Permanent Traffic Recorder (PTR) Monthly Traffic Volume Trend Report

MULTIMODAL PLANNING DIVISION
TRANSPORTATION DATA AND GIS OFFICE (TDGO)

February 2016

Washington State Department of Transportation

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

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PTR Monthly Traffic Volume Trend Report Methodology

The PTR Monthly Traffic Volume Trend 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 Transportation Data and GIS 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 tdgoadc@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 further a 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 tdgoadc@wsdot.wa.gov

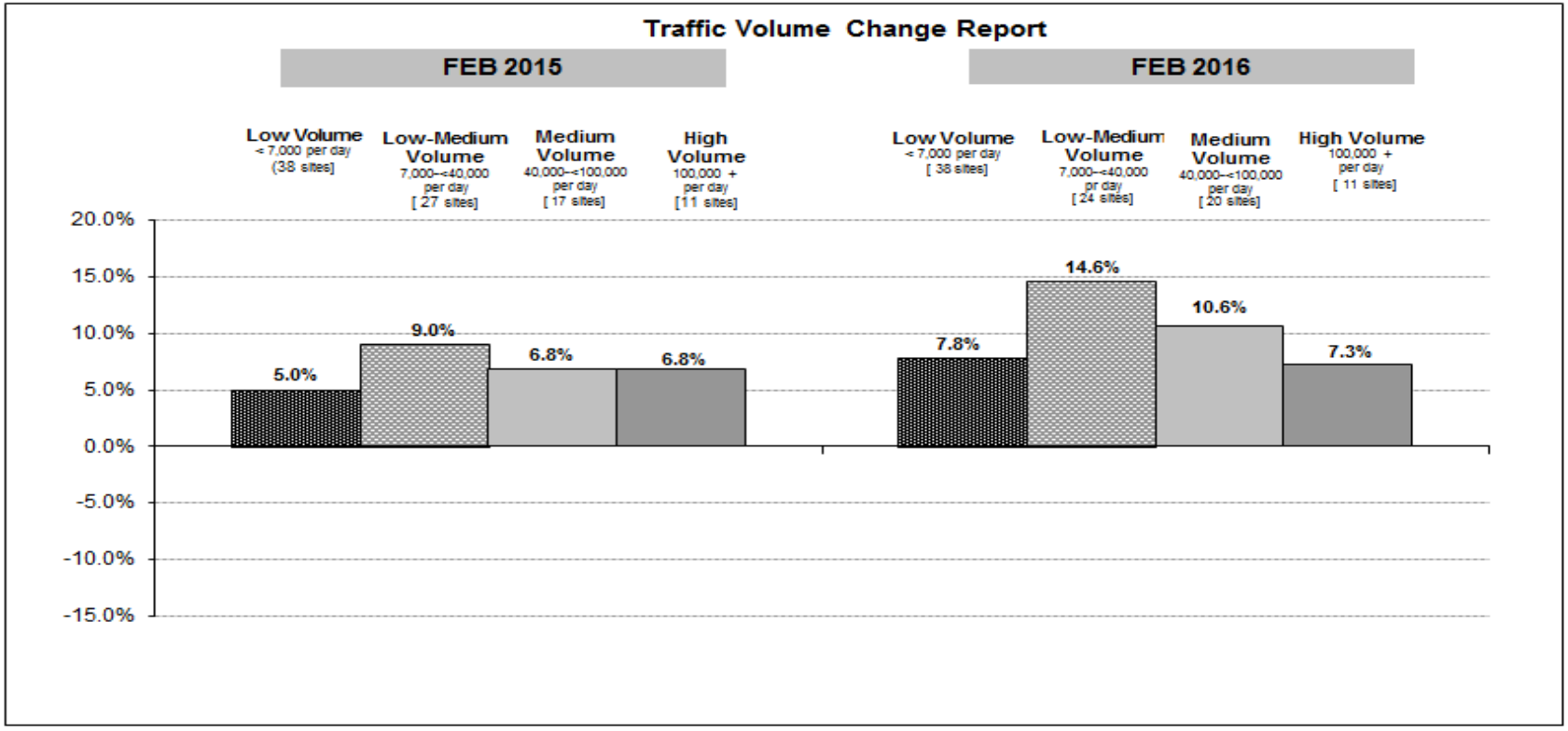
Executive Summary

This report provides information on traffic volume changes and trends. The data for this report is collected from 93 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 (+7.82**%)** when compared to the 5-year average from 2003 to 2007.

