Permanent Traffic Recorder Data Collection Report

STRATEGIC PLANNING DIVISION
STATEWIDE TRAVEL & COLLISION DATA OFFICE

SEPTEMBER 2013

Washington State Department of Transportation

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

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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

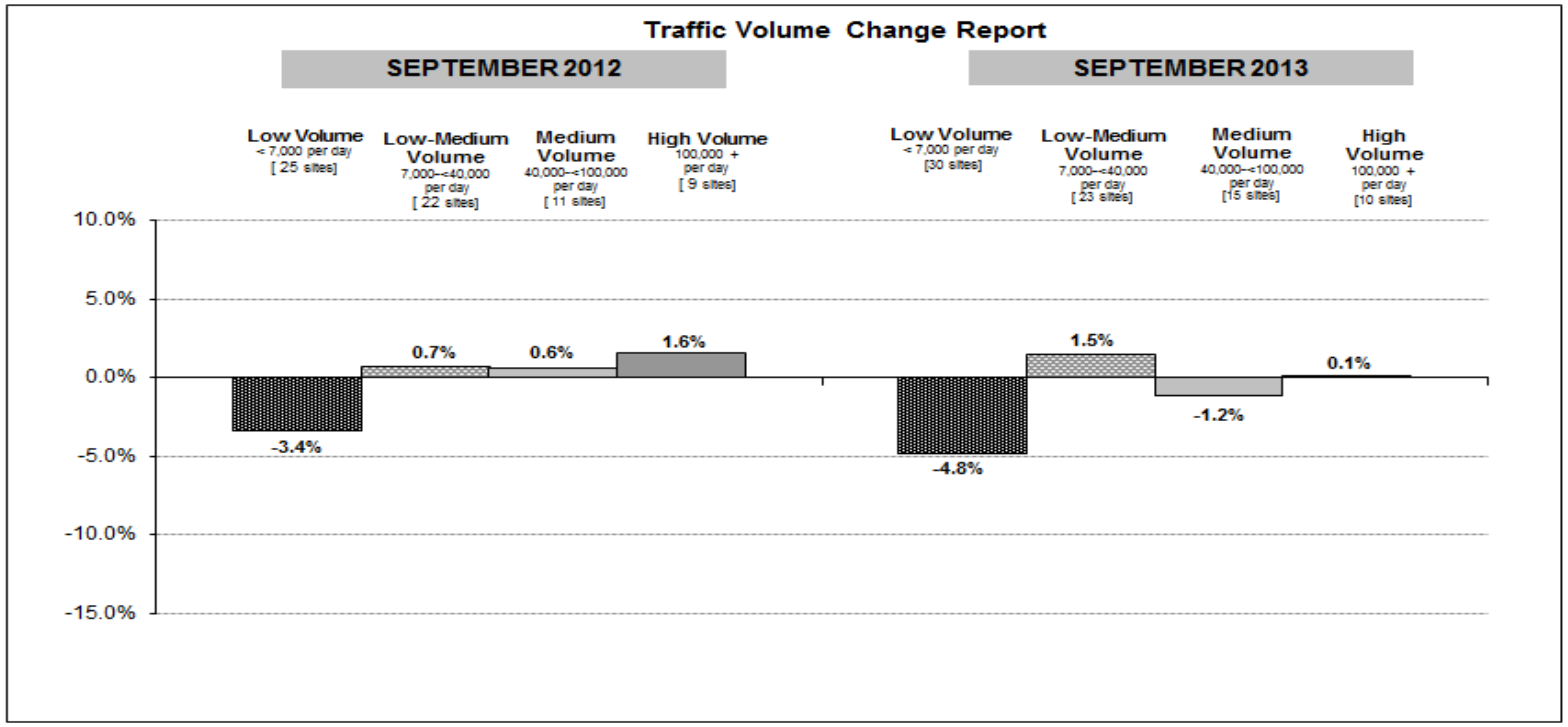
Executive Summary

This report provides information on traffic volume changes and trends. The data for this report is collected from ~~8~~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 decrease of -0.83**%** when compared to the 5-year average from 2003 to 2007.

