


**MEMORANDUM**

To: Kevin Nielsen  
Title: Marysville Public Works Director  
From: Edward Koltonowski   
Subject: Cherry Point Coal Export Facility Rail Operations; GTC #11-036  
Date: June 15, 2011

This memorandum is to identify some of the possible Rail Impacts associated with transport of coal to the proposed Cherry Point Facility on the City of Marysville WA. We understand a terminal capable of exporting 54 million tons of coal per year is proposed north of Bellingham.

GTC understands that the probable route of the coal delivery trains for Cherry Point would be from Wyoming/Montana, through Spokane, along the Columbia River and then up from the south from Seattle north to Bellingham and then to Cherry Point, along the Burlington Northern Santa Fe mainline. The route follows the rail tracks that run north south directly through the heart of the business district of the City of Marysville Washington. According to the applicant's *Project Information Document* (Feb. 2011), full buildout of the coal export facility would result in 9 full northbound trains along this line a day, which equates to 18 train trips a day, however, nothing in the project materials specifies a maximum. The 18 trains per day round trip could be increased if export capacity of the proposed port were expanded in the future. Each train may be over 1.5 miles long, which at 30 miles per hour would mean approximately 6-7 minutes between train approach warning/gate closure and ultimate gate opening or at 5 miles per hour could take approximately 14-18 minutes to clear a crossing. The 18 trains per day would equate to approximately one additional coal train every 1.3 hours, all day long, in addition to existing train traffic.

The BNSF rail way tracks bisect all of the major arterial roads that connect the City business and residential areas with I-5. Preliminary review indicated that the additional trains from the Cherry Point operations would have a significant impact on the commercial district and quality of life for the City of Marysville. We have the following comments based on preliminary research:

1. The City is finalizing its downtown vision plan. A downtown bisected by 16-18 coal train trips per day rumbling through its "green downtown" for several hours a day is not part of that vision.
2. The City's downtown access plan has identified major east west improvement needs (i.e. additional lanes on SR-528) under the I-5 structure and an extension east of 1<sup>st</sup> Street alternative corridor south of the mall. Both these future critical links have at-grade crossing that the traffic modeling by HDR shows are significantly impacted by the train movements. This would result in their 1<sup>st</sup> Street and I-5/SR-528 improvements would be negated when a train crosses in the peak hour.
3. Due to speed restriction approach warning, trains through Marysville downtown means the barriers are down for approximately 6-8 minutes (over 400 seconds) for the larger (over one mile long) freight trains. This is the equivalent of 3-4 continuous red lights cycles in a row for a normal signal on 4<sup>th</sup> Street. The Institute of Traffic Engineers identifies an average delay of over 80 seconds as level of service F - the city's standard for normal roadway operation is LOS D i.e. allowing only 60 seconds as the worst delay for normal conditions.
4. With the increase in number of long coal trains, the nightmare scenario for the city is having all its I-5 entrances blocked at the same time, i.e. SR-528, 88<sup>th</sup> and 116<sup>th</sup>. The recent capacity improvement on 116<sup>th</sup> Street completed by the city would be negated by the increased coal train activity.

5. Marysville is one of the largest cities with the highest traffic volume j that does not have at least one grade-separated crossing for its major access. For example look at Everett to the south; it's last major at grade rail crossing (Pacific Avenue) was grade separated over a decade ago and it carries less traffic than SR-528 or 88<sup>th</sup> Street.
6. A single long train will close the gates from 1<sup>st</sup> North to 88<sup>th</sup> Street at the same time the rail crossing between 88<sup>th</sup> Street and 1<sup>st</sup> Street carry approximately 7,000 PM peak hour trips or over 80,000 daily trips. The rail crossing to the north at 116<sup>th</sup> Street also carries approximately 20,000 daily trips. The addition of just 16 train trips will block the Marysville main lifeline to I-5 for an additional 2-3 hours a day.
7. Within the last 5 years there have been approximately 30 accidents at rail crossings in the City of Marysville, nearly half involving the actual rail gates and one with a vehicle struck by a train in December 2008 causing serous injury to two people at the 88<sup>th</sup> Street crossing. The remainder was mainly rear ends of vehicles stopping for the gate closures (based on the State's accident data base).
8. Already today the presence of a long freight train during the peak hours creates back ups from the I-5 ramps onto the mainline. The Puget Sound Regional Council (PSRC), the City of Marysville and Tulalip Tribes have identified capacity improvement needs at both the 88<sup>th</sup> Street and 116<sup>th</sup> Street interchanges due to existing congestion at these ramps. WSDOT over the last few years has already maximized the queuing capacity of the ramps through deviations to standards to restripe shoulders to accommodate the queuing created when trains block access from I-5 to the City. Adding 18 trains per day to existing levels will likely exacerbate this problem by a significant factor. Any environmental review of rail line impacts should study this current condition and likely increased impact, including costs to mitigate the effects.
9. The City of Marysville, John McCoy (State Representative), and Tulalip Tribes have long envisioned a passenger train station on the Marysville line (Policy Point T-9c.1 of the Marysville Adopted Transportation Element). The increased coal train activity hampers that plan.
10. The Cherry Point applicant argues that the coal train activity will only bring train activity back up to the level it was before the economic crash, and therefore there is no impact. This is misleading because as soon as the economic recovery really starts to take hold, those previous train activities will also pick up, as well vehicular traffic on the roads. At that point, even greater impacts will begin.
11. Train delays at crossings are often eliminated by constructing grade separation, which allows traffic to pass over or under railroad tracks. The City's transportation element Policy T-1E.6 identifies a priority in needing to minimize the number of at grade-crossings. While grade separation is desired in the City plan, these improvements are typically multi-million dollar solutions and funding is not yet planned.

This analysis of possible rail line impacts associated with the increase of 18 trains per day serving the Cherry Point Coal export facility is preliminary and is intended to illustrate some of the potential problems and areas deserving detailed study during the SEPA review for the facility. This preliminary analysis suggests potentially severe consequences for the City's transportation plan and improvements, with increases in risk of accidents.

CC: Jon Nehring, Mayor  
Gloria Hirashima, City of Marysville

# **Rail Crossing Inventory**

Cross Stree RR MP	DOT #	Permit No	Use	Signal W/Ir PreSignal
1st	38.48 084630B		Public at Grade	
4th	38.68 084640G		Public at Grade	YES
8th	38.95 084644J		Public at Grade	
Grove	39.32 084646X		Public at Grade	
80th	39.8 084647E		Public at Grade	YES
Private	40.02 084648L		Residential	
Private	40.11 084649T		Residential	
88th	40.34 084650M		Public at Grade	YES YES
Private (92	40.6 084651U		Residential	
Private	40.8 084652B	CX93-16124	Residential	
104th	41.2 084653H		Public at Grade	
116th	42.04 084654P		Public at Grade	YES YES
122nd	42.45 084657K		Public at Grade	
124th (Priv	42.55 084658S		Industrial	
128th (Priv	42.82 084660T		Industrial	YES YES
Private	43.1 084661A		Industrial	
136th	43.35 084664V		Public at Grade	YES
Private	45.5 084668X		Farm	
172nd	45.9 084669E		Public at Grade	
Smoky Poir	0.16 092077P		Public at Grade	
128th	0.63 092080X		Public at Grade	
136th	1.23 092081L		Public at Grade	
152nd	1.36 092083T		Public at Grade	
51st	1.8 092082L		Public at Grade	

**U.S. DOT - CROSSING INVENTORY INFORMATION**  
**AS OF 6/20/2011**

Crossing No.: **084630B**      Update Reason: **Changed Crossing**      Effective Begin-Date of Record: **02/26/07**  
Railroad: **BNSF BNSF Rwy Co. [BNSF]**      End-Date of Record:  
Initiating Agency **Railroad**      Type and Position: **Public At Grade**

**Part I Location and Classification of Crossing**

Division:	<b>NORTHWEST</b>	State:	<b>WA</b>
Subdivision:	<b>BELLINGHAM</b>	County:	<b>SNOHOMISH</b>
Branch or Line Name:	<b>PA J-US CAN BDR</b>	City:	<b>Near MARYSVILLE</b>
Railroad Milepost:	<b>0038.49</b>	Street or Road Name:	<b>1ST ST</b>
RailRoad I.D. No.:	<b>0050</b>	Highway Type & No.:	<b>FAM2692</b>
Nearest RR Timetable Stn:	<b>MARYSVILLE</b>	HSR Corridor ID:	
Parent Railroad:		County Map Ref. No.:	<b>31 3C</b>
Crossing Owner:		Latitude:	<b>48.0490984</b>
ENS Sign Installed:		Longitude:	<b>-122.1804926</b>
Passenger Service:	<b>AMTRAK</b>	Lat/Long Source:	<b>Actual</b>
Avg Passenger Train Count:	<b>1</b>	Quiet Zone:	<b>No</b>
Adjacent Crossing with Separate Number:			

Private Crossing Information:

Category:      Public Access:  
Specify Signs:      Specify Signals:

	ST/RR A	ST/RR B	ST/RR C	ST/RR D
Railroad Use:				
State Use:				
Narrative:				

Emergency Contact: **(800)832-5452**      Railroad Contact: **(913)551-4540**      State Contact: **(360)664-1262**

**Part II Railroad Information**

Number of Daily Train Movements:		Less Than One Movement Per Day:	<b>No</b>
Total Trains: <b>19</b>	Total Switching: <b>0</b>	Day Thru:	<b>10</b>
Typical Speed Range Over Crossing: From <b>1</b> to <b>30</b> mph		Maximum Time Table Speed:	<b>30</b>
Type and Number of Tracks: Main: <b>1</b> Other <b>0</b>		Specify:	
Does Another RR Operate a Separate Track at Crossing?		<b>No</b>	
Does Another RR Operate Over Your Track at Crossing?		<b>Yes: ATK</b>	

# U.S. DOT - CROSSING INVENTORY INFORMATION

Crossing **084630B**

Continued

Effective Begin-Date of Record: **02/26/07**

End-Date of Record:

## Part III: Traffic Control Device Information

### Signs:

Crossbucks: **2**  
Advanced Warning: **Yes**  
Pavement Markings: **No Markings**

Highway Stop Signs: **2**  
Hump Crossing Sign:  
Other Signs: **0** Specify:  
**0**

### Train Activated Devices:

Gates: **2**  
Mast Mounted FL: **0**  
Cantilevered FL (Over): **2**  
Other Flashing Lights: **0**  
Highway Traffic Signals: **0**  
Other Train Activated  
Warning Devices:  
Channelization:  
Track Equipped with **Yes**  
Train Signals?

4 Quad or Full Barrier:  
Total Number FL Pairs: **4**  
Cantilevered FL (Not over): **0**  
Specify Other Flashing Lights:  
Wigwags: **0** Bells: **1**  
Special Warning Devices Not  
Train Activated:  
Type of Train Detection: **Constant Warning Time**  
Traffic Light  
Interconnection/Preemption:

## Part IV: Physical Characteristics

Type of Development: **Commercial**  
Number of Traffic Lanes **2**  
Crossing Railroad:  
Is Highway Paved? **Yes**  
Crossing Surface: **Asphalt**  
Nearby Intersecting  
Highway? **Less than 75 feet**  
Does Track Run Down a  
Street? **No**  
Is Commercial Power Available? **Yes**

Smallest Crossing Angle: **60 to 90 Degrees**  
Are Truck Pullout Lanes Present? **No**  
If Other:  
Is it Signalized?  
Is Crossing Illuminated?

## Part V: Highway Information

Highway System: **Other FA Highway - Not NHS** Functional Classification of  
Road at Crossing: **Urban Collector**  
Is Crossing on State  
Highway System: **No**  
Annual Average Daily  
Traffic (AADT): **002790** AADT Year: **1993**  
Estimated Percent Trucks: **11** Avg. No of School Buses per Day: **0**  
Posted Highway Speed: **0**

**U.S. DOT - CROSSING INVENTORY INFORMATION  
AS OF 6/20/2011**

Crossing No.: **084650M**      Update Reason: **Changed Crossing**      Effective Begin-Date of Record: **08/17/06**  
Railroad: **BNSF BNSF Rwy Co. [BNSF]**      End-Date of Record:  
Initiating Agency **Railroad**      Type and Position: **Public At Grade**

**Part I Location and Classification of Crossing**

Division:	<b>NORTHWEST</b>	State:	<b>WA</b>
Subdivision:	<b>BELLINGHAM</b>	County:	<b>SNOHOMISH</b>
Branch or Line Name:	<b>PA J-US CAN BDR</b>	City:	<b>In MARYSVILLE</b>
Railroad Milepost:	<b>0040.34</b>	Street or Road Name:	<b>88TH ST.N.E.</b>
RailRoad I.D. No.:	<b>0050</b>	Highway Type & No.:	<b>CO67240</b>
Nearest RR Timetable Stn:	<b>MARYSVILLE</b>	HSR Corridor ID:	
Parent Railroad:		County Map Ref. No.:	<b>31-3A</b>
Crossing Owner:		Latitude:	<b>48.0755967</b>
ENS Sign Installed:		Longitude:	<b>-122.1763071</b>
Passenger Service:	<b>AMTRAK</b>	Lat/Long Source:	<b>Actual</b>
Avg Passenger Train Count:	<b>1</b>	Quiet Zone:	<b>No</b>
Adjacent Crossing with Separate Number:			

Private Crossing Information:

Category:

Specify Signs:

Public Access:

Specify Signals:

ST/RR A

ST/RR B

ST/RR C

ST/RR D

Railroad Use:

State Use:

Narrative:

Emergency Contact: **(800)832-5452**      Railroad Contact: **(913)551-4540**      State Contact: **(360)664-1262**

**Part II Railroad Information**

Number of Daily Train Movements:		Less Than One Movement Per Day:	<b>No</b>
Total Trains:	<b>19</b>	Total Switching:	<b>0</b>
Typical Speed Range Over Crossing: From	<b>1</b>	Day Thru:	<b>10</b>
	to <b>50</b> mph	Maximum Time Table Speed:	<b>50</b>
Type and Number of Tracks:	Main: <b>1</b>	Other: <b>0</b>	Specify:
Does Another RR Operate a Separate Track at Crossing?			<b>No</b>
Does Another RR Operate Over Your Track at Crossing?			<b>Yes: ATK</b>

# U.S. DOT - CROSSING INVENTORY INFORMATION

Crossing **084650M**

Continued

Effective Begin-Date of Record: **08/17/06**

End-Date of Record:

## Part III: Traffic Control Device Information

### Signs:

Crossbucks:	<b>0</b>	Highway Stop Signs:	<b>0</b>
Advanced Warning:	<b>Yes</b>	Hump Crossing Sign:	
Pavement Markings:	<b>Stop Lines and RR Xing Symbols</b>	Other Signs:	<b>0</b> Specify:
			<b>0</b>

### Train Activated Devices:

Gates:	<b>2</b>	4 Quad or Full Barrier:	
Mast Mounted FL:	<b>2</b>	Total Number FL Pairs:	<b>0</b>
Cantilevered FL (Over):	<b>0</b>	Cantilevered FL (Not over):	<b>0</b>
Other Flashing Lights:	<b>0</b>	Specify Other Flashing Lights:	
Highway Traffic Signals:	<b>0</b>	Wigwags:	<b>0</b> Bells: <b>1</b>
Other Train Activated Warning Devices:		Special Warning Devices Not Train Activated:	
Channelization:		Type of Train Detection:	<b>Constant Warning Time</b>
Track Equipped with Train Signals?	<b>Yes</b>	Traffic Light Interconnection/Preemption:	<b>Simultaneous Preemption</b>

## Part IV: Physical Characteristics

Type of Development:	<b>Residential</b>	Smallest Crossing Angle:	<b>60 to 90 Degrees</b>
Number of Traffic Lanes Crossing Railroad:	<b>3</b>	Are Truck Pullout Lanes Present?	<b>No</b>
Is Highway Paved?	<b>Yes</b>	If Other:	
Crossing Surface:	<b>Asphalt</b>	Is it Signalized?	
Nearby Intersecting Highway?	<b>Less than 75 feet</b>	Is Crossing Illuminated?	
Does Track Run Down a Street?	<b>No</b>		
Is Commercial Power Available?	<b>Yes</b>		

## Part V: Highway Information

Highway System:	<b>Non-Federal-aid</b>	Functional Classification of Road at Crossing:	<b>Rural Local</b>
Is Crossing on State Highway System:	<b>No</b>	AADT Year:	<b>1993</b>
Annual Average Daily Traffic (AADT):	<b>002122</b>	Avg. No of School Buses per Day:	<b>0</b>
Estimated Percent Trucks:	<b>06</b>		
Posted Highway Speed:	<b>0</b>		

**U.S. DOT - CROSSING INVENTORY INFORMATION**  
**AS OF 6/20/2011**

Crossing No.: **084654P** Update Reason: **Changed Crossing** Effective Begin-Date of Record: **08/17/06**  
Railroad: **BNSF BNSF Rwy Co. [BNSF]** End-Date of Record:  
Initiating Agency **Railroad** Type and Position: **Public At Grade**

**Part I Location and Classification of Crossing**

Division:	<b>NORTHWEST</b>	State:	<b>WA</b>
Subdivision:	<b>BELLINGHAM</b>	County:	<b>SNOHOMISH</b>
Branch or Line Name:	<b>PA J-US CAN BDR</b>	City:	<b>Near MARYSVILLE</b>
Railroad Milepost:	<b>0042.04</b>	Street or Road Name:	<b>116TH ST. N.E.</b>
RailRoad I.D. No.:	<b>0050</b>	Highway Type & No.:	<b>CO68400</b>
Nearest RR Timetable Stn:	<b>KRUSE JCT</b>	HSR Corridor ID:	
Parent Railroad:		County Map Ref. No.:	<b>31-3A</b>
Crossing Owner:		Latitude:	<b>48.0999926</b>
ENS Sign Installed:		Longitude:	<b>-122.1755875</b>
Passenger Service:	<b>AMTRAK</b>	Lat/Long Source:	<b>Actual</b>
Avg Passenger Train Count:	<b>1</b>	Quiet Zone:	<b>No</b>
Adjacent Crossing with Separate Number:			

Private Crossing Information:

Category:

Specify Signs:

Public Access:

Specify Signals:

ST/RR A

ST/RR B

ST/RR C

ST/RR D

Railroad Use:

State Use:

Narrative:

Emergency Contact: **(800)832-5452** Railroad Contact: **(913)551-4540** State Contact: **(360)664-1262**

**Part II Railroad Information**

Number of Daily Train Movements:		Less Than One Movement Per Day:	<b>No</b>
Total Trains:	<b>19</b>	Total Switching:	<b>0</b>
Typical Speed Range Over Crossing: From	<b>1</b>	Day Thru:	<b>10</b>
	to <b>79</b> mph	Maximum Time Table Speed:	<b>79</b>
Type and Number of Tracks:	Main: <b>1</b>	Specify:	
	Other <b>0</b>		
Does Another RR Operate a Separate Track at Crossing?			<b>No</b>
Does Another RR Operate Over Your Track at Crossing?			<b>Yes: ATK</b>

# U.S. DOT - CROSSING INVENTORY INFORMATION

Crossing **084654P**

Continued

Effective Begin-Date of Record: **08/17/06**

End-Date of Record:

## Part III: Traffic Control Device Information

### Signs:

Crossbucks:	<b>2</b>	Highway Stop Signs:	<b>0</b>
Advanced Warning:	<b>Yes</b>	Hump Crossing Sign:	
Pavement Markings:	<b>No Markings</b>	Other Signs:	<b>0</b> Specify:
			<b>0</b>

### Train Activated Devices:

Gates:	<b>2</b>	4 Quad or Full Barrier:	
Mast Mounted FL:	<b>2</b>	Total Number FL Pairs:	<b>0</b>
Cantilevered FL (Over):	<b>2</b>	Cantilevered FL (Not over):	<b>0</b>
Other Flashing Lights:	<b>0</b>	Specify Other Flashing Lights:	
Highway Traffic Signals:	<b>0</b>	Wigwags:	<b>0</b> Bells: <b>1</b>
Other Train Activated Warning Devices:		Special Warning Devices Not Train Activated:	
Channelization:		Type of Train Detection:	<b>DC/AFO</b>
Track Equipped with Train Signals?	<b>Yes</b>	Traffic Light Interconnection/Preemption:	<b>Simultaneous Preemption</b>

## Part IV: Physical Characteristics

Type of Development:	<b>Residential</b>	Smallest Crossing Angle:	<b>60 to 90 Degrees</b>
Number of Traffic Lanes Crossing Railroad:	<b>1</b>	Are Truck Pullout Lanes Present?	<b>No</b>
Is Highway Paved?	<b>Yes</b>	If Other:	
Crossing Surface:	<b>Rubber</b>	Is It Signalized?	
Nearby Intersecting Highway?	<b>Less than 75 feet</b>	Is Crossing Illuminated?	
Does Track Run Down a Street?	<b>No</b>		
Is Commercial Power Available?	<b>Yes</b>		

