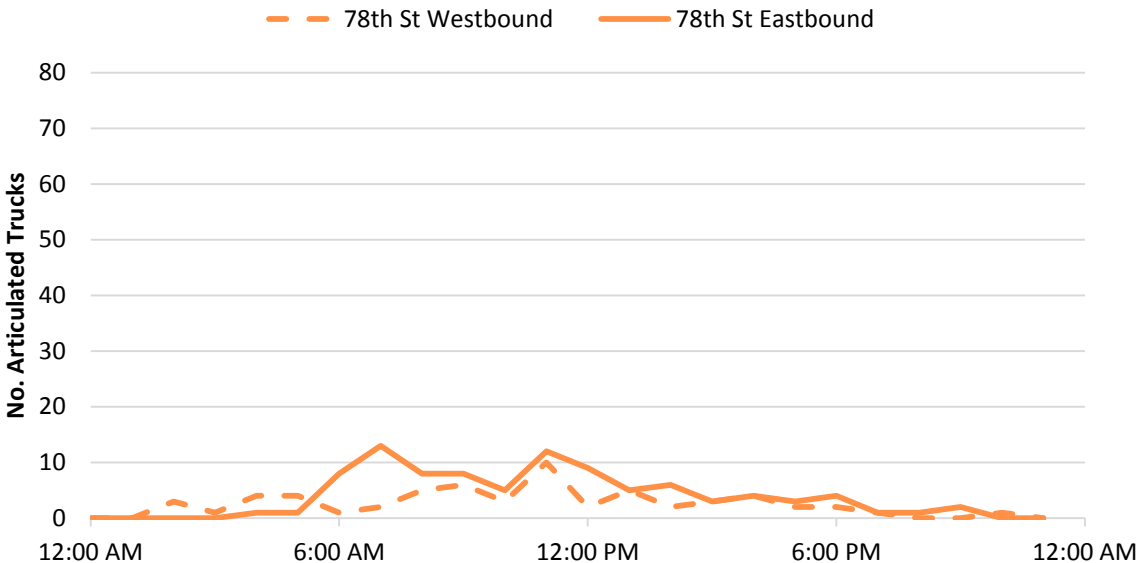
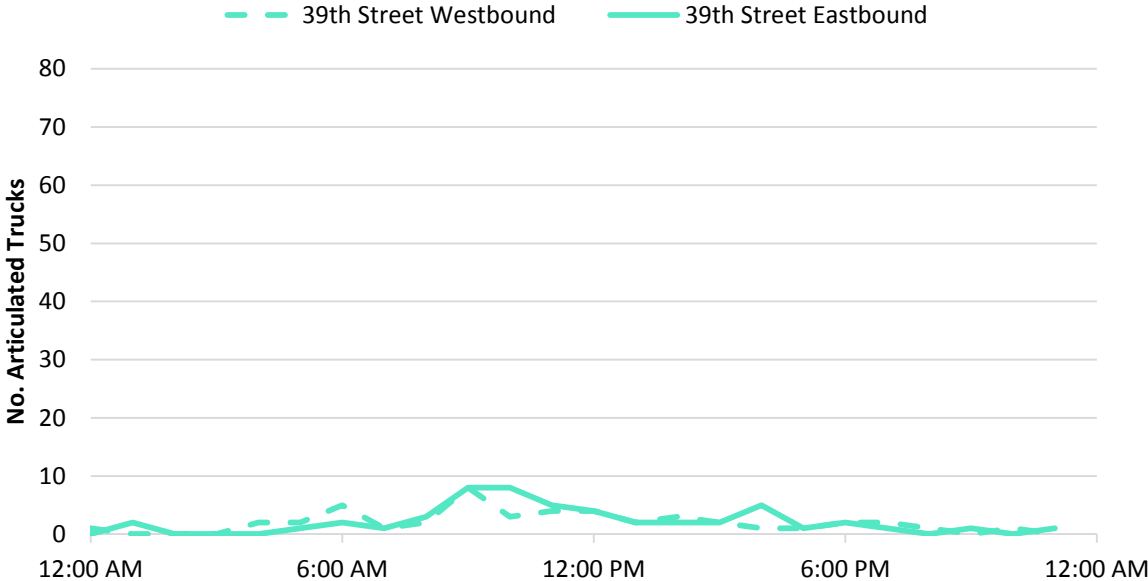


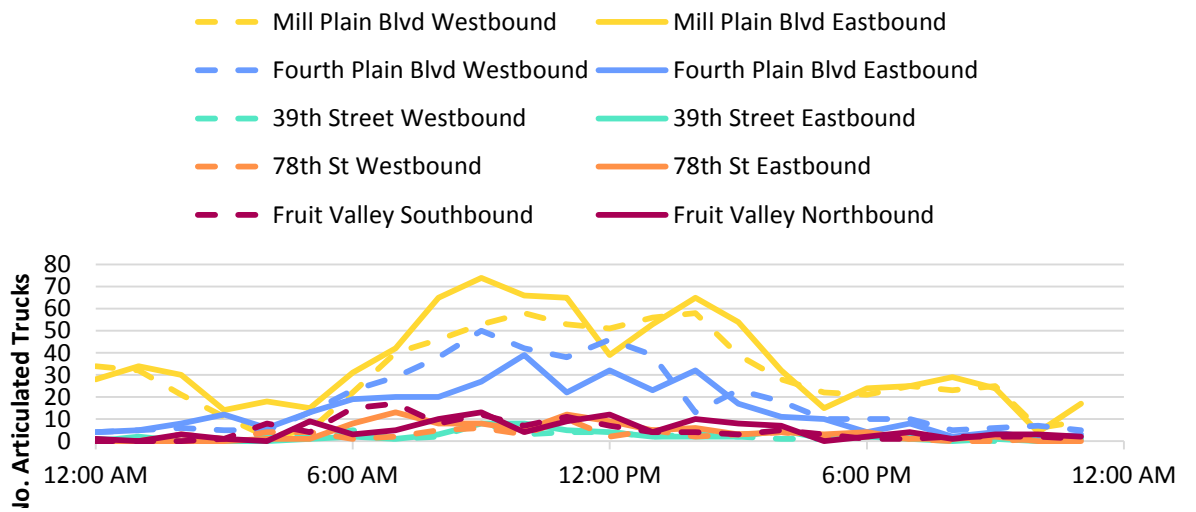
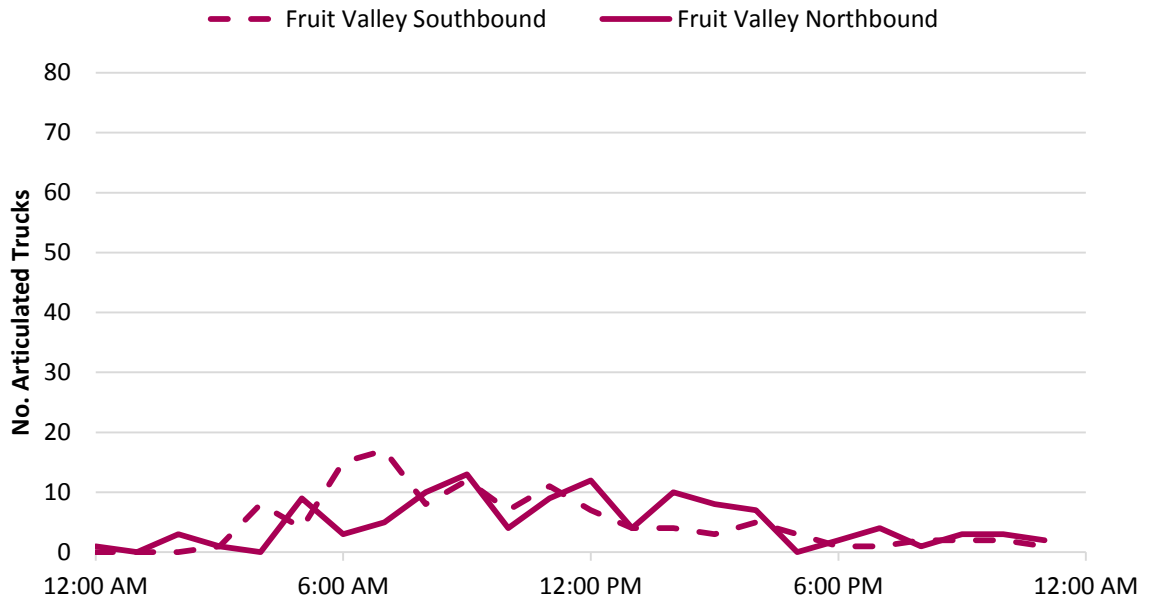




