Permanent Traffic Recorder (PTR) Monthly Traffic Volume Trend Report

MULTIMODAL PLANNING DIVISION
TRANSPORTATION DATA AND GIS OFFICE (TDGO)

MAY 2016

Washington State Department of Transportation

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

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Permanent Traffic Recorder (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

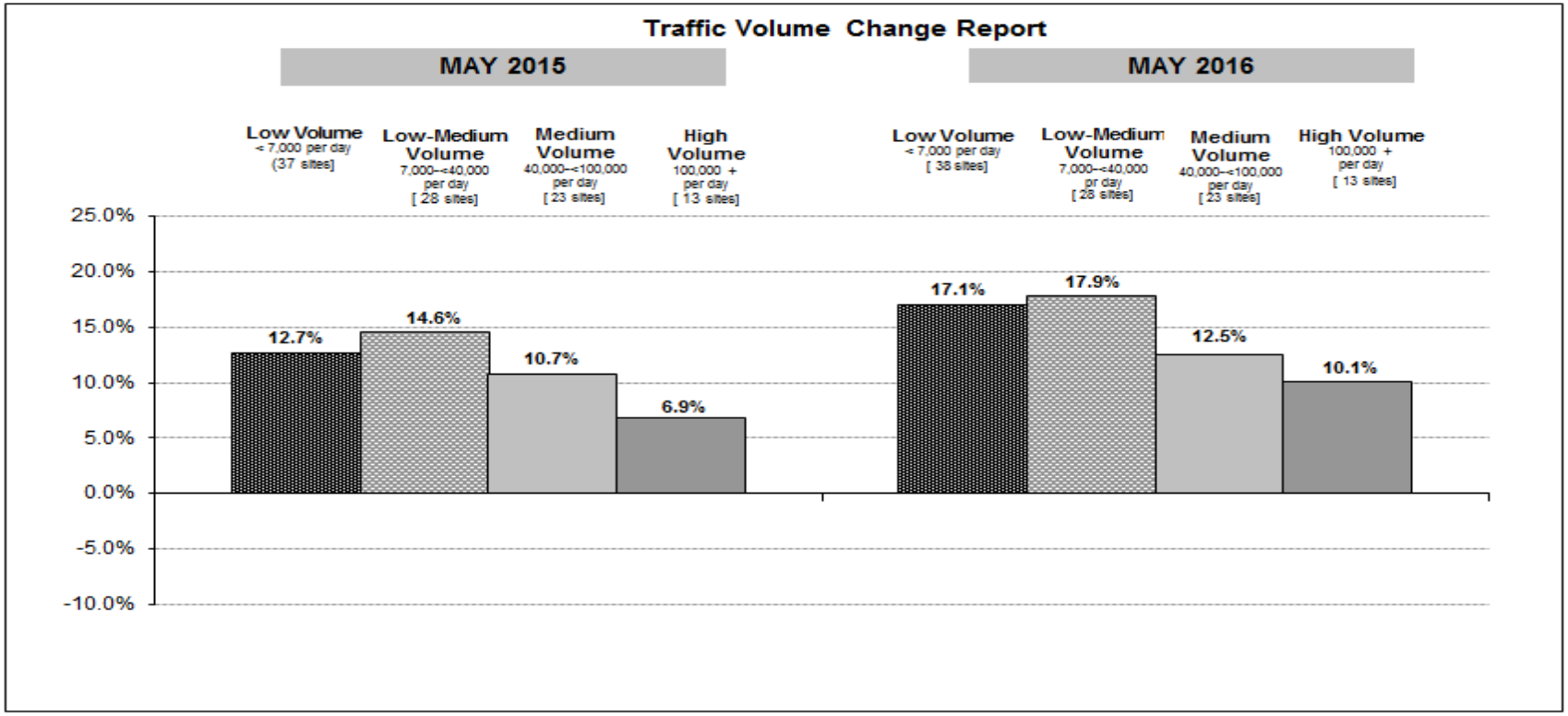
Executive Summary

This report provides information on traffic volume changes and trends. The data for this report is collected from 102 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 (+11.31**%)** when compared to the 5-year average from 2003 to 2007.

