# Permanent Traffic Recorder Data Collection Report

STRATEGIC PLANNING AND PROGRAMMING TRANSPORTATION DATA OFFICE

**MAY 2009** 



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

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#### **Executive Summary**

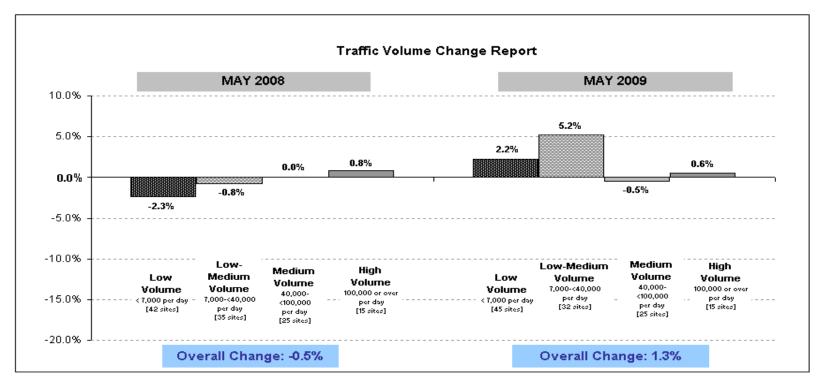
This report provides information on traffic volume changes and trends. The data for this report is collected from 118 Permanent Traffic Recorder (PTR) sites on state highways.

The pattern of traffic volume change was similar among all the four volume group locations (Low, Low-to-Medium, Medium and High). The volume remains relatively consistent (1.3% increase) when compared to the previous 3-year averages.

#### Traffic Volume Change Report for MAY 2009\*

#### Percent Change from the Normal May Traffic Volume\*

By Highway Volume



<sup>\*\*</sup>Normal Traffic Volume (0.0% on the line graph) is the expected level of volume for the month, which was forecasted by the average of the past three years of traffic volume. Unit of volume measurement is monthly average daily traffic (MADT). The 2009 data reflects an increase in traffic around the state.

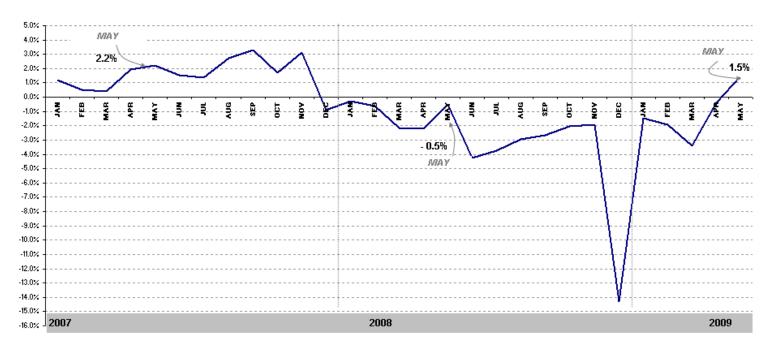
Source: Data from Permanent Traffic Recorder Sites

Compared to overall traffic volume (average daily traffic) traffic volumes for May 2009 were up (1.5%), May 2008 were down (-0.5%), and May 2007 were up (2.2%).

#### Traffic Volume Trend - MAY 2009

**Month End Data** 

#### Percent Change from the Normal MAY Traffic Volume



<sup>\*</sup>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, 2007) based on highway volume.

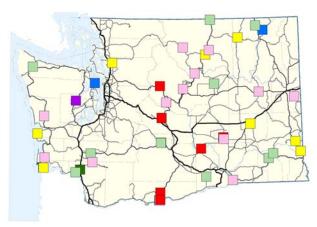
Source: Data from Permanent Traffic Recorder (PTR) Sites).

<sup>+</sup>Normal Traffic Volume (0.0% on the line graph) is the expected level of volume for the month, which was forecasted by the average of the past three years of traffic volume. Unit of volume measurement is monthly average daily traffic (MADT).

