

Technical Development of the Western States One Stop Shop for Rural Traveler Information

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Disclaimer

The opinions, findings and conclusions expressed in this presentation are those of the authors and not necessarily those of the Western States Rural Transportation Consortium, the California Department of Transportation, or Montana State University.

Acknowledgements

- *Caltrans D2*
- *Caltrans DRI*
- *WSRTC*
- *FHWA – Clarus*
- *WTI UTC*

Abstract

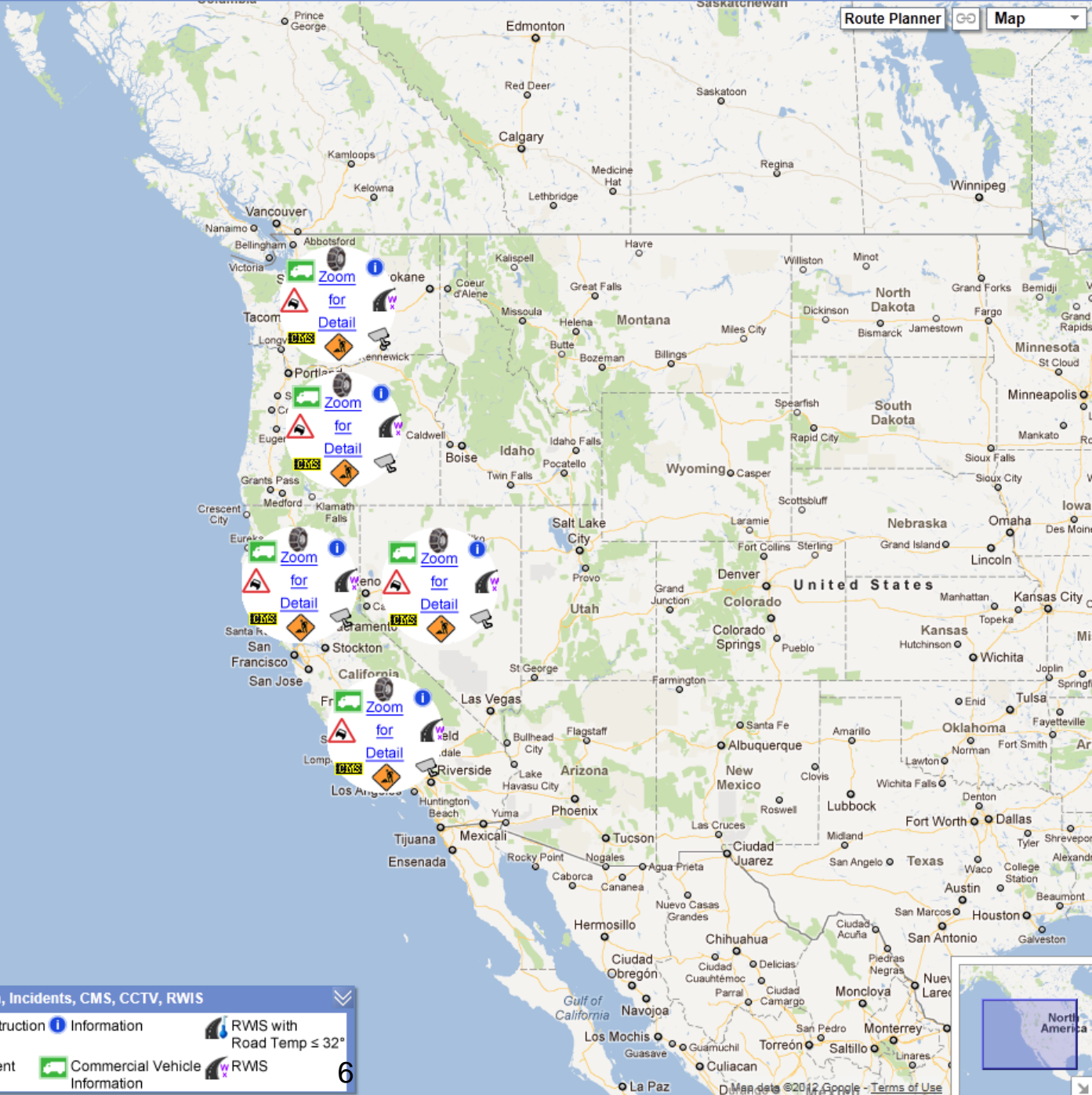
The One-Stop-Shop (OSS) web application provides travelers with comprehensive, real-time data that can be used in planning their trips. OSS presents routing functionality, camera images, weather information, elevation profiles, rest areas, points of interest and more, in a consistent, easily accessible and intuitive interface that allows travelers to plan both in-state trips and trips that cross state borders. OSS currently covers California, Oregon, Washington and Nevada.

OSS was developed using a "best effort" approach to bring in data from four states and ten organizations, providing over 25 separate layers. States were not required to change their feeds for use in OSS, although they were encouraged to make data accessible online that otherwise was not available. Managing the import and presentation of this data via an intuitive interface presented various technical challenges to the project team, and the prospect of future expansion to additional western states was taken into account when developing the system.

In this presentation we will discuss the architecture of the One-Stop-Shop, including implementation details on both the client-side and server-side.

What is OSS?

A Pictorial Overview ...



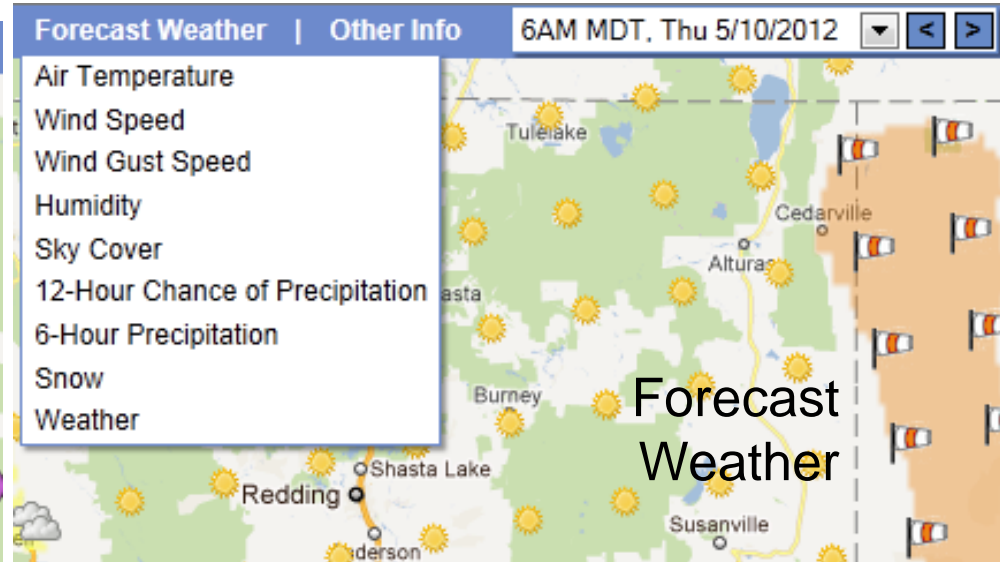
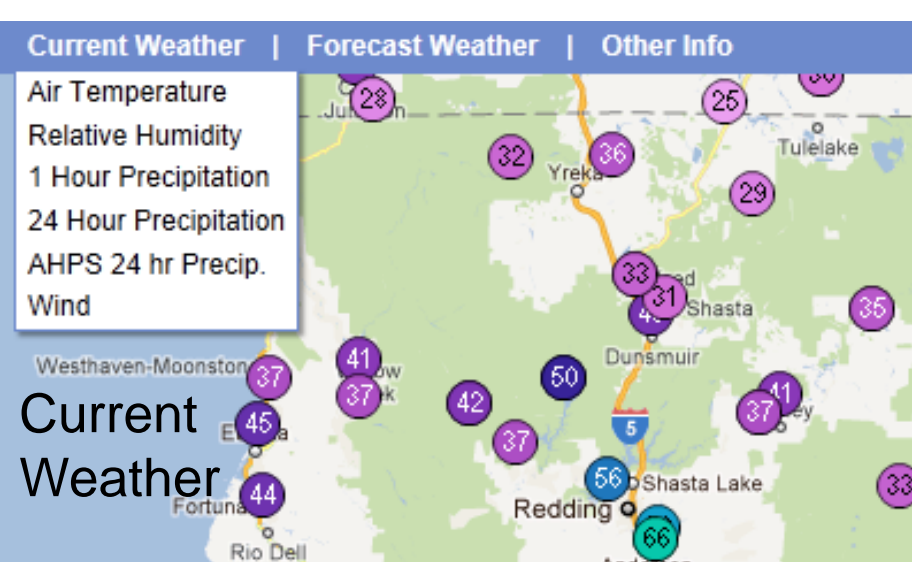
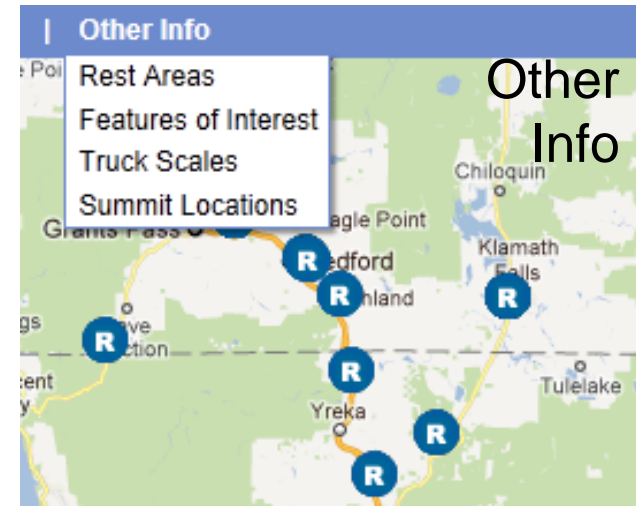
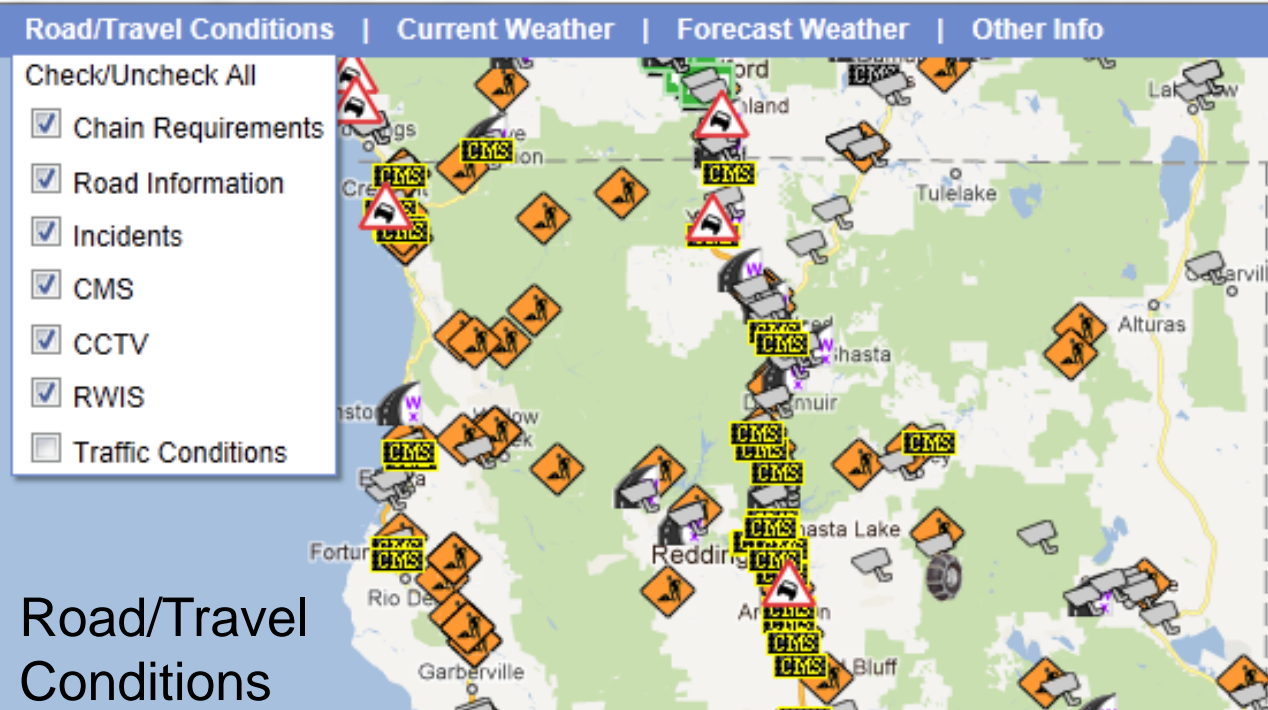
Default View

Legend: Chain Requirements, Road Information, Incidents, CMS, CCTV, RWIS

Active CMS	CCTV Camera	Construction	Information	RWIS with Road Temp $\leq 32^{\circ}$
Inactive CMS	Chain Restriction	Incident	Commercial Vehicle Information	RWIS

6

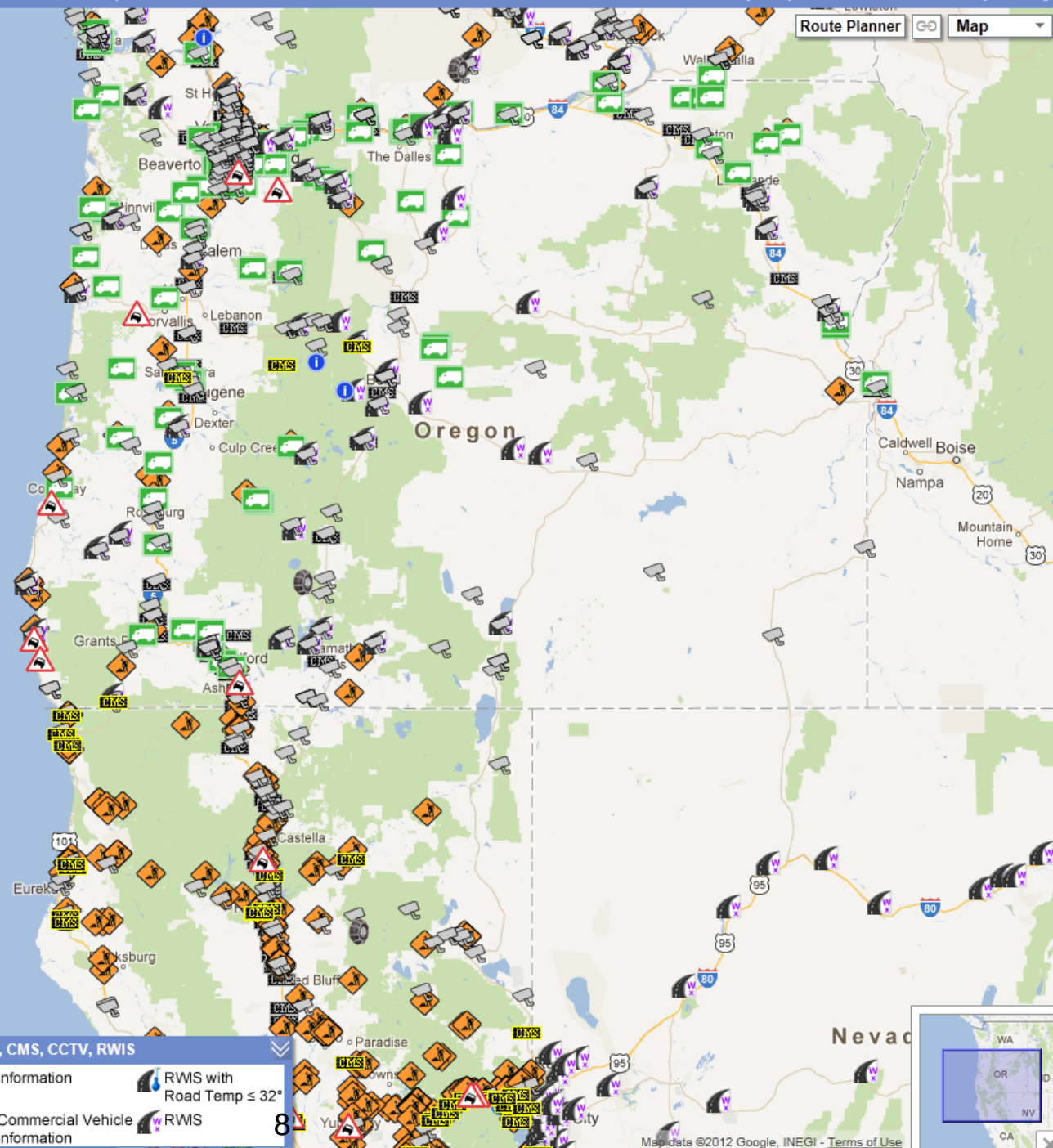
The Layers



- Check/Uncheck All
- Chain Requirements
 - Road Information
 - Incidents
 - CMS
 - CCTV
 - RWIS
 - Traffic Conditions



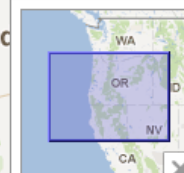
Route Planner Map



Road/ Travel Conditions

Legend: Chain Requirements, Road Information, Incidents, CMS, CCTV, RWIS

Active CMS	CCTV Camera	Construction	Information	RWIS with Road Temp ≤ 32°
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- Check/Uncheck All
- Chain Requirements
 - Road Information
 - Incidents
 - CMS
 - CCTV
 - RWIS
 - Traffic Conditions



I5 N / Lakehead Dr Ofr
 Time: 1:02 PM MDT - Fri, May 18 2012

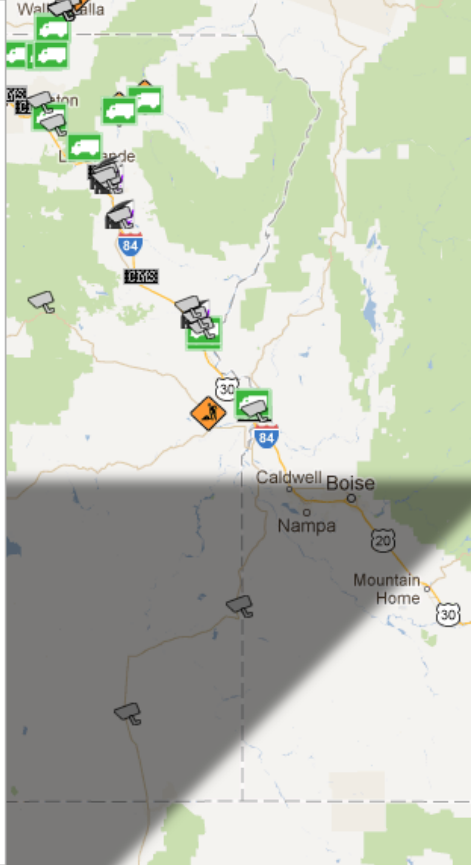
Detail:

May 18 2012 12:41PM : [21] 1039 CT // GAVE UPDATE [Shared]
 May 18 2012 12:37PM :
 [20] 1039 TWIN VIEW WITH UPDATE ON THEIR TOW [Shared]
 May 18 2012 12:33PM : [18] A37-056 REQ
 1185 FOR FED EX BIG RIG PULLING A SET OF DBLS FULLY LOADED [Shared]
 May 18 2012 12:32PM : [17]
 SLA DOESN'T HAVE A BIG RIG TOW ANY LONGER [Shared]
 May 18 2012 12:32PM : [16] A37-056 #3 LN
 PARTIALLY BLKD BY BOTH VEH [Shared]
 May 18 2012 12:31PM : [15] JandN TRUCKING CALLED BACK ///
 FLEET NET CAN'T GET AHOLD OF A TOW // REQ CHP CALL A ROTATION TOW [Shared]
 May 18 2012
 12:27PM : [14] PER JandN TRUCKING THEY HAVE A TOW ENRT // FLEET NET 888-218-3739 [Shared]
 May
 18 2012 12:11PM : [10] [CHP] has closed their incident [120518RD00061]
 May 18 2012 12:06PM :
 [7] 1039 CT
 May 18 2012 12:06PM : [6] THE SMALL BOX VAN IS 1125 BY ABOUT 1FT INTO THE LANE

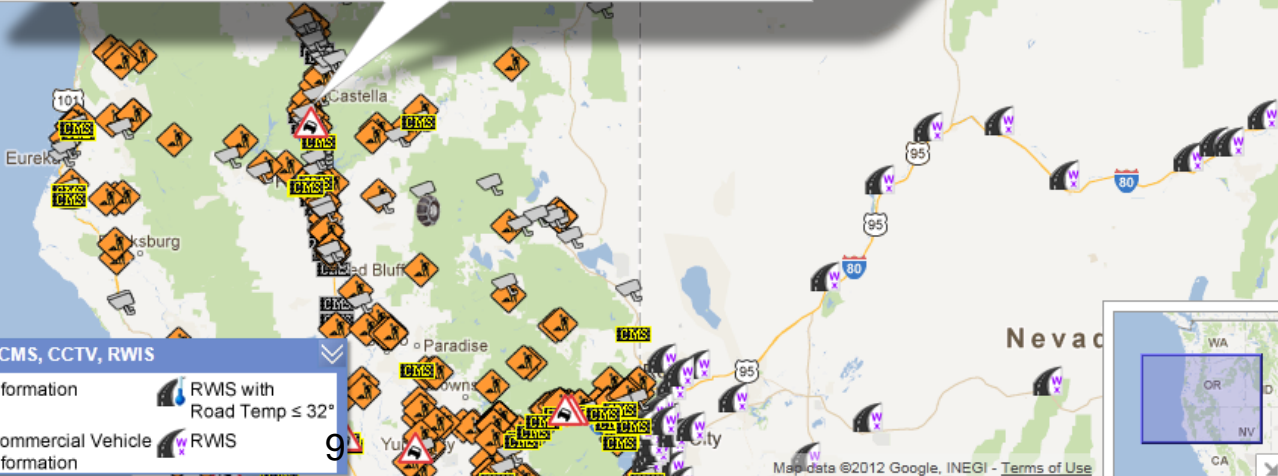
May 18 2012 12:05PM : [4] THE BACK TRLR OF THE FED EX TK IS WRECKED // WON'T MOVE //
 PARTIALLY 1125 IN THE #3
 May 18 2012 12:03PM : [2] RP INVOLVED IN A TWO VEH REAR-ENDED
 TC
 May 18 2012 12:02PM : [1] OPEN LINE

Responding Officer Status:

May 18
 2012 12:12PM : Unit Assigned
 May 18 2012 12:12PM : Unit Enroute
 May 18 2012
 12:28PM : Unit At Scene

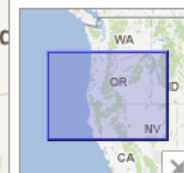


Incident Detail



Legend: Chain Requirements, Road Information, Incidents, CMS, CCTV, RWIS

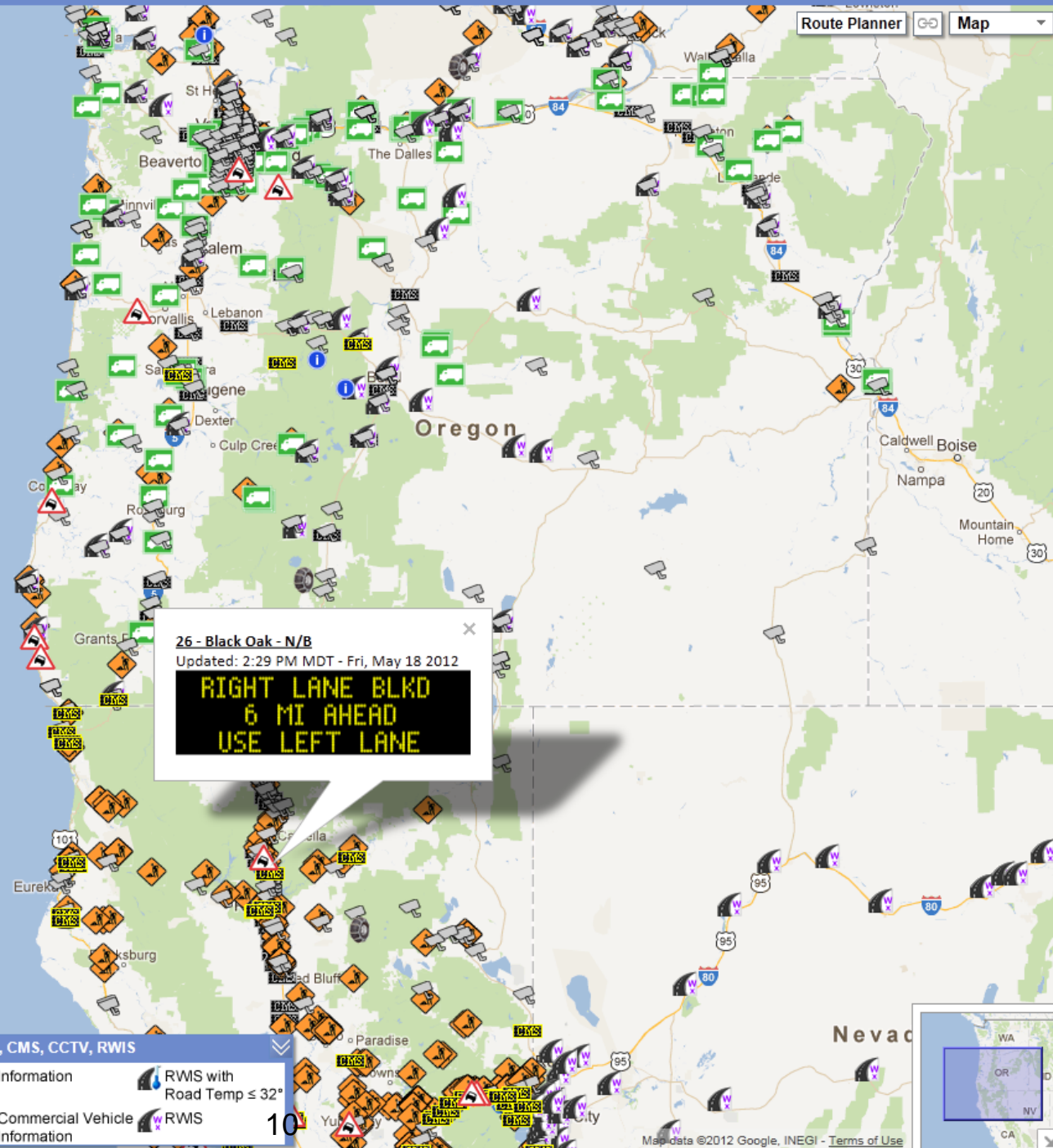
Active CMS	CCTV Camera	Construction	Information	RWIS with Road Temp ≤ 32°
Inactive CMS	Chain Restriction	Incident	Commercial Vehicle Information	RWIS





- Check/Uncheck All
- Chain Requirements
 - Road Information
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 - RWIS
 - Traffic Conditions

Route Planner Map



26 - Black Oak - N/B
 Updated: 2:29 PM MDT - Fri, May 18 2012
**RIGHT LANE BLKD
 6 MI AHEAD
 USE LEFT LANE**

CMS Message

Legend: Chain Requirements, Road Information, Incidents, CMS, CCTV, RWIS

Active CMS	CCTV Camera	Construction	Information	RWIS with Road Temp $\leq 32^\circ$
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- Check/Uncheck All
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- Traffic Conditions