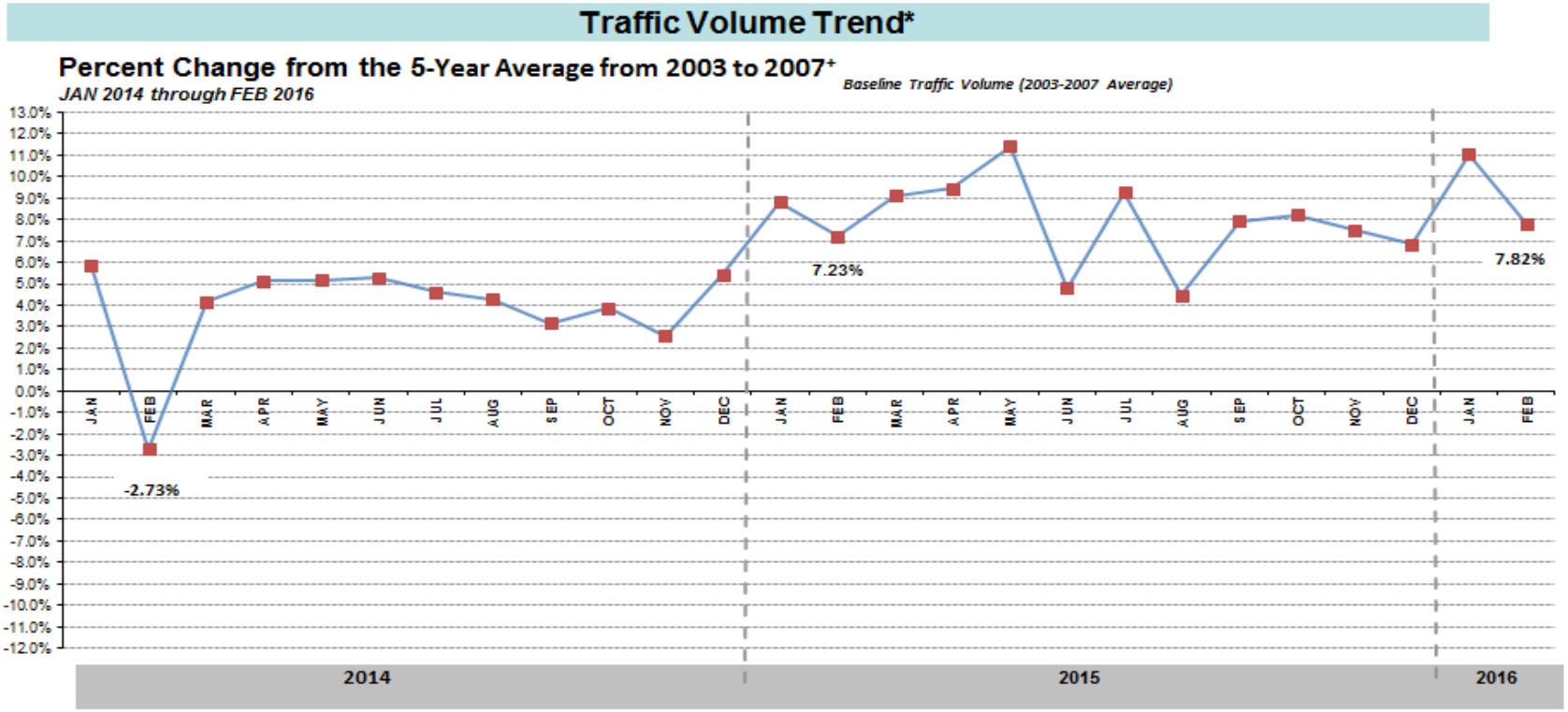
Traffic Volume Change Report for February 2016*