### **Volume Change at Permanent Traffic Recorder Sites - May 2009**

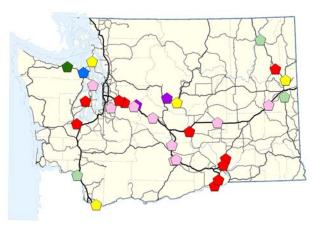
#### **Low Volume Sites**

☐ Less than 7,000 Vehicles Per Day



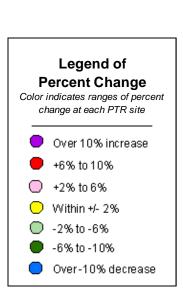
#### **Low to Medium Volume Sites**

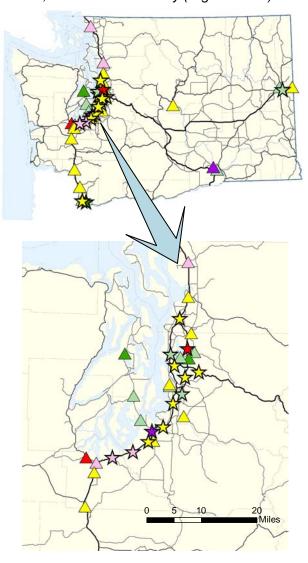
7,000 -< 40,000 Vehicles Per Day



#### **Medium and High Volume Sites**

△ 40,000 -< 100,000 Vehicles Per Day (Medium Volume) ¬ Over 100,000 Vehicles Per Day (High Volume)







# CONTINUOUS COUNTER SITE MONTHLY COMPARISON TO PREVIOUS 3-YEAR AVERAGE OF SAME MONTH MAY 2009 Percent

5R	MP	RRT	SITE	DESCRIPTION	Monthly Average Daily Traffic (MADT)	change compared to previous 3-year average	Recreational Route (R)*	Geographic Location	VOLUME GROUP+
002	0.26		R052	E/O SR 5 I/C - EVERETT	71,595	2.0%		Puget Sound	MEDIUM
002	80.2		R058	E/O NASON RIDGE ROAD - COLES CORNER	4,626	9.0%	Rec	Central	LOW
002	104.8		R047E	E/O SR 97 - DRYDEN	16,659	22.5%		Central	LOW-to-MEDIUM
002	119.8		R053	E/O SR 97 AR I/C - WENATCHEE	21,406	-1.0%		Central	LOW-to-MEDIUM
002	250.5		R064	W/O GUNNING RD - DAVENPORT	3,061	2.2%		Eastern	LOW
002	289.8		R021	N/O WALTON AVE - SPOKANE DIVISION ST	45,337	-3.1%		Eastern	MEDIUM
002	301.4		P28	S/O NORWOOD ROAD - CHATTAROY	18,637	0.6%		Eastern	LOW-to-MEDIUM
003	28.68		R089	S/O LAKE FLORA RD GRAPEVIEW	19,348	8.7%		Puget Sound	LOW-to-MEDIUM
003	44.33		R050	N/O NEWBERRY HILL I/C - BRINNON	39,302	-8.9%		Western	MEDIUM
004	55.05		R078	W/O SR 432 AND COAL CREEK RD - LONGVIEW SF	5,233	-3.1%		Western	LOW
0.05	1.98		P5	S/O SR 500/39TH ST I/C -V ANCOUVER	125,161	0.2%		Western	HIGH
0.05	20.14		R045	S/O SR 503 I/C - WOODLAND	66,206	0.0%		Western	MEDIUM
0.05	44.3		P8	N/O WEIGH STATION - KELSO	51,169	-0.2%		Western	MEDIUM
0.05	86.32		R019	S/O SR 12 I/C - GRAND MOUND	60,981	0.7%		Puget Sound	MEDIUM
0.05	100.5		R097	S/O TUMWATER BLVD	69,632	0.8%		Puget Sound	MEDIUM
005	111.0		R060	S/O SR 510 I/C -LACEY	116,634	3.6%		Puget Sound	HIGH

<sup>+</sup>Volume Group

LOW (Less than 7,000 vehicles per day)

LOW-To-MEDILM (7,000 - < 40,000 vehicles per day)

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

HIGH (100,000 or more vehicles per day)