CCTV Image



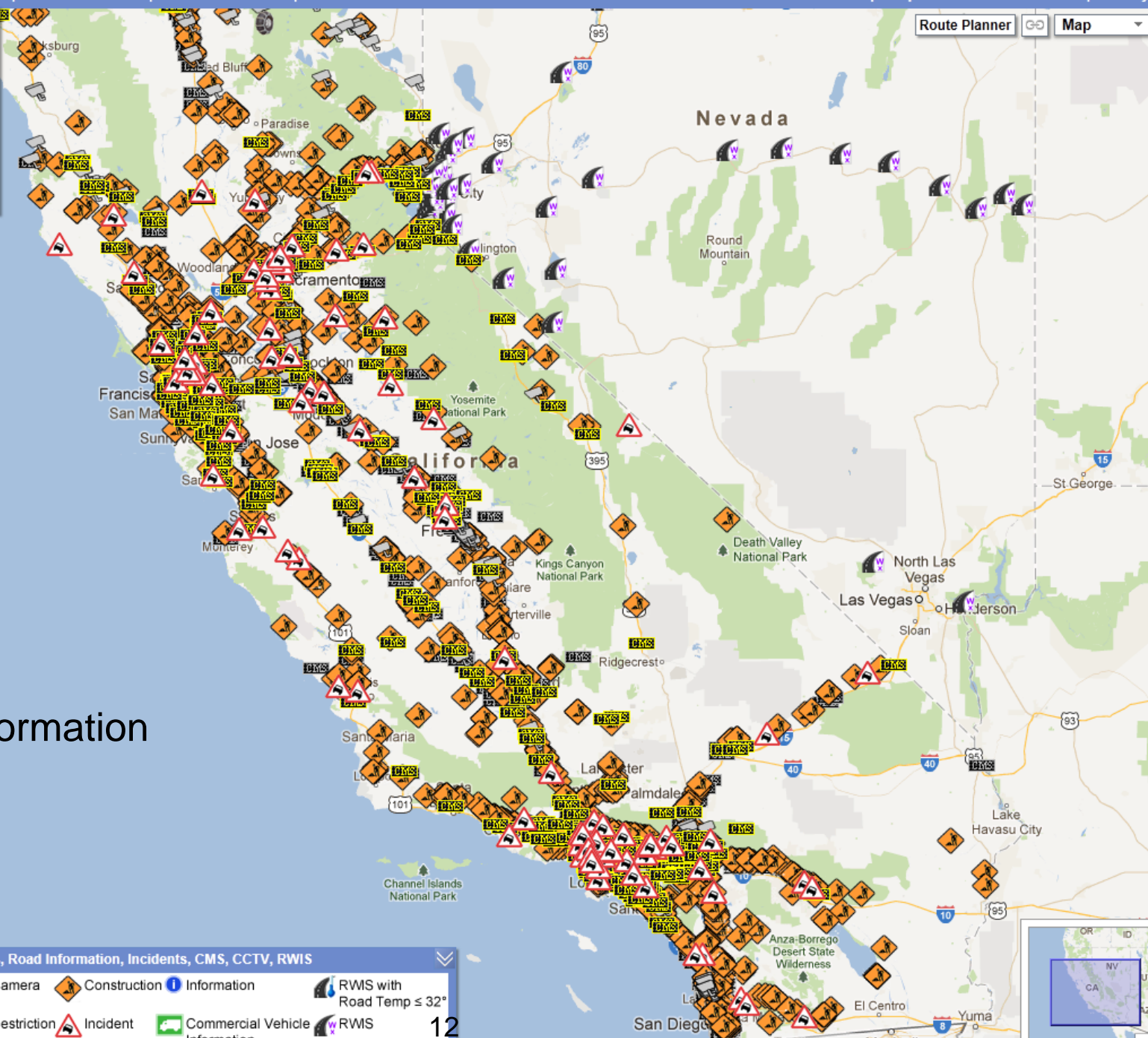
Legend: Chain Requirements, Road Information, Incidents, CMS, CCTV, RWIS

Active CMS	CCTV Camera	Construction	Information	RWIS with Road Temp $\leq 32^{\circ}$
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11



- Check/Uncheck All
- Chain Requirements
- Road Information
- Incidents
- CMS
- CCTV
- RWIS
- Traffic Conditions

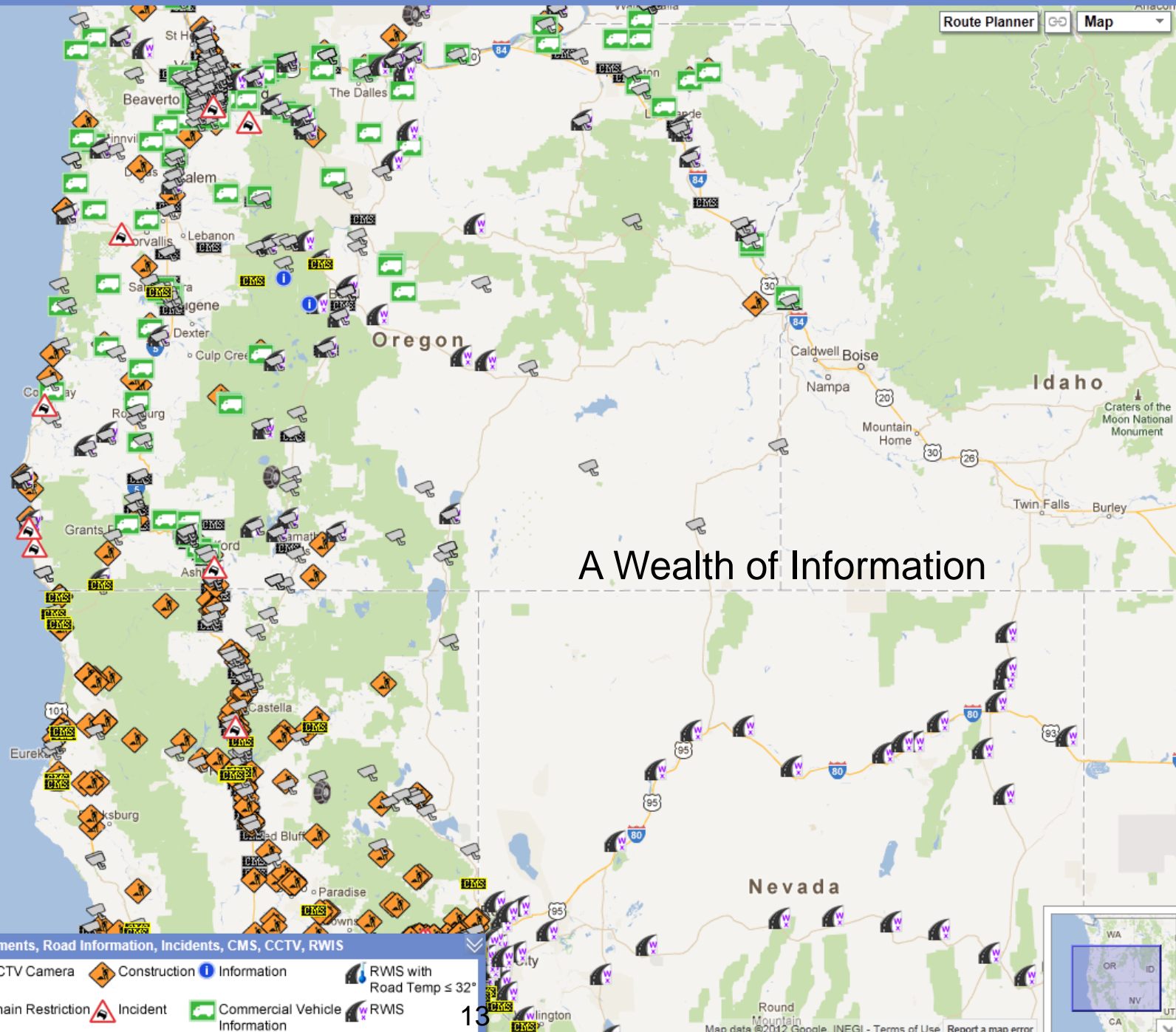


A Wealth of Information

Legend: Chain Requirements, Road Information, Incidents, CMS, CCTV, RWIS

Active CMS	CCTV Camera	Construction	Information	RWIS with Road Temp ≤ 32°
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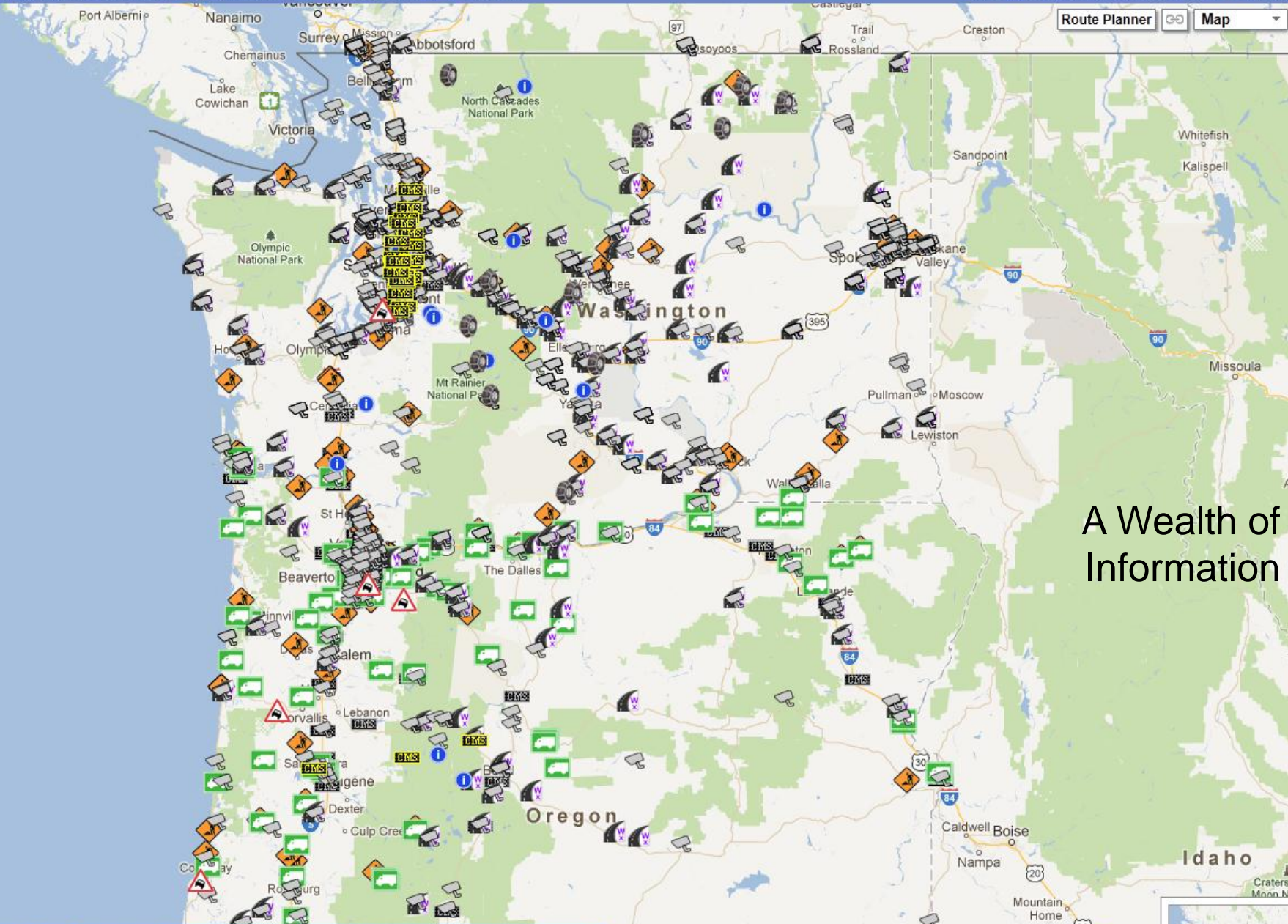


A Wealth of Information

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Active CMS	CCTV Camera	Construction	Information	RWIS with Road Temp ≤ 32°
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A Wealth of Information

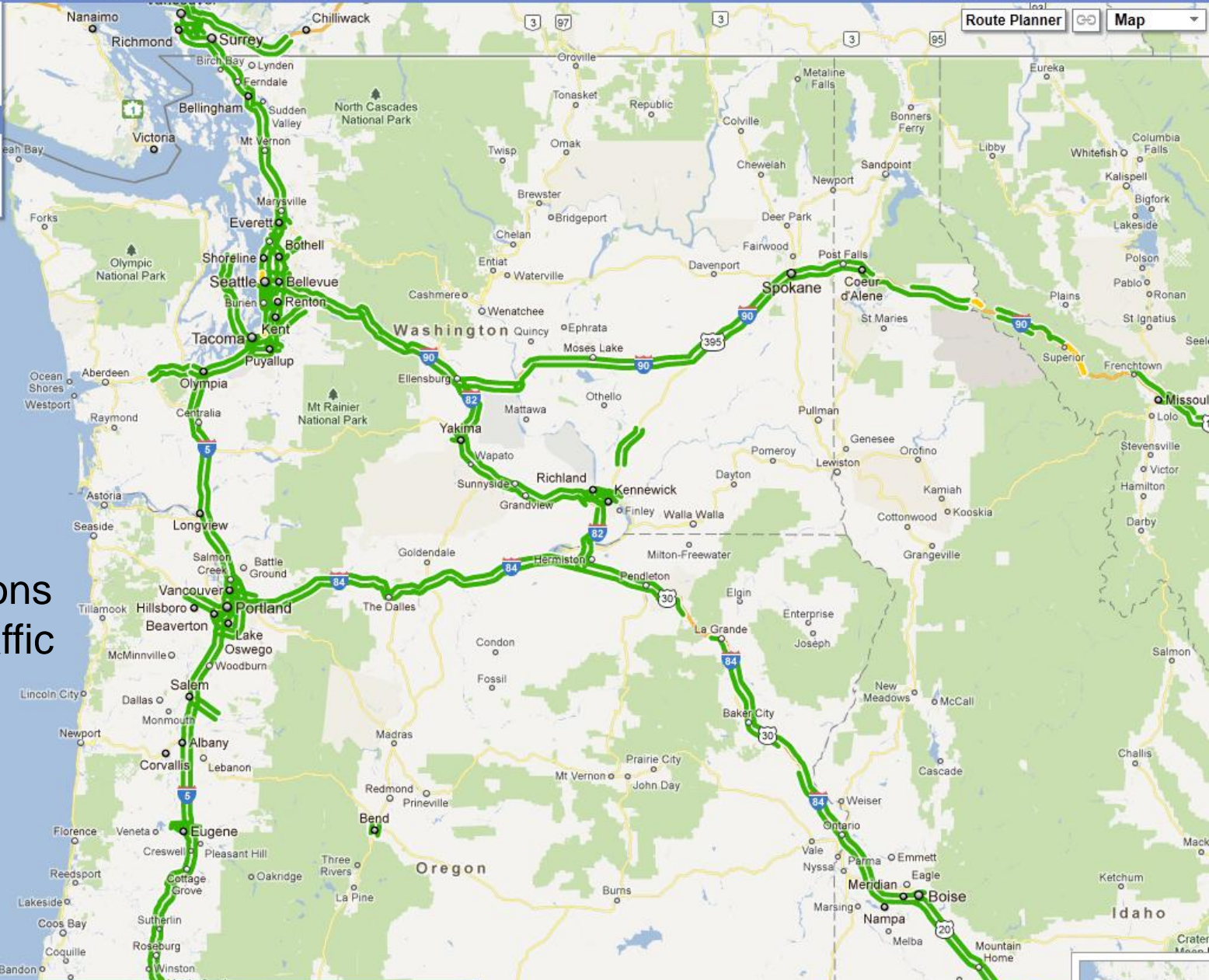
Legend: Chain Requirements, Road Information, Incidents, CMS, CCTV, RWIS

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- Check/Uncheck All
- Chain Requirements
 - Road Information
 - Incidents
 - CMS
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 - RWIS
 - Traffic Conditions



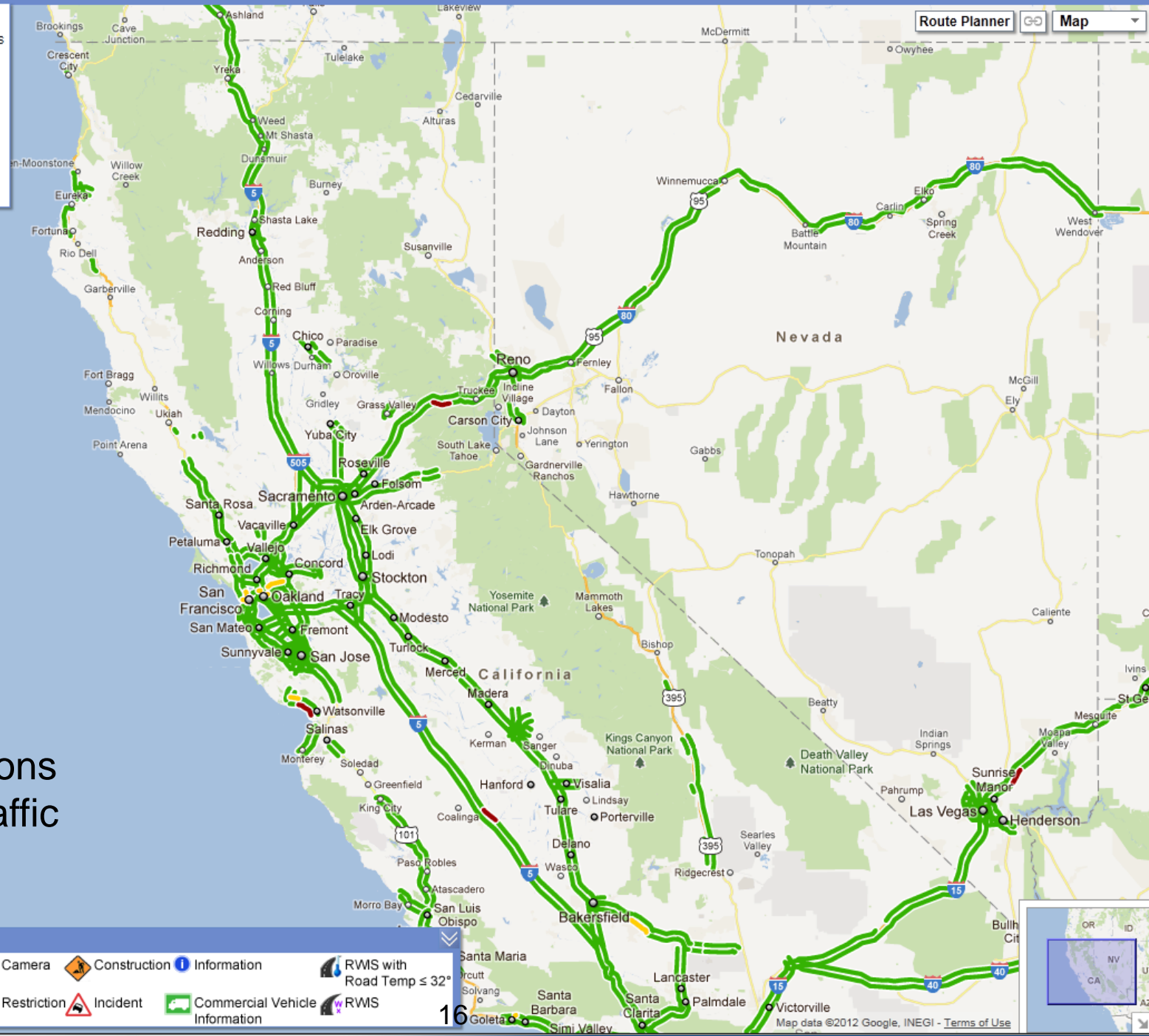
Traffic Conditions via Google Traffic

Legend:

Active CMS	CCTV Camera	Construction	Information	RWIS with Road Temp ≤ 32°
Inactive CMS	Chain Restriction	Incident	Commercial Vehicle Information	RWIS



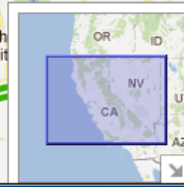
- Check/Uncheck All
- Chain Requirements
 - Road Information
 - Incidents
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 - RWIS
 - Traffic Conditions

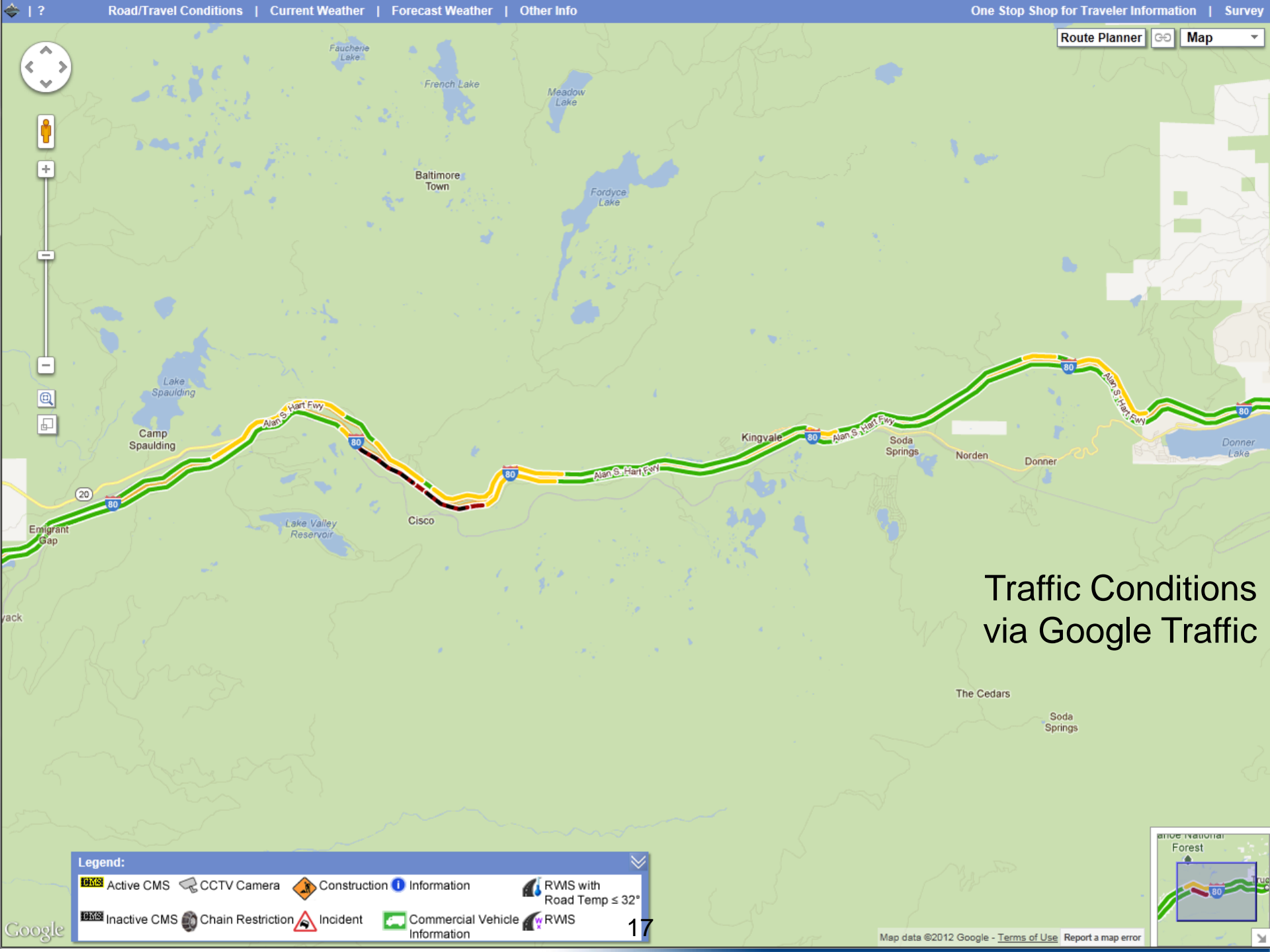


Traffic Conditions via Google Traffic

Legend:

Active CMS	CCTV Camera	Construction	Information	RWIS with Road Temp ≤ 32°
Inactive CMS	Chain Restriction	Incident	Commercial Vehicle Information	RWIS

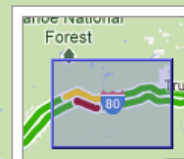




Traffic Conditions via Google Traffic

Legend:

Active CMS	CCTV Camera	Construction	Information	RWS with Road Temp $\leq 32^\circ$
Inactive CMS	Chain Restriction	Incident	Commercial Vehicle Information	RWS



- Check/Uncheck All
- Chain Requirements
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 - Traffic Conditions

Faucherie Lake

French Lake

Meadow Lake

Baltimore Town

Fordyce Lake

Lake Spaulding

Camp Spaulding

Lake Valley Reservoir

Cisco

Kingvale

Soda Springs

Norden

Donner

Donner Lake

The Cedars

Soda Springs

Cisco Grove

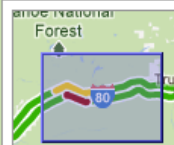
Updated: 2:44 PM MDT - Wed, May 9 2012

CONST ZONE
55 MPH MAX
CHP ON DUTY

CMS Indicating Work Zone

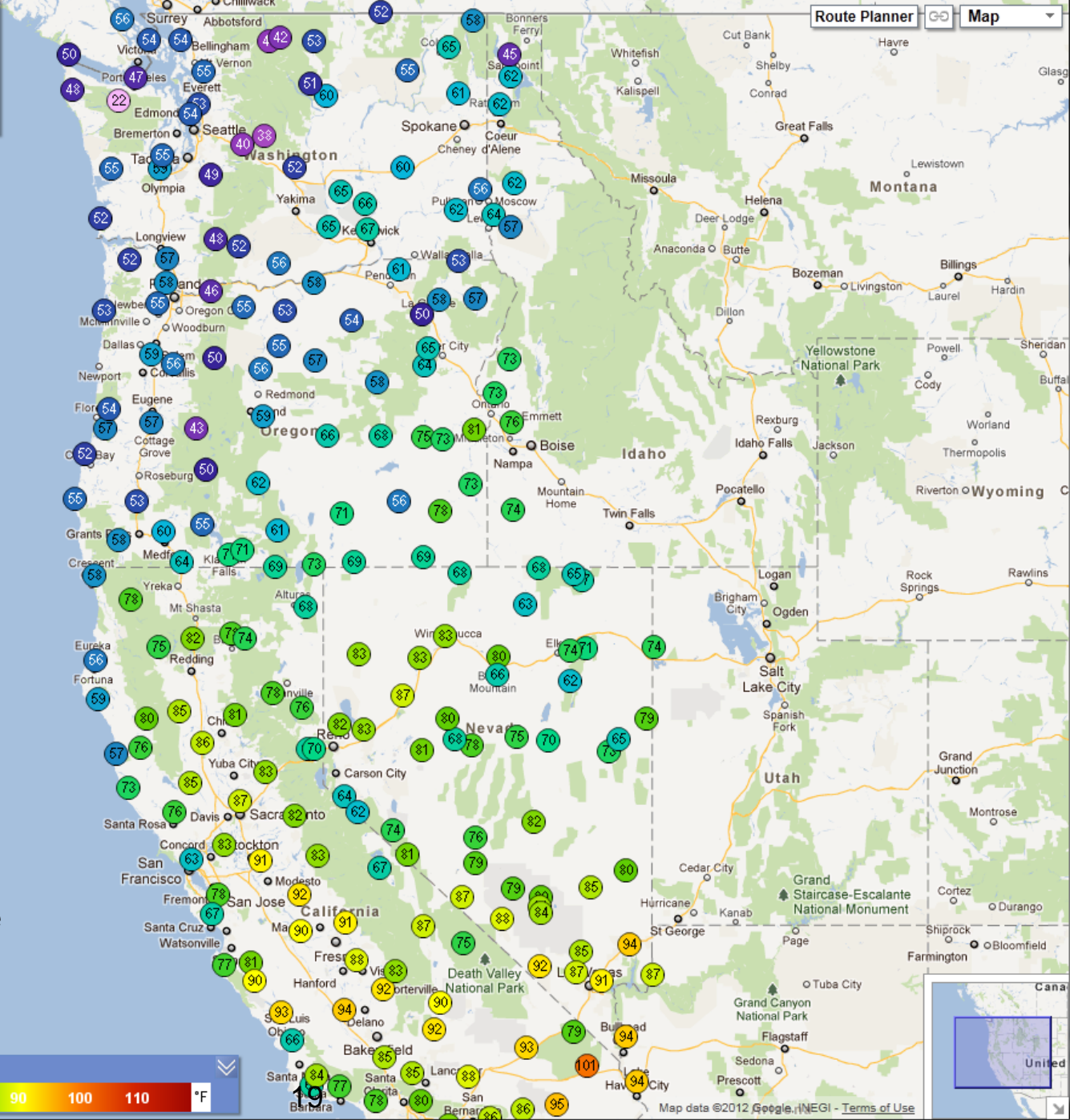
Legend: Chain Requirements, Road Information, Incidents, CMS, CCTV, RWIS

- Active CMS
- CCTV Camera
- Construction
- Information
- RWIS with Road Temp ≤ 32°
- Inactive CMS
- Chain Restriction
- Incident
- Commercial Vehicle Information
- RWIS

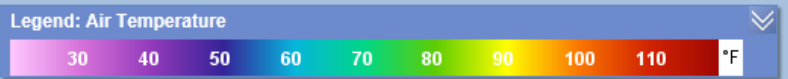


- Air Temperature
- Relative Humidity
- 1 Hour Precipitation
- 24 Hour Precipitation
- AHPS 24 hr Precip.
- Wind

Navigation and map controls including a compass, a person icon, zoom in (+) and zoom out (-) buttons, a location pin icon, and a map data icon.



