Permanent Traffic Recorder Data Collection Report

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

SEPTEMBER 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

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

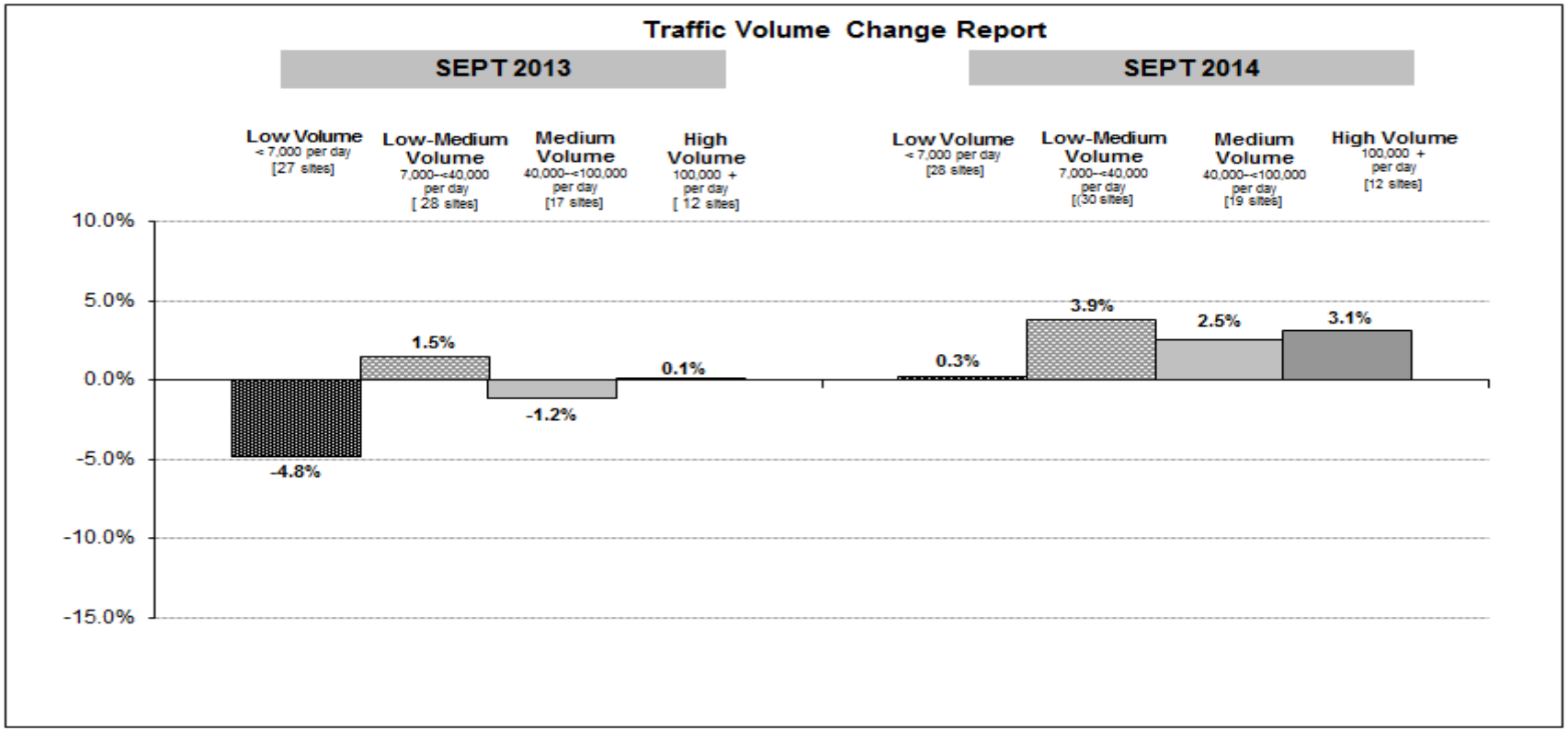
Executive Summary

This report provides information on traffic volume changes and trends. The data for this report is collected from ~~8~~9 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 (+3.17**%)** when compared to the 5-year average from 2003 to 2007.

