Permanent Traffic Recorder Data Collection Report

STRATEGIC PLANNING DIVISION
STATEWIDE TRAVEL & COLLISION DATA OFFICE

JULY 2012

Washington State Department of Transportation

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

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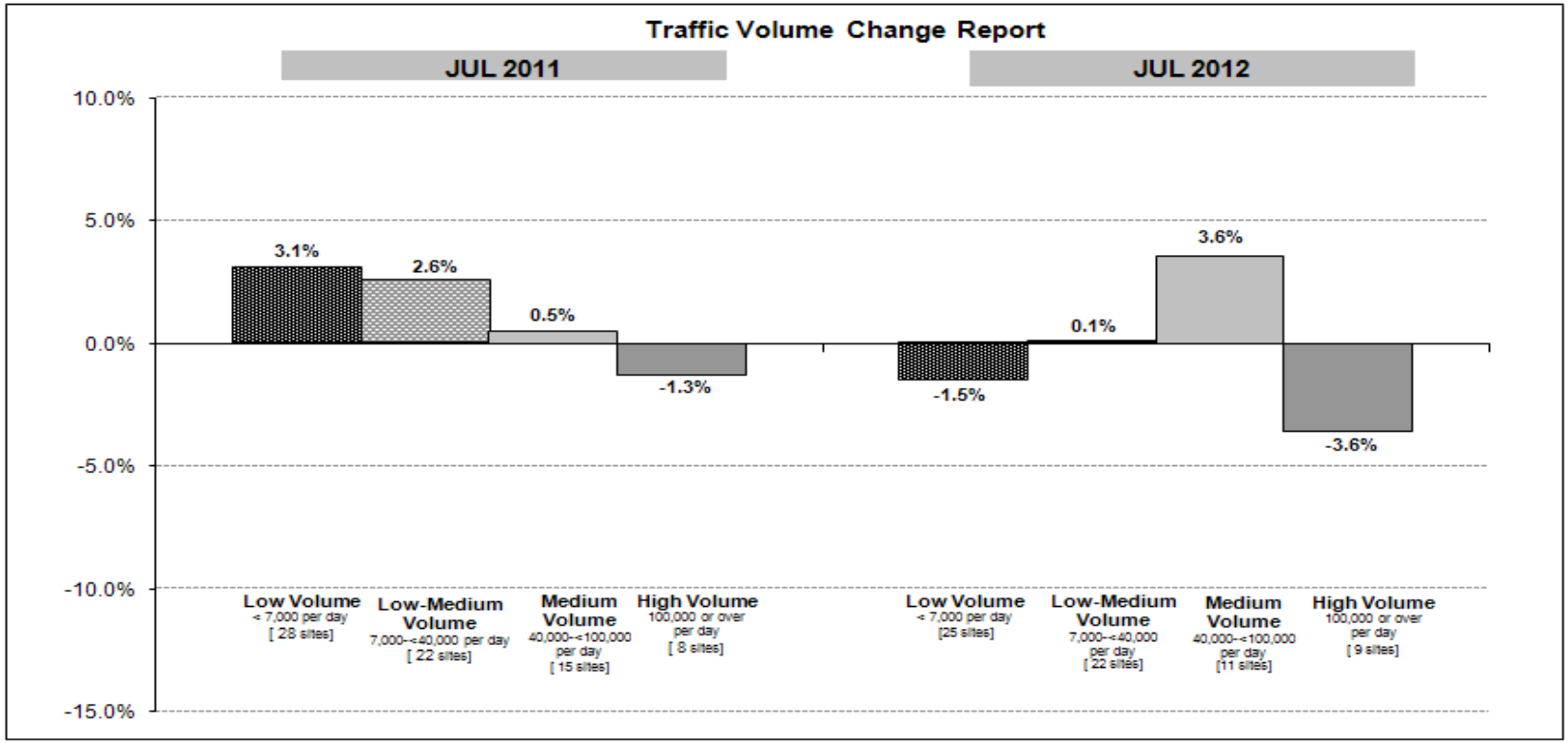
Executive Summary

This report provides information on traffic volume changes and trends. The data for this report is collected from 67 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 -0.5**%** when compared to the 5-year average from 2003 to 2007.