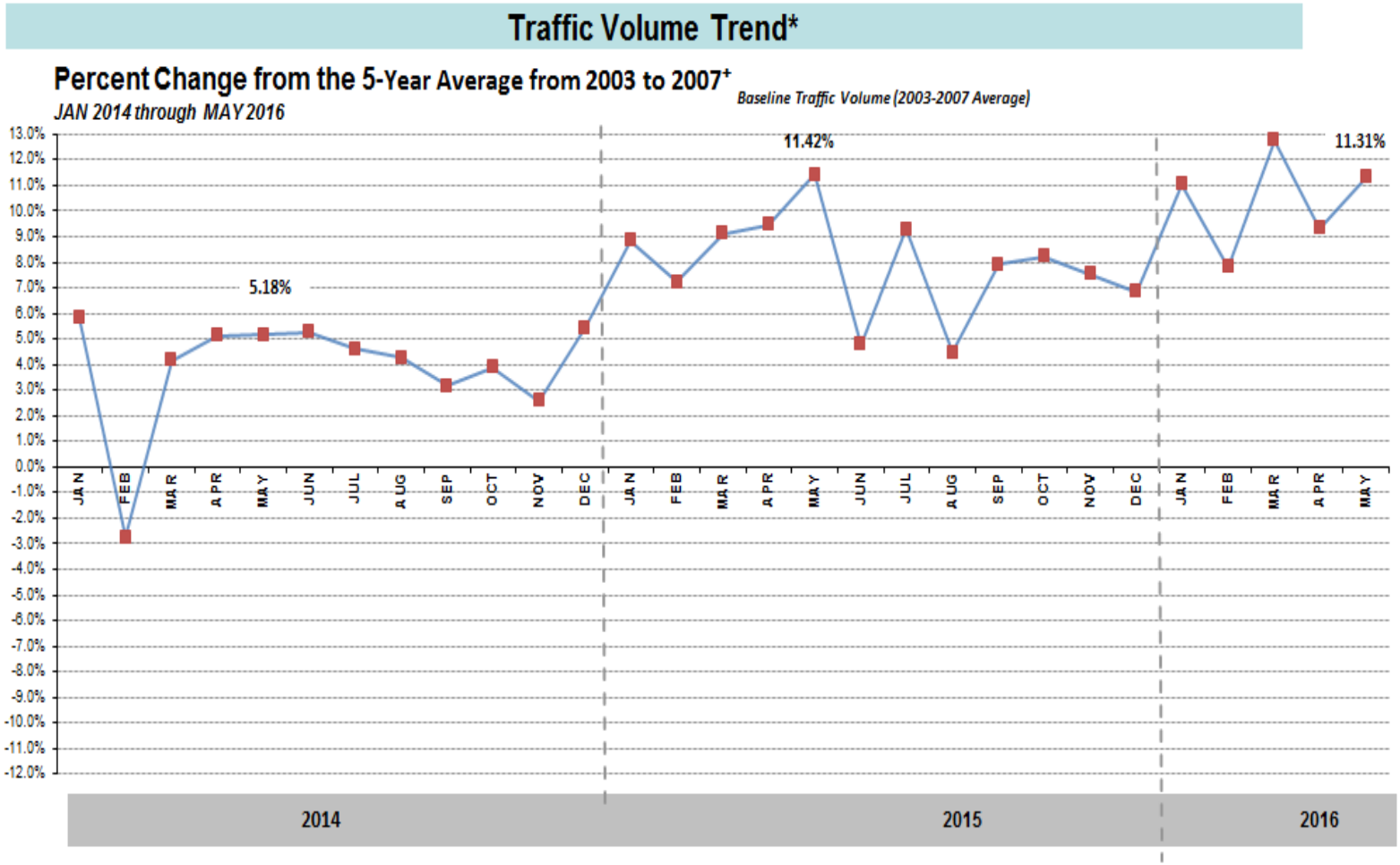
Traffic Volume Change Report for MAY 2016*

