

Real-time Weather and Road Condition Information for Traveler Information and Maintenance Management

Ed Boselly

Washington State Department of Transportation



ROAD TEMPERATURES

TRAFFIC & CAMERAS

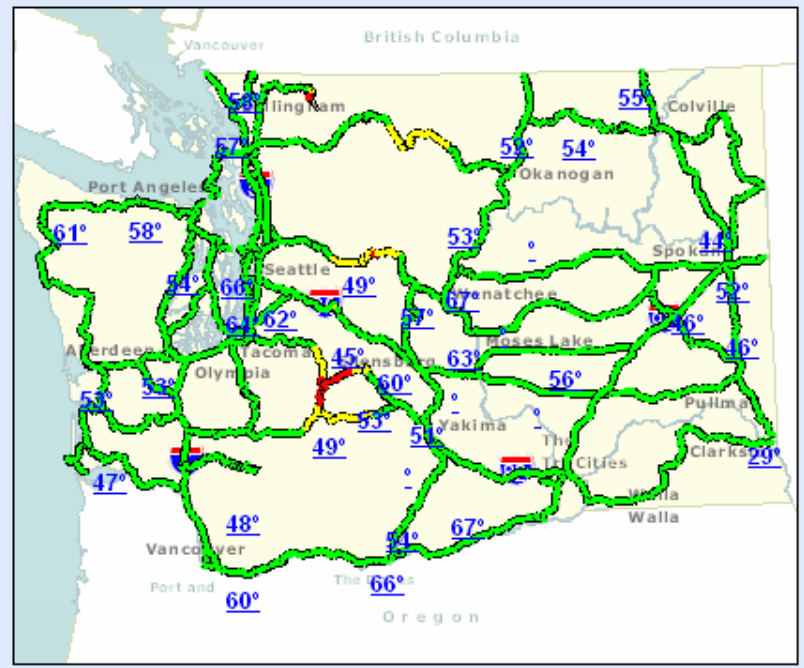
- [State View \(home\)](#)
- [Seattle Area](#)
- [Ferry Cameras](#)
- [Tacoma](#)
- [Olympia](#)
- [Vancouver](#)
- [Mount Vernon](#)
- [Bellingham](#)
- [Canadian Border](#)
- [Spokane](#)
- [Wenatchee](#)

STATE TRAVEL INFO

- [Travel Alerts & Slowdowns](#)
- [Mountain Passes](#)
- [Weather](#)
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- [Winter Driving Tips](#)
- [Safety Rest Areas](#)
- [State Highway Map](#)
- [Interstate Exits](#)
- [Featured Services](#)

ADDITIONAL INFO

- [Bordering State Travel](#)
- [Driver & Vehicle Licensing](#)
- [Washington State Tourism](#)
- [Contact Us](#)



Road Conditions

- █ Above 38 F
- █ 33 F to 38 F
- █ 32 F and below
- █ No data

[Check the Weather](#)
[Check for Travel Alerts & Slowdowns](#)
[Check the Mountain Passes](#)

More Weather Info

- [Weather Stations](#)
- [Forecasts](#)
- [Road Temperatures](#)

Snoqualmie Info

Restrictions Eastbound:
No restrictions

Restrictions Westbound:
No restrictions

Conditions and Weather:
Bare and wet

[more Information](#)

Stevens Info

Restrictions Eastbound:
No restrictions

Restrictions Westbound:
No restrictions

Conditions and Weather:
Slush in places on roadway

[more Information](#)

US-2 Travel Information

University of Washington
Washington State
Department of Transportation

Click on small image to view larger image to the right



Everett



Stevens Pass



Wenatchee

Forecast Conditions

The forecast conditions shown below are based on the output of a sophisticated computer weather forecasting system. The forecasts shown in the graphic have not been interpreted or evaluated by a human forecaster.

National Weather Service forecasts are based on the expert evaluation by experienced forecasters of both observations and computer

- Current Conditions
- Forecast Conditions

REV FWD

Select forecast hour

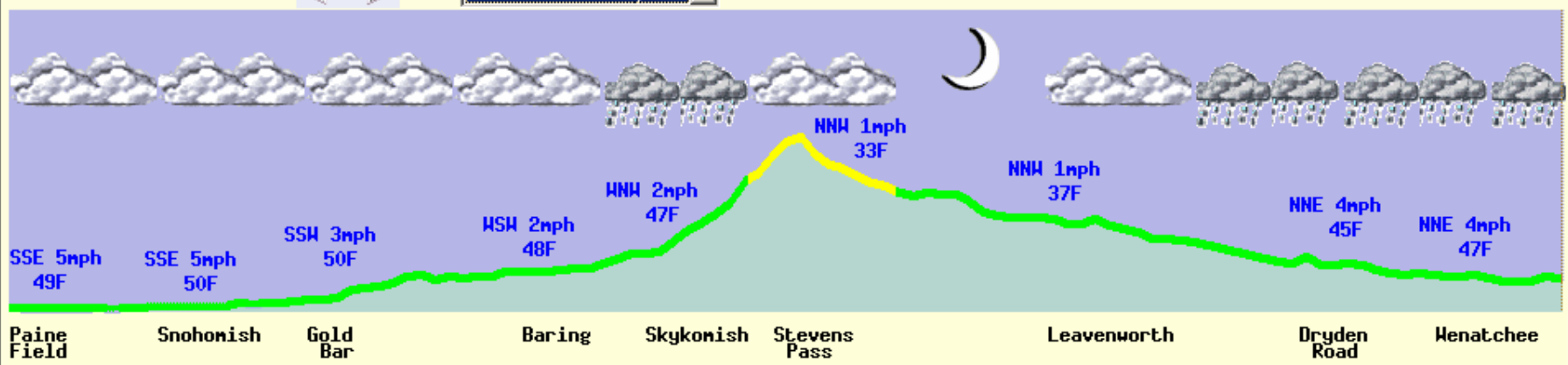
5:00 AM Wed May 12

ROAD TEMPERATURE

32° & below 33° - 38° over 38° no data

BLUE TEXT = AIR°

[Snow Depth](#) [NWAC Mountain Forecast](#)







WORTHEND
TRUCK
Equipment, Inc.
Marysville, WA.

6613-38

6613-38

▲ DANGER
DO NOT
OPERATE
WITH
HYDRAULIC
FLUID
LEAKING







INTERNATIONAL

ROADWAY GRIP

HIGH MEDIUM LOW

DISPLAY BRIGHTNESS

WHEEL SIDE FORCE

MENU

SYSTEM RESET

REMOTE DATA

Holiday Technologies
www.holidaytech.com

LOCKEY

OPERATE

To operate this system, the operator must wear the seat belt and use the controls in the operator's seat. The operator must also read the operator's manual before operating the system.

Color	1	2	3	4	5	6	7	8	9	10	11	12
Blue												
Orange												
Green												
Yellow												
Red												
Purple												
Grey												
White												



ROADWAY GRIP

HIGH MEDIUM LOW

DISPLAY BRIGHTNESS WHEEL SIDE FORCE MENU

SYSTEM RESET REMOTE DATA OFF

Halliday Technologies
from on-track to roadway



DICKEY JOHN

Control Point™



TALISMAN

SANDER







[Control Point](#)
[LT Control](#)
[ICS2000](#)
[ICS1100](#)

[Distributors](#)



[Application Rate Sensor](#)



[Pulse Width Modulated Valve Driver](#)



[Hopper Level Sensor](#)