Percent

# CONTINUOUS COUNTER SITE MONTHLY COMPARISON TO PREVIOUS 3-YEAR AVERAGE OF SAME MONTH MAY 2009

5R	MP RRT	SITE	DESCRIPTION	Monthly Average Daily Traffic (MADT)	change compared to previous 3-year average	Recreationa Route (R)*	l Geographic Location	YOLUME GROUP+
005	119.4	R091	N/O DUPONT I/C -DUPONT	121,780	3.2%		Puget Sound	HIGH
0.05	126.8	R092	S/O SR 512 I/C - TACOMA	148,669	0.8%		Puget Sound	HIGH
0.05	131.2	R034	N/O SO 56TH ST I/C - LAKEWOOD	193,507	21.5%		Puget Sound	HIGH
0.05	136.8	S837	S/O SR 99 I/C - FIFE	185,853	0.7%		Puget Sound	HIGH
0.05	148.1	S809	S/O SR 516 I/C - MIDWAY	194,598	0.6%		Puget Sound	HIGH
005	168.3 RL005EXP	R49R	AT E. ROANOKE ST. UXING	44,847	-5.0%		Puget Sound	MEDIUM
005	168.8	R046	N/O ROANOKE ST UXING - SEATTLE	210,394	-2.2%		Puget Sound	HIGH
005	184.5	P1	N/O 164TH STREET SW I/C - EVERETT	184,579	1.7%		Puget Sound	HIGH
0.05	207.8	R001	S/O SR 530 I/C - MARYSVILLE	87,590	3.3%		Puget Sound	MEDIUM
0.05	261.3	P04	N/O SLATER ROAD I/C - FERNDALE	47,229	2.6%		Western	MEDIUM
008	20.67	R003W	AT SR 101 OXING - OLYMPIA	18,317	6.3%		Puget Sound	LOW-to-MEDIUM
009	28.75	P21	N/O HIGHLAND DRIVE - ARLINGTON	11,886	-0.5%		Puget Sound	LOW
012	77.78	R075	E/O KENNEDY ROAD-SALKUM	6,792	-2.6%		Western	LOW
012	185.3	S818S	S/O SR 410 - WHITE PASS	2,365	-5.4%	Rec	Central	LOW
012	185.6	S818E	E/O SR 410 - NACHES	4,824	9.1%	Rec	Central	LOW
0 12	307.9	R008	E/O SR 730 WALLULA SPUR	6,932	3.0%		Eastern	LOW

+Volume Group

LOW (Less than 7,000 vehicles per day)

LOW-To-MEDILM (7,000 - < 40,000 vehicles per day)

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

HIGH (100,000 or more vehicles per day)



Percent

# CONTINUOUS COUNTER SITE MONTHLY COMPARISON TO PREVIOUS 3-YEAR AVERAGE OF SAME MONTH MAY 2009

change compared Recreational Monthly to previous Route Average Daily Geographic VOLUME 3-year SR MP RRT SITE DESCRIPTION Traffic (MADT) (R)\* Location GROUP+ average 012 377 P05 W/O TUCANNON RIVER BR - DAYTON 2,265 -2.3% Central LOW 012 390.7 R067 2,186 -3.9% Central LOW AT PATAHA CREEK BRIDGE 014 11.9 P06 E/O ALPINE RD - CAMAS 39,213 0.6% Western LOW-to-MEDIUM 100.6 R076 W/O SR 14 MAR YHILL SPUR -MAR YHILL 2,197 -24.9% Central LOW 014 102.3 R077 1,950 8.8% Central LOW 014 W/O MAR YHILL RD - STONEHENGE Puget Sound MEDIUM 016 8.43 R044 W/O TACOMA NARROWS BR - TACOMA 78,647 5.4% 016 18.65 R088 W/O SR 302 PURDY SPUR - BURLEY 40,798 5.3% Puget Sound MEDIUM 017 30.37 R020 S/OLEE ROAD - OTHELLO 6,208 9.6% Central LOW ON SR 17 N/O SR 172 - MANSFIELD 574 -3.9% Central LOW 017 112.3 R100 018 5.26 P20 E/O SR 164 I/C - AUBURN EAST 56,976 0.5% Puget Sound MEDIUM 12.55 D12 AT 180TH AVE SE UXING - COVINGTON 32,814 5.5% Puget Sound 0 18 LOW-to-MEDIUM 018 27,62 5838 S/O SR 090 I/C - ECHO GLEN 22,681 6.3% Puget Sound LOW-to-MEDIUM Puget Sound 020 20,02 S706 E/O RHODODENDRON PARK DR - COUPEVILLE 8,892 0.0% LOW-to-MEDIUM 191.9 R037 W/O RADER ROAD - WINTHROP 2,167 4.3% Central LOW 020 Rec 304.6 5820 2,477 -0.2% Eastern LOW 020 W/O FAIR GROUNDS ROAD-REPUBLIC S612 024 43.5 AT COLUMBIA RIVR BRIDGE - VERNITA BRIDGE 3,966 9.0% Central LOW