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



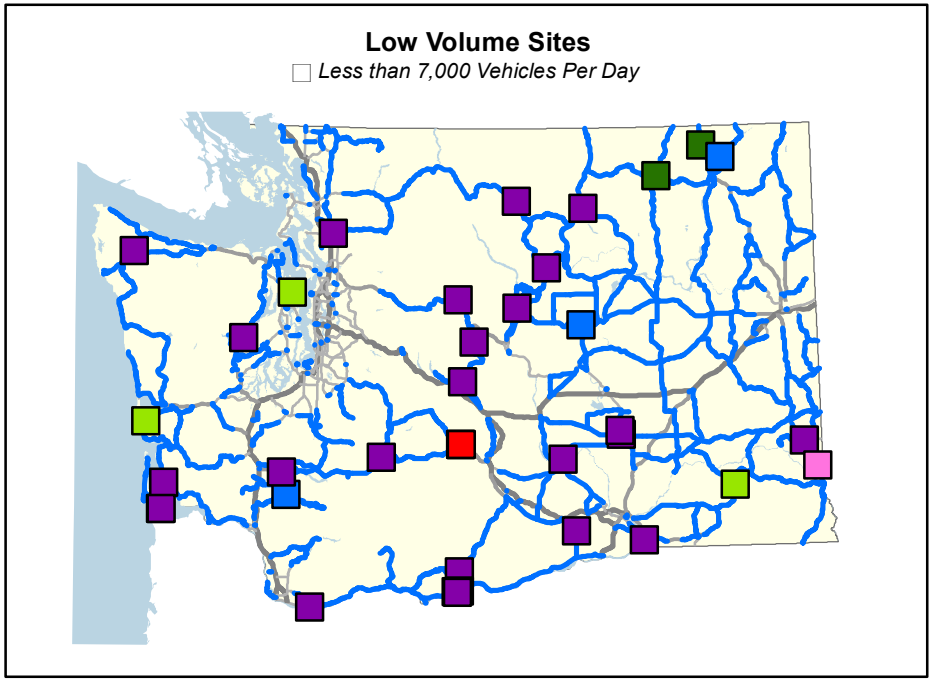
*Normal Traffic Volume is the expected level of volume for the month, which was forecasted by the five-year average (2003-2007) of traffic volume as a baseline (0.0%).
Unit of volume measurement is monthly average daily traffic (MADT).
Source: Transportation Data and GIS Office from Permanent Traffic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

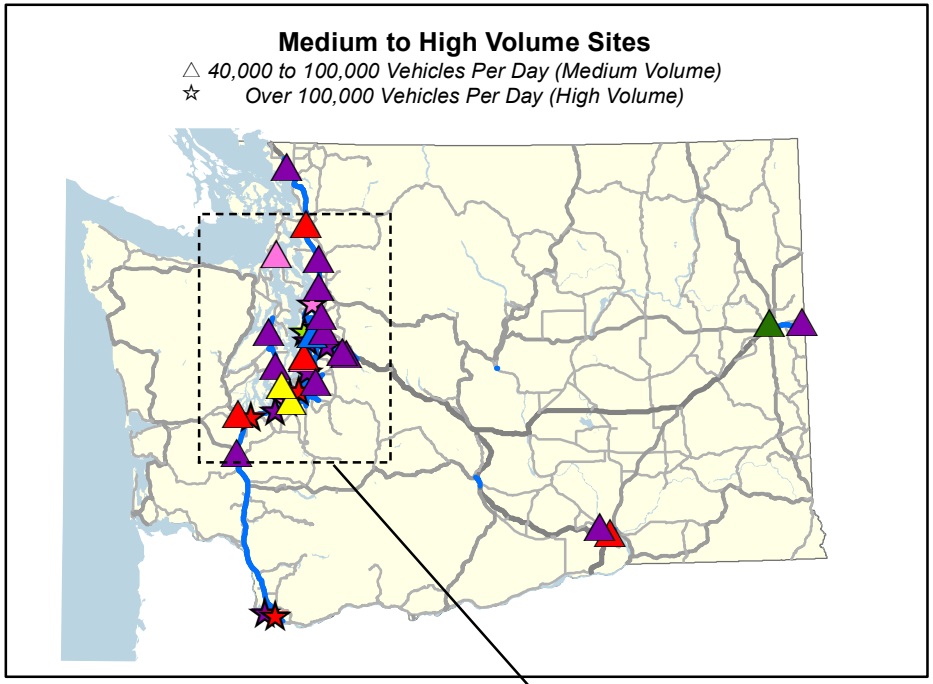
Compared to the traffic volume trend (average daily traffic) the overall traffic volumes for **May 2016** reflect an Increase of **(+11.31%).**

