Permanent Traffic Recorder Data Collection Report

STRATEGIC PLANNING DIVISION
STATEWIDE TRAVEL & COLLISION DATA OFFICE

MAY 2012

Washington State Department of Transportation

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

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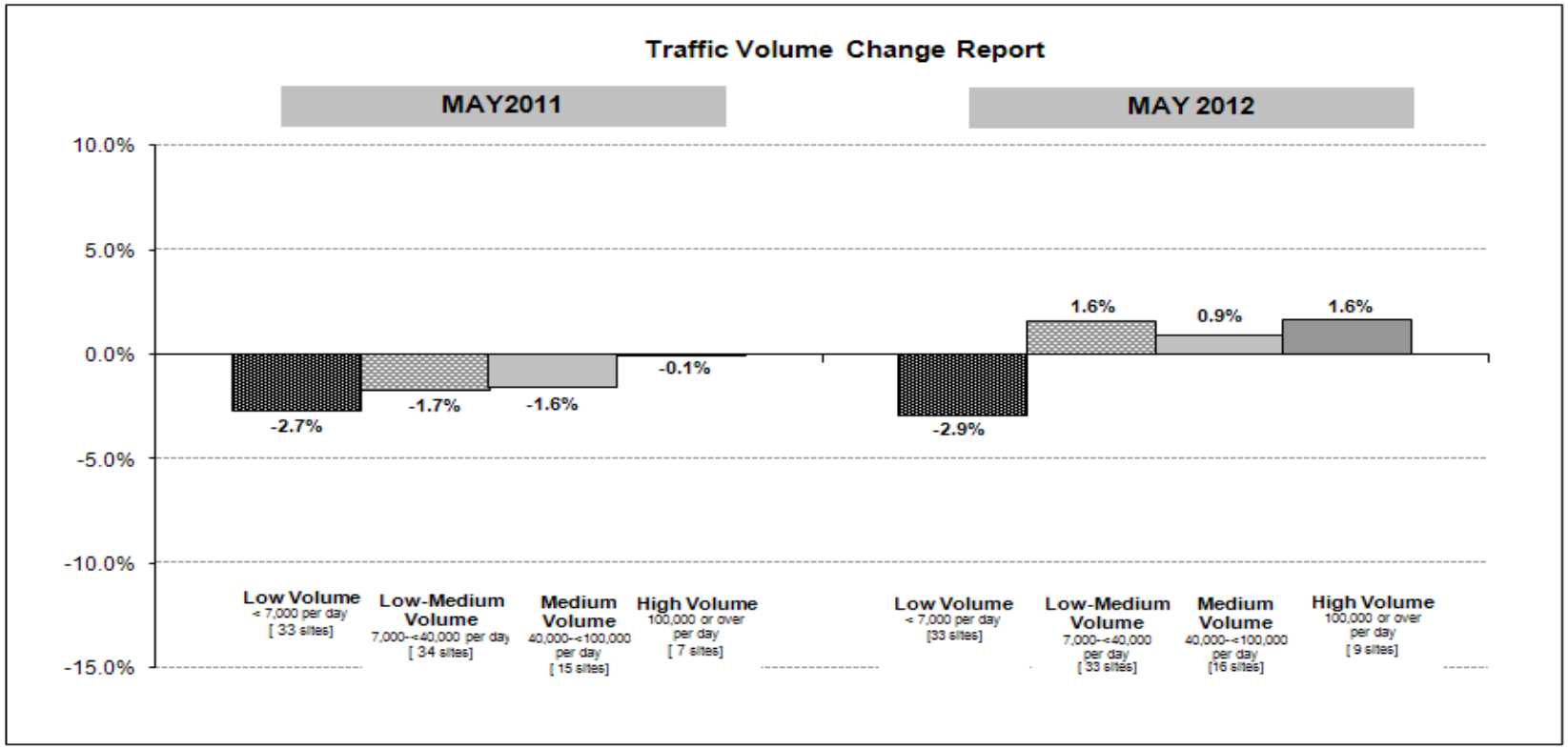
Executive Summary

This report provides information on traffic volume changes and trends. The data for this report is collected from 96 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 +0.3**%** when compared to the 5-year average from 2003 to 2007.