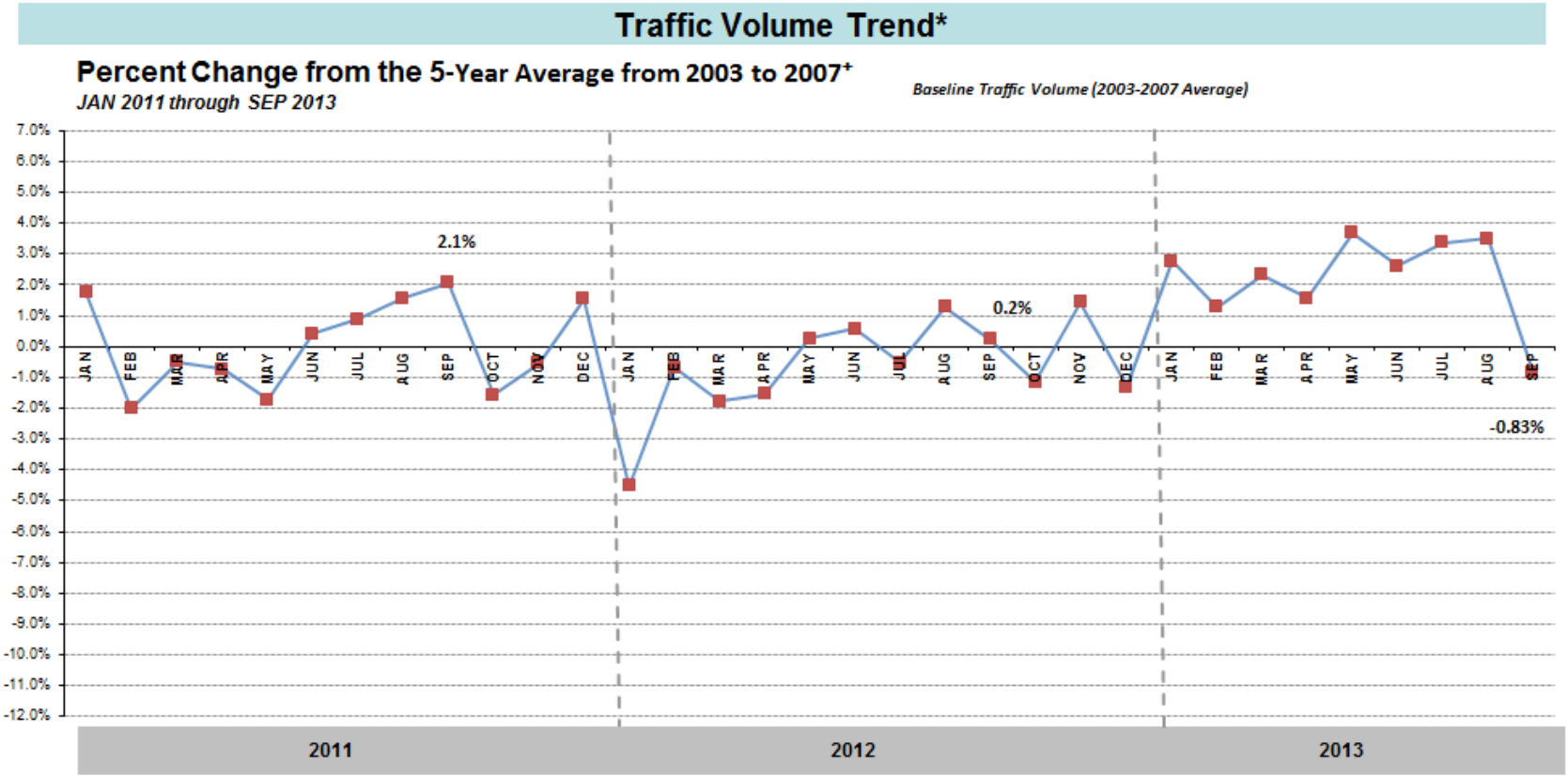
Traffic Volume Change Report for SEPTEMBER 2013*