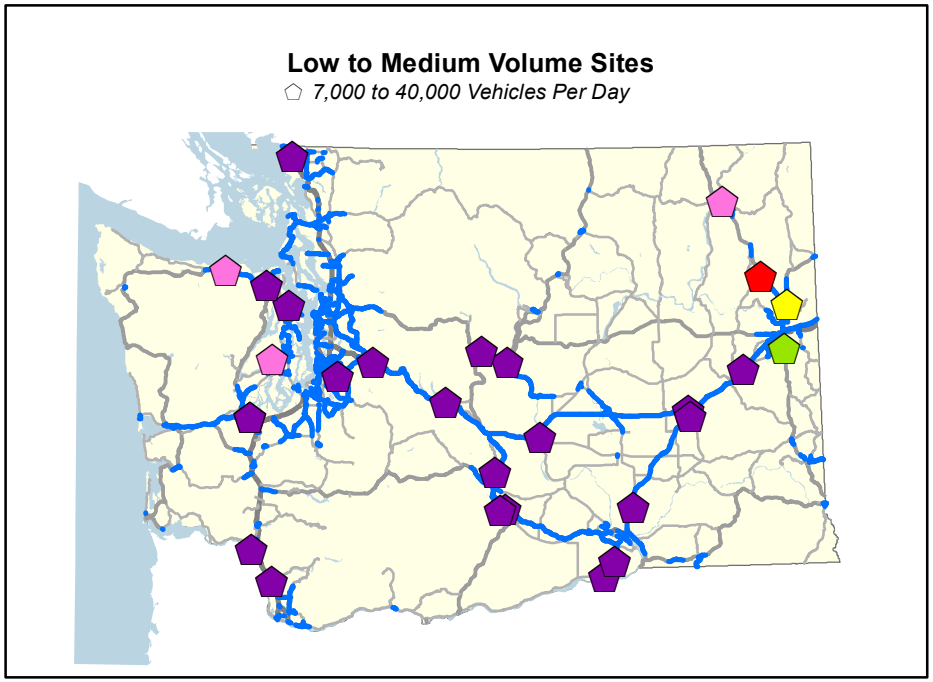


*Traffic Volume Trend is a weighted average of traffic volume changes among all reportable Permanent Traffic Recorder (PTR) sites. Weights are calculated proportional to the amount of monthly vehicle miles traveled (VMT, 2006-2012) based on highway volume. MAY16 Preliminary data.
+Normal Traffic Volume 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).