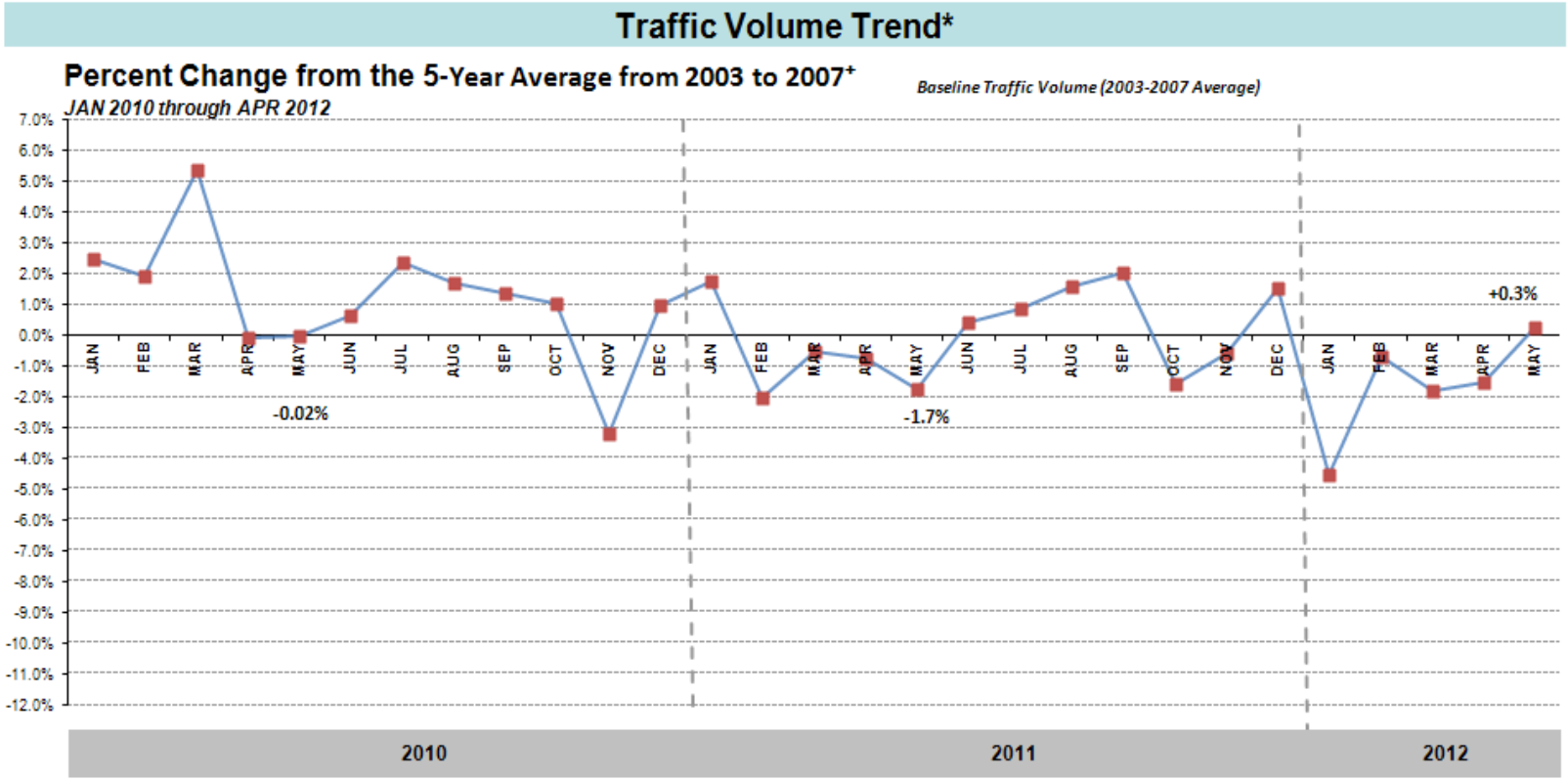
Traffic Volume Change Report for MAY 2012*

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 2012** reflect an increase of **(+0.3%).**



*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, 2006-2009) based on highway volume. MAY12 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).