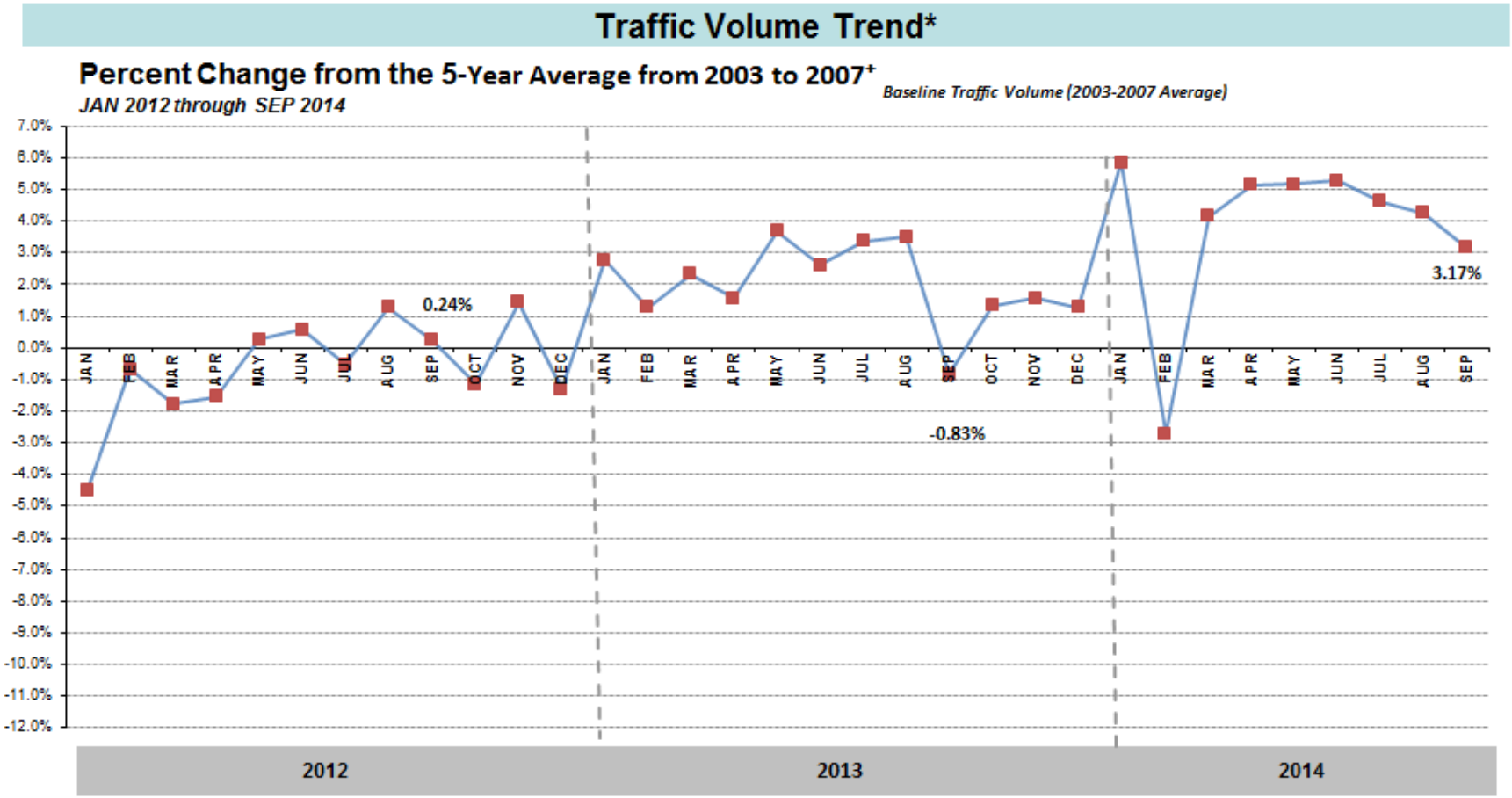
Traffic Volume Change Report for SEPTEMBER 2014*

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: Transportation Data and GIS Office from Permanent Traffic Recorder Sites

Compared to the traffic volume trend (average daily traffic) the overall traffic volumes for **September 2014** reflect an increase of **(+3.17%).**



*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. SEP14 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%).

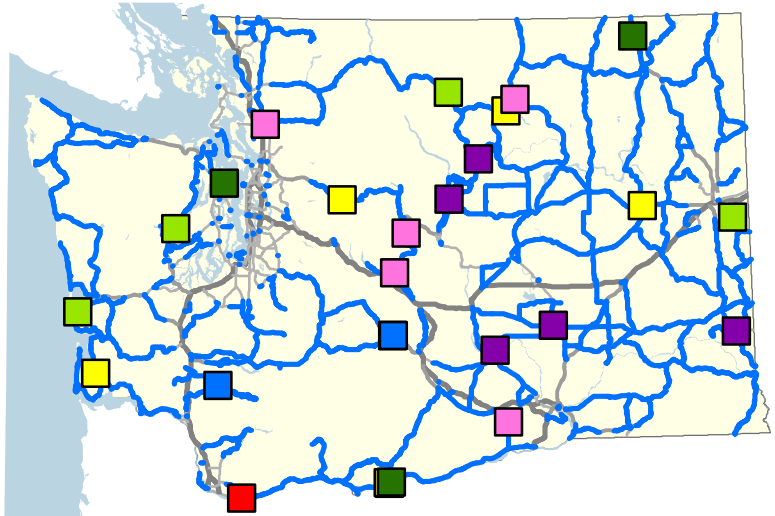
History of the Data:

-**Jan 2012** - Winter storm - Ice/Snow with widespread power outages.
-Feb 2014 - Winter storm - Floods

Volume Change at Permanent Traffic Recorder Sites - September 2014

Low Volume Sites

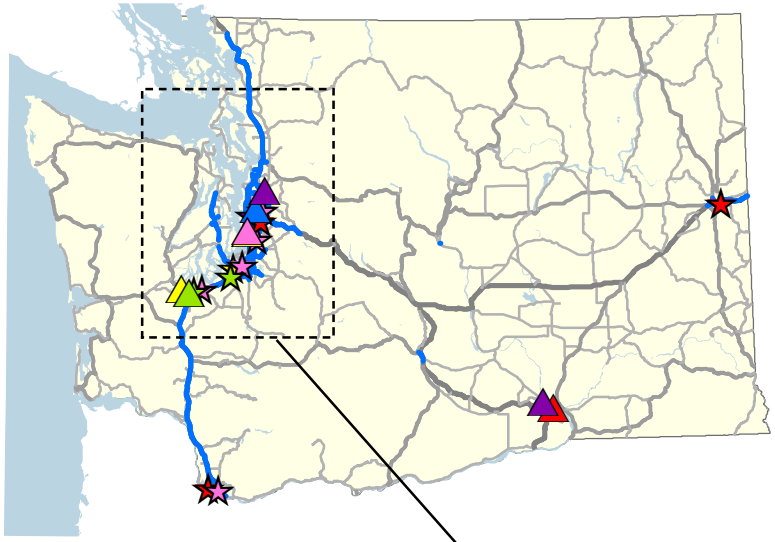
Less than 7,000 Vehicles Per Day



Medium to High Volume Sites

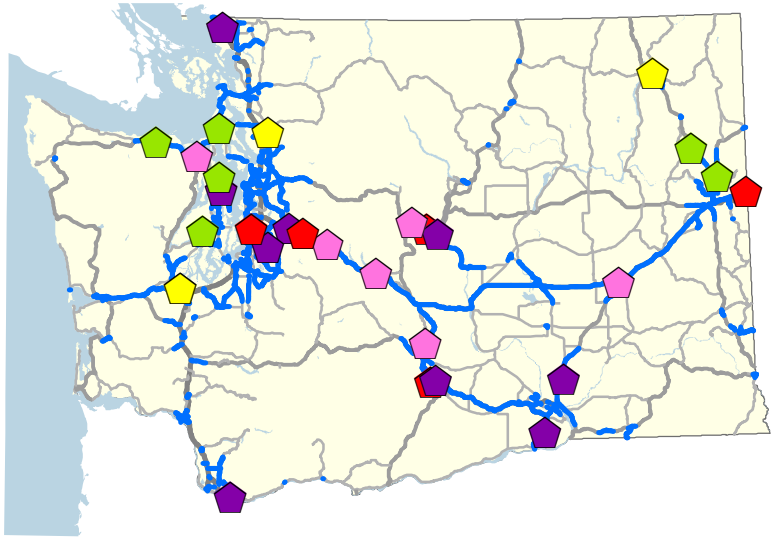
40,000 to 100,000 Vehicles Per Day (Medium Volume)

Over 100,000 Vehicles Per Day (High Volume)