Volume Change at Permanent Traffic Recorder Sites - May 2016



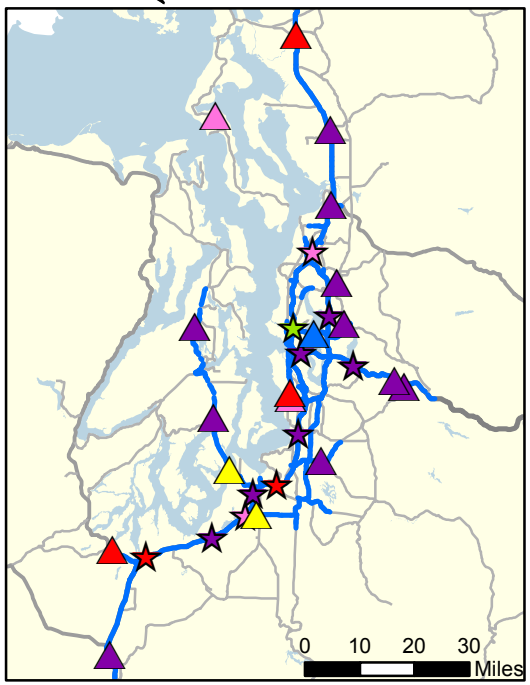




Percent Change

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

PERMANENT TRAFFIC RECORDER SITE MONTHLY COMPARISON TO PREVIOUS 5-YEAR AVERAGE OF SAME MONTH
MAY 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	80,341	13.7%		Puget Sound	MEDIUM
002	80.2		R058	E/O NASON RIDGE ROAD - COLES CORNER	5,166	22.3%	Rec	Central	LOW
002	104.84		R047E	E/O US 97 - DRYDEN	18,106	21.8%		Central	LOW-to-MEDIUM
002	119.77		R053	E/O US97AR I/C - WENATCHEE	26,397	24.6%		Central	LOW-to-MEDIUM
002	179.1		P02	E/O J SE - COULEE CITY	858	-21.3%	Rec	Central	LOW
002	289.79		R021	N/O WALTON AVE - SPOKANE DIVISION ST	42,235	-8.6%		Eastern	MEDIUM
002	301.4		P28	S/O NORWOOD ROAD - CHATTAROY	18,635	0.2%		Eastern	LOW-to-MEDIUM
003	28.68		R089	S/O LAKE FLORA RD. - GRAPEVIEW	18,249	5.0%		Puget Sound	LOW-to-MEDIUM
003	44.33		R050	N/O NEWBERRY HILL I/C - SILVERDALE	52,822	20.5%		Western	MEDIUM
005	1.98		P5	S/O SR 500/39TH ST I/C -VANCOUVER	139,258	12.5%		Western	HIGH
005	20.14		R045	S/O SR 503 I/C - WOODLAND	77,813	19.1%		Western	LOW-to-MEDIUM
005	86.32		R019	S/O US 12 I/C - GRAND MOUND	67,736	12.5%		Puget Sound	MEDIUM
005	106.7		P4	AT BOULEVARD RD UXING - OLYMPIA	149,706	7.3%		Puget Sound	HIGH
005	119.39		R091	N/O DUPONT I/C -DUPONT	130,935	15.2%		Puget Sound	HIGH
005	126.76		R092	S/O SR 512 I/C - TACOMA	152,898	4.6%		Puget Sound	HIGH
005	131.18		R034	N/O SO 56TH ST I/C - LAKEWOOD	201,827	16.1%		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

Washington State Department of Transportation

PERMANENT TRAFFIC RECORDER SITE MONTHLY COMPARISON TO PREVIOUS 5-YEAR AVERAGE OF SAME MONTH
MAY 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+
005	136.8		S837	S/O SR 99 I/C - FIFE	198,362	7.9%		Puget Sound	HIGH
005	148.07		S809	S/O SR 516 I/C - MIDWAY	211,749	10.1%		Puget Sound	HIGH
005	168.84		R046	N/O ROANOKE ST UXING - SEATTLE	210,096	-3.8%		Puget Sound	HIGH
005	184.48		P1	N/O 164TH STREET SW I/C - EVERETT	189,913	5.0%		Puget Sound	HIGH
005	207.78		R001	S/O SR 530 I/C - MARYSVILLE	91,872	10.4%		Puget Sound	MEDIUM
005	226.96		R093	N/O SR 536 I/C - MT. VERNON	74,460	9.6%		Western	MEDIUM
005	261.33		P04	N/O SLATER ROAD I/C - FERNDALE	51,900	16.8%		Western	MEDIUM
005	269.41		S803	S/O BIRCH BAY/LYNDEN RD I/C - CUSTER	32,567	22.4%		Western	LOW-to-MEDIUM
008	20.67		R003W	AT SR 101 OXING - OLYMPIA	19,053	11.0%		Puget Sound	LOW-to-MEDIUM
009	32.98		R083	N/O 53RD AVE NE - BRYANT	2,369	17.4%		Puget Sound	LOW
012	77.78		R075	E/O KENNEDY ROAD-SALKUM	7,745	10.3%		Western	LOW
012	135.1		R040W	W/O COAL CREEK BRIDGE - PACKWOOD	2,486	31.6%	Rec	Western	LOW
012	185.25		S818S	S/O SR 410 - WHITE PASS	2,938	18.5%	Rec	Central	LOW
012	185.62		S818E	E/O SR 410 - NACHES	5,111	8.2%	Rec	Central	LOW
012	307.9		R008	E/O US 730 WALLULA SPUR	8,218	24.4%		Eastern	LOW
012	376.98		P05	W/O TUCANNON RIVER BR - DAYTON	2,218	-5.1%		Central	LOW