+Volume Group

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



Percent

# CONTINUOUS COUNTER SITE MONTHLY COMPARISON TO PREVIOUS 3-YEAR AVERAGE OF SAME MONTH MAY 2009

5R	MP	RRT	SITE	DESCRIPTION	Monthly Average Daily Traffic (MADT)	change compared to previous 3-year average	Recreational Route (R)*	Geographic Location	VOLUME GROUP+
025	97		P27	N/O BOSSBURG ROAD - BOSSBURG	333	-12.6%		Eastern	LOW
026	43.06		R066	E/OSR 17 I/C - OTHELLO	2,892	3.7%	Rec	Central	LOW
027	77.3		P30	S/O GIBBS ROAD - SPANGLE	6,505	3.1%		Eastern	LOW
082	24.83		R048	E/O SELAH OR REST AREA ON RAMP - SELAH	17,559	3,8%		Central	LOW-to-MEDIUM
082	48.5		P08	W/O SR 22 I/C - BUENA	25,209	4.6%		Central	LOW-to-MEDIUM
082	121.2		P09	W/O COFFIN R.D. I/C - PLYMOUTH	16,540	6.1%		Eastern	LOW-to-MEDIUM
082	132.0		R086	E/O SR 14 - WALLULA	17,535	6.5%		Central	LOW-to-MEDIUM
090	4.22		R017	E, END OF MT BAKER TUNNEL- SEATTLE	119,523	0.5%		Puget Sound	HIGH
090	14.65		S825	W/O SR 900 I/C - ISSAQUAH	120,946	-0.4%		Puget Sound	HIGH
090	33.56		R039	W/O 468TH AVE SE I/C-NORTH BEND	37,028	6.9%	Rec	Puget Sound	LOW-to-MEDIUM
090	47.71		5901	AT TINKHAM ROAD UXING -TINKHAM RD	33,021	5.2%	Rec	Western	LOW-to-MEDIUM
090	52.24		5902	AT SR 906 OXING - SNOQUALMIE	33,235	11.2%	Rec	Western	LOW-to-MEDIUM
090	82.7		B04	W/OW FIRST STREET I/C - QLE ELUM	32,230	4.7%	Rec	Central	LOW-to-MEDIUM
090	136.6		R042	E/O HUNTZINGER ROAD I/C - VANTAGE	17,167	6.4%	Rec	Central	LOW-to-MEDIUM
090	180.3		R055	E/O SR 17 I/C - MOSES LAKE	11,714	3.3%	Rec	Central	LOW-to-MEDIUM
090	254.2		R014	E/O FISHTRAP ROAD I/C -FISHTRAP	18,204	3.3%		Eastern	LOW-to-MEDIUM

+Volume Group

LOW (Less than 7,000 vehicles per day)

LOW-To-MEDILM (7,000 - < 40,000 vehicles per day)

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

HIGH (100,000 or more vehicles per day)



