

# **The North/West Passage Pooled Fund Program**

**A MULTI-AGENCY ITS COLLABORATIVE EFFORT**



## **Corridor-Wide Traveler Information Website**

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State ITS Operations Engineer



**Washington State  
Department of Transportation**

# WHAT IS A POOLED FUND PROGRAM?

The Transportation Pooled Fund (TPF) Program allows federal, state, and local agencies and other organizations to combine resources to support transportation needs.

A federal, state, regional, or local transportation agency may initiate pooled fund studies. Private companies, foundations, and colleges/universities may partner with any or all of the sponsoring agencies to conduct pooled fund projects.

Approved by FHWA

*[www.pooledfund.org](http://www.pooledfund.org)*

# PROGRAM BACKGROUND

North/West Passage was established as a FHWA Pooled Fund Study in 2003

Eight State DOT Members along I-90 and I-94 (Washington to Wisconsin)

Implemented Four Work Plans

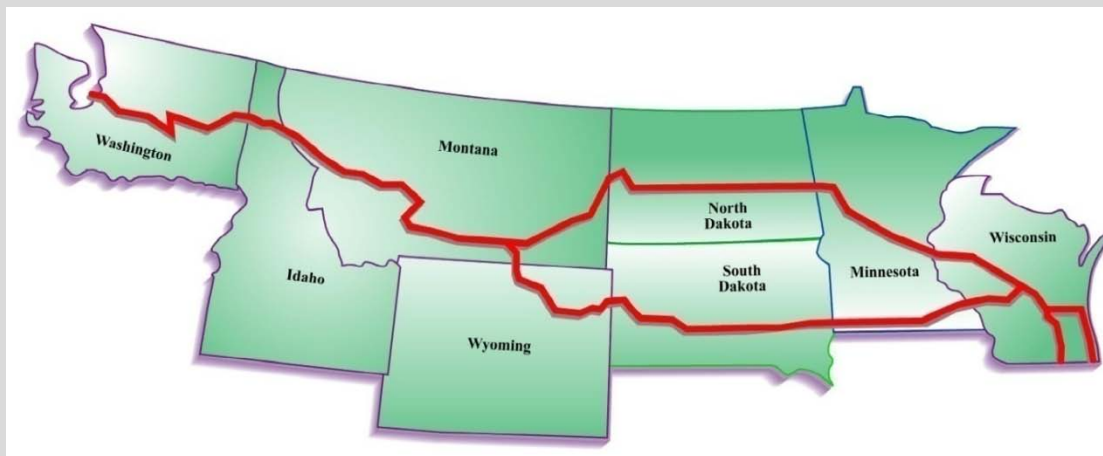
Successfully completed 18 projects guided by the programs developed Strategic Plan



Moving forward with Work Plan 5

6 projects

The vision of the North/West Passage Corridor is to focus on developing effective methods for sharing, coordinating, and integrating traveler information and operational activities across state and provincial borders.



[www.nwpassage.info](http://www.nwpassage.info)

# PROGRAM HIGHLIGHTS

## Two Workshops

- CAD to Reporting System
- Cross Border O&M Collaboration

## Four Concepts of Operations

- DMS Deployment at the ND/MN Border
- Clarus
- Center-to-Center
- Providing Traveler Information at the Tomah Split in WI



## A RFP Created for two states

- Anti-Icing Systems over the Red River Bridge between MN and ND

## Commercial Vehicle Focus

- Regional Permitting

# MORE PROGRAM HIGHLIGHTS

## Traveler Information Successes

- Integrate Reporting Systems (ND and SD travelers can select to receive MN 511)
- Trial Condition Reporting System in WI
- Corridor-Wide Consistent Major Event Descriptions
- Lessons Learned Document Comparing Reporting Systems
- Call Forwarding and Evaluation of Cross Border Information
- Traveler Information Dissemination to CVO

## NWP Brochure and 511 Brochure

## Two Websites

- Program Information
- Corridor Wide Traveler Information



## Coordinated Corridor Travel Information Issues

- Inconsistent data descriptions and formatting from state to state
- Lack of consistent and adequate real-time information that would enhance cross corridor travel
- Inconsistent and unreliable information for commercial vehicle travelers

## Users

- Recreational Travelers
- Commercial Vehicle Travelers

*[www.i90i94travelinfo.com](http://www.i90i94travelinfo.com)*

## Project Goals

- Low-cost website
- Introduce the I-90/I-94 corridor-wide concept
- Assess the usage of the website
- Provide a core system that could be enhanced
- To serve as an outreach and communication outlet





## Systems Engineering Process

- Concept of Operations
- High level requirements
- Preliminary Design Document

*These documents presented the expected impacts, roles, responsibilities and expectations of the website from the view of the users (i.e. travelers and service providers), the state agencies, and the systems that operate the website.*