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: Transportation Data and GIS Office from Permanent Traffic Recorder Sites

Compared to the traffic volume trend (average daily traffic) the overall traffic volumes for **February 2016** reflect an Increase of **(7.82%).**



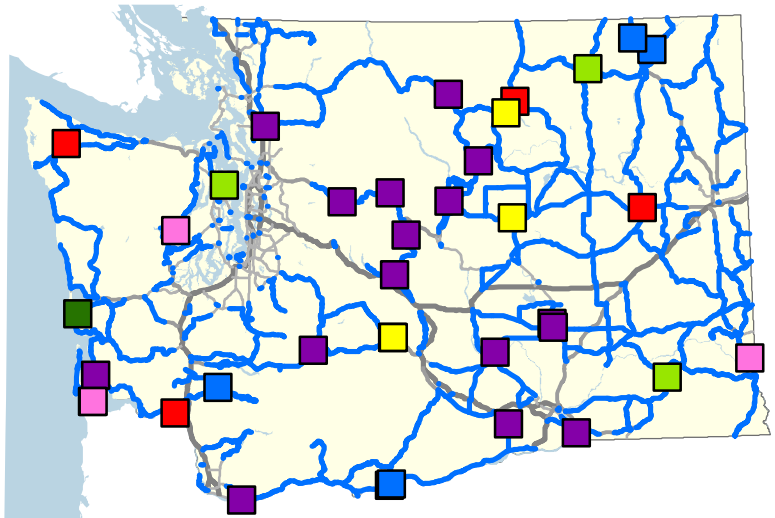
*Traffic Volume Trend is a weighted average of traffic volume changes among all reportable Permanent Traffic Recorder (PTR) sites. Weights are calculated proportional to the amount of monthly vehicle miles traveled (VMT, 2006-2012) based on highway volume. FEB16 Preliminary data.
+Normal Traffic Volume 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).

History of the Data:

Volume Change at Permanent Traffic Recorder Sites - February

Low Volume Sites

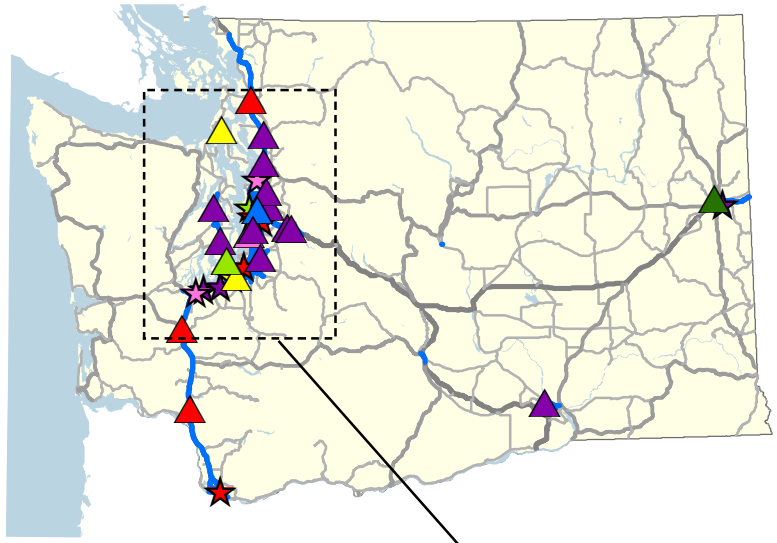
☐ *Less than 7,000 Vehicles Per Day*



Medium to High Volume Sites

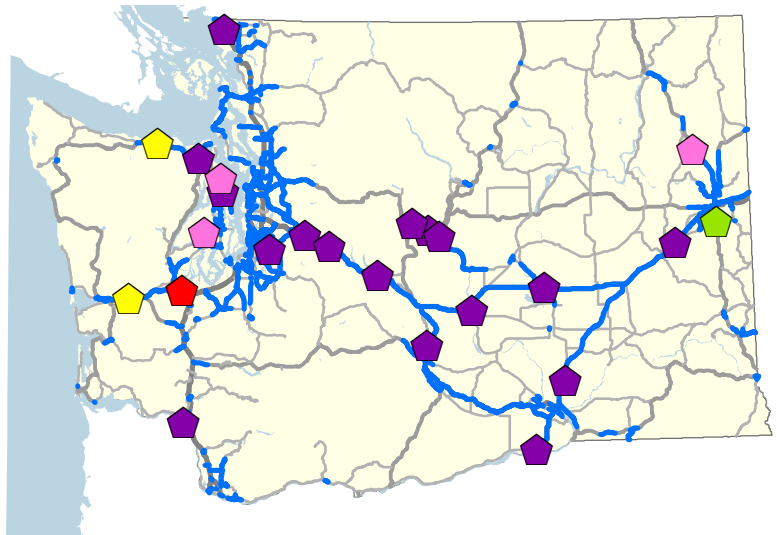
△ *40,000 to 100,000 Vehicles Per Day (Medium Volume)*

☆ *Over 100,000 Vehicles Per Day (High Volume)*



Low to Medium Volume Sites

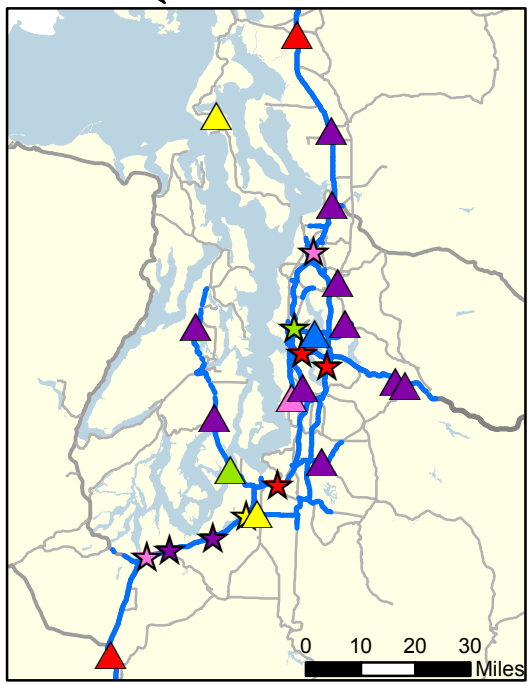
⬠ *7,000 to 40,000 Vehicles Per Day*



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



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360-570-2392 or 360-570-2396 (E-mail) tdgoadc@wsdot.wa.gov