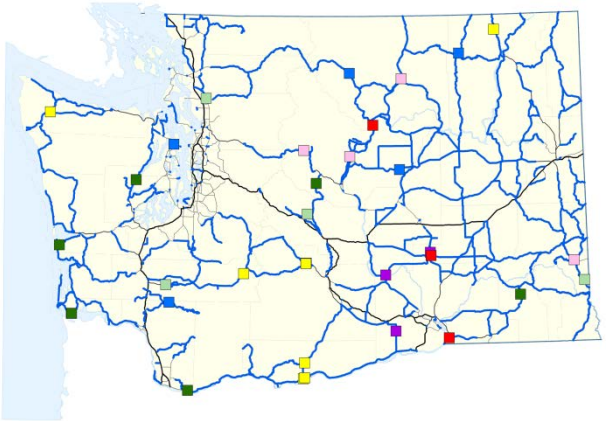
History of the Data:

-**Mar 2010** - Increase in traffic may have resulted in good weather, high temperatures for March.
-**Nov 2010** - Snow Storms, Icy weather caused a decrease in traffic in Washington.
-**Feb -May 2011** - Decrease in traffic due to gas prices increased, mudslides, severe thunderstorms, closures due to tsunami alert .
-**Jan 2012** - Winter storm - Ice/Snow with widespread power outages,.

