Permanent Traffic Recorder Data Collection Report

STRATEGIC PLANNING DIVISION
STATEWIDE TRAVEL & COLLISION DATA OFFICE

AUGUST 2013

Washington State Department of Transportation

In cooperation with the
United States Department of Transportation
Federal Highway Administration

TABLE OF CONTENTS

PERMANENT TRAFFIC RECORDER DATA COLLECTION REPORT METHODOLOGY 1

GLOSSARY…….....2

EXECUTIVE SUMMARY……3

TRAFFIC VOLUME TREND……...4

TRAFFIC VOLUME CHANGE REPORT…….....5

PERMANENT TRAFFIC RECORDER DATA COLLECTION REPORT DETAIL……6-10

Permanent Traffic Recorder Data Collection Report Methodology

The monthly Permanent Traffic Recorder Data Collection Report is designed to provide reliable data to traffic engineers, state planners, traffic operations, other government agencies, regional administrators, the Washington State Patrol, private businesses and the citizens of Washington State. This report is administered and produced by the Statewide Travel & Collision Data Office of the Washington State Department of Transportation.
This report is comprised of data collected from permanent traffic recorders monitored by the Traffic Reporting Analysis & Processing Section (TRAPS) and NW Regional Traffic Office. The data has been validated and verified for this report; it has been processed through the **TRansportation Information and Planning Support System (TRIPS**).

The information within this report is:

- Monthly Average Daily Traffic (MADT)
- MADT compared to previous months for all comparable sites
- MADT compared to same month previous year
- Missing data in month reported
- Comparison of current month to previous years

A legend is supplied for each page of listed site data.
The codes are:

- "Low" = (< 7,000 vehicles per day)
- "Low-to-Medium" = (7,000 -<40,000 vehicles per day)
- "Medium" = (40,000 -<100,000 vehicles per day)
- "High" = (100,000 + vehicles per day)
- "REC" = Recreational route
- "Region" = Geographical location

For questions about this report or further site information, please contact the Traffic *Reporting Analysis & Processing Section (TRAPS)* supervisor at 360-570-2392 or E mail this section at stcdoadc@wsdot.wa.gov

GLOSSARY

AR.....Alternate Route

SR……State Route

MP……Mile Post

PTR……Permanent Traffic Recorder

ADT……Average Daily Traffic

TRIPS……Transportation Information and Planning Support System

SRMP……State Route Mile Post

RRT.....Related Roadway Type

For answers to any questions about this report and or if you wish to have a further detailed report for one of the sites that the Traffic Reporting Analysis & Processing Section (TRAPS) is currently monitoring, please call Tony Niemi at (360) 570-2392 or Pamela Pope at (360) 570-2396.

To obtain classification, length and or speed information please contact the Traffic Reporting Analysis & Processing Section (TRAPS) of the Travel Data & Analysis Branch at stcdoadc@wsdot.wa.gov