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

FEB 2016

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	0.26		R052	E/O SR 5 I/C - EVERETT	78,301	13.8%		Puget Sound	MEDIUM
002	50.12		R038	E/O NE OLD CASCADE HWY - SKYKOMISH	5,385	17.3%	Rec	Western	LOW
002	80.2		R058	E/O NASON RIDGE ROAD - COLES CORNER	3,462	27.2%	Rec	Central	LOW
002	103.92		R047W	W/O GREEN AND SAUNDERS ROADS - PESHASTIN	11,014	11.6%		Central	LOW-to-MEDIUM
002	113.1		P01	W/O RED APPLE RD - CASHMERE	20,081	14.4%		Central	LOW-to-MEDIUM
002	119.77		R053	E/O US97AR I/C - WENATCHEE	21,993	25.2%		Central	LOW-to-MEDIUM
002	179.1		P02	E/O J SE - COULEE CITY	392	0.0%	Rec	Central	LOW
002	250.5		R064	W/O GUNNING RD - DAVENPORT	2,445	6.9%		Eastern	LOW
002	289.79		R021	N/O WALTON AVE - SPOKANE DIVISION ST	41,530	-8.5%		Eastern	MEDIUM
003	28.68		R089	S/O LAKE FLORA RD.- GRAPEVIEW	16,454	3.8%		Puget Sound	LOW-to-MEDIUM
003	44.33		R050	N/O NEWBERRY HILL I/C - SILVERDALE	49,385	18.5%		Western	MEDIUM
004	55.05		R078	W/O SR 432 AND COAL CREEK RD - LONGVIEW SR	5,032	7.0%		Western	LOW
005	44.3		P8	N/O WEIGH STATION - KELSO	50,108	9.2%		Western	MEDIUM
005	86.32		R019	S/O US 12 I/C - GRAND MOUND	60,254	8.5%		Puget Sound	MEDIUM
005	106.7		P4	AT BOULEVARD RD UXING - OLYMPIA	139,069	3.2%		Puget Sound	HIGH
005	111.01		R060	S/O SR 510 I/C -LACEY	115,593	11.6%		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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FEB 2016

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005	119.39		R091	N/O DUPONT I/C -DUPONT	121,527	12.4%		Puget Sound	HIGH
005	126.76		R092	S/O SR 512 I/C - TACOMA	143,414	1.2%		Puget Sound	HIGH
005	136.8		S837	S/O SR 99 I/C - FIFE	188,663	6.3%		Puget Sound	HIGH
005	168.84		R046	N/O ROANOKE ST UXING - SEATTLE	203,707	-3.9%		Puget Sound	HIGH
005	184.48		P1	N/O 164TH STREET SW I/C - EVERETT	181,022	4.0%		Puget Sound	HIGH
005	207.78		R001	S/O SR 530 I/C - MARYSVILLE	85,222	10.4%		Puget Sound	MEDIUM
005	226.96		R093	N/O SR 536 I/C - MT. VERNON	68,002	7.9%		Western	MEDIUM
005	269.41		S803	S/O BIRCH BAY/LYNDEN RD I/C - CUSTER	27,512	13.9%		Western	LOW-to-MEDIUM
009	32.98		R083	N/O 53RD AVE NE - BRYANT	1,773	11.4%		Puget Sound	LOW
012	12.3		B02	W/O MONTE BRADY LOOP RD WYE CONN	19,518	-0.6%		Western	LOW-to-MEDIUM
012	135.1		R040W	W/O COAL CREEK BRIDGE - PACKWOOD	1,415	21.6%	Rec	Western	LOW
012	185.25		S818S	S/O SR 410 - WHITE PASS	1,617	7.4%	Rec	Central	LOW
012	185.62		S818E	E/O SR 410 - NACHES	2,808	0.5%	Rec	Central	LOW
012	307.9		R008	E/O US 730 WALLULA SPUR	6,996	23.5%		Eastern	LOW
012	376.98		P05	W/O TUCANNON RIVER BR - DAYTON	1,672	-5.4%		Central	LOW
014	17.7		P07	E/O 32ND ST - WASHOUGAL	6,180	11.3%		Western	LOW