Volume Change at Permanent Traffic Recorder Sites – May 2012

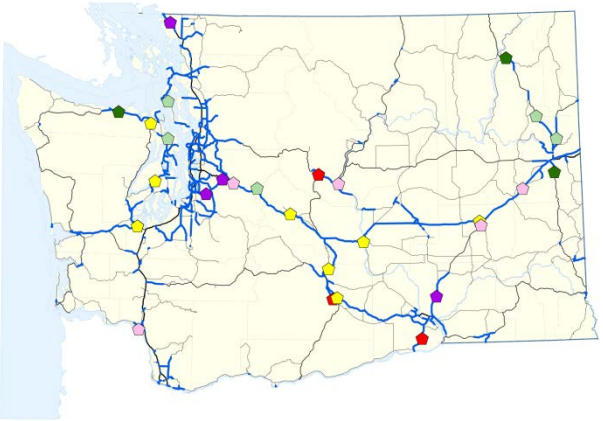
Low Volume Sites

Less than 7,000 Vehicles Per Day



Low to Medium Volume Sites

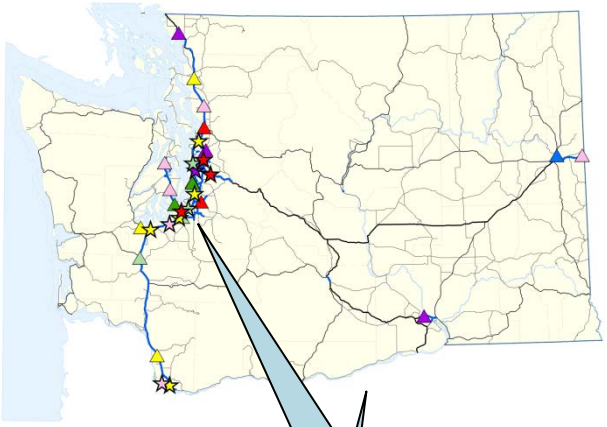
7,000 -< 40,000 Vehicles Per Day

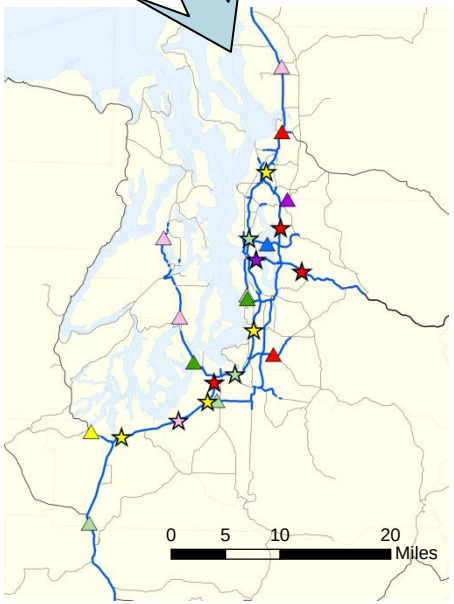


Medium and High Volume Sites

40,000 -< 100,000 Vehicles Per Day (Medium Volume)

Over 100,000 Vehicles Per Day (High Volume)





Legend of Percent Change

Color indicates ranges of percent change at each PTR site

- Over 10% increase
- +6% to 10%
- +2% to 6%
- Within +/- 2%
- -6% to -2%
- -10% to -6%
- 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

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

MAY 2012

SR	MP	RRT	SITE	DESCRIPTION	Monthly Average Daily Traffic (MADT)	Percent change compared to previous 5-year average	Recreational Route (R)*	Geographic Location	VOLUME GROUP+
002	0.26		R052	E/O SR 5 I/C - EVERETT	75,579	6.9%		Puget Sound	MEDIUM
002	80.2		R058	E/O NASON RIDGE ROAD - COLES CORNER	4,464	5.6%	Rec	Central	LOW
002	104.84		R047E	E/O SR 97 - DRYDEN	15,787	6.2%		Central	LOW-to-MEDIUM
002	119.77		R053	E/O SR97AR I/C - WENATCHEE	21,673	2.3%		Central	LOW-to-MEDIUM
002	179.1		P02	E/O J SE - COULEE CITY	801	-26.5%	Rec	Central	LOW
002	289.79		R021	N/O WALTON AVE - SPOKANE DIVISION ST	41,006	-11.3%		Eastern	MEDIUM
002	301.4		P28	S/O NORWOOD ROAD - CHATTAROY	18,091	-2.7%		Eastern	LOW-to-MEDIUM
003	28.68		R089	S/O LAKE FLORA RD.- GRAPEVIEW	17,198	-1.1%		Puget Sound	LOW-to-MEDIUM
003	44.33		R050	N/O NEWBERRY HILL I/C - SILVERDALE	45,960	4.9%		Western	MEDIUM
005	1.98		P5	S/O SR 500/39TH ST I/C - VANCOUVER	127,054	2.6%		Western	HIGH
005	20.14		R045	S/O SR 503 I/C - WOODLAND	65,928	0.9%		Western	MEDIUM
005	86.32		R019	S/O SR 12 I/C - GRAND MOUND	58,838	-2.2%		Puget Sound	MEDIUM
005	106.7		P4	AT BOULEVARD RD UXING - OLYMPIA	138,789	-0.5%		Puget Sound	HIGH
005	119.39		R091	N/O DUPONT I/C - DUPONT	118,828	4.5%		Puget Sound	HIGH
005	126.76		R092	S/O SR 512 I/C - TACOMA	143,321	-1.9%		Puget Sound	HIGH
005	131.18		R034	N/O SO 56TH ST I/C - LAKEWOOD	187,560	7.9%		Puget Sound	HIGH

*"Rec" is Recreational Route

+Volume Group

LOW (Less than 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 or more vehicles per day)