Truck Volumes







3 Existing Travel Time Estimates

3.1 Summary

Vancouver West Side Travel Time Data
Travel Time for CORRIDORS
Blue Tooth Collection Counts
3/11/2015 - 3/25/2015

Travel Time (minutes)								
Summary of Routes		Average Travel Time Overall	Weekday		Saturday	Weekday AM	# of hrs of data	
			10 AM - 2 PM	3 PM - 6 PM	9 AM - 3 PM		Weekday PM	Weekend
78th Street	EB	100 (1:40)	2	1	2	44	33	12
	WB	103 (1:43)	2	1	2	44	33	12
39th Street*	EB	100 (1:40)	2	2	N/A	6	6	0
	WB	87 (1:27)	1	2	N/A	7	6	0
4th Plain Boulevard	EB	250.8 (4:10)	5	3	6	49	24	12
	WB	226 (3:46)	4	4	4	32	24	12
Mill Plain Boulevard	EB	288 (4:48)	7	4	5	40	30	12
	WB	268 (4:28)	4	3	5	40	30	12
Fruit Valley Road	NB	423 (7:03)	10	6	6	22	18	6
	SB	397 (6:37)	9	8	16	22	18	5

*Note: Travel Time for 39th is for 1/2 the corridor

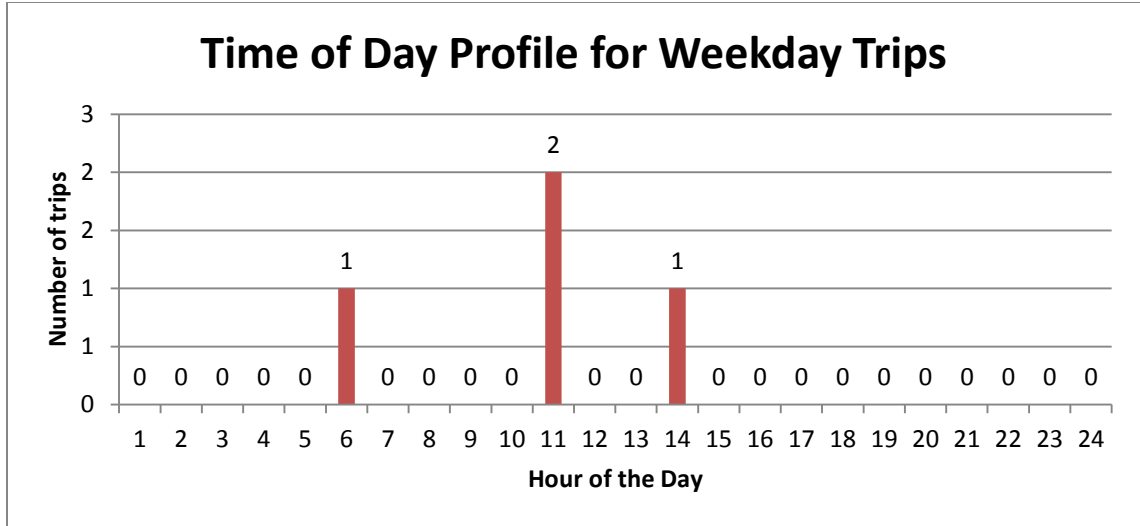
Vehicle Speed (mph)						
Summary of Routes		Average Speed Overall (mph)	Weekday		Saturday	Road Length
			10 AM - 1 PM	3 PM - 6 PM	9 AM - 3 PM	
78th Street	EB	42	43	56	38	1.28
	WB	42	40	58	42	
39th Street	EB	24	49	53	N/A	1.44
	WB	27	60	47	N/A	
4th Plain Boulevard	EB	22	20	36	16	1.61
	WB	24	22	26	27	
Mill Plain Boulevard	EB	22	16	27	19	1.71
	WB	24	23	31	19	
Fruit Valley Road	NB	26	16	26	26	2.68
	SB	26	18	19	10	

Note: Speed based on distance measured from Google Earth

4 Origin Destination Data

4.1 I-5 n/o 78th St. to Columbia River Bridge via Main St. Diversion

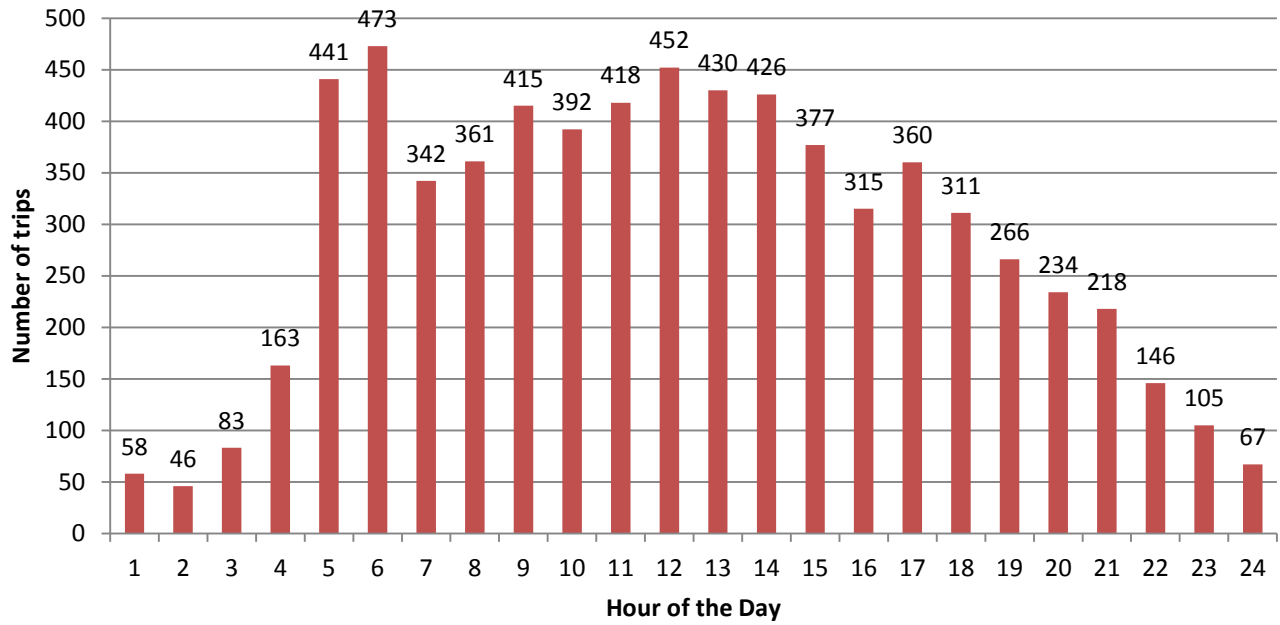
Hour of Day	Total Trips	Weekday Trips	Weekend Trips	Percentage of Total Trips
1	0	0	0	0%
2	0	0	0	0%
3	0	0	0	0%
4	0	0	0	0%
5	0	0	0	0%
6	1	1	0	17%
7	0	0	0	0%
8	0	0	0	0%
9	0	0	0	0%
10	0	0	0	0%
11	2	2	0	33%
12	2	0	1	33%
13	0	0	0	0%
14	1	1	0	17%
15	0	0	0	0%
16	0	0	0	0%
17	0	0	0	0%
18	0	0	0	0%
19	0	0	0	0%
20	0	0	0	0%
21	0	0	0	0%
22	0	0	0	0%
23	0	0	0	0%
24	0	0	0	0%
Total	6	4	1	100%