## Part V: Highway Information

Highway System:	<b>Non-Federal-aid</b>	Functional Classification of Road at Crossing:	<b>Rural Local</b>
Is Crossing on State Highway System:	<b>No</b>	AADT Year:	<b>1993</b>
Annual Average Daily Traffic (AADT):	<b>012880</b>	Avg. No of School Buses per Day:	<b>0</b>
Estimated Percent Trucks:	<b>03</b>		
Posted Highway Speed:	<b>0</b>		

**U.S. DOT - CROSSING INVENTORY INFORMATION**  
**AS OF 6/20/2011**

Crossing No.: **084640G**      Update Reason: **Changed Crossing**      Effective Begin-Date of Record: **02/26/07**  
Railroad: **BNSF BNSF Rwy Co. [BNSF]**      End-Date of Record:  
Initiating Agency **Railroad**      Type and Position: **Public At Grade**

**Part I Location and Classification of Crossing**

Division:	<b>NORTHWEST</b>	State:	<b>WA</b>
Subdivision:	<b>BELLINGHAM</b>	County:	<b>SNOHOMISH</b>
Branch or Line Name:	<b>PA J-US CAN BDR</b>	City:	<b>In MARYSVILLE</b>
Railroad Milepost:	<b>0038.68</b>	Street or Road Name:	<b>SR 528 (4TH ST)</b>
RailRoad I.D. No.:	<b>0050</b>	Highway Type & No.:	<b>SR 528</b>
Nearest RR Timetable Stn:	<b>MARYSVILLE</b>	HSR Corridor ID:	
Parent Railroad:		County Map Ref. No.:	<b>31-3C</b>
Crossing Owner:		Latitude:	<b>48.0518478</b>
ENS Sign Installed:		Longitude:	<b>-122.1800427</b>
Passenger Service:	<b>AMTRAK</b>	Lat/Long Source:	<b>Actual</b>
Avg Passenger Train Count:	<b>1</b>	Quiet Zone:	<b>No</b>
Adjacent Crossing with Separate Number:			

Private Crossing Information:

Category:

Specify Signs:

Public Access:

Specify Signals:

ST/RR A

ST/RR B

ST/RR C

ST/RR D

Railroad Use:

State Use:

Narrative:

Emergency Contact: **(800)832-5452**      Railroad Contact: **(913)551-4540**      State Contact: **(360)664-1262**

**Part II Railroad Information**

Number of Daily Train Movements:		Less Than One Movement Per Day:	<b>No</b>
Total Trains:	<b>19</b>	Total Switching:	<b>0</b>
Typical Speed Range Over Crossing: From	<b>1</b>	Day Thru:	<b>10</b>
	to <b>30</b> mph	Maximum Time Table Speed:	<b>30</b>
Type and Number of Tracks:	Main: <b>1</b>	Specify:	
	Other <b>0</b>		
Does Another RR Operate a Separate Track at Crossing?			<b>No</b>
Does Another RR Operate Over Your Track at Crossing?			<b>Yes: ATK</b>

# U.S. DOT - CROSSING INVENTORY INFORMATION

Crossing **084640G**

Continued

Effective Begin-Date of Record: **02/26/07**

End-Date of Record:

## Part III: Traffic Control Device Information

### Signs:

Crossbucks:	<b>2</b>	Highway Stop Signs:	<b>0</b>
Advanced Warning:	<b>Yes</b>	Hump Crossing Sign:	
Pavement Markings:	<b>No Markings</b>	Other Signs:	<b>0</b> Specify:
			<b>0</b>

### Train Activated Devices:

Gates:	<b>2</b>	4 Quad or Full Barrier:	
Mast Mounted FL:	<b>0</b>	Total Number FL Pairs:	<b>4</b>
Cantilevered FL (Over):	<b>2</b>	Cantilevered FL (Not over):	<b>0</b>
Other Flashing Lights:	<b>0</b>	Specify Other Flashing Lights:	
Highway Traffic Signals:	<b>0</b>	Wigwags:	<b>0</b> Bells: <b>1</b>
Other Train Activated Warning Devices:		Special Warning Devices Not Train Activated:	
Channelization:		Type of Train Detection:	<b>Constant Warning Time</b>
Track Equipped with Train Signals?	<b>Yes</b>	Traffic Light Interconnection/Preemption:	<b>Simultaneous Preemption</b>

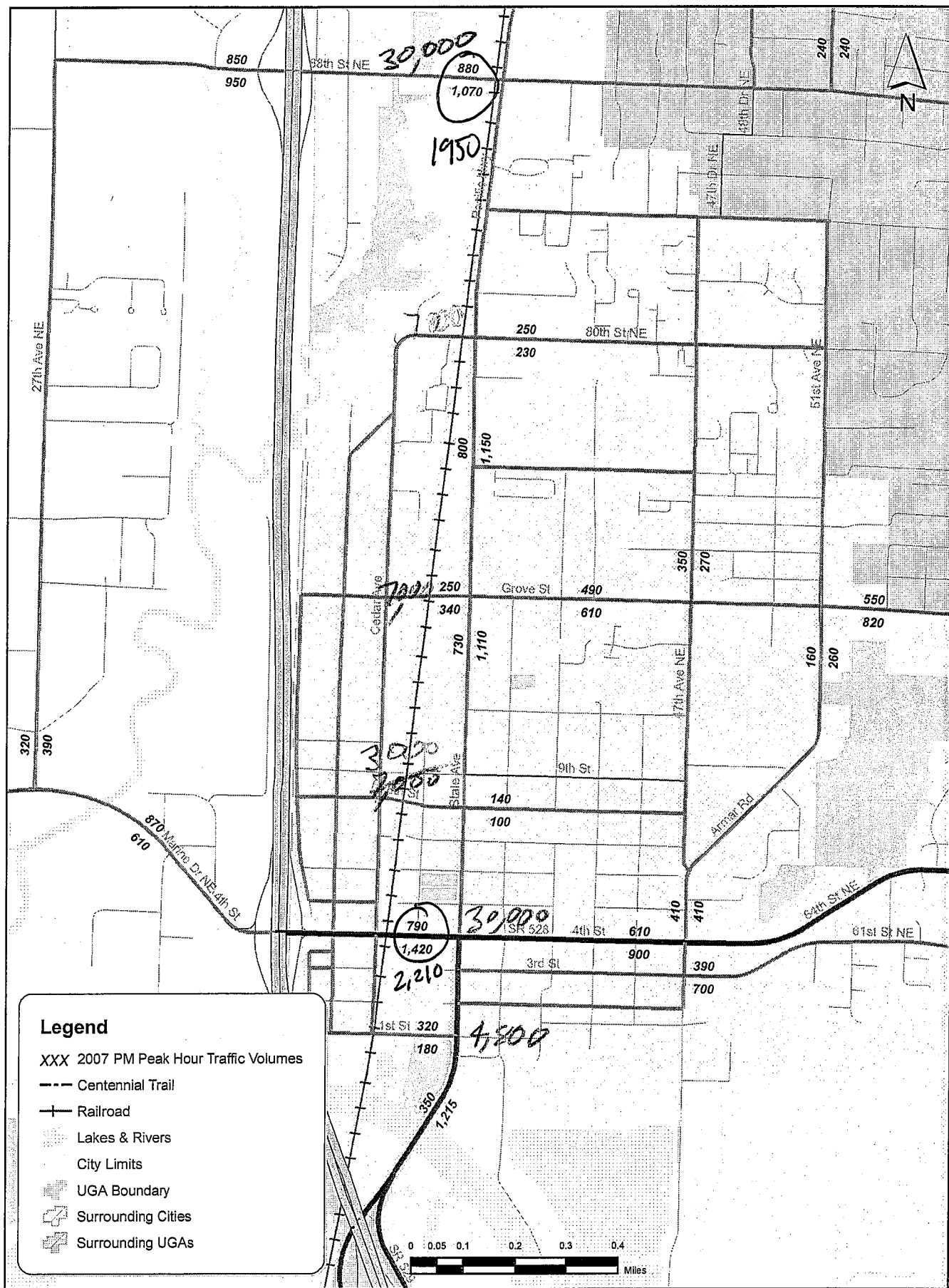
## Part IV: Physical Characteristics

Type of Development:	<b>Commercial</b>	Smallest Crossing Angle:	<b>60 to 90 Degrees</b>
Number of Traffic Lanes Crossing Railroad:	<b>4</b>	Are Truck Pullout Lanes Present?	<b>No</b>
Is Highway Paved?	<b>Yes</b>		
Crossing Surface:	<b>Rubber</b>	If Other:	
Nearby Intersecting Highway?	<b>Less than 75 feet</b>	Is It Signalized?	
Does Track Run Down a Street?	<b>No</b>	Is Crossing Illuminated?	
Is Commercial Power Available?	<b>Yes</b>		

## Part V: Highway Information

Highway System:	<b>Other FA Highway - Not NHS</b>	Functional Classification of Road at Crossing:	<b>Urban Other Principal</b>
Is Crossing on State Highway System:	<b>Yes</b>		
Annual Average Daily Traffic (AADT):	<b>023550</b>	AADT Year:	<b>1993</b>
Estimated Percent Trucks:	<b>08</b>	Avg. No of School Buses per Day:	<b>0</b>
Posted Highway Speed:	<b>0</b>		

## **Counts at Crossings**

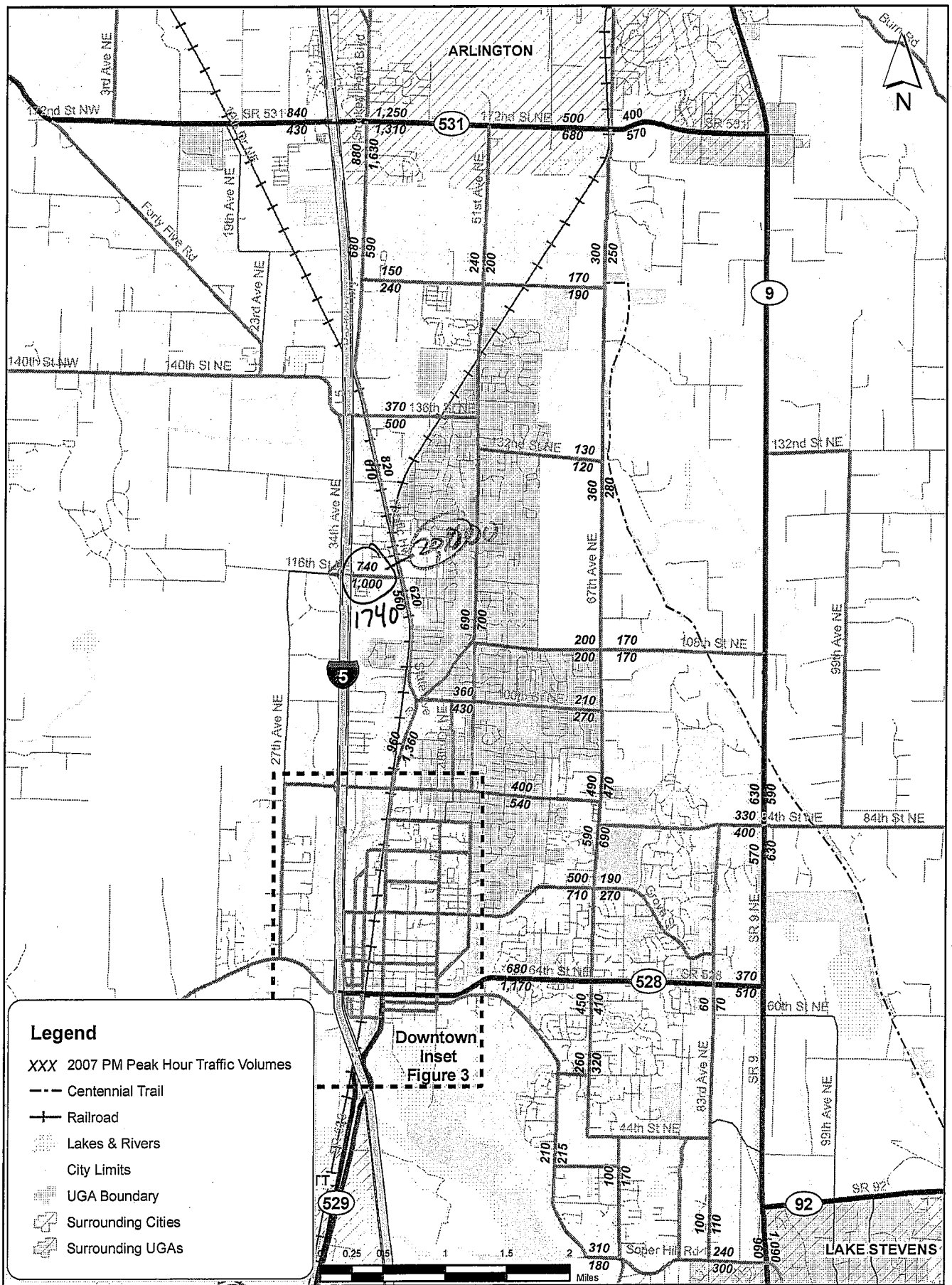


**Figure 3**

2007 PM Peak Hour Directional Traffic Volumes - Downtown Area

City of Marysville Transportation Element 2008

706948 05301



**Figure 2**  
2007 PM Peak Hour Directional Traffic Volumes



Snohomish County Traffic Operations  
3000 Rockefeller Admin 5-W  
Everett WA 98201

LOCATION: 88 ST NE WB E/O 36 AVE NE  
WEATHER: 3 MIXED  
CLIENT: INT

Site: MARYSVILLE  
Date: 10/5/2010  
Tuesday

Daily Volume, per Channel

Channel: W/B

Interval Begin			Interval Begin		
12:00 AM	20	68	12:00 PM	212	954
12:15 AM	22		12:15 PM	231	
12:30 AM	12		12:30 PM	252	
12:45 AM	14		12:45 PM	259	
1:00 AM	7	43	1:00 PM	223	963
1:15 AM	15		1:15 PM	251	
1:30 AM	10		1:30 PM	237	
1:45 AM	11		1:45 PM	252	
2:00 AM	12	68	2:00 PM	224	943
2:15 AM	19		2:15 PM	231	
2:30 AM	14		2:30 PM	236	
2:45 AM	23		2:45 PM	252	
3:00 AM	19	108	3:00 PM	219	869
3:15 AM	24		3:15 PM	198	
3:30 AM	29		3:30 PM	217	
3:45 AM	36		3:45 PM	235	
4:00 AM	43	339	4:00 PM	239	927
4:15 AM	76		4:15 PM	244	
4:30 AM	108		4:30 PM	236	
4:45 AM	112		4:45 PM	208	
5:00 AM	125	633	5:00 PM	237	999
5:15 AM	176		5:15 PM	266	
5:30 AM	175		5:30 PM	244	
5:45 AM	157		5:45 PM	252	
6:00 AM	219	898	6:00 PM	249	868
6:15 AM	215		6:15 PM	218	
6:30 AM	231		6:30 PM	195	
6:45 AM	233		6:45 PM	206	
7:00 AM	236	1074	7:00 PM	190	622
7:15 AM	271		7:15 PM	175	
7:30 AM	303		7:30 PM	146	
7:45 AM	264		7:45 PM	111	
8:00 AM	233	863	8:00 PM	108	441
8:15 AM	220		8:15 PM	137	
8:30 AM	176		8:30 PM	121	
8:45 AM	234		8:45 PM	75	
9:00 AM	230	864	9:00 PM	109	364
9:15 AM	209		9:15 PM	95	
9:30 AM	245		9:30 PM	92	
9:45 AM	180		9:45 PM	68	
10:00 AM	206	851	10:00 PM	56	203
10:15 AM	220		10:15 PM	59	
10:30 AM	227		10:30 PM	39	
10:45 AM	198		10:45 PM	49	
11:00 AM	184	897	11:00 PM	27	105
11:15 AM	229		11:15 PM	27	
11:30 AM	239		11:30 PM	26	
11:45 AM	245		11:45 PM	25	

W/B  
14964

**24 Hour Volume**

**12:00 AM - 12:00 PM**

	<u>W/B</u>
Count	6706
<b>Peak Hour</b>	7:00 AM
Volume	1074
Factor	0.89

**12:00 PM - 12:00 AM**

	<u>W/B</u>
	8258
	5:15 PM
	1011
	0.95

Snohomish County Traffic Operations  
3000 Rockefeller Admin 5-W  
Everett WA 98201

LOCATION: 88 ST NE WB E/O 36 AVE NE  
WEATHER: 3 MIXED  
CLIENT: INT

Site: MARYSVILLE  
Date: 10/6/2010  
Wednesday

Daily Volume, per Channel  
Channel: W/B

Interval Begin			Interval Begin		
12:00 AM	32	71	12:00 PM	209	865
12:15 AM	18		12:15 PM	204	
12:30 AM	10		12:30 PM	201	
12:45 AM	11		12:45 PM	251	
1:00 AM	15	61	1:00 PM	233	971
1:15 AM	20		1:15 PM	259	
1:30 AM	13		1:30 PM	243	
1:45 AM	13		1:45 PM	236	
2:00 AM	14	73	2:00 PM	214	897
2:15 AM	21		2:15 PM	236	
2:30 AM	14		2:30 PM	209	
2:45 AM	24		2:45 PM	238	
3:00 AM	12	94	3:00 PM	223	884
3:15 AM	24		3:15 PM	214	
3:30 AM	32		3:30 PM	226	
3:45 AM	26		3:45 PM	221	
4:00 AM	39	335	4:00 PM	230	880
4:15 AM	72		4:15 PM	228	
4:30 AM	115		4:30 PM	190	
4:45 AM	109		4:45 PM	232	
5:00 AM	131	662	5:00 PM	249	959
5:15 AM	147		5:15 PM	235	
5:30 AM	193		5:30 PM	235	
5:45 AM	191		5:45 PM	240	
6:00 AM	209	888	6:00 PM	214	861
6:15 AM	208		6:15 PM	223	
6:30 AM	224		6:30 PM	243	
6:45 AM	247		6:45 PM	181	
7:00 AM	233	1089	7:00 PM	149	567
7:15 AM	285		7:15 PM	151	
7:30 AM	280		7:30 PM	144	
7:45 AM	291		7:45 PM	123	
8:00 AM	234	849	8:00 PM	122	471
8:15 AM	196		8:15 PM	109	
8:30 AM	223		8:30 PM	137	
8:45 AM	196		8:45 PM	103	
9:00 AM	212	883	9:00 PM	109	375
9:15 AM	238		9:15 PM	105	
9:30 AM	251		9:30 PM	91	
9:45 AM	182		9:45 PM	70	
10:00 AM	202	795	10:00 PM	61	176
10:15 AM	199		10:15 PM	48	
10:30 AM	199		10:30 PM	43	
10:45 AM	195		10:45 PM	24	
11:00 AM	210	923	11:00 PM	27	126
11:15 AM	249		11:15 PM	30	
11:30 AM	248		11:30 PM	42	
11:45 AM	216		11:45 PM	27	

W/B  
**24 Hour Volume** 14755

**12:00 AM - 12:00 PM**  
W/B  
Count 6723  
**Peak Hour** 7:15 AM  
Volume 1090  
Factor 0.94

**12:00 PM - 12:00 AM**  
W/B  
8032  
12:45 PM  
986  
0.95

Snohomish County Traffic Operations  
3000 Rockefeller Admin 5-W  
Everett WA 98201

LOCATION: 88 ST NE WB E/O 36 AVE NE  
WEATHER: 3 MIXED  
CLIENT: INT

Site: MARYSVILLE  
Date: 10/7/2010  
Thursday

Daily Volume, per Channel  
Channel: W/B

Interval Begin			Interval Begin		
12:00 AM	22	90	12:00 PM	222	932
12:15 AM	22		12:15 PM	233	
12:30 AM	24		12:30 PM	220	
12:45 AM	22		12:45 PM	257	
1:00 AM	11	68	1:00 PM	232	874
1:15 AM	15		1:15 PM	226	
1:30 AM	15		1:30 PM	234	
1:45 AM	27		1:45 PM	182	
2:00 AM	19	64	2:00 PM	201	935
2:15 AM	8		2:15 PM	255	
2:30 AM	20		2:30 PM	220	
2:45 AM	17		2:45 PM	259	
3:00 AM	22	115	3:00 PM	216	896
3:15 AM	23		3:15 PM	209	
3:30 AM	34		3:30 PM	232	
3:45 AM	36		3:45 PM	239	
4:00 AM	42	328	4:00 PM	226	928
4:15 AM	75		4:15 PM	214	
4:30 AM	110		4:30 PM	257	
4:45 AM	101		4:45 PM	231	
5:00 AM	135	668	5:00 PM	225	979
5:15 AM	152		5:15 PM	266	
5:30 AM	197		5:30 PM	267	
5:45 AM	184		5:45 PM	221	
6:00 AM	204	894	6:00 PM	250	830
6:15 AM	232		6:15 PM	203	
6:30 AM	233		6:30 PM	220	
6:45 AM	225		6:45 PM	157	
7:00 AM	251	1048	7:00 PM	187	601
7:15 AM	245		7:15 PM	152	
7:30 AM	282		7:30 PM	129	
7:45 AM	270		7:45 PM	133	
8:00 AM	195	845	8:00 PM	113	428
8:15 AM	222		8:15 PM	114	
8:30 AM	211		8:30 PM	90	
8:45 AM	217		8:45 PM	111	
9:00 AM	226	891	9:00 PM	124	403
9:15 AM	234		9:15 PM	104	
9:30 AM	231		9:30 PM	94	
9:45 AM	200		9:45 PM	81	
10:00 AM	198	833	10:00 PM	65	192
10:15 AM	186		10:15 PM	59	
10:30 AM	218		10:30 PM	39	
10:45 AM	231		10:45 PM	29	
11:00 AM	206	856	11:00 PM	36	137
11:15 AM	230		11:15 PM	37	
11:30 AM	196		11:30 PM	35	
11:45 AM	224		11:45 PM	29	