*Alternate Route

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MAY 2012

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005	136.8		S837	S/O SR 99 I/C- FIFE	176,757	-3.9%		Puget Sound	HIGH
005	148.07		S809	S/O SR 516 I/C- MIDWAY	190,646	-0.8%		Puget Sound	HIGH
005	168.84		R046	N/O ROANOKE ST UXING - SEATTLE	209,470	-4.1%		Puget Sound	HIGH
005	184.48		P1	N/O 164TH STREET SW I/C- EVERETT	183,180	1.3%		Puget Sound	HIGH
005	207.78		R001	S/O SR 530 I/C- MARYSVILLE	85,852	3.2%		Puget Sound	MEDIUM
005	226.96		R093	N/O SR 536 I/C- MT. VERNON	68,161	0.4%		Western	MEDIUM
005	261.33		P04	N/O SLATER ROAD I/C - FERNDALE	51,363	15.6%		Western	MEDIUM
005	269.41		S803	S/O BIRCH BAY/LYNDEN RD I/C- CUSTER	33,281	25.1%		Western	LOW-to-MEDIUM
008	20.67		R003W	AT SR 101 OKING - OLYMPIA	16,774	-2.3%		Puget Sound	LOW-to-MEDIUM
009	32.98		R083	N/O 53RD AVE NE - BRYANT	1,959	-2.9%		Puget Sound	LOW
012	77.78		R075	E/O KENNEDY ROAD-SALKUM	6,727	-4.2%		Western	LOW
012	135.1		R040W	W/O COAL CREEK BRIDGE - PACKWOOD	1,857	-1.7%	Rec	Western	LOW
012	185.25		S818S	S/O SR 410 - WHITE PASS	2,455	-1.0%	Rec	Central	LOW
012	185.62		S818E	E/O SR 410 - NACHES	4,144	-12.2%	Rec	Central	LOW
012	307.9		R008	E/O SR 730 WALLULA SPUR	7,044	6.6%		Eastern	LOW
012	376.98		P05	W/O TUCANNON RIVER BR - DAYTON	2,191	-6.3%		Central	LOW

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014	17.7		P07	E/O 32ND ST - WASHOUGAL	6,008	-9.3%		Western	LOW
014	102.27		R077	W/O MARYHILL RD - STONEHENGE	1,875	-1.8%		Central	LOW
016	8.43		R044	W/O TACOMA NARROWS BR - TACOMA	80,277	-7.1%		Puget Sound	MEDIUM
016	18.65		R088	W/O SR 302 PURDY SPUR - BURLEY	45,789	5.7%		Puget Sound	MEDIUM
017	30.37		R020	S/O LEE ROAD - OTHELLO	6,173	13.3%		Central	LOW
018	5.26		P20	E/O SR 164 I/C- AUBURN EAST	58,209	8.3%		Puget Sound	MEDIUM
018	12.55		D12	AT 180TH AVE SE UXING - COVINGTON	32,459	14.2%		Puget Sound	LOW-to-MEDIUM
018	27.62		S838	S/O SR 090 I/C- ECHO GLEN	22,731	13.8%		Puget Sound	LOW-to-MEDIUM
020	20.02		S706	E/O RHODODENDRON PARK DR - COUPEVILLE	8,352	-4.4%		Puget Sound	LOW-to-MEDIUM
020	191.9		R037	W/O RADER ROAD - WINTHROP	1,816	-16.6%	Rec	Central	LOW
020	304.6		S820	W/O FAIRGROUNDS ROAD-REPUBLIC	2,337	-10.4%		Eastern	LOW
024	43.5		S612	AT COLUMBIA RVR BRIDGE - VERNITA BRIDGE	4,120	14.0%		Central	LOW
026	43.06		R066	E/O SR 17 I/C- OTHELLO	2,947	9.3%	Rec	Central	LOW
082	24.83		R048	E/O SELAH CR REST AREA ON RAMP - SELAH	16,891	1.6%		Central	LOW-to-MEDIUM
082	48.5		P08	W/O SR 22 I/C- BUENA	24,100	-0.8%		Central	LOW-to-MEDIUM
082	121.2		P09	W/O COFFIN RD I/C- PLYMOUTH	17,123	9.8%		Eastern	LOW-to-MEDIUM