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 **September 2013** reflect a decrease of **(-0.83%).**



*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. SEP13 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%).
Unit of volume measurement is monthly average daily traffic (MADT).
Source: Statewide Travel & Collision Data Office from Permanent Traffic Recorder (PTR) Sites

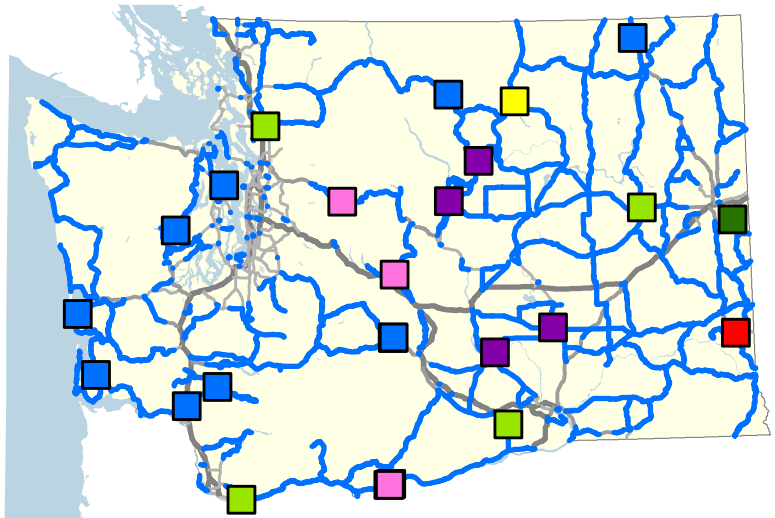
History of the Data:

-**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 - September 2013

Low Volume Sites

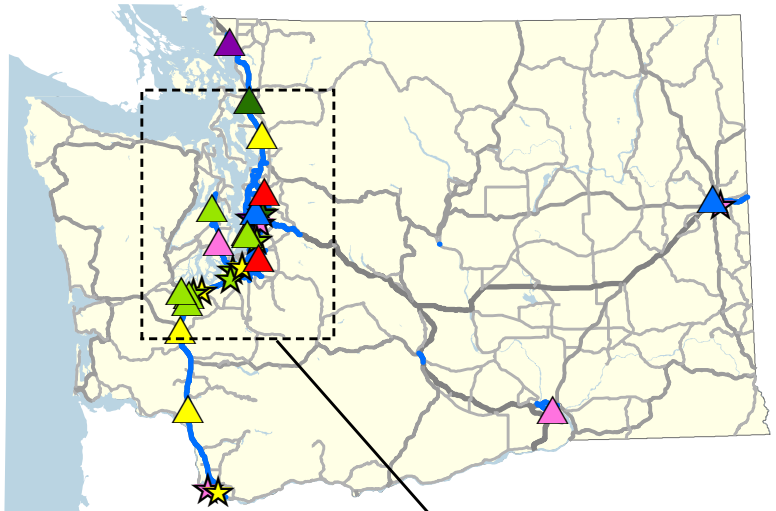
Less than 7,000 Vehicles Per Day



Medium to High Volume Sites

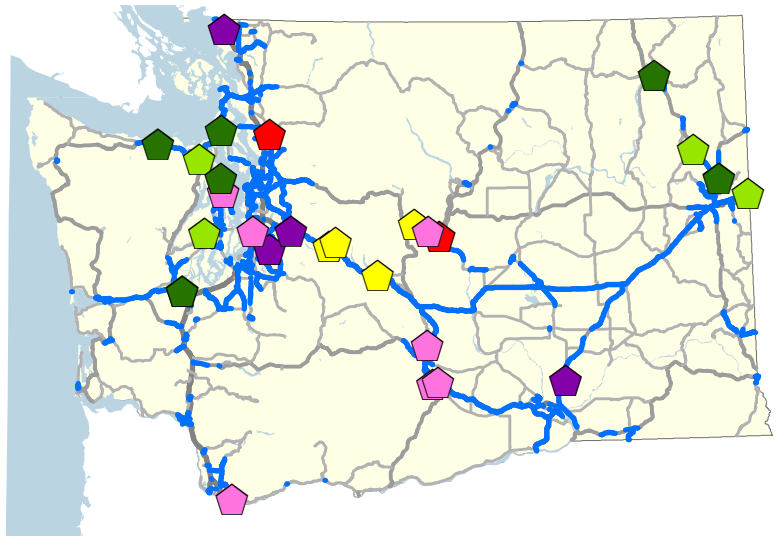
40,000 to 100,000 Vehicles Per Day (Medium Volume)

Over 100,000 Vehicles Per Day (High Volume)