Low to Medium Volume Sites

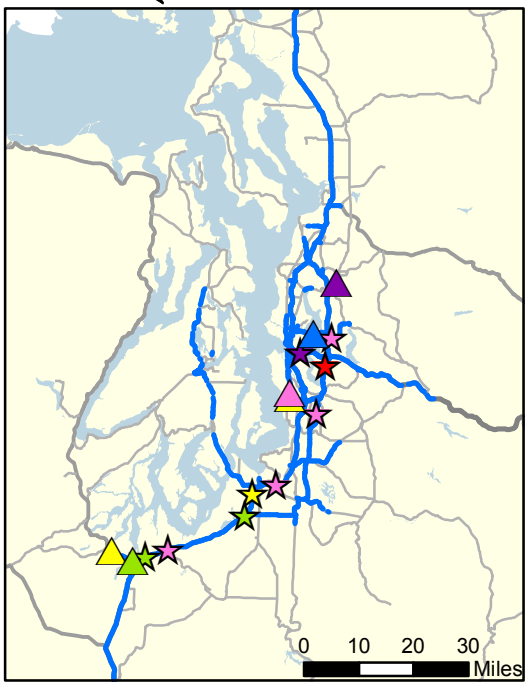
7,000 to 40,000 Vehicles Per Day



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



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Travel Data and Analysis Branch
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PERMANENT TRAFFIC RECORDER SITE MONTHLY COMPARISON TO PREVIOUS 5-YEAR AVERAGE OF SAME MONTH
SEP 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	50.12		R038	E/O NE OLD CASCADE HWY - SKYKOMISH	4,959	-0.2%	Rec	Western	LOW
2	104.84		R047E	E/O US 97 - DRYDEN	17,774	3.4%		Central	LOW-to-MEDIUM
2	113.1		P01	W/O RED APPLE RD - CASHMERE	25,211	7.6%		Central	LOW-to-MEDIUM
2	119.77		R053	E/O US 97AR I/C - WENATCHEE	24,824	14.8%		Central	LOW-to-MEDIUM
2	250.5		R064	W/O GUNNING RD - DAVENPORT	3,143	1.3%		Eastern	LOW
2	289.79		R021	N/O WALTON AVE - SPOKANE	41,397	-10.2%		Eastern	MEDIUM
2	301.4		P28	S/O NORWOOD ROAD - CHATTAROY	17,422	-5.9%		Eastern	LOW-to-MEDIUM
3	28.68		R089	S/O LAKE FLORA RD.- GRAPEVIEW	17,403	-2.1%		Puget Sound	LOW-to-MEDIUM
3	44.33		R050	N/O NEWBERRY HILL I/C - SILVERDALE	46,142	4.0%		Western	MEDIUM
5	1.98		P5	S/O SR 500/39TH ST I/C -VANCOUVER	131,787	7.0%		Western	HIGH
5	44.3		P8	N/O KELSO WEIGH STATION	53,371	-0.2%		Western	MEDIUM
5	86.32		R019	S/O US 12 I/C - GRAND MOUND	62,896	0.8%		Puget Sound	MEDIUM
5	100.54		R097	S/O TUMWATER BLVD	72,220	1.8%		Puget Sound	MEDIUM
5	106.7		P4	S/O PACIFIC AVENUE I/C -OLYMPIA	137,159	-3.7%		Puget Sound	HIGH
5	111.01		R060	S/O SR 510 I/C -LACEY	116,717	3.3%		Puget Sound	HIGH
5	126.76		R092	S/O SR 512 I/C - TACOMA	144,495	-3.6%		Puget Sound	HIGH

+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

*"Rec" is Recreational Route

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5	131.18		R034	N/O SO 56TH ST I/C - TACOMA	191,839	0.2%		Puget Sound	HIGH
5	136.8		S837	S/O SR 99 I/C - FIFE	189,581	2.4%		Puget Sound	HIGH
5	207.78		R001	S/O SR 530 I/C - MARYSVILLE	86,556	0.8%		Puget Sound	MEDIUM
5	226.96		R093	N/O SR 536 I/C - MT. VERNON	71,509	2.5%		Western	MEDIUM
5	261.33		P04	N/O SLATER ROAD I/C - FERNDALE	51,698	15.7%		Western	MEDIUM
5	269.41		S803	S/O BIRCH BAY/LYNDEN RD I/C - CUSTER	33,923	23.8%		Western	LOW-to-MEDIUM
8	20.67		R003W	AT US 101 OXING - OLYMPIA	17,864	-1.4%		Puget Sound	LOW-to-MEDIUM
9	28.75		P21	N/O HIGHLAND DRIVE - ARLINGTON	12,075	-0.6%		Puget Sound	LOW-to-MEDIUM
9	32.98		R083	N/O 53RD AVE NE - BRYANT	2,205	5.9%		Puget Sound	LOW
12	185.25		S818S	S/O SR 410 - WHITE PASS	2,459	-13.8%	Rec	Central	LOW
12	185.62		S818E	E/O SR 410 - NACHES	4,902	-11.5%	Rec	Central	LOW
14	11.9		P06	E/O ALPINE RD - CAMAS	42,157	11.7%		Western	LOW-to-MEDIUM
14	17.7		P07	E/O 32ND ST - WASHOUGAL	6,929	6.0%		Western	LOW
14	100.64		R076	W/O SR 14 MARYHILL SPUR -MARYHILL	2,354	-1.4%		Central	LOW
14	102.27		R077	W/O MARYHILL RD - STONEHENGE	1,851	-8.1%		Central	LOW
16	18.65		R088	W/O SR 302 PURDY SPUR - BURLEY	48,205	10.2%		Puget Sound	MEDIUM