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

*Alternate Route

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MAY 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+
014	17.7		P07	E/O 32ND ST - WASHOUGAL	7,926	19.6%		Western	LOW
014	100.64		R076	W/O SR 14 MARYHILL SPUR -MARYHILL	2,391	14.5%		Central	LOW
014	102.27		R077	W/O MARYHILL RD - STONEHENGE	1,636	-14.3%		Central	LOW
016	8.43		R044	W/O TACOMA NARROWS BR - TACOMA	85,897	-0.6%		Puget Sound	MEDIUM
016	18.65		R088	W/O SR 302 PURDY SPUR - BURLEY	53,155	22.8%		Puget Sound	MEDIUM
017	30.37		R020	S/O LEE ROAD - OTHELLO	7,161	31.5%		Central	LOW
018	5.26		P20	E/O SR 164 I/C - AUBURN EAST	66,447	23.6%		Puget Sound	MEDIUM
018	12.55		D12	AT 180TH AVE SE UXING - COVINGTON	39,674	39.5%		Puget Sound	LOW-to-MEDIUM
018	27.62		S838	S/O I-90 I/C - ECHO GLEN	27,923	39.8%		Puget Sound	MEDIUM
020	20.02		S706	E/O RHODODENDRON PARK DR - COUPEVILLE	9,042	3.5%		Puget Sound	MEDIUM
020	191.9		R037	W/O RADER ROAD - WINTHROP	2,677	22.9%	Rec	Central	LOW
020	304.6		S820	W/O FAIRGROUNDS ROAD-REPUBLIC	2,441	-6.4%		Eastern	LOW
024	43.5		S612	AT COLUMBIA RVR BRIDGE - VERNITA BRIDGE	5,137	42.1%		Central	LOW
025	97		P27	N/O BOSSBURG ROAD - BOSSBURG	343	-10.5%		Eastern	LOW
026	43.06		R066	E/O SR 17 I/C - OTHELLO	3,255	20.7%	Rec	Central	LOW
082	24.83		R048	E/O SELAH CR REST AREA ON RAMP - SELAH	19,930	19.9%		Central	LOW-to-MEDIUM

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082	48.5		P08	W/O SR 22 I/C - BUENA	28,732	18.3%		Central	LOW-to-MEDIUM
082	121.2		P09	W/O COFFIN RD I/C - PLYMOUTH	20,627	32.2%		Eastern	LOW-to-MEDIUM
082	132.03		R086	E/O SR 14 - WALLULA	22,519	37.7%		Central	LOW-to-MEDIUM
090	4.22		R017	E. END OF MT BAKER TUNNEL - SEATTLE	136,920	15.1%		Puget Sound	HIGH
090	14.65		S825	W/O SR 900 I/C - ISSAQUAH	133,804	13.4%		Puget Sound	HIGH
090	23.54		S826	E/O JONES ROAD I/C - PRESTON	67,280	32.1%		Puget Sound	MEDIUM
090	33.56		R039	W/O 468TH AVE SE I/C-NORTH BEND	41,584	23.6%	Rec	Puget Sound	LOW-to-MEDIUM
090	82.7		B04	W/O W FIRST STREET I/C - CLE ELUM	35,794	17.2%	Rec	Central	LOW-to-MEDIUM
090	136.59		R042	E/O HUNTZINGER ROAD I/C - VANTAGE	18,318	15.9%	Rec	Central	LOW-to-MEDIUM
090	218.83		P10	W/O US 395 I/C - RITZVILLE	11,884	12.9%	Rec	Eastern	LOW-to-MEDIUM
090	254.23		R014	E/O FISHTRAP ROAD I/C -FISHTRAP	21,055	20.1%		Eastern	LOW-to-MEDIUM
090	298.4		P24	W/O SPOKANE BRIDGE RD I/C - SPOKANE	57,794	22.8%		Eastern	MEDIUM
097	13.41		R041	N/O STATE FRONTAGE RD - GOLDENDALE	5,715	16.5%		Central	LOW
097	66.3		P03	S/O PROGRESSIVE ROAD WYE CONN - WAPATO	13,980	17.0%		Central	LOW-to-MEDIUM
097	178.19		R047S	S/O OLD BLEWETT ROAD -BLEWETT PASS	6,756	16.8%	Rec	Central	LOW
097	201.53	*AR	R059	N/O OHME GARDEN RD/WAREHOUSE RD - WENATC	8,167	18.0%		Central	LOW

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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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MAY 2016