W/B  
**24 Hour Volume** 14835

**12:00 AM - 12:00 PM**  
W/B  
Count 6700  
**Peak Hour** 7:00 AM  
Volume 1048  
Factor 0.93

**12:00 PM - 12:00 AM**  
W/B  
8135  
5:15 PM  
1004  
0.94

Snohomish County Traffic Operations  
3000 Rockefeller Admin 5-W  
Everett WA 98201

LOCATION: 88 ST NE EB E/O 36 AVE NE  
WEATHER: 3 MIXED  
CLIENT: INT

Site: MARYSVILLE  
Date: 10/5/2010  
Tuesday

Daily Volume, per Channel  
Channel: E/B

Interval Begin			Interval Begin		
12:00 AM	45	142	12:00 PM	249	927
12:15 AM	47		12:15 PM	232	
12:30 AM	25		12:30 PM	243	
12:45 AM	25		12:45 PM	203	
1:00 AM	25	92	1:00 PM	266	998
1:15 AM	36		1:15 PM	220	
1:30 AM	14		1:30 PM	238	
1:45 AM	17		1:45 PM	274	
2:00 AM	21	84	2:00 PM	301	1221
2:15 AM	22		2:15 PM	301	
2:30 AM	19		2:30 PM	320	
2:45 AM	22		2:45 PM	299	
3:00 AM	17	49	3:00 PM	338	1368
3:15 AM	16		3:15 PM	355	
3:30 AM	8		3:30 PM	344	
3:45 AM	8		3:45 PM	331	
4:00 AM	14	68	4:00 PM	344	1478
4:15 AM	6		4:15 PM	329	
4:30 AM	19		4:30 PM	414	
4:45 AM	29		4:45 PM	391	
5:00 AM	18	134	5:00 PM	349	1361
5:15 AM	21		5:15 PM	339	
5:30 AM	43		5:30 PM	373	
5:45 AM	52		5:45 PM	300	
6:00 AM	56	325	6:00 PM	305	1132
6:15 AM	74		6:15 PM	281	
6:30 AM	77		6:30 PM	294	
6:45 AM	118		6:45 PM	252	
7:00 AM	110	551	7:00 PM	256	870
7:15 AM	109		7:15 PM	219	
7:30 AM	156		7:30 PM	215	
7:45 AM	176		7:45 PM	180	
8:00 AM	119	578	8:00 PM	140	564
8:15 AM	135		8:15 PM	170	
8:30 AM	142		8:30 PM	138	
8:45 AM	182		8:45 PM	116	
9:00 AM	150	653	9:00 PM	142	516
9:15 AM	189		9:15 PM	135	
9:30 AM	158		9:30 PM	128	
9:45 AM	156		9:45 PM	111	
10:00 AM	166	701	10:00 PM	109	350
10:15 AM	192		10:15 PM	76	
10:30 AM	149		10:30 PM	83	
10:45 AM	194		10:45 PM	82	
11:00 AM	187	826	11:00 PM	69	256
11:15 AM	186		11:15 PM	75	
11:30 AM	226		11:30 PM	62	
11:45 AM	227		11:45 PM	50	

E/B  
**24 Hour Volume** 15244

**12:00 AM - 12:00 PM**

	<u>E/B</u>
Count	4203
<b>Peak Hour</b>	11:00 AM
Volume	826
Factor	0.91

**12:00 PM - 12:00 AM**

	<u>E/B</u>
	11041
	4:30 PM
	1493
	0.90

Snohomish County Traffic Operations  
3000 Rockefeller Admin 5-W  
Everett WA 98201

LOCATION: 88 ST NE EB E/O 36 AVE NE  
WEATHER: 3 MIXED  
CLIENT: INT

Site: MARYSVILLE  
Date: 10/6/2010  
Wednesday

Daily Volume, per Channel

Channel: E/B

Interval Begin			Interval Begin		
12:00 AM	50	157	12:00 PM	240	943
12:15 AM	39		12:15 PM	206	
12:30 AM	45		12:30 PM	264	
12:45 AM	23		12:45 PM	233	
1:00 AM	27	97	1:00 PM	243	982
1:15 AM	24		1:15 PM	242	
1:30 AM	23		1:30 PM	236	
1:45 AM	23		1:45 PM	261	
2:00 AM	22	92	2:00 PM	268	1125
2:15 AM	27		2:15 PM	263	
2:30 AM	19		2:30 PM	309	
2:45 AM	24		2:45 PM	285	
3:00 AM	13	41	3:00 PM	281	1182
3:15 AM	5		3:15 PM	303	
3:30 AM	9		3:30 PM	308	
3:45 AM	14		3:45 PM	290	
4:00 AM	11	59	4:00 PM	306	1232
4:15 AM	6		4:15 PM	298	
4:30 AM	17		4:30 PM	251	
4:45 AM	25		4:45 PM	377	
5:00 AM	24	143	5:00 PM	325	1283
5:15 AM	32		5:15 PM	310	
5:30 AM	32		5:30 PM	312	
5:45 AM	55		5:45 PM	336	
6:00 AM	68	352	6:00 PM	298	1099
6:15 AM	73		6:15 PM	287	
6:30 AM	89		6:30 PM	266	
6:45 AM	122		6:45 PM	248	
7:00 AM	97	541	7:00 PM	257	856
7:15 AM	122		7:15 PM	220	
7:30 AM	150		7:30 PM	197	
7:45 AM	172		7:45 PM	182	
8:00 AM	145	607	8:00 PM	195	628
8:15 AM	150		8:15 PM	175	
8:30 AM	128		8:30 PM	128	
8:45 AM	184		8:45 PM	130	
9:00 AM	178	695	9:00 PM	139	512
9:15 AM	207		9:15 PM	129	
9:30 AM	155		9:30 PM	106	
9:45 AM	155		9:45 PM	138	
10:00 AM	166	682	10:00 PM	131	412
10:15 AM	176		10:15 PM	109	
10:30 AM	138		10:30 PM	77	
10:45 AM	202		10:45 PM	95	
11:00 AM	195	787	11:00 PM	97	285
11:15 AM	201		11:15 PM	73	
11:30 AM	194		11:30 PM	57	
11:45 AM	197		11:45 PM	58	

E/B  
14792

**24 Hour Volume**

**12:00 AM - 12:00 PM**  
E/B  
 Count 4253  
**Peak Hour** 10:45 AM  
 Volume 792  
 Factor 0.98

**12:00 PM - 12:00 AM**  
E/B  
 10539  
 4:45 PM  
 1324  
 0.88

Snohomish County Traffic Operations  
3000 Rockefeller Admin 5-W  
Everett WA 98201

LOCATION: 88 ST NE EB E/O 36 AVE NE  
WEATHER: 3 MIXED  
CLIENT: INT

Site: MARYSVILLE  
Date: 10/7/2010  
Thursday

Daily Volume, per Channel

Channel: E/B

Interval Begin			Interval Begin		
12:00 AM	50	184	12:00 PM	237	933
12:15 AM	55		12:15 PM	246	
12:30 AM	48		12:30 PM	240	
12:45 AM	31		12:45 PM	210	
1:00 AM	26	109	1:00 PM	262	962
1:15 AM	33		1:15 PM	222	
1:30 AM	27		1:30 PM	245	
1:45 AM	23		1:45 PM	233	
2:00 AM	21	92	2:00 PM	309	1200
2:15 AM	26		2:15 PM	272	
2:30 AM	19		2:30 PM	296	
2:45 AM	26		2:45 PM	323	
3:00 AM	16	64	3:00 PM	296	1249
3:15 AM	13		3:15 PM	302	
3:30 AM	14		3:30 PM	298	
3:45 AM	21		3:45 PM	353	
4:00 AM	12	66	4:00 PM	333	1264
4:15 AM	15		4:15 PM	312	
4:30 AM	23		4:30 PM	280	
4:45 AM	16		4:45 PM	339	
5:00 AM	22	127	5:00 PM	252	1272
5:15 AM	24		5:15 PM	321	
5:30 AM	29		5:30 PM	338	
5:45 AM	52		5:45 PM	361	
6:00 AM	51	317	6:00 PM	297	1120
6:15 AM	72		6:15 PM	277	
6:30 AM	75		6:30 PM	292	
6:45 AM	119		6:45 PM	254	
7:00 AM	118	554	7:00 PM	224	721
7:15 AM	141		7:15 PM	172	
7:30 AM	140		7:30 PM	180	
7:45 AM	155		7:45 PM	145	
8:00 AM	149	583	8:00 PM	165	666
8:15 AM	149		8:15 PM	188	
8:30 AM	120		8:30 PM	163	
8:45 AM	165		8:45 PM	150	
9:00 AM	139	668	9:00 PM	140	562
9:15 AM	205		9:15 PM	153	
9:30 AM	154		9:30 PM	140	
9:45 AM	170		9:45 PM	129	
10:00 AM	181	693	10:00 PM	112	355
10:15 AM	171		10:15 PM	102	
10:30 AM	148		10:30 PM	70	
10:45 AM	193		10:45 PM	71	
11:00 AM	193	810	11:00 PM	76	279
11:15 AM	215		11:15 PM	97	
11:30 AM	190		11:30 PM	51	
11:45 AM	212		11:45 PM	55	

E/B

**24 Hour Volume**

14850

**12:00 AM - 12:00 PM**

E/B

Count 4267  
**Peak Hour** 11:00 AM  
Volume 810  
Factor 0.94

**12:00 PM - 12:00 AM**

E/B

10583  
5:15 PM  
1317  
0.91

# Snohomish County Traffic Operations 3000 Rockefeller Admin 5-W Everett WA 98201

LOCATION: 88 ST NE WB E/O 36 AVE NE  
WEATHER: 3 MIXED  
CLIENT: INT

Site: MARYSVILLE  
Date: 10/5/2010  
Tuesday

## 24 Hour Speed Channel: A Tube

mph	0 - < 15	15 - < 20	20 - < 25	25 - < 30	30 - < 35	35 - < 40	40 - < 45	45 - < 50	50 - < 55	55 - < 60	60 - < 65	65 - < 70	70 - < 200
Total	62	1	0	3	14	17	17	6	3	1	0	0	0
12:00 AM	34	0	0	0	5	14	9	4	1	0	0	0	1
1:00 AM	45	0	0	0	7	14	14	8	1	0	0	0	0
2:00 AM	73	1	0	3	12	18	23	10	5	1	0	0	0
3:00 AM	127	0	1	3	15	31	48	18	6	0	0	0	0
4:00 AM	127	0	0	2	25	39	38	14	5	2	0	0	2
5:00 AM	88	0	0	5	14	28	28	10	2	1	0	0	0
6:00 AM	60	2	3	0	7	24	17	4	3	0	0	0	0
7:00 AM	82	1	0	3	15	21	25	16	1	0	0	0	0
8:00 AM	89	1	1	4	15	33	23	9	1	1	0	0	1
9:00 AM	92	1	3	10	24	31	19	2	2	0	0	0	0
10:00 AM	70	1	1	5	15	27	14	4	2	1	0	0	0
11:00 AM	49	0	3	3	10	19	12	2	0	0	0	0	0
12:00 PM	64	0	2	3	9	22	24	3	1	0	0	0	0
1:00 PM	50	0	1	7	9	10	16	6	1	0	0	0	0
2:00 PM	50	0	2	1	14	17	10	3	2	1	0	0	0
3:00 PM	62	1	2	4	10	22	17	5	1	0	0	0	0
4:00 PM	50	0	1	7	11	15	10	5	1	0	0	0	0
5:00 PM	61	0	0	3	11	22	19	5	0	1	0	0	0
6:00 PM	81	0	0	5	18	31	20	4	3	0	0	0	0
7:00 PM	107	0	2	3	23	38	28	11	2	0	0	0	0
8:00 PM	112	1	0	1	26	38	35	8	2	1	0	0	0
9:00 PM	108	0	0	5	23	30	35	12	2	1	0	0	0
10:00 PM	69	0	0	6	2	30	26	5	0	0	0	0	0
11:00 PM	1807	10	22	86	334	591	527	174	46	11	2	0	4
%	0.6	1.2	1.2	4.8	18.5	32.7	29.2	9.6	2.5	0.6	0.1	0.0	0.2

### Percentile Speeds (mph)

10 % 10 %  
26.6

15 % 15 %  
27.9

50 % 50 %  
34.2

85 % 85 %  
39.9

90 % 90 %  
40.9

### 10 mph Pace Speed Number in Pace

29.9 - 39.9  
1173 (64.9 %)

34.0 mph  
4.9 mph  
93.1 mph

### Speeds Exceeded

45 mph 55 mph 65 mph  
3.5 % 0.3 % 0.2 %  
63 6 4

Snohomish County Traffic Operations  
3000 Rockefeller Admin 5-W  
Everett WA 98201

LOCATION: 88 ST NE WB E/O 36 AVE NE  
WEATHER: 3 MIXED  
CLIENT: INT

Site: MARYSVILLE  
Date: 10/6/2010  
Wednesday

24 Hour Speed  
Channel: A Tube

mph	Total	0 - < 15	15 - < 20	20 - < 25	25 - < 30	30 - < 35	35 - < 40	40 - < 45	45 - < 50	50 - < 55	55 - < 60	60 - < 65	65 - < 70	70 - < 200
12:00 AM	47	1	0	0	10	16	15	5	0	0	0	0	0	0
1:00 AM	45	0	0	1	8	26	8	1	1	0	0	0	0	0
2:00 AM	49	0	0	1	11	17	13	5	2	0	0	0	0	0
3:00 AM	74	0	1	2	11	24	24	8	4	0	0	0	0	0
4:00 AM	123	0	1	4	9	37	49	18	4	1	0	0	0	0
5:00 AM	124	0	0	2	21	32	41	19	8	1	0	0	0	0
6:00 AM	99	0	0	4	17	34	35	6	2	0	1	0	0	0
7:00 AM	54	2	0	6	9	17	15	3	2	0	0	0	0	0
8:00 AM	105	0	4	2	21	25	30	20	3	0	0	0	0	0
9:00 AM	89	0	1	2	26	24	31	3	2	0	0	0	0	0
10:00 AM	64	0	0	5	19	19	14	6	1	0	0	0	0	0
11:00 AM	68	1	1	5	12	20	22	6	1	0	0	0	0	0
12:00 PM	70	0	0	4	21	23	14	6	2	0	0	0	0	0
1:00 PM	50	0	3	2	11	21	12	0	1	0	0	0	0	0
2:00 PM	56	0	2	2	16	21	10	2	1	1	0	0	0	1
3:00 PM	66	0	0	2	13	25	17	5	3	0	1	0	0	0
4:00 PM	59	0	1	2	13	24	11	7	0	0	1	0	0	0
5:00 PM	58	0	2	3	10	20	19	3	0	1	0	0	0	0
6:00 PM	71	0	1	6	20	25	16	3	0	0	0	0	0	0
7:00 PM	96	0	1	5	24	30	29	3	4	0	0	0	0	0
8:00 PM	92	0	2	5	22	37	18	5	3	0	0	0	0	0
9:00 PM	98	0	1	4	18	35	28	8	3	0	0	0	1	0
10:00 PM	100	0	2	5	11	34	31	11	4	1	1	0	0	0
11:00 PM	54	0	1	4	9	13	19	6	2	0	0	0	0	0
Total	1811	4	24	78	362	599	521	159	53	5	4	0	1	1
%		0.2	1.3	4.3	20.0	33.1	28.8	8.8	2.9	0.3	0.2	0.0	0.1	0.1

Percentile Speeds  
(mph)

10 % 10 % 15 % 50 % 85 % 90 %  
26.2 27.9 34.2 39.9 40.9

10 mph Pace Speed  
Number in Pace

29.9 - 39.9  
1161 (64.1 %)

Speeds Exceeded

45 mph 55 mph 65 mph  
3.5 % 0.3 % 0.1 %  
64 6 2

Count

Snohomish County Traffic Operations  
3000 Rockefeller Admin 5-W  
Everett WA 98201

LOCATION: 88 ST NE WB E/O 36 AVE NE  
WEATHER: 3 MIXED  
CLIENT: INT

Site: MARYSVILLE  
Date: 10/7/2010  
Thursday

24 Hour Speed  
Channel: A Tube

mph	Total	0 - < 15	15 - < 20	20 - < 25	25 - < 30	30 - < 35	35 - < 40	40 - < 45	45 - < 50	50 - < 55	55 - < 60	60 - < 65	65 - < 70	70 - < 200
12:00 AM	58	0	0	2	17	17	18	3	1	0	0	0	0	0
1:00 AM	45	0	0	3	6	13	17	5	0	1	0	0	0	0
2:00 AM	45	0	1	1	10	14	13	5	1	0	0	0	0	0
3:00 AM	63	0	0	2	15	14	22	7	1	1	0	0	0	1
4:00 AM	120	0	1	4	16	33	37	14	10	5	0	0	0	0
5:00 AM	122	0	0	6	14	27	49	18	4	2	0	1	1	0
6:00 AM	92	0	1	6	14	32	28	6	5	0	0	0	0	0
7:00 AM	71	0	2	2	16	19	17	12	3	0	0	0	0	0
8:00 AM	91	1	1	1	14	28	30	15	0	1	0	0	0	0
9:00 AM	88	0	1	1	20	29	30	6	1	0	0	0	0	0
10:00 AM	81	0	0	4	14	37	23	3	0	0	0	0	0	0
11:00 AM	75	1	1	6	17	26	17	4	2	0	1	0	0	0
12:00 PM	70	0	1	8	19	30	8	3	1	0	0	0	0	0
1:00 PM	79	0	1	9	15	20	30	3	0	0	0	0	0	0
2:00 PM	67	2	0	4	15	24	18	3	1	0	0	0	0	0
3:00 PM	63	0	1	5	10	28	14	5	0	0	0	0	0	0
4:00 PM	61	0	3	5	15	20	14	3	0	0	1	0	0	0
5:00 PM	60	2	0	3	15	21	15	3	0	1	0	0	0	0
6:00 PM	58	0	1	3	13	24	15	2	0	0	0	0	0	0
7:00 PM	103	0	1	6	20	37	28	9	2	0	0	0	0	0
8:00 PM	98	0	0	6	19	31	35	6	0	1	0	0	0	0
9:00 PM	107	0	0	5	12	39	38	8	3	1	0	0	1	0
10:00 PM	99	0	0	3	17	42	25	8	4	0	0	0	0	0
11:00 PM	70	1	0	5	15	29	16	2	1	0	1	0	0	0
Total	1886	7	17	100	358	634	557	153	40	13	0.7	0.2	0.1	1
%		0.4	0.9	5.3	19.0	33.6	29.5	8.1	2.1	0.7	0.2	0.1	0.1	0.1

Percentile Speeds  
(mph)

10 % 26.2  
15 % 27.9  
50 % 34.2  
85 % 39.9  
90 % 40.9

10 mph Pace Speed  
Number in Pace

29.9 - 39.9  
1236 (65.5 %)