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+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)

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18	5.26		P20	E/O SR 164 I/C - AUBURN EAST	60,805	11.4%		Puget Sound	MEDIUM
18	12.55		D12	AT 180TH AVE SE UXING - COVINGTON	36,324	22.8%		Puget Sound	LOW-to-MEDIUM
18	27.62		S838	S/O I-90 I/C - ECHO GLEN	26,331	24.7%		Puget Sound	LOW-to-MEDIUM
20	20.02		S706	E/O RHODODENDRON PARK DR - COUPEVILLE	8,654	-4.4%		Puget Sound	LOW-to-MEDIUM
20	191.9		R037	W/O RADER ROAD - WINTHROP	2,422	-3.5%	Rec	Central	LOW
24	43.5		S612	AT COLUMBIA RVR BRIDGE - VERNITA BRIDGE	5,401	25.6%		Central	LOW
26	43.06		R066	E/O SR 17 I/C - OTHELLO	3,288	12.9%	Rec	Central	LOW
27	77.3		P30	S/O GIBBS ROAD - SPOKANE VALLEY	6,675	-3.9%		Eastern	LOW
82	24.83		R048	E/O SELAH CR REST AREA ON RAMP - SELAH	18,515	4.1%		Central	LOW-to-MEDIUM
82	48.5		P08	W/O SR 22 I/C - BUENA	28,126	10.4%		Central	LOW-to-MEDIUM
82	121.2		P09	W/O COFFIN RD I/C - PLYMOUTH	19,136	15.6%		Eastern	LOW-to-MEDIUM
90	4.22		R017	AT E. END OF MT BAKER TUNNEL- SEATTLE	134,404	12.6%		Puget Sound	HIGH
90	23.54		S826	E/O JONES ROAD I/C - PRESTON	63,982	20.2%		Puget Sound	MEDIUM
90	33.56		R039	W/O 468TH AVE SE I/C-NORTH BEND	37,600	6.2%	Rec	Puget Sound	LOW-to-MEDIUM
90	47.71		S901	AT TINKHAM ROAD UXING -TINKHAM RD	33,433	2.1%	Rec	Western	LOW-to-MEDIUM
90	82.7		B04	W/O W FIRST STREET I/C - CLE ELUM	32,743	2.7%	Rec	Central	LOW-to-MEDIUM

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+Volume Group

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90	218.83		P10	W/O US 395 I/C - RITZVILLE	11,782	3.6%	Rec	Eastern	LOW-to-MEDIUM
90	285.23		R036	W/O SPRAGUE AVE I/C - SPOKANE VALLEY	116,850	8.4%		Eastern	HIGH
97	66.3		P03	S/O PROGRESSIVE ROAD WYE CONN - WAPATO	13,672	9.7%		Central	LOW-to-MEDIUM
97	178.19		R047S	S/O OLD BLEWETT ROAD -BLEWETT PASS	6,427	2.5%	Rec	Central	LOW
97	201.53	*AR	R059	N/O OHME GARDEN RD/WAREHOUSE RD - WENATC	7,440	1.8%		Central	LOW
97	220.55		R084	N/O BRAYS ROAD - ORONDO	5,029	12.6%		Central	LOW
97	250.35		P11	N/O COUNTY ROAD NO 1525 - PATEROS	5,172	15.8%		Central	LOW
97	286.16		P23	S/O SR 20 - OKANOGAN	4,297	0.1%		Central	LOW
97	293.42		R068	N/O COPPLE ROAD - OMAK	5,935	4.7%		Central	LOW
101	28.95		R074	N/O SR 4 - NEMAH	3,071	0.4%	Rec	Western	LOW
101	254.35		R069	AT WEIGH STATION-PORT ANGELES	23,257	-4.1%		Western	LOW-to-MEDIUM
101	281.15		R023	S/O ORCAS AND HOLLAND DRIVES -DISCOVERY BA	12,822	2.5%		Western	LOW-to-MEDIUM
101	324.8		P18	S/O EAGLE CREEK BRIDGE - LILLIWAUP	2,934	-4.2%	Rec	Puget Sound	LOW
101	361.37		R003N	N/O SR 8 - OLYMPIA	30,963	-1.9%		Puget Sound	LOW-to-MEDIUM
101	362.02		R003E	E/O SR 8 - OLYMPIA	48,727	-2.0%		Puget Sound	MEDIUM
101	366.69		R098	E/O OLYMPIA/COOPER POINT RD	94,204	-3.9%		Puget Sound	MEDIUM