## Open Source

- Competitive Bids for Future Enhancements
- Freedom to modify the code (e.g. state, contractor)

## Hosting

- Account contact - Member Agency
- Third Party Contractor - hosts and administers the site



## Phase 1 - Complete

- RFP Process – North Dakota State University Selected
- Project Cost: \$30,000

## Phase 2 - In Process

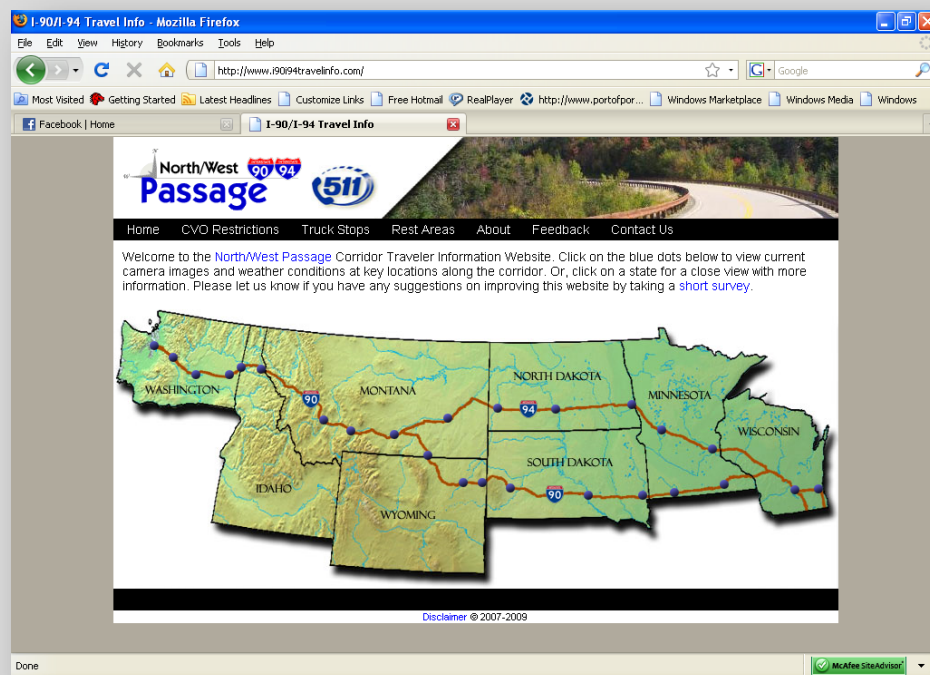
- RFP Process – Logic Tree and Open Roads Team Selected
- Project Cost: \$50,000



## 1<sup>st</sup> Generation Web Site

— Basic Corridor-wide Links to

- Cameras and Weather Conditions
- Individual state's ATIS sites
- Rest Areas
- CVO Restrictions
- Truck Stops



# P1 – CAMERAS & WEATHER


**I-90/I-94 Travel Info - Mozilla Firefox**

File Edit View History Bookmarks Tools Help

http://www.i90i94travelinfo.com/


Most Visited Getting Started Latest Headlines Customize Links Free Hotmail RealPlayer http://www.portofpor... Windows Marketplace Windows Media Windows

Facebook | Home I-90/I-94 Travel Info

**North/West Passage** 

Home CVO Restrictions Truck Stops Rest Areas About Feedback Contact Us

Welcome to the **North/West Passage** Corridor Traveler Information Web. We provide live camera images and weather conditions at key locations along the corridor. Please let us know if you have any suggestions on improving this information.



WASHINGTON MONTANA IDAHO WYOMING

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Done

## Live Cameras for Warden, Washington

I-90 at Warden Interchange:



**Your National Weather Service forecast**

**Warden WA**

Enter Your "City, ST" or zip code  Go   

NWS Spokane, WA **Mobile Weather Information | En Español**

Point Forecast: Warden WA  
46.96°N 119.05°W (Elev. 1371 ft)  
Forecast Valid: 9am PDT Jul 26, 2010-6pm PDT Aug 1, 2010

**Forecast at a Glance**

Today	Tonight	Tuesday	Tuesday Night	Wednesday	Wednesday Night	Thursday	Thursday Night	Friday
								
Hot	Mostly Clear	Hot	Partly Cloudy	Mostly Sunny	Partly Cloudy	Hot	Mostly Clear	Sunny
Hi 98 °F Lo 60 °F		Hi 96 °F Lo 60 °F		Hi 95 °F Lo 60 °F		Hi 96 °F Lo 57 °F		Hi 93 °F

**Detailed 7-day Forecast** **Detailed Point Forecast** [\[Move Down\]](#)

Today: Sunny and hot, with a high near 98. West wind between 3 and 9 mph.