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+Volume Group

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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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014	102.27		R077	W/O MARYHILL RD - STONEHENGE	1,301	-13.9%		Central	LOW
016	8.43		R044	W/O TACOMA NARROWS BR - TACOMA	78,682	-3.9%		Puget Sound	MEDIUM
016	18.65		R088	W/O SR 302 PURDY SPUR - BURLEY	48,475	19.8%		Puget Sound	MEDIUM
017	30.37		R020	S/O LEE ROAD - OTHELLO	6,332	28.1%		Central	LOW
018	5.26		P20	E/O SR 164 I/C - AUBURN EAST	58,746	19.5%		Puget Sound	MEDIUM
018	12.55		D12	AT 180TH AVE SE UXING - COVINGTON	34,078	37.9%		Puget Sound	LOW-to-MEDIUM
018	27.62		S838	S/O I-90 I/C - ECHO GLEN	22,763	37.6%		Puget Sound	MEDIUM
020	20.02		S706	E/O RHODODENDRON PARK DR - COUPEVILLE	8,022	1.5%		Puget Sound	MEDIUM
020	191.9		R037	W/O RADER ROAD - WINTHROP	1,213	18.3%	Rec	Central	LOW
020	304.6		S820	W/O FAIRGROUNDS ROAD-REPUBLIC	2,045	-4.3%		Eastern	LOW
024	43.5		S612	AT COLUMBIA RVR BRIDGE - VERNITA BRIDGE	3,939	32.4%		Central	LOW
025	97		P27	N/O BOSSBURG ROAD - BOSSBURG	332	-13.8%		Eastern	LOW
026	43.06		R066	E/O SR 17 I/C - OTHELLO	2,305	18.4%	Rec	Central	LOW
082	24.83		R048	E/O SELAH CR REST AREA ON RAMP - SELAH	15,729	18.7%		Central	LOW-to-MEDIUM
082	132.03		R086	E/O SR 14 - WALLULA	18,757	33.1%		Central	LOW-to-MEDIUM
090	4.22		R017	E. END OF MT BAKER TUNNEL- SEATTLE	125,610	7.5%		Puget Sound	HIGH

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090	23.54		S826	E/O JONES ROAD I/C - PRESTON	59,109	30.6%		Puget Sound	MEDIUM
090	33.56		R039	W/O 468TH AVE SE I/C-NORTH BEND	31,978	17.2%	Rec	Puget Sound	LOW-to-MEDIUM
090	47.71		S901	AT TINKHAM ROAD UXING -TINKHAM RD	29,181	18.7%	Rec	Western	LOW-to-MEDIUM
090	82.7		B04	W/O W FIRST STREET I/C - CLE ELUM	23,879	14.4%	Rec	Central	LOW-to-MEDIUM
090	136.59		R042	E/O HUNTZINGER ROAD I/C - VANTAGE	11,860	16.3%	Rec	Central	LOW-to-MEDIUM
090	180.33		R055	E/O SR 17 I/C - MOSES LAKE	9,198	15.1%	Rec	Central	LOW-to-MEDIUM
090	254.23		R014	E/O FISHTRAP ROAD I/C -FISHTRAP	15,305	19.2%		Eastern	LOW-to-MEDIUM
090	285.23		R036	W/O SPRAGUE AVE I/C - SPOKANE	118,083	14.5%		Eastern	HIGH
097	178.19		R047S	S/O OLD BLEWETT ROAD -BLEWETT PASS	4,387	19.6%	Rec	Central	LOW
097	201.53	*AR	R059	N/O OHME GARDEN RD/WAREHOUSE RD - WENATC	5,520	13.0%		Central	LOW
097	220.55		R084	N/O BRAYS ROAD - ORONDO	4,399	20.2%		Central	LOW
097	250.35		P11	N/O COUNTY ROAD NO 1525 - PATEROS	4,080	22.3%		Central	LOW
097	286.16		P23	S/O SR 20 - OKANOGAN	3,467	-0.7%		Central	LOW
097	293.42		R068	N/O COPPLE ROAD - OMAK	4,706	7.5%		Central	LOW
101	0.6		S841W	NW/O SR 401 - CHINOOK	5,854	19.5%		Western	LOW
101	28.95		R074	N/O SR 4 - NEMAH	2,206	15.3%	Rec	Western	LOW

