

# Permanent Traffic Recorder Data Collection Report

MULTI-MODAL PLANNING DIVISION  
TRANSPORTATION DATA AND GIS OFFICE (TDGO)

MAY 2014



**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 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](mailto: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](mailto:tdgoadc@wsdot.wa.gov). If you are an Internal employee of Department of Transportation you can access the data through the Traffic Datamart.

# Executive Summary

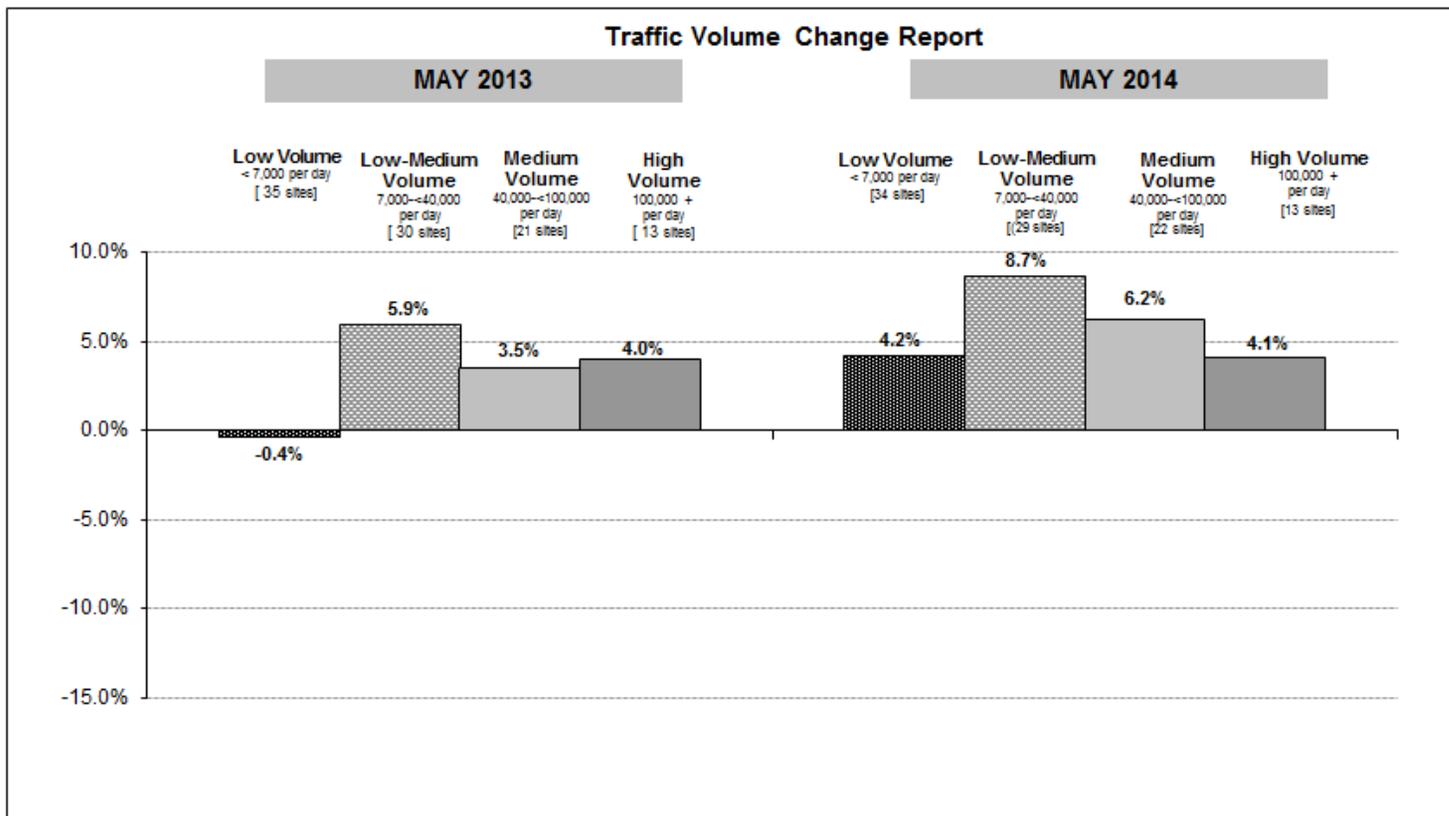
This report provides information on traffic volume changes and trends. The data for this report is collected from 98 Permanent Traffic Recorder (PTR) sites on state highways.