Low to Medium Volume Sites

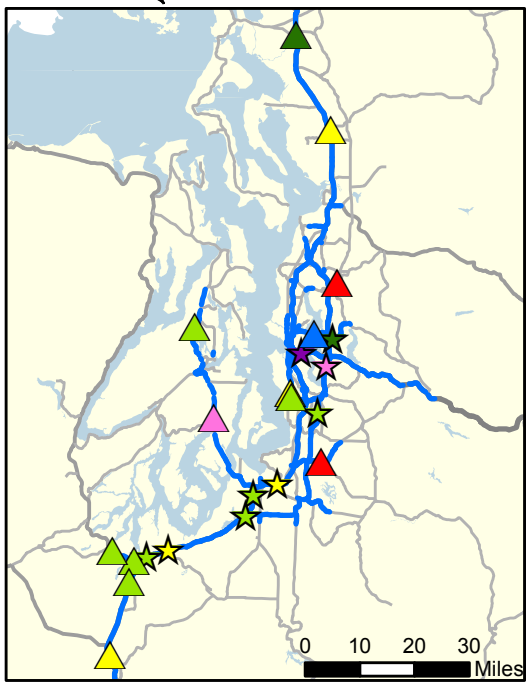
7,000 to 40,000 Vehicles Per Day



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

SEP 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	50.12		R038	E/O NE OLD CASCADE HWY - SKYKOMISH	5,071	2.0%	Rec	Western	LOW
002	104.84		R047E	E/O SR 97 - DRYDEN	17,385	1.1%		Central	LOW-to-MEDIUM
002	113.1		P01	W/O RED APPLE RD - CASHMERE	24,373	4.0%		Central	LOW-to-MEDIUM
002	119.77		R053	E/O SR97AR I/C - WENATCHEE	23,642	9.4%		Central	LOW-to-MEDIUM
002	250.5		R064	W/O GUNNING RD - DAVENPORT	2,991	-3.6%		Eastern	LOW
002	289.79		R021	N/O WALTON AVE - SPOKANE DIVISION ST	40,504	-12.1%		Eastern	MEDIUM
002	301.4		P28	S/O NORWOOD ROAD - CHATTAROY	16,855	-8.9%		Eastern	LOW-to-MEDIUM
003	28.68		R089	S/O LAKE FLORA RD.- GRAPEVIEW	16,731	-5.9%		Puget Sound	LOW-to-MEDIUM
003	44.33		R050	N/O NEWBERRY HILL I/C - SILVERDALE	43,373	-2.2%		Western	MEDIUM
005	1.98		P5	S/O SR 500/39TH ST I/C -VANCOUVER	127,984	3.9%		Western	HIGH
005	44.3		P8	N/O WEIGH STATION - KELSO	53,115	-0.7%		Western	MEDIUM
005	86.32		R019	S/O SR 12 I/C - GRAND MOUND	62,040	-0.6%		Puget Sound	MEDIUM
005	100.54		R097	S/O TUMWATER BLVD	68,799	-3.1%		Puget Sound	MEDIUM
005	106.7		P4	AT BOULEVARD RD UXING - OLYMPIA	136,890	-3.9%		Puget Sound	HIGH
005	111.01		R060	S/O SR 510 I/C -LACEY	114,878	1.7%		Puget Sound	HIGH
005	126.76		R092	S/O SR 512 I/C - TACOMA	143,002	-4.6%		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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005	131.18		R034	N/O SO 56TH ST I/C - LAKEWOOD	185,692	-3.0%		Puget Sound	HIGH
005	136.8		S837	S/O SR 99 I/C - FIFE	184,049	-0.6%		Puget Sound	HIGH
005	207.78		R001	S/O SR 530 I/C - MARYSVILLE	87,087	1.4%		Puget Sound	MEDIUM
005	226.96		R093	N/O SR 536 I/C - MT. VERNON	65,285	-6.4%		Western	MEDIUM
005	261.33		P04	N/O SLATER ROAD I/C - FERNDALE	50,725	13.5%		Western	MEDIUM
005	269.41		S803	S/O BIRCH BAY/LYNDEN RD I/C - CUSTER	33,403	21.9%		Western	LOW-to-MEDIUM
008	20.67		R003W	AT SR 101 OXING - OLYMPIA	16,885	-6.8%		Puget Sound	LOW-to-MEDIUM
009	28.75		P21	N/O HIGHLAND DRIVE - ARLINGTON	13,129	8.0%		Puget Sound	LOW-to-MEDIUM
009	32.98		R083	N/O 53RD AVE NE - BRYANT	2,030	-2.5%		Puget Sound	LOW
012	185.25		S818S	S/O SR 410 - WHITE PASS	2,601	-8.8%	Rec	Central	LOW
012	185.62		S818E	E/O SR 410 - NACHES	4,934	-10.9%	Rec	Central	LOW
014	11.9		P06	E/O ALPINE RD - CAMAS	38,888	3.1%		Western	LOW-to-MEDIUM
014	17.7		P07	E/O 32ND ST - WASHOUGAL	6,223	-4.8%		Western	LOW
014	100.64		R076	W/O SR 14 MARYHILL SPUR -MARYHILL	2,272	-4.8%		Central	LOW
014	102.27		R077	W/O MARYHILL RD - STONEHENGE	1,748	-13.3%		Central	LOW
016	18.65		R088	W/O SR 302 PURDY SPUR - BURLEY	45,614	4.3%		Puget Sound	MEDIUM

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018	5.26		P20	E/O SR 164 I/C - AUBURN EAST	58,588	7.3%		Puget Sound	MEDIUM
018	12.55		D12	AT 180TH AVE SE UXING - COVINGTON	34,664	17.2%		Puget Sound	LOW-to-MEDIUM
018	27.62		S838	S/O SR 090 I/C - ECHO GLEN	24,817	17.5%		Puget Sound	LOW-to-MEDIUM
020	20.02		S706	E/O RHODODENDRON PARK DR - COUPEVILLE	8,325	-8.1%		Puget Sound	LOW-to-MEDIUM
020	191.9		R037	W/O RADER ROAD - WINTHROP	2,134	-15.0%	Rec	Central	LOW
024	43.5		S612	AT COLUMBIA RVR BRIDGE - VERNITA BRIDGE	5,150	19.7%		Central	LOW
026	43.06		R066	E/O SR 17 I/C - OTHELLO	3,386	16.3%	Rec	Central	LOW
027	77.3		P30	S/O GIBBS ROAD - SPANGLE	6,397	-7.9%		Eastern	LOW
082	24.83		R048	E/O SELAH CR REST AREA ON RAMP - SELAH	18,185	2.3%		Central	LOW-to-MEDIUM
082	48.5		P08	W/O SR 22 I/C - BUENA	26,377	3.6%		Central	LOW-to-MEDIUM
090	4.22		R017	E. END OF MT BAKER TUNNEL- SEATTLE	136,210	14.1%		Puget Sound	HIGH
090	47.71		S901	AT TINKHAM ROAD UXING -TINKHAM RD	33,006	0.8%	Rec	Western	LOW-to-MEDIUM
090	52.24		S902	AT SR 906 OXING - SNOQUALMIE	31,355	0.9%	Rec	Western	LOW-to-MEDIUM
090	82.7		B04	W/O W FIRST STREET I/C - CLE ELUM	32,475	1.9%	Rec	Central	LOW-to-MEDIUM
090	285.23		R036	W/O SPRAGUE AVE I/C - SPOKANE	113,605	5.4%		Eastern	HIGH
097	66.3		P03	S/O PROGRESSIVE ROAD WYE CONN - WAPATO	13,091	5.0%		Central	LOW-to-MEDIUM