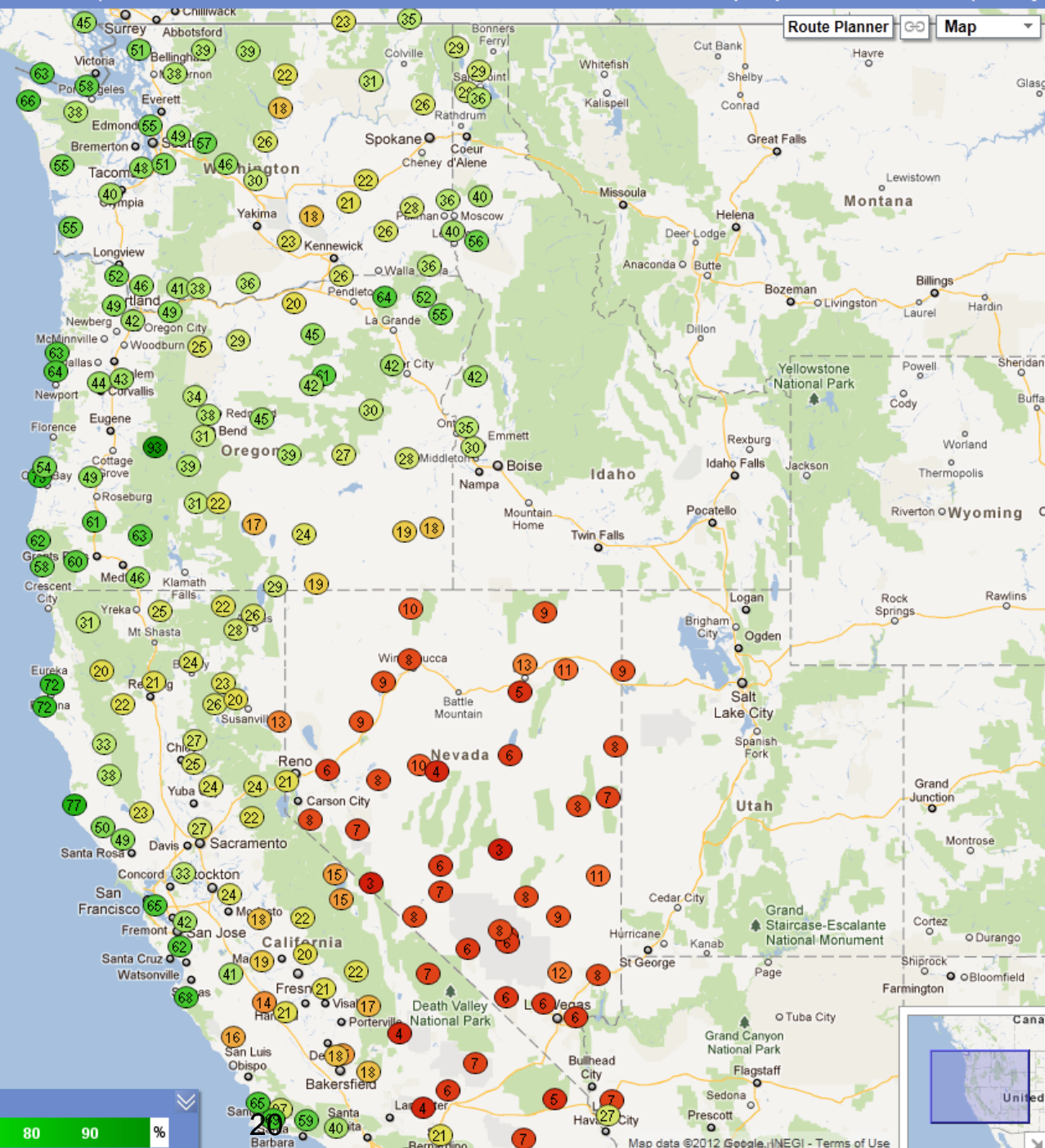
Current Air Temperature



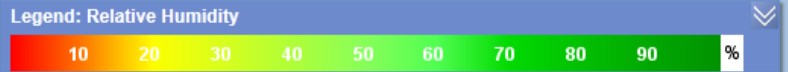


- Air Temperature
- Relative Humidity
- 1 Hour Precipitation
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- Wind

Route Planner Map

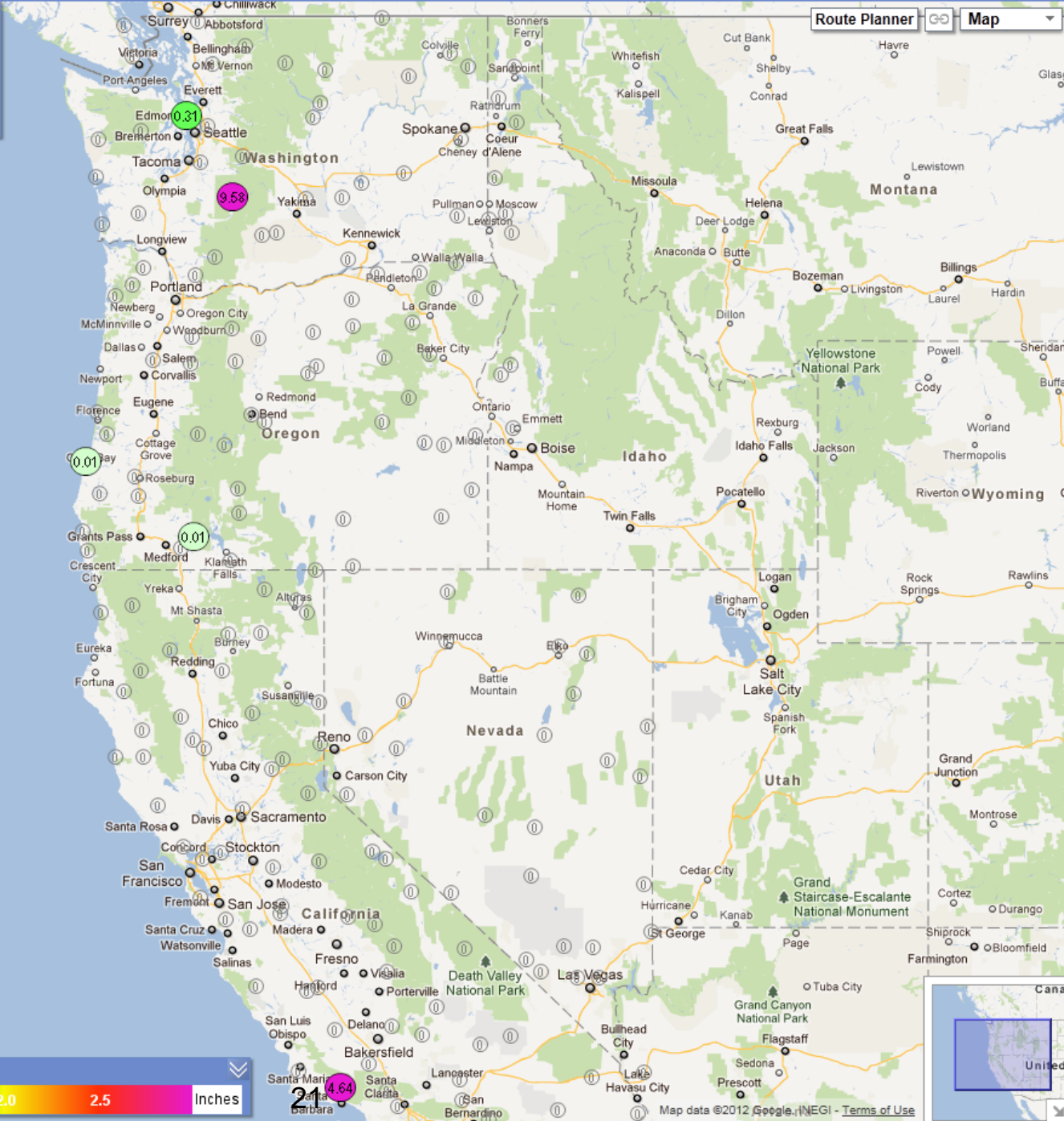


Current Relative Humidity



- Air Temperature
- Relative Humidity
- 1 Hour Precipitation
- 24 Hour Precipitation
- AHPS 24 hr Precip.
- Wind

Route Planner

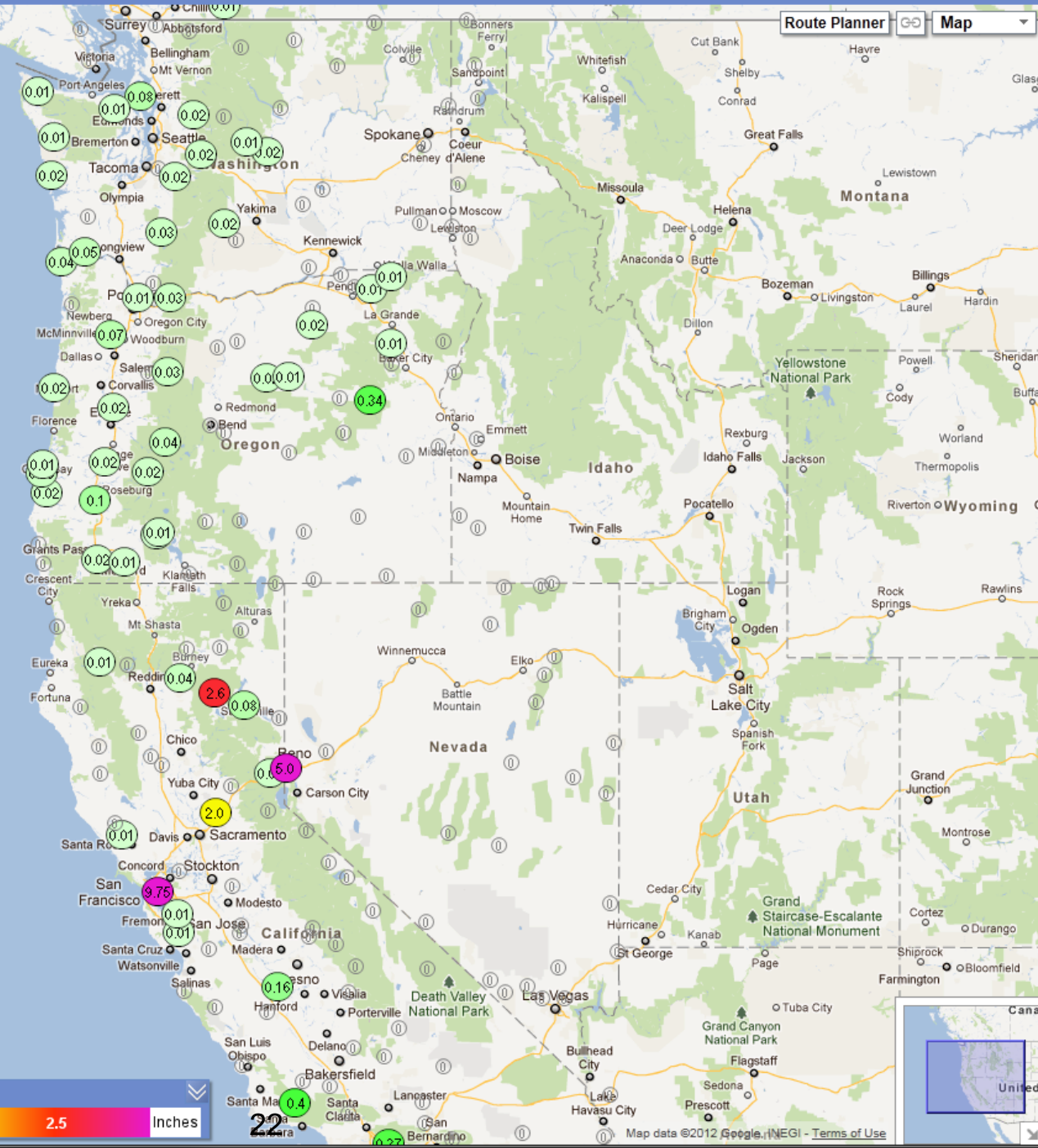


1-Hour Precipitation



- Air Temperature
- Relative Humidity
- 1 Hour Precipitation
- 24 Hour Precipitation
- AHPS 24 hr Precip.
- Wind

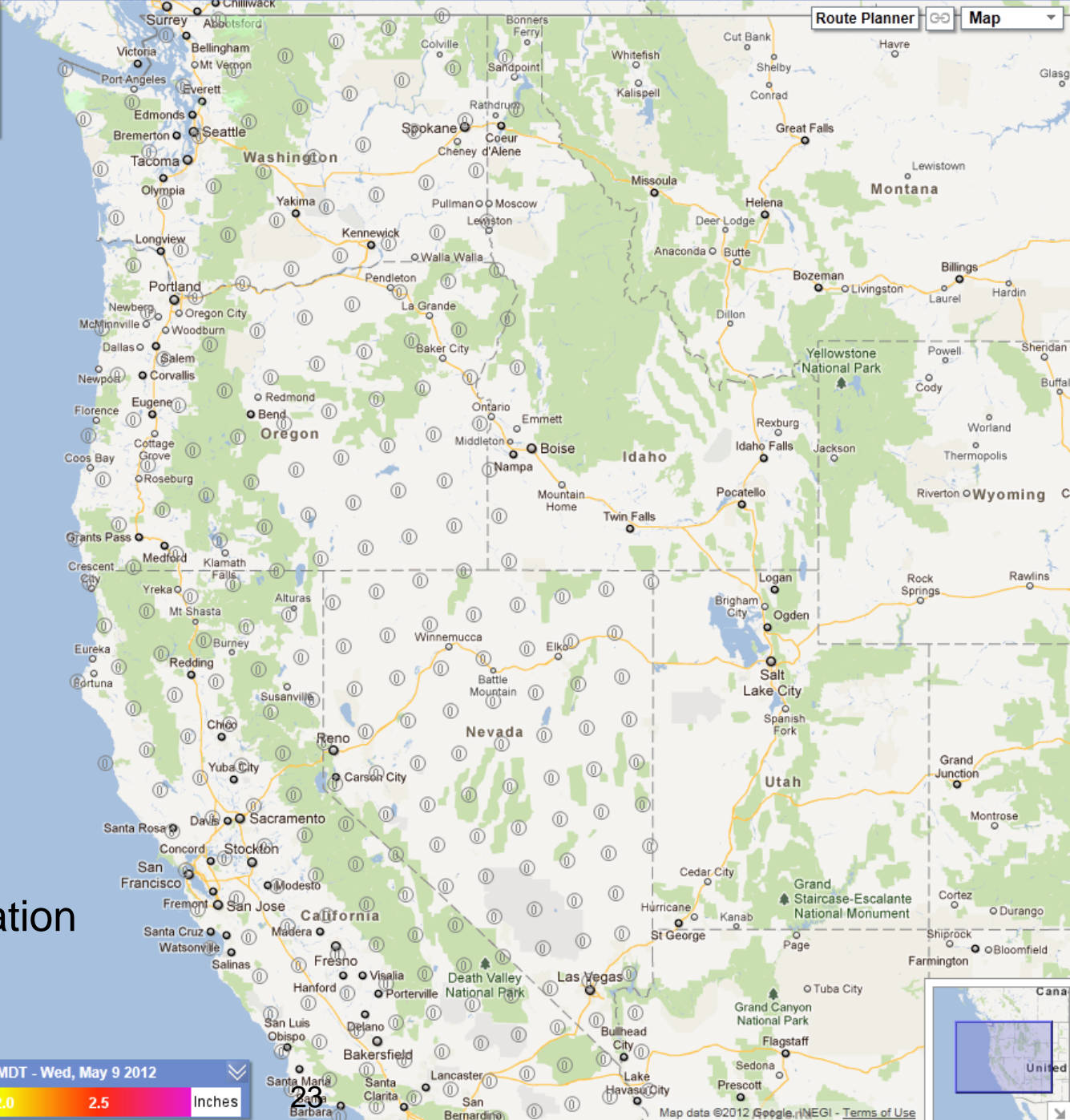
[Route Planner](#) [GO](#) [Map](#)



24-Hour Precipitation

- Air Temperature
- Relative Humidity
- 1 Hour Precipitation
- 24 Hour Precipitation
- AHPS 24 hr Precip.
- Wind

Route Planner Map



AHPS 24-Hour Precipitation

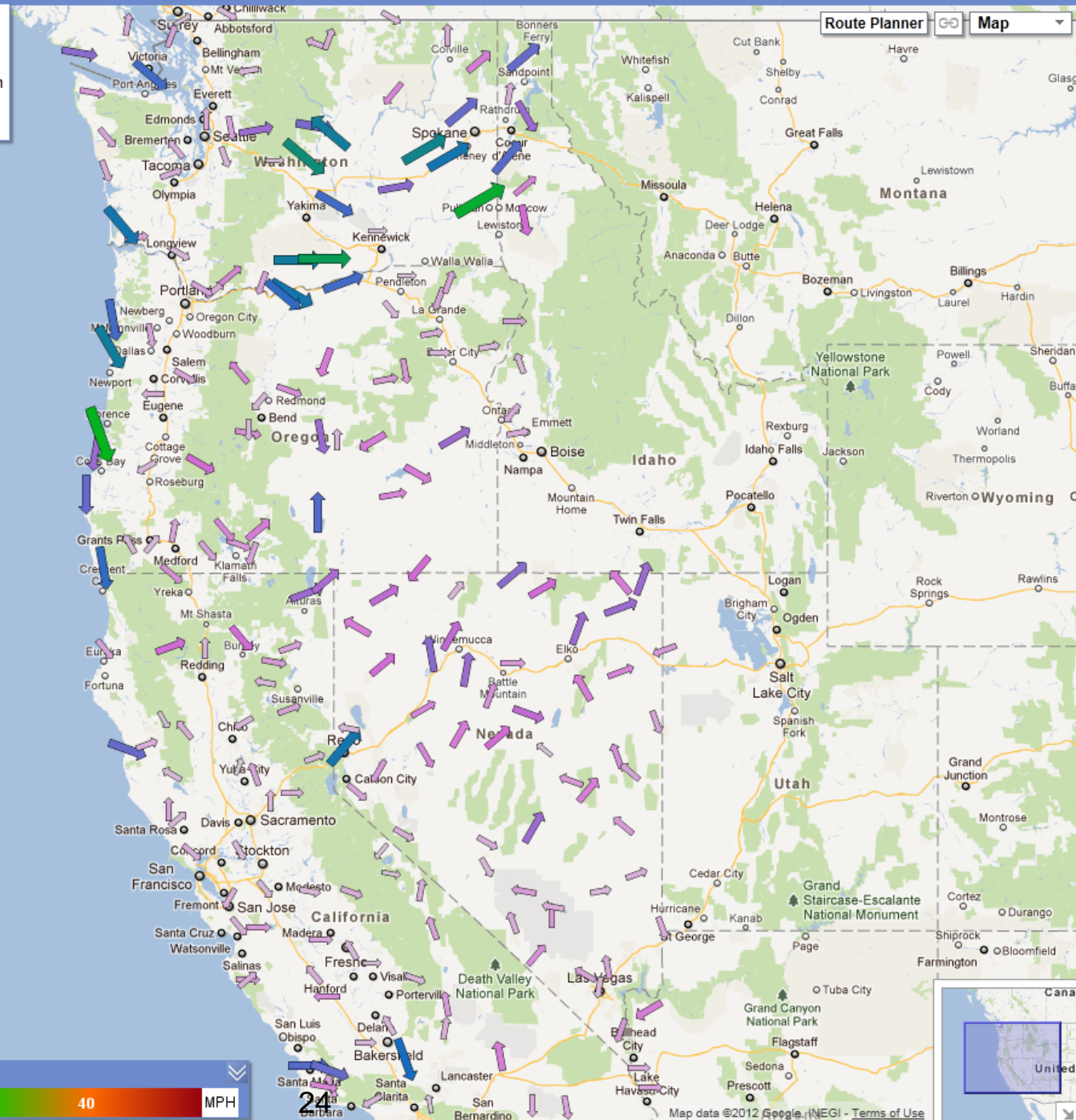
Legend: AHPS 24 hr Precip. - Period Ending 6:00 AM MDT - Wed, May 9 2012

0.5	1.0	1.5	2.0	2.5	Inches
-----	-----	-----	-----	-----	--------

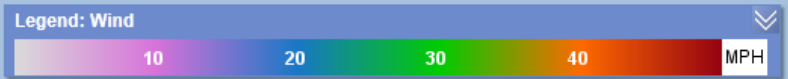


- Air Temperature
- Relative Humidity
- 1 Hour Precipitation
- 24 Hour Precipitation
- AHPS 24 hr Precip.
- Wind

Route Planner Map



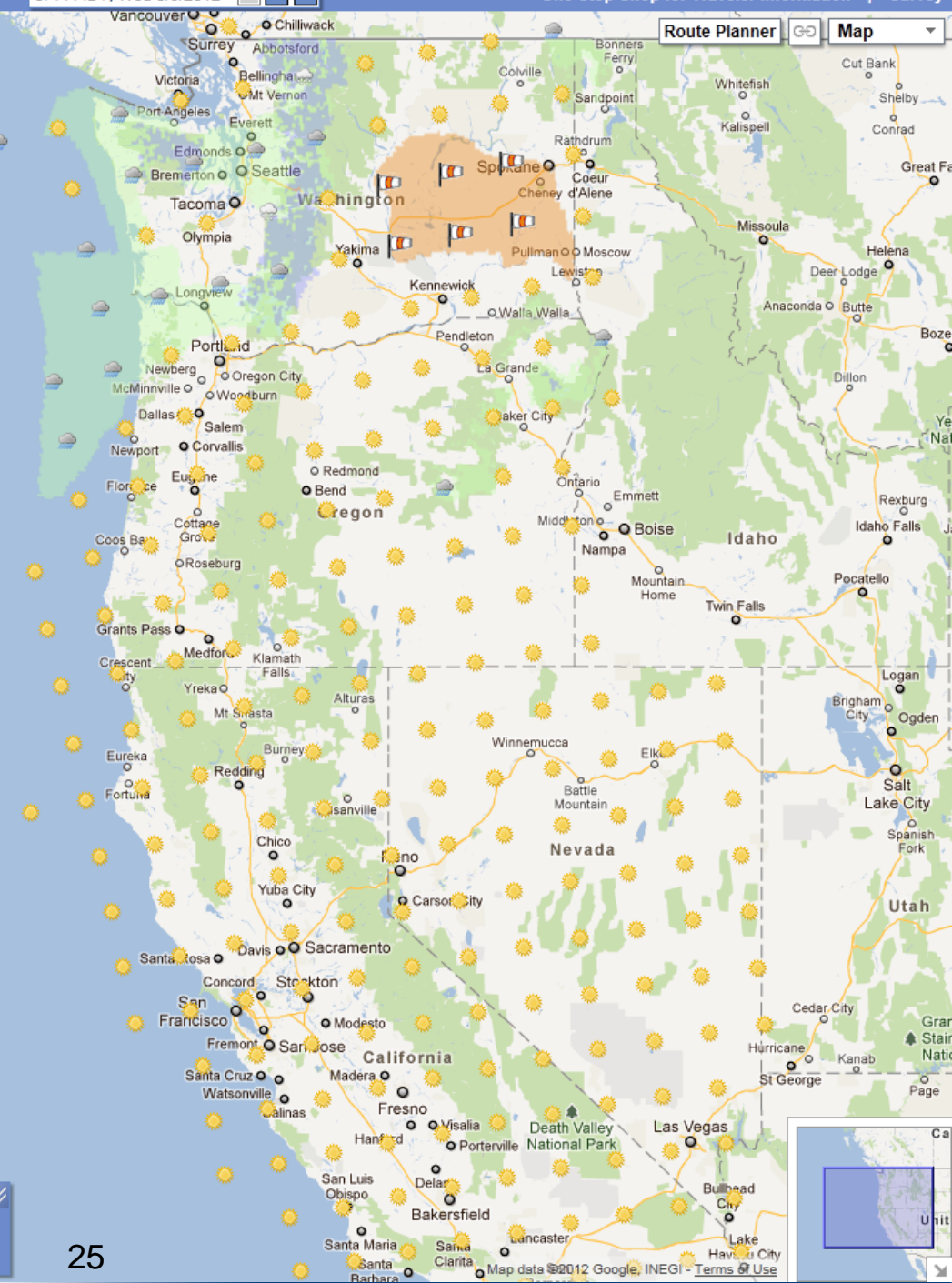
Current Wind





- Air Temperature
- Wind Speed
- Wind Gust Speed
- Humidity
- Sky Cover
- 12-Hour Chance of Precipitation
- 6-Hour Precipitation
- Snow
- Weather**

Route Planner Map



Weather Forecast

Legend: Weather

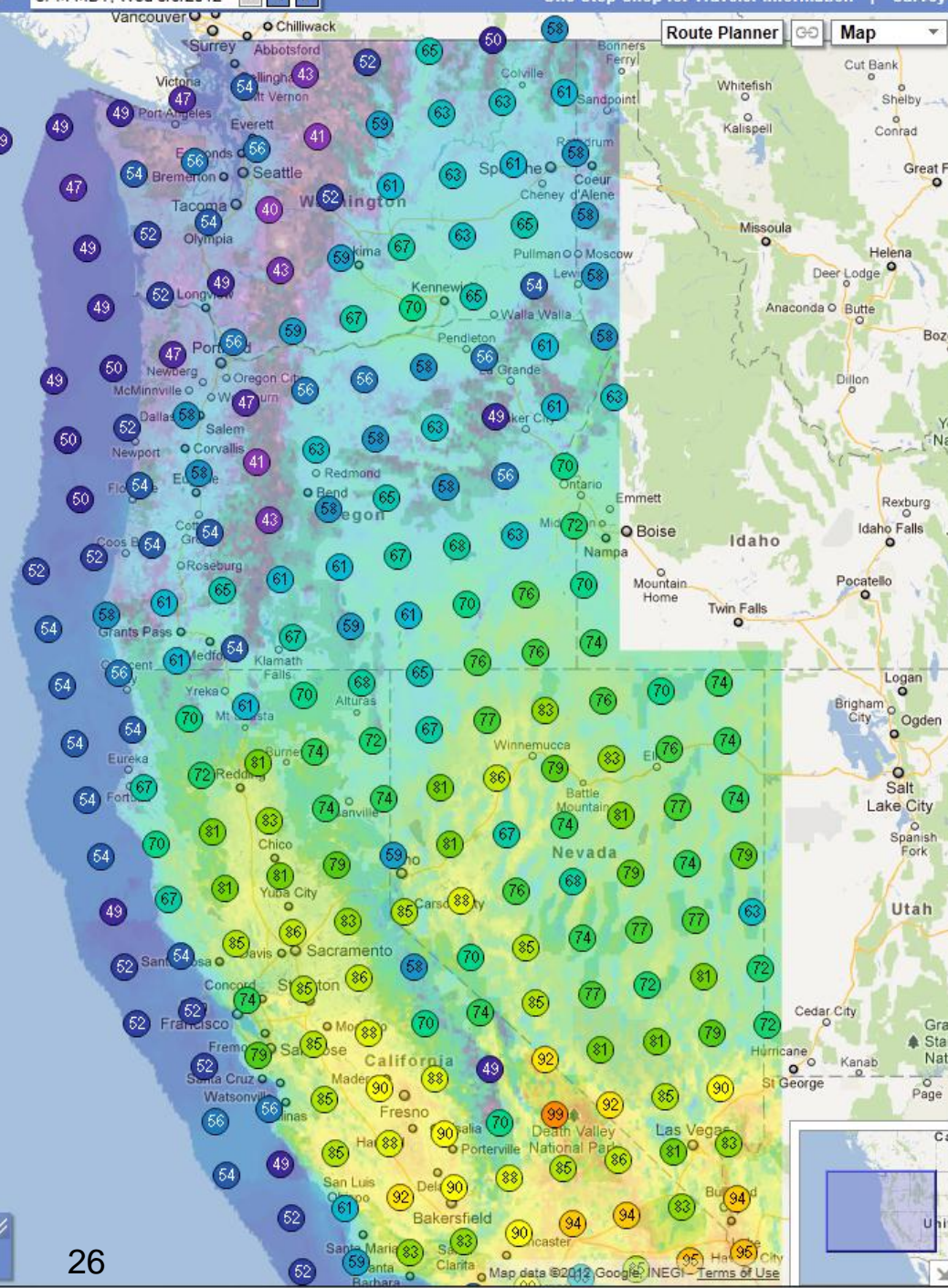
Fog	Rain	Snow	Severe	Mix	Haze	Blowing	Ice	None