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+Volume Group

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MEDIUM (40,000 -< 100,000 vehicles per day)
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101	203.93		R073	E/O SR 113/BURNT MOUNTAIN RD	2,243	8.0%		Western	LOW
101	254.35		R069	AT WEIGH STATION-PORT ANGELES	21,711	0.3%		Western	LOW-to-MEDIUM
101	281.15		R023	S/O ORCAS AND HOLLAND DRIVES -DISCOVERY BA	10,678	10.4%		Western	LOW-to-MEDIUM
101	324.8		P18	S/O EAGLE CREEK BRIDGE - LILLIWAUP	2,010	2.9%	Rec	Puget Sound	LOW
101	361.37		R003N	N/O SR 8 - OLYMPIA	30,547	6.6%		Puget Sound	LOW-to-MEDIUM
104	13.92		R085	AT HOOD CANAL BRIDGE	15,445	4.0%		Puget Sound	LOW-to-MEDIUM
104	19.48		R095	W/O OLD PORT GAMBLE ROAD WYE CONN -KINGST	4,829	-5.7%		Puget Sound	LOW
105	31.92		R043	AT ELK RIVER BRIDGE - WESTPORT	4,667	-10.0%		Western	LOW
182	6.34		R081	AT COLUMBIA RIVER BRIDGE-PASCO	62,824	53.4%		Eastern	MEDIUM
195	6.01		P13	S/O BAUER RD 9440 - UNIONTOWN	4,553	3.8%		Eastern	LOW
195	87.7		P15	N/O WASHINGTON RD - SPANGLE	7,958	-4.3%		Eastern	LOW-to-MEDIUM
205	28.84		R051	N/O MILL PLAIN I/C - VANCOUVER	115,389	8.1%		Western	HIGH
221	13.1		P17	S/O SELLARDS RD - PROSSER	2,022	16.9%		Central	LOW
307	2.31		R096	S/O NE GUNDERSON RD.	17,352	14.8%		Puget Sound	LOW-to-MEDIUM
395	36.24		R061	N/O E ELM RD - ELTOPIA	13,648	31.3%		Eastern	LOW-to-MEDIUM
395	190.29		R063	S/O SR 292 - LOON LAKE	7,945	3.9%		Eastern	LOW-to-MEDIUM

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395	260		P26	N/O COUNTY ROAD - ORIENT	477	-19.4%		Eastern	LOW
401	0.15		S841E	NE/O US 101-MEGLER	2,292	5.7%		Western	LOW
405	9.26		D1	AT 112TH AVE SE UXING - BELLEVUE	146,623	7.3%		Puget Sound	HIGH
410	116.26		S818W	W/O SR 12 - CHINOOK PASS	1,336	-7.4%	Rec	Central	LOW
433	0.7		S503	AT COLUMBIA RIVER BR - LONGVIEW	21,877	15.2%		Western	LOW-to-MEDIUM
504	19.43		S840	E/O PRIVATE ROAD 1900 - KID VALLEY	328	-10.8%	Rec	Western	LOW
512	1.53		D3	W/O SR 7 I/C PARKLAND	90,011	-0.5%		Puget Sound	MEDIUM
518	0.35		D13	E/O SR 509 I/C - SEATAC	58,282	3.2%		Puget Sound	MEDIUM
520	4		D10	W/O 76TH AVE NE UXING -TOLLPlAZA	67,751	-32.3%		Puget Sound	MEDIUM
520	12.01		S547	E/O W.LAKE SAMM PKWY I/C	76,981	15.5%		Puget Sound	MEDIUM
522	13.3		P19	W/O SR 9 I/C - WOODINVILLE	50,612	23.6%		Puget Sound	MEDIUM
599	1.15		S839	E/O SR 99 I/C - TUKWILA	43,258	10.9%		Puget Sound	MEDIUM
970	6.85		R057	W/O TEANAWAY RD - TEANAWAY	3,480	21.2%	Rec	Central	LOW

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Prepared by the
WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
Multimodal Planning Division
Transportation Data & GIS Office

In cooperation with the
U.S. DEPARTMENT OF TRANSPORTATION
Federal Highway Administration