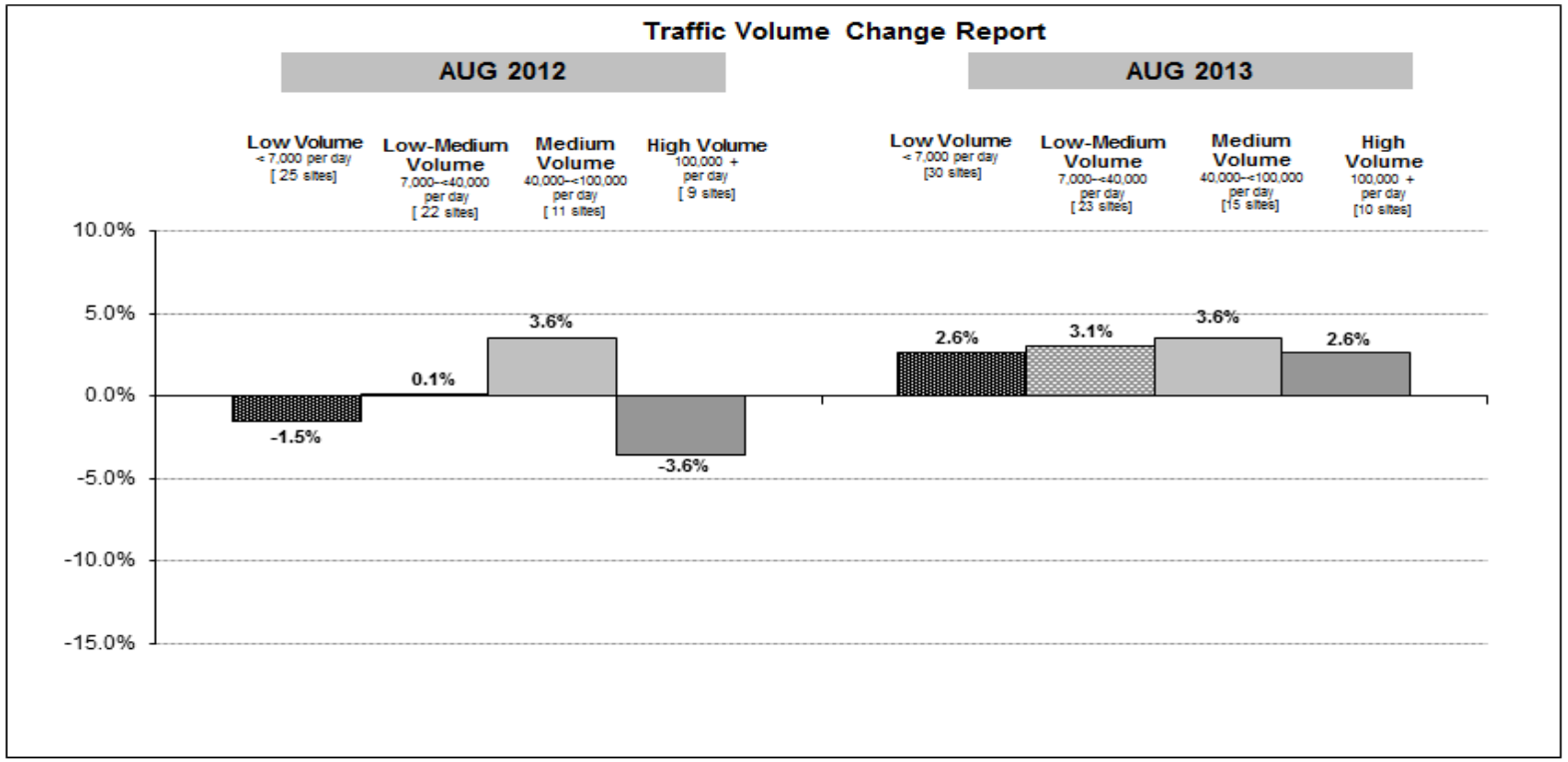
Executive Summary

This report provides information on traffic volume changes and trends. The data for this report is collected from ~~7~~4 Permanent Traffic Recorder (PTR) sites on state highways.

The pattern of traffic volume has changed among all the volume group locations (Low, Low-to-Medium, Medium, High). The volume has an overall increase of +3.5**%** when compared to the 5-year average from 2003 to 2007.

Traffic Volume Change Report for AUG 2013*

Percent Change from the Baseline Traffic Volume (5-Year Average from 2003 to 2007)*
By Highway Volume



*Normal Traffic Volume is the expected level of volume for the month, which was forecasted by the five-year average (2003-2007) of traffic volume as a baseline (0.0%).
Unit of volume measurement is monthly average daily traffic (MADT).
Source: Statewide Travel & Collision Data Office from Permanent Traffic Recorder Sites