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097	220.55		R084	N/O BRAYS ROAD - ORONDO	5,525	23.5%		Central	LOW
097	250.35		P11	N/O COUNTY ROAD NO 1525 - PATEROS	5,204	25.0%		Central	LOW
097	293.42		R068	N/O COPPLE ROAD - OMAK	6,058	13.1%		Central	LOW
101	0.6		S841W	NW/O SR 401 - CHINOOK	6,731	18.0%		Western	LOW
101	28.95		R074	N/O SR 4 - NEMAH	2,831	19.9%	Rec	Western	LOW
101	203.93		R073	E/O SR 113/BURNT MOUNTAIN RD	3,088	27.9%		Western	LOW
101	254.35		R069	AT WEIGH STATION-PORT ANGELES	24,719	5.7%		Western	LOW-to-MEDIUM
101	281.15		R023	S/O ORCAS AND HOLLAND DRIVES -DISCOVERY BA	13,594	19.6%		Western	LOW-to-MEDIUM
101	324.8		P18	S/O EAGLE CREEK BRIDGE - LILLIWAUP	3,359	15.2%	Rec	Puget Sound	LOW
101	361.37		R003N	N/O SR 8 - OLYMPIA	33,619	9.2%		Puget Sound	LOW-to-MEDIUM
101	362.02		R003E	E/O SR 8 - OLYMPIA	52,411	9.3%		Puget Sound	MEDIUM
104	13.92		R085	AT HOOD CANAL BRIDGE	18,909	10.6%		Puget Sound	LOW-to-MEDIUM
104	19.48		R095	W/O OLD PORT GAMBLE ROAD WYE CONN -KINGST	5,918	-2.9%		Puget Sound	LOW
105	31.92		R043	AT ELK RIVER BRIDGE - WESTPORT	5,460	-6.0%		Western	LOW
182	6.34		R081	AT COLUMBIA RIVER BRIDGE-PASCO	67,943	50.9%		Eastern	MEDIUM
195	6.01		P13	S/O BAUER RD 9440 - UNIONTOWN	5,111	4.1%		Eastern	LOW

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195	22.2		P14	S/O SR 270 - PULLMAN	3,874	21.3%		Eastern	LOW
195	87.7		P15	N/O WASHINGTON RD - SPANGLE	8,911	-3.0%		Eastern	LOW-to-MEDIUM
205	28.84		R051	N/O MILL PLAIN I/C - VANCOUVER	121,141	9.7%		Western	HIGH
221	13.1		P17	S/O SELLARDS RD - PROSSER	2,335	21.4%		Central	LOW
395	18.58		R087	AT COLUMBIA RIVER BRIDGE - KENNEWICK	63,372	9.0%		Central	MEDIUM
395	36.24		R061	N/O E ELM RD - ELTOPIA	16,725	34.0%		Eastern	LOW-to-MEDIUM
395	93.01		P7C	S/O I-90 I/C - RITZVILLE	9,008	24.8%		Eastern	LOW-to-MEDIUM
395	190.29		R063	S/O SR 292 - LOON LAKE	9,672	7.9%		Eastern	LOW-to-MEDIUM
395	235.6		R070	N/O GREENWOOD LOOP RD	8,618	4.6%		Eastern	LOW-to-MEDIUM
395	260		P26	N/O COUNTY ROAD - ORIENT	621	-9.7%		Eastern	LOW
401	0.15		S841E	NE/O US 101-MEGLER	2,801	15.2%		Western	LOW
405	18.71		S822	N/O SR 908 I/C - REDMOND	206,175	18.2%		Puget Sound	HIGH
410	116.26		S818W	W/O SR 12 - CHINOOK PASS	2,366	-1.9%	Rec	Central	LOW
433	0.7		S503	AT COLUMBIA RIVER BR - LONGVIEW	23,402	17.5%		Western	LOW-to-MEDIUM
504	19.43		S840	E/O PRIVATE ROAD 1900 - KID VALLEY	914	-11.5%	Rec	Western	LOW
509	26.37		D14	N/O SR 518 I/C - BURIEN	63,006	7.5%		Puget Sound	MEDIUM

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

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MAY 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+
512	1.53		D3	W/O SR 7 I/C PARKLAND	92,692	1.6%		Puget Sound	MEDIUM
518	0.35		D13	E/O SR 509 I/C - SEATAC	60,642	2.0%		Puget Sound	MEDIUM
520	4		D10	W/O 76TH AVE NE UXING -TOLLPLAZA	71,929	-30.1%		Puget Sound	MEDIUM
520	12.01		S547	E/O W.LAKE SAMM PKWY I/C	80,489	17.7%		Puget Sound	MEDIUM
522	13.3		P19	W/O SR 9 I/C - WOODINVILLE	52,722	22.7%		Puget Sound	MEDIUM
970	6.85		R057	W/O TEANAWAY RD - TEANAWAY	5,634	21.2%	Rec	Central	LOW