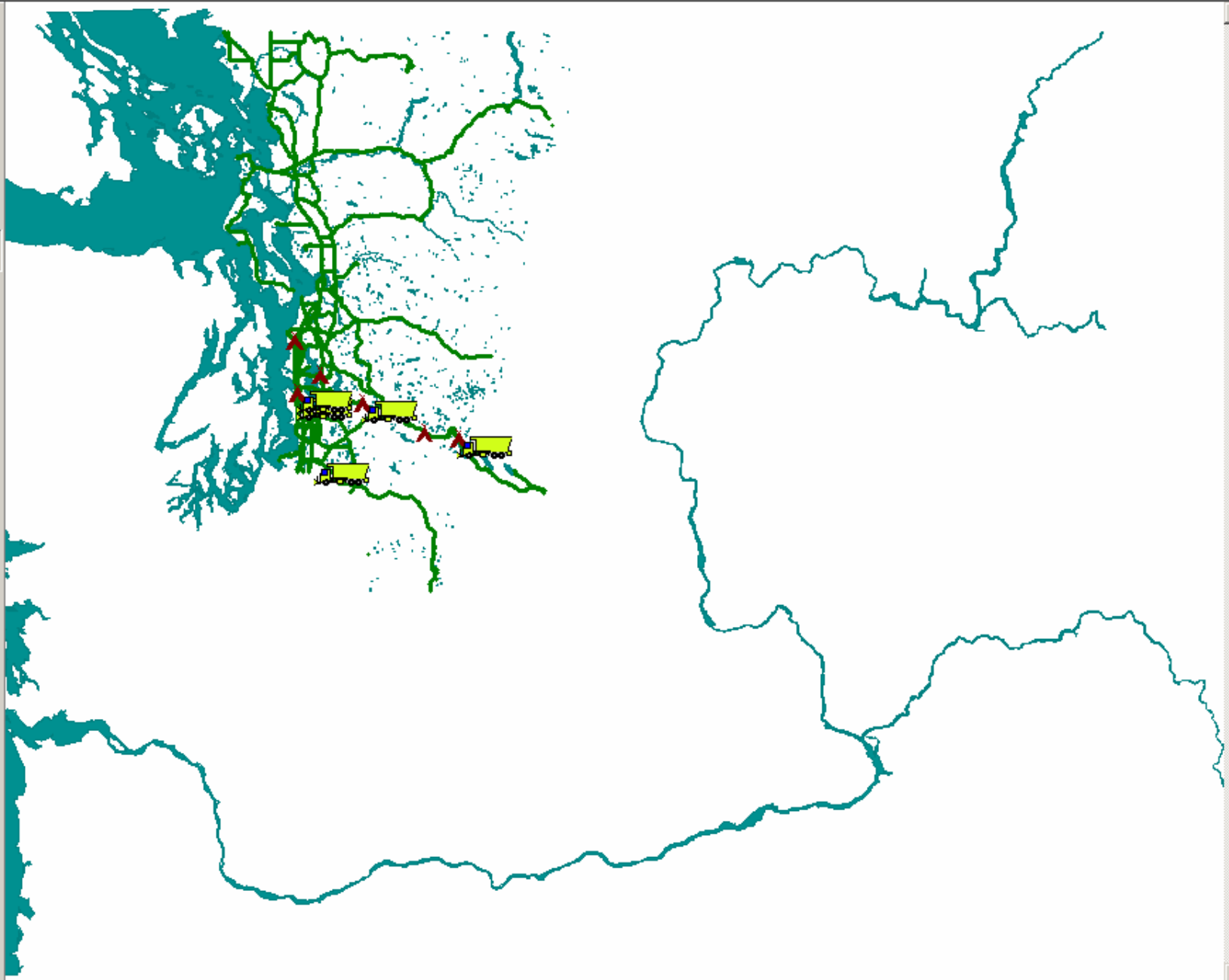
[SFCC15 Cartridges](#)



[Hydraulic Valve](#)

NAME	ADDRESS	LATITUDE	LONGITUDE	VELOCITY	DIRECTION	DATE	INPUT_E	INPUT_G	RATE1	RATE2	RATE3	RATE4	RATE5	RATE6	RATE7
NAME	networkID	lat	long	mph	degrees	<i>reformat to show</i>	plow/up do	Pause	dry rate	wet rate	Road temp	Air temp	dry type	wet type	Friction
6E13-27	4816761	47.4239	-121.4103	32	334	9:16:58 AM	FALSE	FALSE	214	0	29	35	1	1	8
6E13-27	4816761	47.4251	-121.4115	30	319	9:17:09 AM	FALSE	FALSE	192	0	28	34	1	1	8
6E13-27	4816761	47.426	-121.413	31	305	9:17:20 AM	FALSE	FALSE	210	0	28	34	1	1	8
6E13-27	4816761	47.4268	-121.4149	32	301	9:17:31 AM	FALSE	FALSE	206	0	27	34	1	1	9
6E13-27	4816761	47.4274	-121.4298	31	232	9:18:59 AM	FALSE	FALSE	194	0	27	32	1	1	8
6E13-27	4816761	47.4266	-121.4314	30	232	9:19:10 AM	FALSE	FALSE	204	0	27	32	1	1	9
6E13-27	4816761	47.4257	-121.4331	31	233	9:19:21 AM	FALSE	FALSE	200	0	28	32	1	1	8
6E13-27	4816761	47.4249	-121.4347	30	232	9:19:32 AM	FALSE	FALSE	216	0	28	32	1	1	44
6E13-27	4816761	47.424	-121.4363	31	231	9:19:43 AM	FALSE	FALSE	198	0	28	32	1	1	44
6E13-27	4816761	47.4232	-121.4379	31	232	9:19:54 AM	FALSE	FALSE	224	0	29	32	1	1	43
6E13-27	4816761	47.4223	-121.4396	32	232	9:20:05 AM	FALSE	FALSE	192	0	28	32	1	1	44
6E13-27	4816761	47.4214	-121.4413	31	232	9:20:16 AM	FALSE	FALSE	212	0	28	32	1	1	42
6E13-27	4816761	47.4205	-121.443	32	227	9:20:27 AM	FALSE	FALSE	209	0	28	33	1	1	36
6E13-27	4816761	47.4193	-121.4444	35	211	9:20:38 AM	FALSE	FALSE	193	0	29	32	1	1	46
6E13-27	4816761	47.4179	-121.4452	32	196	9:20:49 AM	FALSE	FALSE	207	0	28	32	1	1	42
6E13-27	4816761	47.4165	-121.4456	31	193	9:21:00 AM	FALSE	FALSE	212	0	30	32	1	1	48
6E13-27	4816761	47.415	-121.446	34	189	9:21:11 AM	FALSE	FALSE	197	0	30	32	1	1	48
6E13-27	4816761	47.4134	-121.4463	34	188	9:21:22 AM	FALSE	FALSE	201	0	30	32	1	1	46
6E13-27	4816761	47.412	-121.4467	32	187	9:21:33 AM	FALSE	FALSE	206	0	30	32	1	1	47
6E13-27	4816761	47.4106	-121.447	30	186	9:21:44 AM	FALSE	FALSE	179	0	29	32	1	1	47
6E13-27	4816761	47.4092	-121.4469	30	171	9:21:55 AM	FALSE	FALSE	210	0	30	32	1	1	46
6E13-27	4816761	47.4079	-121.4465	30	167	9:22:06 AM	FALSE	FALSE	194	0	30	33	1	1	47
6E13-27	4816761	47.4065	-121.4461	29	169	9:22:17 AM	FALSE	FALSE	216	0	30	32	1	1	42
6E13-27	4816761	47.4051	-121.4462	31	185	9:22:28 AM	FALSE	FALSE	205	0	30	32	1	1	37
6E13-27	4816761	47.4038	-121.4468	31	206	9:22:39 AM	FALSE	FALSE	195	0	30	33	1	1	40
6E13-27	4816761	47.4026	-121.4481	33	223	9:22:50 AM	FALSE	FALSE	203	0	30	33	1	1	40
6E13-27	4816761	47.4018	-121.4499	33	241	9:23:01 AM	FALSE	FALSE	192	0	30	34	1	1	38
6E13-27	4816761	47.4013	-121.452	33	254	9:23:12 AM	FALSE	FALSE	192	0	30	34	1	1	42
6E13-27	4816761	47.4009	-121.4542	32	255	9:23:23 AM	FALSE	FALSE	227	0	30	34	1	1	44
6E13-27	4816761	47.4005	-121.4563	35	254	9:23:34 AM	FALSE	FALSE	207	0	30	34	1	1	42
6E13-27	4816761	47.4	-121.4586	35	253	9:23:45 AM	FALSE	FALSE	205	0	30	34	1	1	46
6E13-27	4816761	47.3994	-121.4608	36	246	9:23:56 AM	FALSE	FALSE	191	0	30	34	1	1	45
6E13-27	4816761	47.3988	-121.4629	36	244	9:24:07 AM	FALSE	FALSE	183	0	30	34	1	1	46
6E13-27	4816761	47.3981	-121.465	34	244	9:24:18 AM	FALSE	FALSE	200	0	30	34	1	1	44

- Menu Hide
- Arrows
 - ZoomIn
 - ZoomOut
 - DZoom
 - Centre
 - AVL
 - Maps
 - Tracks
 - Hide
 - Data
 - SpGraph
 - Query*
 - WSDOT Salt
 - Landmarks
 - Reports*