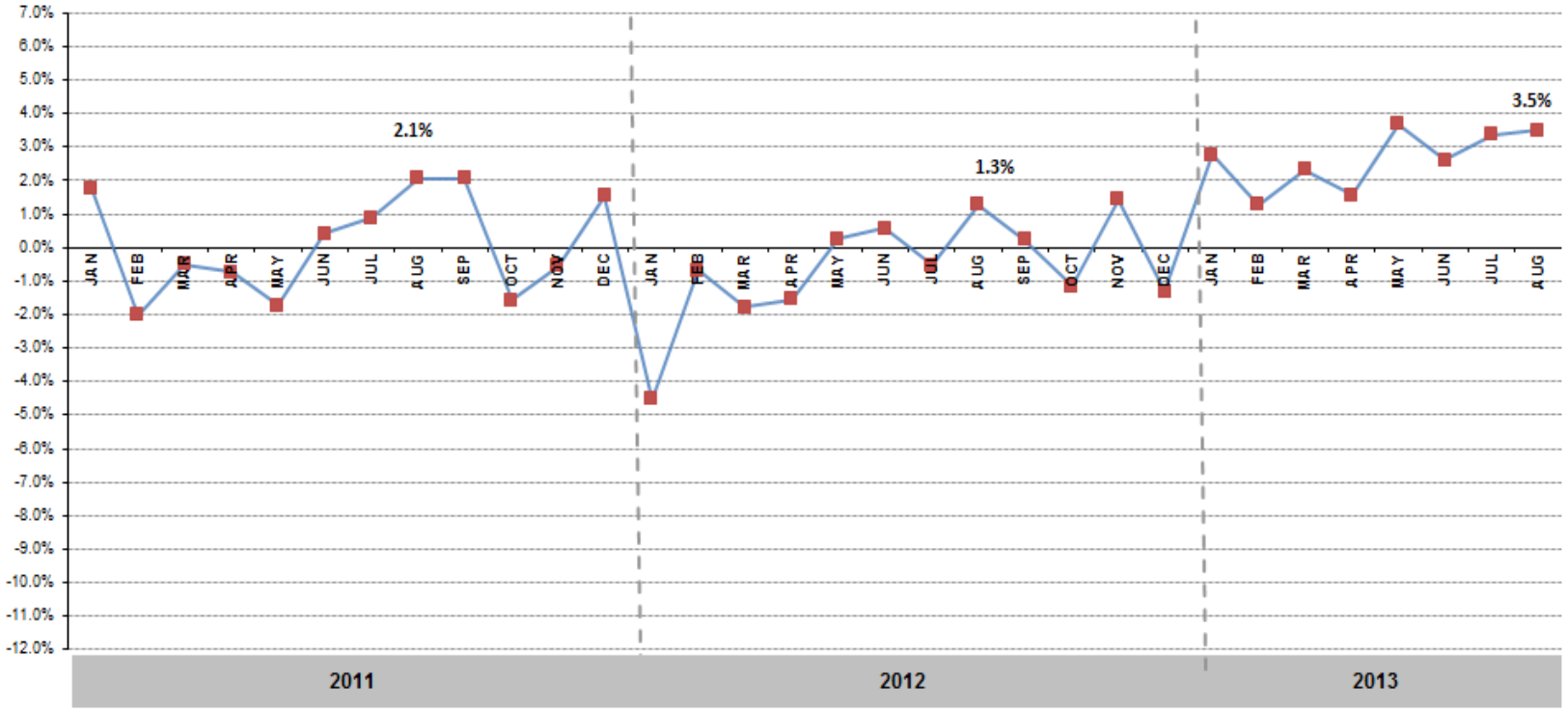
Compared to the traffic volume trend (average daily traffic) the overall traffic volumes for **August 2013** reflect an increase of **(+3.5%).**

Traffic Volume Trend*

Percent Change from the 5-Year Average from 2003 to 2007+

JAN 2011 through AUG 2013

Baseline Traffic Volume (2003-2007 Average)