Traffic Volume Change Report for JULY 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

Note: Due to the Construction Season the Urban area shows a low number of PTR sites which is normal for July.

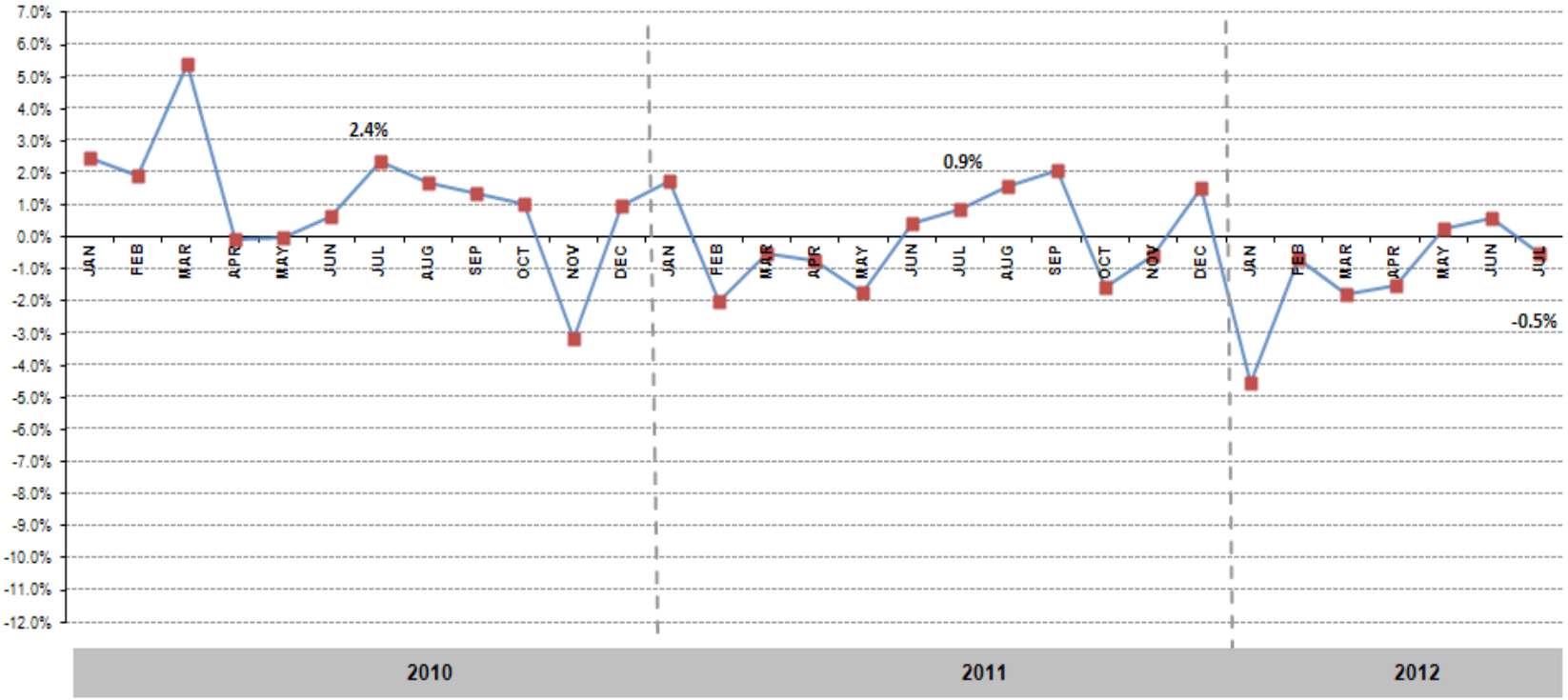
Compared to the traffic volume trend (average daily traffic) the overall traffic volumes for **July 2012** reflect a decrease of **(-0.5%).**

Traffic Volume Trend*

Percent Change from the 5-Year Average from 2003 to 2007+

JAN 2010 through JUL 2012

Baseline Traffic Volume (2003-2007 Average)



*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. July12 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).