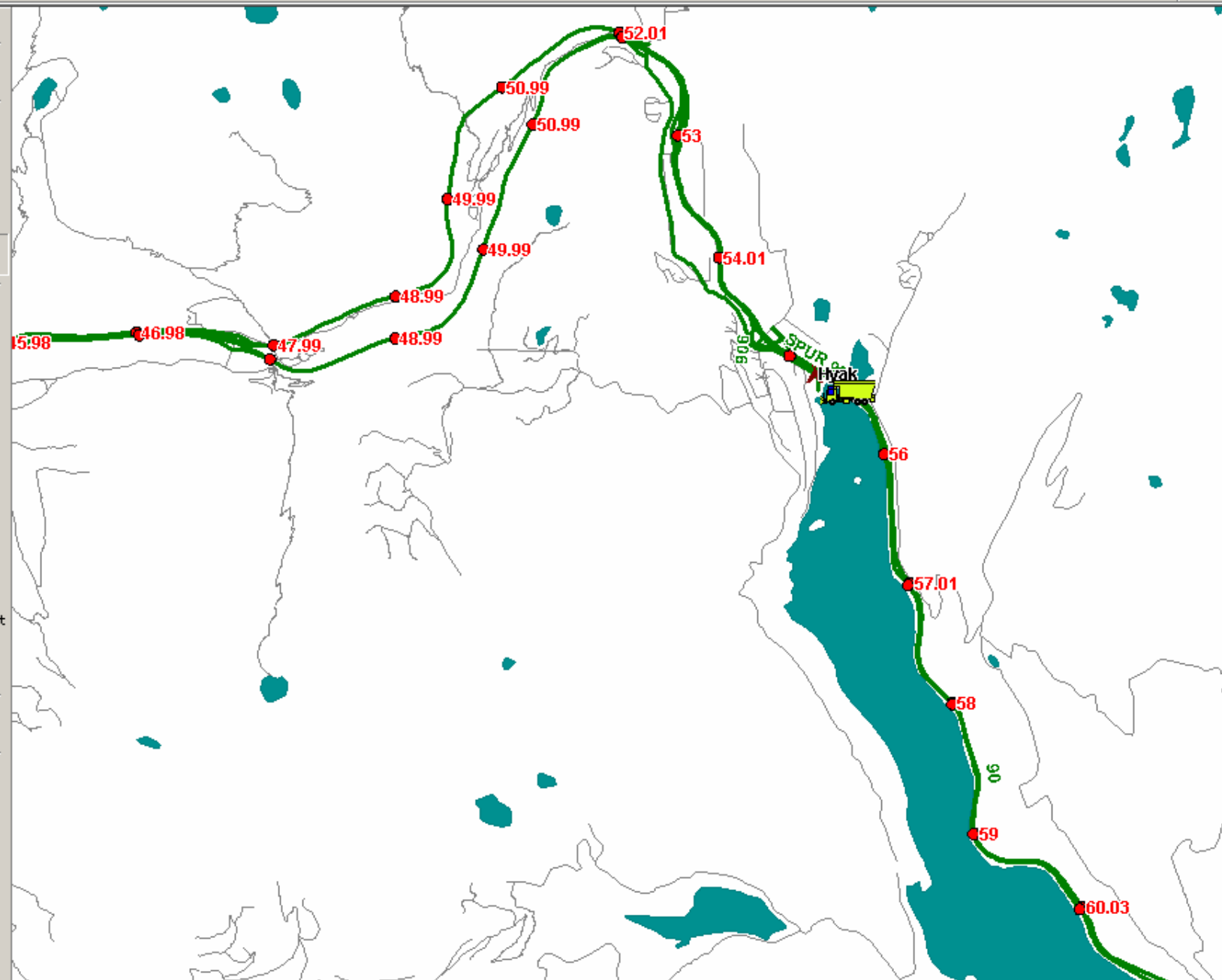


The map displays a network of roads in a region with several large teal-colored lakes. A yellow truck icon is positioned on a road labeled 'SPUR'. Other roads shown include STATE HWY 908, SAN MORITZ, ST MORITZ, IRON HORSE, KENDALL, SNOQUALMIE LOOP, INSBRUCK, SNOQUALMIE, HYAK, CHARLONIX, MINWAUKEE, LAKE MARDEE, GOLDEN CREEK, FIR, NFD 114, NFD 9080, NFD 144, NFD 2219, NFD 4832, and HYAK. A red dot labeled '56' is located on a road near the bottom right. The map is overlaid with a green grid.

- Menu Hide
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Office

- Menu Hide
- Arrows
- ZoomIn
- ZoomOut
- DZoom
- Centre
- AVL
- Maps
- Tracks
- Hide
- Data
- SpGraph
- Query*
- WSDOT Salt
- Landmarks
- Reports*



Tracks Menu

Data Browser Menu

Data Browser

Reverse Stop Forward

Set Rate

05-01-07 14:21:23

Hide

Data

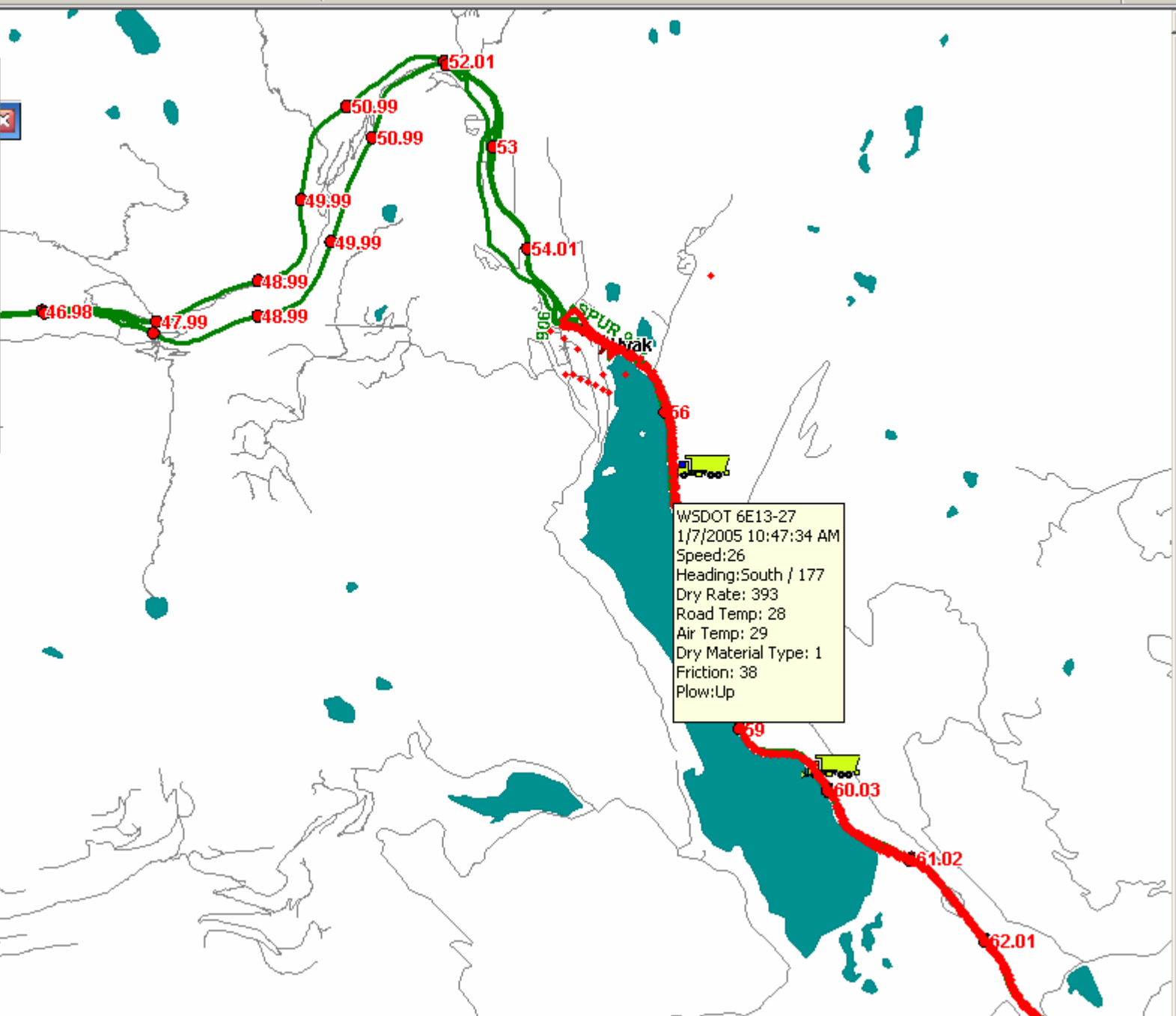
SpGraph

Query*

WSDOT Salt

Landmarks

Reports*



Road Condition Characterization Using RGT Output

RGT Output	Footprint Color
> 70	Free of Ice and Snow
56-70	Bare and Wet Slush in Places
41-55	Patches of Snow Or Ice
26-40	Slippery, Ice
11-25	Extremely Slippery