+Volume Group

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

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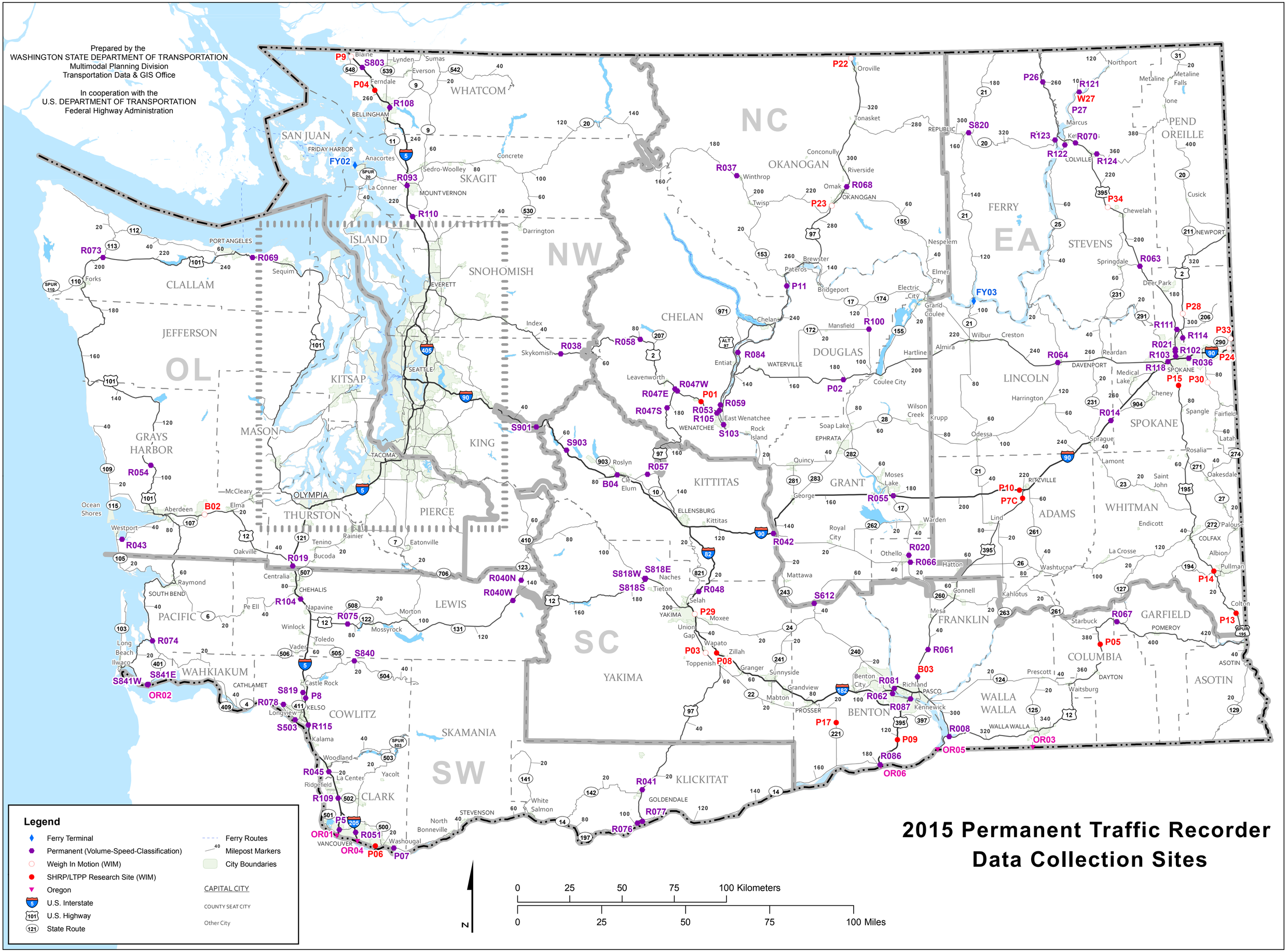

2015 Permanent Traffic Recorder Data Collection Sites

2015 Permanent Traffic Recorder Data Collection Sites

0 6.5 13 Kilometers

0 8 16 Miles

N

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