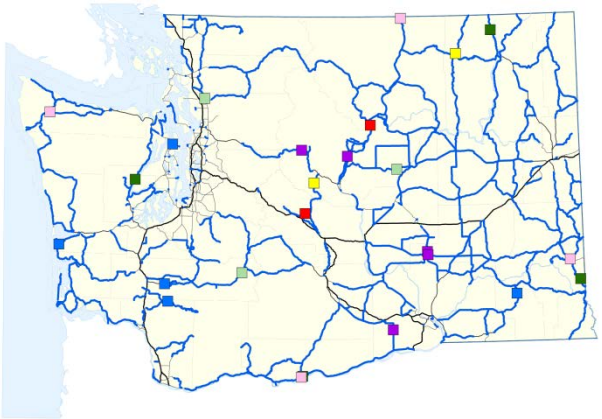
History of the Data:

-**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 – July 2012

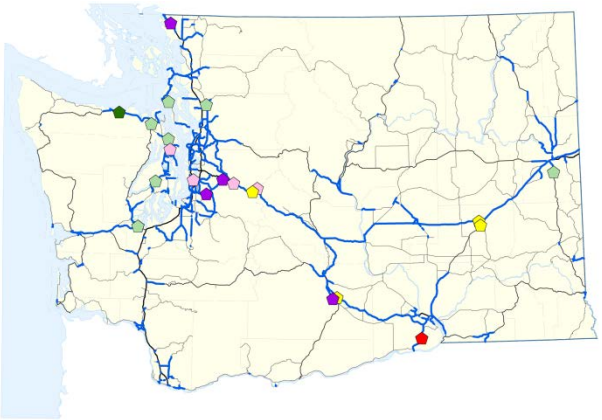
Low Volume Sites

Less than 7,000 Vehicles Per Day



Low to Medium Volume Sites

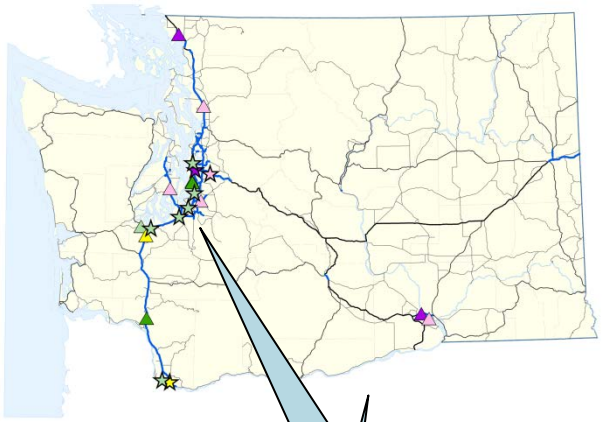
7,000 -< 40,000 Vehicles Per Day



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
JULY 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	80.2		R058	E/O NASON RIDGE ROAD - COLES CORNER	6,323	12.1%	Rec	Central	LOW
002	179.1		P02	E/O J SE - COLLEGE CITY	1,112	-3.9%	Rec	Central	LOW
003	28.68		R089	S/O LAKE FLORA RD - GRAPEVIEW	18,412	-4.3%		Puget Sound	LOW-to-MEDIUM
005	1.98		P5	S/O SR 500/39TH ST I/C - VANCOUVER	126,096	-2.2%		Western	HIGH
005	44.3		P8	N/O WEIGH STATION - KELSO	55,179	-8.2%		Western	MEDIUM
005	100.54		R097	S/O TUMWATER BLVD	75,707	-1.1%		Puget Sound	MEDIUM
005	106.7		P4	AT BOULEVARD RD UXING - OLYMPIA	144,132	-3.6%		Puget Sound	HIGH
005	126.76		R092	S/O SR 512 I/C - TACOMA	151,067	-4.6%		Puget Sound	HIGH
005	136.8		S837	S/O SR 99 I/C - FIFE	183,256	-5.0%		Puget Sound	HIGH
005	148.07		S809	S/O SR 516 I/C - MIDWAY	195,034	-3.9%		Puget Sound	HIGH
005	168.84		R046	N/O ROANOKE ST UXING - SEATTLE	208,373	-4.1%		Puget Sound	HIGH
005	207.78		R001	S/O SR 530 I/C - MARYSVILLE	94,138	3.6%		Puget Sound	MEDIUM
005	261.33		P04	N/O SLATER ROAD I/C - FERNDALE	53,492	12.3%		Western	MEDIUM
005	269.41		S803	S/O BIRCH BAY/LYNDEN RD I/C - CLUSTER	36,171	20.6%		Western	LOW-to-MEDIUM
008	20.67		R003W	AT SR 101 OKING - OLYMPIA	19,173	-6.3%		Puget Sound	LOW-to-MEDIUM
009	28.75		P21	N/O HIGHLAND DRIVE - ARLINGTON	11,532	-2.4%		Puget Sound	LOW-to-MEDIUM