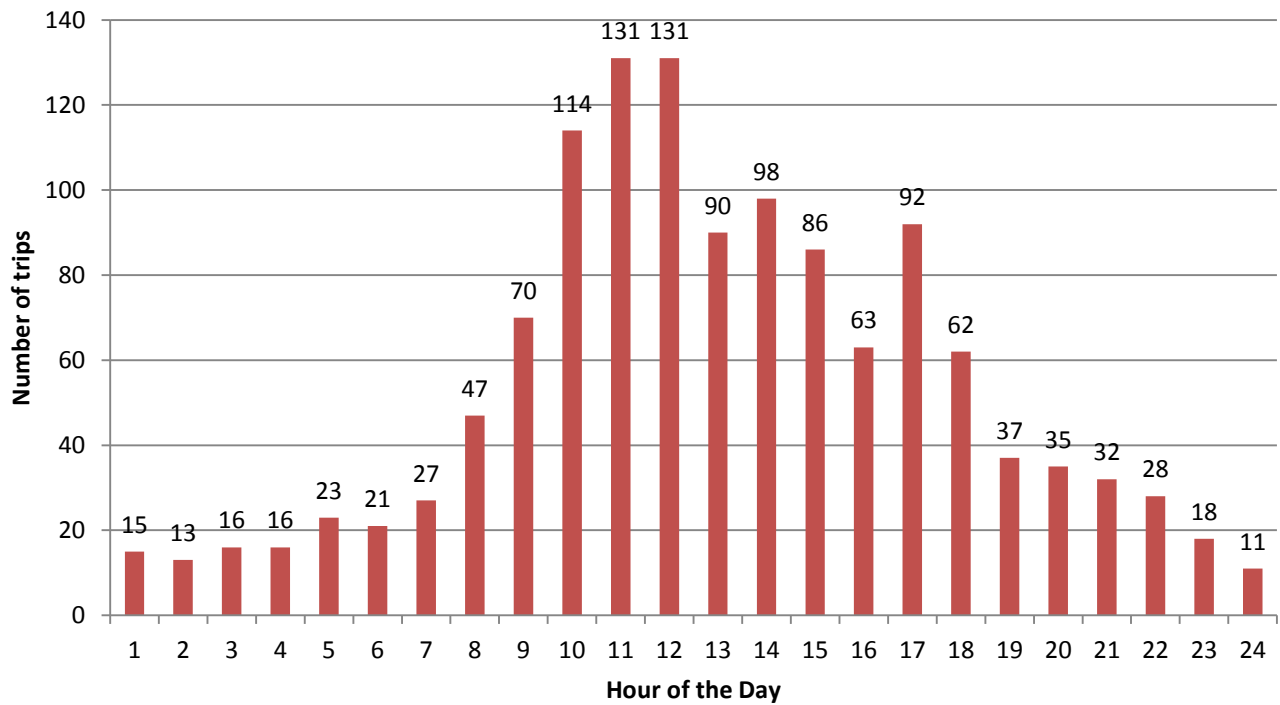
4.2 I-5 n/o 78th St. to Columbia River Bridge via I-5

Hour of Day	Total Trips	Weekday Trips	Weekend Trips	Percentage of Total trips
1	86	58	15	1%
2	68	46	13	1%
3	110	83	16	1%
4	183	163	16	2%
5	473	441	23	5%
6	509	473	21	6%
7	387	342	27	4%
8	445	361	47	5%
9	521	415	70	6%
10	565	392	114	6%
11	630	418	131	7%
12	685	452	131	7%
13	585	430	90	6%
14	620	426	98	7%
15	557	377	86	6%
16	470	315	63	5%
17	523	360	92	6%
18	442	311	62	5%
19	358	266	37	4%
20	318	234	35	3%
21	292	218	32	3%
22	193	146	28	2%
23	141	105	18	2%
24	83	67	11	1%
Total	9244	6899	1276	100%