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+Volume Group

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097	201.53	*AR	R059	N/O OHME GARDEN RD/WAREHOUSE RD - WENATC	7,508	2.7%		Central	LOW
097	220.55		R084	N/O BRAYS ROAD - ORONDO	4,957	11.0%		Central	LOW
097	250.35		P11	N/O COUNTY ROAD NO 1525 - PATEROS	4,914	10.0%		Central	LOW
097	293.42		R068	N/O COPPLE ROAD - OMAK	5,718	0.9%		Central	LOW
101	28.95		R074	N/O SR 4 - NEMAH	2,747	-10.2%	Rec	Western	LOW
101	254.35		R069	AT WEIGH STATION-PORT ANGELES	22,336	-7.9%		Western	LOW-to-MEDIUM
101	281.15		R023	S/O ORCAS AND HOLLAND DRIVES -DISCOVERY BA	12,193	-2.5%		Western	LOW-to-MEDIUM
101	324.8		P18	S/O EAGLE CREEK BRIDGE - LILLIWAUP	2,655	-13.4%	Rec	Puget Sound	LOW
101	361.37		R003N	N/O SR 8 - OLYMPIA	30,088	-4.7%		Puget Sound	LOW-to-MEDIUM
101	362.02		R003E	E/O SR 8 - OLYMPIA	47,134	-5.2%		Puget Sound	MEDIUM
101	366.69		R098	E/O OLYMPIA/COOPER POINT RD	94,215	-3.8%		Puget Sound	MEDIUM
104	13.92		R085	AT HOOD CANAL BRIDGE	16,918	-6.1%		Puget Sound	LOW-to-MEDIUM
104	19.48		R095	W/O OLD PORT GAMBLE ROAD WYE CONN -KINGST	5,732	-11.1%		Puget Sound	LOW
105	31.92		R043	AT ELK RIVER BRIDGE - WESTPORT	5,571	-10.4%		Western	LOW
167	23.7		P6	N/O S 212TH ST I/C - KENT	117,037	-2.1%		Puget Sound	HIGH
195	22.2		P14	S/O SR 270 - PULLMAN	3,521	6.0%		Eastern	LOW

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520	7.93		S533	W/O 148TH AVENUE NE I/C	94,550	-6.4%		Puget Sound	HIGH
522	13.3		P19	W/O SR 9 I/C - WOODINVILLE	47,847	9.6%		Puget Sound	MEDIUM
599	1.15		S839	E/O SR 99 I/C - TUKWILA	41,448	4.2%		Puget Sound	LOW-to-MEDIUM
970	6.85		R057	W/O TEANAWAY RD - TEANAWAY	5,004	2.2%	Rec	Central	LOW

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WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
Strategic Planning Division
Transportation Data & GIS Office