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 (+5.18%) when compared to the 5-year average from 2003 to 2007.

## Traffic Volume Change Report for MAY 2014\*

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

By Highway Volume

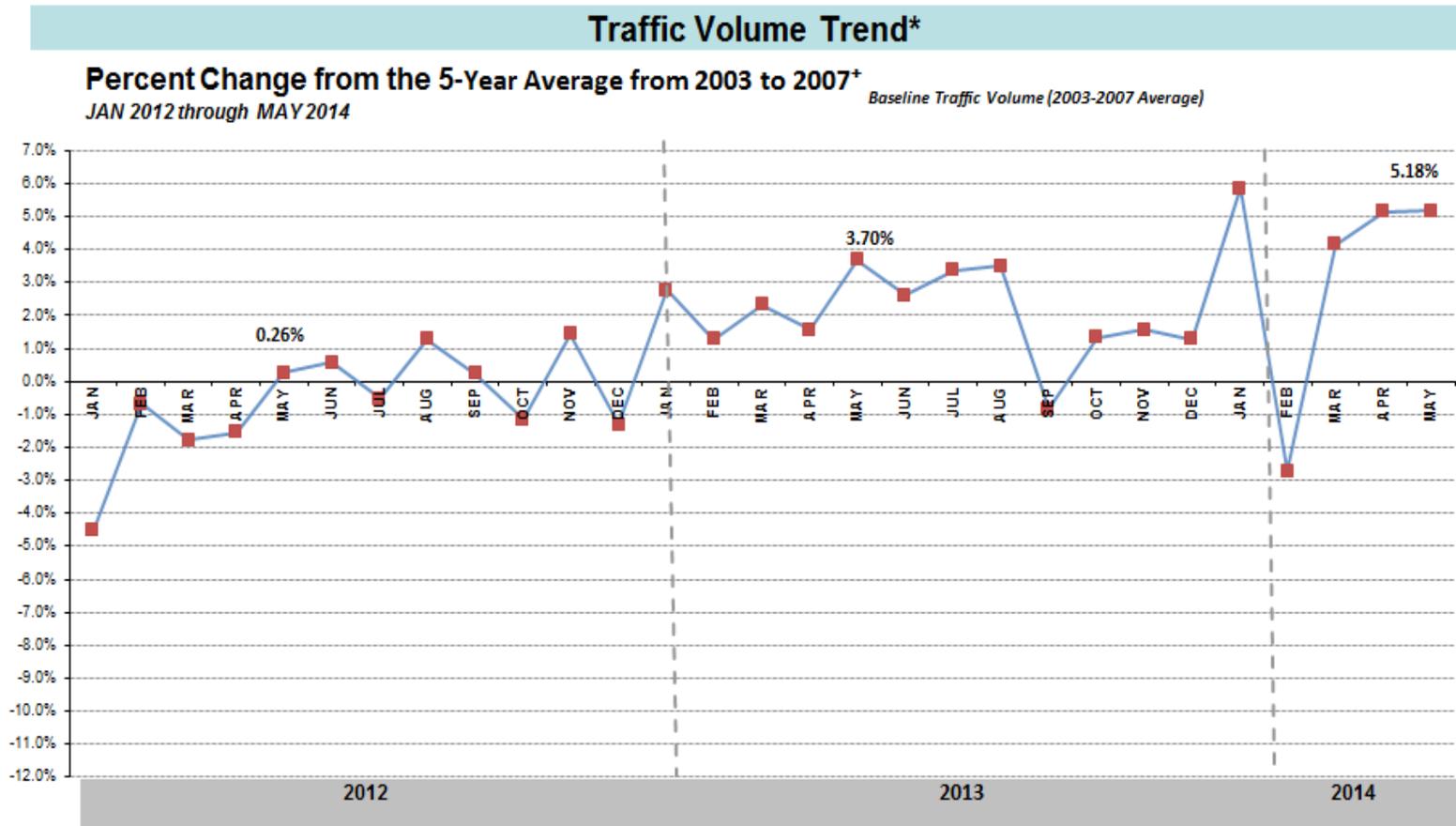


\*Normal Traffic Volume is the expected level of volume for the month, which was forecasted by the five-year average (2003-2007) of traffic volume as a baseline (0.0%).

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 **May 2014** reflect an increase of **(+5.18%)**.