*"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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JULY 2012

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009	32.98		R083	N/O 53RD AVE NE - BRYANT	2,317	-5.5%		Puget Sound	LOW
012	77.78		R075	E/O KENNEDY ROAD-SALKUM	7,288	-13.0%		Western	LOW
012	135.1		R040W	W/O COAL CREEK BRIDGE - PACKWOOD	2,680	-5.9%	Rec	Western	LOW
012	376.98		P05	W/O TUCANNON RIVER BR - DAYTON	2,279	-11.3%		Central	LOW
014	102.27		R077	W/O MARYHILL RD - STONEHENGE	2,027	-6.5%		Central	LOW
016	18.65		R088	W/O SR 302 PURDY SPUR - BURLEY	47,760	4.1%		Puget Sound	MEDIUM
017	30.37		R020	S/O LEE ROAD - OTHELLO	6,576	14.1%		Central	LOW
018	5.26		P20	E/O SR 164 I/C - AUBURN EAST	60,307	4.4%		Puget Sound	MEDIUM
018	12.55		D12	AT 180TH AVE SE UXING - COVINGTON	35,182	12.8%		Puget Sound	LOW-to-MEDIUM
018	27.62		S838	S/O SR 090 I/C - ECHO GLEN	25,980	13.4%		Puget Sound	LOW-to-MEDIUM
020	20.02		S706	E/O RHODODENDRON PARK DR - COUPEVILLE	9,184	-4.4%		Puget Sound	LOW-to-MEDIUM
020	304.6		S820	W/O FAIRGROUNDS ROAD-REPUBLIC	2,809	-1.5%		Eastern	LOW
026	43.06		R066	E/O SR 17 I/C - OTHELLO	2,911	10.3%	Rec	Central	LOW
082	48.5		P08	W/O SR 22 I/C - BUENA	25,602	0.9%		Central	LOW-to-MEDIUM
082	121.2		P09	W/O COFFIN RD I/C - PLYMOUTH	19,877	7.1%		Eastern	LOW-to-MEDIUM
090	4.22		R017	E. END OF MT BAKER TUNNEL - SEATTLE	138,454	13.1%		Puget Sound	HIGH