Average  
Minimum  
Maximum

33.9 mph  
8.2 mph  
72.9 mph

Speeds Exceeded

45 mph 3.2 %  
55 mph 0.4 %  
65 mph 0.2 %

Count

60  
7  
3

# Snohomish County Traffic Operations 3000 Rockefeller Admin 5-W Everett WA 98201

LOCATION: 88 ST NE EB E/O 36 AVE NE  
WEATHER: 3 MIXED  
CLIENT: INT

Site: MARYSVILLE  
Date: 10/5/2010  
Tuesday

## 24 Hour Speed Channel: A Tube

mph	Total	0 - < 15	15 - < 20	20 - < 25	25 - < 30	30 - < 35	35 - < 40	40 - < 45	45 - < 50	50 - < 55	55 - < 60	60 - < 65	65 - < 70	70 - < 200
12:00 AM	79	0	1	3	13	24	32	3	2	1	0	0	0	0
1:00 AM	60	0	0	1	9	29	17	2	1	1	0	0	0	0
2:00 AM	55	0	0	2	7	21	16	4	3	1	1	0	0	0
3:00 AM	30	1	0	1	7	9	8	4	0	0	0	0	0	0
4:00 AM	50	0	1	1	8	13	19	8	0	0	0	0	0	0
5:00 AM	80	0	2	2	14	26	24	8	4	0	0	0	0	0
6:00 AM	95	0	0	0	17	33	29	13	3	0	0	0	0	0
7:00 AM	85	0	0	3	16	20	30	15	1	0	0	0	0	0
8:00 AM	85	2	1	2	17	25	22	12	3	1	0	0	0	0
9:00 AM	94	0	1	5	15	29	30	12	2	0	0	0	0	0
10:00 AM	105	0	1	5	25	35	26	11	2	0	0	0	0	0
11:00 AM	98	0	0	6	13	29	34	13	2	1	0	0	0	0
12:00 PM	88	0	1	8	17	24	29	7	2	0	0	0	0	0
1:00 PM	69	0	0	3	17	22	16	8	2	0	0	1	0	0
2:00 PM	55	2	5	8	11	15	9	4	0	0	0	0	0	1
3:00 PM	24	5	6	4	5	1	3	0	0	0	0	0	0	0
4:00 PM	21	5	7	4	1	1	3	0	0	0	0	0	0	0
5:00 PM	25	6	6	2	6	1	3	1	0	0	0	0	0	0
6:00 PM	73	1	2	6	18	18	19	5	3	1	0	0	0	0
7:00 PM	112	0	1	6	17	46	28	12	1	1	0	0	0	0
8:00 PM	126	0	2	4	27	41	40	10	1	0	0	1	0	0
9:00 PM	121	0	0	7	23	44	39	7	1	0	0	0	0	0
10:00 PM	130	0	1	6	15	42	47	15	3	0	0	1	0	0
11:00 PM	113	0	0	1	16	45	38	9	1	1	0	1	1	0
Total	1873	22	38	90	334	593	561	183	37	8	0.4	0.1	0.2	1
%		1.2	2.0	4.8	17.8	31.7	30.0	9.8	2.0	0.4	0.1	0.1	0.1	0.1

Percentile Speeds  
(mph)

10 % 15 % 50 % 85 % 90 %  
25.8 27.5 34.2 39.9 40.9

10 mph Pace Speed  
Number in Pace

29.9 - 39.9  
1205 (64.3 %)

33.7 mph  
3.4 mph  
76.2 mph

Speeds Exceeded

45 mph 55 mph 65 mph  
2.8 % 0.4 % 0.1 %  
52 7 2

Count

Snohomish County Traffic Operations  
3000 Rockefeller Admin 5-W  
Everett WA 98201

LOCATION: 88 ST NE EB E/O 36 AVE NE  
WEATHER: 3 MIXED  
CLIENT: INT

Site: MARYSVILLE  
Date: 10/6/2010  
Wednesday

24 Hour Speed  
Channel: A Tube

mph	Total	0 - < 15	15 - < 20	20 - < 25	25 - < 30	30 - < 35	35 - < 40	40 - < 45	45 - < 50	50 - < 55	55 - < 60	60 - < 65	65 - < 70	70 - < 200
12:00 AM	90	0	0	3	18	28	33	8	0	0	0	0	0	0
1:00 AM	70	0	0	0	14	28	24	4	0	0	0	0	0	0
2:00 AM	68	0	0	2	10	21	28	7	0	0	0	0	0	0
3:00 AM	33	0	0	0	4	17	8	4	0	0	0	0	0	0
4:00 AM	33	0	1	2	2	13	11	4	0	0	0	0	0	0
5:00 AM	74	0	1	1	6	34	20	7	5	0	0	0	0	0
6:00 AM	97	1	0	3	17	22	35	16	3	0	0	0	0	0
7:00 AM	103	1	0	2	12	31	35	19	3	0	0	0	0	0
8:00 AM	107	0	2	6	20	30	31	15	1	1	0	0	0	1
9:00 AM	91	1	0	5	15	23	33	10	4	0	0	0	0	0
10:00 AM	100	1	2	4	20	30	32	9	2	0	0	0	0	0
11:00 AM	83	0	1	1	19	32	20	4	5	1	0	0	0	0
12:00 PM	73	0	3	2	16	16	23	8	2	2	1	0	0	0
1:00 PM	83	1	2	7	15	26	20	9	1	2	0	0	0	0
2:00 PM	69	3	2	2	16	17	23	3	3	0	0	0	0	0
3:00 PM	65	3	2	7	17	16	14	5	0	0	1	0	0	0
4:00 PM	47	3	4	3	17	13	5	1	0	0	1	0	0	0
5:00 PM	52	5	11	7	10	19	0	0	0	0	0	0	0	0
6:00 PM	73	0	0	6	15	23	20	6	3	0	0	0	0	0
7:00 PM	114	0	0	13	18	38	32	11	1	1	0	0	0	0
8:00 PM	108	0	1	5	19	45	28	8	2	0	0	0	0	0
9:00 PM	130	0	0	3	19	48	44	11	4	1	0	0	0	0
10:00 PM	131	0	2	7	19	41	46	11	3	1	0	0	0	0
11:00 PM	121	0	0	4	22	41	39	12	1	2	0	0	0	0
Total	2015	19	34	95	360	652	604	192	43	11	4	0	0	1
%		0.9	1.7	4.7	17.9	32.4	30.0	9.5	2.1	0.5	0.2	0.0	0.0	0.0

Percentile Speeds  
(mph)

10 % 25.8  
15 % 27.5  
50 % 34.2  
85 % 39.9  
90 % 40.9

10 mph Pace Speed  
Number in Pace

29.9 - 39.9  
1292 (64.1 %)

Average  
Minimum  
Maximum

33.8 mph  
5.7 mph  
98.6 mph

Speeds Exceeded

45 mph 2.9 %  
55 mph 0.2 %  
65 mph 0.0 %

Count

59  
5  
1

Snohomish County Traffic Operations  
3000 Rockefeller Admin 5-W  
Everett WA 98201

LOCATION: 88 ST NE EB E/O 36 AVE NE  
WEATHER: 3 MIXED  
CLIENT: INT

Site: MARYSVILLE  
Date: 10/7/2010  
Thursday

24 Hour Speed  
Channel: A Tube

mph	Total	0 - < 15	15 - < 20	20 - < 25	25 - < 30	30 - < 35	35 - < 40	40 - < 45	45 - < 50	50 - < 55	55 - < 60	60 - < 65	65 - < 70	70 - < 200
12:00 AM	95	1	0	3	19	38	23	10	1	0	0	0	0	0
1:00 AM	76	0	0	1	14	29	21	9	0	1	1	0	0	0
2:00 AM	70	0	2	1	11	21	29	6	0	0	0	0	0	0
3:00 AM	44	1	1	3	11	12	13	1	2	0	0	0	0	0
4:00 AM	43	0	1	1	8	17	11	3	2	0	0	0	0	0
5:00 AM	74	1	2	4	19	24	17	7	0	0	0	0	0	0
6:00 AM	102	1	1	3	20	30	36	9	2	0	0	0	0	0
7:00 AM	101	2	0	1	16	26	33	16	5	1	0	0	0	1
8:00 AM	97	0	0	9	17	23	28	17	2	0	0	0	1	0
9:00 AM	99	0	2	5	21	27	33	8	2	0	0	0	1	0
10:00 AM	110	3	3	8	17	33	31	12	3	0	0	0	0	0
11:00 AM	99	0	0	4	16	29	31	17	2	0	0	0	0	0
12:00 PM	76	0	0	4	22	21	23	3	3	0	0	0	0	0
1:00 PM	90	0	1	9	15	21	22	17	4	1	0	0	0	0
2:00 PM	71	2	3	5	15	24	17	4	1	0	0	0	0	0
3:00 PM	65	3	3	4	11	26	14	3	1	0	0	0	0	0
4:00 PM	46	2	3	16	9	7	6	2	0	0	1	0	0	0
5:00 PM	25	7	3	2	8	3	1	0	1	0	0	0	0	0
6:00 PM	81	2	6	8	14	25	16	7	3	0	0	0	0	0
7:00 PM	114	0	2	6	23	36	31	12	2	1	0	0	0	1
8:00 PM	124	2	0	6	15	47	41	10	2	1	0	0	0	0
9:00 PM	116	0	0	5	15	39	42	12	3	0	0	0	0	0
10:00 PM	122	0	1	6	32	37	34	8	3	0	0	0	0	0
11:00 PM	131	0	2	5	20	40	49	9	4	0	0	1	0	1
Total	2071	27	36	119	388	635	602	202	48	5	2	2	2	3
%		1.3	1.7	5.7	18.7	30.7	29.1	9.8	2.3	0.2	0.1	0.1	0.1	0.1

Percentile Speeds  
(mph)

10 % 25.4  
15 % 27.0  
50 % 34.2  
85 % 39.9  
90 % 40.9

10 mph Pace Speed  
Number in Pace

29.9 - 39.9  
1299 (62.7 %)

Average  
Minimum  
Maximum

33.6 mph  
1.5 mph  
119.7 mph

Speeds Exceeded

Count

45 mph 3.0 %  
62  
55 mph 0.4 %  
9  
65 mph 0.2 %  
5

# Snohomish County Traffic Analysis & Design

3000 Rockefeller Ave. ADM-W-5  
Everett WA. 98201

Location : 116 ST NE WB E/O I-5 NB RAMPs  
Weather : 2 MIXED  
Client : SCREENLINE

Site:  
Date:

MARYSVILLE  
3/27/2007  
Tuesday

AM/PM Volume (1 channel/pg., 15 Min.)

Channel: W/B

Interval Begin			Interval Begin		
00:00	14	45	12:00	112	439
00:15	11		12:15	110	
00:30	12		12:30	95	
00:45	8		12:45	122	
01:00	5	28	13:00	135	466
01:15	4		13:15	127	
01:30	8		13:30	122	
01:45	11		13:45	82	
02:00	8	24	14:00	153	539
02:15	5		14:15	124	
02:30	4		14:30	132	
02:45	7		14:45	130	
03:00	9	47	15:00	143	541
03:15	9		15:15	118	
03:30	14		15:30	148	
03:45	15		15:45	132	
04:00	19	150	16:00	170	563
04:15	26		16:15	148	
04:30	57		16:30	132	
04:45	48		16:45	113	
05:00	87	363	17:00	115	492
05:15	82		17:15	147	
05:30	108		17:30	120	
05:45	86		17:45	110	
06:00	89	397	18:00	130	435
06:15	106		18:15	102	
06:30	102		18:30	110	
06:45	100		18:45	93	
07:00	111	418	19:00	102	294
07:15	95		19:15	63	
07:30	113		19:30	66	
07:45	99		19:45	63	
08:00	92	395	20:00	67	235
08:15	88		20:15	65	
08:30	109		20:30	59	
08:45	106		20:45	44	
09:00	100	353	21:00	56	192
09:15	80		21:15	37	
09:30	87		21:30	56	
09:45	86		21:45	43	
10:00	89	376	22:00	43	121
10:15	82		22:15	26	
10:30	85		22:30	27	
10:45	120		22:45	25	
11:00	134	488	23:00	17	69
11:15	102		23:15	24	
11:30	144		23:30	12	
11:45	108		23:45	16	
<b>Totals</b>					
12 Hours	3084		4386		
24 Hours	7470				
<b>Peak Hours</b>					
AM	10:45		PM	15:30	
Volume	500			598	
Factor	0.87			0.88	

# Snohomish County Traffic Analysis & Design

3000 Rockefeller Ave. ADM-W-5

Everett WA. 98201

Location : 116 ST NE WB E/O I-5 NB RAMPS  
Weather : 2 MIXED  
Client : SCREENLINE

Site:  
Date:

MARYSVILLE  
3/28/2007  
Wednesday

AM/PM Volume (1 channel/pg., 15 Min.)

Channel: W/B

Interval Begin			Interval Begin		
00:00	9	52	12:00	125	507
00:15	19		12:15	117	
00:30	17		12:30	134	
00:45	7		12:45	131	
01:00	3	30	13:00	126	444
01:15	10		13:15	92	
01:30	8		13:30	108	
01:45	9		13:45	118	
02:00	13	42	14:00	121	548
02:15	11		14:15	131	
02:30	6		14:30	138	
02:45	12		14:45	158	
03:00	8	46	15:00	141	606
03:15	10		15:15	163	
03:30	13		15:30	153	
03:45	15		15:45	149	
04:00	31	139	16:00	142	565
04:15	24		16:15	147	
04:30	38		16:30	139	
04:45	46		16:45	137	
05:00	73	355	17:00	132	524
05:15	81		17:15	159	
05:30	111		17:30	122	
05:45	90		17:45	111	
06:00	87	379	18:00	118	473
06:15	88		18:15	116	
06:30	88		18:30	121	
06:45	116		18:45	118	
07:00	115	432	19:00	96	336
07:15	106		19:15	81	
07:30	110		19:30	94	
07:45	101		19:45	65	
08:00	99	397	20:00	95	272
08:15	97		20:15	67	
08:30	96		20:30	55	
08:45	105		20:45	55	
09:00	95	333	21:00	43	160
09:15	72		21:15	38	
09:30	87		21:30	41	
09:45	79		21:45	38	
10:00	95	368	22:00	44	114
10:15	77		22:15	26	
10:30	103		22:30	26	
10:45	93		22:45	18	
11:00	106	495	23:00	28	78
11:15	131		23:15	18	
11:30	140		23:30	18	
11:45	118		23:45	14	
<b>Totals</b>					
12 Hours	3068			4627	
24 Hours	7695				
<b>Peak Hours</b>					
AM	11:00		PM	14:45	
Volume	495			615	
Factor	0.88			0.94	

# Snohomish County Traffic Analysis & Design

3000 Rockefeller Ave. ADM-W-5  
Everett WA. 98201

Location : 116 ST NE EB E/O I-5 NB RAMPS  
Weather : 2 MIXED  
Client : SCREENLINE

Site: MARYSVILLE  
Date: 3/27/2007  
Tuesday

AM/PM Volume (1 channel/pg., 15 Min.)

Channel: E/B

Interval Begin			Interval Begin		
00:00	17	54	12:00	125	587
00:15	10		12:15	147	
00:30	16		12:30	170	
00:45	11		12:45	145	
01:00	19	74	13:00	120	538
01:15	21		13:15	131	
01:30	11		13:30	140	
01:45	23		13:45	147	
02:00	5	38	14:00	168	675
02:15	12		14:15	167	
02:30	6		14:30	163	
02:45	15		14:45	177	
03:00	4	43	15:00	162	763
03:15	12		15:15	195	
03:30	7		15:30	215	
03:45	20		15:45	191	
04:00	21	98	16:00	221	876
04:15	15		16:15	216	
04:30	23		16:30	216	
04:45	39		16:45	223	
05:00	35	219	17:00	207	882
05:15	35		17:15	228	
05:30	65		17:30	215	
05:45	84		17:45	232	
06:00	72	396	18:00	173	583
06:15	77		18:15	140	
06:30	105		18:30	153	
06:45	142		18:45	117	
07:00	93	418	19:00	118	415
07:15	86		19:15	113	
07:30	108		19:30	93	
07:45	131		19:45	91	
08:00	92	405	20:00	94	343
08:15	82		20:15	90	
08:30	93		20:30	91	
08:45	138		20:45	68	
09:00	100	426	21:00	76	264
09:15	111		21:15	71	
09:30	114		21:30	56	
09:45	101		21:45	61	
10:00	96	517	22:00	54	169
10:15	137		22:15	39	
10:30	139		22:30	31	
10:45	145		22:45	45	
11:00	110	493	23:00	31	98
11:15	123		23:15	34	
11:30	148		23:30	16	
11:45	112		23:45	17	
<b>Totals</b>					
12 Hours	3181			6193	
24 Hours	9374				
<b>Peak Hours</b>					
AM	10:15		PM	17:00	
Volume	531			882	
Factor	0.92			0.95	

# Snohomish County Traffic Analysis & Design

3000 Rockefeller Ave. ADM-W-5  
Everett WA. 98201

Location : 116 ST NE EB E/O I-5 NB RAMPS  
Weather : 2 MIXED  
Client : SCREENLINE

Site:  
Date:

MARYSVILLE  
3/28/2007  
Wednesday

AM/PM Volume (1 channel/pg., 15 Min.)

Channel: E/B

Interval Begin			Interval Begin		
00:00	22	71	12:00	128	547
00:15	13		12:15	133	
00:30	18		12:30	149	
00:45	18		12:45	137	
01:00	12	52	13:00	160	604
01:15	14		13:15	146	
01:30	12		13:30	149	
01:45	14		13:45	149	
02:00	9	41	14:00	136	633
02:15	10		14:15	168	
02:30	7		14:30	164	
02:45	15		14:45	165	
03:00	9	43	15:00	188	819
03:15	9		15:15	199	
03:30	11		15:30	204	
03:45	14		15:45	228	
04:00	13	79	16:00	187	853
04:15	14		16:15	228	
04:30	18		16:30	209	
04:45	34		16:45	229	
05:00	29	211	17:00	214	827
05:15	38		17:15	238	
05:30	53		17:30	183	
05:45	91		17:45	192	
06:00	53	367	18:00	178	644
06:15	67		18:15	186	
06:30	113		18:30	150	
06:45	134		18:45	130	
07:00	81	429	19:00	137	443
07:15	100		19:15	103	
07:30	137		19:30	102	
07:45	111		19:45	101	
08:00	81	375	20:00	84	356
08:15	91		20:15	99	
08:30	100		20:30	79	
08:45	103		20:45	94	
09:00	91	378	21:00	76	291
09:15	88		21:15	72	
09:30	92		21:30	85	
09:45	107		21:45	58	
10:00	107	464	22:00	47	176
10:15	122		22:15	45	
10:30	120		22:30	38	
10:45	115		22:45	46	
11:00	113	466	23:00	25	93
11:15	93		23:15	28	
11:30	142		23:30	18	
11:45	118		23:45	22	
<b>Totals</b>					
12 Hours	2976			6286	
24 Hours	9262				
<b>Peak Hours</b>					
AM	10:15		PM	16:30	
Volume	470			890	
Factor	0.96			0.93	

# Snohomish County Traffic Analysis & Design

3000 Rockefeller Ave. ADM-W-5  
Everett WA. 98201

Location : 116 ST NE WB E/O I-5 NB RAMPS  
Weather : 2 MIXED  
Client : SCREENLINE

Site: MARYSVILLE  
Date: 3/27/2007  
Tuesday

## 24 Hour Speed (60 Min.)

		Channel: A Tube													
mph		0 - < 15	15 - < 20	20 - < 25	25 - < 30	30 - < 35	35 - < 40	40 - < 45	45 - < 50	50 - < 55	55 - < 60	60 - < 65	65 - < 70	70 - < 200	
Total		36	0	1	3	13	10	6	2	1	0	0	0	0	
00:00		25	0	3	1	8	6	4	2	1	0	0	0	0	
02:00		19	0	1	0	4	6	5	2	1	0	0	0	0	
03:00		41	0	2	4	7	8	8	6	5	0	1	0	0	
04:00		86	3	3	8	17	13	18	15	6	2	0	0	0	
05:00		133	7	15	22	27	21	16	17	5	3	0	0	0	
06:00		134	10	13	13	26	23	29	15	4	1	0	0	0	
07:00		118	13	11	15	18	21	27	12	1	0	0	0	0	
08:00		113	7	13	23	17	18	19	14	1	0	0	0	1	
09:00		148	17	16	27	29	25	22	9	3	0	0	0	0	
10:00		103	8	19	25	15	18	13	4	1	0	0	0	0	
11:00		111	18	12	16	33	15	12	3	1	0	0	0	1	
12:00		117	15	17	25	32	13	7	5	1	0	0	0	1	
13:00		104	18	12	18	23	19	8	5	0	1	0	0	0	
14:00		94	9	25	16	22	9	10	1	0	0	0	0	1	
15:00		113	14	27	22	26	13	4	5	1	0	0	0	1	
16:00		106	24	21	24	18	12	2	3	1	0	0	0	1	
17:00		103	11	22	19	24	14	8	4	1	0	0	0	0	
18:00		93	11	6	17	21	19	10	6	1	0	0	0	0	
19:00		92	14	19	27	20	6	4	2	0	0	0	0	2	
20:00		118	13	17	35	24	16	11	1	0	0	0	0	0	
21:00		112	4	19	28	25	20	12	4	0	0	0	0	0	
22:00		92	3	13	13	27	17	13	3	1	2	0	0	0	
23:00		59	1	3	13	16	11	10	4	1	0	0	0	0	
Total	2270	220	310	414	492	353	278	144	38	10	1	0	0	7	
%		9.7	13.7	18.2	21.7	15.6	12.2	6.3	1.7	0.4	0.0	0.0	0.0	0.1	

**Percentile Speeds**  
(mph)

27.3 mph  
0.2 mph  
157.4 mph

**10 mph Pace Speed**  
Number in pace

19.5 - 29.5  
925 (40.7 %)