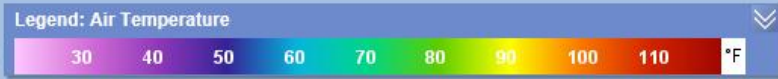


- Air Temperature
- Wind Speed
- Wind Gust Speed
- Humidity
- Sky Cover
- 12-Hour Chance of Precipitation
- 6-Hour Precipitation
- Snow
- Weather

Route Planner Map



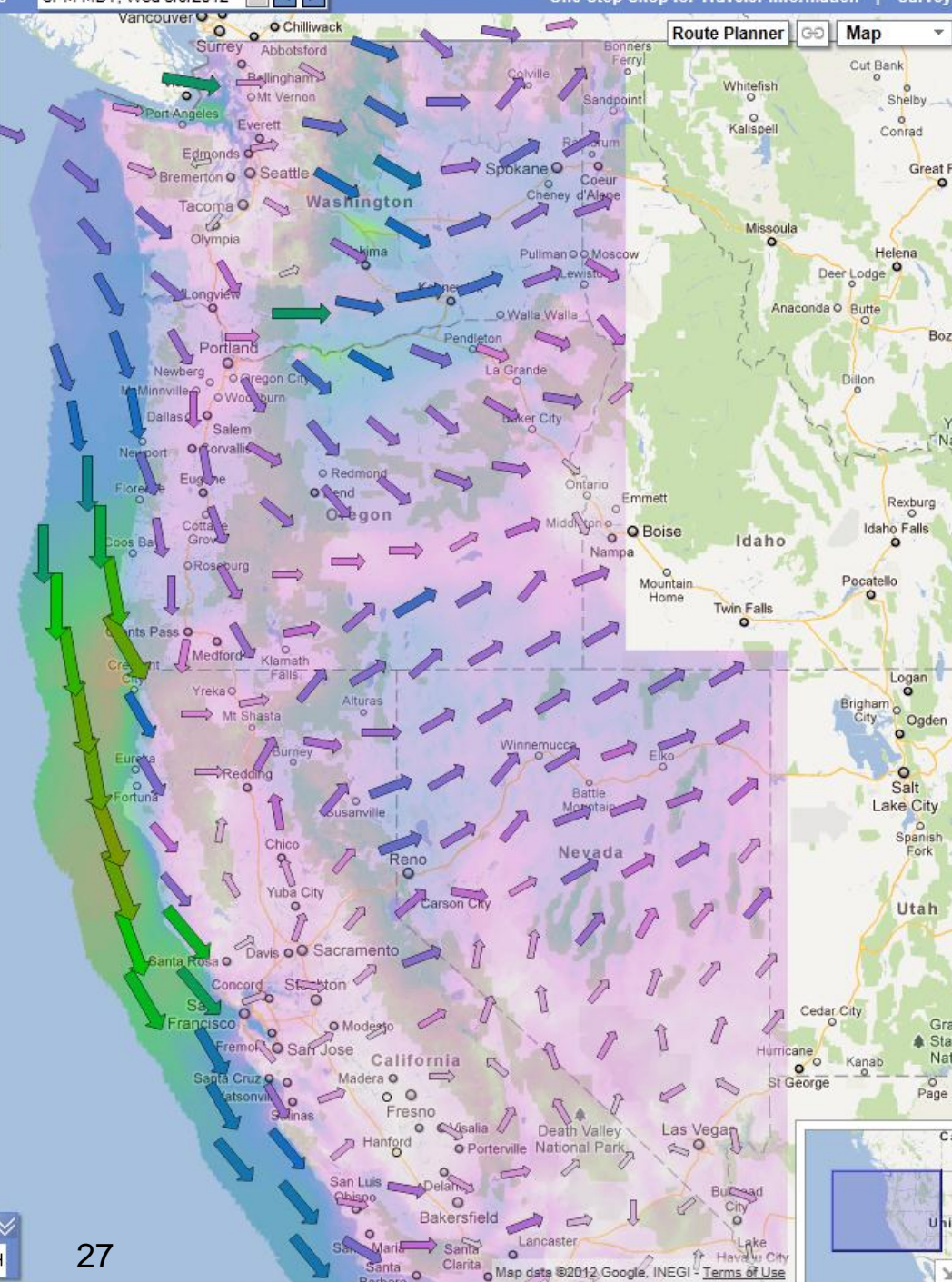
Air Temperature Forecast





- Air Temperature
- Wind Speed
- Wind Gust Speed
- Humidity
- Sky Cover
- 12-Hour Chance of Precipitation
- 6-Hour Precipitation
- Snow
- Weather

Route Planner Map



Wind Forecast

Legend: Wind Speed

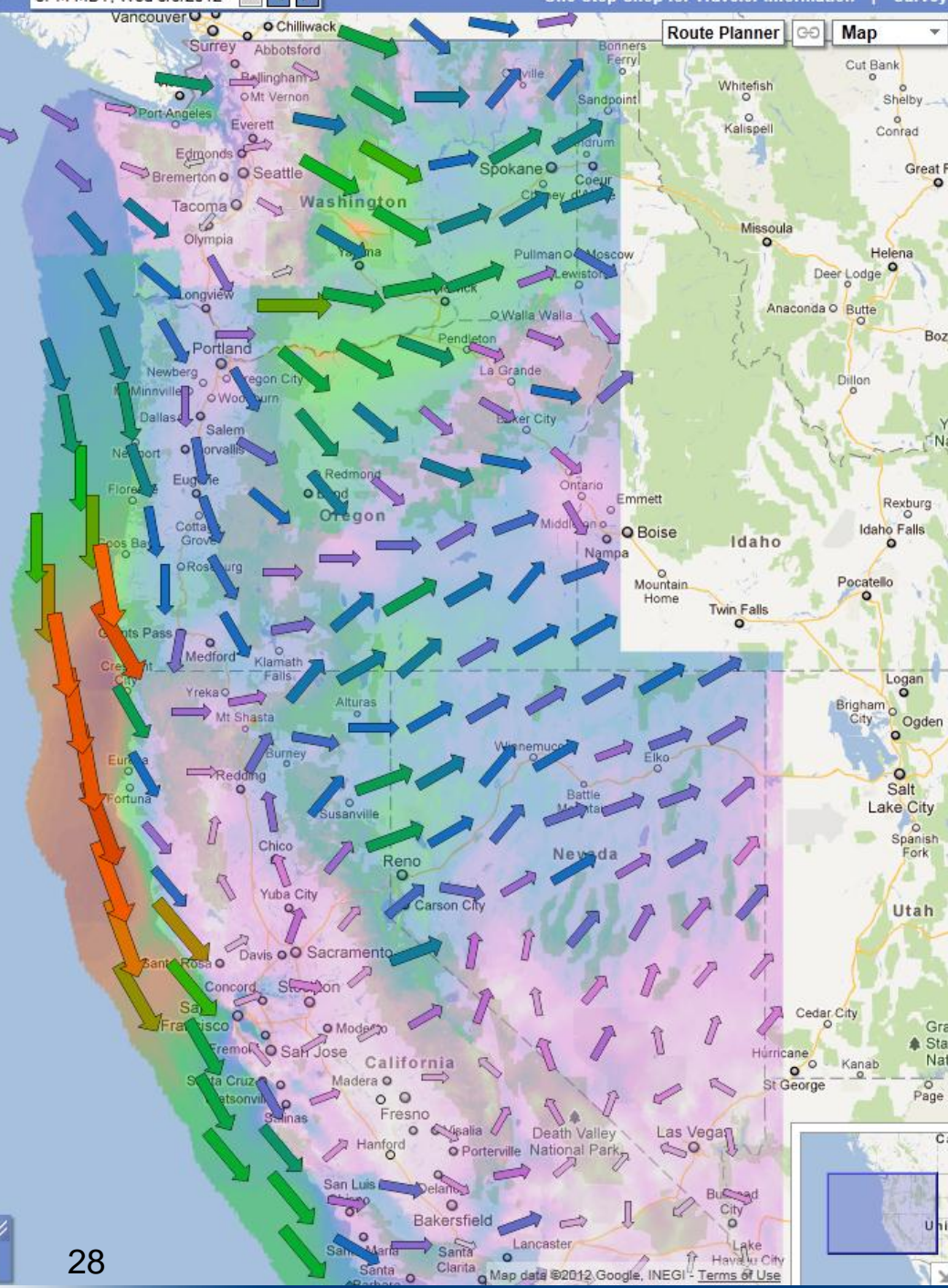
10	20	30	40	MPH
----	----	----	----	-----



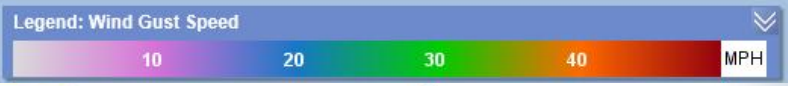


- Air Temperature
- Wind Speed
- Wind Gust Speed
- Humidity
- Sky Cover
- 12-Hour Chance of Precipitation
- 6-Hour Precipitation
- Snow
- Weather

Route Planner Map



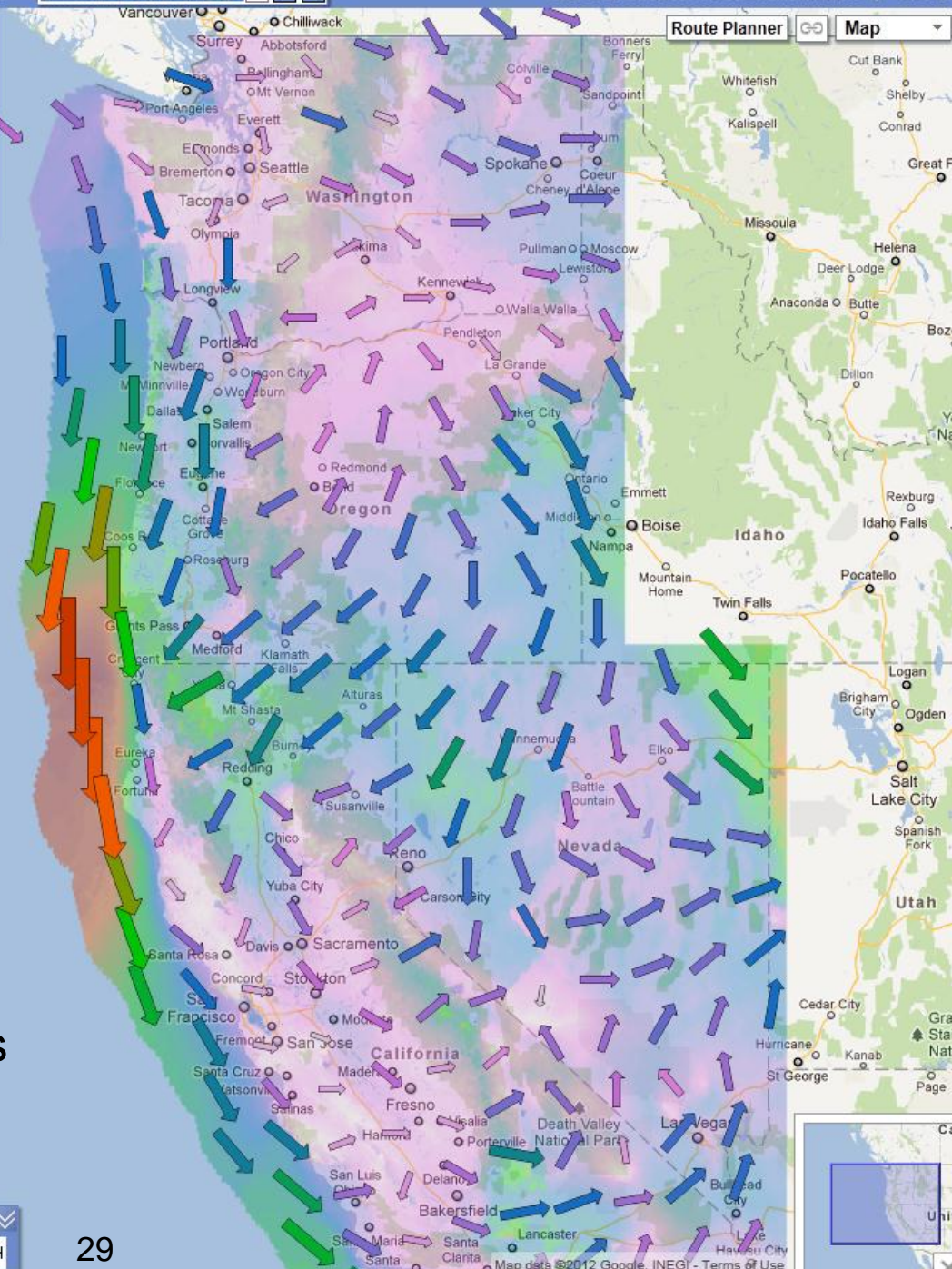
Wind Gust Forecast





- Air Temperature
- Wind Speed
- Wind Gust Speed
- Humidity
- Sky Cover
- 12-Hour Chance of Precipitation
- 6-Hour Precipitation
- Snow
- Weather

Route Planner Map



Forecasts Available for up to 3 Days

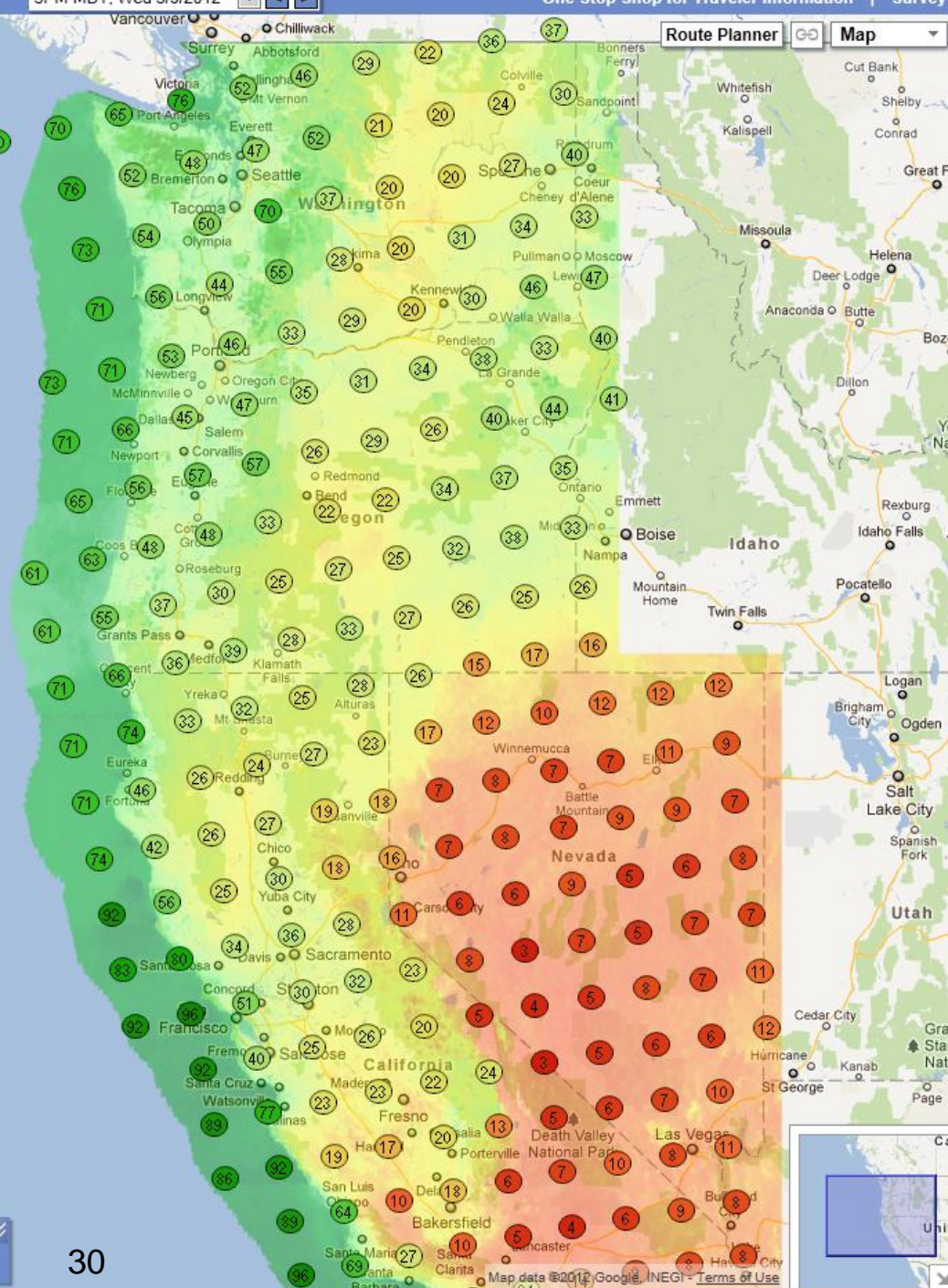
Legend: Wind Gust Speed

10	20	30	40	MPH
----	----	----	----	-----

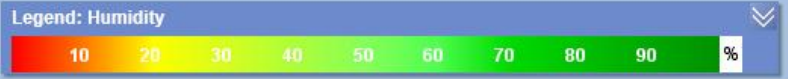


- Air Temperature
- Wind Speed
- Wind Gust Speed
- Humidity
- Sky Cover
- 12-Hour Chance of Precipitation
- 6-Hour Precipitation
- Snow
- Weather

Route Planner Map



Humidity Forecast

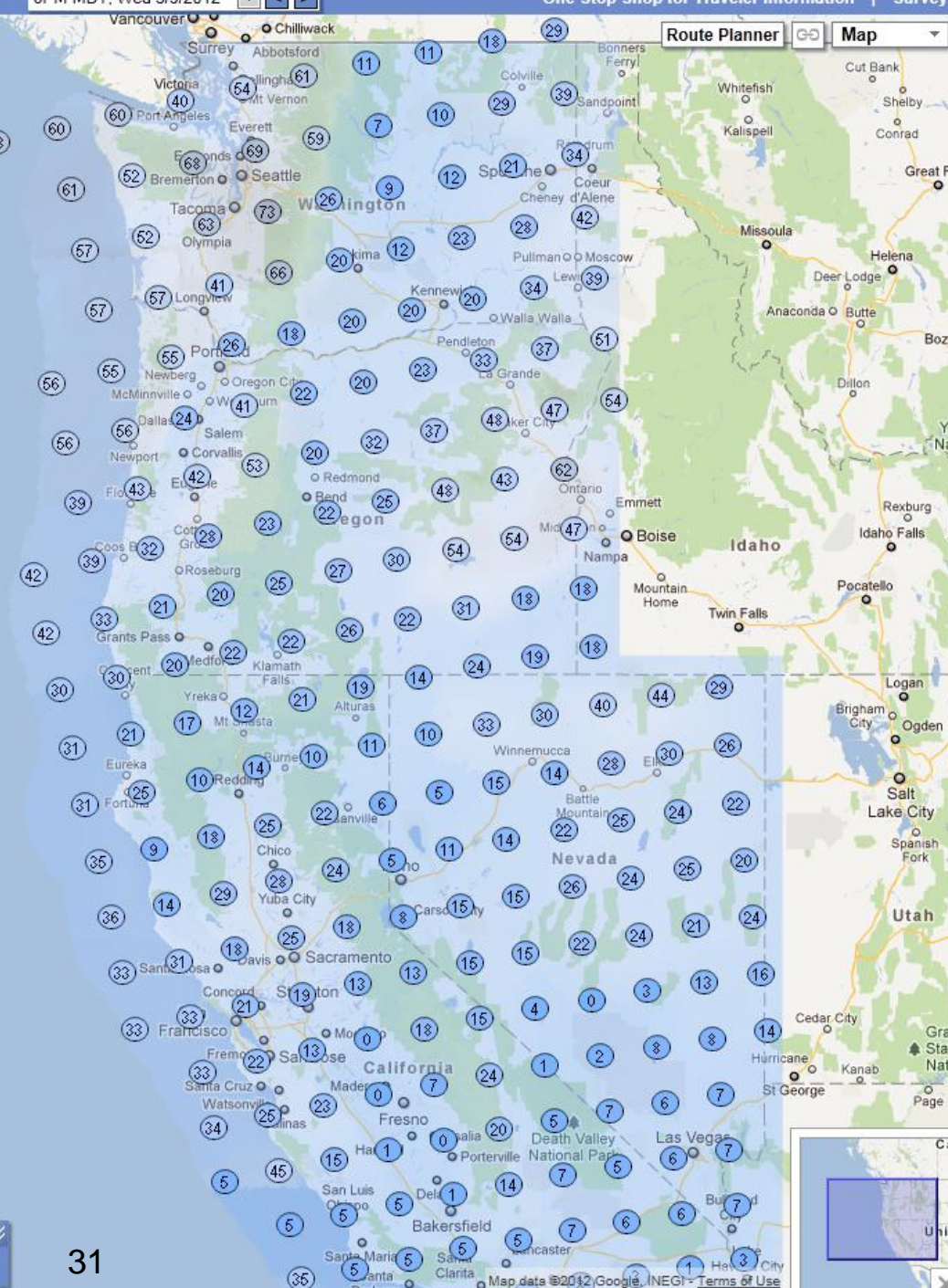


30



- Air Temperature
- Wind Speed
- Wind Gust Speed
- Humidity
- Sky Cover
- 12-Hour Chance of Precipitation
- 6-Hour Precipitation
- Snow
- Weather

Route Planner Map



Sky Cover Forecast



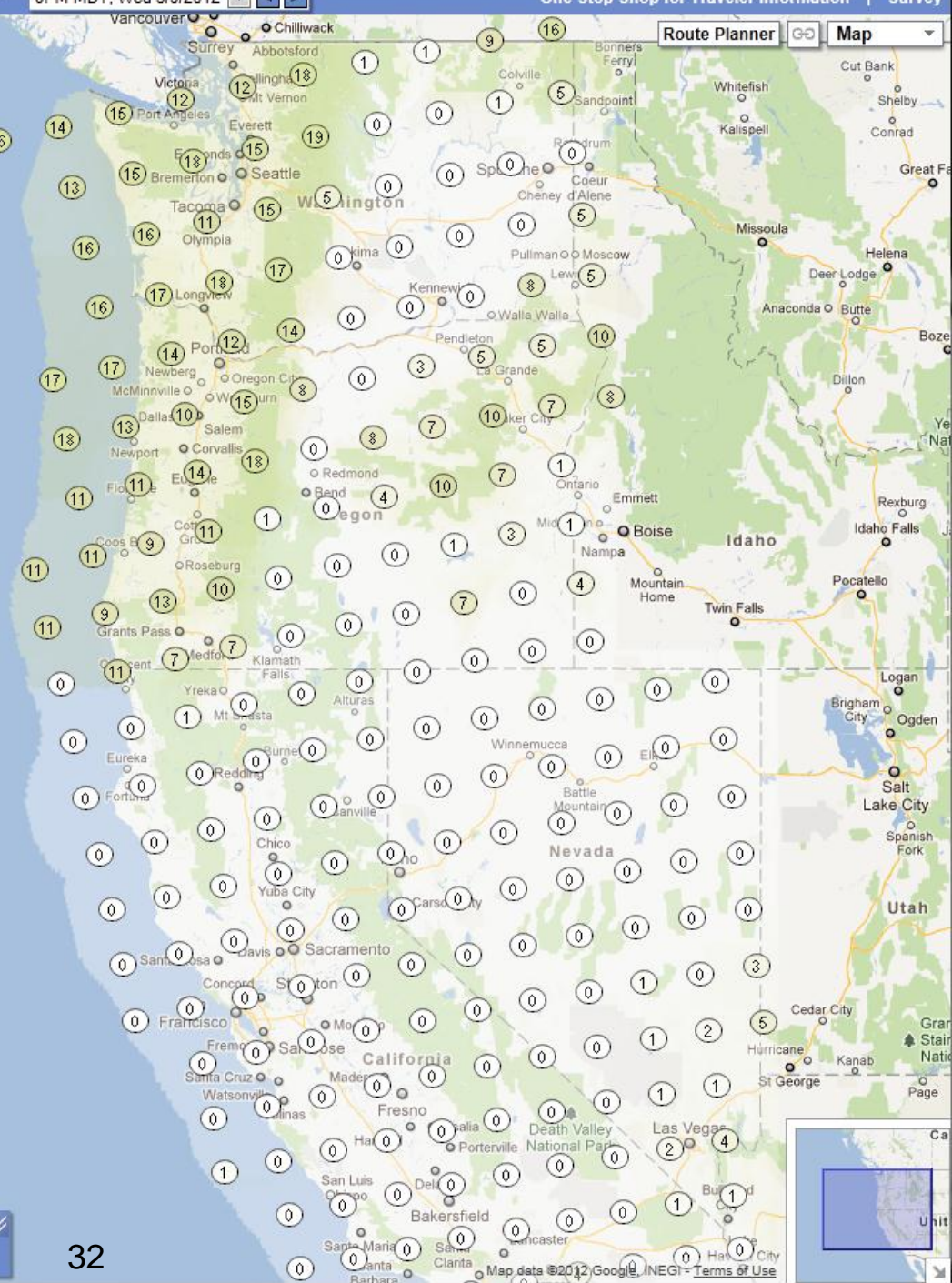
31





- Air Temperature
- Wind Speed
- Wind Gust Speed
- Humidity
- Sky Cover
- 12-Hour Chance of Precipitation
- 6-Hour Precipitation
- Snow
- Weather