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090	4.22		R017	E. END OF MT BAKER TUNNEL - SEATTLE	137,491	15.5%		Puget Sound	HIGH
090	14.65		S825	W/O SR 900 I/C - ISSAQUAH	125,320	6.2%		Puget Sound	HIGH
090	33.56		R039	W/O 468TH AVE SE I/C-NORTH BEND	34,345	2.1%	Rec	Puget Sound	LOW-to-MEDIUM
090	52.24		S902	AT SR 906 OKING - SNOQUALMIE	27,821	-5.7%	Rec	Western	LOW-to-MEDIUM
090	82.7		B04	W/O W FIRST STREET I/C - CLE ELUM	31,105	1.8%	Rec	Central	LOW-to-MEDIUM
090	136.59		R042	E/O HUNTZINGER ROAD I/C - VANTAGE	16,081	1.7%	Rec	Central	LOW-to-MEDIUM
090	218.83		P10	W/O SR 395 I/C - RITZVILLE	10,580	0.6%	Rec	Eastern	LOW-to-MEDIUM
090	254.23		R014	E/O FISHTRAP ROAD I/C - FISHTRAP	17,929	2.2%		Eastern	LOW-to-MEDIUM
090	298.4		P24	W/O SPOKANE BRIDGE RD I/C - SPOKANE	48,532	3.1%		Eastern	MEDIUM
097	13.41		R041	N/O STATE FRONTAGE RD - GOLDENDALE	4,952	0.9%		Central	LOW
097	66.3		P03	S/O PROGRESSIVE ROAD WYE CONN - WAPATO	13,009	8.8%		Central	LOW-to-MEDIUM
097	178.19		R047S	S/O OLD BLEWETT ROAD - BLEWETT PASS	5,378	-7.1%	Rec	Central	LOW
097	201.53	*AR	R059	N/O OHME GARDEN RD/WAREHOUSE RD - WENATC	6,826	-1.4%		Central	LOW
097	220.55		R084	N/O BRAYS ROAD - ORONDO	4,572	2.2%		Central	LOW
097	250.35		P11	N/O COUNTY ROAD NO 1525 - PATEROS	4,436	6.5%		Central	LOW
097	293.42		R068	N/O COPPLE ROAD - OMAK	5,521	3.1%		Central	LOW

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101	0.6		S841W	NW/O SR 401 - CHINOOK	5,475	-4.0%		Western	LOW
101	203.93		R073	E/O SR 113/BURNT MOUNTAIN RD	2,407	-0.3%		Western	LOW
101	254.35		R069	AT WEIGH STATION-PORT ANGELES	21,922	-6.2%		Western	LOW-to-MEDIUM
101	281.15		R023	S/O ORCAS AND HOLLAND DRIVES -DISCOVERY BA	11,292	-0.6%		Western	LOW-to-MEDIUM
101	324.8		P18	S/O EAGLE CREEK BRIDGE - LILLIWAUP	2,734	-6.2%	Rec	Puget Sound	LOW
101	361.37		R003N	N/O SR 8 - OLYMPIA	30,508	-0.9%		Puget Sound	LOW-to-MEDIUM
101	362.02		R003E	E/O SR 8 - OLYMPIA	47,261	-1.4%		Puget Sound	MEDIUM
104	13.92		R085	AT HOOD CANAL BRIDGE	16,326	-4.5%		Puget Sound	LOW-to-MEDIUM
104	19.48		R095	W/O OLD PORT GAMBLE ROAD WYE CONN -KINGST	5,407	-11.3%		Puget Sound	LOW
105	31.92		R043	AT ELK RIVER BRIDGE - WESTPORT	5,342	-8.0%		Western	LOW
182	6.34		R081	AT COLUMBIA RIVER BRIDGE-PASCO	58,135	29.1%		Eastern	MEDIUM
195	6.01		P13	S/O BAUER RD 9440 - UNIONTOWN	4,731	-3.7%		Eastern	LOW
195	22.2		P14	S/O SR 270 - PULLMAN	3,327	4.2%		Eastern	LOW
195	87.7		P15	N/O WASHINGTON RD - SPANGLE	8,612	-6.2%		Eastern	LOW-to-MEDIUM
205	28.84		R051	N/O MILL PLAIN I/C- VANCOUVER	112,209	1.6%		Western	HIGH
221	13.1		P17	S/O SELLARDS RD - PROSSER	2,116	10.1%		Central	LOW