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104	13.92		R085	AT HOOD CANAL BRIDGE	17,594	-2.4%		Puget Sound	LOW-to-MEDIUM
104	19.48		R095	W/O OLD PORT GAMBLE ROAD WYE CONN -KINGST	5,898	-8.5%		Puget Sound	LOW
105	31.92		R043	AT ELK RIVER BRIDGE - WESTPORT	5,912	-4.9%		Western	LOW
167	23.7		P6	N/O S 212TH ST I/C - KENT	123,119	3.0%		Puget Sound	HIGH
182	6.34		R081	AT COLUMBIA RIVER BRIDGE-PASCO	61,772	38.8%		Eastern	MEDIUM
195	22.2		P14	S/O SR 270 - PULLMAN	3,720	12.0%		Eastern	LOW
205	28.84		R051	N/O MILL PLAIN I/C - VANCOUVER	117,250	5.0%		Western	HIGH
221	13.1		P17	S/O SELLARDS RD - PROSSER	2,505	4.7%		Central	LOW
290	17.66		P33	W/O IDAHO ROAD - SPOKANE	8,917	9.5%		Eastern	LOW-to-MEDIUM
307	2.31		R096	S/O NE GUNDERSON RD.	17,644	14.3%		Puget Sound	LOW-to-MEDIUM
395	18.58		R087	AT COLUMBIA RIVER BRIDGE - KENNEWICK	60,855	7.6%		Central	MEDIUM
395	36.24		R061	N/O E ELM RD - ELTOPIA	15,733	20.2%		Eastern	LOW-to-MEDIUM
395	190.29		R063	S/O SR 292 - LOON LAKE	8,810	-2.1%		Eastern	LOW-to-MEDIUM
395	235.6		R070	N/O GREENWOOD LOOP RD	8,135	-1.2%		Eastern	LOW-to-MEDIUM
395	260		P26	S/O LOUISE AVENUE- ORIENT	679	-9.8%		Eastern	LOW
405	9.26		D1	AT 112TH AVE SE UXING - BELLEVUE	150,874	6.2%		Puget Sound	HIGH

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410	116.26		S818W	W/O US 12 - CHINOOK PASS	2,534	-12.2%	Rec	Central	LOW
504	19.43		S840	E/O PRIVATE ROAD 1900 - KID VALLEY	1,134	-24.4%	Rec	Western	LOW
509	26.37		D14	N/O SR 518 I/C - BURIEN	60,797	3.6%		Puget Sound	MEDIUM
518	0.35		D13	E/O SR 509 I/C - SEATAC	58,774	-0.3%		Puget Sound	MEDIUM
520	4		D10	W/O 76TH AVE NE UXING -TOLLPIAZA	66,231	-34.4%		Puget Sound	MEDIUM
520	7.93		S533	W/O 148TH AVENUE NE I/C	103,802	2.8%		Puget Sound	HIGH
522	13.3		P19	W/O SR 9 I/C - WOODINVILLE	48,833	11.8%		Puget Sound	MEDIUM
599	1.15		S839	E/O SR 99 I/C - TUKWILA	43,710	9.9%		Puget Sound	LOW-to-MEDIUM
970	6.85		R057	W/O TEANAWAY RD - TEANAWAY	5,128	4.8%	Rec	Central	LOW