Route Planner Map

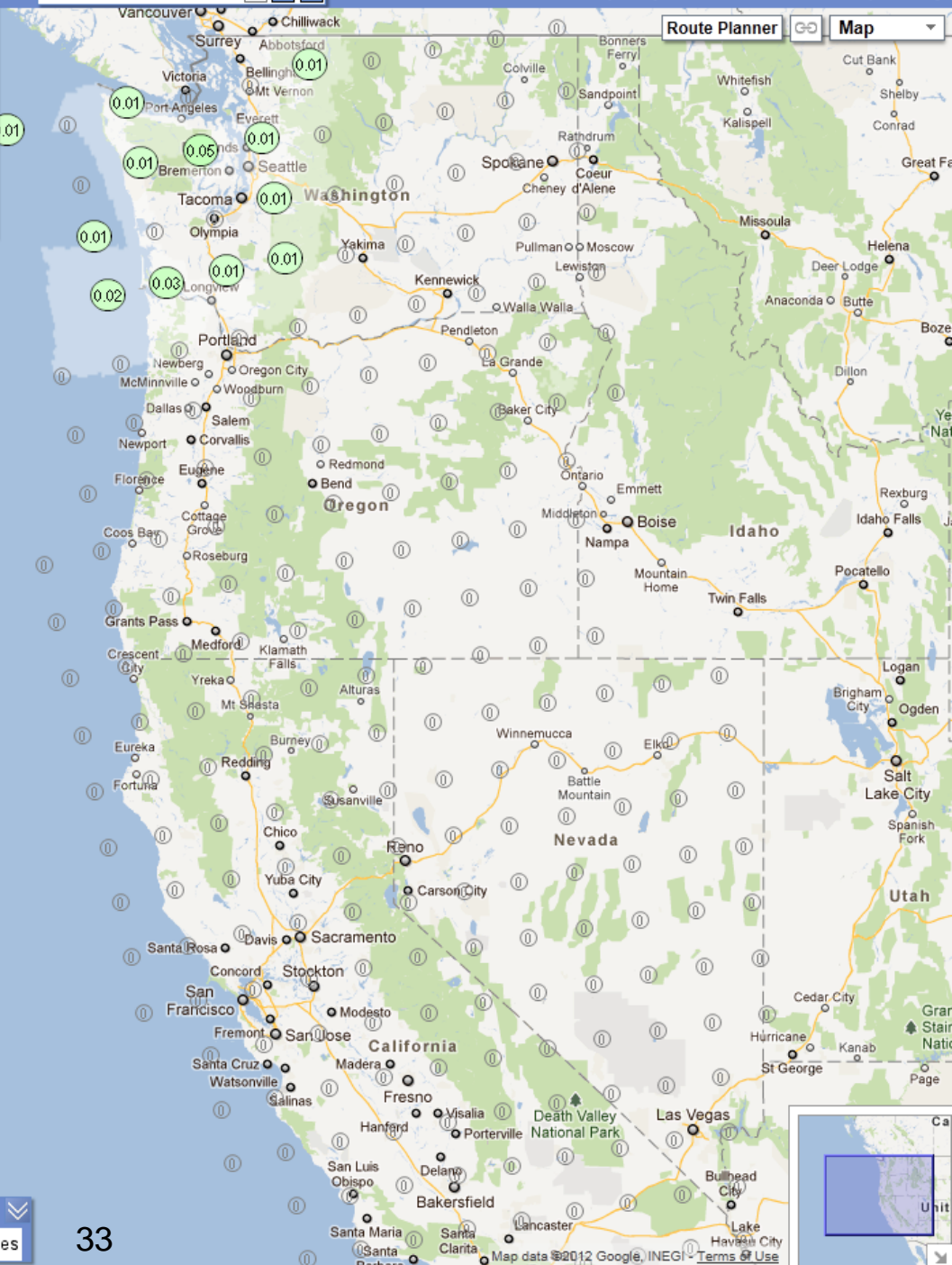


12-Hour Chance of Precipitation Forecast





- Air Temperature
- Wind Speed
- Wind Gust Speed
- Humidity
- Sky Cover
- 12-Hour Chance of Precipitation
- 6-Hour Precipitation
- Snow
- Weather



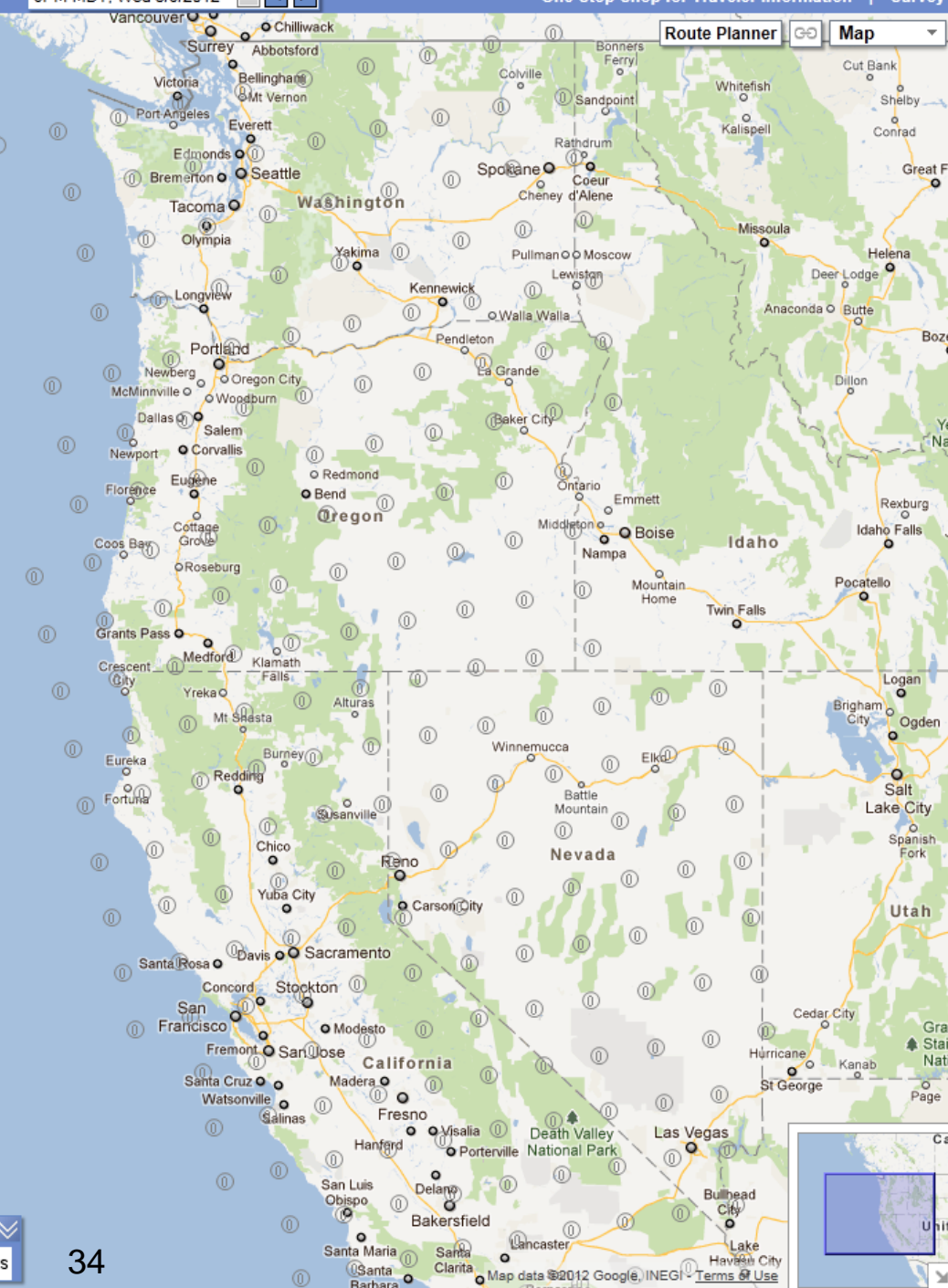
6-Hour Quantitative Precipitation Amount Forecast



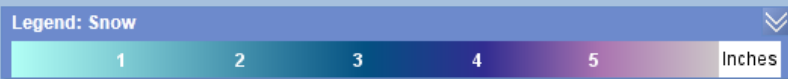


- Air Temperature
- Wind Speed
- Wind Gust Speed
- Humidity
- Sky Cover
- 12-Hour Chance of Precipitation
- 6-Hour Precipitation
- Snow
- Weather

Route Planner Map



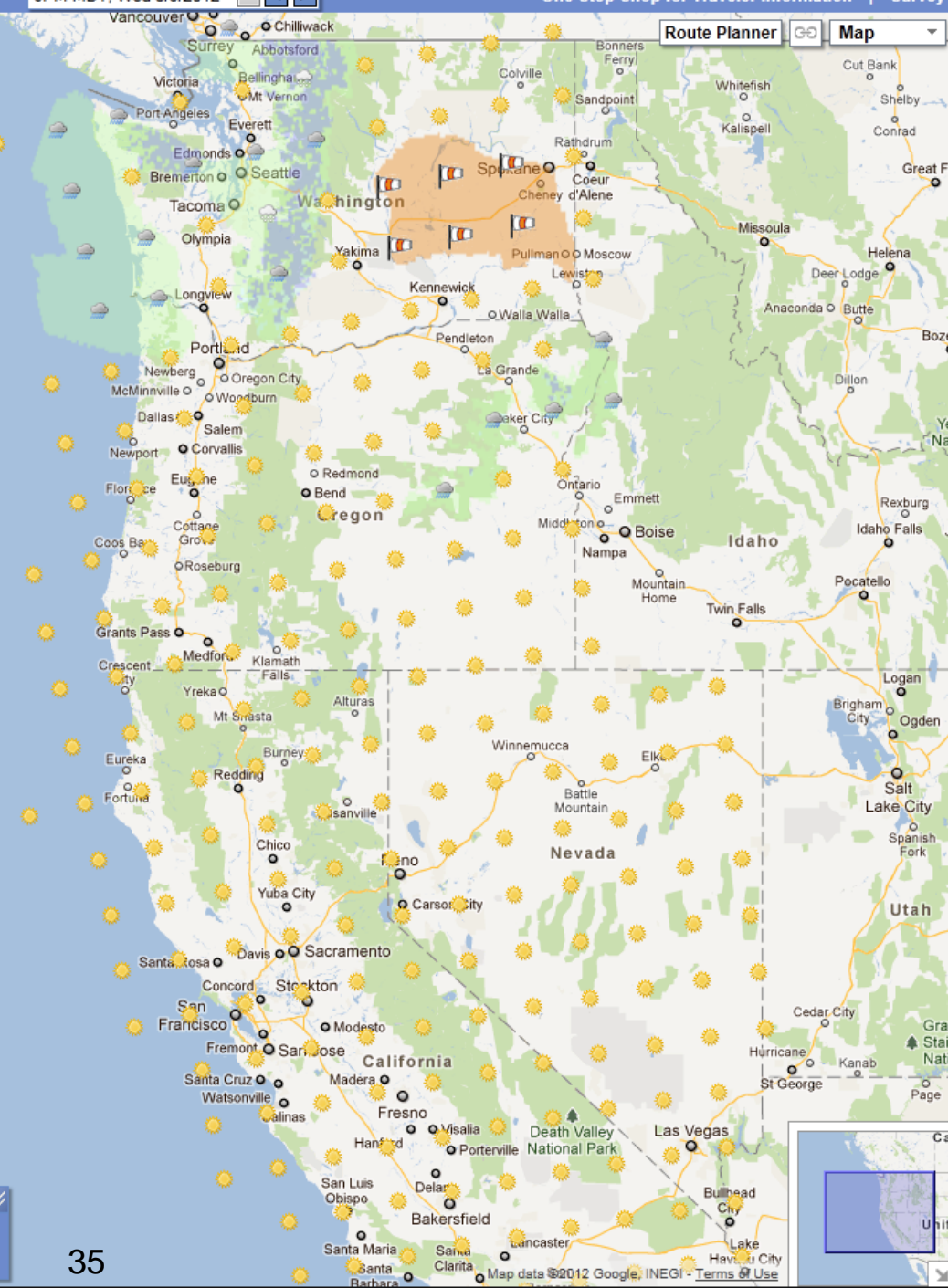
6-Hour Snow Forecast





- Air Temperature
- Wind Speed
- Wind Gust Speed
- Humidity
- Sky Cover
- 12-Hour Chance of Precipitation
- 6-Hour Precipitation
- Snow
- Weather

Route Planner Map



Weather Forecast

Legend: Weather

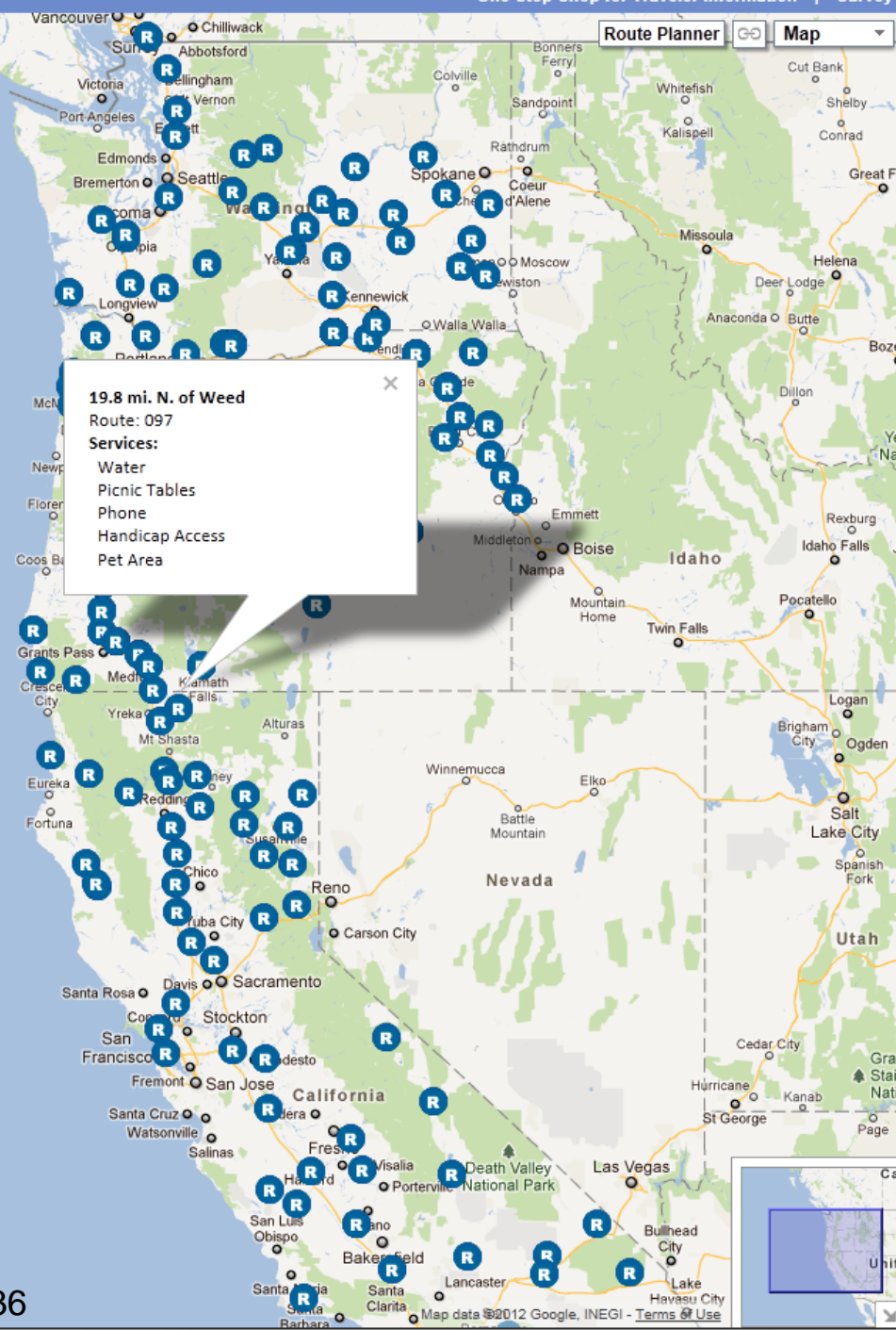
Fog	Rain	Snow	Severe	Mix	Haze	Blowing	Ice	None





- Rest Areas
- Features of Interest
- Truck Scales
- Summit Locations

Route Planner Map



Rest Areas

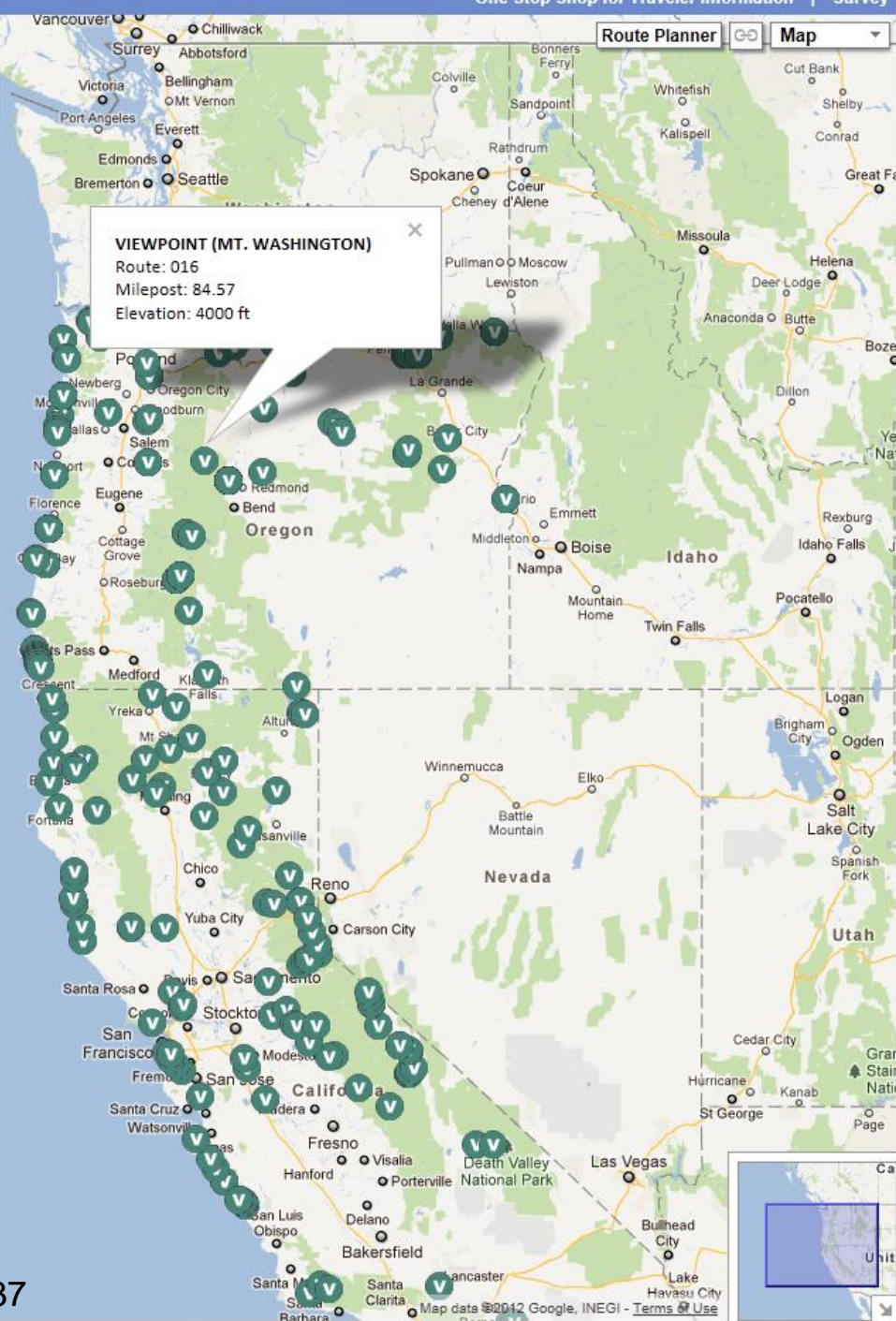
Legend: Rest Areas

Rest Area Location





- Rest Areas
- Features of Interest
- Truck Scales
- Summit Locations



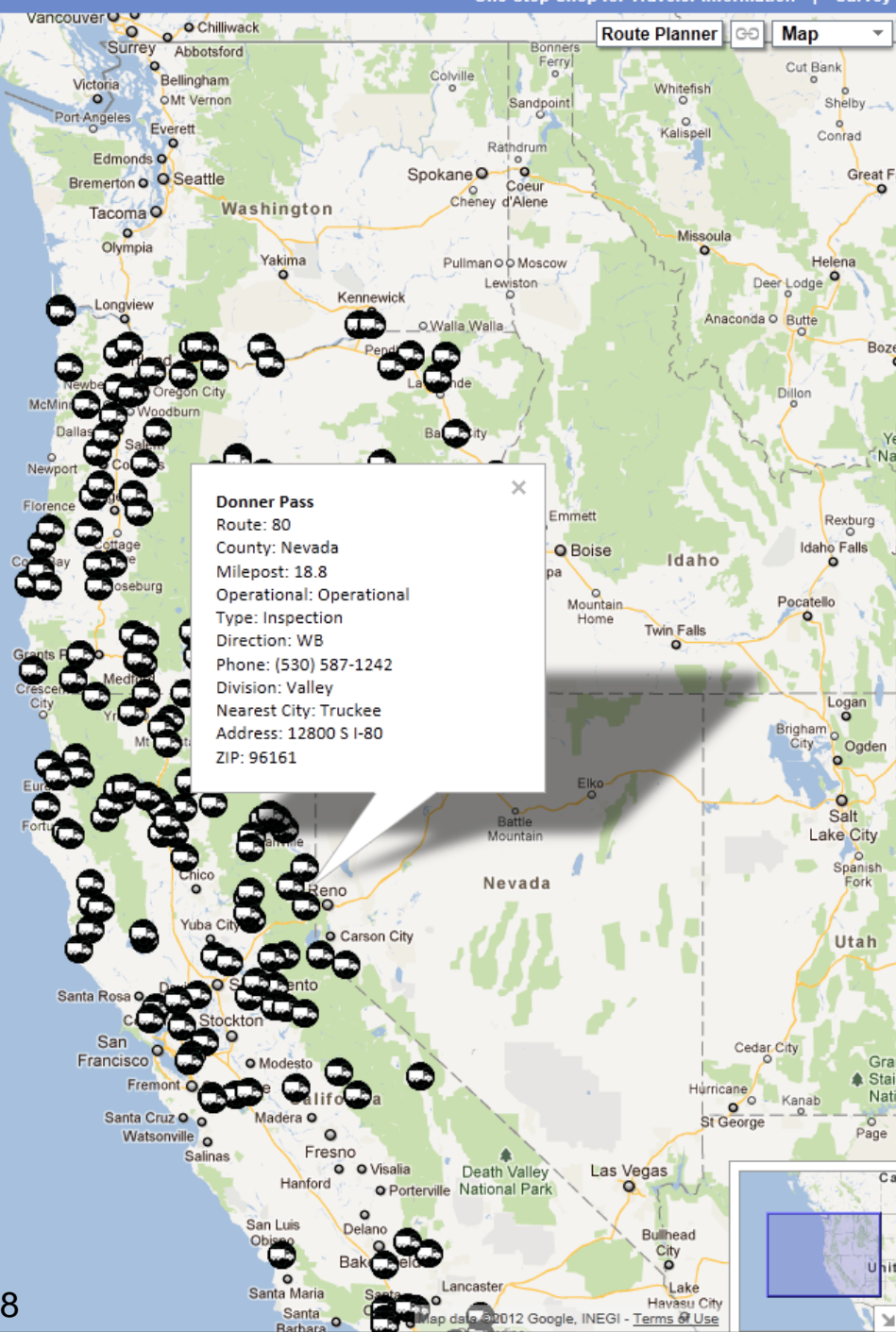
Features of Interest

Legend: Features of Interest

- Vista Location



- Rest Areas
- Features of Interest
- Truck Scales
- Summit Locations



Donner Pass
 Route: 80
 County: Nevada
 Milepost: 18.8
 Operational: Operational
 Type: Inspection
 Direction: WB
 Phone: (530) 587-1242
 Division: Valley
 Nearest City: Truckee
 Address: 12800 S I-80
 ZIP: 96161

Truck Scales

Legend: Truck Scales

Truck Scales Location



- Rest Areas
- Features of Interest
- Truck Scales
- Summit Locations

Route Planner Map

Snoqualmie Pass I-90
Elevation: 3022 ft

Summit Locations

Legend: Summit Locations

- Summit Location





Route Planner

Start: Redding, CA Show Reference Points on Map

End: Medford, OR

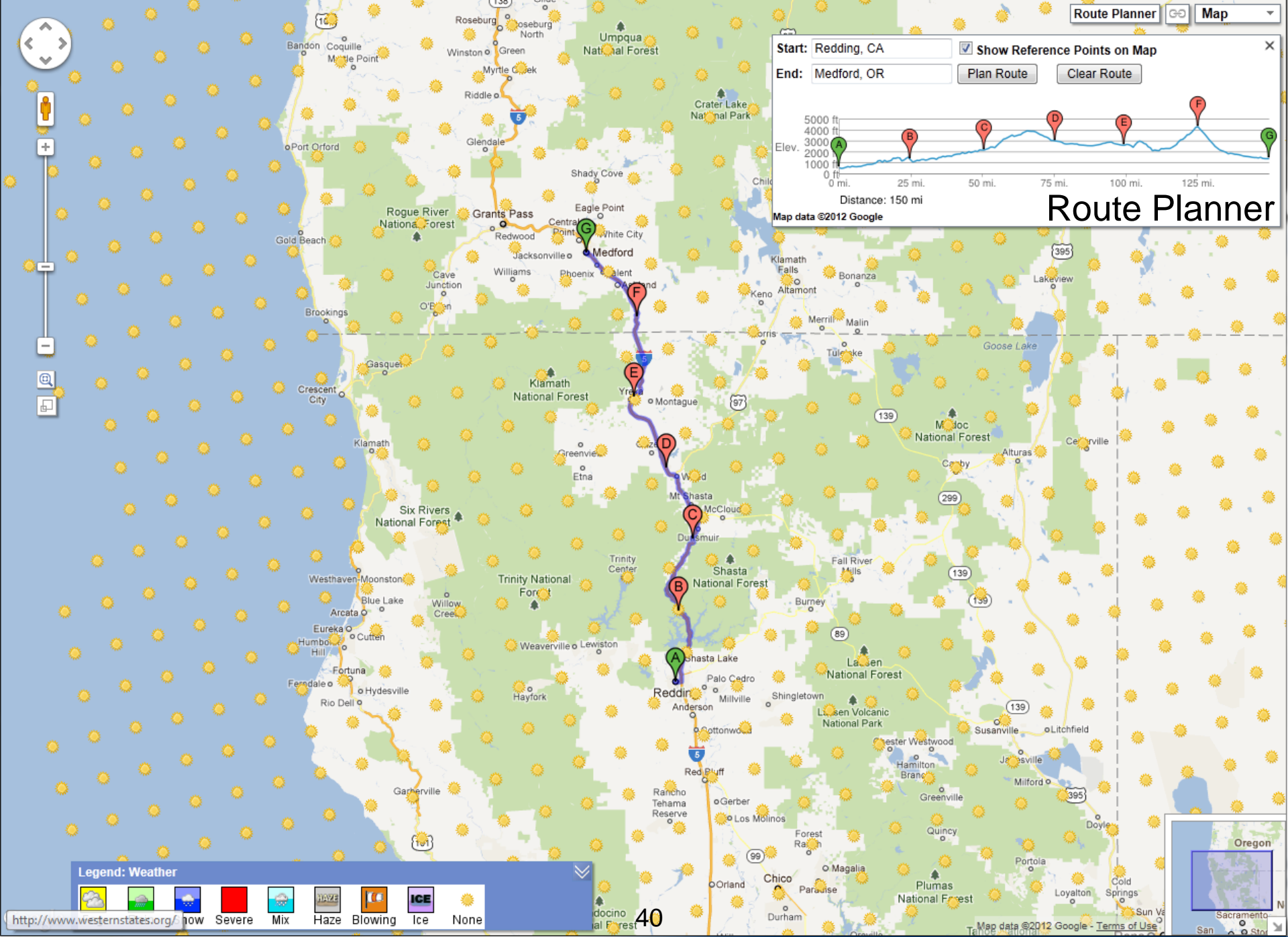
Elev. 5000 ft 4000 ft 3000 ft 2000 ft 1000 ft 0 ft

0 mi. 25 mi. 50 mi. 75 mi. 100 mi. 125 mi.