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395	36.24		R061	N/O E ELM RD - ELTOPIA	14,263	14.3%		Eastern	LOW-to-MEDIUM
395	93.01		P7C	S/O SR 90 I/C- RITZVILLE	7,533	4.4%		Eastern	LOW-to-MEDIUM
395	190.29		R063	S/O SR 292 - LOON LAKE	8,436	-5.9%		Eastern	LOW-to-MEDIUM
395	235.6		R070	N/O GREENWOOD LOOP RD	7,677	-6.8%		Eastern	LOW-to-MEDIUM
395	260		P26	N/O COUNTY ROAD - ORIENT	682	-0.9%		Eastern	LOW
401	0.15		S841E	NE/O SR 101-MEGLER	2,248	-7.5%		Western	LOW
405	18.71		S822	N/O SR 908 I/C- REDMOND	186,789	7.1%		Puget Sound	HIGH
410	116.26		S818W	W/O SR 12 - CHINOOK PASS	1,899	-21.3%	Rec	Central	LOW
433	0.7		S503	AT COLUMBIA RIVER BR - LONGVIEW	21,050	5.7%		Western	LOW-to-MEDIUM
504	19.43		S840	E/O PRIVATE ROAD 1900 - KID VALLEY	756	-26.8%	Rec	Western	LOW
509	26.37		D14	N/O SR 518 I/C- BURIEN	55,659	-5.0%		Puget Sound	MEDIUM
512	1.53		D3	W/O SR 7 I/C PARKLAND	89,124	-2.3%		Puget Sound	MEDIUM
518	0.35		D13	E/O SR 509 I/C- SEATAC	55,334	-6.9%		Puget Sound	MEDIUM
520	4		D10	W/O 76TH AVE NE UXING -TOLL PLAZA	63,015	-38.8%		Puget Sound	MEDIUM
522	13.3		P19	W/O SR 9 I/C- WOODINVILLE	48,172	12.2%		Puget Sound	MEDIUM
970	6.85		R057	W/O TEANAWAY RD - TEANAWAY	4,455	-4.2%	Rec	Central	LOW

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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 or more vehicles per day)

*Alternate Route

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 ADC section 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" = = (Less than 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 or more vehicles per day
- "R" = = recreational route
- "Region" = = Geographical location

For questions about this report or further site information, please contact the ADC section 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 further a detailed report for one of the sites that the Automated Data Collection section (ADC) 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 ADC section of the Travel Data & Analysis Branch at stcdoadc@wsdot.wa.gov

Prepared by the
WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
Strategic Planning and Programming
Statewide Travel and Collision Data Office