**Speeds Exceeded**

45 mph  
2.6 %  
59

55 mph  
0.5 %  
11

Count

# Snohomish County Traffic Analysis & Design

3000 Rockefeller Ave. ADM-W-5

Everett WA, 98201

Location : 116 ST NE WB E/O I-5 NB RAMPS  
Weather : 2 MIXED  
Client : SCREENLINE

Site: MARYSVILLE  
Date: 3/28/2007  
Wednesday

## 24 Hour Speed (60 Min.)

Channel: A Tube

mph	Total	0 - < 15	15 - < 20	20 - < 25	25 - < 30	30 - < 35	35 - < 40	40 - < 45	45 - < 50	50 - < 55	55 - < 60	60 - < 65	65 - < 70	70 - < 200
00:00	43	2	4	2	11	11	12	1	0	0	0	0	0	0
01:00	21	0	2	4	5	5	4	1	0	0	0	0	0	0
02:00	27	0	0	5	7	7	3	4	0	1	0	0	0	0
03:00	42	0	0	2	10	13	8	8	0	0	1	0	0	0
04:00	94	1	4	6	18	18	24	15	4	4	0	0	0	0
05:00	146	7	15	21	30	24	22	22	6	1	0	0	0	0
06:00	132	11	13	16	26	27	22	13	4	0	0	0	0	0
07:00	132	14	10	18	21	22	18	16	10	1	0	2	0	0
08:00	112	23	13	19	22	11	11	11	2	0	0	0	0	0
09:00	139	13	13	18	30	20	29	12	3	1	0	0	0	0
10:00	93	7	13	22	19	9	14	8	0	0	0	0	0	1
11:00	111	12	16	22	28	17	12	4	0	0	0	0	0	0
12:00	93	10	17	24	19	13	3	4	1	1	0	0	0	1
13:00	114	11	18	20	24	14	12	12	1	0	0	0	0	2
14:00	94	16	9	19	28	13	4	1	1	2	0	0	0	1
15:00	81	15	17	20	12	8	2	3	0	0	0	0	0	4
16:00	99	18	9	24	24	6	8	5	1	0	0	0	0	4
17:00	82	16	14	14	15	6	11	4	1	0	0	0	1	0
18:00	93	23	11	16	18	15	4	4	1	0	0	0	0	1
19:00	117	17	25	34	22	14	2	3	0	0	0	0	0	0
20:00	113	16	13	31	28	20	4	0	1	0	0	0	0	0
21:00	101	5	12	32	21	19	6	6	0	0	0	0	0	0
22:00	76	0	6	11	17	16	18	7	1	0	0	0	0	0
23:00	61	0	5	11	12	14	13	4	2	0	0	0	0	0
Total	2216	237	259	411	467	338	268	168	39	11	1	0	3	14
%	10.7	11.7	11.7	18.5	21.1	15.3	12.1	7.6	1.8	0.5	0.0	0.0	0.1	0.6

**Percentile Speeds**  
(mph)

10 % 14.6  
15 % 17.1  
50 % 27.1  
85 % 38.5  
90 % 40.3

**10 mph Pace Speed**  
Number in pace

19.5 - 29.5  
897 (40.5 %)

**Average**  
Minimum  
Maximum

27.8 mph  
0.2 mph  
157.4 mph

**Speeds Exceeded**

45 mph 3.1 %  
55 mph 0.8 %  
65 mph 17

Count

68

# Snohomish County Traffic Analysis & Design

3000 Rockefeller Ave. ADM-W-5  
Everett WA. 98201

Location : 116 ST NE EB E/O I-5 NB RAMPS  
Weather : 2 MIXED  
Client : SCREENLINE

Site: MARYSVILLE  
Date: 3/27/2007  
Tuesday

## 24 Hour Speed (60 Min.)

Channel: A Tube

mph	Total	0 - < 15	15 - < 20	20 - < 25	25 - < 30	30 - < 35	35 - < 40	40 - < 45	45 - < 50	50 - < 55	55 - < 60	60 - < 65	65 - < 70	70 - < 200
00:00	46	1	5	8	12	12	4	3	1	0	0	0	0	0
01:00	61	2	8	12	23	7	5	4	0	0	0	0	0	0
02:00	23	0	0	7	7	3	5	1	0	0	0	0	0	0
03:00	30	3	1	7	9	7	1	2	0	0	0	0	0	0
04:00	66	2	4	11	29	9	7	4	0	0	0	0	0	0
05:00	98	0	9	15	36	26	4	6	1	0	0	1	0	0
06:00	129	3	13	27	59	19	6	1	1	0	0	0	0	0
07:00	116	3	8	29	49	14	9	4	0	0	0	0	0	0
08:00	114	3	12	24	49	14	9	3	0	0	0	0	0	0
09:00	118	3	12	33	39	16	12	2	0	0	1	0	0	0
10:00	126	4	13	42	41	19	6	0	1	0	0	0	0	0
11:00	120	4	8	29	42	27	3	5	2	0	0	0	0	0
12:00	114	7	6	25	33	27	12	3	1	0	0	0	0	0
13:00	120	2	13	32	38	24	9	2	0	0	0	0	0	0
14:00	120	3	7	36	42	20	7	3	1	0	0	0	1	0
15:00	101	0	11	25	44	13	6	2	0	0	0	0	0	0
16:00	113	2	8	29	45	18	8	3	0	0	0	0	0	0
17:00	92	1	6	14	38	25	6	1	0	0	1	0	0	0
18:00	118	1	8	23	49	24	5	5	1	0	0	2	0	0
19:00	129	2	10	30	48	27	4	6	1	0	0	0	1	0
20:00	126	0	7	31	50	25	11	0	2	0	0	0	0	0
21:00	147	2	7	21	58	34	17	7	0	0	0	0	1	0
22:00	103	1	2	20	38	16	24	1	1	0	0	0	0	0
23:00	78	0	7	22	28	13	6	1	1	0	0	0	0	0
Total	2408	49	185	552	906	439	186	69	14	0	2	3	0.1	0.0
%		2.0	7.7	22.9	37.6	18.2	7.7	2.9	0.6	0.0	0.1	0.1	0.1	0.0

Percentile Speeds  
(mph)

10 % 20.1  
15 % 21.6  
50 % 27.5  
85 % 33.3  
90 % 35.3

10 mph Pace Speed  
Number in pace

22.2 - 32.2  
1563 (64.9 %)

Average  
Minimum  
Maximum

27.6 mph  
8.3 mph  
66.6 mph

Speeds Exceeded

Count 45 mph 0.9 % 22  
55 mph 0.3 % 8  
65 mph 0.1 % 3

A - 34

# Snohomish County Traffic Analysis & Design

3000 Rockefeller Ave. ADM-W-5

Everett WA. 98201

Location : 116 ST NE EB E/O I-5 NB RAMPS  
Weather : 2 MIXED  
Client : SCREENLINE

Site: MARYSVILLE  
Date: 3/28/2007  
Wednesday

## 24 Hour Speed (60 Min.)

mph	0 - < 15	15 - < 20	20 - < 25	25 - < 30	30 - < 35	35 - < 40	40 - < 45	45 - < 50	50 - < 55	55 - < 60	60 - < 65	65 - < 70	70 - < 200
Total	63	4	17	25	13	3	1	0	0	0	0	0	0
00:00	43	2	9	16	6	2	1	0	0	0	0	0	0
01:00	36	1	3	10	10	3	3	0	0	0	0	0	0
02:00	33	0	2	4	13	8	4	2	0	0	0	0	0
03:00	33	0	2	4	13	8	4	2	0	0	0	0	0
04:00	63	2	5	10	21	16	6	2	0	1	0	0	0
05:00	107	2	8	17	41	27	7	4	1	0	0	0	0
06:00	114	0	16	19	42	19	13	4	1	0	0	0	0
07:00	130	1	10	21	53	31	10	3	1	0	0	0	0
08:00	133	2	10	27	52	25	11	6	0	0	0	0	0
09:00	124	6	14	22	45	20	8	0	0	0	1	0	0
10:00	135	4	13	31	44	24	13	6	0	0	0	0	0
11:00	121	7	6	31	39	27	11	0	0	0	0	0	0
12:00	119	9	7	32	36	24	8	2	0	1	0	0	0
13:00	128	1	8	33	47	26	9	4	0	0	0	0	0
14:00	124	2	13	32	49	19	8	1	0	0	0	0	0
15:00	83	1	6	26	26	13	7	3	1	0	0	0	0
16:00	76	0	8	18	28	12	8	2	0	0	0	0	0
17:00	92	0	6	16	47	14	8	0	0	0	1	0	0
18:00	127	0	9	30	49	21	17	1	0	0	0	0	0
19:00	138	0	5	23	56	36	13	2	2	1	0	0	0
20:00	127	1	2	36	43	33	8	2	1	0	0	0	0
21:00	134	1	5	27	58	30	8	4	1	0	0	0	0
22:00	115	1	10	25	39	28	10	2	0	0	0	0	0
23:00	78	0	3	15	32	24	3	1	0	0	0	0	0
Total	2443	43	175	527	911	506	202	65	8	4	0	2	0
%	1.8	7.2	21.6	37.3	20.7	8.3	2.7	0.3	0.2	0.0	0.1	0.0	0.0

**Percentile Speeds**  
(mph)  
10 % 20.6  
15 % 21.9  
50 % 27.5  
85 % 34.0  
90 % 36.1

**10 mph Pace Speed**  
Number in pace  
22.8 - 32.8  
1572 (64.3 %)  
Average  
Minimum  
Maximum  
27.9 mph  
7.9 mph  
64.1 mph

**Speeds Exceeded**  
Count  
45 mph 0.6 %  
55 mph 0.1 %  
65 mph 0.0 %  
14  
2  
0

# City of Marysville

80 Columbia Avenue  
Marysville, WA 98270  
360-363-8100

Page 1  
Date Printed: 02-Apr-09

1st St  
Geddes  
Site Code:

EB WB

Start Time	17-Mar-09 Tue	Channel 1	Channel 2	Total
12:00 AM		*	*	*
01:00		*	*	*
02:00		*	*	*
03:00		*	*	*
04:00		*	*	*
05:00		*	*	*
06:00		*	*	*
07:00		*	*	*
08:00		*	*	*
09:00		*	*	*
10:00		*	*	*
11:00		*	*	*
12:00 PM		*	*	*
01:00		*	*	*
02:00		205	253	458
03:00		172	319	491
04:00		132	263	395
05:00		84	189	273
06:00		42	107	149
07:00		39	60	99
08:00		29	39	68
09:00		17	25	42
10:00		17	7	24
11:00		4	9	13
Total		741	1271	2012
Percent		36.8%	63.2%	
AM Peak Vol.				
PM Peak Vol.	14:00	15:00		15:00
	205	319		491

# City of Marysville

80 Columbia Avenue  
Marysville, WA 98270  
360-363-8100

Page 2  
Date Printed: 02-Apr-09

1st St  
Geddes  
Site Code:

Start Time	18-Mar-09 Wed	Channel 1	Channel 2	Total
12:00 AM		8	13	21
01:00		3	6	9
02:00		5	6	11
03:00		10	6	16
04:00		26	27	53
05:00		32	56	88
06:00		82	110	192
07:00		46	77	123
08:00		63	110	173
09:00		73	112	185
10:00		103	144	247
11:00		<b>122</b>	<b>182</b>	<b>304</b>
12:00 PM		101	196	297
01:00		133	209	342
02:00		<b>185</b>	<b>280</b>	<b>465</b>
03:00		153	277	430
04:00		137	272	409
05:00		92	166	258
06:00		67	87	154
07:00		40	72	112
08:00		25	41	66
09:00		14	27	41
10:00		9	18	27
11:00		5	9	14
Total		1534	2503	4037
Percent		38.0%	62.0%	
AM Peak		11:00	11:00	11:00
Vol.		122	182	304
PM Peak		14:00	14:00	14:00
Vol.		185	280	465

# City of Marysville

80 Columbia Avenue  
Marysville, WA 98270  
360-363-8100

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Date Printed: 02-Apr-09

1st St  
Geddes  
Site Code:

Start Time	19-Mar-09 Thu	Channel 1	Channel 2	Total
12:00 AM		7	4	11
01:00		9	3	12
02:00		3	4	7
03:00		9	5	14
04:00		83	18	101
05:00		345	60	405
06:00		292	132	424
07:00		47	98	145
08:00		76	118	194
09:00		83	121	204
10:00		95	154	249
11:00		122	203	325
12:00 PM		104	190	294
01:00		157	197	354
02:00		187	271	458
03:00		163	307	470
04:00		109	245	354
05:00		80	152	232
06:00		51	106	157
07:00		46	57	103
08:00		19	36	55
09:00		15	18	33
10:00		7	12	19
11:00		12	14	26
Total		2121	2525	4646
Percent		45.7%	54.3%	
AM Peak		05:00	11:00	06:00
Vol.		345	203	424
PM Peak		14:00	15:00	15:00
Vol.		187	307	470

# City of Marysville

80 Columbia Avenue  
Marysville, WA 98270  
360-363-8100

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Date Printed: 02-Apr-09

1st St  
Geddes  
Site Code:

Start Time	20-Mar-09 Fri	Channel 1	Channel 2	Total
12:00 AM		8	5	13
01:00		3	4	7
02:00		5	3	8
03:00		9	9	18
04:00		32	27	59
05:00		30	44	74
06:00		72	99	171
07:00		52	91	143
08:00		76	114	190
09:00		80	137	217
10:00		88	158	246
11:00		136	204	340
12:00 PM		122	215	337
01:00		128	266	394
02:00		232	366	598
03:00		252	392	644
04:00		126	363	489
05:00		75	295	370
06:00		52	147	199
07:00		34	80	114
08:00		36	59	95
09:00		17	39	56
10:00		21	25	46
11:00		8	18	26
Total		1694	3160	4854
Percent		34.9%	65.1%	
AM Peak		11:00	11:00	11:00
Vol.		136	204	340
PM Peak		15:00	15:00	15:00
Vol.		252	392	644

# City of Marysville

80 Columbia Avenue  
Marysville, WA 98270  
360-363-8100

Page 5  
Date Printed: 02-Apr-09

1st St  
Geddes  
Site Code:

Start Time	21-Mar-09 Sat	Channel 1	Channel 2	Total
12:00 AM		8	24	32
01:00		12	6	18
02:00		2	3	5
03:00		6	3	9
04:00		6	11	17
05:00		9	9	18
06:00		17	25	42
07:00		31	47	78
08:00		43	88	131
09:00		81	117	198
10:00		103	169	272
11:00		118	215	333
12:00 PM		82	173	255
01:00		92	169	261
02:00		80	145	225
03:00		80	135	215
04:00		61	150	211
05:00		68	118	186
06:00		48	94	142
07:00		36	53	89
08:00		25	42	67
09:00		22	28	50
10:00		16	20	36
11:00		12	12	24
Total		1058	1856	2914
Percent		36.3%	63.7%	
AM Peak		11:00	11:00	11:00
Vol.		118	215	333
PM Peak		13:00	12:00	13:00
Vol.		92	173	261

# City of Marysville

80 Columbia Avenue  
Marysville, WA 98270  
360-363-8100

Page 6  
Date Printed: 02-Apr-09

1st St  
Geddes  
Site Code:

Start Time	22-Mar-09 Sun	Channel 1	Channel 2	Total
12:00 AM		5	5	10
01:00		10	6	16
02:00		4	5	9
03:00		3	2	5
04:00		4	5	9
05:00		3	6	9
06:00		5	19	24
07:00		22	36	58
08:00		34	64	98
09:00		33	74	107
10:00		50	108	158
11:00		77	122	199
12:00 PM		69	140	209
01:00		69	131	200
02:00		80	118	198
03:00		46	110	156
04:00		65	122	187
05:00		71	103	174
06:00		33	69	102
07:00		25	35	60
08:00		20	28	48
09:00		18	24	42
10:00		9	7	16
11:00		3	11	14
Total		758	1350	2108
Percent		36.0%	64.0%	
AM Peak		11:00	11:00	11:00
Vol.		77	122	199
PM Peak		14:00	12:00	12:00
Vol.		80	140	209

# City of Marysville

80 Columbia Avenue  
Marysville, WA 98270  
360-363-8100

Page 7  
Date Printed: 02-Apr-09

1st St  
Geddes  
Site Code:

Start Time	23-Mar-09 Mon	Channel 1	Channel 2	Total
12:00 AM		3	2	5
01:00		2	2	4
02:00		2	2	4
03:00		4	4	8
04:00		30	26	56
05:00		32	53	85
06:00		89	100	189
07:00		55	108	163
08:00		72	110	182
09:00		74	123	197
10:00		115	169	284
11:00		121	200	321
12:00 PM		107	207	314
01:00		120	196	316
02:00		157	253	410
03:00		145	326	471
04:00		123	296	419
05:00		80	129	209
06:00		30	69	99
07:00		23	58	81
08:00		12	35	47
09:00		11	24	35
10:00		7	18	25
11:00		3	6	9
Total		1417	2516	3933
Percent		36.0%	64.0%	
AM Peak		11:00	11:00	11:00
Vol.		121	200	321
PM Peak		14:00	15:00	15:00
Vol.		157	326	471

# City of Marysville

80 Columbia Avenue  
Marysville, WA 98270  
360-363-8100

Page 8  
Date Printed: 02-Apr-09

1st St  
Geddes  
Site Code:

Start Time	24-Mar-09 Tue	Channel 1	Channel 2	Total
12:00 AM		6	3	9
01:00		3	5	8
02:00		5	1	6
03:00		7	3	10
04:00		24	25	49
05:00		33	57	90
06:00		91	111	202
07:00		56	99	155
08:00		64	108	172
09:00		69	166	235
10:00		100	147	247
11:00		122	201	323
12:00 PM		129	202	331
01:00		135	201	336
02:00		157	234	391
03:00		152	314	466
04:00		109	309	418
05:00		82	154	236
06:00		45	88	133
07:00		30	63	93
08:00		18	39	57
09:00		13	22	35
10:00		9	18	27
11:00		10	12	22
Total		1469	2582	4051
Percent		36.3%	63.7%	
AM Peak		11:00	11:00	11:00
Vol.		122	201	323
PM Peak		14:00	15:00	15:00
Vol.		157	314	466

# City of Marysville

80 Columbia Avenue  
Marysville, WA 98270  
360-363-8100

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Date Printed: 02-Apr-09

1st St  
Geddes  
Site Code:

Start Time	25-Mar-09 Wed	Channel 1	Channel 2	Total
12:00 AM		7	5	12
01:00		3	4	7
02:00		6	6	12
03:00		4	3	7
04:00		25	30	55
05:00		39	54	93
06:00		89	112	201
07:00		66	106	172
08:00		74	111	185
09:00		79	124	203
10:00		87	141	228
11:00		<b>102</b>	<b>188</b>	<b>290</b>
12:00 PM		119	184	303
01:00		147	208	355
02:00		<b>173</b>	215	388
03:00		164	<b>314</b>	<b>478</b>
04:00		117	264	381
05:00		91	174	265
06:00		46	104	150
07:00		40	74	114
08:00		20	51	71
09:00		12	32	44
10:00		8	14	22
11:00		5	9	14
Total		1523	2527	4050
Percent		37.6%	62.4%	
AM Peak		11:00	11:00	11:00
Vol.		102	188	290
PM Peak		14:00	15:00	15:00
Vol.		173	314	478

# City of Marysville

80 Columbia Avenue  
Marysville, WA 98270  
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Date Printed: 02-Apr-09

1st St  
Geddes  
Site Code:

Start Time	26-Mar-09 Thu	Channel 1	Channel 2	Total
12:00 AM		3	4	7
01:00		3	2	5
02:00		4	8	12
03:00		8	7	15
04:00		25	25	50
05:00		36	48	84
06:00		80	102	182
07:00		51	104	155
08:00		60	94	154
09:00		86	95	181
10:00		112	193	305
11:00		112	184	296
12:00 PM		120	174	294
01:00		127	210	337
02:00		187	244	431
03:00		187	326	513
04:00		125	315	440
05:00		79	219	298
06:00		51	100	151
07:00		26	58	84
08:00		23	44	67
09:00		12	16	28
10:00		13	19	32
11:00		7	8	15
Total		1537	2599	4136
Percent		37.2%	62.8%	
AM Peak		10:00	10:00	10:00
Vol.		112	193	305
PM Peak		14:00	15:00	15:00
Vol.		187	326	513

# City of Marysville

80 Columbia Avenue  
Marysville, WA 98270  
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1st St  
Geddes  
Site Code:

Start Time	27-Mar-09	Channel 1	Channel 2	Total
12:00 AM	Fri	9	8	17
01:00		6	10	16
02:00		3	7	10
03:00		7	9	16
04:00		37	42	79
05:00		46	48	94
06:00		105	113	218
07:00		78	99	177
08:00		98	102	200
09:00		89	122	211
10:00		135	178	313
11:00		142	237	379
12:00 PM		142	217	359
01:00		141	218	359
02:00		151	272	423
03:00		167	306	473
04:00		107	330	437
05:00		101	190	291
06:00		58	129	187
07:00		46	81	127
08:00		22	44	66
09:00		23	39	62
10:00		17	27	44
11:00		14	7	21
Total		1744	2835	4579
Percent		38.1%	61.9%	
AM Peak		11:00	11:00	11:00
Vol.		142	237	379
PM Peak		15:00	16:00	15:00
Vol.		167	330	473

# City of Marysville

80 Columbia Avenue  
Marysville, WA 98270  
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Date Printed: 02-Apr-09

1st St  
Geddes  
Site Code:

Start Time	28-Mar-09 Sat	Channel 1	Channel 2	Total
12:00 AM		8	16	24
01:00		8	5	13
02:00		3	4	7
03:00		4	9	13
04:00		2	16	18
05:00		10	21	31
06:00		23	41	64
07:00		37	78	115
08:00		55	129	184
09:00		58	165	223
10:00		78	249	327
11:00		71	255	326
12:00 PM		95	289	384
01:00		112	255	367
02:00		81	235	316
03:00		78	179	257
04:00		59	231	290
05:00		59	158	217
06:00		58	146	204
07:00		22	85	107
08:00		16	60	76
09:00		10	61	71
10:00		17	36	53
11:00		10	19	29
Total		974	2742	3716
Percent		26.2%	73.8%	
AM Peak		10:00	11:00	10:00
Vol.		78	255	327
PM Peak		13:00	12:00	12:00
Vol.		112	289	384

# City of Marysville

80 Columbia Avenue  
Marysville, WA 98270  
360-363-8100

Page 13  
Date Printed: 02-Apr-09

1st St  
Geddes  
Site Code:

Start Time	29-Mar-09 Sun	Channel 1	Channel 2	Total
12:00 AM		5	15	20
01:00		4	6	10
02:00		8	0	8
03:00		3	5	8
04:00		4	12	16
05:00		4	14	18
06:00		6	26	32
07:00		16	60	76
08:00		31	116	147
09:00		62	107	169
10:00		63	103	166
11:00		<b>70</b>	<b>139</b>	<b>209</b>
12:00 PM		72	132	204
01:00		75	133	208
02:00		<b>84</b>	<b>138</b>	<b>222</b>
03:00		58	120	178
04:00		62	82	144
05:00		58	118	176
06:00		26	69	95
07:00		33	49	82
08:00		18	30	48
09:00		19	30	49
10:00		7	8	15
11:00		7	10	17
Total		795	1522	2317
Percent		34.3%	65.7%	
AM Peak		11:00	11:00	11:00
Vol.		70	139	209
PM Peak		14:00	14:00	14:00
Vol.		84	138	222

# City of Marysville

80 Columbia Avenue  
Marysville, WA 98270  
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Date Printed: 02-Apr-09

1st St  
Geddes  
Site Code:

Start Time	30-Mar-09 Mon	Channel 1	Channel 2	Total
12:00 AM		3	5	8
01:00		0	3	3
02:00		3	2	5
03:00		2	5	7
04:00		18	21	39
05:00		34	50	84
06:00		67	92	159
07:00		52	52	104
08:00		72	102	174
09:00		79	127	206
10:00		106	171	277
11:00		127	176	303
12:00 PM		113	200	313
01:00		122	203	325
02:00		135	255	390
03:00		137	311	448
04:00		130	305	435
05:00		73	168	241
06:00		31	87	118
07:00		26	72	98
08:00		14	43	57
09:00		19	22	41
10:00		9	14	23
11:00		8	7	15
Total		1380	2493	3873
Percent		35.6%	64.4%	
AM Peak		11:00	11:00	11:00
Vol.		127	176	303
PM Peak		15:00	15:00	15:00
Vol.		137	311	448

# City of Marysville

80 Columbia Avenue  
Marysville, WA 98270  
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Date Printed: 02-Apr-09

1st St  
Geddes  
Site Code:

Start Time	31-Mar-09 Tue	Channel 1	Channel 2	Total
12:00 AM		3	3	6
01:00		1	1	2
02:00		4	4	8
03:00		3	4	7
04:00		20	29	49
05:00		35	56	91
06:00		69	93	162
07:00		45	110	155
08:00		80	123	203
09:00		96	123	219
10:00		118	198	316
11:00		118	209	327
12:00 PM		132	207	339
01:00		147	221	368
02:00		184	230	414
03:00		177	321	498
04:00		160	265	425
05:00		110	187	297
06:00		65	89	154
07:00		46	62	108
08:00		38	45	83
09:00		15	30	45
10:00		5	8	13
11:00		3	5	8
Total		1674	2623	4297
Percent		39.0%	61.0%	
AM Peak		10:00	11:00	11:00
Vol.		118	209	327
PM Peak		14:00	15:00	15:00
Vol.		184	321	498

# City of Marysville

80 Columbia Avenue  
Marysville, WA 98270  
360-363-8100

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Date Printed: 02-Apr-09

1st St  
Geddes  
Site Code:

Start Time	01-Apr-09 Wed	Channel 1	Channel 2	Total
12:00 AM		7	5	12
01:00		3	7	10
02:00		3	5	8
03:00		8	8	16
04:00		23	22	45
05:00		38	56	94
06:00		63	82	145
07:00		62	85	147
08:00		59	89	148
09:00		72	135	207
10:00		115	170	285
11:00		117	183	300
12:00 PM		113	234	347
01:00		127	216	343
02:00		132	258	390
03:00		155	310	465
04:00		124	317	441
05:00		68	151	219
06:00		47	113	160
07:00		49	71	120
08:00		27	57	84
09:00		15	27	42
10:00		11	20	31
11:00		10	7	17
Total		1448	2628	4076
Percent		35.5%	64.5%	
AM Peak		11:00	11:00	11:00
Vol.		117	183	300
PM Peak		15:00	16:00	15:00
Vol.		155	317	465

# City of Marysville

80 Columbia Avenue  
Marysville, WA 98270  
360-363-8100

Page 17  
Date Printed: 02-Apr-09

1st St  
Geddes  
Site Code:

Start Time	02-Apr-09 Thu	Channel 1	Channel 2	Total
12:00 AM		6	9	15
01:00		3	9	12
02:00		4	2	6
03:00		4	4	8
04:00		23	21	44
05:00		40	56	96
06:00		70	105	175
07:00		109	72	181
08:00		60	96	156
09:00		*	*	*
10:00		*	*	*
11:00		*	*	*
12:00 PM		*	*	*
01:00		*	*	*
02:00		*	*	*
03:00		*	*	*
04:00		*	*	*
05:00		*	*	*
06:00		*	*	*
07:00		*	*	*
08:00		*	*	*
09:00		*	*	*
10:00		*	*	*
11:00		*	*	*
Total		319	374	693
Percent		46.0%	54.0%	
AM Peak		07:00	06:00	07:00
Vol.		109	105	181
PM Peak				
Vol.				
Grand Total		22186	38106	60292
Percent		36.8%	63.2%	
ADT		ADT 3,818	AADT 3,818	



Washington State  
Department of Transportation

*Ru*

# Diamond Traffic Counter

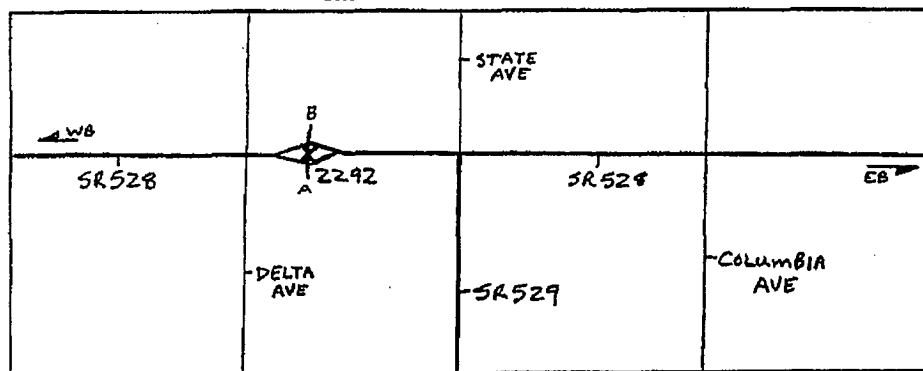
Interval <input type="checkbox"/> 60 min. <input checked="" type="checkbox"/> 15 min.
<input type="checkbox"/> Binned(CL/SP) <input checked="" type="checkbox"/> Count(volume)
Lane No <input type="checkbox"/> 1 <input type="checkbox"/> 2
Direction Channel 1 <u>EB</u>
Direction Channel 2 <u>WB</u>
Data Hog # _____

Counter No. <u>152292</u>	Count ID <u>HPMS</u>
SR <u>528</u> RRT/RRQ _____	MP <u>0.36</u>
Leg <u>1</u>	Direction <u>See 1,2</u> OSID _____

Station Description \_ ON SR 528 W/O SR 529 / STATE AVE

Date	Day	Time	Comments
4/6/09	2	10:51	Manual (1) 13 (2) 10 Counter (1) 13 (2) 10 CNTR SET OK CJ/JDM 6.5V
4/7/09	3	11:07	Manual (1) 40 (2) 50 Counter (1) 46 (2) 50 AC=6 ON A-TUBE CNTR CHECK OK CJ/JDM 7.1V
4/8/09	4	7:16	Manual (1) 20 (2) 50 Counter (1) 20 (2) 50 CNTR CHECK OK CJ/JDM 6.4V
4/9/09	5	7:26	Manual (1) 34 (2) 54 Counter (1) 36 (2) 54 AC=2 ON A-TUBE CNTR CHECK OK CJ/JDM 6.4V
4/10/09	6	7:06	Manual (1) 1 (2) 1 Counter (1) 1 (2) 1 CNTR C.P.U. OK CJ/JDM 6.4V

Sketch



North

CJ/JDM  
Field Person

DOT-RNB515A-B

## STATE OF WASHINGTON - DEPARTMENT OF TRANSPORTATION

## TRIP SYSTEM

## 15 MINUTE TRAFFIC COUNT SUMMARY

DATE 07/10/09  
TIME 06:43:55  
PAGE 103

SR 528	MP 000.36	OFF SYSTEM ID.	COUNTER NUMBER	152292	DESCRIPTION: ON SR 528 W/O SR 529/STATE AVE	LEG 1	DIRECTION OF TRAFFIC	WESTBOUND	LANE ALL	OF																
COUNT IDENTIFIER	HPMS	AM HOURS	PM HOURS	AM HOURS	PM HOURS	AM HOURS	PM HOURS	AM HOURS	PM HOURS	DAILY TOTAL																
04/06/09 MONDAY	12 1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	11 12																
00-15	12	1	2	3	4	5	6	7	8	9	10	11	12	DAILY TOTAL												
15-30	1	2	3	4	5	6	7	8	9	10	11	12	DAILY TOTAL													
30-45	1	2	3	4	5	6	7	8	9	10	11	12	DAILY TOTAL													
45-00	1	2	3	4	5	6	7	8	9	10	11	12	DAILY TOTAL													
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	DAILY TOTAL													
TOT	793	832	836	803	763	760	729	658	569	461	394	253	137	7988												
	AM PEAK HOUR 1100 TO 1200 VOLUME 793	PM PEAK HOUR 1245 TO 0145 VOLUME 843																								
04/07/09 TUESDAY	12 1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	DAILY TOTAL												
00-15	12	1	2	3	4	5	6	7	8	9	10	11	12	DAILY TOTAL												
15-30	1	2	3	4	5	6	7	8	9	10	11	12	DAILY TOTAL													
30-45	1	2	3	4	5	6	7	8	9	10	11	12	DAILY TOTAL													
45-00	1	2	3	4	5	6	7	8	9	10	11	12	DAILY TOTAL													
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	DAILY TOTAL													
TOT	81	43	69	110	342	736	932	1013	863	809	716	741	830	829	827	786	742	755	686	591	463	391	219	117	13691	
	AM PEAK HOUR 0700 TO 0800 VOLUME 1013	PM PEAK HOUR 0145 TO 0245 VOLUME 856																								
04/08/09 WEDNESDAY	12 1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	DAILY TOTAL		
00-15	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	DAILY TOTAL
15-30	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	DAILY TOTAL	
30-45	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	DAILY TOTAL	
45-00	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	DAILY TOTAL	
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	DAILY TOTAL	
TOT	66	50	51	113	367	704	907	992	871	782	769	839	855	819	816	759	742	770	763	567	546	423	243	146	13960	
	AM PEAK HOUR 0645 TO 0745 VOLUME 1005	PM PEAK HOUR 1215 TO 0115 VOLUME 882																								
	AM TOTAL 6511	PM TOTAL 7449																								

DOT-RNB515A-B

## STATE OF WASHINGTON - DEPARTMENT OF TRANSPORTATION

## TRIP SYSTEM

## 15 MINUTE TRAFFIC COUNT SUMMARY

DATE 07/10/09  
TIME 06:43:55  
PAGE 104

SR 528	MP 000.36	OFF SYSTEM ID.	COUNTER NUMBER	HPMS	LEG 1	DIRECTION OF TRAFFIC WESTBOUND												LANE ALL	OF							
COUNT IDENTIFIER					DESCRIPTION: ON SR 528 W/O SR 529/STATE AVE																					
04/09/09 THURSDAY					-- --												PM HOURS									
12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	DAILY TOTAL	
1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12			
00-15	17	11	49	13	40	150	197	228	193	215	162	183	210	197	206	166	195	218	188	154	136	121	91	45		
15-30	18	17	14	21	90	141	230	266	209	179	191	167	211	237	205	190	203	188	199	150	156	119	62	42		
30-45	16	22	22	36	128	188	241	259	221	201	187	181	221	215	218	222	192	223	203	141	133	103	63	39		
45-00	21	14	12	32	118	202	272	270	222	147	174	235	218	211	186	197	206	179	177	130	117	104	59	33		
HOUR																										
TOT	72	64	97	102	376	681	940	1023	845	742	714	766	860	860	815	775	796	808	767	575	542	447	275	159	14101	
									AM PEAK HOUR 0645 TO 0745 VOLUME							1025									AM TOTAL 6422	
									PM PEAK HOUR 1230 TO 0130 VOLUME							873										PM TOTAL 7679
04/10/09 FRIDAY					-- --												PM HOURS									
12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	DAILY TOTAL	
1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12			
00-15	29	11	8	20	44	119	166																			
15-30	20	24	14	29	77	149	187																			
30-45	20	18	23	29	107	169	225																			
45-00	18	17	19	18	100	196	225																			
HOUR																										
TOT	87	70	64	96	328	633	803																		2081	

04/10/09 FRIDAY				-- --												PM HOURS						DAILY TOTAL			
12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12		
00-15	29	11	8	20	44	119	166																		
15-30	20	24	14	29	77	149	187																		
30-45	20	18	23	29	107	169	225																		
45-00	18	17	19	18	100	196	225																		
HOUR																									
TOT	87	70	64	96	328	633	803																		2081

04/06/09 THRU 04/10/09  
TOTAL HOURS FOR COUNT 91AM PEAK HOUR 0600 TO 0700 VOLUME 803  
PM PEAK HOUR 0000 TO 0000 VOLUME 0AM TOTAL 2081  
PM TOTAL 03 DAYS  
AVG WEEKDAY VOL 13917 X SEASONAL ADJ. FACTOR 0.9200 = 12804 X AXLE CORR FACTOR 0.9461 = ESTIMATED AVG DAILY TRAFFIC 12114

DOT-RNB515A-B

STATE OF WASHINGTON - DEPARTMENT OF TRANSPORTATION  
 TRIP SYSTEM  
 15 MINUTE TRAFFIC COUNT SUMMARY

DATE 07/10/09  
 TIME 06:43:55  
 PAGE 105

SR 528	MP 000.36	OFF SYSTEM ID.	COUNTER NUMBER	HPMS	LEG 1	DIRECTION OF TRAFFIC	EASTBOUND	LANE ALL	OF
COUNT IDENTIFIER	HPMS	COUNTER NUMBER	152292	DESCRIPTION: ON SR 528 W/O SR 529/STATE AVE					
04/06/09 MONDAY		AM HOURS							
12 1	2	3	4	5	6	7	8	9	10
12 2	3	4	5	6	7	8	9	10	11
00-15									
15-30									
30-45									
45-00									
HOUR									
TOT									

04/07/09 TUESDAY		AM HOURS							
12 1	2	3	4	5	6	7	8	9	10
12 2	3	4	5	6	7	8	9	10	11
00-15									
15-30									
30-45									
45-00									
HOUR									
TOT									

04/08/09 WEDNESDAY		AM HOURS							
12 1	2	3	4	5	6	7	8	9	10
12 2	3	4	5	6	7	8	9	10	11
00-15									
15-30									
30-45									
45-00									
HOUR									
TOT									

STATE OF WASHINGTON - DEPARTMENT OF TRANSPORTATION  
TRIP SYSTEM  
15 MINUTE TRAFFIC COUNT SUMMARY

DATE 07/10/09  
TIME 06:43:55  
PAGE 106

### 15 MINUTE TRAFFIC COUNT SUMMARY

SR 528	MP 000.36	OFF SYSTEM ID.	COUNT NUMBER	152292	LEG 1	DIRECTION OF TRAFFIC EASTBOUND										LANE ALL OF					
ACCOUNT IDENTIFIER	HPHS	COUNTER NUMBER		DESCRIPTION: ON SR 528 W/O SR 529/STATE AVE																	
						AM HOURS				PM HOURS											
				1	2	3	4	5	6	7	8	9	10	11	12	1	2	3			
04/09/09 THURSDAY				12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3		
				1	2	3	4	5	6	7	8	9	10	11	12	1	2	3			
				60	27	18	8	23	22	51	110	94	162	145	154	204	213	235			
00-15				51	24	19	12	11	31	74	148	140	112	147	200	216	236	292			
15-30				36	25	19	10	20	38	91	115	142	133	159	173	220	198	292			
30-45				39	20	28	17	27	47	84	181	138	140	178	196	184	233	303			
45-00				---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			
TOTAL				186	96	84	47	81	138	300	554	514	547	629	723	824	880	1122			

AM PEAK	HOUR	1100 TO	1200	VOLUME	723	AM TOTAL	3899
PM PEAK	HOUR	0445 TO	0545	VOLUME	1276	PM TOTAL	10334

[illegible]

AM PEAK	HOUR	0600 TO 0700	VOLUME	318	AM TOTAL	1001
PM PEAK	HOUR	0000 TO 0000	VOLUME	0	PM TOTAL	0

04/06/09	THRU	04/10/09	91
TOTAL HOURS FOR COUNT			

3 DAYS	FACTOR GROUP GR-02	FACTOR GROUP GR-A2
AVG WEEKDAY VOL	14125 X SEASONAL ADJ. FACTOR 0.9700 =	12995 X AXLE CORR FACTOR 0.9461
		= ESTIMATED AVG DAILY TRAFFIC
		12295

DOT-RN8515A-B

## STATE OF WASHINGTON - DEPARTMENT OF TRANSPORTATION

## TRIP SYSTEM

## 15 MINUTE TRAFFIC COUNT SUMMARY

DATE 07/10/09  
TIME 06:43:55  
PAGE 107

SR 528	HP 000.36	OFF SYSTEM ID.	LEG 1	DIRECTION OF TRAFFIC	BOTH WAYS	LANE ALL	OF
COUNT IDENTIFIER	HPMS	COUNTER NUMBER	152292	DESCRIPTION: ON SR 528 W/O SR 529/STATE AVE			
04/06/09 MONDAY		AM HOURS		PM HOURS			
12 1	2	3	4	5	6	7	8
12 2	3	4	5	6	7	8	9
12 3	4	5	6	7	8	9	10
12 4	5	6	7	8	9	10	11
12 5	6	7	8	9	10	11	12
12 6	7	8	9	10	11	12	TOTAL
00-15							
15-30							
30-45							
45-00							
TOT							
04/07/09 TUESDAY		AM HOURS		PM HOURS			
12 1	2	3	4	5	6	7	8
12 2	3	4	5	6	7	8	9
12 3	4	5	6	7	8	9	10
12 4	5	6	7	8	9	10	11
12 5	6	7	8	9	10	11	12
12 6	7	8	9	10	11	12	TOTAL
00-15							
15-30							
30-45							
45-00							
TOT							
04/08/09 WEDNESDAY		AM HOURS		PM HOURS			
12 1	2	3	4	5	6	7	8
12 2	3	4	5	6	7	8	9
12 3	4	5	6	7	8	9	10
12 4	5	6	7	8	9	10	11
12 5	6	7	8	9	10	11	12
12 6	7	8	9	10	11	12	TOTAL
00-15							
15-30							
30-45							
45-00							
TOT							