Click Map for Forecast [Disclaimer](#)



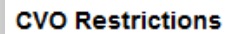


[Home](#) [CVO Restrictions](#) [Truck Stops](#) [Rest Areas](#) [About](#) [Feedback](#) [Contact Us](#)

## Rest Areas

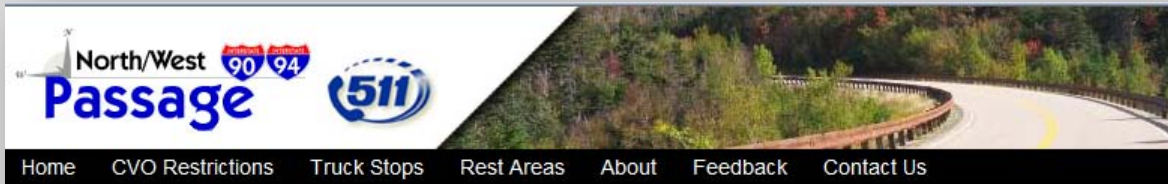
Click on a red dot to see more information about that rest area.





Idaho	Statewide Restrictions Map and Location of Runaway Truck Ramps
Minnesota	Statewide Restrictions Map
Montana	Statewide Load Restriction Report
North Dakota	Load Restriction Information
South Dakota	Truck Information One-Stop Shop
Washington	Road Restrictions for Oversize/Overweight Motor Vehicles
Wisconsin	Weight Restriction Program
Wyoming	Construction Report

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## Truck Stops

Click on a state to go to truck stop information for that state.



Truck Stop Info Plus - Select a Truck Stop - Windows Internet Explorer

http://www.truckstopinfoplus.com/show\_list.asp?state=South Dakota

Truck Stop Info Plus - Select a Truck Stop

Truck Stop Info Plus

home advertise with us Send us a truck stop Send an update Contact us

[Truckstop Design](#)  
Award winning firm for 20+ years  
Talk to an Architect for free!  
www.mrpdesign.com

[Flying J Truck Stops](#)  
Search multiple engines for flying j  
truck stops  
www.webcrawler.com

[Pilot Travel Centers Lic](#)  
Products and info about Pilot Travel  
Centers Lic  
Search Yahoo.com

Ads by Google

South Dakota - [click here for map](#)

Click on a City name below for a list of truck stop!

🟢 = open 24 hours | 🔴 = not open 24 hours  
Letter or number denotes truck parking lot size

City	Zip	Truck Stop	Fuel	Location	24 Hour?
<a href="#">ABERDEEN</a>	57401	Starlite Truck Stop (Shell)	Shell	US 12 W & US 281	🟢 M
<a href="#">AGAR</a>	57520	Eric's Amoco	Amoco	17597 US 83	🔴 S
<a href="#">BELLE FOURCHE</a>	57717	Mid America Travel Plaza (CoNoco)	Conoco	US 85 N & US 212 W	🟢 M
<a href="#">BELLE FOURCHE</a>	57717	Big D Oil Co	Sinclair	US 85 S & Hwy 34	🔴 S
<a href="#">BERESFORD</a>	57004	Truck Towne (Cenex)	Cenex	1-29 Exit 47 (SD 46 W)	🟢 M
<a href="#">BERESFORD</a>	57004	Jet Truck Plaza (Sinclair)	Sinclair	1-29 Exit 47 ( 1/4 Mile E on SD 46 )	🔴 S
<a href="#">BLUNT</a>	57522	Kroeplinag Center (Sinclair)	Sinclair	19865 US 83 & US 14 W	🔴 S
<a href="#">BRANDON</a>	57005	Coffee Cup Fuel Stop No 7 (BP)	bp	1-90 Exit 406	🟢
<a href="#">BRISTOL</a>	57219	Dale's Service		US 12 W	🔴 M
<a href="#">BROOKINGS</a>	57006	Kum & Go N.623 (Cenex)	Cenex	1-29 Exit 132 (US 14 E)	🟢
<a href="#">CHAMBERLAIN</a>	57325	Vet's Whoa & Go (CoNco)	Conoco	1-90 Exit 265	🟢 M
<a href="#">COLMAN</a>	57017	Prairie Junction Truck Stop (BP)	bp	1-29 Exit 109 (SD 34 W)	🔴 M
<a href="#">COLMAN</a>	57017	Crossroads Truck Stop (Shell)	Shell	1-29 Exit 109 (SD 34 )	🔴 M
<a href="#">EDGEMONT</a>	57735	Fresh Start Convenience Store (CoNco)	Conoco	US 18 & SD 471	🔴 S
<a href="#">ELKTON</a>	57026	Skiewview Junction (BP)	bp	21505 SD 13 & US 14	🔴 M
<a href="#">GREGORY</a>	57533	Mr G's Truck Stop (Shell)	Shell	US 18 & s Main St	🔴