Time of Day Profile for Weekday Trips

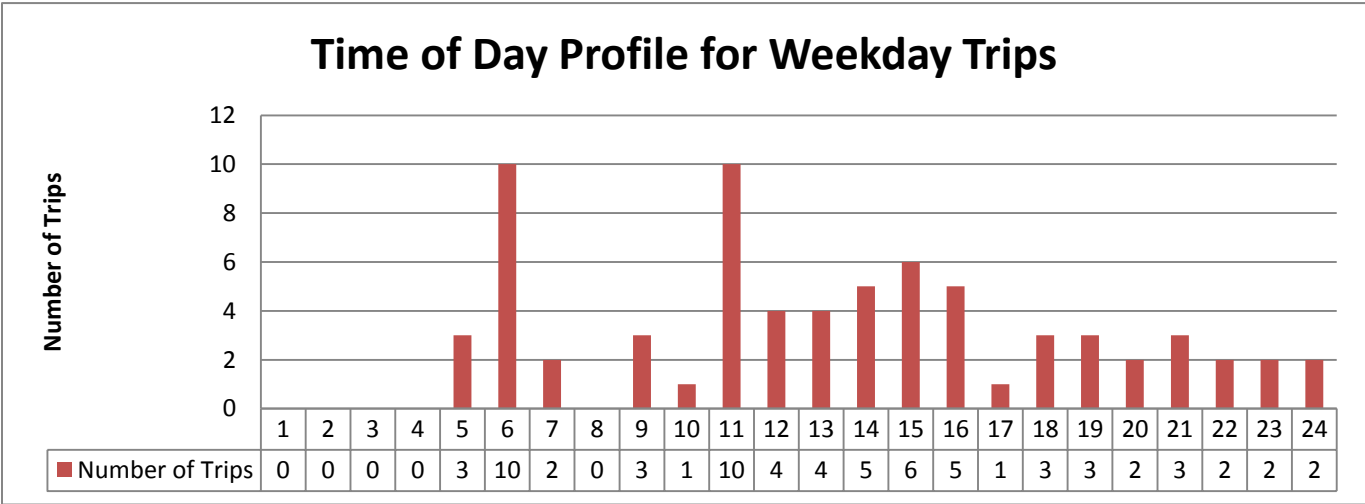


Time of Day Profile for Weekend Trips



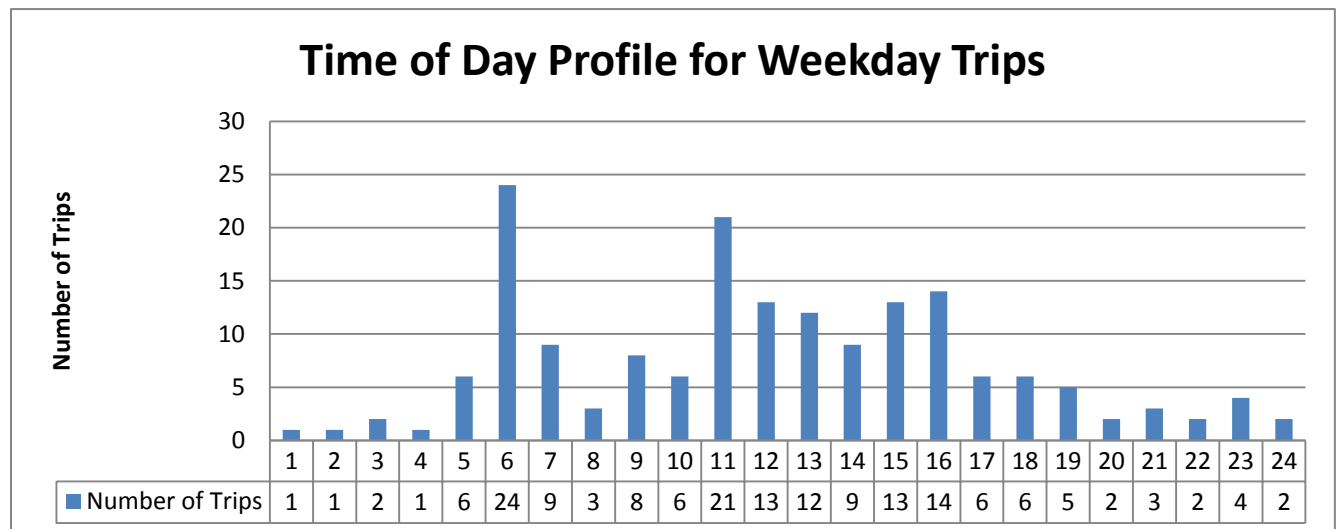
4.3 Time of Day: I-5 to Main to I-5

Hour of the Day	Number of Trips
1	0
2	0
3	0
4	0
5	3
6	10
7	2
8	0
9	3
10	1
11	10
12	4
13	4
14	5
15	6
16	5
17	1
18	3
19	3
20	2
21	3
22	2
23	2
24	2
Total	71



4.4 Time of Day: Main to I-5

Hour of the Day	Number of Trips
1	1
2	1
3	2
4	1
5	6
6	24
7	9
8	3
9	8
10	6
11	21
12	13
13	12
14	9
15	13
16	14
17	6
18	6
19	5
20	2
21	3
22	2
23	4
24	2
Total	173



5 Existing Crash Data

5.1 Summary

Summary of Crashes
2010-2014 WSDOT Crash Data
Vancouver Westside Mobility Strategy

Summary							
Roadway	Total Crashes	Total Injuries	Total Fatalities	Pedestrian Crashes	Bike Crashes	Crash Rate Per Mile	Crash Percentage
Fruit Valley Road	20	11	0	0	1	1.5	2%
Main Street	122	81	1	11	5	10.5	14%
Fourth Plain Blvd	87	55	0	4	4	10.8	10%
Mill Plain Blvd	115	68	0	6	3	13.5	13%
39th Street	64	29	0	0	1	8.9	7%
Total West Side	874	351	8	21	14	-	-

Roadway	Total Crashes	Length	Crashes per Mile	AADT	Crash Rate
Fruit Valley Road	20	2.75	1.45	7884	5.05
Main Street	122	2.13	11.46	11543	27.19
Fourth Plain Blvd	87	1.34	12.99	11242	31.65
Mill Plain Blvd	115	1.59	14.47	27445	14.44
39th Street	64	1.37	9.34	14418	17.75

Roadway	Roadway Length (mi)	No. Crashes	ADT	Crashes per 100 million vehicle-miles of travel	Crash rate by route length
Fruit Valley Road	2.68	20	7830	52	1.5
Main Street	2.33	122	11543	249	10.5
Fourth Plain Blvd	1.61	87	9412	315	10.8
Mill Plain Blvd	1.71	115	7144	516	13.5
39th Street	1.44	64	5164	472	8.9
Total	9.77	408	29550	77	8.4

Most Severe Injury	Crashes	Percent
Unknown	14	1.6%
No Injury	517	59.2%
Possible Injury	207	23.7%
Evident Injury	97	11.1%

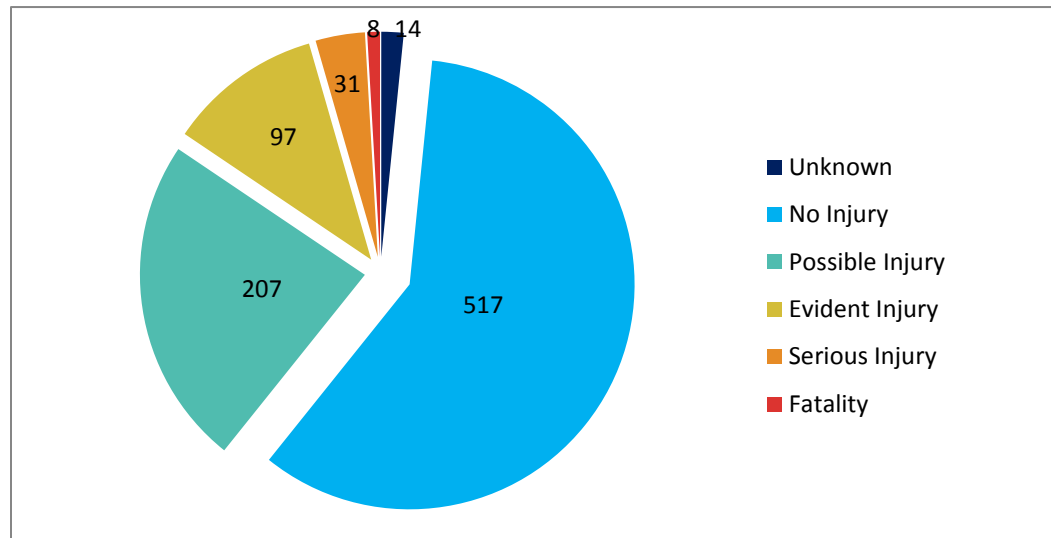
Truck Crashes	Veh 1	Veh 2	Percent
Truck & Trailer	1	1	0.2%
Truck Tractor & Semi-Trailer	9	8	2%
Truck - Double Trailer Combinations	0	1	0.1%
Truck Tractor	0	1	0.1%

Serious Injury	31	3.5%
Fatality	8	0.9%
Dead at Scene	5	0.6%
Died in Hospital	3	0.3%
Additional Data	Crashes	Percent
Total Injuries	351	40%
Alcohol-related crashes	63	7%
Total Fatalities	8	1%
Bike-Ped Fatalities*	6	75%
Total	874	100%