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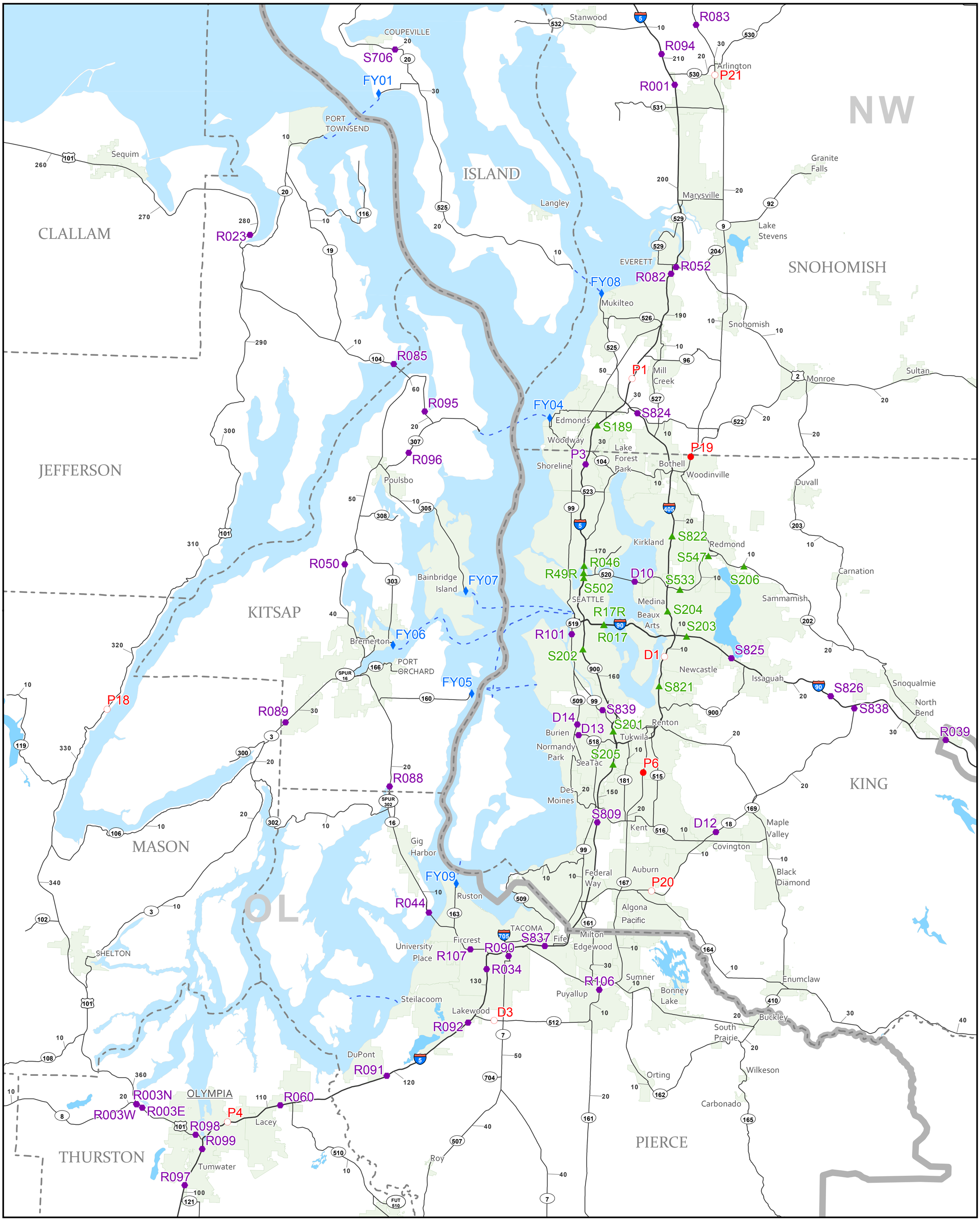
2012 Permanent Traffic Recorder Data Collection Sites

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