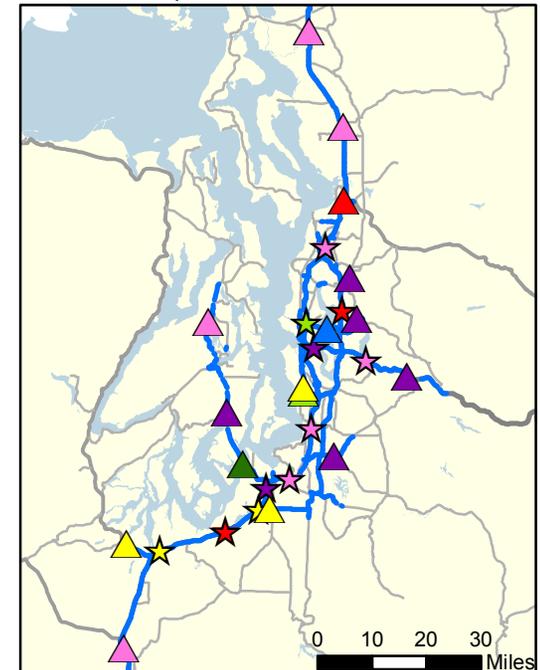
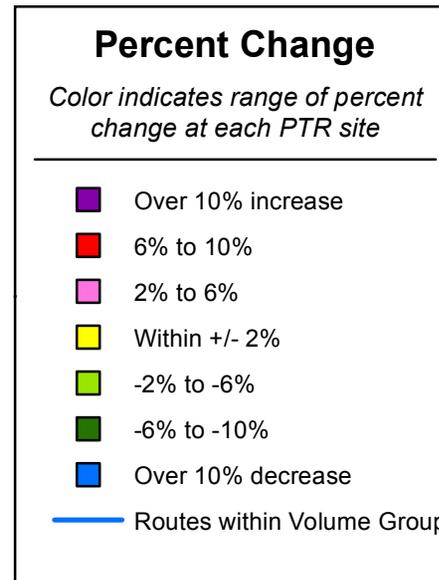
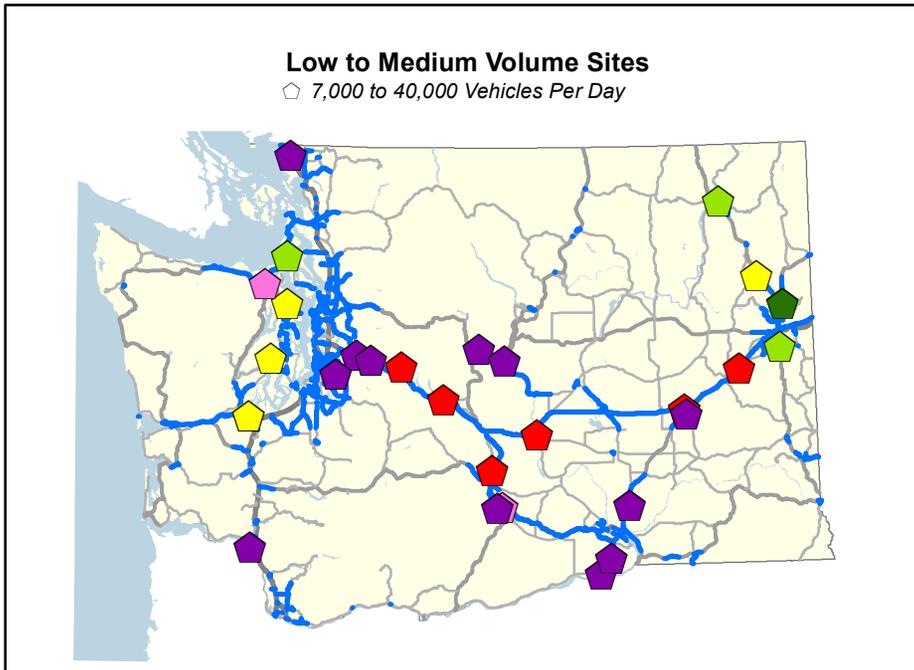