+Volume Group

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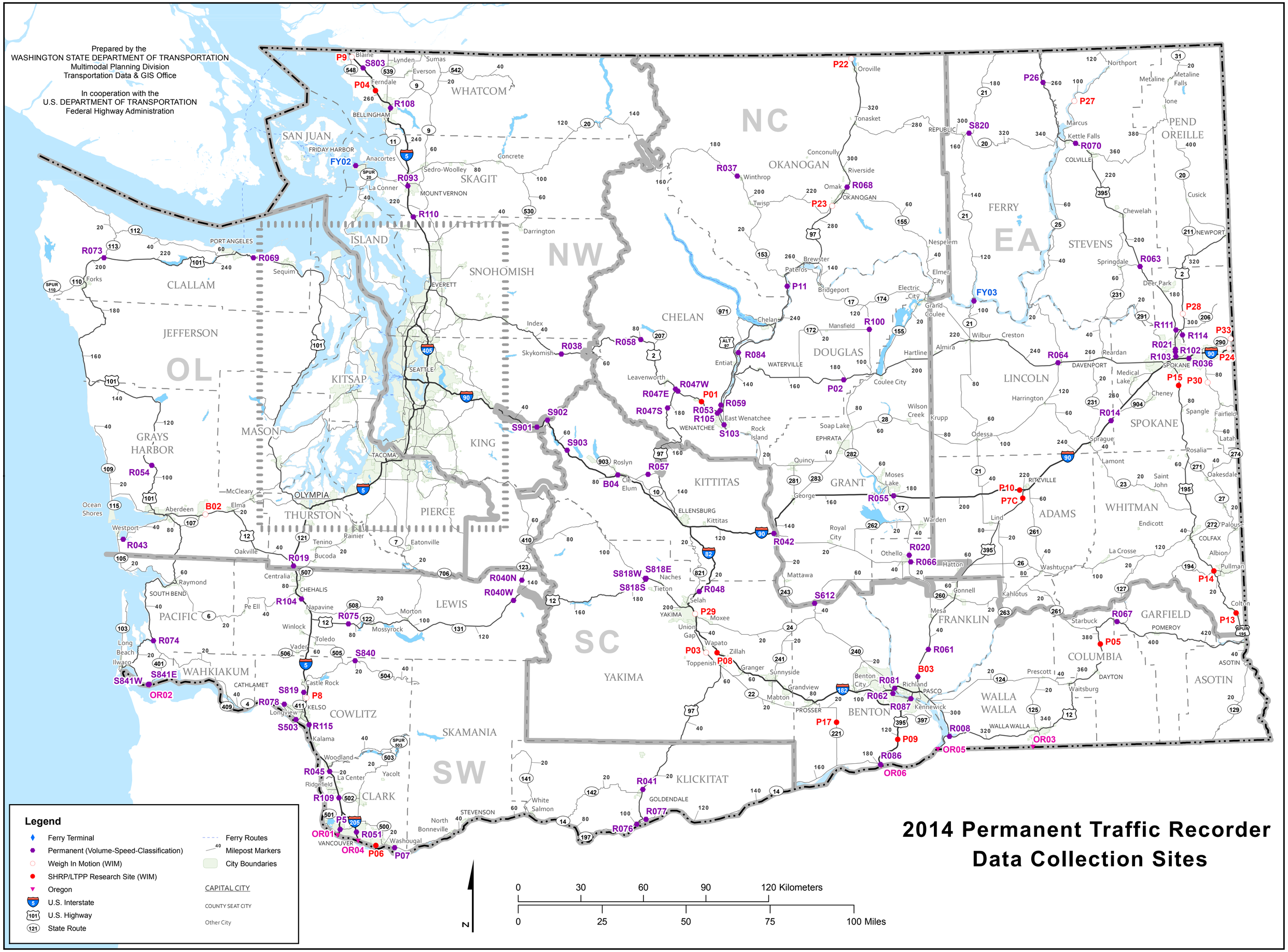
Prepared by the
WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
Multimodal Planning Division
Transportation Data & GIS Office
In cooperation with the
U.S. DEPARTMENT OF TRANSPORTATION
Federal Highway Administration
2014 Permanent Traffic Recorder
Data Collection Sites
Legend
Ferry Terminal
Permanent (Volume-Speed-Classification)
Weigh In Motion (WIM)
SHRP/LTPP Research Site (WIM)
Oregon
U.S. Interstate
U.S. Highway
State Route
Ferry Routes
Milepost Markers
City Boundaries
CAPITAL CITY
COUNTY SEAT CITY
Other City
0 30 60 90 120 Kilometers
0 25 50 75 100 Miles
N
NC
NW
EA
OL
SC
SW
WHATCOM
SAN JUAN
SKAGIT
ISLAND
SNOHOMISH
CLALLAM
JEFFERSON
KITSAP
MASON
GRAYS HARBOR
KING
THURSTON
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GARFIELD
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P9
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FY02