DOT-RNB515A-B

STATE OF WASHINGTON - DEPARTMENT OF TRANSPORTATION  
 TRIP SYSTEM  
 15 MINUTE TRAFFIC COUNT SUMMARY

DATE 07/10/09  
 TIME 06:43:55  
 PAGE 108

SR 528	MP 000.36	OFF SYSTEM ID.	COUNTER NUMBER	LEG 1	DIRECTION OF TRAFFIC	BOTH WAYS	LANE ALL	OF
COUNT IDENTIFIER	HPMS		152292		DESCRIPTION: ON SR 528 W/O SR 529/STATE AVE			
04/09/09 THURSDAY		AM HOURS						
12 1	2	3	4	5	6	7	8	9
1 2	3	4	5	6	7	8	9	10
11 12	1	2	3	4	5	6	7	8
00-15	77	38	67	21	63	172	248	338
15-30	69	41	33	33	101	172	304	414
30-45	52	47	41	46	148	226	332	374
45-00	60	34	40	49	145	249	356	451
HOUR	258	160	181	149	457	819	1240	1577
TOT	258	160	181	149	457	819	1240	1577

AM PEAK HOUR 0700 TO 0800 VOLUME 1577  
 PM PEAK HOUR 0445 TO 0545 VOLUME 2111

04/10/09 FRIDAY	AM HOURS	PM HOURS	LANE ALL	OF
12 1	2	3	4	5
1 2	3	4	5	6
11 12	1	2	3	4
00-15	77	48	30	41
15-30	64	55	33	40
30-45	60	55	46	43
45-00	62	56	48	33
HOUR	263	214	157	157
TOT	263	214	157	157

AM PEAK HOUR 0600 TO 0700 VOLUME 1121  
 PM PEAK HOUR 0000 TO 0000 VOLUME 0

04/06/09 THRU 04/10/09  
 TOTAL HOURS FOR COUNT 91

3 DAYS  
 AVG WEEKDAY VOL 28042 X SEASONAL ADJ. FACTOR 0.9200 = 25799 X AXLE CORR FACTOR 0.9461 = ESTIMATED AVG DAILY TRAFFIC 24408  
 PEAK HOUR PERCENTAGES: K = 7.53 D = 60.45  
 PEAK HOUR LOCATION: VOLUME = 2111 DATE: 04/09/09 TIME: 04:45 PM

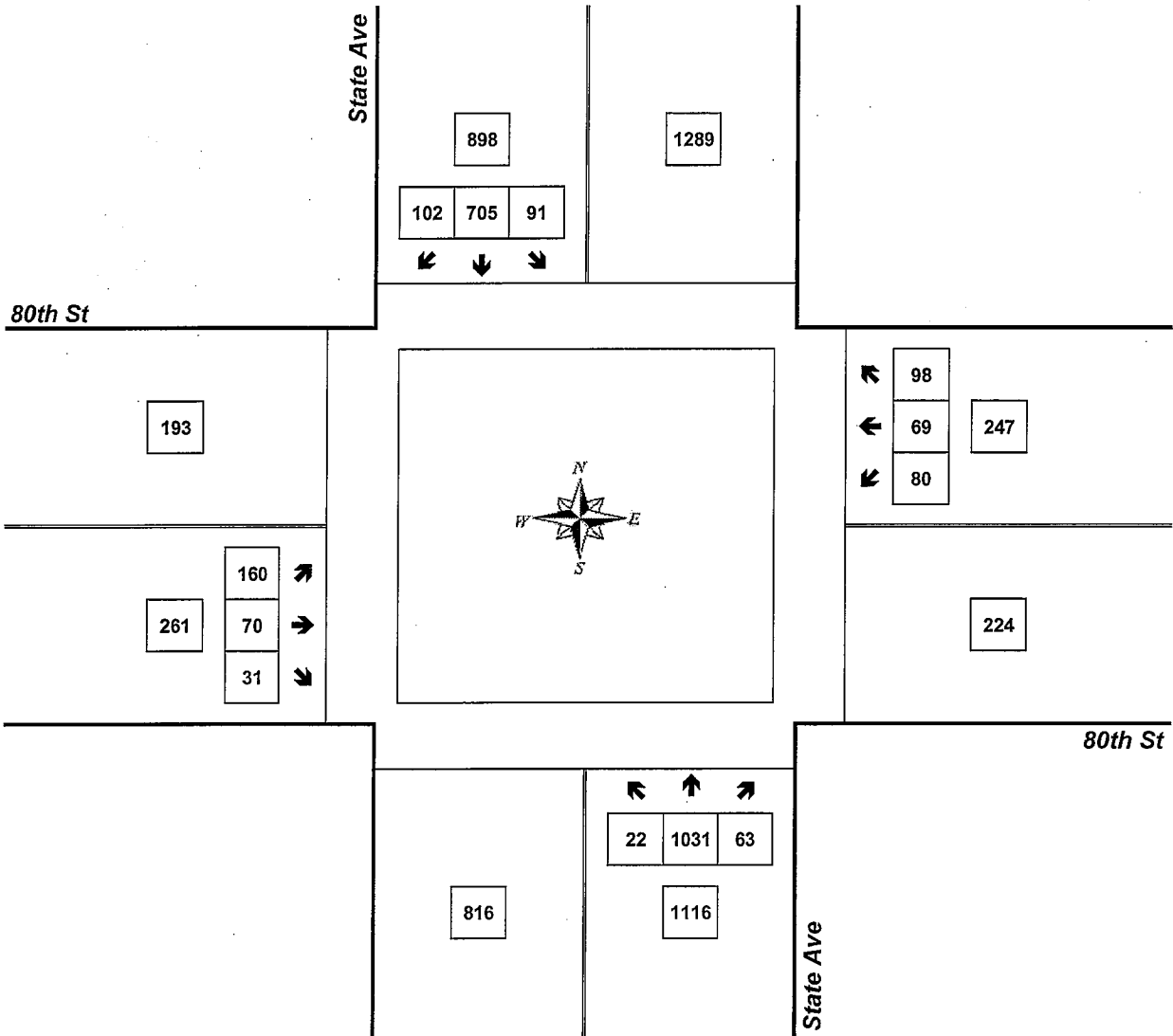
# Peak Hour Summary



Mark Skaggs  
(206) 251-0300

## State Ave & 80th St

4:00 PM to 5:00 PM  
Tuesday, November 06, 2007



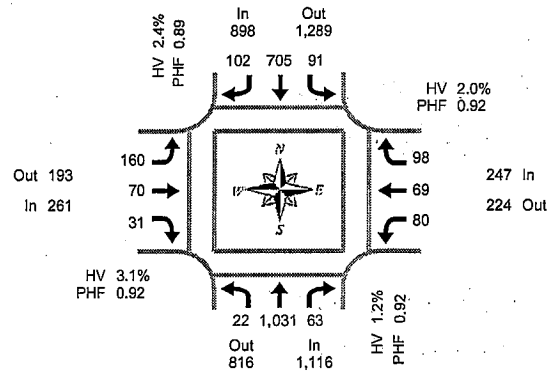
Approach	PHF	HV%	Volume
EB	0.92	3.1%	261
WB	0.92	2.0%	247
NB	0.92	1.2%	1,116
SB	0.89	2.4%	898
Intersection	0.93	1.9%	2,522

Count Period: 4:00 PM to 6:00 PM

## Total Vehicle Summary



Mark Skaggs  
(206) 251-0300



## State Ave & 80th St

Tuesday, November 06, 2007

4:00 PM to 6:00 PM

**Peak Hour Summary**  
4:00 PM to 5:00 PM

### 15-Minute Interval Summary

4:00 PM to 6:00 PM

Interval Start Time	Northbound State Ave				Southbound State Ave				Eastbound 80th St				Westbound 80th St				Interval Total
	L	T	R	HV	L	T	R	HV	L	T	R	HV	L	T	R	HV	
4:00 PM	7	273	23	3	33	187	21	8	39	21	8	3	22	19	26	0	679
4:15 PM	2	269	16	2	23	197	32	5	35	9	10	0	13	9	28	2	643
4:30 PM	5	248	10	6	20	149	25	5	40	24	4	4	26	17	22	1	590
4:45 PM	8	241	14	2	15	172	24	4	46	16	9	1	19	24	22	2	610
5:00 PM	4	289	18	3	18	173	20	2	31	10	3	0	18	9	28	0	621
5:15 PM	6	256	13	0	14	165	20	4	29	15	0	0	12	5	13	1	548
5:30 PM	4	279	16	2	18	170	20	4	34	13	3	1	7	10	12	0	586
5:45 PM	3	242	14	1	17	164	19	0	34	16	1	1	9	7	17	0	543
Total Survey	39	2,097	124	19	158	1,377	181	32	288	124	38	10	126	100	168	6	4,820

### Peak Hour Summary

4:00 PM to 5:00 PM

By Approach	Northbound State Ave				Southbound State Ave				Eastbound 80th St				Westbound 80th St				Total
	In	Out	Total	HV	In	Out	Total	HV	In	Out	Total	HV	In	Out	Total	HV	
Volume	1,116	816	1,932	13	898	1,289	2,187	22	261	193	454	8	247	224	471	5	2,522
%HV		1.2%				2.4%				3.1%				2.0%			1.9%
PHF		0.92				0.89				0.92				0.92			0.93

By Movement	Northbound State Ave				Southbound State Ave				Eastbound 80th St				Westbound 80th St				Total
	L	T	R	Total	L	T	R	Total	L	T	R	Total	L	T	R	Total	
Volume	22	1,031	63	1,116	91	705	102	898	160	70	31	261	80	69	98	247	2,522
PHF	0.69	0.94	0.68	0.92	0.69	0.89	0.80	0.89	0.87	0.73	0.78	0.92	0.77	0.72	0.88	0.92	0.93

### Rolling Hour Summary

4:00 PM to 6:00 PM

Interval Start Time	Northbound State Ave				Southbound State Ave				Eastbound 80th St				Westbound 80th St				Interval Total
	L	T	R	HV	L	T	R	HV	L	T	R	HV	L	T	R	HV	
4:00 PM	22	1,031	63	13	91	705	102	22	160	70	31	8	80	69	98	5	2,522
4:15 PM	19	1,047	58	13	76	691	101	16	152	59	26	5	76	59	100	5	2,464
4:30 PM	23	1,034	55	11	67	659	89	15	146	65	16	5	75	55	85	4	2,369
4:45 PM	22	1,065	61	7	65	680	84	14	140	54	15	2	56	48	75	3	2,365
5:00 PM	17	1,066	61	6	67	672	79	10	128	54	7	2	46	31	70	1	2,298

Start Time	Northbound					Southbound			
	Thru	Right	Ped	Left		Thru	Right	Ped	Left
15:45	93	103	14			11	81	94	0
16:00	80	105	8			6	66	75	
16:15	86	104	9	1		20	79	69	
16:30	79	100	10	2		6	63	72	2
16:45	64	68	16			5	52	71	0
17:00	88	76	9	0		5	7	63	
17:15	76	97	13			10	50	56	
17:30	87	84	13			6	67	72	
Max Hour	338	412	41	3		43	289	310	2

Westbound				Eastbound				Total	
Thru	Right	Ped	Left	Thru	Right	Ped			
25	14			98	56	86	1	704	
32	5			105	40	97	1	642	
23	15		1	100	48	107	1	685	
22	14			92	42	84		600	2631
25	17		0	112	68	106		619	2546
31	11			97	44	79	0	525	2429
27	10		0	116	32	103	1	604	2348
22	16		0	86	45	94	1	610	2358
102	48		1	395	186	374	3		2631

Estimate of 116th ADT

17050

# **Accident Data**

# HIGHWAY-RAIL GRADE CROSSING ACCIDENT/INCIDENT REPORT

DEPARTMENT OF TRANSPORTATION  
FEDERAL RAILROAD ADMINISTRATION (FRA)

OMB Approval No. 2130-0500

<b>Name Of</b>				<b>Alphabetic Code</b>		<b>RR Accident/Incident No.</b>	
1. Reporting Railroad <b>Amtrak [ATK]</b>				1a. <b>ATK</b>		1b. <b>110513</b>	
2. Other Railroad Involved in Train Accident/Incident				2a.		2b.	
3. Railroad Responsible for Track Maintenance <b>BNSF Rwy Co. [BNSF]</b>				3a. <b>BNSF</b>		3b. <b>XXX</b>	
4. U.S. DOT-AAR Grade Crossing ID No. <b>084650M</b>		5. Date of Accident/Incident <b>12/15/08</b>		6. Time of Accident/Incident <b>09:40 AM</b>			
7. Nearest Railroad Station <b>MOUNT VERNON</b>		8. Division <b>PAC</b>		9. County <b>SNOHOMISH</b>		10. State Code Abbr. <b>53</b> <b>WA</b>	
11. City (if in a city) <b>MARYSVILLE</b>		12. Highway Name or No. <b>CO67240; 88TH ST.N.E</b>				<input checked="" type="checkbox"/> Public <input type="checkbox"/> Private	
<b>Highway User Involved</b>				<b>Rail Equipment Involved</b>			
13. Type A. Auto D. Pick-up truck G. School Bus K. Pedestrian B. Truck E. Van H. Motorcycle M. Other (specify)		Code <b>A</b>		17. Equipment 1. Train (units pulling) 5. Car(s) (standing) 2. Train (units pushing) 6. Light loco(s) (moving) 3. Train (standing) 7. Light loco(s) (standing)		8. Other (specify) A. Train pulling- RCL B. Train pushing- RCL C. Train standing- RCL	
14. Vehicle Speed (est. mph at impact) <b>25</b>		15. Direction (geographical) 1. North 2. South 3. East 4. West		Code <b>4</b>		18. Position of Car Unit in Train <b>1</b>	
16. Position 1. Stalled on crossing 3. Moving over crossing 2. Stopped on Crossing 4. Trapped		Code <b>3</b>		19. Circumstance 1. Rail equipment struck highway user 2. Rail equipment struck by highway user		Code <b>1</b>	
20a. Was the highway user and/or rail equipment involved in the impact transporting hazardous materials? 1. Highway User 2. Rail Equipment 3. Both 4. Neither		Code <b>4</b>		20b. Was there a hazardous materials release by 1. Highway User 2. Rail Equipment 3. Both 4. Neither		Code <b>4</b>	
20c. State the name and quantity of the hazardous materials released, if any							
21. Temperature (specify if minus) <b>25 °F</b>		22. Visibility (single entry) 1. Dawn 2. Day 3. Dusk 4. Dark		Code <b>2</b>		23. Weather (single entry) 1. Clear 2. Cloudy 3. Rain 4. Fog 5. Sleet 6. Snow	
24. Type of Equipment Consist 1. Freight train 4. Work train 7. Yard/Switching (single entry) 2. Passenger train 5. Single car 8. Light loco(s) 3. Commuter train 6. Cut of cars 9. Main./inspect. car		A. Spec. MoW Equip Code <b>2</b>		25. Track Type Used by Rail Equipment Involved 1. Main 2. Yard 3. Siding 4. Industry		Code <b>1</b>	
26. Track Number or Name <b>SINGLE MAIN TRACK</b>		27. FRA Track Class <b>3</b>		28. Number of Locomotive Units <b>1</b>		29. Number of Cars <b>13</b>	
30. Consist Speed (Recorded if available) R. Recorded E. Estimated <b>50 mph</b>		Code <b>R</b>		31. Time Table Direction 1. North 2. South 3. East 4. West		Code <b>2</b>	
32. Type of Crossing 1. Gates 4. Wig wags 7. Crossbucks 10. Flagged by crew 2. Cantilever FLS 5. Hwy. traffic signals 8. Stop signs 11. Other (specify) Warning 3. Standard FLS 6. Audible 9. Watchman 12. None		Code(s) <b>01 02 06</b>		33. Signaled Crossing Warning		34. Whistle Ban 1. Yes 2. No 3. Unknown	
Code(s) <b>01 02 06</b>		35. Location of Warning 1. Both Sides 2. Side of Vehicle Approach 3. Opposite Side of Vehicle Approach		Code <b>1</b>		36. Crossing Warning Interconnected with Highway Signals 1. Yes 2. No 3. Unknown	
Code <b>1</b>		37. Crossing Illuminated by Street Lights or Special Lights 1. Yes 2. No 3. Unknown		Code <b>2</b>		38. Driver's Age 39. Driver's Gender 1. Male 2. Female	
Code <b>1</b>		40. Driver Drove Behind or in Front of Train and Struck or was Struck by Second Train 1. Yes 2. No 3. Unknown		Code <b>2</b>		41. Driver 1. Drove around or thru the gate 4. Stopped on crossing 2. Stopped and then proceeded 5. Other (specify) 3. Did not stop	
Code <b>1</b>		42. Driver Passed Standing Highway Vehicle 1. Yes 2. No 3. Unknown		Code <b>2</b>		43. View of Track Obscured by (primary obstruction) 1. Permanent Structure 3. Passing Train 5. Vegetation 7. Other (specify) 2. Standing railroad equipment 4. Topography 6. Highway Vehicles 8. Not Obstructed	
Code <b>8</b>		44. Driver was 1. Killed 2. Injured 3. Uninjured		Code <b>2</b>		45. Was Driver in the Vehicle? 1. Yes 2. No	
Code <b>1</b>		46. Highway-Rail Crossing Users 0 1		47. Highway Vehicle Property Damage (est. dollar damage) <b>\$3,000</b>		48. Total Number of Highway-Rail Crossing Users (include driver) <b>1</b>	
49. Railroad Employees 0 0		50. Total Number of People on Train (include passengers and crew) <b>100</b>		51. Is a Rail Equipment Accident / Incident Report Being Filed 1. Yes 2. No		Code <b>2</b>	
52. Passengers on Train 0 0		53a. Special Study Block		53b. Special Study Block			
54. Narrative Description <b>TRAIN 513 OPERATING WITH LOCOMOTIVE E/466 AND 13 CARS STRUCK AN AUTOMOBILE AT MP 40.34, 88TH STREET NE CROSSING</b>							
55. Typed Name and Title		56. Signature				57. Date	

# HIGHWAY-RAIL GRADE CROSSING ACCIDENT/INCIDENT REPORT

DEPARTMENT OF TRANSPORTATION  
FEDERAL RAILROAD ADMINISTRATION (FRA)