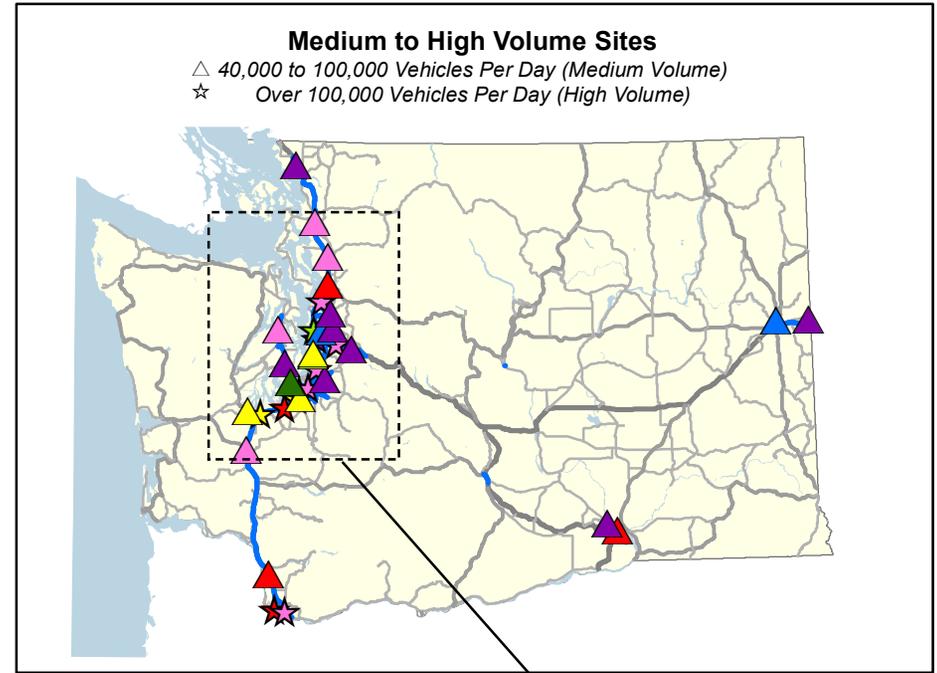
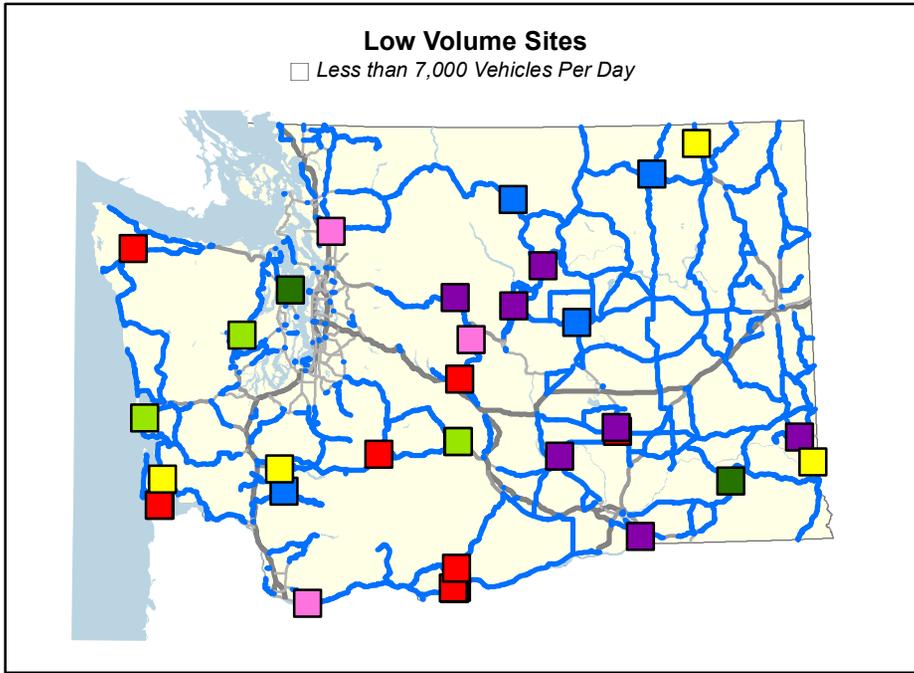