ROAD TEMPERATURES

TRAFFIC & CAMERAS

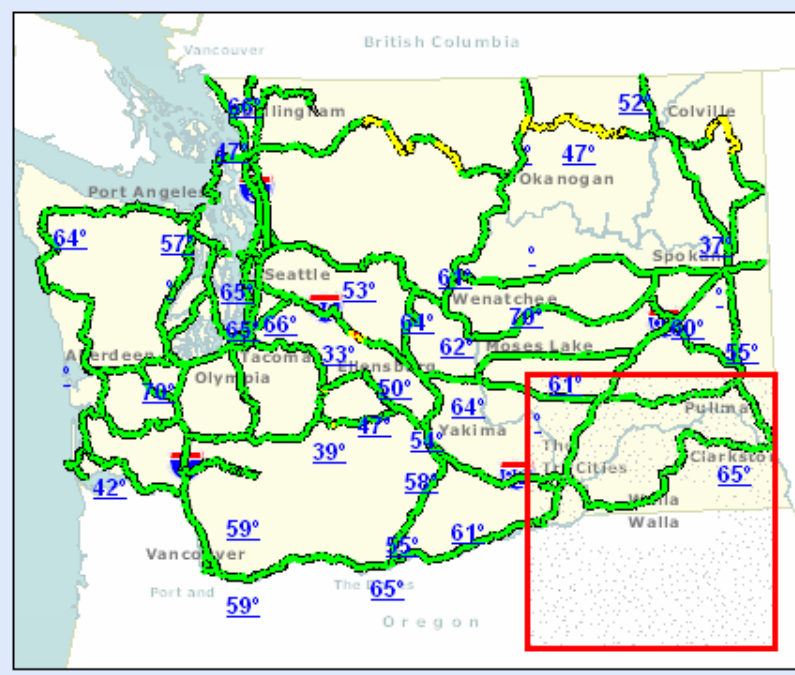
- [State View \(home\)](#)
- [Seattle Area](#)
- [Ferry Cameras](#)
- [Tacoma](#)
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- [State Highway Map](#)
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- [Driver & Vehicle Licensing](#)
- [Washington State Tourism](#)
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Road Conditions

- Above 38 F
- 33 F to 38 F
- 32 F and below
- No data

[Check the Weather](#)
[Check for Travel Alerts & Slowdowns](#)
[Check the Mountain Passes](#)

More Weather Info

- [Weather Stations](#)
- [Forecasts](#)
- [Road Temperatures](#)
- [Radar](#)
- [Satellite](#)

Snoqualmie Info

Restrictions Eastbound:
No restrictions

Restrictions Westbound:
No restrictions

Conditions and Weather:
Bare and dry

[more Information](#)

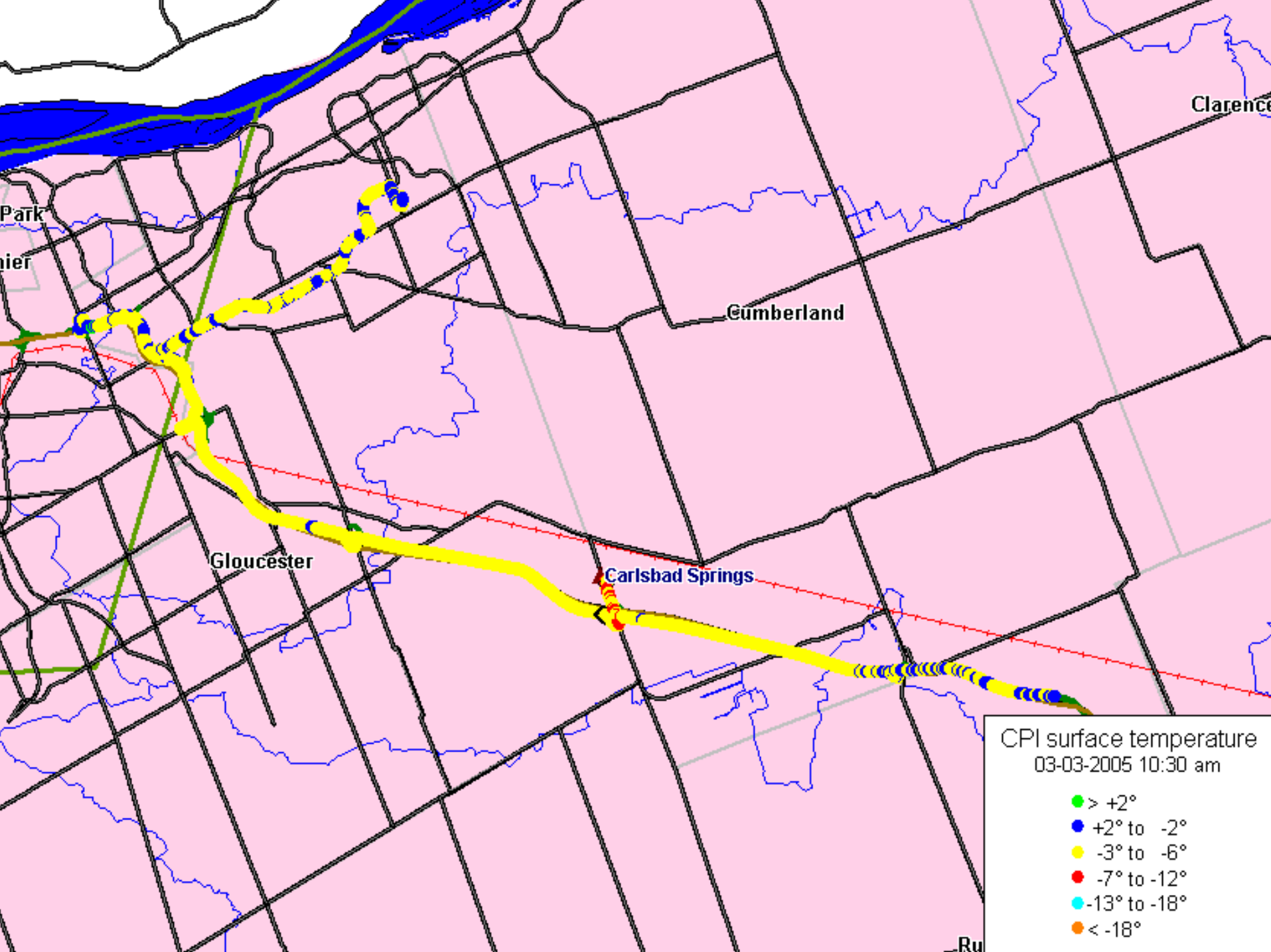
Stevens Info

Restrictions Eastbound:
No restrictions

Restrictions Westbound:
No restrictions

Conditions and Weather:
Bare with compact snow in places

[more Information](#)