# CONTINUOUS COUNTER SITE MONTHLY COMPARISON TO PREVIOUS 3-YEAR AVERAGE OF SAME MONTH MAY 2009 Percent

5R	MP R	RT	SITE		Monthly Average Daily Traffic (MADT)	change compared to previous 3-year average	Recreational Route (R)*	Geographic Location	VOLUME GROUP+
090	285.2		R036	W/O SPRAGUE AVE I/C - SPOKANE	109,489	-3.2%		Eastern	HIGH
090	298.4		P24	W/O SPOKANE BRIDGE RD I/C - SPOKANE	49,085	0.6%		Eastern	MEDIUM
097	13.41		R041	N/O STATE FRONTAGE RD - GOLDENDALE	5,358	8.9%		Central	LOW
097	66.3		P03	S/O PROGRESSIVE ROAD WYE CONN - WAPATO	12,722	5.3%		Central	LOW-to-MEDIUM
097	178.2		R047S	S/O OLD BLEWETT ROAD -BLEWETT PASS	6,057	4.6%	Rec	Central	LOW
097	201.5 AR		R059	N/O OHME GARDEN RD/WAREHOUSE RD - WENAT	C 7,382	4.0%		Central	LOW
097	220.6		R084	N/O BRAYS ROAD - ORONDO	4,719	5.0%		Central	LOW
097	250.4		P11	N/O COUNTY ROAD NO 1525 - PATEROS	4,589	5.1%		Central	LOW
097	286.2		P23	S/O SR 20 - OKANOGAN	4,120	0.1%		Central	LOW
097	293.4		R068	N/O COPPLE RIOAD - OMAK	5,862	5.6%		Central	LOW
097	335.3		P22	S/O OLD HIGHWAY ROAD - OROVILLE	2,048	5.7%		Central	LOW
101	0.6		S841W	NW/O SR 401 - MEGLER	6,039	3.9%		Western	LOW
101	28.95		R074	N/O SR 4 - NEMAH	2,430	4.0%	Rec	Western	LOW
101	104.6		R054	S/O HENSEL RD - HUMPTULIPS	2,297	3.6%		Western	LOW
101	203.9		R073	E/O SR 113/BURNT MOUNTAIN RD	2,179	-3.2%		Western	LOW
101	254.4		R069	AT WEIGH STATION-PORT ANGELES	21,109	-8.2%		Western	LOW-to-MEDIUM

+Volume Group

LOW (Less than 7,000 vehicles per day)

LOW-To-MEDILM (7,000 - < 40,000 vehicles per day)

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HIGH (100,000 or more vehicles per day)



# CONTINUOUS COUNTER SITE MONTHLY COMPARISON TO PREVIOUS 3-YEAR AVERAGE OF SAME MONTH MAY 2009

5R	МР	RRT	SITE		Monthly Average Daily Traffic (MADT)	Percent change compared to previous 3-year average	Recreationa Route (R)*	 Geographic Location	YOLUME GROUP+
101	281.2		R023	S/O ORCAS AND HOLLAND DRIVES -DISCOVERY B	A 8,900	-21.7%		Western	LOW-to-MEDIUM
101	324.8		P18	S/O EAGLE CREEK BRIDGE - LILLIWAUP	6,881	138.8%	Rec	Puget Sound	LOW
101	361.4		R003N	N/O SR 8 - OLYMPIA	33,378	7.2%		Puget Sound	LOW-to-MEDIUM
101	362.0		R003E	E/O SR 8 - OLYMPIA	51,660	6.8%		Puget Sound	MEDIUM
101	366.7		R098	E/O OLYMPIA/COOPER POINT RD	99,703	2,3%		Puget Sound	MEDIUM
104	19.48		R095	W/O OLD PORT GAMBLE ROAD WYE CONN -KINGS	ST 2,472	-59.9%		Puget Sound	LOW
105	31.92		R043	AT ELK RIVER BRIDGE - WESTPORT	5,791	0.1%		Western	LOW
167	23.7		P6	N/O S 212TH ST I/C - KENT	115,329	-2.2%		Puget Sound	HIGH
182	6.34		R081	AT COLUMBIA RIVER BRIDGE-PASCO	54,524	12.1%		Eastern	MEDIUM
195	6.01		P13	S/OBALER RD 9440 - UNIONTOWN	4,822	-0.7%		Eastern	LOW
195	22.2		P14	S/O SR 270 - PULLMAN	3,196	0.3%		Eastern	LOW
195	87.7		P15	N/O WASHINGTON RD - SPANGLE	8,787	-2.9%		Eastern	LOW-to-MEDIUM
205	28.84		R051	N/O MILL PLAIN I/C - VANCOUVER	100,628	-9.9%		Western	HIGH
221	13.1		P17	S/O SELLAR DS RD - PR OSSER	1,934	-2.1%		Central	LOW
285	0.21		S103	AT COLUMBIAIRIV BR - EAST WENATCHEE	53,231	-0.7%		Central	MEDIUM
307	2.31		R096	S/O NE GUNDERSON R.D.	16,131	2.2%		Puget Sound	LOW-to-MEDIUM