\*Traffic Volume Trend is a weighted average of traffic volume changes among all reportable Permanent Traffic Recorder (PTR) sites. Weights are calculated proportional to the amount of monthly vehicle miles traveled (VMT, 2008-2012) based on highway volume. MAY14 Preliminary data.  
 +Normal Traffic 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:

- Jan 2012 - Winter storm - Ice/Snow with widespread power outages.
- Feb 2014 - Multiple storms, floods, and road closures.

# Volume Change at Permanent Traffic Recorder Sites - May 2014



**PERMANENT TRAFFIC RECORDER SITE MONTHLY COMPARISON TO PREVIOUS 5-YEAR AVERAGE OF SAME MONTH  
MAY 2014**

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+
2	0.26		R052	E/O I-5 I/C - EVERETT	77,402	9.5%		Puget Sound	MEDIUM
2	80.2		R058	E/O NASON RIDGE ROAD	4,687	10.9%	Rec	Central	LOW
2	104.84		R047E	E/O US 97 - DRYDEN	16,893	13.7%		Central	LOW-to-MEDIUM
2	119.77		R053	E/O US 97AR I/C - WENATCHEE	24,062	13.6%		Central	LOW-to-MEDIUM
2	179.1		P02	E/O J SE - COULEE CITY	790	-27.5%	Rec	Central	LOW
2	289.79		R021	N/O WALTON AVE - SPOKANE	41,198	-10.9%		Eastern	MEDIUM
2	301.4		P28	S/O NORWOOD ROAD - CHATTAROY	17,254	-7.2%		Eastern	LOW-to-MEDIUM
3	28.68		R089	S/O LAKE FLORA RD.- GRAPEVIEW	17,287	-0.6%		Puget Sound	LOW-to-MEDIUM
3	44.33		R050	N/O NEWBERRY HILL I/C - SILVERDALE	45,743	4.4%		Western	MEDIUM
5	1.98		P5	S/O SR 500/39TH ST I/C -VANCOUVER	133,969	8.2%		Western	HIGH
5	20.14		R045	S/O SR 503 I/C - WOODLAND	69,820	6.9%		Western	MEDIUM
5	86.32		R019	S/O US 12 I/C - GRAND MOUND	62,741	4.2%		Puget Sound	MEDIUM
5	106.7		P4	S/O PACIFIC AVENUE I/C -OLYMPIA	140,909	1.0%		Puget Sound	HIGH
5	119.39		R091	N/O DUPONT I/C -DUPONT	123,096	8.3%		Puget Sound	HIGH
5	126.76		R092	S/O SR 512 I/C - TACOMA	146,126	0.0%		Puget Sound	HIGH
5	131.18		R034	N/O SO 56TH ST I/C - TACOMA	191,464	10.1%		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

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MAY 2014**

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+
5	136.8		S837	S/O SR 99 I/C - FIFE	191,346	4.1%		Puget Sound	HIGH
5	148.07		S809	S/O SR 516 I/C - MIDWAY	197,484	2.7%		Puget Sound	HIGH
5	168.84		R046	S/O NE 45TH STREET I/C - SEATTLE	207,276	-5.1%		Puget Sound	HIGH
5	184.48		P1	N/O 164TH STREET SW I/C - EVERETT	185,278	2.5%		Puget Sound	HIGH
5	207.78		R001	S/O SR 530 I/C - MARYSVILLE	87,784	5.5%		Puget Sound	MEDIUM
5	226.96		R093	N/O SR 536 I/C - MT. VERNON	69,684	2.6%		Western	MEDIUM
5	261.33		P04	N/O SLATER ROAD I/C - FERNDALE	52,091	17.2%		Western	MEDIUM
5	269.41		S803	S/O BIRCH BAY/LYNDEN RD I/C - CUSTER	33,068	24.3%		Western	LOW-to-MEDIUM
8	20.67		R003W	AT US 101 OXING - OLYMPIA	17,507	2.0%		Puget Sound	LOW-to-MEDIUM
9	32.98		R083	N/O 53RD AVE NE - BRYANT	2,087	3.5%		Puget Sound	LOW
12	77.78		R075	E/O KENNEDY ROAD-SALKUM	6,907	-1.6%		Western	LOW
12	135.1		R040W	W/O COAL CREEK BRIDGE - PACKWOOD	2,023	7.1%	Rec	Western	LOW
12	185.62		S818E	E/O SR 410 - NACHES	4,458	-5.6%	Rec	Central	LOW
12	307.9		R008	E/O US 730 WALLULA SPUR	7,451	12.8%		Eastern	LOW
12	376.98		P05	W/O TUCANNON RIVER BR - DAYTON	2,193	-6.2%		Central	LOW
14	17.7		P07	E/O 32ND ST - WASHOUGAL	6,956	5.0%		Western	LOW

+Volume Group

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- HIGH (100,000 + vehicles per day)