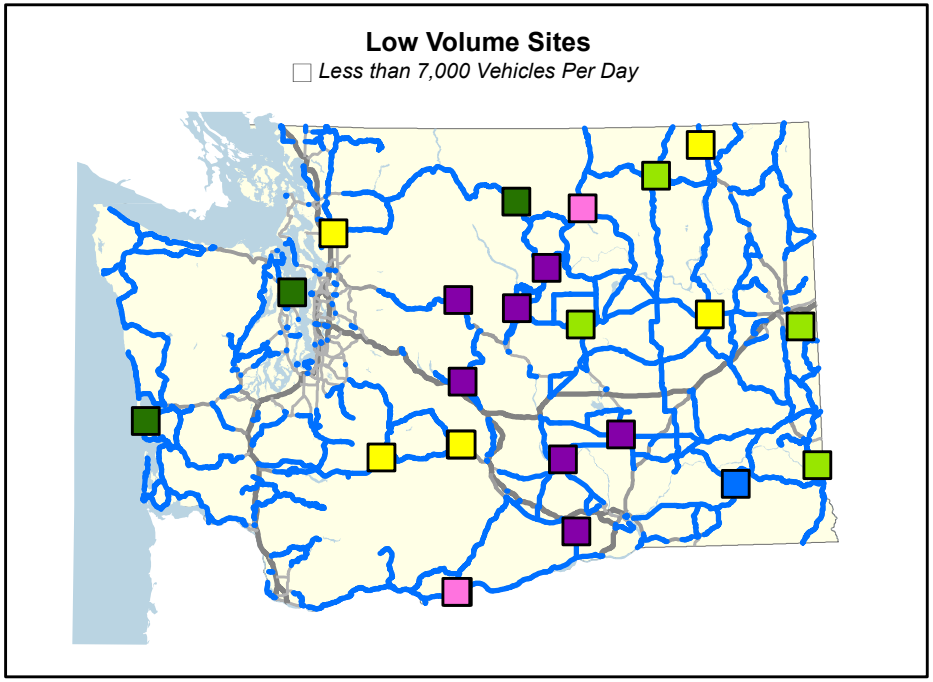


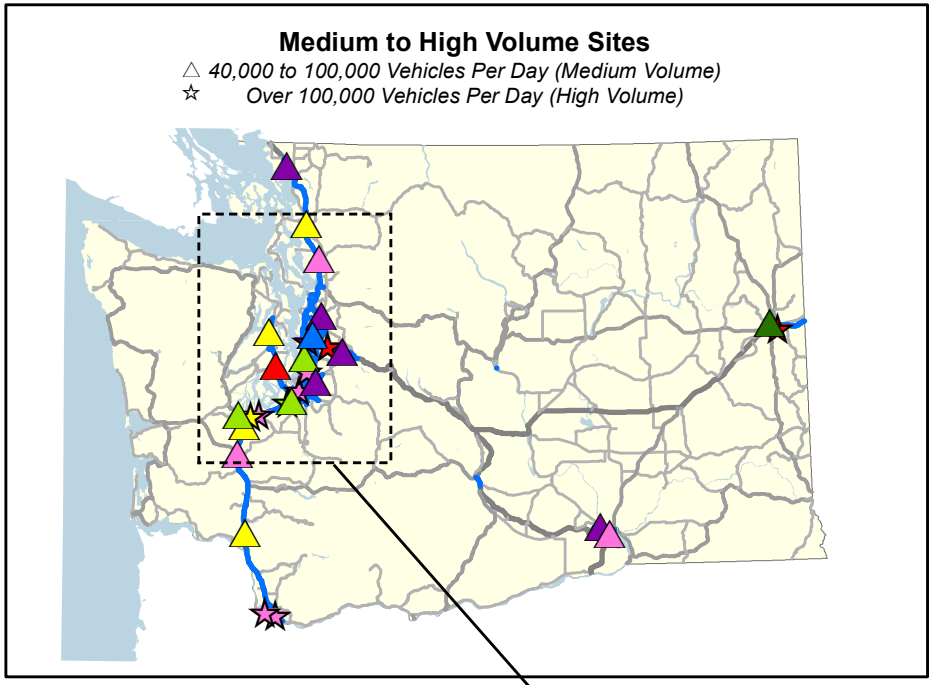
*Traffic Volume Trend is a weighted average of traffic volume changes among all reportable Permanent Traffic Recorder (PTR) sites. Weights are calculated proportional to the amount of monthly vehicle miles traveled (VMT, 2006-2012) based on highway volume. AUG13 Preliminary data.
+Normal Traffic Volume is the expected level of volume for the month, which was forecasted by the five-year average (2003-2007) of traffic volume as a baseline (0.0%).

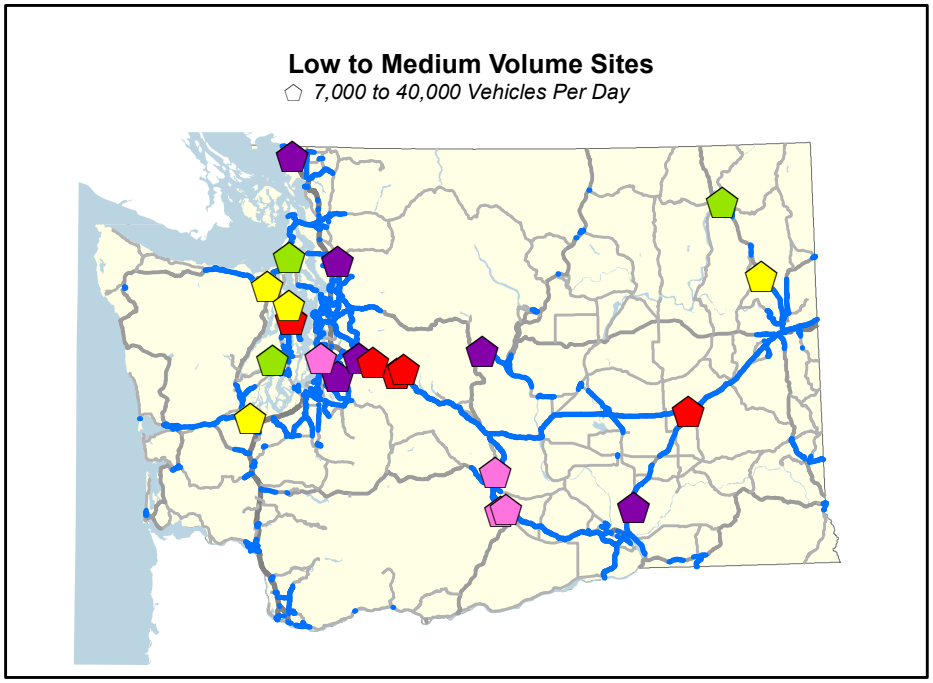
History of the Data:

-**Feb -May 2011** - Gas prices increased, mudslides, severe thunderstorms, tsunami alert .
-**Jan 2012** - Winter storm - Ice/Snow with widespread power outages,.

Volume Change at Permanent Traffic Recorder Sites - August 2013



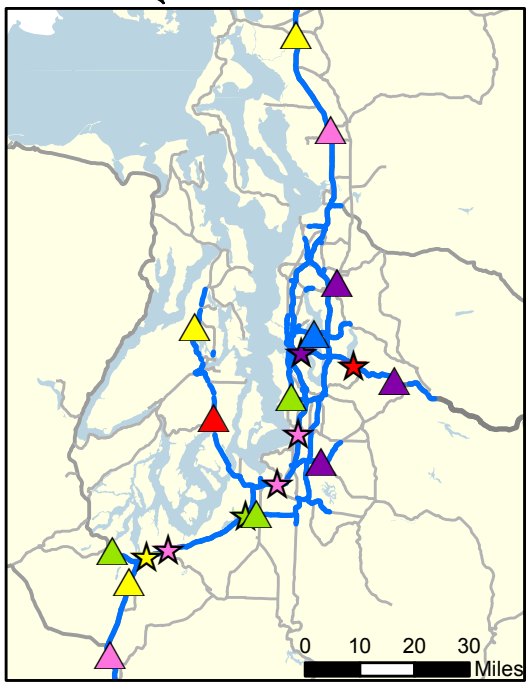




Percent Change

Color indicates range of percent change at each PTR site

- Over 10% increase
- 6% to 10%
- 2% to 6%
- Within +/- 2%
- -2% to -6%
- -6% to -10%
- Over 10% decrease
- Routes within Volume Group



Washington State Department of Transportation

Statewide Travel and Collision Data Office
Travel Data and Analysis Branch
Automated Data Collection Section
360-570-2392 or 360-570-2396 (E-mail) stcdoadc@wsdot.wa.gov

PERMANENT TRAFFIC RECORDER SITE MONTHLY COMPARISON TO PREVIOUS 5-YEAR AVERAGE OF SAME MONTH

AUG 2013

SR	MP	RRT	SITE	DESCRIPTION	Monthly Average Daily Traffic (MADT)	Percent change compared to previous 5-year average	Recreational Route (REC)*	Geographic Location	VOLUME GROUP+
002	80.2		R058	E/O NASON RIDGE ROAD - COLES CORNER	6,873	20.0%	Rec	Central	LOW
002	104.84		R047E	E/O SR 97 - DRYDEN	20,234	11.4%		Central	LOW-to-MEDIUM
002	179.1		P02	E/O J SE - COULEE CITY	1,097	-4.4%	Rec	Central	LOW
002	250.5		R064	W/O GUNNING RD - DAVENPORT	3,612	-1.6%		Eastern	LOW
002	289.79		R021	N/O WALTON AVE - SPOKANE DIVISION ST	42,415	-10.0%		Eastern	MEDIUM
003	28.68		R089	S/O LAKE FLORA RD.- GRAPEVIEW	18,594	-3.4%		Puget Sound	LOW-to-MEDIUM
003	44.33		R050	N/O NEWBERRY HILL I/C - SILVERDALE	46,261	1.3%		Western	MEDIUM
005	1.98		P5	S/O SR 500/39TH ST I/C -VANCOUVER	136,755	5.3%		Western	HIGH
005	44.3		P8	N/O WEIGH STATION - KELSO	61,762	1.4%		Western	MEDIUM
005	86.32		R019	S/O SR 12 I/C - GRAND MOUND	71,805	3.0%		Puget Sound	MEDIUM
005	100.54		R097	S/O TUMWATER BLVD	79,712	1.8%		Puget Sound	MEDIUM
005	106.7		P4	AT BOULEVARD RD UXING - OLYMPIA	151,054	-0.3%		Puget Sound	HIGH
005	111.01		R060	S/O SR 510 I/C -LACEY	125,885	3.7%		Puget Sound	HIGH
005	126.76		R092	S/O SR 512 I/C - TACOMA	149,284	-5.4%		Puget Sound	HIGH
005	136.8		S837	S/O SR 99 I/C - FIFE	198,725	2.2%		Puget Sound	HIGH
005	148.07		S809	S/O SR 516 I/C - MIDWAY	208,436	2.9%		Puget Sound	HIGH