+Volume Group

LOW (Less than 7,000 vehicles per day)

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

HIGH (100,000 or more vehicles per day)



# CONTINUOUS COUNTER SITE MONTHLY COMPARISON TO PREVIOUS 3-YEAR AVERAGE OF SAME MONTH MAY 2009

5R	MP	RRT	SITE	DESCRIPTION	Monthly Average Daily Traffic (MADT)	Percent change compared to previous 3-year average	Recreational Route (R)*	l Geographic Location	VOLUME GROUP+
395	18,58		R087	AT COLUMBIA RIVER BRIDGE - KENNEWICK	54,906	-5.1%		Central	MEDIUM
					•				
395	27.2		B03	S/O VINEYARD DR - PASCO	15,489	8.7%		Central	LOW-to-MEDIUM
395	36.24		R061	N/O E ELM RD - ELTOPIA	14,109	8.9%		Eastern	LOW-to-MEDIUM
395	93.01		P7C	S/O SR 90 I/C - RITZVILLE	7,334	1.3%		Eastern	LOW
395	190.3		R063	S/O SR 292 - LOON LAKE	9,516	6.4%		Eastern	LOW-to-MEDIUM
395	235.6		R070	N/O GREENWOOD LOOP RD	7,892	-3.7%		Eastern	LOW-to-MEDIUM
395	260		P26	N/O COUNTY ROAD - ORIENT	667	-4.2%		Eastern	LOW
401	0.15		S841E	NE/O SR 101-MEGLER	2,354	-0.6%		Western	LOW
405	6.95		S821	N/O NE 30TH STREET I/C - SEATTLE	144,914	-1.6%		Puget Sound	HIGH
405	18.71		5822	N/O SR 908 I/C - REDMOND	177,731	6.2%		Puget Sound	HIGH
410	116.3		S818W	W/OSR 12 - CHINOOK PASS	2,380	12.6%	Rec	Central	LOW
411	7.97		S819	S/O SANDY BEND ROAD - LEXINGTON	3,800	-6.9%		Western	LOW
433	0.7		S503	AT COLUMBIA RIVER BR - LONGVIEW	20,013	-3,9%		Western	LOW-to-MEDIUM
504	19.43		S840	E/O PRIVATE ROAD 1900 - KID VALLEY	1,043	5.7%	Rec	Western	LOW
509	26.37		D14	N/O 5R 518 I/C - BURIEN	58,834	-1.5%		Puget Sound	MEDIUM
5 12	1.53		D3	W/O SR 7 I/C PARKLAND	89,952	-1.3%		Puget Sound	MEDIUM

<sup>+</sup>Volume Group

LOW (Less than 7,000 vehicles per day)

LOW-To-MEDILM (7,000 - < 40,000 vehicles per day)

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

HIGH (100,000 or more vehicles per day)



# CONTINUOUS COUNTER SITE MONTHLY COMPARISON TO PREVIOUS 3-YEAR AVERAGE OF SAME MONTH MAY 2009 Percent

5R	MP	RRT	SITE	DESCRIPTION	Monthly Average Daily Traffic (MADT)	change compared to previous 3-year average	Recreational Route (R)*	Geographic Location	VOLUME GROUP+
5 18	0.35		D13	E/O SR 509 I/C - SEATAC	55,815	-2.9%		Puget Sound	MEDIUM
520	4		D10	W/O 76TH AVE NE UXING -TOLLPIAZA	98,745	-3.2%		Puget Sound	MEDIUM
520	7.93		S533	W/O 148TH AVENUE NE I/C	94,646	-7.1%		Puget Sound	MEDIUM
520	12.01		S547	E/O W.LAKE SAMM PKWY I/C	66,923	-3.7%		Puget Sound	MEDIUM
522	13.3		P19	W/O SR 9 I/C - WOODINVILLE	46,386	0.9%		Puget Sound	MEDIUM
970	6.85		R057	W/O TEANAWAY RD - TEANAWAY	5,057	8.1%	Rec	Central	LOW

+Volume Group

LOW (Less than 7,000 vehicles per day)

LOW-To-MEDILM (7,000 - < 40,000 vehicles per day)

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

HIGH (100,000 or more vehicles per day)