OMB Approval No. 2130-0500

Name Of				Alphabetic Code		RR Accident/Incident No.	
1. Reporting Railroad <b>Amtrak [ATK]</b>				1a. <b>ATK</b>		1b. <b>099353</b>	
2. Other Railroad Involved in Train Accident/Incident				2a.		2b.	
3. Railroad Responsible for Track Maintenance <b>BNSF Rwy Co. [BNSF]</b>				3a. <b>BNSF</b>		3b. <b>XXX</b>	
4. U.S. DOT-AAR Grade Crossing ID No. <b>084654P</b>		5. Date of Accident/Incident <b>12/29/05</b>		6. Time of Accident/Incident <b>11:22 AM</b>			
7. Nearest Railroad Station <b>EVERETT</b>		8. Division <b>PAC</b>		9. County <b>SNOHOMISH</b>		10. State Abbr. <b>53</b> Code <b>WA</b>	
11. City (if in a city)		12. Highway Name or No. <b>CO68400; 116TH ST. N</b>		<input checked="" type="checkbox"/> Public <input type="checkbox"/> Private			
Highway User Involved				Rail Equipment Involved			
13. Type C. Truck-trailer F. Bus J. Other Motor Vehicle Code A. Auto D. Pick-up truck G. School Bus K. Pedestrian B. Truck E. Van H. Motorcycle M. Other (specify) <b>A</b>				17. Equipment 4. Car(s) (moving) 8. Other (specify) Code 1. Train (units pulling) 5. Car(s) (standing) A. Train pulling- RCL 2. Train (units pushing) 6. Light loco(s) (moving) B. Train pushing- RCL 3. Train (standing) 7. Light loco(s) (standing) C. Train standing- RCL <b>1</b>			
14. Vehicle Speed (est. mph at impact) <b>10</b>		15. Direction (geographical) 1. North 2. South 3. East 4. West <b>3</b>		18. Position of Car Unit in Train <b>1</b>			
16. Position 1. Stalled on crossing 3. Moving over crossing 2. Stopped on Crossing 4. Trapped <b>3</b>		19. Circumstance 1. Rail equipment struck highway user 2. Rail equipment struck by highway user <b>2</b>					
20a. Was the highway user and/or rail equipment involved in the impact transporting hazardous materials? 1. Highway User 2. Rail Equipment 3. Both 4. Neither <b>4</b>		20b. Was there a hazardous materials release by 1. Highway User 2. Rail Equipment 3. Both 4. Neither <b>4</b>					
20c. State the name and quantity of the hazardous materials released, if any							
21. Temperature (specify if minus) <b>44 °F</b>		22. Visibility (single entry) Code 1. Dawn 2. Day 3. Dusk 4. Dark <b>2</b>		23. Weather (single entry) Code 1. Clear 2. Cloudy 3. Rain 4. Fog 5. Sleet 6. Snow <b>1</b>			
24. Type of Equipment Consist 1. Freight train 4. Work train 7. Yard/Switching (single entry) 2. Passenger train 5. Single car 8. Light loco(s) 3. Commuter train 6. Cut of cars 9. Main./Inspect. car <b>2</b>		25. Track Type Used by Rail Equipment Involved Code 1. Main 2. Yard 3. Siding 4. Industry <b>1</b>		26. Track Number or Name <b>MAIN</b>			
27. FRA Track Class <b>4</b>		28. Number of Locomotive Units <b>1</b>		29. Number of Cars <b>13</b>		30. Consist Speed (Recorded if available) Code R. Recorded <b>79</b> mph <b>R</b> E. Estimated	
31. Time Table Direction Code 1. North 2. South 3. East 4. West <b>2</b>		32. Type of Crossing 1. Gates 4. Wig wags 7. Crossbucks 10. Flagged by crew 2. Cantilever FLS 5. Hwy. traffic signals 8. Stop signs 11. Other (specify) Warning 3. Standard FLS 6. Audible 9. Watchman 12. None		33. Signaled Crossing Warning		34. Whistle Ban Code 1. Yes 2. No 3. Unknown <b>2</b>	
Code(s) <b>01</b>		Allgd. warn > 60 sec (2);					
35. Location of Warning Code 1. Both Sides 2. Side of Vehicle Approach 3. Opposite Side of Vehicle Approach <b>1</b>		36. Crossing Warning Interconnected with Highway Signals Code 1. Yes 2. No 3. Unknown <b>1</b>		37. Crossing Illuminated by Street Lights or Special Lights Code 1. Yes 2. No 3. Unknown <b>3</b>			
38. Driver's Age <b>10</b>		39. Driver's Gender Code 1. Male <b>1</b> 2. Female		40. Driver Drove Behind or in Front of Train and Struck or was Struck by Second Train Code 1. Yes 2. No 3. Unknown <b>2</b>		41. Driver Code 1. Drove around or thru the gate 4. Stopped on crossing 2. Stopped and then proceeded 5. Other (specify) 3. Did not stop <b>1</b>	
42. Driver Passed Standing Highway Vehicle Code 1. Yes 2. No 3. Unknown <b>2</b>		43. View of Track Obscured by (primary obstruction) Code 1. Permanent Structure 3. Passing Train 5. Vegetation 7. Other (specify) 2. Standing railroad equipment 4. Topography 6. Highway Vehicles 8. Not Obstructed <b>8</b>					
Casualties to:		Killed		Injured		44. Driver was Code 1. Killed 2. Injured 3. Uninjured <b>2</b>	
46. Highway-Rail Crossing Users <b>0</b>		<b>1</b>		47. Highway Vehicle Property Damage (est. dollar damage) <b>\$6,000</b>		45. Was Driver in the Vehicle? Code 1. Yes 2. No <b>1</b>	
49. Railroad Employees <b>0</b>		<b>0</b>		50. Total Number of People on Train (include passengers and crew) <b>130</b>		48. Total Number of Highway-Rail Crossing Users (include driver) <b>1</b>	
52. Passengers on Train <b>0</b>		<b>0</b>		51. Is a Rail Equipment Accident / Incident Report Being Filed Code 1. Yes 2. No <b>1</b>			
53a. Special Study Block				53b. Special Study Block			
54. Narrative Description  <b>TRAIN NO.#513 OPERATING WITH ENGINE 467 AND 13 CARS, WAS STRUCK BY AN AUTOMOBILE AT MP42.04, 116TH STREET CROSSING.</b>							
55. Typed Name and Title		56. Signature				57. Date	

# HIGHWAY-RAIL GRADE CROSSING ACCIDENT/INCIDENT REPORT

DEPARTMENT OF TRANSPORTATION  
FEDERAL RAILROAD ADMINISTRATION (FRA)

OMB Approval No. 2130-0500

<b>Name Of</b>				<b>Alphabetic Code</b>		<b>RR Accident/Incident No.</b>	
1. Reporting Railroad <b>BNSF Rwy Co. [BNSF]</b>				1a. <b>BNSF</b>		1b. <b>NW0404203</b>	
2. Other Railroad Involved in Train Accident/Incident				2a.		2b.	
3. Railroad Responsible for Track Maintenance <b>BNSF Rwy Co. [BNSF]</b>				3a. <b>BNSF</b>		3b. <b>NW0404203</b>	
4. U.S. DOT-AAR Grade Crossing ID No. <b>084640G</b>		5. Date of Accident/Incident <b>04/30/04</b>		6. Time of Accident/Incident <b>12:20 PM</b>			
7. Nearest Railroad Station <b>MARYSVILLE</b>		8. Division <b>NORTHWEST</b>		9. County <b>SNOHOMISH</b>		10. State Abbr. <b>53</b> Code <b>WA</b>	
11. City (If in a city) <b>MARYSVILLE</b>		12. Highway Name or No. <b>SR528/4TH STREET</b>				<input checked="" type="checkbox"/> Public <input type="checkbox"/> Private	
Highway User Involved				Rail Equipment Involved			
13. Type C. Truck-trailer F. Bus J. Other Motor Vehicle Code A. Auto D. Pick-up truck G. School Bus K. Pedestrian B. Truck E. Van H. Motorcycle M. Other (specify) <b>A</b>				17. Equipment 4. Car(s) (moving) 8. Other (specify) Code 1. Train (units pulling) 5. Car(s) (standing) A. Train pulling- RCL 2. Train (units pushing) 6. Light loco(s) (moving) B. Train pushing- RCL 3. Train (standing) 7. Light loco(s) (standing) C. Train standing- RCL <b>1</b>			
14. Vehicle Speed (est. mph at impact)		15. Direction (geographical) 1. North 2. South 3. East 4. West <b>4</b>		18. Position of Car Unit in Train <b>1</b>			
16. Position 1. Stalled on crossing 3. Moving over crossing 2. Stopped on Crossing 4. Trapped <b>4</b>		Code <b>4</b>		19. Circumstance 1. Rail equipment struck highway user 2. Rail equipment struck by highway user <b>1</b>			
20a. Was the highway user and/or rail equipment involved in the impact transporting hazardous materials? 1. Highway User 2. Rail Equipment 3. Both 4. Neither <b>2</b>		Code <b>2</b>		20b. Was there a hazardous materials release by 1. Highway User 2. Rail Equipment 3. Both 4. Neither <b>4</b>			
				20c. State the name and quantity of the hazardous materials released, if any			
21. Temperature (specify if minus) <b>68 °F</b>		22. Visibility (single entry) Code 1. Dawn 2. Day 3. Dusk 4. Dark <b>2</b>		23. Weather (single entry) Code 1. Clear 2. Cloudy 3. Rain 4. Fog 5. Sleet 6. Snow <b>2</b>			
24. Type of Equipment Consist 1. Freight train 4. Work train 7. Yard/Switching (single entry) 2. Passenger train 5. Single car 8. Light loco(s) 3. Commuter train 6. Cut of cars 9. Main./inspect. car <b>1</b>		A. Spec. MoW Equip Code <b>1</b>		25. Track Type Used by Rail Equipment Involved 1. Main 2. Yard 3. Siding 4. Industry <b>1</b>		26. Track Number or Name <b>SINGLE MAIN</b>	
27. FRA Track Class <b>2</b>		28. Number of Locomotive Units <b>2</b>		29. Number of Cars <b>77</b>		30. Consist Speed (Recorded if available) Code R. Recorded <b>10</b> mph <b>R</b>	
31. Time Table Direction Code 1. North 2. South 3. East 4. West <b>2</b>		32. Type of Crossing 1. Gates 4. Wlg wags 7. Crossbucks 10. Flagged by crew 2. Cantilever FLS 5. Hwy. traffic signals 8. Stop signs 11. Other (specify) Warning 3. Standard FLS 6. Audible 9. Watchman 12. None		33. Signaled Crossing Warning		34. Whistle Ban 1. Yes 2. No 3. Unknown <b>2</b>	
Code(s) <b>01 02</b>				20 sec warn min (1);			
35. Location of Warning Code 1. Both Sides 2. Side of Vehicle Approach 3. Opposite Side of Vehicle Approach <b>1</b>		36. Crossing Warning Interconnected with Highway Signals Code 1. Yes 2. No 3. Unknown <b>3</b>		37. Crossing Illuminated by Street Lights or Special Lights Code 1. Yes 2. No 3. Unknown <b>1</b>			
38. Driver's Age <b>34</b>		39. Driver's Gender Code 1. Male <b>1</b> 2. Female		40. Driver Drove Behind or in Front of Train and Struck or was Struck by Second Train Code 1. Yes 2. No 3. Unknown <b>2</b>		41. Driver Code 1. Drove around or thru the gate 4. Stopped on crossing 2. Stopped and then proceeded 5. Other (specify) 3. Did not stop <b>4</b>	
42. Driver Passed Standing Highway Vehicle Code 1. Yes 2. No 3. Unknown <b>2</b>		43. View of Track Obscured by (primary obstruction) Code 1. Permanent Structure 3. Passing Train 5. Vegetation 7. Other (specify) 2. Standing railroad equipment 4. Topography 6. Highway Vehicles 8. Not Obstructed <b>8</b>					
Casualties to:		Killed Injured		44. Driver was Code 1. Killed 2. Injured 3. Uninjured <b>3</b>		45. Was Driver in the Vehicle? Code 1. Yes 2. No <b>1</b>	
46. Highway-Rail Crossing Users				47. Highway Vehicle Property Damage (est. dollar damage) <b>\$5,000</b>		48. Total Number of Highway-Rail Crossing Users (include driver) <b>1</b>	
49. Railroad Employees				50. Total Number of People on Train (include passengers and crew) <b>3</b>		51. Is a Rail Equipment Accident / Incident Report Being Filed Code 1. Yes 2. No <b>2</b>	
52. Passengers on Train							
53a. Special Study Block				53b. Special Study Block			
54. Narrative Description							
55. Typed Name and Title		56. Signature				57. Date	

REPORTED COLLISIONS INVOLVING TRAINS, RR SIGNS and/or LOCATED AT RR TRACKS THAT OCCURRED ON ALL ROADS STATEWIDE  
1/1/2005 - 10/31/2010 (2010 is preliminary)  
\*As if 1/1/2009 Citizen Reports are no longer being captured (Report # begins with "C" )

COUNTY	CITY	JURISDICTION	COUNTY ROAD NAME	PRIMARY TRAFFICWAY (Refer to column "D" for County Rd name, county 5 digit road log # in this column)	BLOCK NUMBER	INTERSECTING TRAFFICWAY	DIST FROM REF POINT	MI or FT	COMP DIR FROM REF POINT	REFERENCE POINT NAME	CITY AND MISC ONLY SECONDARY TRAFFICWAY 1	CITY AND MISC ONLY SECONDARY TRAFFICWAY 2	MILE POST	A/B	*REPORT NUMBER	DATE	TIME	MOST SEVERE INJURY TYPE	# I N J U R I E S	# F A T A L S	# P E D E S T R I A N S
Snohomish	Marysville	City Street		116		STATE AVE									1972417	3/9/2005	14:13	Unknown	0	0	1
Snohomish	Marysville	City Street		116 ST		RR CROSSING									1918857	1/29/2005	11:25	No Injury	0	0	1
Snohomish	Marysville	City Street		116 ST		SMOKEY PT BLVD									2445734	7/27/2006	11:18	No Injury	0	0	1
Snohomish	Marysville	City Street		116 ST		STATE AVE									2095437	11/11/2005	10:45	No Injury	0	0	2
Snohomish	Marysville	City Street		116 ST NE		STATE AV									3182809	4/30/2009	17:42	No Injury	0	0	2
Snohomish	Marysville	City Street		136 AV		STATE AV									2095296	8/23/2005	17:24	No Injury	0	0	1
Snohomish	Marysville	City Street		136 ST		36 DR									2445844	6/4/2007	12:00	No Injury	0	0	2
Snohomish	Marysville	City Street		136 ST		RR TRACKS									2095441	11/16/2005	7:23	No Injury	0	0	2
Snohomish	Marysville	City Street		136 ST NE		RR CROSSING				STATE AVE	STATE AV	36 DR NE			2813415	7/27/2007	20:18	Possible Injury	1	0	2
Snohomish	Marysville	City Street		136 ST NE		STATE AV									2641312	11/2/2006	13:45	No Injury	0	0	2
Snohomish	Marysville	City Street		80 ST	3900	RR CROSSING									2268092	6/27/2006	15:13	No Injury	0	0	1
Snohomish	Marysville	City Street		88 ST	3800	RR CROSSING				STATE AV					2891576	11/17/2007	19:56	Unknown	0	0	1
Snohomish	Marysville	City Street		88 ST		RR CROSSING					STATE AVE	40 DR NE			2813379	2/19/2007	10:59	No Injury	0	0	1
Snohomish	Marysville	City Street		88 ST	3900	RR XING									2445776	9/24/2006	9:42	No Injury	0	0	1
Snohomish	Marysville	City Street		88 ST		STATE AV									2445850	8/1/2007	9:17	No Injury	0	0	1
Snohomish	Marysville	City Street		88 ST NE		STATE AVE									3182152	11/4/2008	11:47	No Injury	0	0	2
Snohomish	Marysville	City Street		88 ST NE		STATE AVE									3148429	8/24/2008	14:18	No Injury	0	0	3
Snohomish	Marysville	City Street		88 ST NE		STATE AVE									E065556	8/31/2010	8:33	No Injury	0	0	1
Snohomish	Marysville	City Street		GROVE	1400	BNRR XING									2813265	5/23/2007	7:14	No Injury	0	0	1
Snohomish	Marysville	City Street		GROVE ST		R AND R CROSSING WEST OF STATE AVE									2955147	11/2/2008	15:13	No Injury	0	0	2
Snohomish	Marysville	City Street		GROVE ST	1400	RR TRACKS									2445608	6/1/2007	11:08	Possible Injury	1	0	3
Snohomish	Marysville	City Street		GROVE ST	1400	RR XING									1972604	3/26/2005	11:34	No Injury	0	0	1
Snohomish	Marysville	City Street		GROVE ST	1300										978683	5/23/2006	13:07	Evident Injury	1	0	1
Snohomish	Marysville	City Street		SMOKEY PT BLVD		136 ST									928667	3/14/2005	14:38	No Injury	0	0	2
Snohomish	Marysville	City Street		STATE AV		116 ST NE									3150669	12/17/2008	9:31	Unknown	0	0	1
Snohomish	Marysville	City Street		STATE AVE		116 TH ST									1360261	2/5/2005	16:28	No Injury	0	0	2
Snohomish	Marysville	City Street		STATE AVE		88 ST									2813180	5/12/2007	13:29	No Injury	0	0	2
Snohomish	Marysville	City Street		STATE AVE		88 ST									2813507	12/15/2008	9:44	Serious Injury	2	0	2
Snohomish	Marysville	City Street		STATE AVE	12100	BURLINGTON RR XING									2095604	6/24/2005	11:17	Serious Injury	1	0	1

REPORTED COLLISIONS INVOLVING TRAINS, RR SIGNS and/or LOCATED AT RR TRACKS THAT OCCURRED ON ALL ROADS STATEWIDE  
1/1/2005 - 10/31/2010 (2010 is preliminary)  
\*As if 1/1/2009 Citizen Reports are no longer being captured (Report # begins with "C" )

VEHICLE 1 TYPE (As of 1/1/2010, a new Vehicle Type code called "Railway Vehicle" became effective.)	VEHICLE 2 TYPE (As of 1/1/2010, a new Vehicle Type code called "Railway Vehicle" became effective.)	JUNCTION RELATIONSHIP	ROADWAY SURFACE CONDITIONS	LIGHTING CONDITIONS	FIRST COLLISION TYPE / OBJECT STRUCK	MV DRIVER CONT CIRC 1 (UNIT 1)	MV DRIVER CONT CIRC 1 (UNIT 2)	VEH 1 COMP DIR FROM	VEH 1 COMP DIR TO	VEH 2 COMP DIR FROM	VEH 2 COMP DIR TO
Truck Tractor		At Intersection and Related	Dry	Daylight	Railway Crossing Gate ✓	None		North	West		
Passenger Car		At Intersection and Related	Dry	Daylight	Railway Crossing Gate ✓	Other		West	East		
Truck Tractor & Semi-Trailer		At Intersection and Related	Dry	Daylight	Signal Pole	Driver Distractions Outside Vehicle		West	South		
Passenger Car	Pickup,Panel Truck or Vanette under 10,000 lb	At Intersection and Related	Wet	Daylight	Same direction -- both turning right -- one stopped -- rear end	Follow Too Closely	None	North	West	North	Vehicle Stopped
Passenger Car	Truck (Flatbad, Van, etc)	At Intersection and Related	Dry	Daylight	Same direction -- both turning left -- both moving -- sideswipe	Improper Turn	None	West	North	West	North
Passenger Car		At Intersection and Related	Dry	Daylight	Railway Crossing Gate ✓	Inattention		West	East		
Truck (Flatbad, Van, etc)	Passenger Car	At Intersection and Related	Dry	Daylight	From same direction - all others	Improper Backing	None	West	Vehicle Backing	West	Vehicle Stopped
Passenger Car	Bus or Motor Stage	At Intersection and Related	Wet	Daylight	From same direction - both going straight - one stopped - rear-end	Exceeding Reas. Safe Speed	None	East	West	East	Vehicle Stopped
Pickup,Panel Truck or Vanette under 10,000 lb	Pickup,Panel Truck or Vanette under 10,000 lb	At Intersection and Related	Dry	Daylight	From same direction - both going straight - one stopped - rear-end	Under Influence of Alcohol	None	West	East	West	Vehicle Stopped
Passenger Car	Pickup,Panel Truck or Vanette under 10,000 lb	At Intersection and Related	Wet	Daylight	From same direction - all others	Improper Backing	None		Vehicle Backing		Vehicle Stopped
Passenger Car		At Intersection and Related	Dry	Daylight	Railway Crossing Gate ✓	Other		West	East		
Pickup,Panel Truck or Vanette under 10,000 lb		At Intersection and Related	Wet	Dark-Street Lights On	Railway Crossing Gate ✓	Other		East	West		
Pickup,Panel Truck or Vanette under 10,000 lb		At Intersection and Related	Wet	Daylight	Railway Crossing Gate ✓	Other		West	Vehicle Backing		
Passenger Car		At Intersection and Related	Dry	Daylight	Railway Crossing Gate ✓	Improper Backing		West	Vehicle Backing		
Truck (Flatbad, Van, etc)		At Intersection and Related	Dry	Daylight	Tree or Stump (stationary)	Disregard Stop Sign - Flashing Red		West	East		
Passenger Car	Bus or Motor Stage	At Intersection and Related	Wet	Daylight	From same direction - both going straight - one stopped - rear-end	Follow Too Closely	None	East	West	East	Vehicle Stopped
Pickup,Panel Truck or Vanette under 10,000 lb	Pickup,Panel Truck or Vanette under 10,000 lb	At Intersection and Related	Wet	Daylight	Entering at angle	Exceeding Reas. Safe Speed	None	South	West	West	Vehicle Stopped
Pickup,Panel Truck or Vanette under 10,000 lb		At Intersection and Related	Wet	Daylight	All other non-collision	Other		West	Vehicle Stopped		
Truck Tractor & Semi-Trailer		At Intersection and Related	Dry	Daylight	Railway Crossing Gate ✓	Other		East	West		
Passenger Car	School Bus	At Intersection and Related	Dry	Daylight	From same direction - both going straight - one stopped - rear-end	Follow Too Closely	None	East	West	East	Vehicle Stopped
Passenger Car	Passenger Car	At Intersection and Not Related	Dry	Daylight	From same direction - both going straight - one stopped - rear-end	Inattention	None	East	West	East	Vehicle Stopped
Pickup,Panel Truck or Vanette under 10,000 lb		At Intersection and Related	Wet	Daylight	Railway Crossing Gate ✓	Other		West	East		
Not Stated		At Intersection and Not Related	Wet	Daylight	Vehicle - Pedalcyclist	Other		East	West		
Pickup,Panel Truck or Vanette under 10,000 lb	Passenger Car	At Intersection and Not Related	Dry	Daylight	From same direction - both going straight - one stopped - rear-end	Follow Too Closely	None	East	West	East	Vehicle Stopped
Not Stated		At Intersection and Related	Snow/Slush	Daylight	Railway Crossing Gate ✓	Other		North	West		
Pickup,Panel Truck or Vanette under 10,000 lb	Passenger Car	At Intersection and Related	Dry	Daylight	From same direction - both going straight - one stopped - rear-end	Inattention	None	North	South	North	Vehicle Stopped
Pickup,Panel Truck or Vanette under 10,000 lb	Passenger Car	At Intersection and Related	Dry	Daylight	Same direction -- both turning right -- both moving -- rear end	Follow Too Closely	None	North	West	North	West
Passenger Car		At Intersection and Related	Dry	Daylight	Train struck moving vehicle ✓	Improper Turn		North	West		
		At Intersection and Related	Dry	Daylight	Vehicle - Pedalcyclist						

total 29  
11 - Railway Crossing Gate  
or  
Train struck moving veh