*"Rec" is Recreational Route

+Volume Group

LOW (< 7,000 vehicles per day)
LOW-To-MEDIUM (7,000 -<40,000 vehicles per day)
MEDIUM (40,000 -< 100,000 vehicles per day)
HIGH (100,000 + vehicles per day)

*Alternate Route

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AUG 2013

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005	207.78		R001	S/O SR 530 I/C - MARYSVILLE	100,072	5.8%		Puget Sound	MEDIUM
005	226.96		R093	N/O SR 536 I/C - MT. VERNON	75,762	-0.4%		Western	MEDIUM
005	261.33		P04	N/O SLATER ROAD I/C - FERNDALE	56,820	16.9%		Western	MEDIUM
005	269.41		S803	S/O BIRCH BAY/LYNDEN RD I/C - CUSTER	39,088	26.2%		Western	LOW-to-MEDIUM
008	20.67		R003W	AT SR 101 OXING - OLYMPIA	20,516	-1.8%		Puget Sound	LOW-to-MEDIUM
009	28.75		P21	N/O HIGHLAND DRIVE - ARLINGTON	13,671	12.3%		Puget Sound	LOW-to-MEDIUM
009	32.98		R083	N/O 53RD AVE NE - BRYANT	2,433	1.9%		Puget Sound	LOW
012	135.1		R040W	W/O COAL CREEK BRIDGE - PACKWOOD	3,103	0.1%	Rec	Western	LOW
012	185.62		S818E	E/O SR 410 - NACHES	6,175	0.1%	Rec	Central	LOW
012	376.98		P05	W/O TUCANNON RIVER BR - DAYTON	2,259	-12.3%		Central	LOW
014	100.64		R076	W/O SR 14 MARYHILL SPUR -MARYHILL	2,624	4.4%		Central	LOW
016	18.65		R088	W/O SR 302 PURDY SPUR - BURLEY	49,323	6.7%		Puget Sound	MEDIUM
018	5.26		P20	E/O SR 164 I/C - AUBURN EAST	63,644	11.5%		Puget Sound	MEDIUM
018	12.55		D12	AT 180TH AVE SE UXING - COVINGTON	38,514	21.2%		Puget Sound	LOW-to-MEDIUM
018	27.62		S838	S/O SR 090 I/C - ECHO GLEN	28,489	20.6%		Puget Sound	LOW-to-MEDIUM
020	20.02		S706	E/O RHODODENDRON PARK DR - COUPEVILLE	9,390	-5.0%		Puget Sound	LOW-to-MEDIUM

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+Volume Group

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MEDIUM (40,000 -< 100,000 vehicles per day)
HIGH (100,000 + vehicles per day)

*Alternate Route

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020	191.9		R037	W/O RADER ROAD - WINTHROP	2,626	-9.6%	Rec	Central	LOW
020	304.6		S820	W/O FAIRGROUNDS ROAD-REPUBLIC	2,867	-5.1%		Eastern	LOW
024	43.5		S612	AT COLUMBIA RVR BRIDGE - VERNITA BRIDGE	4,894	20.9%		Central	LOW
026	43.06		R066	E/O SR 17 I/C - OTHELLO	3,524	14.6%	Rec	Central	LOW
027	77.3		P30	S/O GIBBS ROAD - SPANGLE	6,688	-3.4%		Eastern	LOW
082	24.83		R048	E/O SELAH CR REST AREA ON RAMP - SELAH	19,361	4.2%		Central	LOW-to-MEDIUM
082	48.5		P08	W/O SR 22 I/C - BUENA	26,387	2.3%		Central	LOW-to-MEDIUM
090	4.22		R017	E. END OF MT BAKER TUNNEL- SEATTLE	136,849	12.3%		Puget Sound	HIGH
090	14.65		S825	W/O SR 900 I/C - ISSAQUAH	132,343	6.7%		Puget Sound	HIGH
090	23.54		S826	E/O JONES ROAD I/C - PRESTON	67,852	17.9%		Puget Sound	MEDIUM
090	33.56		R039	W/O 468TH AVE SE I/C-NORTH BEND	44,779	8.6%	Rec	Puget Sound	LOW-to-MEDIUM
090	47.71		S901	AT TINKHAM ROAD UXING -TINKHAM RD	40,053	6.3%	Rec	Western	LOW-to-MEDIUM
090	52.24		S902	AT SR 906 OXING - SNOQUALMIE	38,233	7.1%	Rec	Western	LOW-to-MEDIUM
090	218.83		P10	W/O SR 395 I/C - RITZVILLE	14,563	6.2%	Rec	Eastern	LOW-to-MEDIUM
090	285.23		R036	W/O SPRAGUE AVE I/C - SPOKANE	120,309	6.1%		Eastern	HIGH
097	66.3		P03	S/O PROGRESSIVE ROAD WYE CONN - WAPATO	13,337	4.0%		Central	LOW-to-MEDIUM