R093
R110
R073
R069
R038
R058
R037
R068
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P22
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S820
R070
R063
P11
FY03
R100
R084
P02
R064
R111
R114
P33
R021
R102
R103
R036
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P30
R047W
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R047S
R105
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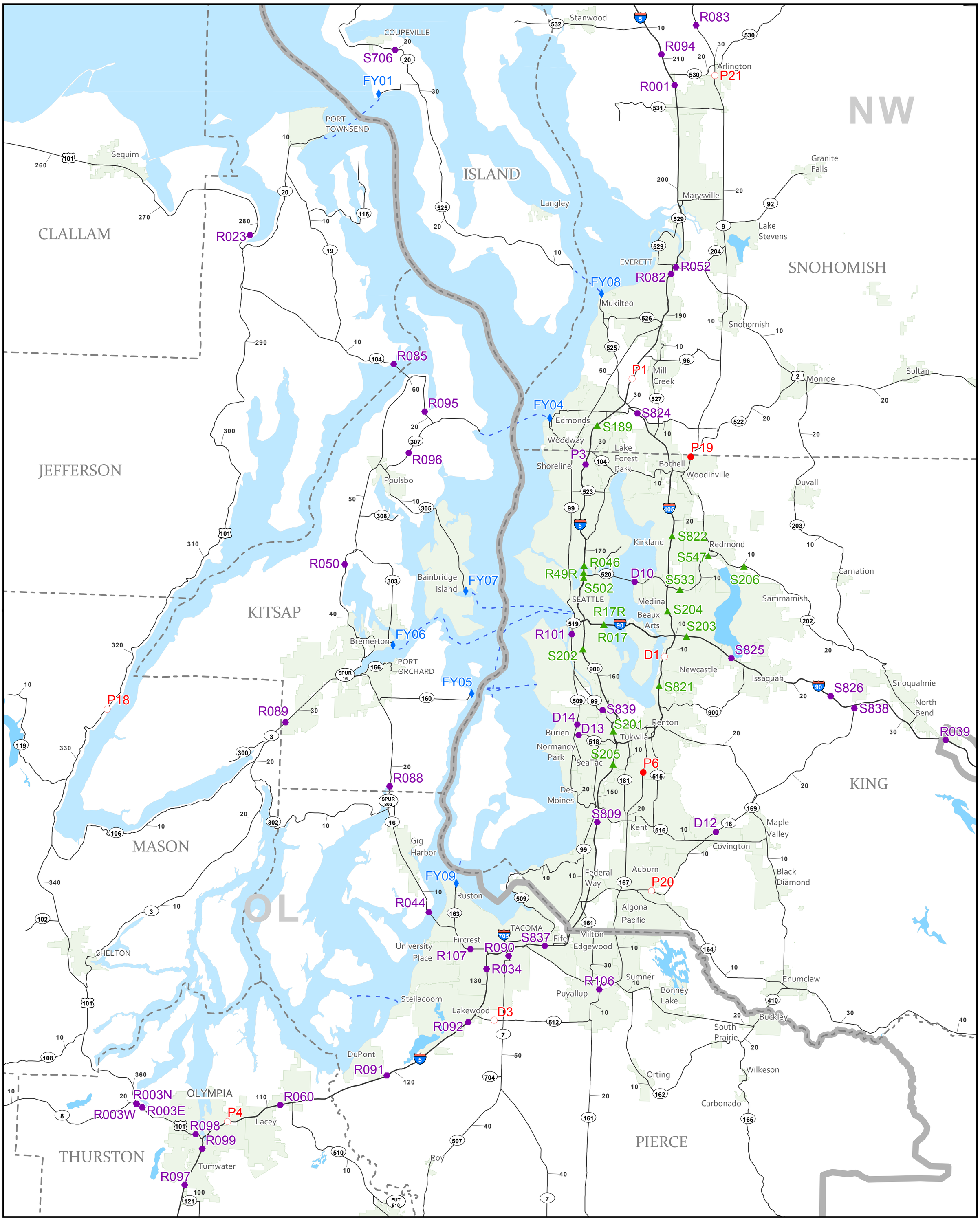
S902
S901
S903
R057
B04
R055
P10
P7C
R054
B02
R043
R019
R042
R020
R066
S818W
S818E
S818S
R048
S612
R040N
R040W
R104
R075
P29
P03
P08
R061
B03
R067
P05
P14
P13
R074
S841W
S841E
OR02
S840
S819
P8
R078
S503
R115
R081
R062
R087
P17
P09
R008
OR05
OR03
R086
OR06
R045
R109
P5
OR01
R051
OR04
P06
P07
R041
R077
R076



2012 Permanent Traffic Recorder Data Collection Sites

0 7 14 Kilometers

0 8 16 Miles

N

Legend

- Ferry Terminal
- Seattle (NWR)
- 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