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090	14.65		S825	W/O SR 900 I/C - ISSAQUAH	128,262	4.5%		Puget Sound	HIGH
090	33.56		R039	W/O 468TH AVE SE I/C NORTH BEND	41,648	3.3%	Rec	Puget Sound	LOW-to-MEDIUM
090	47.71		S901	AT TINKHAM ROAD UKING - TINKHAM RD	37,419	1.7%	Rec	Western	LOW-to-MEDIUM
090	52.24		S902	AT SR 906 OKING - SNOQUALMIE	36,564	4.8%	Rec	Western	LOW-to-MEDIUM
090	218.83		P10	W/O SR 395 I/C - RITZVILLE	13,267	-1.2%	Rec	Eastern	LOW-to-MEDIUM
097	66.3		P03	S/O PROGRESSIVE ROAD WYE CONN - WAPATO	13,708	10.1%		Central	LOW-to-MEDIUM
097	178.19		R047S	S/O OLD BLEWETT ROAD - BLEWETT PASS	7,318	0.7%	Rec	Central	LOW
097	201.53	*AR	R059	N/O CHIME GARDEN RD/WAREHOUSE RD - WENATC	9,235	2.9%		Central	LOW
097	220.55		R084	N/O BRAYS ROAD - ORONDO	5,657	12.3%		Central	LOW
097	250.35		P11	N/O COUNTY ROAD NO 1525 - PATEROS	5,402	6.3%		Central	LOW
097	335.3		P22	S/O OLD HIGHWAY ROAD - OROVILLE	2,782	4.8%		Central	LOW
101	203.93		R073	E/O SR 113/BURNT MOUNTAIN RD	3,420	4.4%		Western	LOW
101	254.35		R069	AT WEIGH STATION-PORT ANGELES	23,790	-8.3%		Western	LOW-to-MEDIUM
101	281.15		R023	S/O ORCAS AND HOLLAND DRIVES - DISCOVERY BA	13,975	-3.4%		Western	LOW-to-MEDIUM
101	324.8		P18	S/O EAGLE CREEK BRIDGE - LILLIWAUP	3,544	-6.3%	Rec	Puget Sound	LOW
101	361.37		R003N	N/O SR 8 - OLYMPIA	31,145	-5.5%		Puget Sound	LOW-to-MEDIUM

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101	362.02		R003E	E/O SR 8 - OLYMPIA	50,924	-4.7%		Puget Sound	MEDIUM
104	13.92		R085	AT HOOD CANAL BRIDGE	19,000	-5.5%		Puget Sound	LOW-to-MEDIUM
104	19.48		R095	W/O OLD PORT GAMBLE ROAD WYE CONN-KINGST	6,360	-12.4%		Puget Sound	LOW
105	31.92		R043	AT ELK RIVER BRIDGE - WESTPORT	6,126	-13.7%		Western	LOW
182	6.34		R081	AT COLUMBIA RIVER BRIDGE-PASCO	56,313	27.5%		Eastern	MEDIUM
195	6.01		P13	S/O BAUER RD 9440 - UNIONTOWN	4,642	-6.3%		Eastern	LOW
195	22.2		P14	S/O SR 270 - PULLMAN	3,382	2.4%		Eastern	LOW
195	87.7		P15	N/O WASHINGTON RD - SPANGLE	8,224	-5.8%		Eastern	LOW-to-MEDIUM
205	28.84		R051	N/O MILL PLAIN I/C- VANCOUVER	116,129	1.6%		Western	HIGH
221	13.1		P17	S/O SELLARDS RD - PROSSER	2,663	19.9%		Central	LOW
307	2.31		R096	S/O NE GUNDERSON RD.	16,649	4.9%		Puget Sound	LOW-to-MEDIUM
395	18.58		R087	AT COLUMBIA RIVER BRIDGE - KENNEWICK	60,623	3.6%		Central	MEDIUM
395	93.01		P7C	S/O SR 90 I/C - RITZVILLE	8,828	-0.7%		Eastern	LOW-to-MEDIUM
395	260		P26	N/O COUNTY ROAD - ORIENT	912	-6.9%		Eastern	LOW
504	19.43		S840	E/O PRIVATE ROAD 1900 - KID VALLEY	1,539	-19.5%	Rec	Western	LOW
509	26.37		D14	N/O SR 518 I/C - BURIEN	55,117	-6.6%		Puget Sound	MEDIUM

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- LOW-To-MEDIUM (7,000 -<40,000 vehicles per day)
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- HIGH (100,000 or more vehicles per day)

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518	0.35		D13	E/O SR 509 I/C - SEATAC	55,593	-7.4%		Puget Sound	MEDIUM
599	1.15		S839	E/O SR 99 I/C - TUKWILA	41,386	4.7%		Puget Sound	LOW-to-MEDIUM
970	6.85		R057	W/O TEANAWAY RD - TEANAWAY	6,219	7.9%	Rec	Central	LOW