## Justification for Phase II

- Better than Expected Usage:  
5,000 – 10,000 visitors/month
- Positive Comments From Users

## 2<sup>nd</sup> Generation Web Site

- Followed the Systems Engineering Process
  - Concept of Operations
  - Requirements & Design Recommendations
- New Features
  - Acquire active event reports posted by member agencies
  - Display active events on I-90 and I-94 within the corridor



9... I-90/I-94 Travel Info

CH Search Total Protection Page Status Identity Guard

North/West Passage 511

Home CVO Restrictions Truck Stops Rest Areas About Feedback Contact Us

Welcome to the North/West Passage Corridor Traveler Information Website. Click on the blue dots below to view current camera images and weather conditions at key locations along the corridor. Or, click on a state for a close view with more information. Please let us know if you have any suggestions on improving this website by taking a [short survey](#).

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http://169.130.94.125:8084/nwsp/

View Favorites Tools Help

Usage Statistics for www.9... I-90/I-94 Travel Info

explore with YAHOO! SEARCH Search Total Protection Page Status Identity Guard

North/West

Washington Traffic Events

Event Type	Route	Start Point	End Point	Description	Updated
Construction	I-90 B	54.0	58.0	Interstate 90 Snoqualmie Pass, Milepost 54 to 58 - Speed limit is 55 MPH in the work zone. Weekly expect lane restrictions in both directions. Rolling slowdowns will be used during the day. Loads over 12 feet wide are prohibited from 9 p.m. to 9 a.m. Monday night through Saturday morning. I-90 is closed to bicycles between the Hyak Interchange (Exit 54) and Stampede Pass interchange (exit 62).	7/23/10 8:50 AM PDT
Construction	I-90 B	182.0	192.0	On Interstate 90 between Moses Lake and the Adams County Line Monday through Thursday nights, expect lane shifts where crews are applying permanent pavement markings.	7/22/10 4:40 PM PDT
Lane Closure	I-90 W	40.0		Westbound I-90 near milepost 40, WSDOT crews have closed the two left lanes for pavement making operations. The speed limit has been reduced to 55 MPH in the work zone.	7/26/10 11:20 AM PDT
Lane Closure	I-90 W	63.0		WSDOT crews have closed the right lane at milepost 63 for roadway work.	7/26/10 10:18 AM PDT
Lane Closure	I-90 W	119.0	117.0	Lane Closure on I-90 at milepost 119 west bound	7/26/10 7:45 AM PDT
Construction	I-90 W	42.0	39.0	Snoqualmie Pass - Through Friday, during daylight hours, drivers may experience delays associated with westbound left lane closures near the Tinkham Road interchange as contractors install guardrail.	7/25/10 12:42 AM PDT
Construction	I-90 W	83.0		Near Cle Elum Mileposts 82 to 83 - No significant traffic impacts anticipated this week.	7/25/10 12:41 AM PDT
Construction	I-90 W	7.13	6.7	Monday, July 26 - the morning of Thursday, July 29 - Up to two lanes on westbound I-90 from Island Crest Way to 76th Avenue SE will close 9 p.m. to 5 a.m. to place conduit on the bridge crossing.	7/23/10 10:25 AM PDT
Construction	I-90 W	7.13		Monday, July 26 - the morning of Thursday, July 29 - The on-ramp from Island Crest Way to westbound I-90 will close from 10 p.m. to 5 a.m. to place conduit on the bridge crossing.	7/23/10 10:27 AM PDT
Construction	I-90 W	6.03	4.22	Monday, July 26 - the morning of Friday, July 30 - A single lane on westbound I-90 from the west end of the Mercer Island I-90 to east of the Mount Baker Tunnel will close nightly from 9 p.m. to 5 a.m. to install concrete	7/23/10 10:29 AM PDT

Close

*The site has been operational through 1 winter season and saw 5,000 – 10,000 user sessions per month.*

- “This website is a model for what other areas should be doing.”
- “Traveling these roads are definitely made safer with this website.”
- “I was pleased to find this linked to my home state (Idaho) DOT. What a fantastic concept, I hope to see it spread...coast to coast, border to border!”
- “I work with a road service company & happened on this website. It will go on our intranet as a favorite/helpful to advise people who are traveling”
- “I think this is a great site - While I could most likely find all this information elsewhere, it is great to have the cameras, weather reports and road conditions all accessible from one site.”

- Identifying and adhering to each state's website policies
- The importance of an outreach plan
- Creating an easily searchable domain name
- Identifying the format of each state's data feed
- Consistency in Data Available from each state's data feed: (Location, Event Description, Impacts, Duration)
- Maintaining the website while individual sites data feeds periodically change







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