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097	201.53	*AR	R059	N/O OHME GARDEN RD/WAREHOUSE RD - WENATC	9,228	5.9%		Central	LOW
097	220.55		R084	N/O BRAYS ROAD - ORONDO	5,851	17.5%		Central	LOW
097	250.35		P11	N/O COUNTY ROAD NO 1525 - PATEROS	5,900	18.0%		Central	LOW
097	293.42		R068	N/O COPPLE ROAD - OMAK	6,243	3.8%		Central	LOW
101	281.15		R023	S/O ORCAS AND HOLLAND DRIVES -DISCOVERY BA	14,576	0.5%		Western	LOW-to-MEDIUM
101	362.02		R003E	E/O SR 8 - OLYMPIA	53,250	-2.1%		Puget Sound	MEDIUM
104	13.92		R085	AT HOOD CANAL BRIDGE	19,786	1.5%		Puget Sound	LOW-to-MEDIUM
104	19.48		R095	W/O OLD PORT GAMBLE ROAD WYE CONN -KINGST	6,585	-8.0%		Puget Sound	LOW
105	31.92		R043	AT ELK RIVER BRIDGE - WESTPORT	6,408	-9.9%		Western	LOW
182	6.34		R081	AT COLUMBIA RIVER BRIDGE-PASCO	57,745	30.4%		Eastern	MEDIUM
195	6.01		P13	S/O BAUER RD 9440 - UNIONTOWN	5,105	-3.8%		Eastern	LOW
205	28.84		R051	N/O MILL PLAIN I/C - VANCOUVER	119,172	2.2%		Western	HIGH
221	13.1		P17	S/O SELLARDS RD - PROSSER	2,747	16.6%		Central	LOW
307	2.31		R096	S/O NE GUNDERSON RD.	17,022	9.1%		Puget Sound	LOW-to-MEDIUM
395	18.58		R087	AT COLUMBIA RIVER BRIDGE - KENNEWICK	62,149	6.0%		Central	MEDIUM
395	36.24		R061	N/O E ELM RD - ELTOPIA	17,045	13.8%		Eastern	LOW-to-MEDIUM

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395	190.29		R063	S/O SR 292 - LOON LAKE	9,775	-1.9%		Eastern	LOW-to-MEDIUM
395	235.6		R070	N/O GREENWOOD LOOP RD	8,456	-4.1%		Eastern	LOW-to-MEDIUM
395	260		P26	N/O COUNTY ROAD - ORIENT	900	-0.7%		Eastern	LOW
410	116.26		S818W	W/O SR 12 - CHINOOK PASS	3,036	-3.4%	Rec	Central	LOW
512	1.53		D3	W/O SR 7 I/C PARKLAND	89,558	-5.1%		Puget Sound	MEDIUM
518	0.35		D13	E/O SR 509 I/C - SEATAC	58,575	-4.8%		Puget Sound	MEDIUM
520	4		D10	W/O 76TH AVE NE UXING -TOLLPlAZA	65,305	-36.2%		Puget Sound	MEDIUM
522	13.3		P19	W/O SR 9 I/C - WOODINVILLE	50,659	12.0%		Puget Sound	MEDIUM
599	1.15		S839	E/O SR 99 I/C - TUKWILA	43,679	5.7%		Puget Sound	LOW-to-MEDIUM
970	6.85		R057	W/O TEANAWAY RD - TEANAWAY	6,447	11.3%	Rec	Central	LOW