*Percent of West Side Fatalities

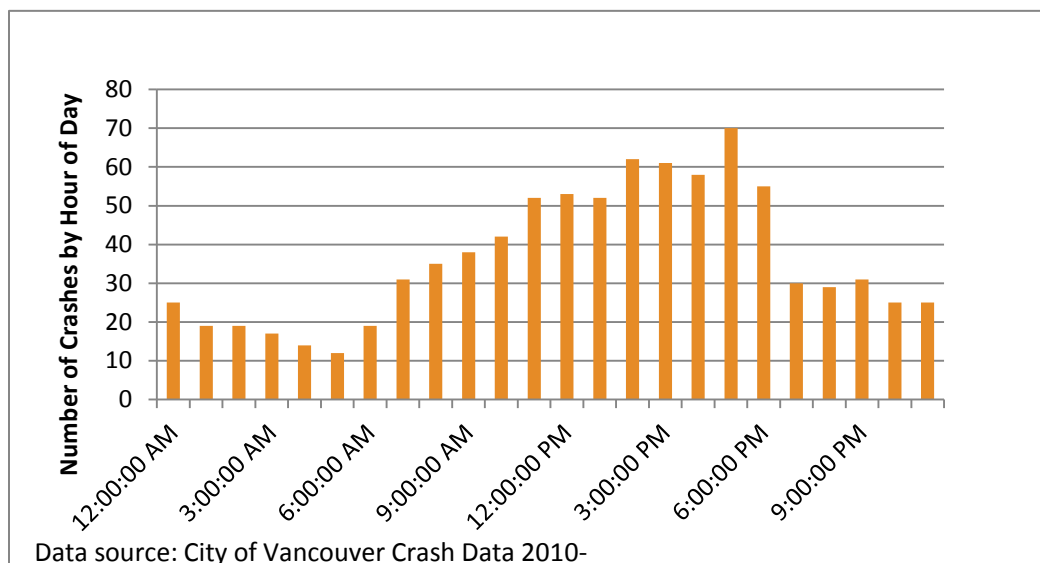
Total Truck Crashes	10	11	2.4%
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Top Crash Causes	No. Crashes	% of Total
Distracted Driver	48	5%
Under the Influence of Alcohol/Drugs	68	8%
Disobeyed Traffic Rules	224	26%
Exceeding Safe Speeds/Speed Limit	65	7%
Followed to Closely	45	5%
Unkown/None	81	9%
Improper Movement	66	8%

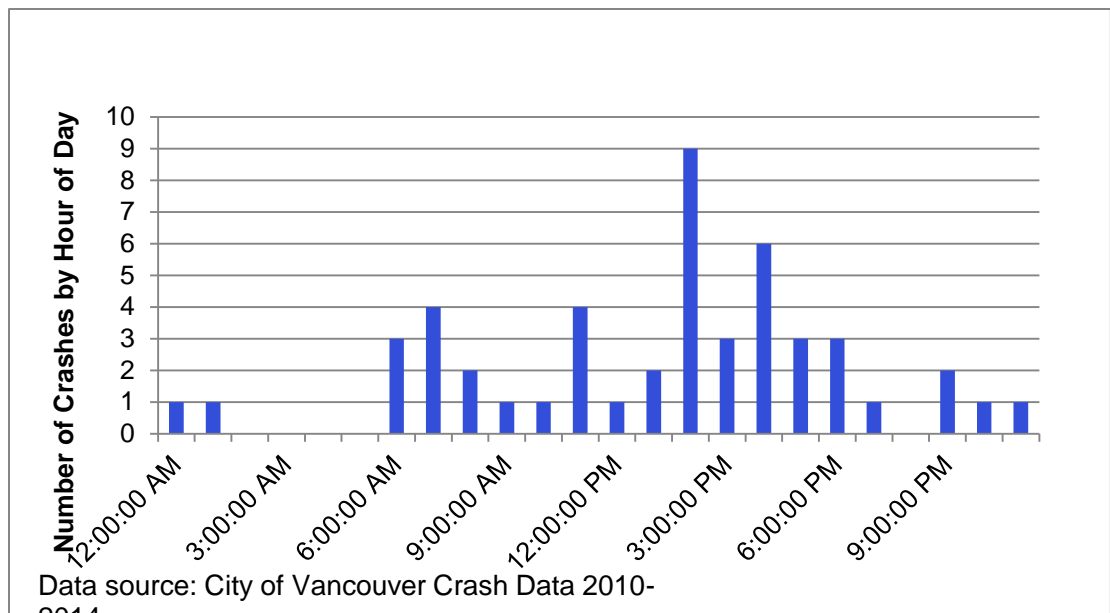


5.2 Time of Day Crashes

West Side of Vancouver		
No	TOD	TOD Count
0	12:00:00 AM	25
1	1:00:00 AM	19
2	2:00:00 AM	19
3	3:00:00 AM	17
4	4:00:00 AM	14
5	5:00:00 AM	12
6	6:00:00 AM	19
7	7:00:00 AM	31
8	8:00:00 AM	35
9	9:00:00 AM	38
10	10:00:00 AM	42
11	11:00:00 AM	52
12	12:00:00 PM	53
13	1:00:00 PM	52
14	2:00:00 PM	62
15	3:00:00 PM	61
16	4:00:00 PM	58
17	5:00:00 PM	70
18	6:00:00 PM	55
19	7:00:00 PM	30
20	8:00:00 PM	29
21	9:00:00 PM	31
22	10:00:00 PM	25
23	11:00:00 PM	25
		874

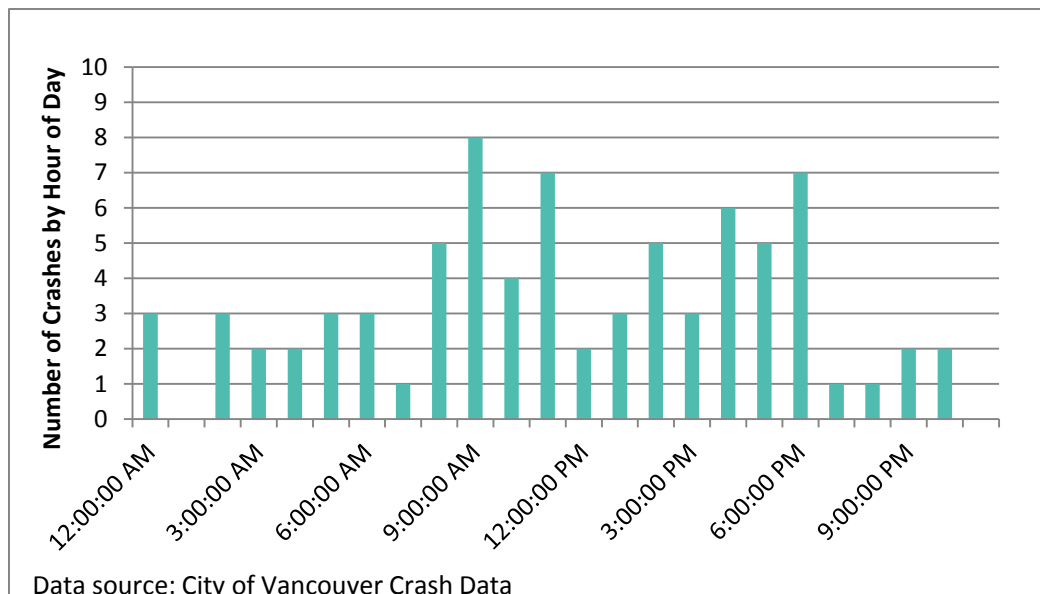


W Fourth Plain Blvd		
No	TOD	TOD Count
0	12:00:00 AM	1
1	1:00:00 AM	1
2	2:00:00 AM	0
3	3:00:00 AM	0
4	4:00:00 AM	0
5	5:00:00 AM	0
6	6:00:00 AM	3
7	7:00:00 AM	4
8	8:00:00 AM	2
9	9:00:00 AM	1
10	10:00:00 AM	1
11	11:00:00 AM	4
12	12:00:00 PM	1
13	1:00:00 PM	2
14	2:00:00 PM	9
15	3:00:00 PM	3
16	4:00:00 PM	6
17	5:00:00 PM	3
18	6:00:00 PM	3
19	7:00:00 PM	1
20	8:00:00 PM	0
21	9:00:00 PM	2
22	10:00:00 PM	1
23	11:00:00 PM	1
		49