+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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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

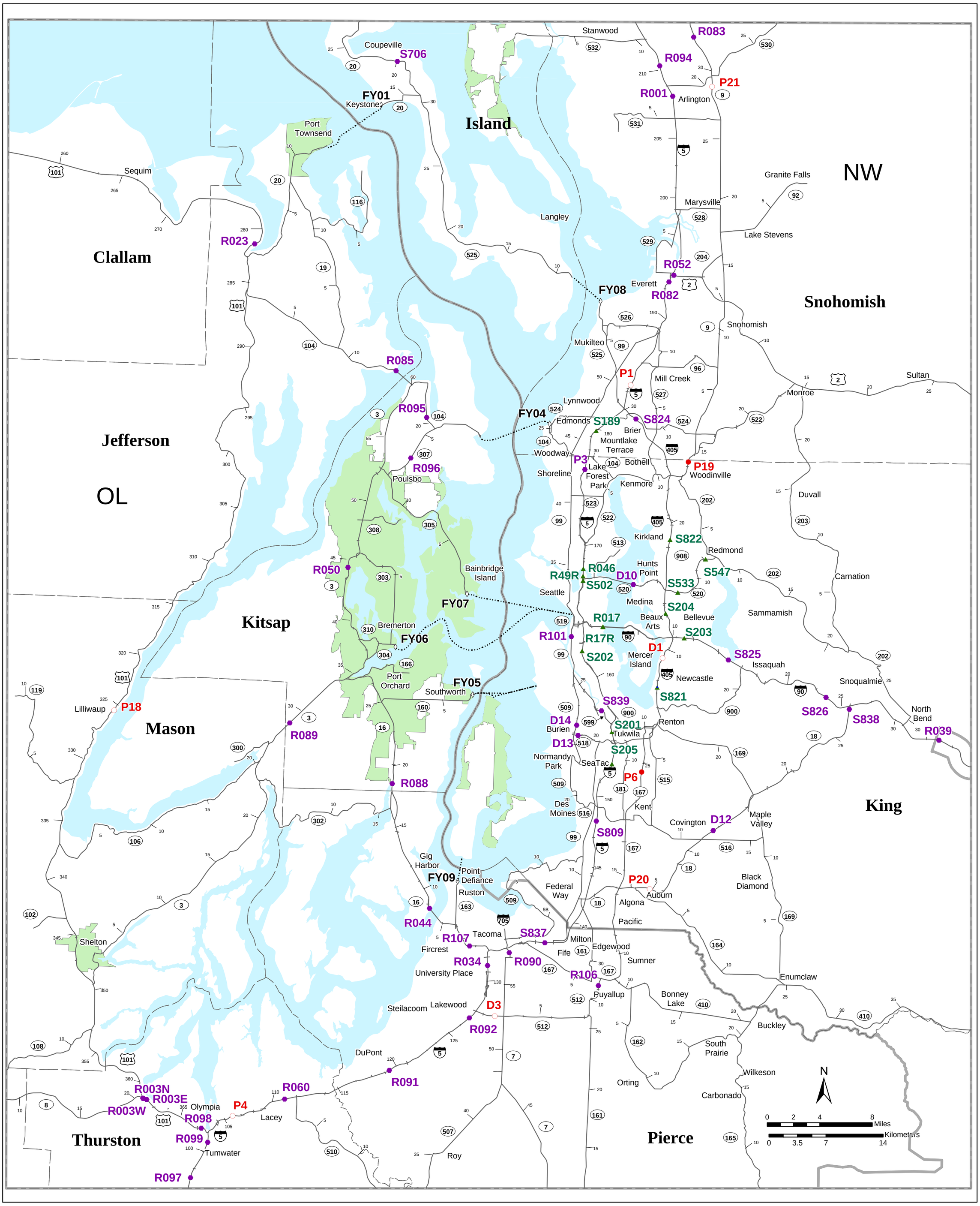
DATA COLLECTION TYPES

- 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