\*Alternate Route

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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+
14	100.64		R076	W/O SR 14 MARYHILL SPUR -MARYHILL	2,277	9.0%		Central	LOW
14	102.27		R077	W/O MARYHILL RD - STONEHENGE	1,714	-10.2%		Central	LOW
16	8.43		R044	W/O TACOMA NARROWS BR - TACOMA	81,047	-6.2%		Puget Sound	MEDIUM
16	18.65		R088	W/O SR 302 PURDY SPUR - BURLEY	48,081	11.0%		Puget Sound	MEDIUM
17	30.37		R020	S/O LEE ROAD - OTHELLO	6,613	21.4%		Central	LOW
18	5.26		P20	E/O SR 164 I/C - AUBURN EAST	61,064	13.6%		Puget Sound	MEDIUM
18	12.55		D12	AT 180TH AVE SE UXING - COVINGTON	35,898	26.2%		Puget Sound	LOW-to-MEDIUM
18	27.62		S838	S/O I-90 I/C - ECHO GLEN	25,523	27.8%		Puget Sound	LOW-to-MEDIUM
20	20.02		S706	E/O RHODODENDRON PARK DR - COUPEVILLE	8,424	-3.5%		Puget Sound	LOW-to-MEDIUM
20	191.9		R037	W/O RADER ROAD - WINTHROP	1,915	-12.1%	Rec	Central	LOW
20	304.6		S820	W/O FAIRGROUNDS ROAD-REPUBLIC	2,334	-10.5%		Eastern	LOW
24	43.5		S612	AT COLUMBIA RVR BRIDGE - VERNITA BRIDGE	4,442	22.9%		Central	LOW
26	43.06		R066	E/O SR 17 I/C - OTHELLO	2,884	6.9%	Rec	Central	LOW
82	24.83		R048	E/O SELAH CR REST AREA ON RAMP - SELAH	18,016	8.4%		Central	LOW-to-MEDIUM
82	48.5		P08	W/O SR 22 I/C - BUENA	25,571	5.3%		Central	LOW-to-MEDIUM
82	121.2		P09	W/O COFFIN RD I/C - PLYMOUTH	18,057	15.7%		Eastern	LOW-to-MEDIUM

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82	132.03		R086	E/O SR 14 - WALLULA	19,558	19.6%		Central	LOW-to-MEDIUM
90	4.22		R017	AT E. END OF MT BAKER TUNNEL- SEATTLE	136,458	14.7%		Puget Sound	HIGH
90	14.65		S825	W/O SR 900 I/C - ISSAQUAH	122,082	3.5%		Puget Sound	HIGH
90	23.54		S826	E/O JONES ROAD I/C - PRESTON	63,490	24.6%		Puget Sound	MEDIUM
90	33.56		R039	W/O 468TH AVE SE I/C-NORTH BEND	37,062	10.2%	Rec	Puget Sound	LOW-to-MEDIUM
90	52.24		S902	AT SR 906 OXING - SNOQUALMIE	31,527	6.8%	Rec	Western	LOW-to-MEDIUM
90	82.7		B04	W/O W FIRST STREET I/C - CLE ELUM	32,815	7.4%	Rec	Central	LOW-to-MEDIUM
90	136.59		R042	E/O HUNTZINGER ROAD I/C - VANTAGE	17,182	8.7%	Rec	Central	LOW-to-MEDIUM
90	218.83		P10	W/O US 395 I/C - RITZVILLE	11,437	8.7%	Rec	Eastern	LOW-to-MEDIUM
90	254.23		R014	E/O FISHTRAP ROAD I/C -FISHTRAP	19,175	9.4%		Eastern	LOW-to-MEDIUM
90	298.4		P24	W/O SPOKANE BRIDGE RD I/C - SPOKANE	52,271	11.0%		Eastern	MEDIUM
97	13.41		R041	N/O STATE FRONTAGE RD - GOLDENDALE	5,256	7.1%		Central	LOW
97	66.3		P03	S/O PROGRESSIVE ROAD WYE CONN - WAPATO	13,238	10.8%		Central	LOW-to-MEDIUM
97	178.19		R0475	S/O OLD BLEWETT ROAD -BLEWETT PASS	6,091	5.3%	Rec	Central	LOW
97	201.53	*AR	R059	N/O OHME GARDEN RD/WAREHOUSE RD - WENATC	7,281	5.2%		Central	LOW
97	220.55		R084	N/O BRAYS ROAD - ORONDO	5,032	12.4%		Central	LOW