GIS Interfleet Reporting Sytem - Version 1.1.6

Customer: washingtondot

Vehicle: WSDOT 6E13-27

Welcome to the Interfleet Reporting Sytem

How to Use the Interfleet Reporting Sytem

Reports

Activity Summary

Stops Report

Vehicle Status

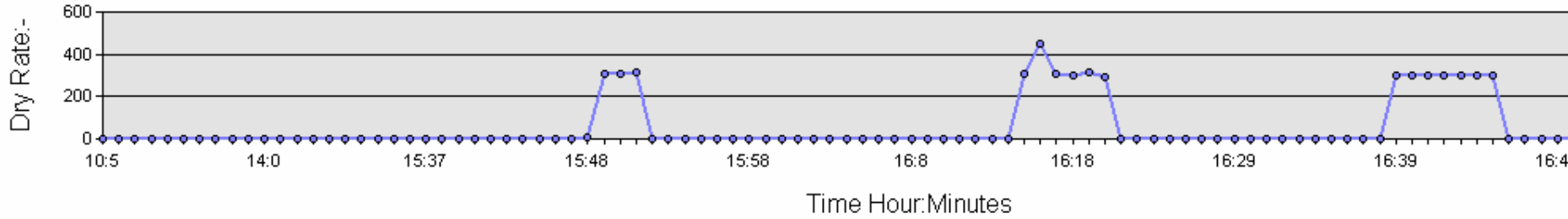
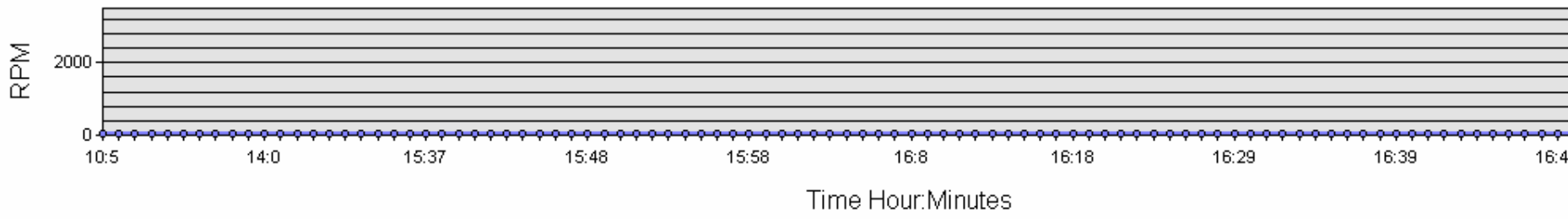
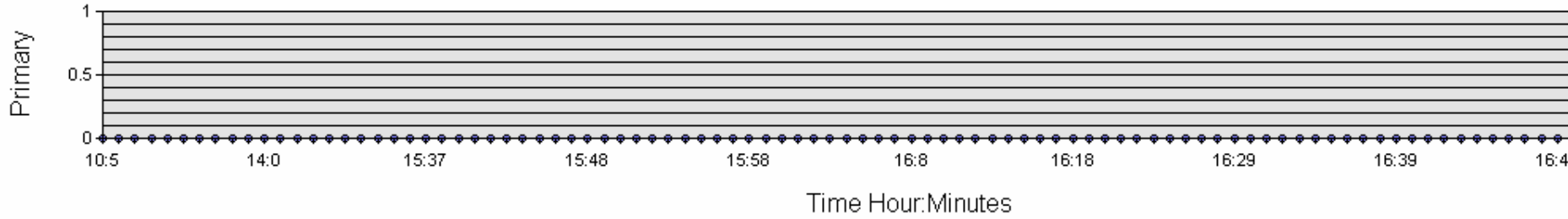
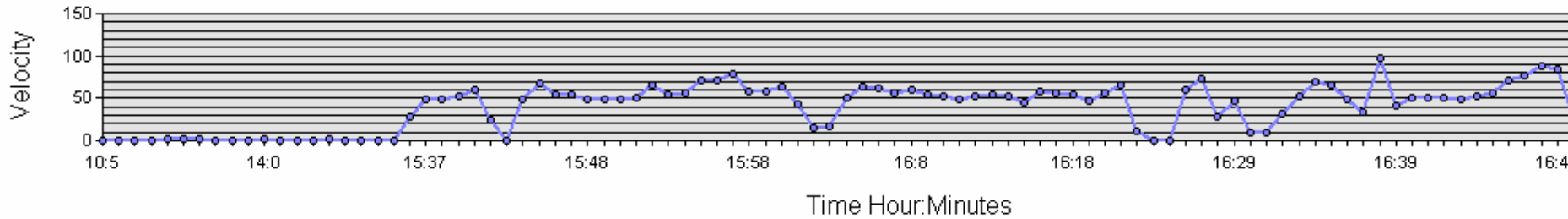
Operation Reports

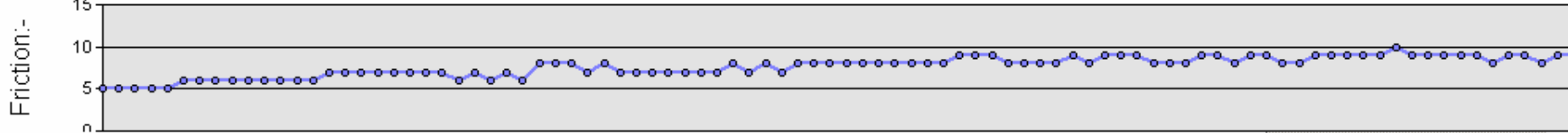
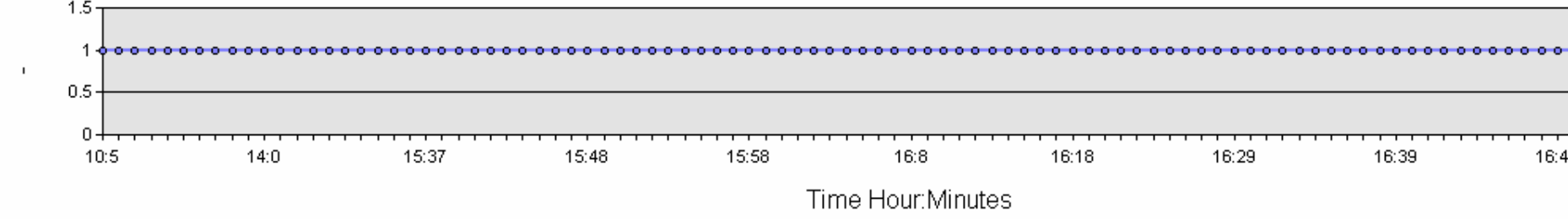
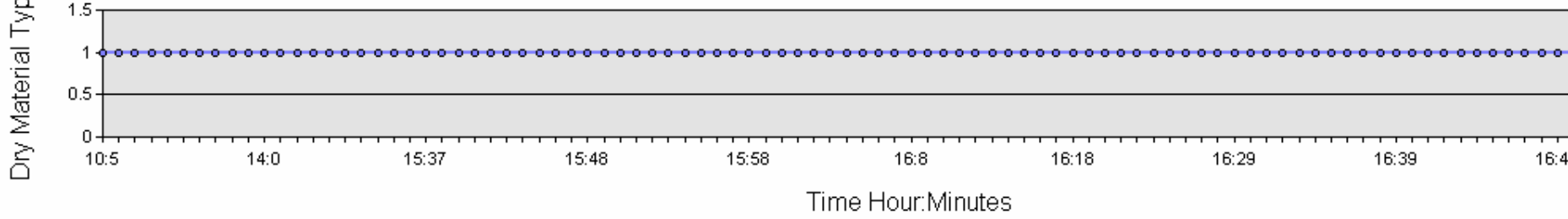
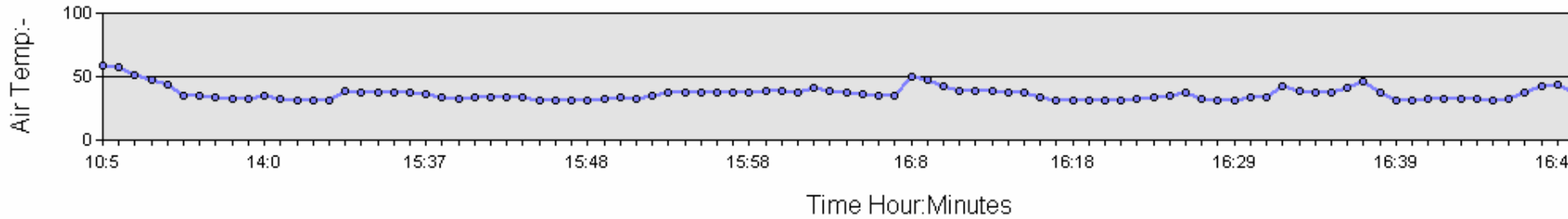
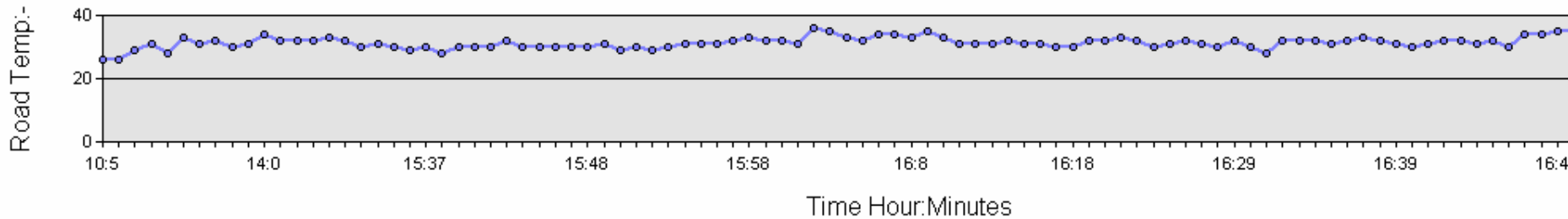
Winter Operation Report