Distance: 150 mi

Map data ©2012 Google

Route Planner



Legend: Weather





- Check/Uncheck All
- Chain Requirements
 - Road Information
 - Incidents
 - CMS
 - CCTV
 - RWIS
 - Traffic Conditions

Siskiyou I-5 NB at Exit 1

Siskiyou I-5 NB at Exit 1
Updated: May 09 2012 2:20 PM Looking North

ODOT
Elevation 3530 TripCheck.com Milepost 1.00

Start: Show Reference Points on Map

End:

Map data ©2012 Google

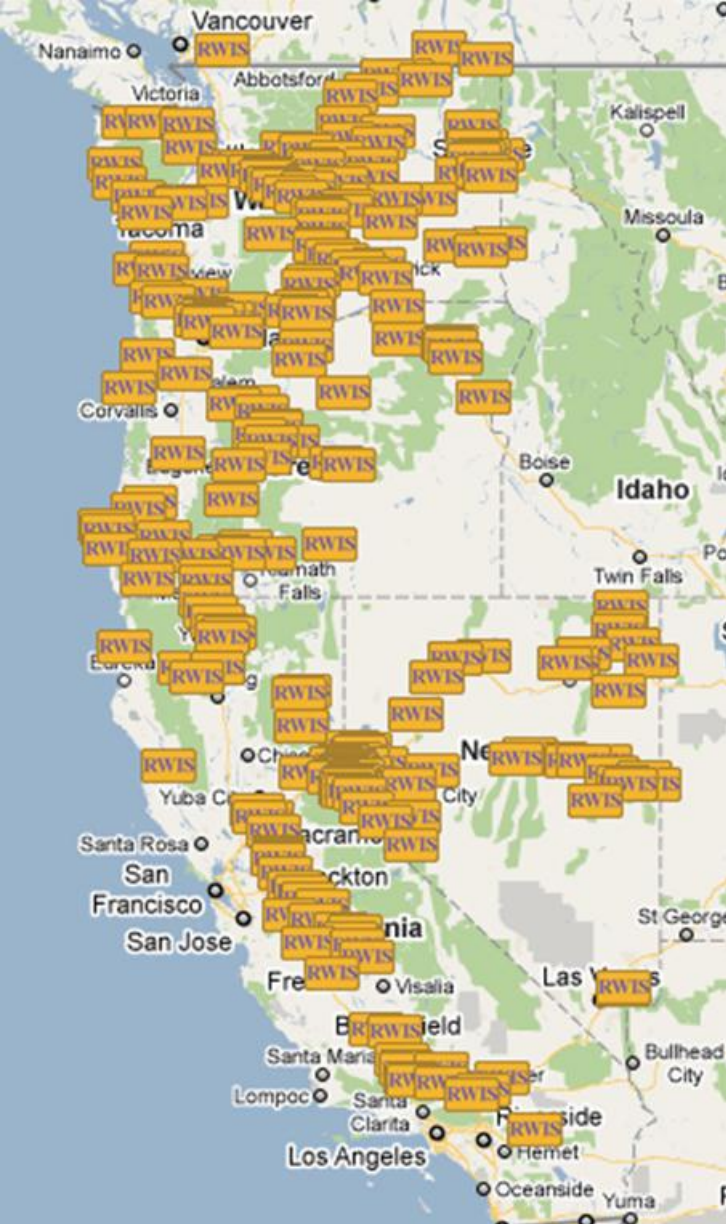
Route Planner

Legend: Road Information, CCTV

Active CMS	CCTV Camera	Construction	Information	RWIS with Road Temp ≤ 32°
Inactive CMS	Chain Restriction	Incident	Commercial Vehicle Information	RWIS

41





Station ID: 3048

Elevation: 1611 m

Source: CA State DOT

essRelativeHumidity	45.000 %	8:26 AM MDT - Thu, Jun 9 2011
essDewpointTemp	26.600 F	8:26 AM MDT - Thu, Jun 9 2011
precipType	1.000	8:26 AM MDT - Thu, Jun 9 2011
windSensorAvgSpeed	1.243 mph	8:26 AM MDT - Thu, Jun 9 2011
essSubSurfaceTemperature	61.160 F	8:26 AM MDT - Thu, Jun 9 2011
windSensorAvgDirection	75.000 deg	8:26 AM MDT - Thu, Jun 9 2011
windSensorGustDirection	68.000 deg	8:26 AM MDT - Thu, Jun 9 2011
essAirTemperature	46.400 F	8:26 AM MDT - Thu, Jun 9 2011
essSurfaceStatus	3.000	8:26 AM MDT - Thu, Jun 9 2011
essSurfaceTemperature	56.300 F	8:26 AM MDT - Thu, Jun 9 2011
precipIntensity	1.000	8:26 AM MDT - Thu, Jun 9 2011
windSensorGustSpeed	1.243 mph	8:26 AM MDT - Thu, Jun 9 2011

Clarus OSS (OSS 1.5)

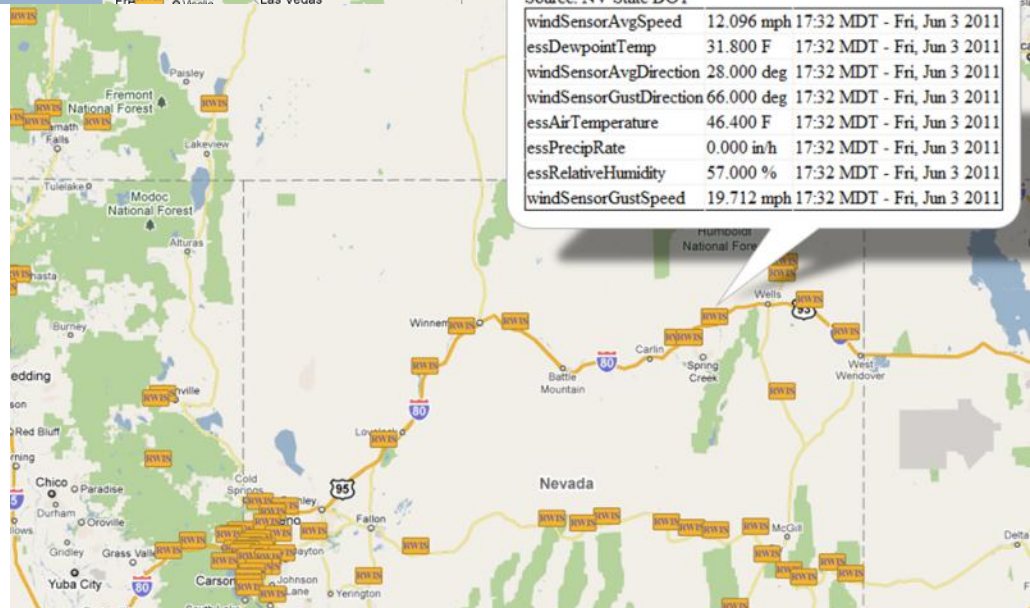


Station ID: 5762

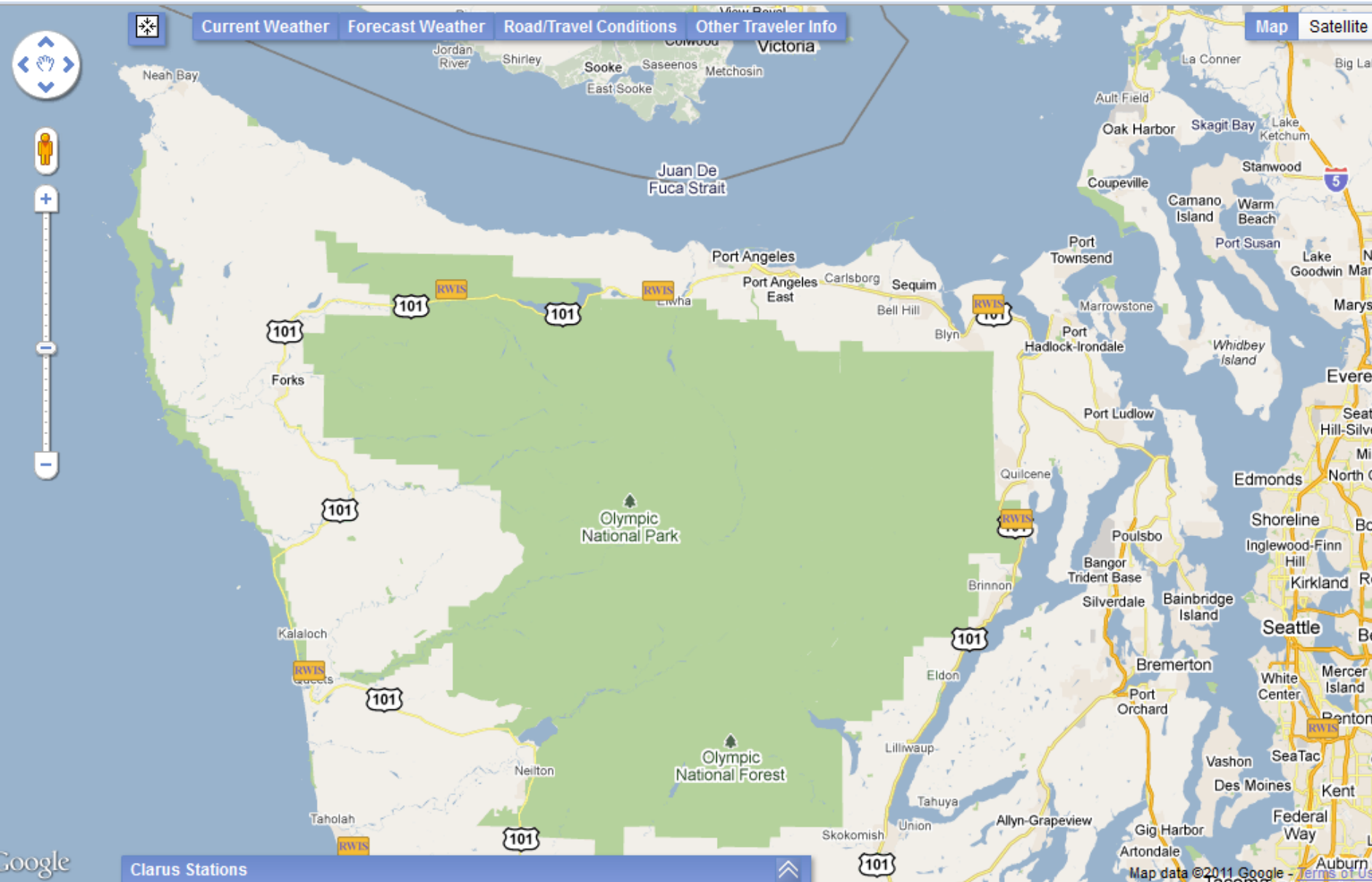
Elevation: 1624 m

Source: NV State DOT

windSensorAvgSpeed	12.096 mph	17:32 MDT - Fri, Jun 3 2011
essDewpointTemp	31.800 F	17:32 MDT - Fri, Jun 3 2011
windSensorAvgDirection	28.000 deg	17:32 MDT - Fri, Jun 3 2011
windSensorGustDirection	66.000 deg	17:32 MDT - Fri, Jun 3 2011
essAirTemperature	46.400 F	17:32 MDT - Fri, Jun 3 2011
essPrecipRate	0.000 in/h	17:32 MDT - Fri, Jun 3 2011
essRelativeHumidity	57.000 %	17:32 MDT - Fri, Jun 3 2011
windSensorGustSpeed	19.712 mph	17:32 MDT - Fri, Jun 3 2011



RWIS Sites

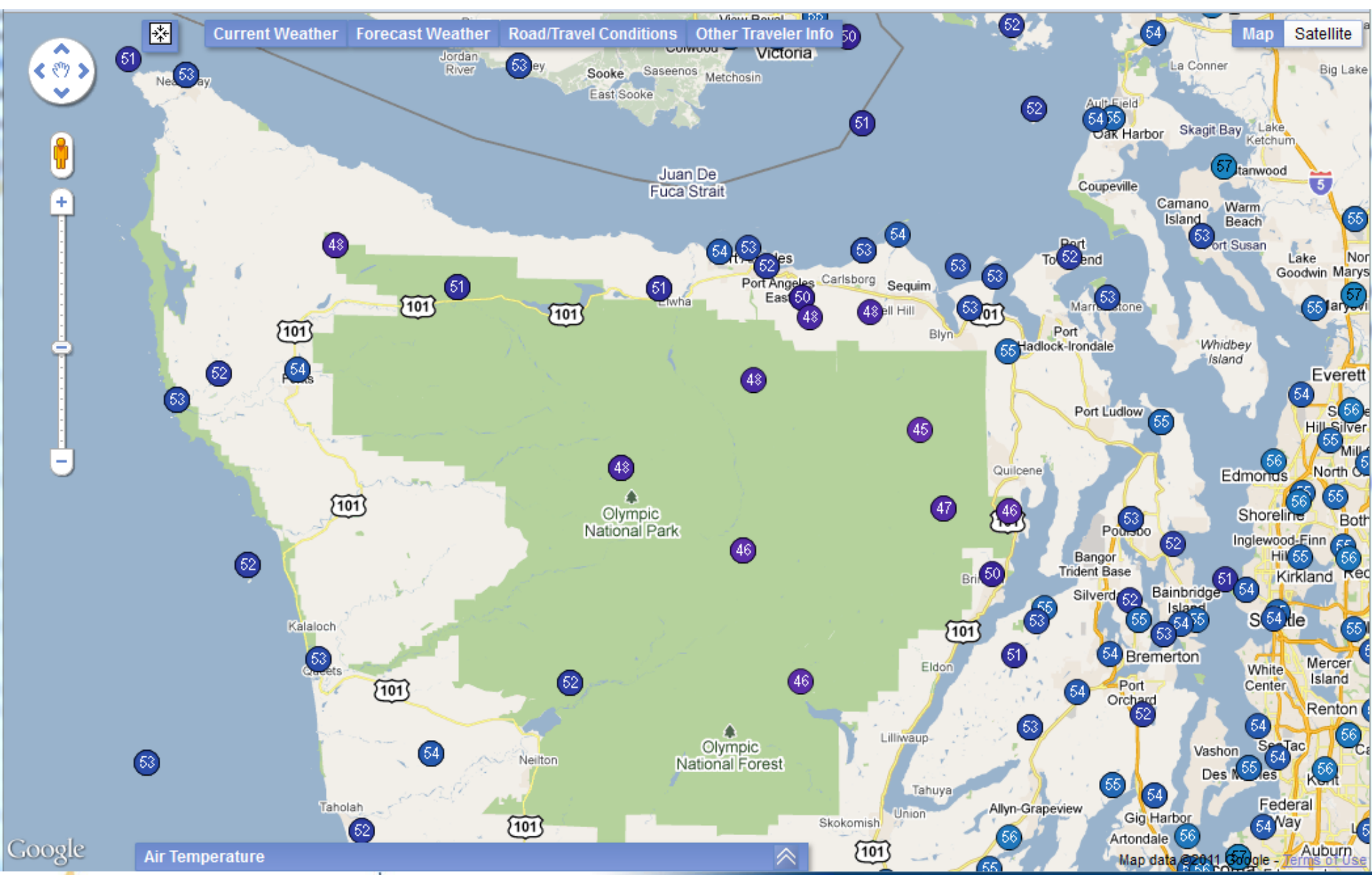


Google

Clarus Stations

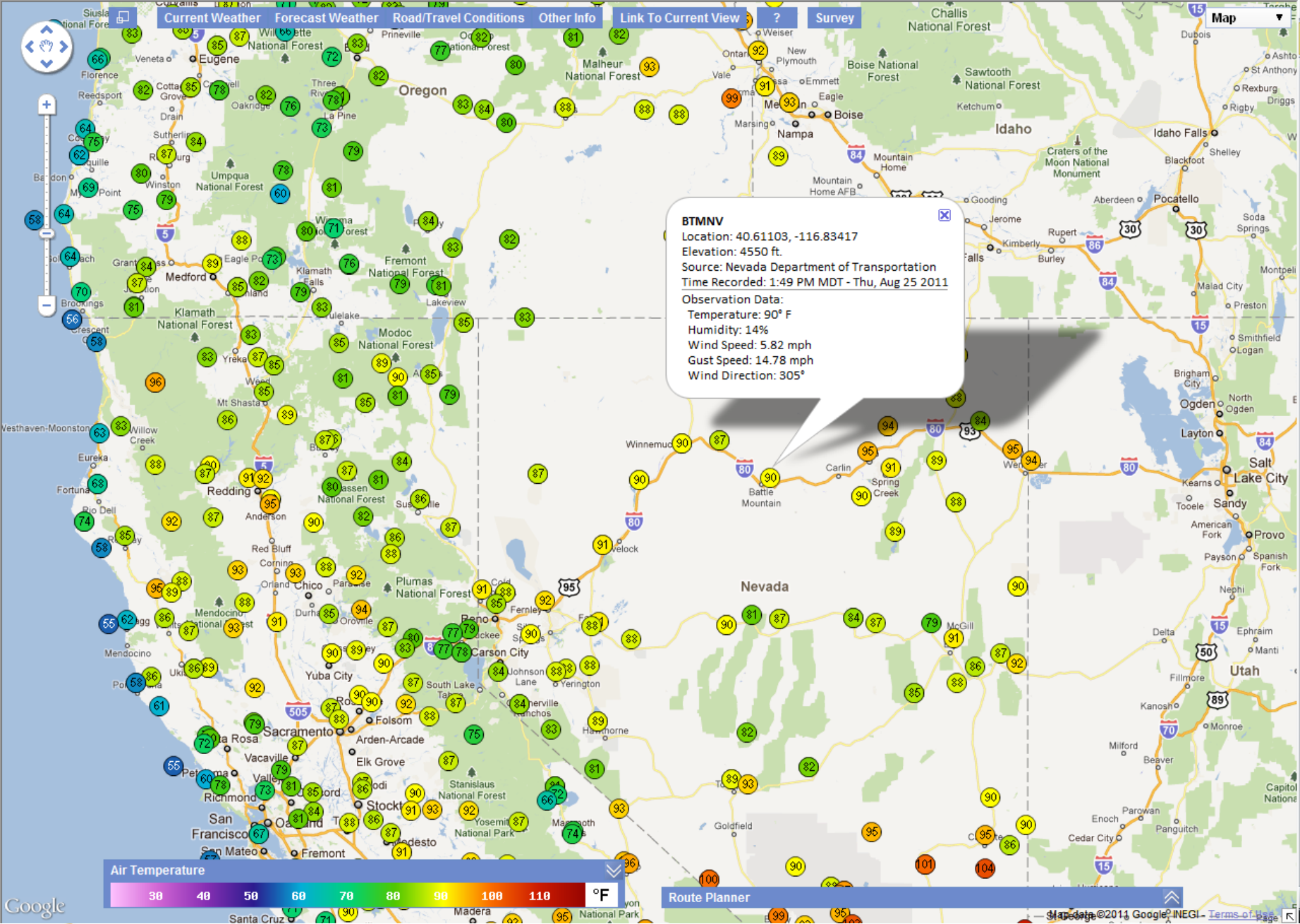
Map data ©2011 Google - Terms of Use

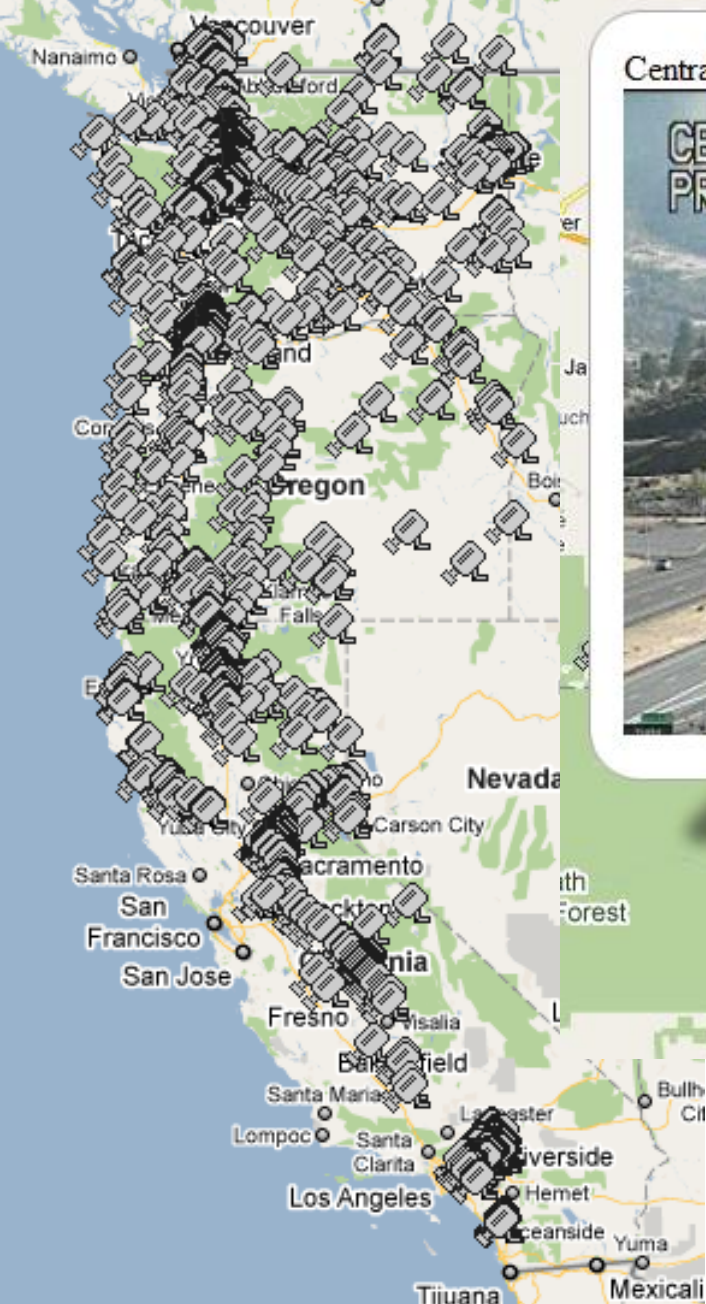
Other Weather Sensor Sites



Google

Air Temperature





Central Yreka



CCTV Images

I-5 at Exit 6 Near Siskiyou Summit

I-5 at Exit 6 Near Siskiyou Summit

Updated: Jun 09 2011 8:05 AM

Looking North



ODOT

Elevation 4100

TripCheck.com

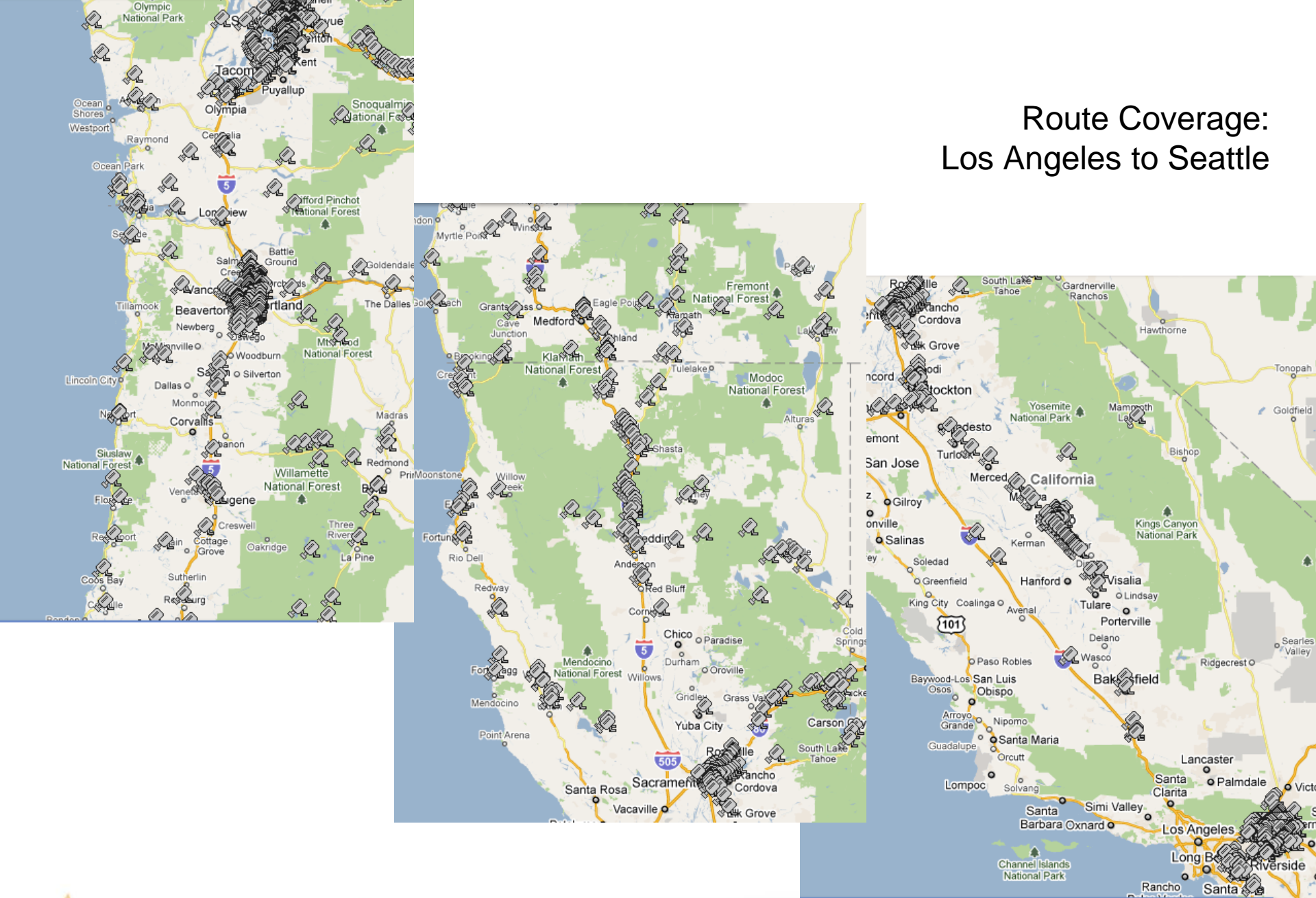
Milepost 5.00

Temperature 51.1F

Wind E

MPH 2

Route Coverage: Los Angeles to Seattle



CCTV Images convey a lot of information ...