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MEDIUM (40,000 -< 100,000 vehicles per day)  
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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+
97	250.35		P11	N/O COUNTY ROAD NO 1525 - PATEROS	4,693	12.7%		Central	LOW
101	0.6		S841W	NW/O SR 401 - CHINOOK	6,122	7.3%		Western	LOW
101	28.95		R074	N/O SR 4 - NEMAH	2,402	1.7%	Rec	Western	LOW
101	203.93		R073	E/O SR 113/BURNT MOUNTAIN RD	2,636	9.2%		Western	LOW
101	281.15		R023	S/O ORCAS AND HOLLAND DRIVES -DISCOVERY BA	11,873	4.5%		Western	LOW-to-MEDIUM
101	324.8		P18	S/O EAGLE CREEK BRIDGE - LILLIWAUP	2,810	-3.6%	Rec	Puget Sound	LOW
101	361.37		R003N	N/O SR 8 - OLYMPIA	31,361	1.9%		Puget Sound	LOW-to-MEDIUM
101	362.02		R003E	E/O SR 8 - OLYMPIA	48,707	1.6%		Puget Sound	MEDIUM
104	13.92		R085	AT HOOD CANAL BRIDGE	17,117	0.1%		Puget Sound	LOW-to-MEDIUM
104	19.48		R095	W/O OLD PORT GAMBLE ROAD WYE CONN -KINGST	5,713	-6.3%		Puget Sound	LOW
105	31.92		R043	AT ELK RIVER BRIDGE - WESTPORT	5,650	-2.7%		Western	LOW
182	6.34		R081	AT COLUMBIA RIVER BRIDGE-PASCO	60,978	35.5%		Eastern	MEDIUM
195	6.01		P13	S/O BAUER RD 9440 - UNIONTOWN	4,842	-1.4%		Eastern	LOW
195	22.2		P14	S/O SR 270 - PULLMAN	3,579	12.0%		Eastern	LOW
195	87.7		P15	N/O WASHINGTON RD - SPANGLE	8,807	-4.1%		Eastern	LOW-to-MEDIUM
205	28.84		R051	N/O MILL PLAIN I/C - VANCOUVER	115,822	4.9%		Western	HIGH

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LOW (< 7,000 vehicles per day)

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

HIGH (100,000 + vehicles per day)

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MAY 2014**

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+
395	18.58		R087	AT COLUMBIA RIVER BRIDGE - KENNEWICK	63,042	8.4%		Central	MEDIUM
395	36.24		R061	N/O E ELM RD - ELTOPIA	15,212	21.9%		Eastern	LOW-to-MEDIUM
395	93.01		P7C	S/O I-90 I/C - RITZVILLE	8,365	15.9%		Eastern	LOW-to-MEDIUM
395	190.29		R063	S/O SR 292 - LOON LAKE	9,015	0.6%		Eastern	LOW-to-MEDIUM
395	235.6		R070	N/O GREENWOOD LOOP RD	7,891	-4.3%		Eastern	LOW-to-MEDIUM
395	260		P26	S/O LOUISE AVENUE- ORIENT	676	-1.7%		Eastern	LOW
401	0.15		S841E	NE/O US 101-MEGLER	2,494	2.6%		Western	LOW
405	18.71		S822	N/O SR 908 I/C - REDMOND	186,941	7.2%		Puget Sound	HIGH
410	116.26		S818W	W/O US 12 - CHINOOK PASS	2,044	-15.3%	Rec	Central	LOW
433	0.7		S503	AT COLUMBIA RIVER BR - LONGVIEW	22,532	13.2%		Western	LOW-to-MEDIUM
504	19.43		S840	E/O PRIVATE ROAD 1900 - KID VALLEY	729	-29.4%	Rec	Western	LOW
509	26.37		D14	N/O SR 518 I/C - BURIEN	59,221	1.1%		Puget Sound	MEDIUM
512	1.53		D3	W/O SR 7 I/C PARKLAND	89,650	-1.8%		Puget Sound	MEDIUM
518	0.35		D13	E/O SR 509 I/C - SEATAC	58,055	-2.3%		Puget Sound	MEDIUM
520	4		D10	W/O 76TH AVE NE UXING -TOLLPIAZA	64,921	-36.9%		Puget Sound	MEDIUM
520	12.01		S547	E/O W.LAKE SAMM PKWY I/C	76,193	11.4%		Puget Sound	MEDIUM

+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)