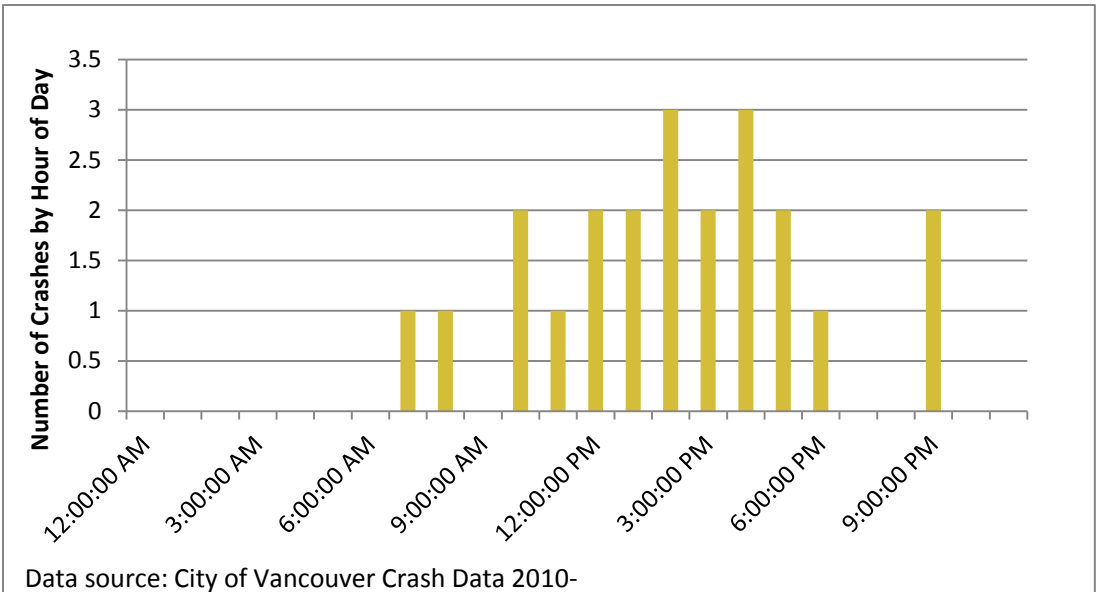
W Mill Plain Blvd.		
No	TOD	TOD Count
0	12:00:00 AM	3
1	1:00:00 AM	0
2	2:00:00 AM	3
3	3:00:00 AM	2
4	4:00:00 AM	2
5	5:00:00 AM	3
6	6:00:00 AM	3
7	7:00:00 AM	1
8	8:00:00 AM	5
9	9:00:00 AM	8
10	10:00:00 AM	4
11	11:00:00 AM	7
12	12:00:00 PM	2
13	1:00:00 PM	3
14	2:00:00 PM	5
15	3:00:00 PM	3
16	4:00:00 PM	6
17	5:00:00 PM	5
18	6:00:00 PM	7
19	7:00:00 PM	1
20	8:00:00 PM	1
21	9:00:00 PM	2
22	10:00:00 PM	2
23	11:00:00 PM	0

78



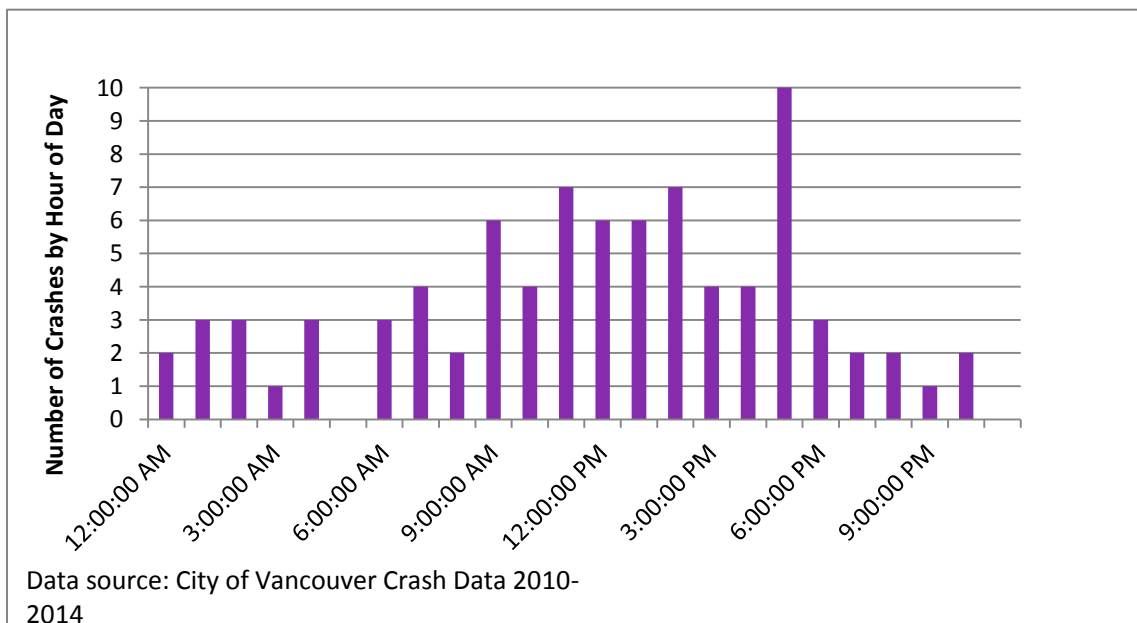
W 39th Street		
No	TOD	TOD Count
0	12:00:00 AM	0
1	1:00:00 AM	0
2	2:00:00 AM	0
3	3:00:00 AM	0
4	4:00:00 AM	0
5	5:00:00 AM	0
6	6:00:00 AM	0
7	7:00:00 AM	1
8	8:00:00 AM	1
9	9:00:00 AM	0
10	10:00:00 AM	2
11	11:00:00 AM	1
12	12:00:00 PM	2
13	1:00:00 PM	2
14	2:00:00 PM	3
15	3:00:00 PM	2
16	4:00:00 PM	3
17	5:00:00 PM	2
18	6:00:00 PM	1
19	7:00:00 PM	0
20	8:00:00 PM	0
21	9:00:00 PM	2
22	10:00:00 PM	0
23	11:00:00 PM	0