I-5 at Siskiyou Summit
 Updated: Mar 03 2010 8:18 AM Looking North

ODOT
 Elevation 4310 TripCheck.com Milepost 4.00
 Temperature 28.8F Wind NE MPH 1

HILT SANDHOUSE PRESET 6

ODOT

US20 at Tombstone
 Updated: Jun 06 2011 9:01 AM Looking East

ODOT
 Elevation 4252 TripCheck.com Milepost 63.64
 Temperature 42.8F Wind SE MPH 0

Snoqualmie Summit on I-90 @ MP52
 Snoqualmie Summit on I-90 @ MP52 WSDOT

Mon Jun 6, 2011 7:50 AM PDT

US20 at Santiam Jct
 Updated: Jun 06 2011 9:05 AM Looking East

ODOT
 Elevation 3839 TripCheck.com Milepost 74.80

Price Creek on I-90 @ MP61
 Price Creek on I-90 @ MP61 WSDOT

Mon Jun 6, 2011 7:51 AM PDT



Current Weather Forecast Weather Road/Travel Conditions Other Traveler Info

Map Satellite



ific

Google

CMS

Map data ©2011 Europa Technologies, Google, INEGI, LeadDog Consulting, San Antonio

8:01 AM MDT - Thu, Jun 9 2011

SNOW ZONE

10:24 AM MDT - Thu, Jun 9 2011

CAUTION ROADWORK
3 MILES AHEAD
NO SHOULDER

8:01 AM MDT - Thu, Jun 9 2011

ROAD CONSTRUCTION
REDUCED SPEED
3 MILES AHEAD

3:23 PM MDT - Wed, Jun 8 2011

TUKWILA	16	MIN
SEATTLE	49	MIN
BELLEVUE	47	MIN

WSDOT 006vm13939 Jun 9, 2011 8:41 AM

8:01 AM MDT - Thu, Jun 9 2011

CARRY CHAINS

8:01 AM MDT - Thu, Jun 9 2011

2-WAY TRAFFIC

10:19 AM MDT - Thu, Jun 9 2011

SHARP CURVES
STEEP GRADE

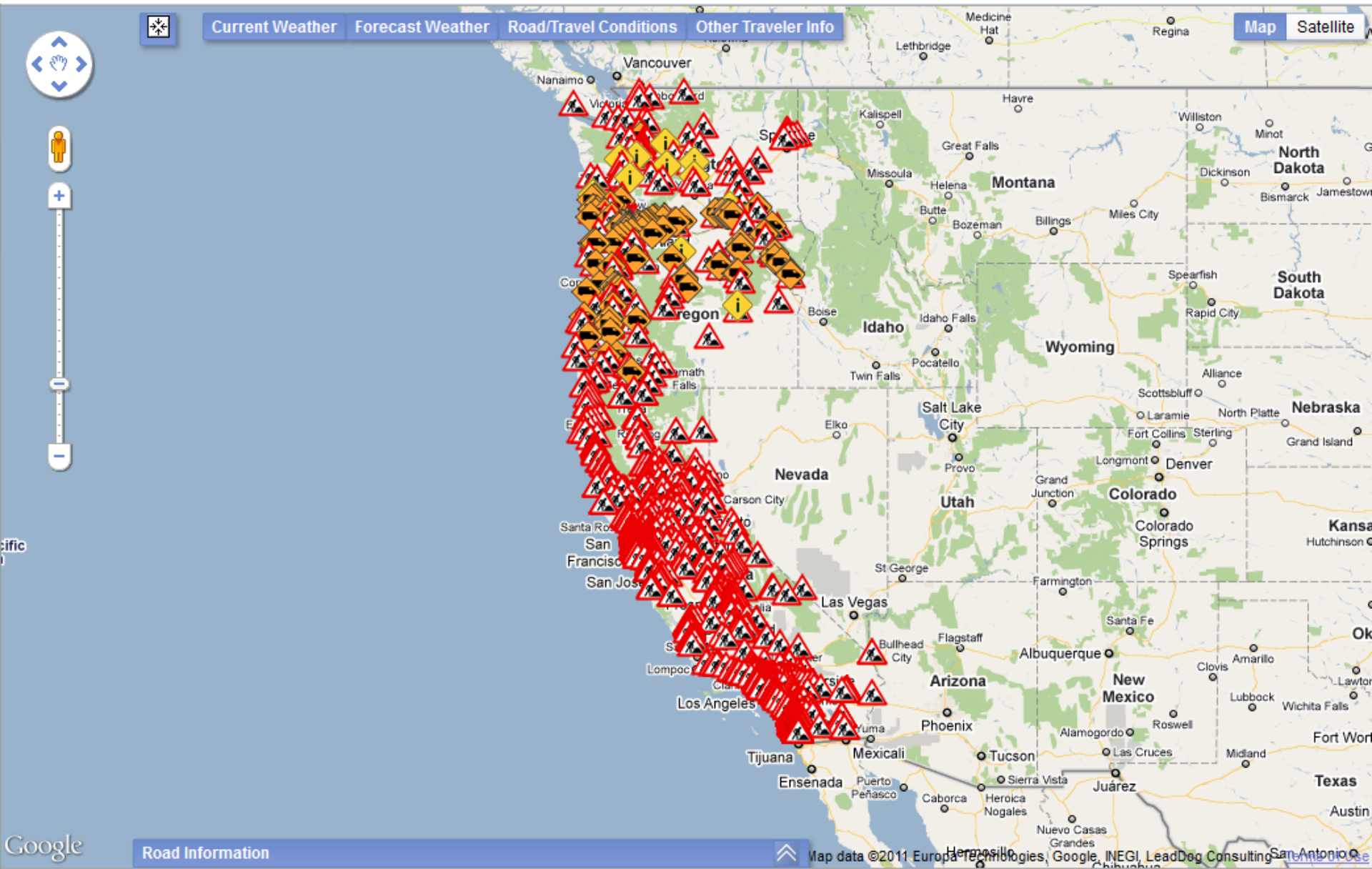
10:24 AM MDT - Thu, Jun 9 2011

DONNER SUMMIT
REST AREA
CLOSED

10:24 AM MDT - Thu, Jun 9 2011

SR 120 - CLOSED
SR 108 - OPEN
SR 89 - OPEN

CMS



Google

Road Information

Map data ©2011 Europa Technologies, Google, INEGI, LeadDog Consulting, San Antonio, Chihuahua

HATCHERY CREEK RD

Updated: 5:17 PM MDT - Mon, Jun 6 2011

Type: Construction

Route: 002

Milepost: 91.00

Description: On US 2, west of Leavenworth in Tumwater Canyon Wednesday and Thursday ONLY from 7 a.m. to 4 p.m., on Wednesday and 7 a.m. to noon, on Thursday, expect up to 20 minute delays with single lane flagger controlled traffic while WSDOT Geotech Engineers measure the slope for the steel netting that will be hung when these slopes are stabilized later this summer.

Advice:

UMPQUA

Updated: 8:05 AM MDT - Thu, Jun 9 2011

Type: Maintenance Work

Route: ORE38

Milepost: 18

Severity: Estimated delay under 20 minutes

Description: Traffic control with flaggers for brush cutting crew.

Advice:

Junction w/Route 395 to End of Pavement

Updated: 8:01 AM MDT - Thu, Jun 9 2011

Type: Highway Construction

Route: 270

Milepost: 0

Description: Estimated delay: 20

Advice:

None

Updated: 8:42 AM MDT - Thu, Jun 9 2011

Type: Lane Closure

Route: 090

Milepost: 111.00

Description: Lane Closure for maintenance work on I-90 west bound between milepost 111 to milepost 110 beginning at 7:40 AM on June 09, 2011 until 3:11 AM.

Advice:

PACIFIC

Updated: 8:00 PM MDT - Wed, Jun 8 2011

Type: Commercial Vehicle Information

Route: I-5

Milepost: 0

Severity: Informational only

Description: Effective May 24, 2011, this section of I-5 will be restricted to 16 feet 00 in. in width between the hours of 7:00 AM & 7:00 PM (DAYTIME). Estimated date of completion is June 30, 2011.

Advice:

THE DALLES-CALIFORNIA

Updated: 11:46 AM MDT - Tue, Jun 7 2011

Type: Information

Route: US97

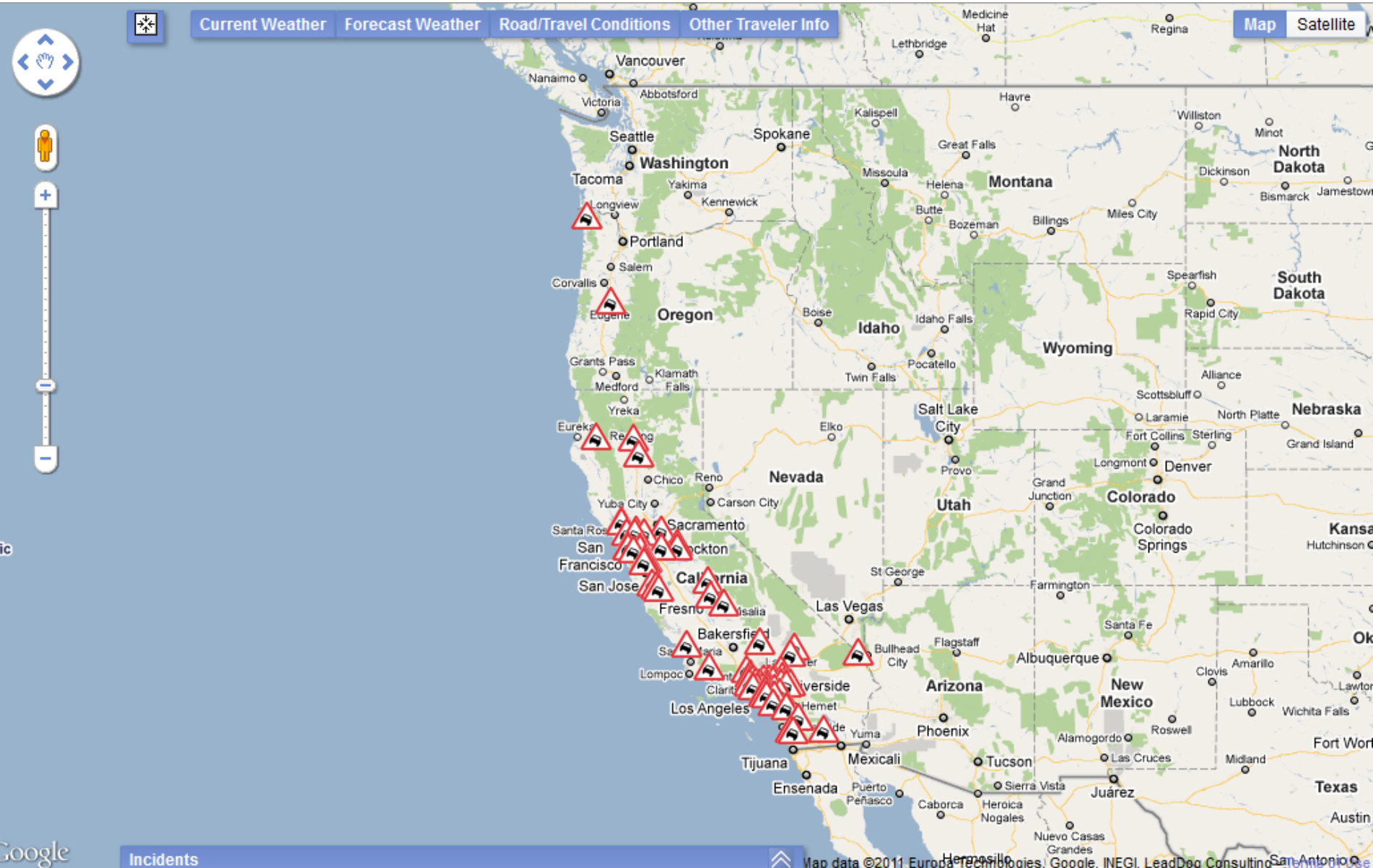
Milepost: 68.9

Severity: Informational only

Description: Cow Canyon Rest Area closed for construction 3/7/11 through 6/25/11.

Advice:

Road Information



NB I5 JSO NORTH ST ON OFF RAMP

Time: 7:29 AM MDT - Thu, Jun 9 2011

Detail:

8:29AM : 1039 PREMIER
 7:15AM : VEH ENTERED SVS //FCN/5431116000994 //TC
 6:57AM : 1039 CALTRANS
 6:57AM : INFO FOR CALTRANS: APX 10 OF GUARDRAIL DAMAGE / END OF GUA
 6:54AM : A/C HAS 15 MIN ETA
 6:47AM : 1039 SHASCOM / WILL INQ W/ SGT AND ADVISE
 6:46AM : PLS ROLL A/C FOR 1 PUPPY/ BOTH OCCUPANTS WILL BE TRANSPORTI
 6:38AM : 1039 PREMIER TOW
 6:38AM : ROLL 1185
 6:31AM : VEH IN DITCH ON E/SIDE OF RDWY
 6:31AM : 1039 SHA CALFIRE
 6:30AM : 1039 SHASCOM
 6:30AM : JUST SAW SMOKE AND PEOPLE RUNNING ALSO SAW SKID MARKS
 6:29AM : SOLO VEH OFF THE RD

NB SR99 AT PAIGE AV

Time: 10:33 AM MDT - Thu, Jun 9 2011

Detail:

9:33AM : WHI BIG RIG, WITH LG LOAD
 9:33AM : BIG RIG HAULING LANDSCAPING ROCK, IS TILTED OVER TO 1 SIDE READY TO FALL

NECANICUM

Time: 12:43 PM MDT - Mon, May 23 2011

Route: ORE53

Milepost: 11.25

Type: Crash/Hazard

Severity: Estimated delay under 20 minutes

Detail:

The road surface has collapsed, use caution.
 Advice:

WB I10 AT SR177

Time: 11:02 AM MDT - Thu, Jun 9 2011

Detail:

10:02AM : ETA TO OPEN, 1400
 10:02AM : AND OFR
 10:02AM : CT HAS ONR CLOSED
 10:03AM : CHP Unit On Scene

PACIFIC

Time: 5:46 PM MDT - Wed, Jun 8 2011

Route: I-5

Milepost: 175.4

Type: Crash/Hazard

Severity: Estimated delay under 20 minutes

Detail:

A crash has occurred, use caution.

Advice:

SR14 AT CALIFORNIA CITY BLVD

Time: 10:30 AM MDT - Thu, Jun 9 2011

Detail:

9:32AM : 59-1 WILL CHECK LOG 457 FIRST THEN THIS LOG
 9:30AM : GOAT OR A SHEEP WALKING IN THE RDWY
 9:41AM : CHP Unit Assigned

SB I5 JNO CAMINO CAPISTRANO

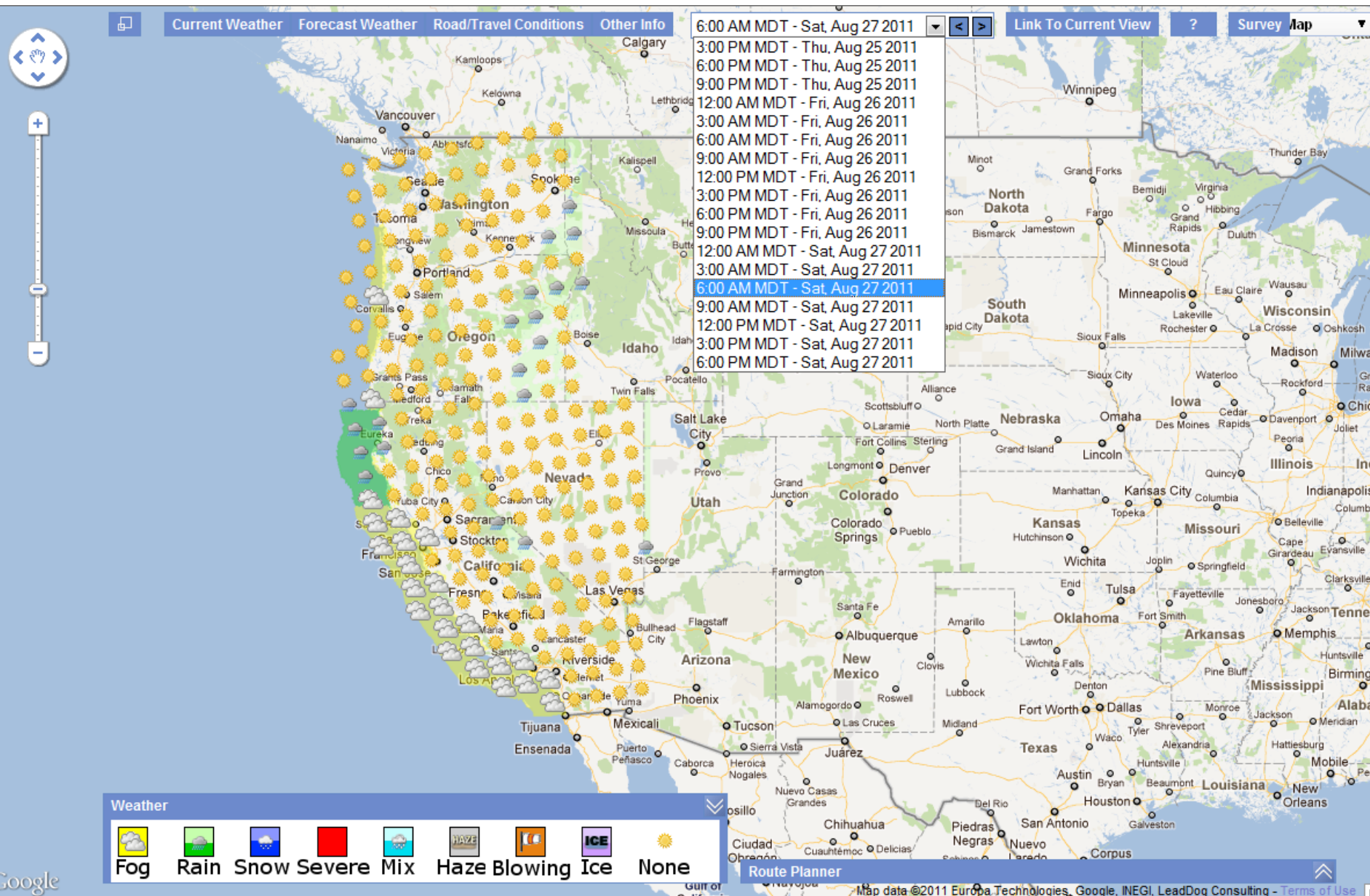
Time: 9:39 AM MDT - Thu, Jun 9 2011

Detail:

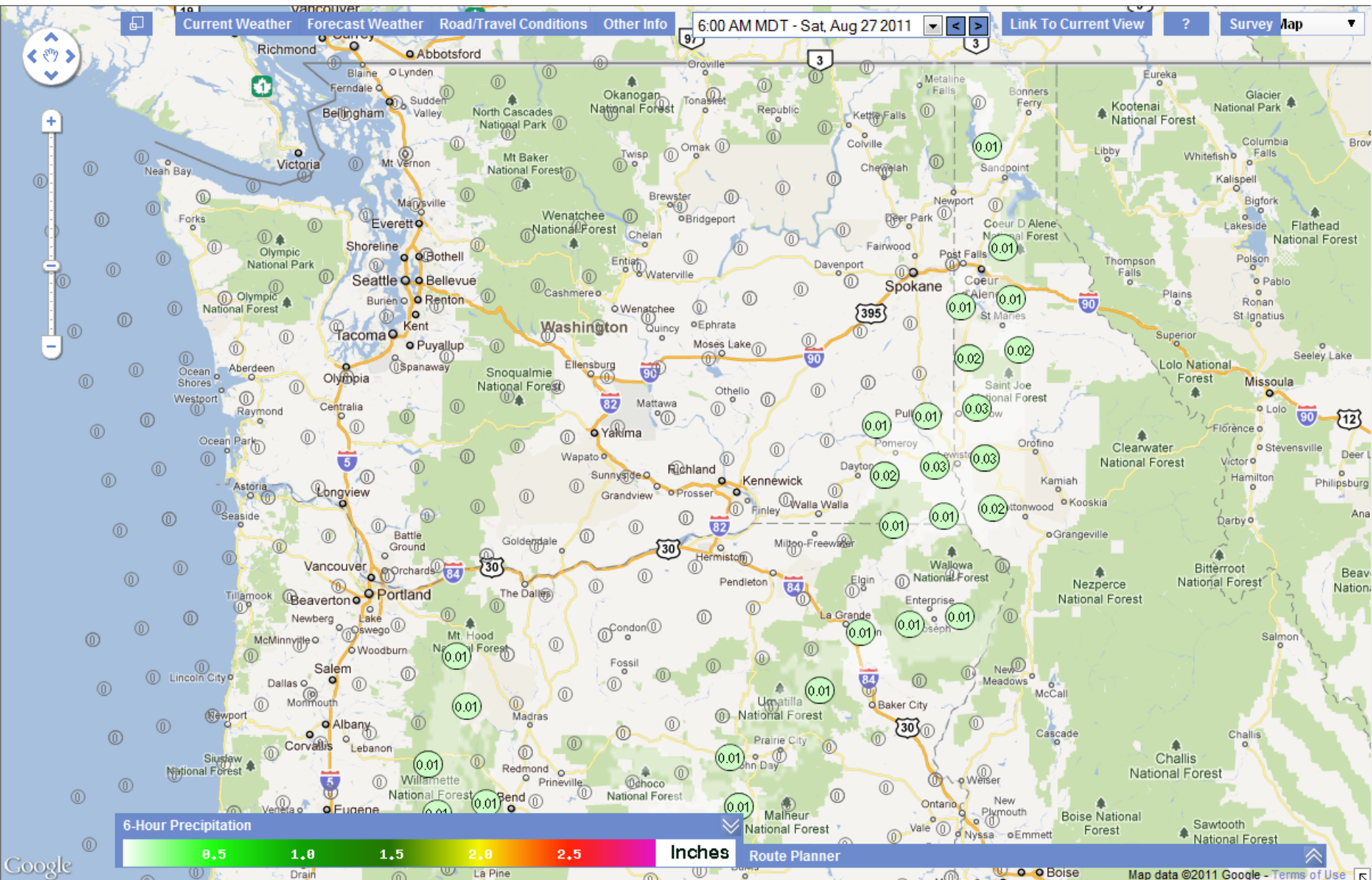
8:55AM : ALL LANES WILL BE OPEN SHORTLY
 8:55AM : PER 57, FSP CLEARING EVERYTHING TO THE RS
 8:53AM : 1039 S&K
 8:51AM : #4 IS BLOCKED
 8:50AM : FSP 97 W/ BLK TOYT PK - JNO CAM CAP - FIRE 97
 8:44AM : PART BLKG SLOW LN
 8:41AM : 1039 STA 91
 8:39AM : VEH INTO RS RAILING , BLEW A TIRE
 8:50AM : CHP Unit On Scene
 8:56AM : CHP Unit On Scene

Incidents

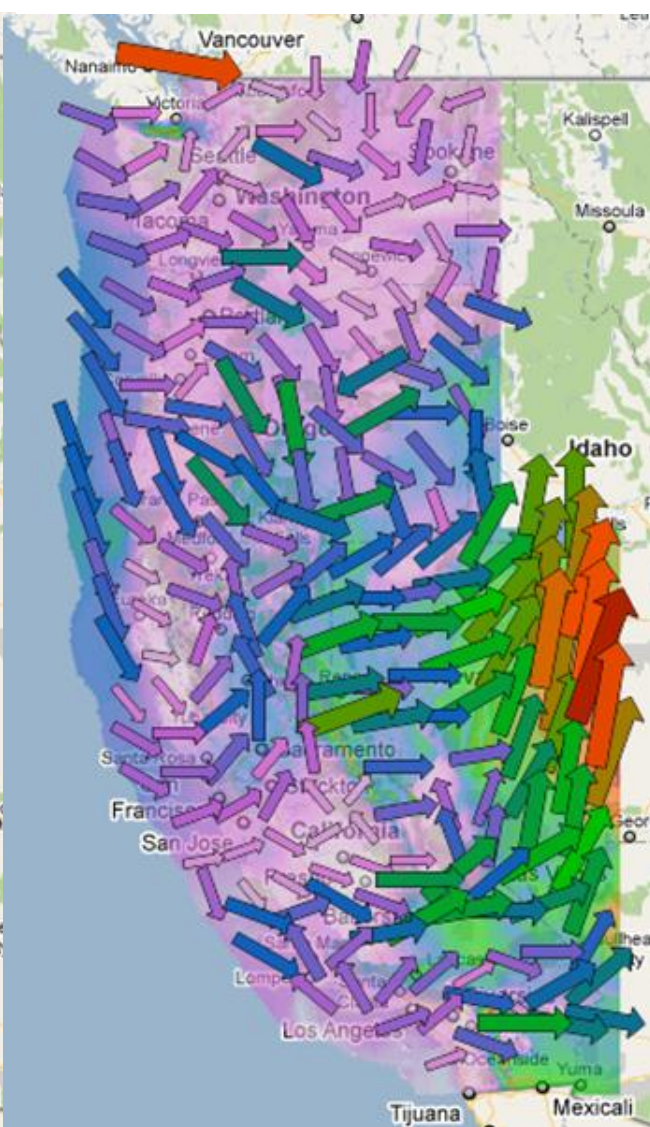
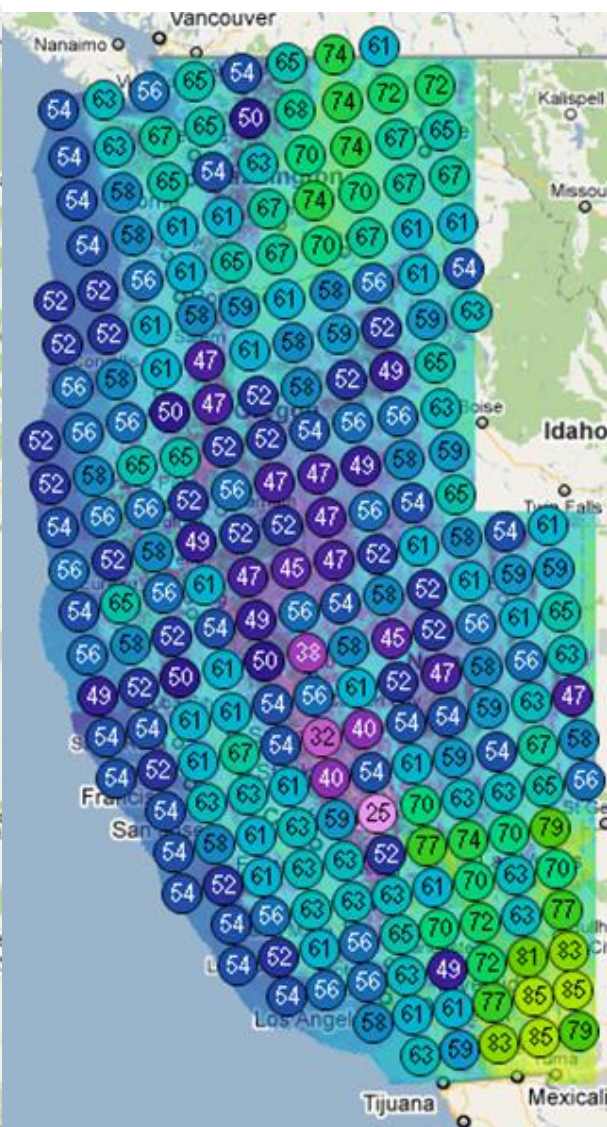
Weather Forecasts



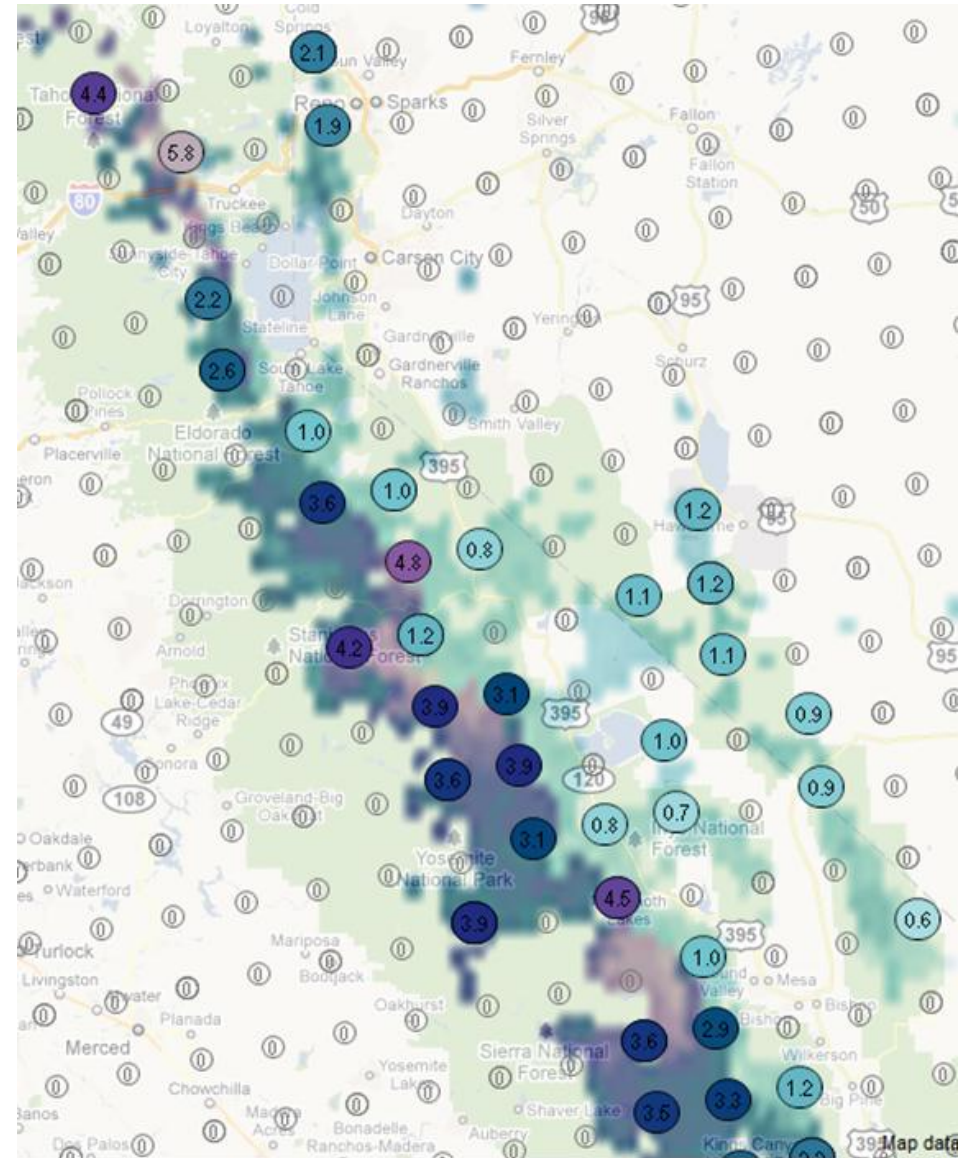
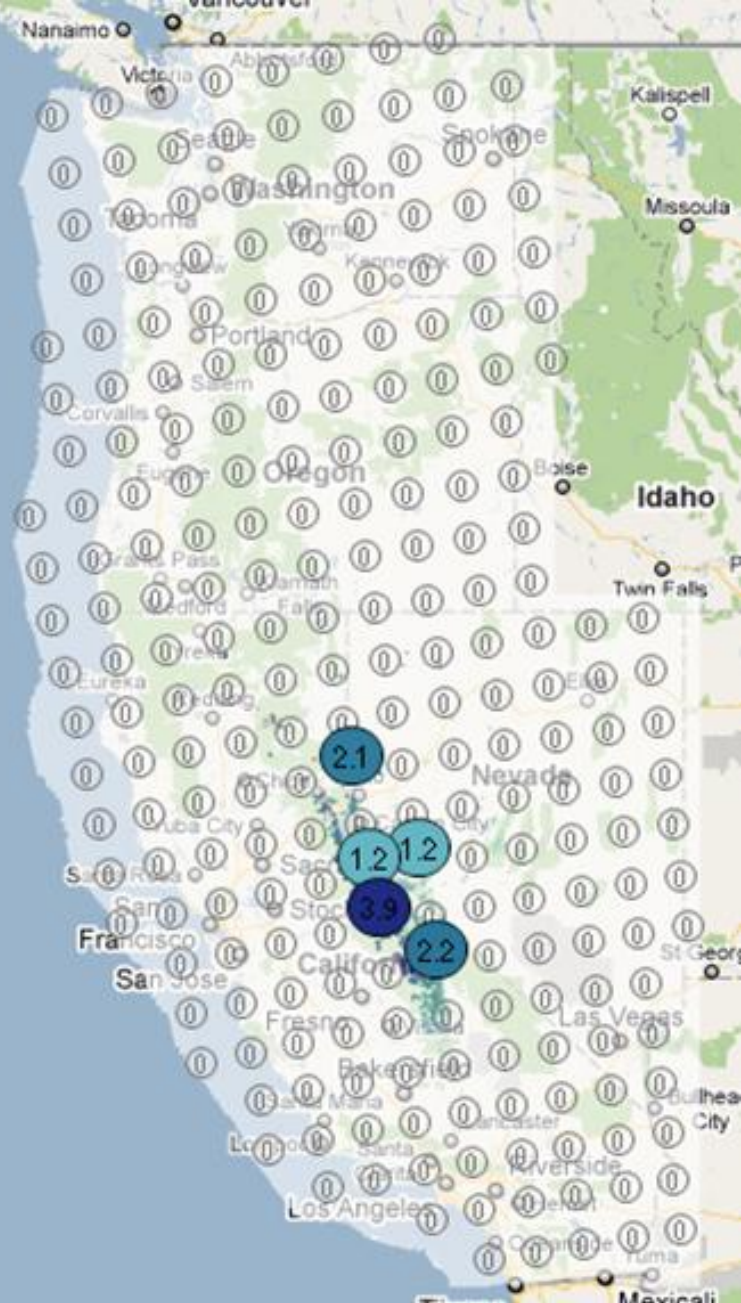
Precipitation Forecast