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522	13.3	P19		W/O SR 9 I/C - WOODINVILLE	49,397	15.0%		Puget Sound	MEDIUM
970	6.85	R057		W/O TEANAWAY RD - TEANAWAY	5,030	8.2%	Rec	Central	LOW

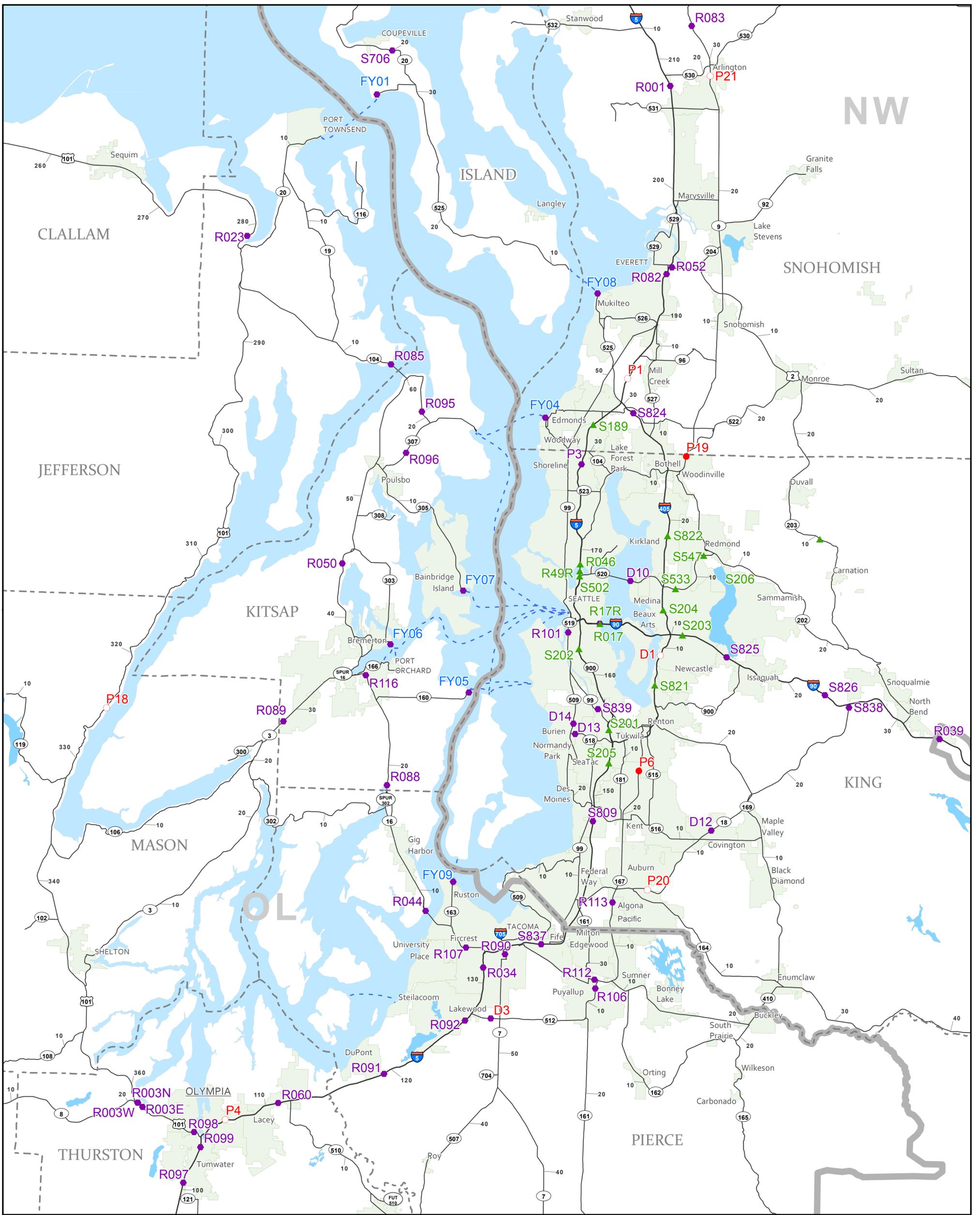
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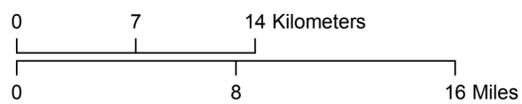
\*Alternate Route

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# 2014 Permanent Traffic Recorder Data Collection Sites



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