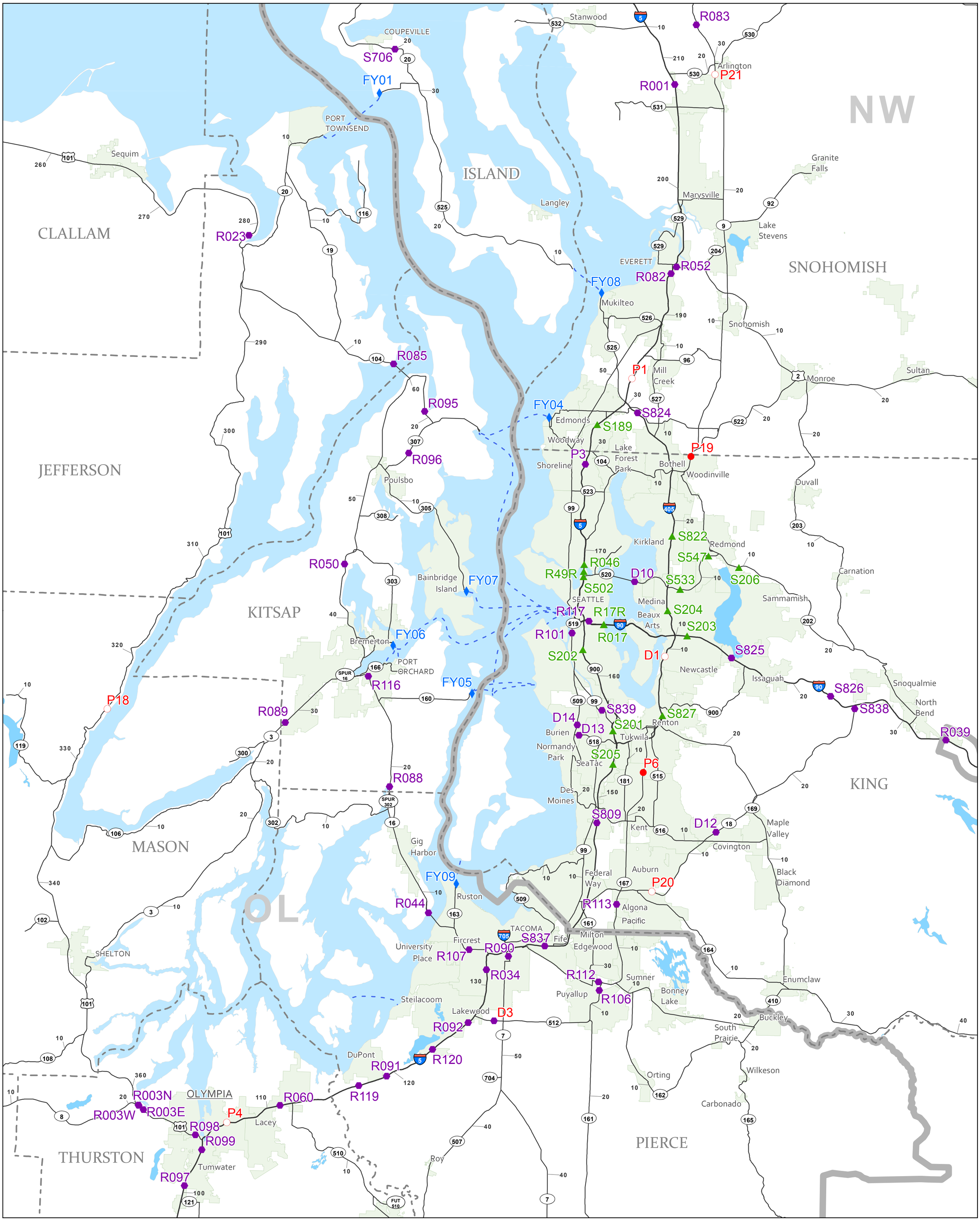
2015 Permanent Traffic Recorder Data Collection Sites

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 25 50 75 100 Kilometers
0 20 40 60 80 Miles
N

2015 Permanent Traffic Recorder Data Collection Sites



Legend

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