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Prepared by the
WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
Strategic Planning Division
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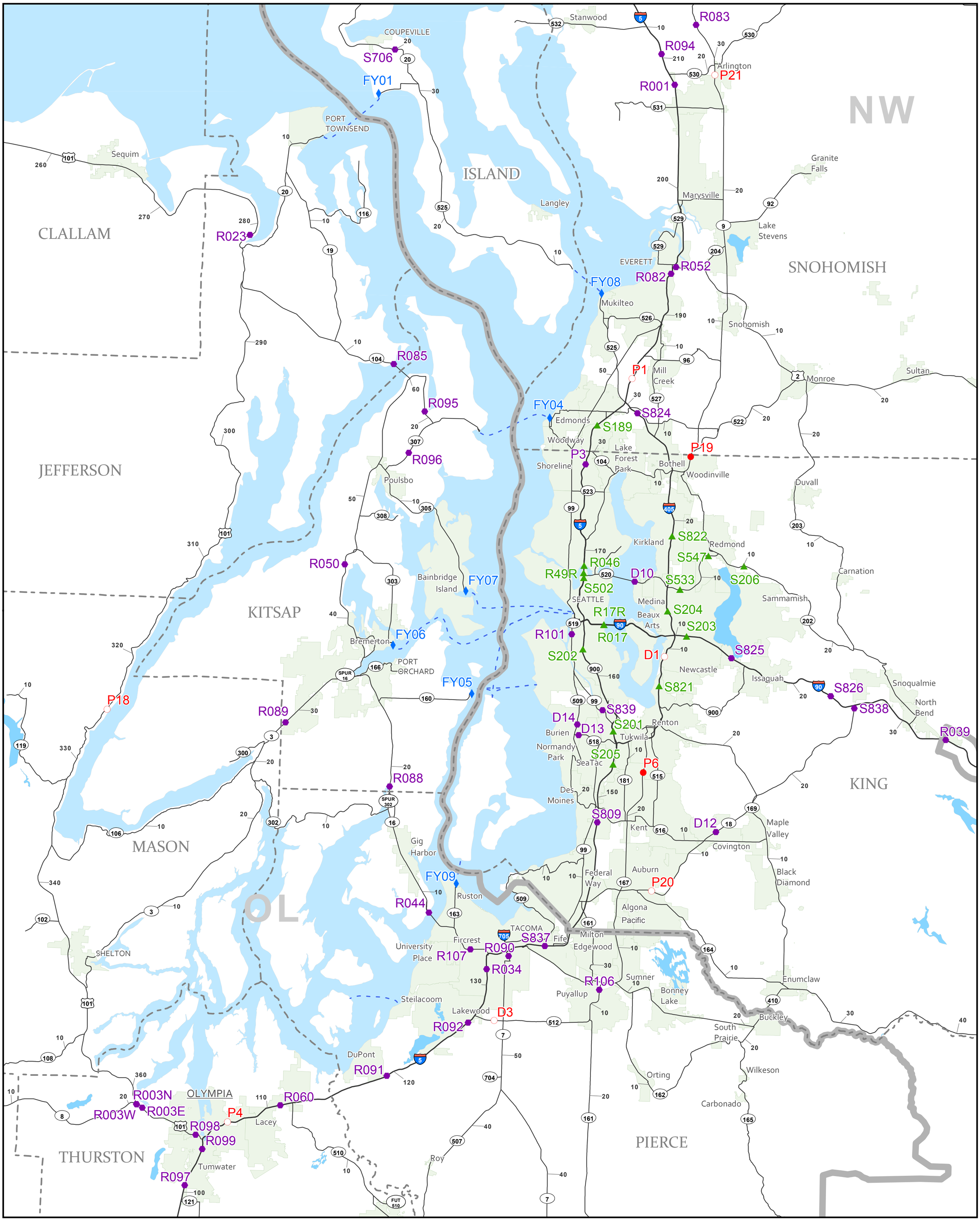
2012 Permanent Traffic Recorder Data Collection Sites

Legend

- Ferry Terminal
- Permanent (Volume-Speed-Classification)
- Weigh In Motion (WIM)
- SHRP/LTPP Research Site (WIM)
- Oregon
- U.S. Interstate
- U.S. Highway
- State Route
- Ferry Routes
- Milepost Markers
- City Boundaries
- CAPITAL CITY
- COUNTY SEAT CITY
- Other City

0 30 60 90 120 Kilometers
0 25 50 75 100 Miles
N

2012 Permanent Traffic Recorder Data Collection Sites