22

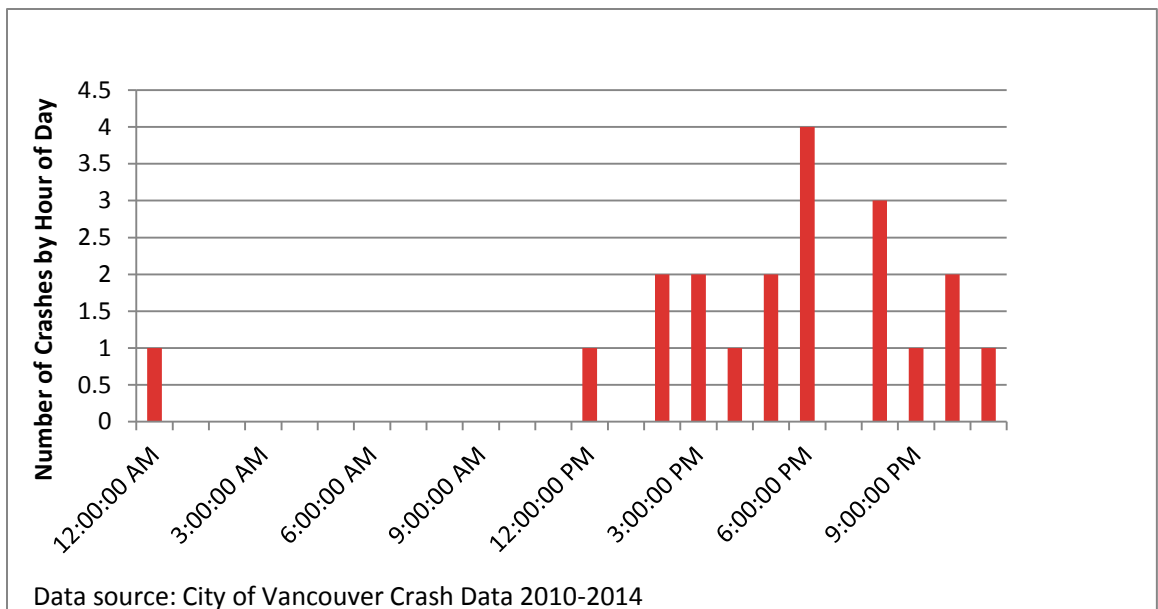


No	TOD	TOD Count
0	12:00:00 AM	2
1	1:00:00 AM	3
2	2:00:00 AM	3
3	3:00:00 AM	1
4	4:00:00 AM	3
5	5:00:00 AM	0
6	6:00:00 AM	3
7	7:00:00 AM	4
8	8:00:00 AM	2
9	9:00:00 AM	6
10	10:00:00 AM	4
11	11:00:00 AM	7
12	12:00:00 PM	6
13	1:00:00 PM	6
14	2:00:00 PM	7
15	3:00:00 PM	4
16	4:00:00 PM	4
17	5:00:00 PM	10
18	6:00:00 PM	3
19	7:00:00 PM	2
20	8:00:00 PM	2
21	9:00:00 PM	1
22	10:00:00 PM	2
23	11:00:00 PM	0

85

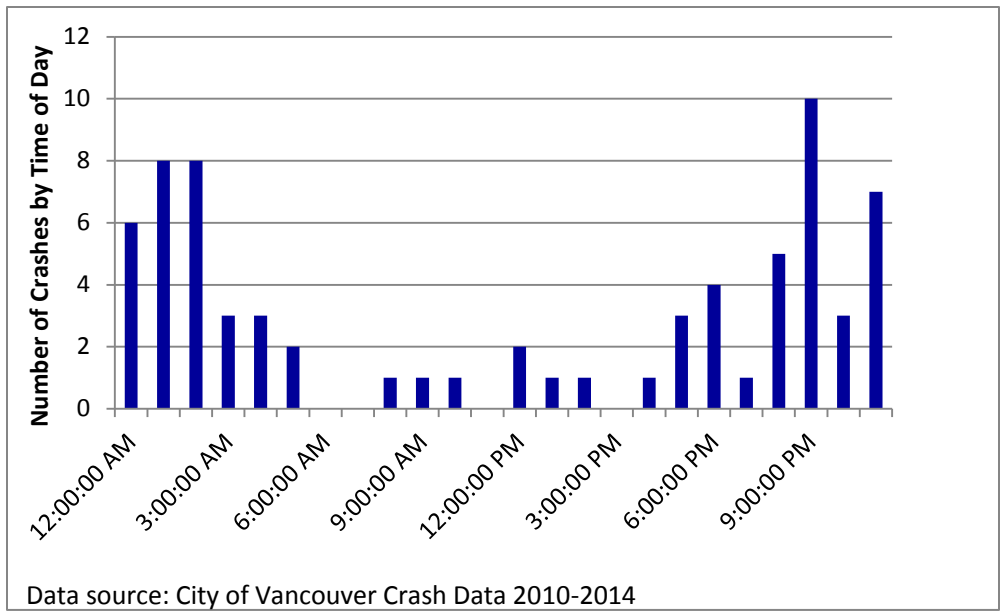


Fruit Balley Road (NW Fruit Valley Road)		
No	TOD	TOD Count
0	12:00:00 AM	1
1	1:00:00 AM	0
2	2:00:00 AM	0
3	3:00:00 AM	0
4	4:00:00 AM	0
5	5:00:00 AM	0
6	6:00:00 AM	0
7	7:00:00 AM	0
8	8:00:00 AM	0
9	9:00:00 AM	0
10	10:00:00 AM	0
11	11:00:00 AM	0
12	12:00:00 PM	1
13	1:00:00 PM	0
14	2:00:00 PM	2
15	3:00:00 PM	2
16	4:00:00 PM	1
17	5:00:00 PM	2
18	6:00:00 PM	4
19	7:00:00 PM	0
20	8:00:00 PM	3
21	9:00:00 PM	1
22	10:00:00 PM	2
23	11:00:00 PM	1
		20



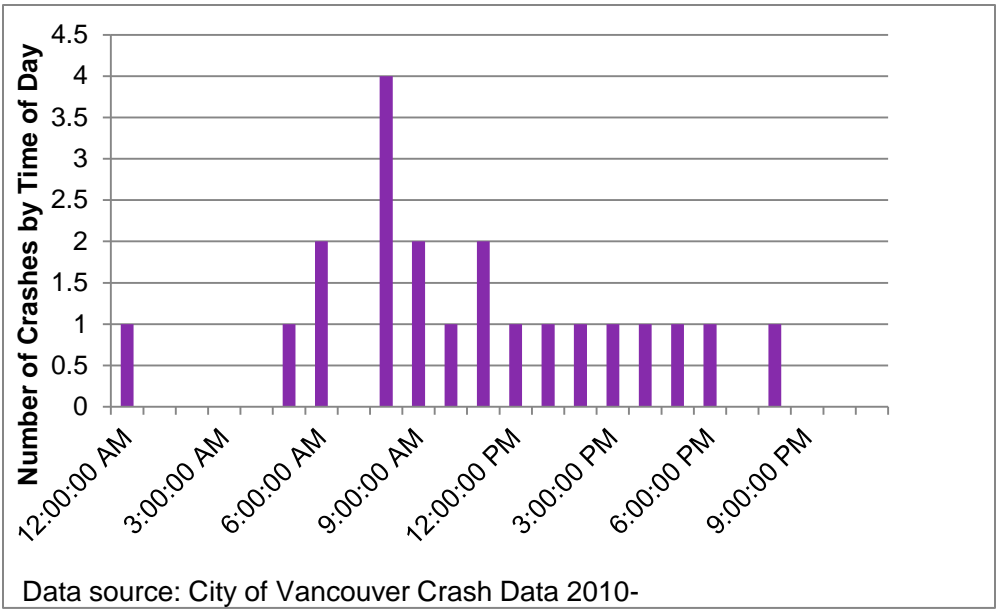
Alcohol-Related Crashes		
No	TOD	TOD Count
0	12:00:00 AM	6
1	1:00:00 AM	8
2	2:00:00 AM	8
3	3:00:00 AM	3
4	4:00:00 AM	3
5	5:00:00 AM	2
6	6:00:00 AM	0
7	7:00:00 AM	0
8	8:00:00 AM	1
9	9:00:00 AM	1
10	10:00:00 AM	1
11	11:00:00 AM	0
12	12:00:00 PM	2
13	1:00:00 PM	1
14	2:00:00 PM	1
15	3:00:00 PM	0
16	4:00:00 PM	1
17	5:00:00 PM	3
18	6:00:00 PM	4
19	7:00:00 PM	1
20	8:00:00 PM	5
21	9:00:00 PM	10
22	10:00:00 PM	3
23	11:00:00 PM	7