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

Permanent Traffic Recorder Data Collection Sites

WASHINGTON STATE HIGHWAYS 2011

HIGHWAY SYMBOLOGY

- Interstate
- U.S.
- State
- 395 - Milepost

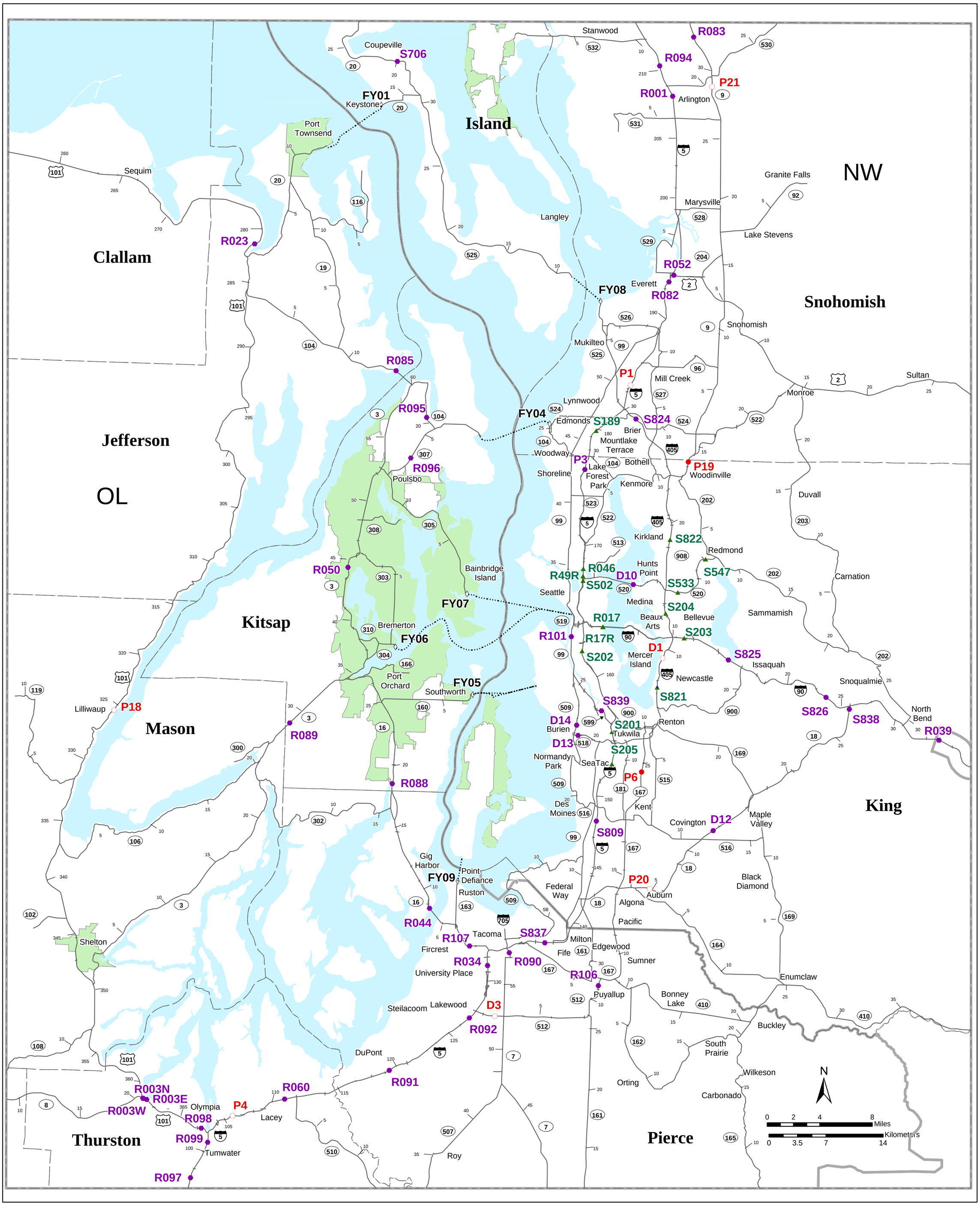
DATA COLLECTION TYPES

- Ferry Terminal
- Permanent Traffic Recorder (Volume, Speed, Classification)
- WIM/Vehicle Axle Classification (SHRP/LTTP Research Site)
- WIM/Vehicle Axle Classification (WIM- Weigh in Motion)
- Oregon State Recorders

Urban Area

0 20 40 80 Kilometers

0 20 40 80 Miles



2011
Puget Sound Enlargement

Permanent Traffic Recorder Sites

- ◊ Ferry Terminal
- ▲ Northwest Region Volume Recorder
- ⬢ Permanent Traffic Recorder (Volume, Speed, Classification)
- ● WIM/Vehicle Axle Classification (SHRP/LTTP Research Site)
- ○ WIM/Vehicle Axle Classification (WIM- Weigh in Motion)
- ▼ Oregon State Recorders

Urban Area