#### 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 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 last year same month for 3 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

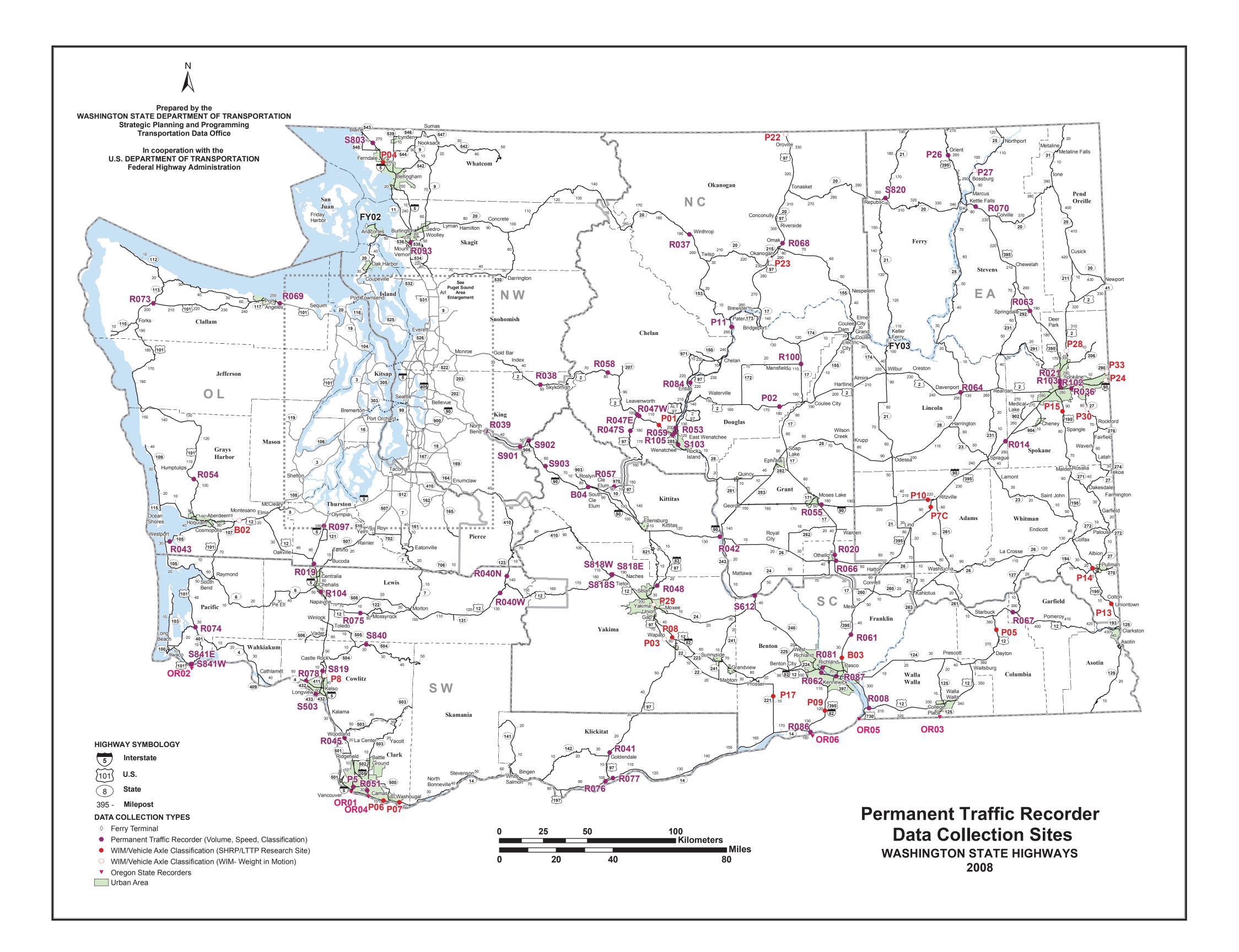
For questions about this report or further site information, please contact the ADC section supervisor at 360-570-2392 or E mail this section at <a href="mailto:tdoadc@wsdot.wa.gov">tdoadc@wsdot.wa.gov</a>