Start time	Travel Time	Distance (Miles)	Stop Time	Stop Duration	Idle	Location
1/6/2005 7:56:15 AM	00:00:00	0.1	1/6/2005 7:56:15 AM	01:12:49	00:12:28	▲ Snoqualmie, , /
1/6/2005 9:09:04 AM	00:21:06	10.5	1/6/2005 9:30:10 AM	00:03:02	00:01:02	
1/6/2005 9:33:12 AM	00:22:52	10.8	1/6/2005 9:56:04 AM	00:28:20	00:04:00	▲ Snoqualmie, , /
1/6/2005 10:24:24 AM	00:01:49	1.1	1/6/2005 10:26:13 AM	00:02:16	00:00:16	
1/6/2005 10:28:29 AM	00:02:48	1.9	1/6/2005 10:31:17 AM	00:03:16	00:00:00	
1/6/2005 10:34:33 AM	00:01:05	0.6	1/6/2005 10:35:38 AM	00:02:06	00:00:00	
1/6/2005 10:37:44 AM	01:04:16	32.4	1/6/2005 11:42:00 AM	00:52:19	00:00:00	▲ Snoqualmie, , /
1/6/2005 12:34:19 PM	00:22:39	12.2	1/6/2005 12:56:58 PM	00:05:11	00:05:11	
1/6/2005 1:02:09 PM	01:01:39	29.7	1/6/2005 2:03:48 PM	00:23:17	00:07:19	
1/6/2005 2:27:05 PM	00:23:55	13.1	1/6/2005 2:51:00 PM	00:02:13	00:02:13	
1/6/2005 2:53:13 PM	01:10:21	31.1	1/6/2005 4:03:34 PM	00:09:16	00:07:16	
1/6/2005 4:12:50 PM	00:46:44	22.2	1/6/2005 4:59:34 PM	00:11:19	00:08:00	▲ Snoqualmie, , /
1/6/2005 5:10:53 PM	00:48:37	23.6	1/6/2005 5:59:30 PM	12:59:18	00:02:00	▲ Snoqualmie, , /
1/6/2005 6:58:48 AM	00:01:57	0.1	1/7/2005 7:00:45 AM	00:02:22	00:02:22	▲ Snoqualmie, , /
1/7/2005 7:03:07 AM	00:25:25	11.0	1/7/2005 7:28:32 AM	00:08:00	00:06:00	
1/7/2005 7:36:32 AM	01:22:00	36.4	1/7/2005 8:58:32 AM	00:06:53	00:06:53	
1/7/2005 9:05:25 AM	00:13:07	8.0	1/7/2005 9:18:32 AM	00:04:00	00:04:00	
1/7/2005 9:22:32 AM	00:05:17	1.9	1/7/2005 9:27:49 AM	00:33:29	00:00:00	▲ Snoqualmie, , /
1/7/2005 10:01:18 AM	01:19:34	37.7	1/7/2005 11:20:52 AM	00:02:13	00:00:00	
1/7/2005 11:23:05 AM	00:51:19	21.3	1/7/2005 12:14:24 PM	00:57:39	00:01:32	▲ Snoqualmie, , /
1/7/2005 1:12:03 PM	00:58:16	29.3	1/7/2005 2:10:19 PM	00:04:00	00:04:00	

Data Graph for Vehicle No: WSDOT 6E13-27 on 1/8/2005

Data Graphs for Vehicle No WSDOT 6E13-27 On 1/8/2005







SCAN Web

- ▶ Home
- ▶ Cameras

Maps

- ▶ Spokane Airport
- ▶ Wa Web

Summaries

- ▶ WA - Hyak - (WSDOT)
- ▶ WA - Olympic (WSDOT)
- ▶ WA - Seattle (WSDOT)
- ▶ WA - Spokane - (WSDOT)
- ▶ WA - Wenatchee - (WSDOT)
- ▶ WA - Yakima - (WSDOT)