71



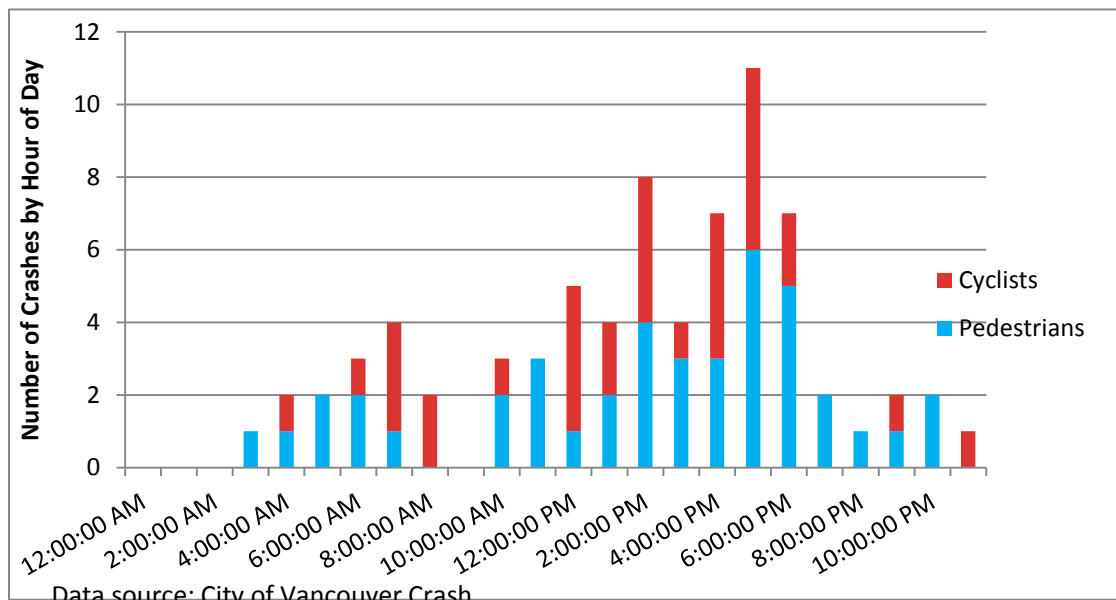
Truck-Related Crashes		
No	TOD	TOD Count
0	12:00:00 AM	1
1	1:00:00 AM	0
2	2:00:00 AM	0
3	3:00:00 AM	0
4	4:00:00 AM	0
5	5:00:00 AM	1
6	6:00:00 AM	2
7	7:00:00 AM	0
8	8:00:00 AM	4
9	9:00:00 AM	2
10	10:00:00 AM	1
11	11:00:00 AM	2
12	12:00:00 PM	1
13	1:00:00 PM	1
14	2:00:00 PM	1
15	3:00:00 PM	1
16	4:00:00 PM	1
17	5:00:00 PM	1
18	6:00:00 PM	1
19	7:00:00 PM	0
20	8:00:00 PM	1
21	9:00:00 PM	0
22	10:00:00 PM	0
23	11:00:00 PM	0

21



5.3 Bicyclist and Pedestrian Crashes by Time of Day

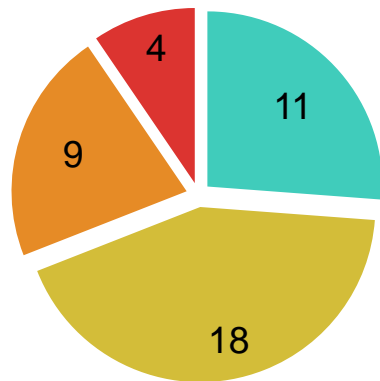
	Time of Day Count		Total Crashes
	Pedestrians	Cyclists	
12:00:00 AM	0	0	0
1:00:00 AM	0	0	0
2:00:00 AM	0	0	0
3:00:00 AM	1	0	1
4:00:00 AM	1	1	2
5:00:00 AM	2	0	2
6:00:00 AM	2	1	3
7:00:00 AM	1	3	4
8:00:00 AM	0	2	2
9:00:00 AM	0	0	0
10:00:00 AM	2	1	3
11:00:00 AM	3	0	3
12:00:00 PM	1	4	5
1:00:00 PM	2	2	4
2:00:00 PM	4	4	8
3:00:00 PM	3	1	4
4:00:00 PM	3	4	7
5:00:00 PM	6	5	11
6:00:00 PM	5	2	7
7:00:00 PM	2	0	2
8:00:00 PM	1	0	1
9:00:00 PM	1	1	2
10:00:00 PM	2	0	2
11:00:00 PM	0	1	1



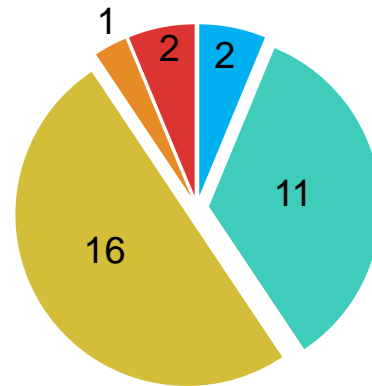
	Pedestrian Crashes	Cyclist Crashes
Total Crashes	42	32
Total No. Affected	44	33

	Pedestrian Crashes	Cyclist Crashes	Total	Vehicle-Only Crashes
No Injury	0	2	2	515
Possible Injury	11	11	22	185
Evident Injury	18	16	34	63
Serious Injury	9	1	10	21
Fatality	4	2	6	2
Total	42	30	72	786

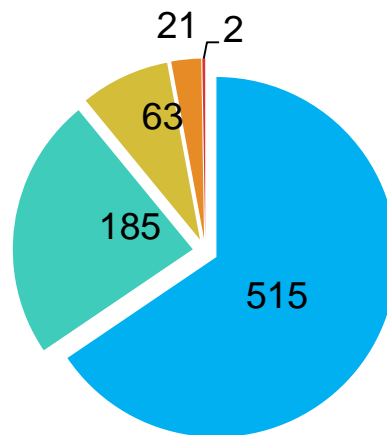
Pedestrian Crashes



Bicycle Crashes



Vehicle-Only Crashes



■ No Injury
 ■ Possible Injury
 ■ Evident Injury
 ■ Serious Injury
 ■ Fatality

6 Future Growth Projections

In creating long-range forecasts, RTC adheres to a “control total” of expected county-wide household growth while logically allocating that growth across hundreds of county TAZs. Key inputs typically include historical growth patterns, supplies of developable land, known planned projects, and local policy inputs. Whatever the methodology, RTC has projected significant growth in a handful of waterfront TAZs but also widespread (although small-scale) household losses across most of Vancouver. These household losses appear unrelated to historical trends and are inconsistent with ESRI and state demographer projections.

If additional refinement is desired, possible next steps are more complex than for employment and involve more TAZs. As an interim solution for the study area, LCG suggests adopting a “floor” rate of household growth that no TAZ would be allowed to drop below. A rate of 0.8 percent annually would represent a conservative floor, equal to ESRI’s projected rate for the westside between 16th and 39th Streets (the lowest growth rate projected for any of the westside residential areas).

The following maps illustrate 2035 link volumes taken from the RTC travel demand model.

Household Growth Projection Comparisons

Households	Downtown Vancouver	West Vancouver 16th to 39th	West Vancouver 39th to 78th	Vancouver City
2000	737	3,406	3,536	56,964
2010	1,228	3,693	3,615	65,691
2014 estimate	1,286	3,764	3,745	67,675
2019 (ESRI projection)	1,372	3,922	3,957	71,219
2014–2019 annual rate	1.30%	0.83%	1.11%	1.03%