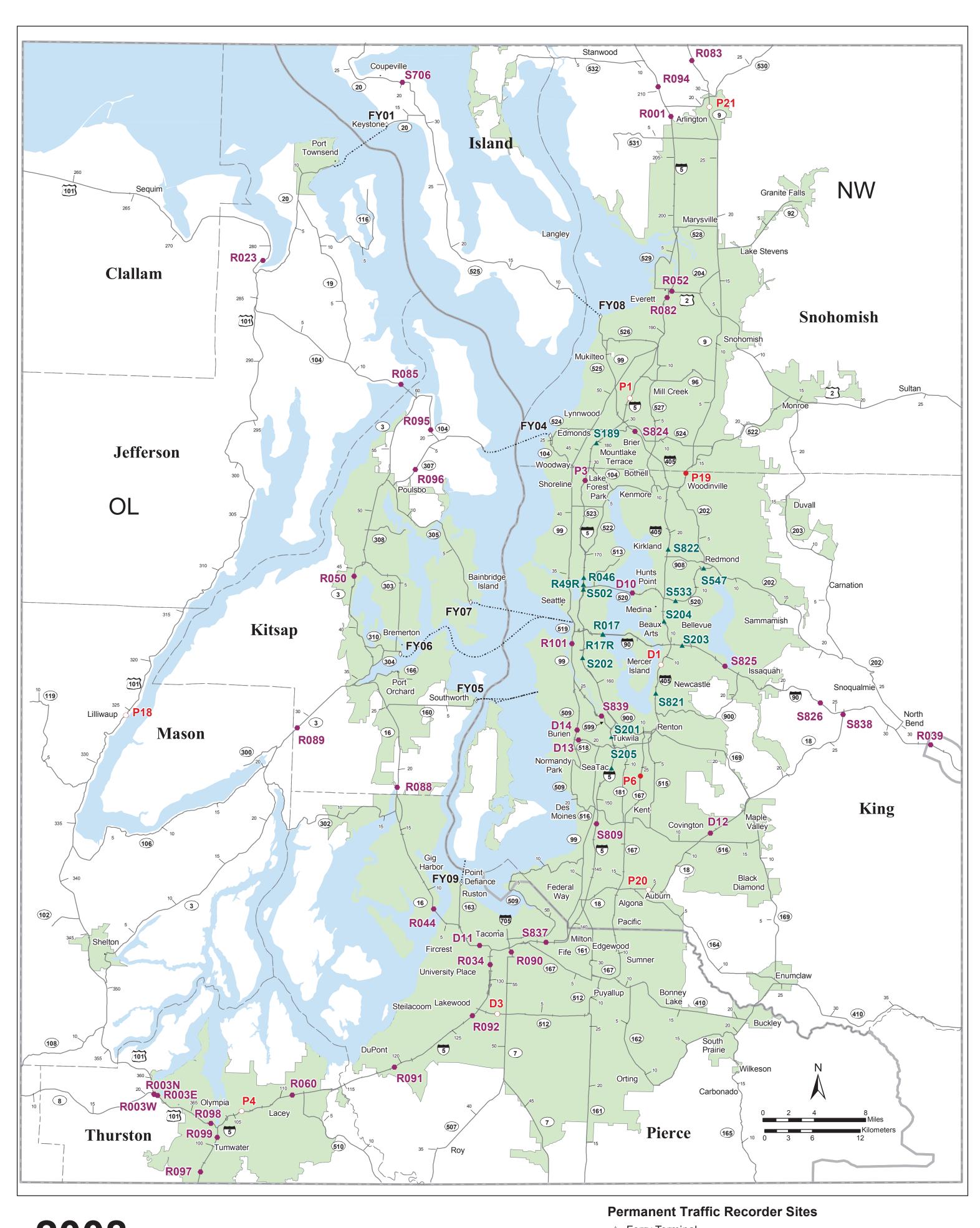
#### **GLOSSARY**

<u>PTR</u>	Permanent Traffic Recorder
<u>ADT</u>	Average Daily Traffic
TRIPS	Transportation Information and Planning Support System
<u>SRMP</u>	State Route Mile Post

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 office (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 Transportation Data Office at <a href="mailto:tdoadc@wsdot.wa.gov">tdoadc@wsdot.wa.gov</a>





# 2008 **Puget Sound Enlargement**

- ♦ 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 Weight in Motion)
- Urban Area