Summary

- ▶ Sites
- ▶ Surface Sensors
 - ▶ Roadway
- ▶ Deck
- ▶ Cameras
- ▶ Traffic

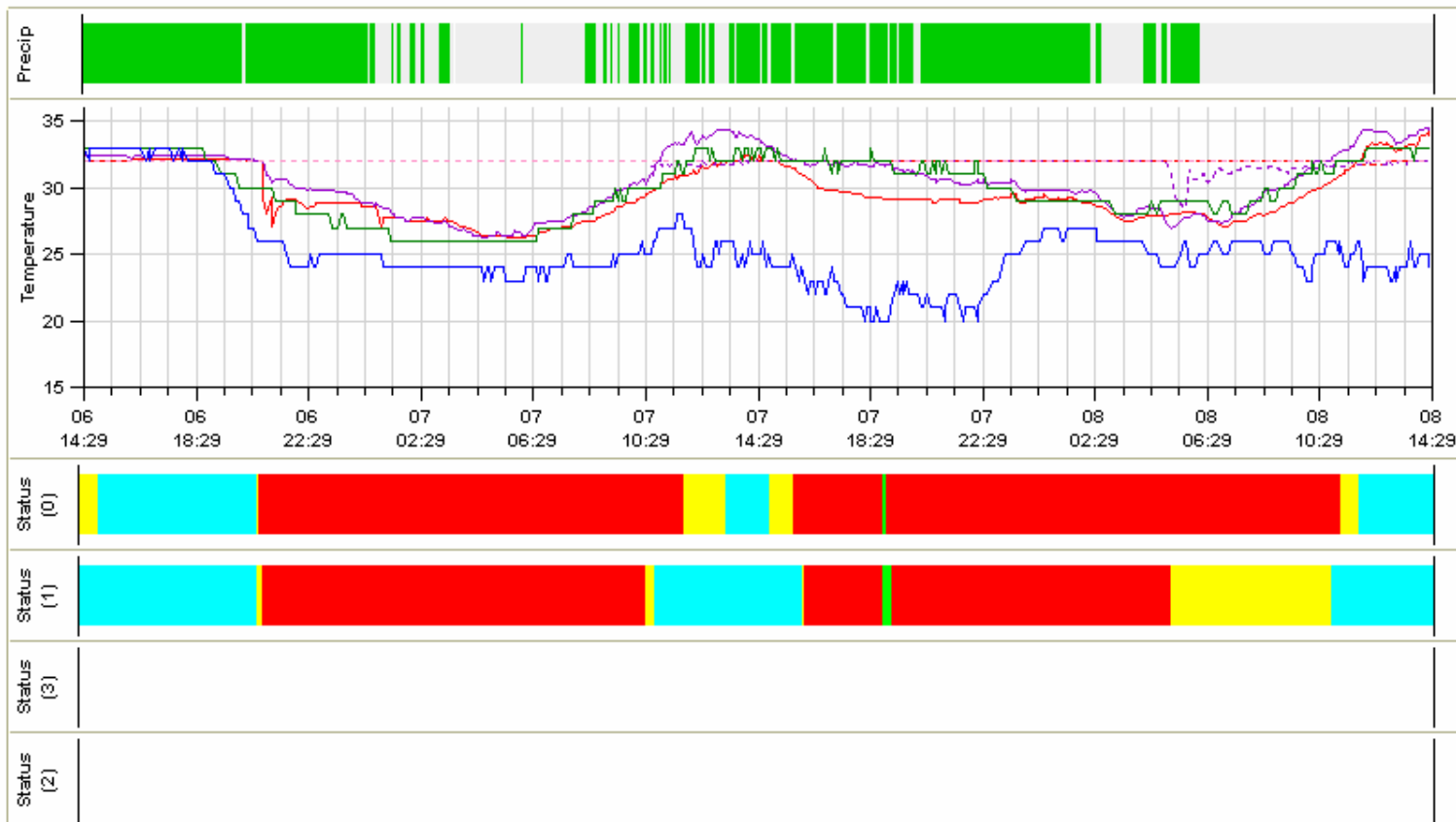
Site Data

- ▶ Site Status
- ▶ Traffic
- ▶ Atmospheric History

Related Links

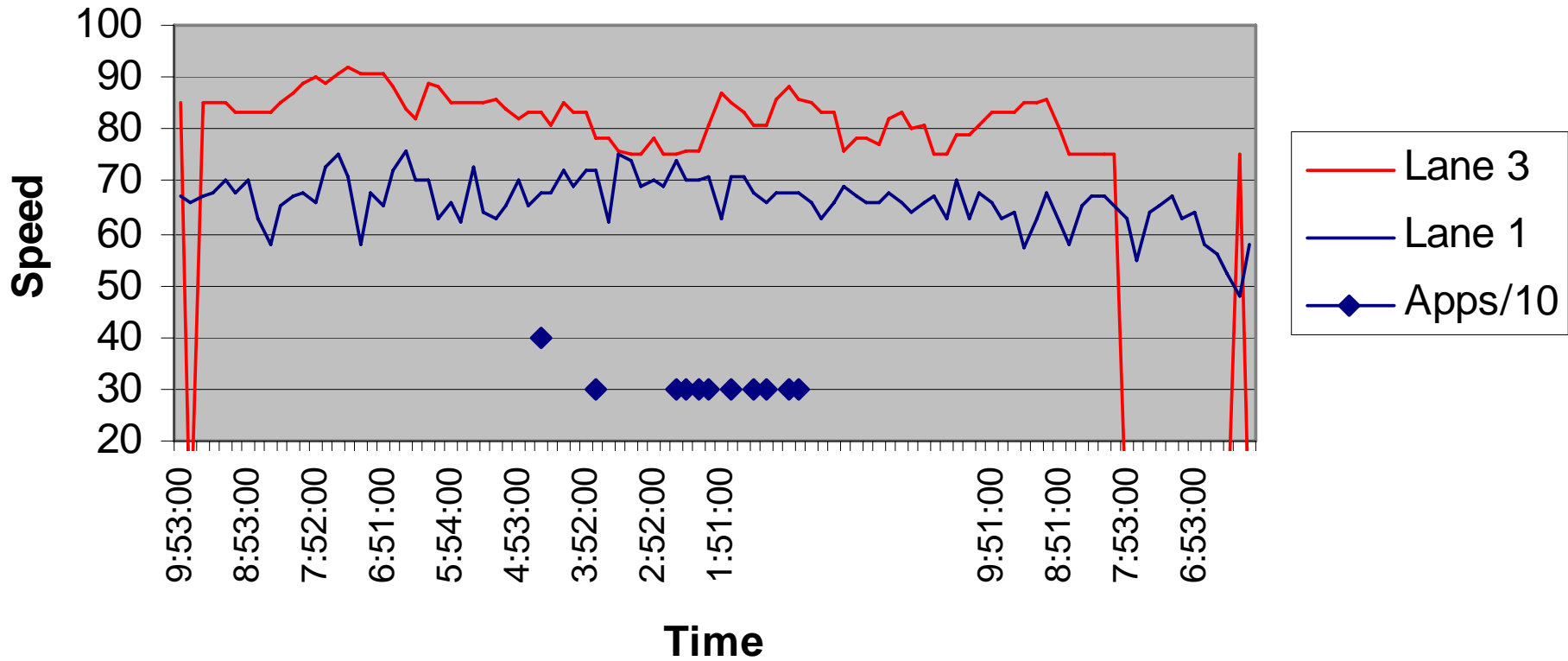
- ▶ User's Guide
- ▶ Glossary
- ▶ Disable Java Links
- ▶ Administration

Generated: 03/03/2005 14:32 PST

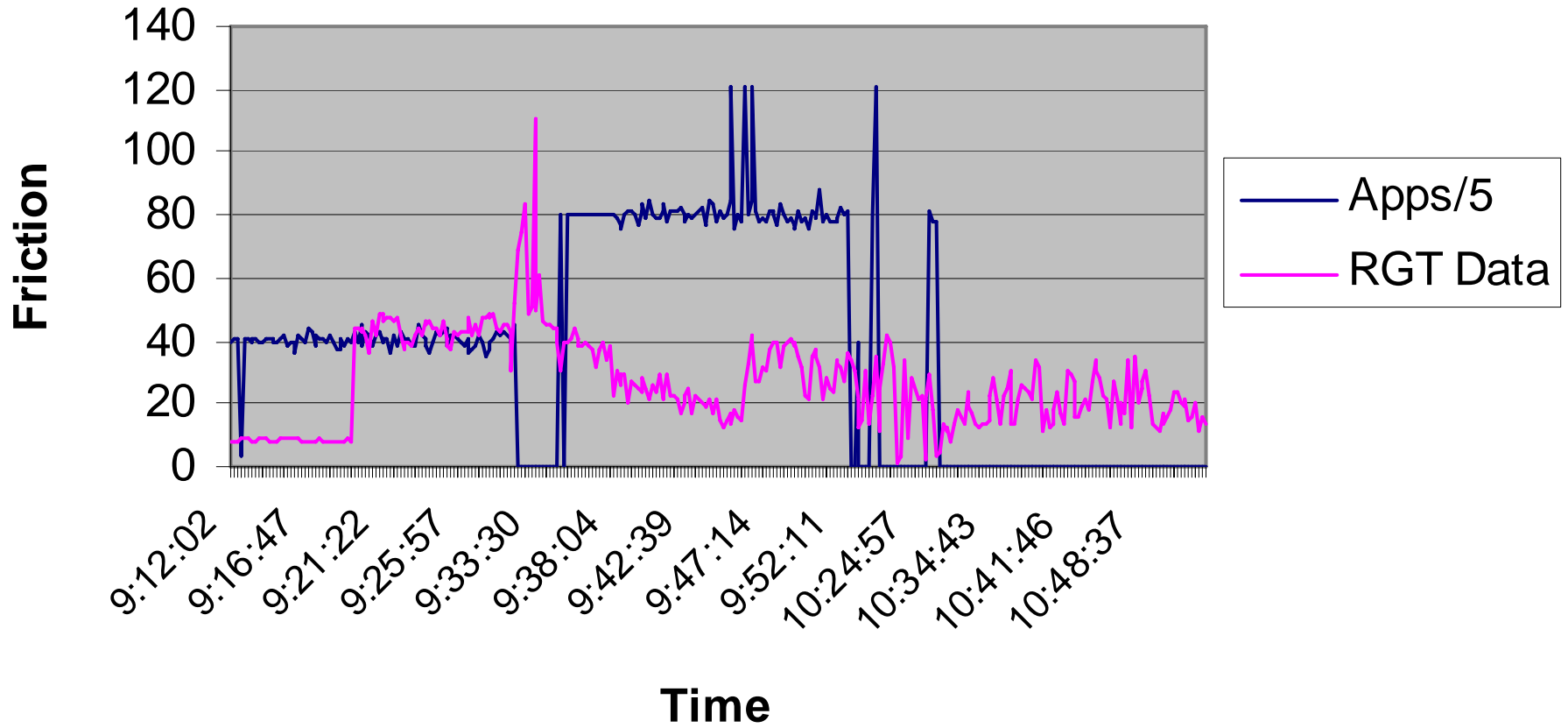
[▶ Sf / Pc. Table](#)
[▶ Sf / Atm. Table](#)
[▶ Atmos. Table](#)
[▶ Precip. Table](#)


History Graph		Scale		Data Options					
Group:	WA - Hyak - (WSDOT)	End Date: (mm/dd/yyyy hh:mm)		Air Temp	<input checked="" type="checkbox"/>	EB I-90 Lane 1 (0)	<input checked="" type="checkbox"/>	Legends <input type="checkbox"/>	
Site:	Asahel Curtis(83006)	<input type="text" value="1/8/2005 14:29"/>		Dew Temp	<input checked="" type="checkbox"/>	EB I-90 Lane 2 (1)	<input checked="" type="checkbox"/>		
Copyright © 1998-2004 Surface Systems, Inc., All Rights Reserved			Time period:	6 hrs <input type="radio"/>	12 hrs <input type="radio"/>	Freeze Temp	<input checked="" type="checkbox"/>	EB Lane 2 Frensor (3)	<input checked="" type="checkbox"/>
				24 hrs <input type="radio"/>	48 hrs <input checked="" type="radio"/>	Surface Temp	<input checked="" type="checkbox"/>	Frensor (2)	<input checked="" type="checkbox"/>
							<input type="button" value="Update"/>	<input type="button" value="Reset"/>	

Asahel Curtis Speed Data 1/8/2005



6E13-27 Data 1/6/2005



Initial Evaluation

- Pros
 - Data collection system works
 - Successfully integrated sensors and the friction wheel
 - Web display “useable” (with experience)
 - Cell phone coverage better than expected

Initial Evaluation (cont.)

- Cons

- NO Winter!!
- Difficulty “stabilizing “ equipment
- Problems with hydraulic systems
- Not all the data collected we need for maintenance management

Grey Island Systems Inc Message Terminal



Future

- Meeting Mar 17, 2005 to discuss
- Prepare formal evaluation
 - Other data sets available
 - Need to develop comparisons for road condition determination
- Hope to continue again next winter



Questions?

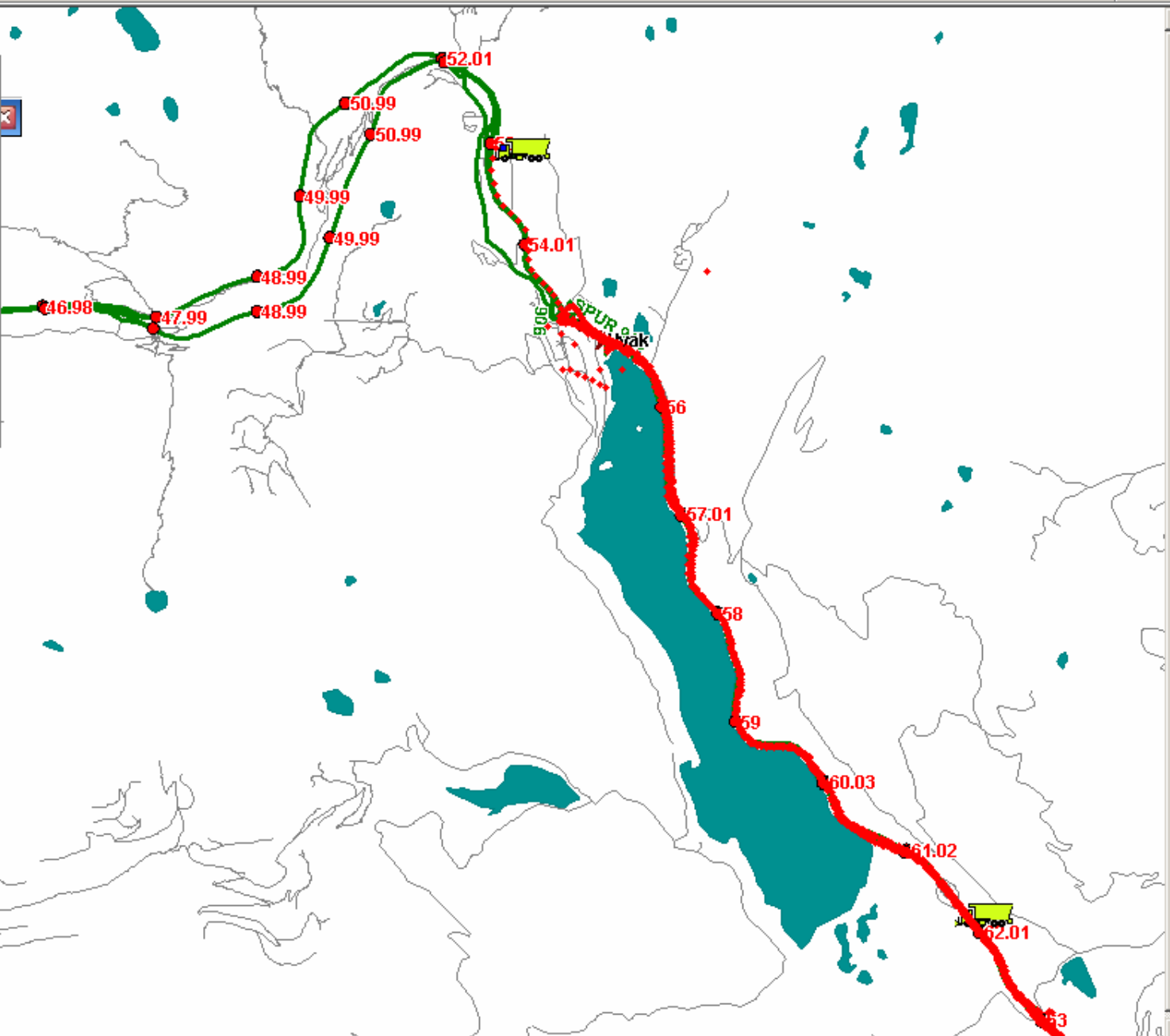
Tracks Menu ▾
Data Browser Menu ▾
Data Browser

Reverse Stop Forward

600 Set Rate

2005-01-07 14:34:27

- Hide
- Data
- SpGraph
- Query*
- WSDOT Salt
- Landmarks
- Reports*



WASHINGTON DOT Salt Usage Report for WSDOT 6E13-27
 from 2005/01/06 01:00 to 2005/01/08 01:00

Report
 period

Vehicle Name : WSDOT 6E13-27

Date M D Y	Time Called	Requested By /ForeMan	Key Time	Time Comp.	Operation No.	Miles Spread	Dead Head	Miles Total	Sand Pile Mix		Liquid		Application		Routes Taken	Hub Meter Re Miles Accomplished	
									Deice (lbs)	Sand (lbs)	Pre-Wet (gal)	Anti-ice (gal)	Rate Dry	Rate Liquid		Start	End
1/5/2005			9:09	9:55		0	21.43	21.43	0	0	0	0	0	0			
1/5/2005			10:24	11:41		0	39.88	39.88	0	0	0	0	0	0			
1/5/2005			12:34	14:03		0	41.97	41.97	0	0	0	0	0	0			
1/5/2005			14:27	15:57		0	41.3	41.3	0	0	0	0	0	0			
1/5/2005			15:57	16:58		0	25.06	25.06	0	0	0	0	0	0			
1/5/2005			17:10	17:58		0	23.52	23.52	0	0	0	0	0	0			
1/6/2005			7:03	9:27		0	57.47	57.47	0	0	0	0	0	0			
1/6/2005			10:01	12:14		0	58.77	58.77	0	0	0	0	0	0			
1/6/2005			13:12	16:01		0	81.34	81.34	0	0	0	0	0	0			
1/6/2005			16:25	17:55		0	38.68	38.68	0	0	0	0	0	0			

GIS Interfleet Reporting Sytem - Version 1.1.6

Customer: washingtondot

- Welcome to the Interfleet Reporting Sytem
 - How to Use the Interfleet Reporting Sytem
- Reports
 - Activity Summary
 - Stops Report
 - Vehicle Status**
- Operation Reports
 - Winter Operation Report

Vehicle Status Report

Print Refresh

Search for:

Vehicles:

Vehicle Status Color Legend

Green	Moving
Yellow	stops <= 5 min
Pink	stops > 5 min and stops <= 3.5 hrs
Light Red	stops > 3.5 hrs and stops <= 48 hrs
Red	stops > 48 hrs

Vehicle Name	Status	Date/Time	Location
WSDOT 6E13-27 - 4816761	<input type="checkbox"/> Stopped 0(miles/h) 10D:19H:50M	1/28/2005 3:39:28 PM	See location on the map

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Activity Summary Report



Search for:

Vehicle Name-address: 8A10-54-5038805
 8A10-54 old-2712749
 8A10-68-2719925
 WSDOT 6A5-302-2715151
 WSDOT 6E13-27-4816761
 WSDOT 6E6-36-5618168

Date/Time From: 1/6/2005 01 00 AM Report type HTML

Date/Time To: 1/8/2005 01 00 AM

Date	Vehicle	Travel time	Stop time	Distance (Miles)	Max Speed	Stops (Mph)
1/6/2005 01:00:00 AM - 1/8/2005 01:00:00 AM	WSDOT 6E13-27-4816761	14:49:37	19:11:41	425.2	53.4	26