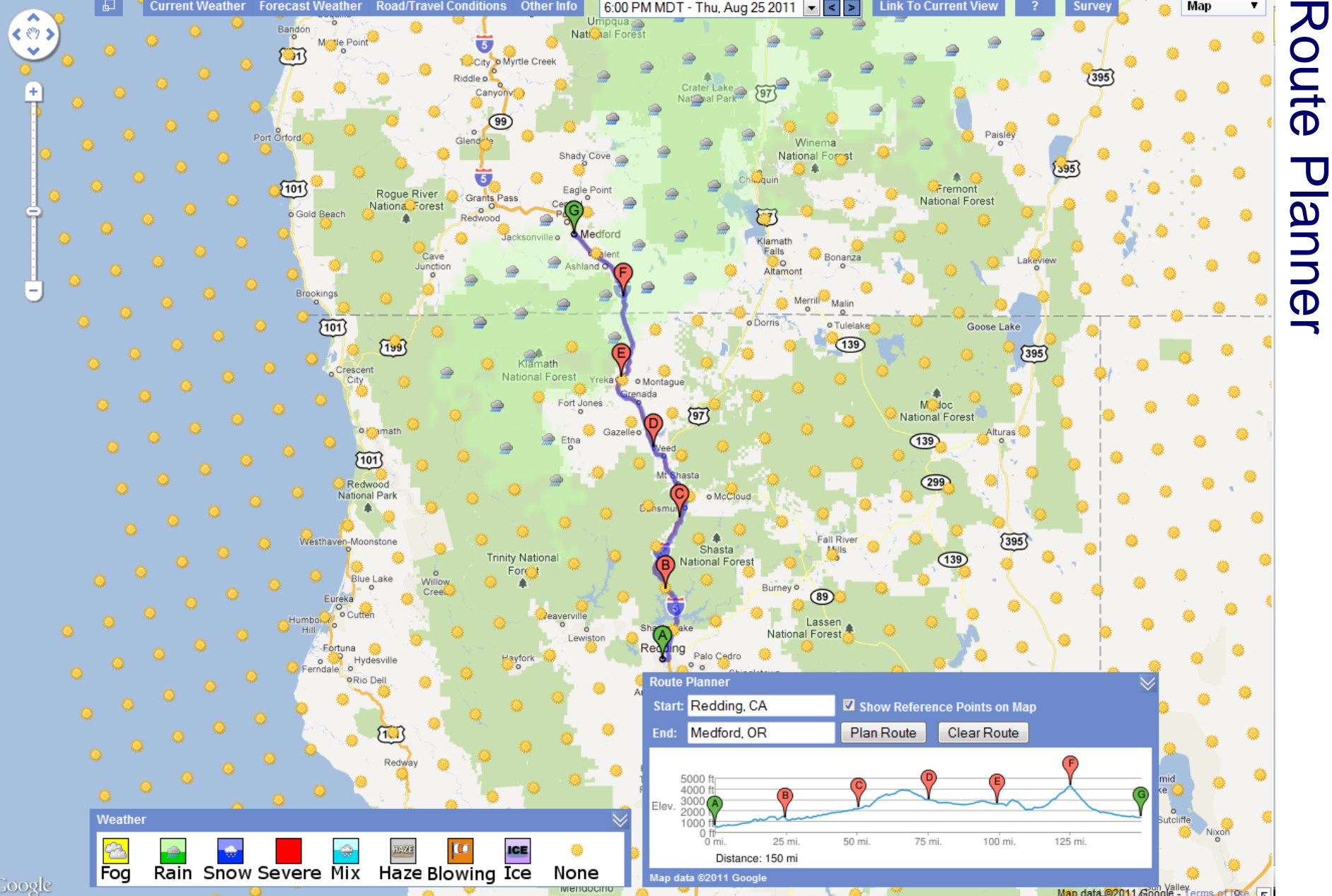


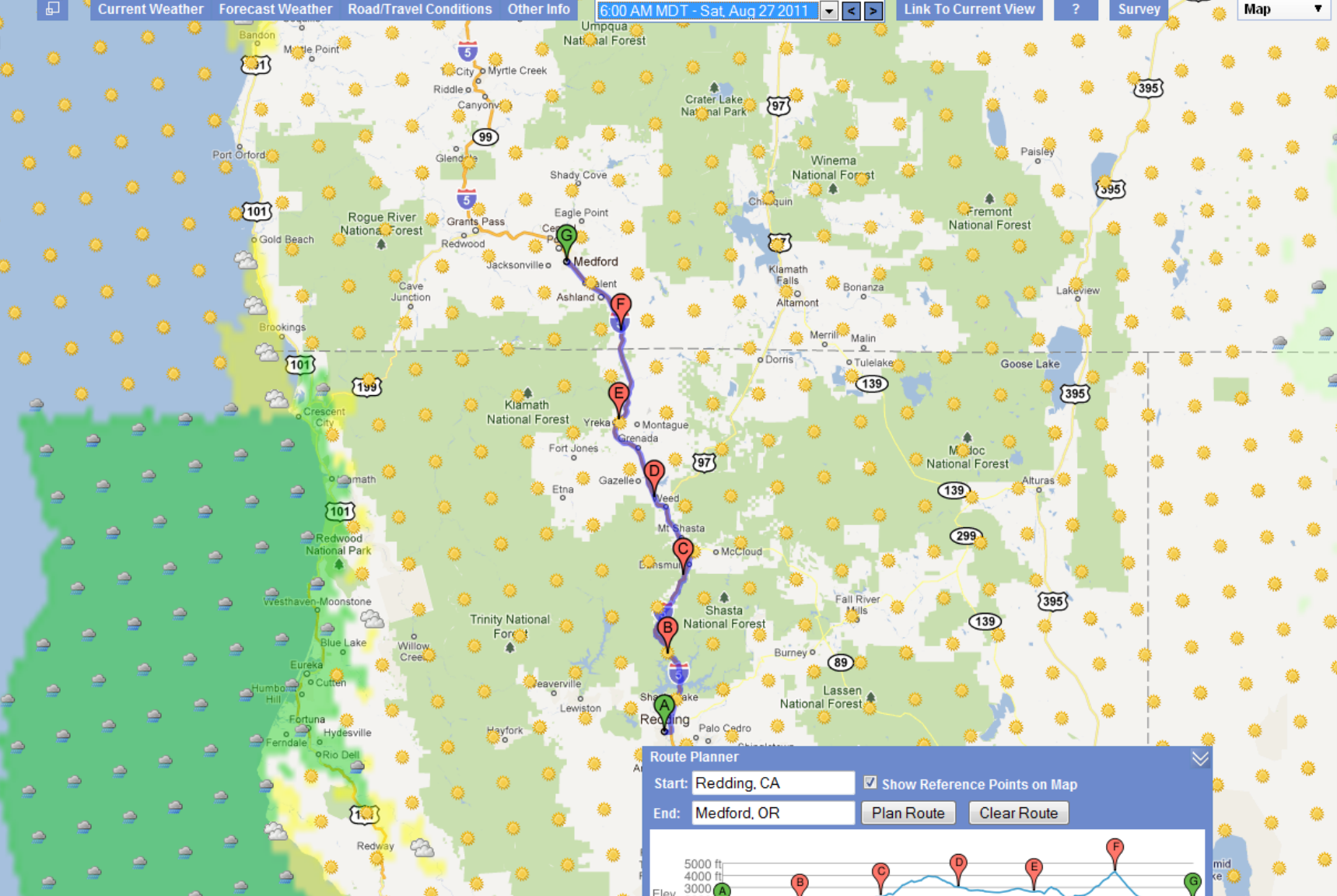
Information at a Glance



Further Detail Upon Zoom







Weather

Fog	Rain	Snow	Severe	Mix	Haze	Blowing	Ice	None

Route Planner

Start: Show Reference Points on Map

End:

Distance: 150 mi

Map data ©2011 Google

18 - DN 101 PM 20.57 - Cushing Creek - FNB

Updated: 2:59 PM MDT - Thu, Aug 25 2011

SHARP CURVES
STEEP GRADE

18 - DN 101 PM 20.57 - Cushing Creek - FNB

Updated: 2:59 PM MDT - Thu, Aug 25 2011

REDUCE SPEED
NEXT 2 MILES

Second Screen
of Message

Route Planner

Route Planner

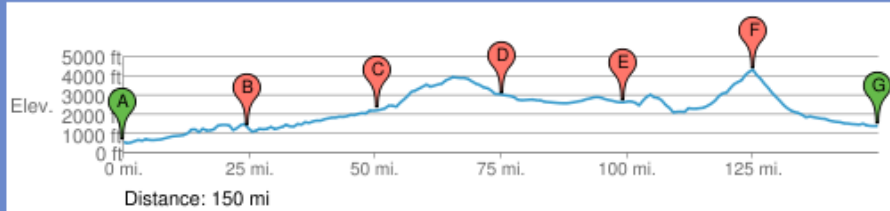
Start: Redding, CA

Show Reference Points on Map

End: Medford, OR

Plan Route

Clear Route



Map data ©2011 Google

CMS

Active CMS

Blank CMS

Current Weather Forecast Weather Road/Travel Conditions Other Info Link To Current View ? Survey

North Weed
2:17 PM MDT - Thu, Aug 25 2011

Route Planner
Start: Redding, CA Show Reference Points on Map
End: Medford, OR

Distance (mi)	Elevation (ft)	Point
0	~1000	A
25	~2000	B
50	~3000	C
75	~3500	D
100	~3000	E
125	~4500	F
150	~1000	G

Distance: 150 mi

Map data ©2011 Google

CCTV
CCTV Camera Location

Map data ©2011 Google - Terms of Use

Route Planner

Weather

- Fog
- Rain
- Snow
- Severe
- Mix
- Haze
- Blowing
- Ice
- None

Route Planner

Start: Los Angeles, CA Show Reference Points on Map

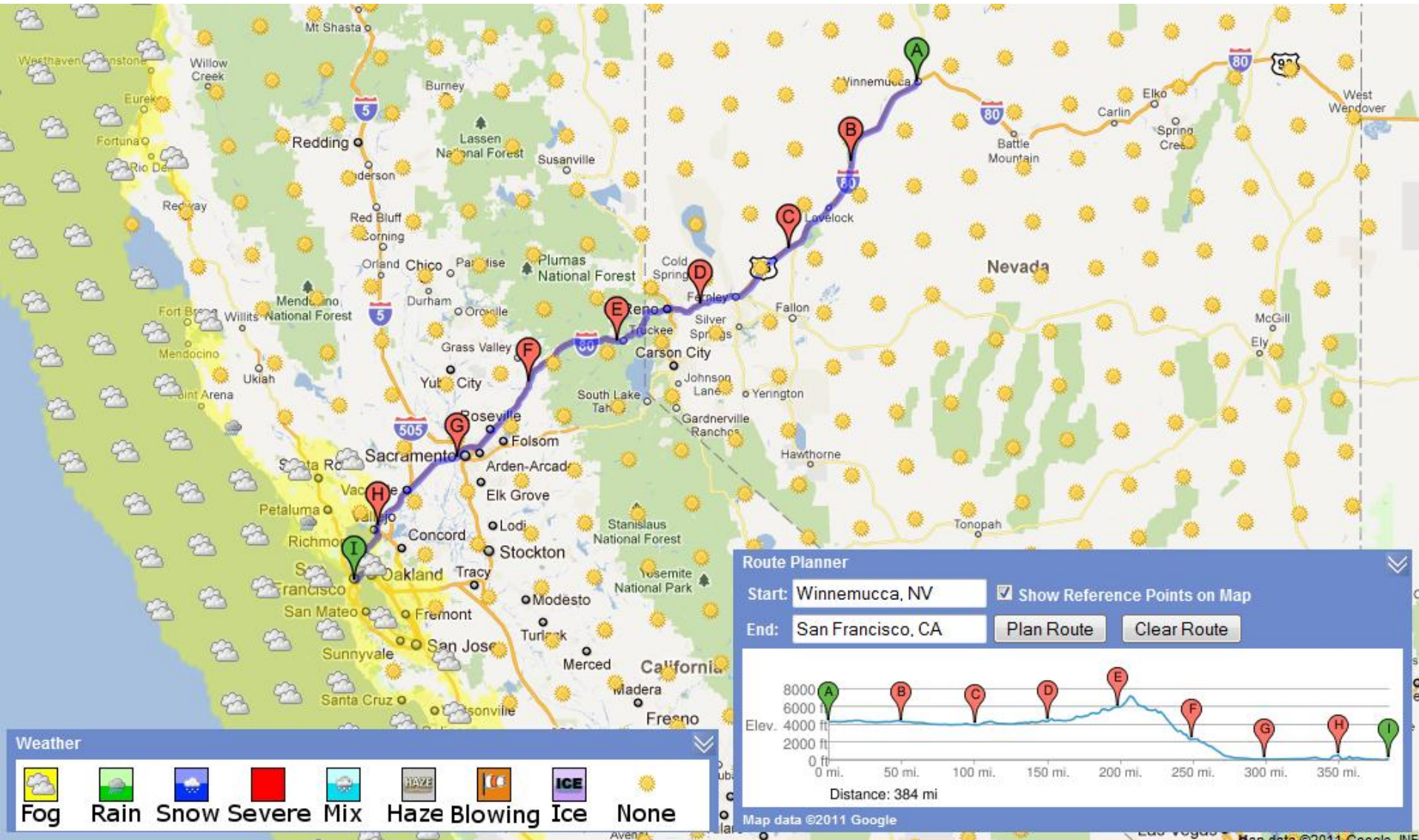
End: Seattle, WA

Elev. 5000 ft, 4000 ft, 3000 ft, 2000 ft, 1000 ft, 0 ft

Distance: 1135 mi

Map data ©2011 Europa Technologies, Google

Route Planner

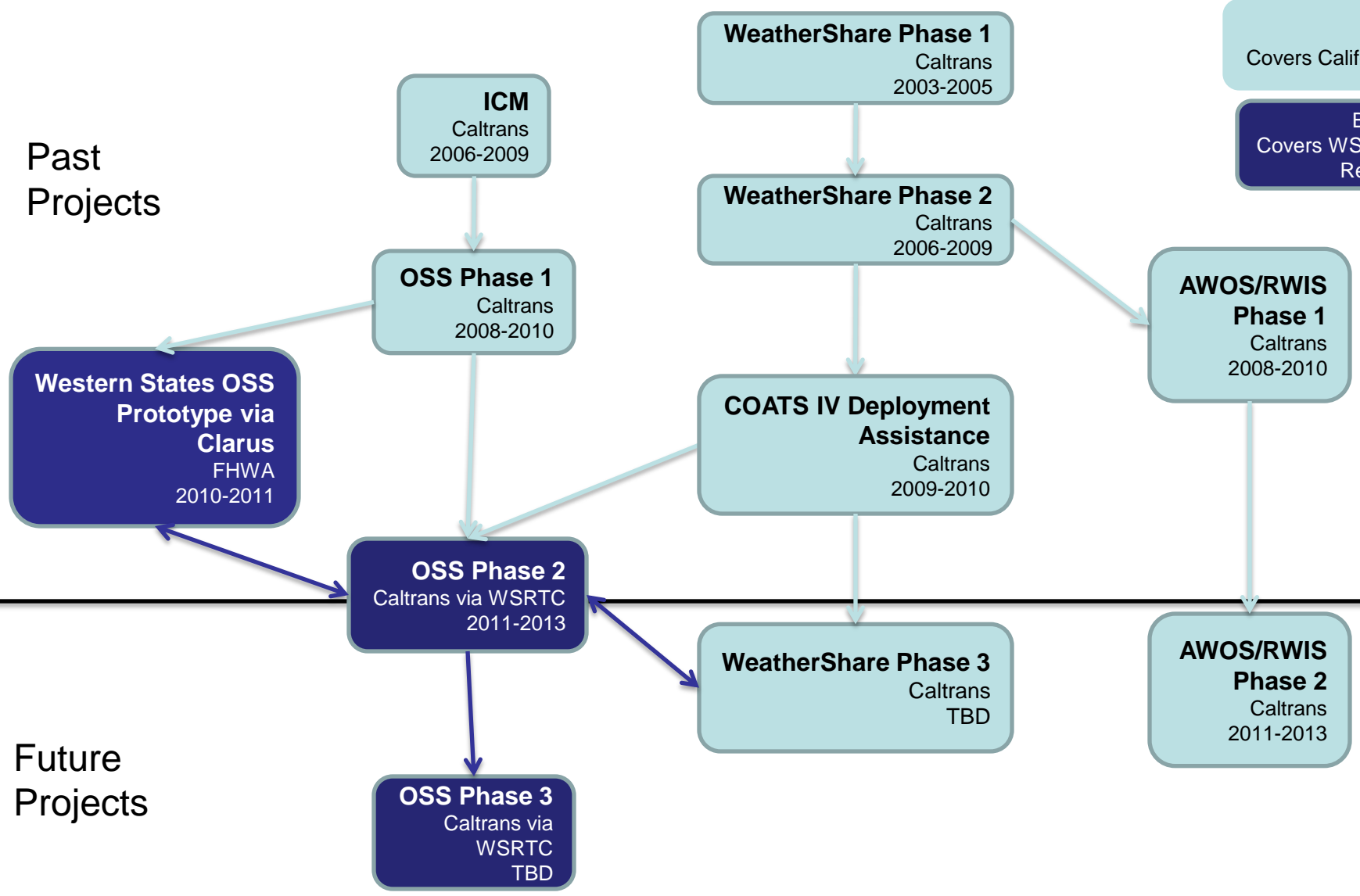


Closely related web-based efforts

Past Projects

Ice=
Covers California

Blue=
Covers WSRTC
Region



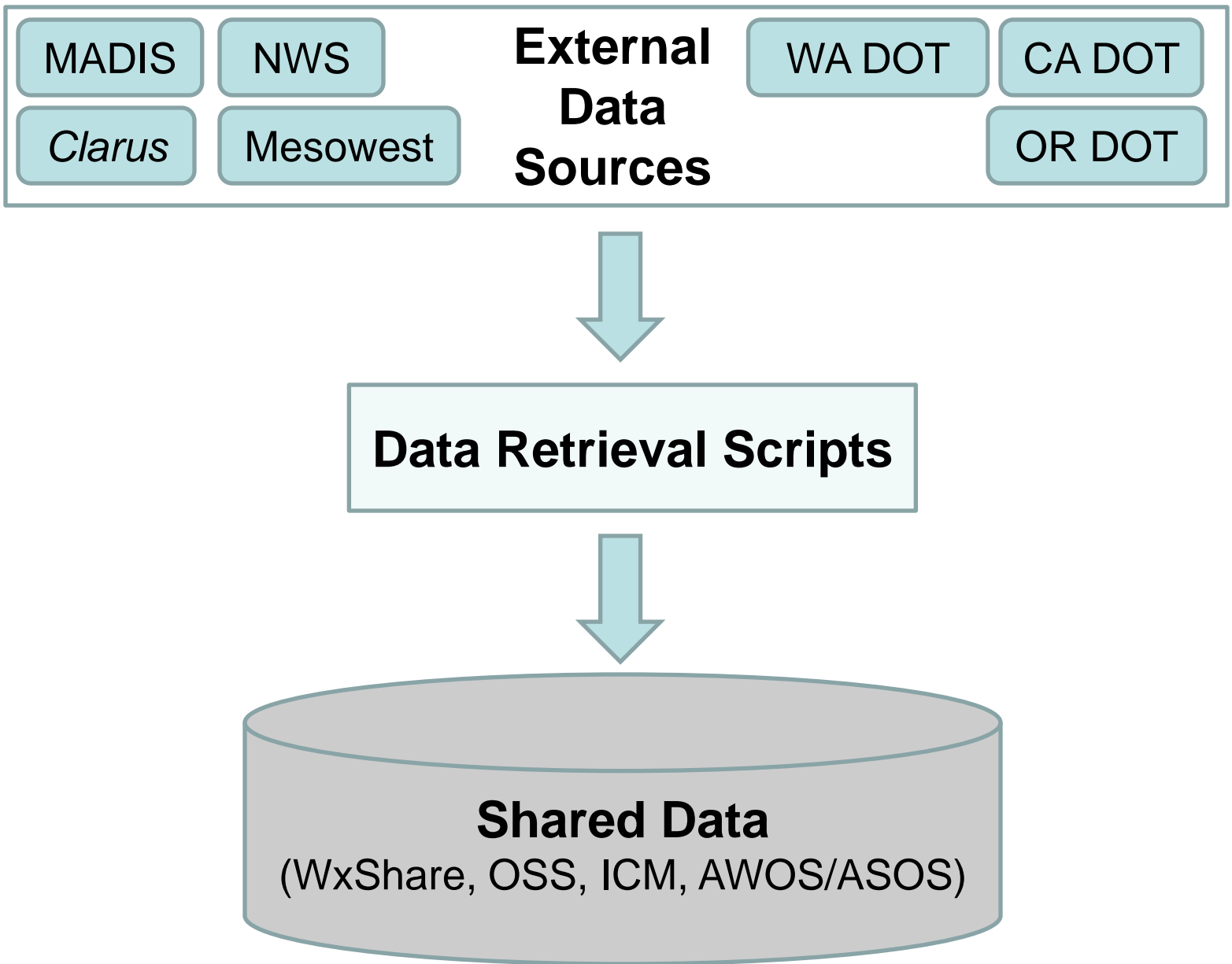
Future Projects

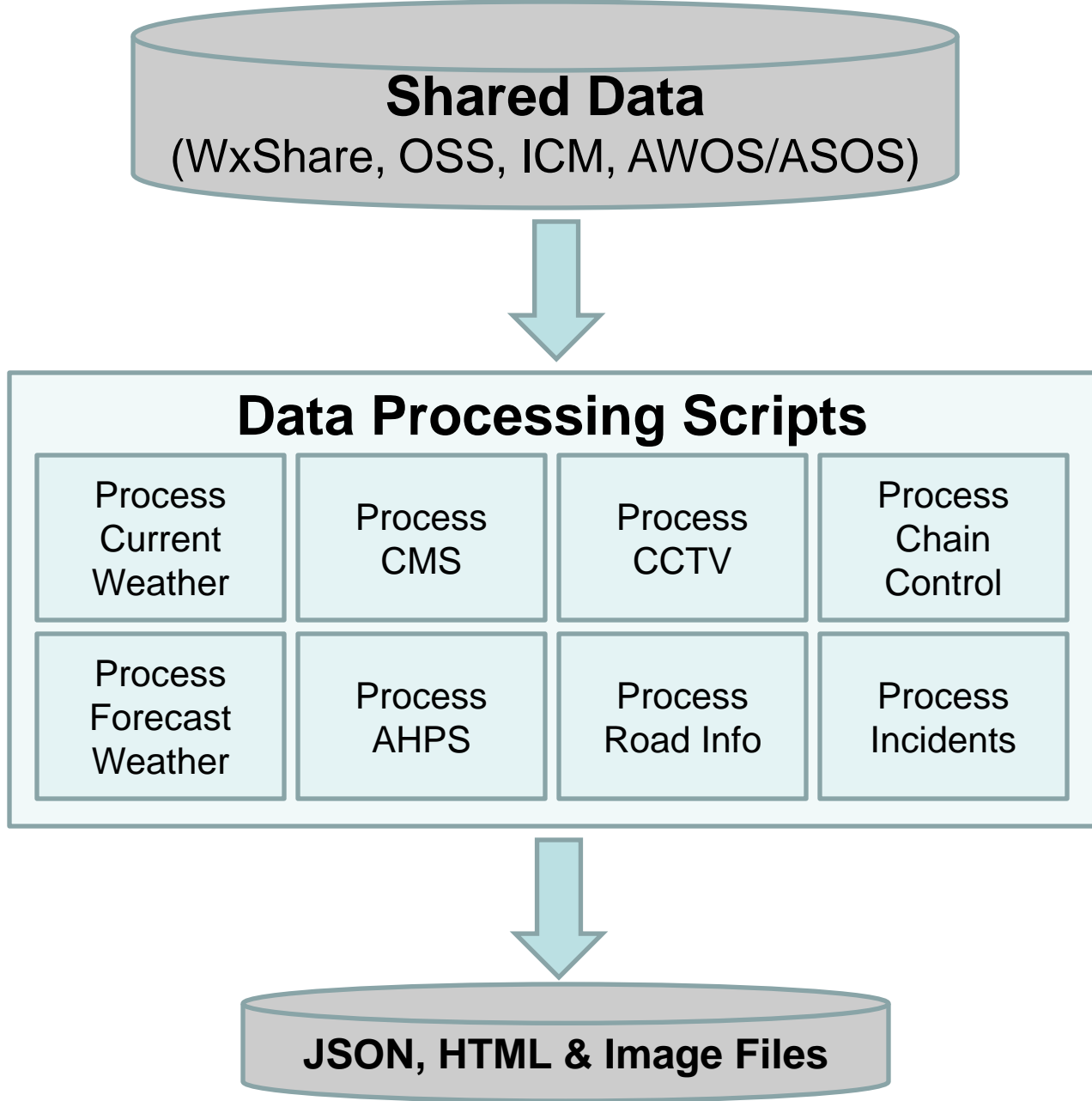
Western States OSS Phase 2

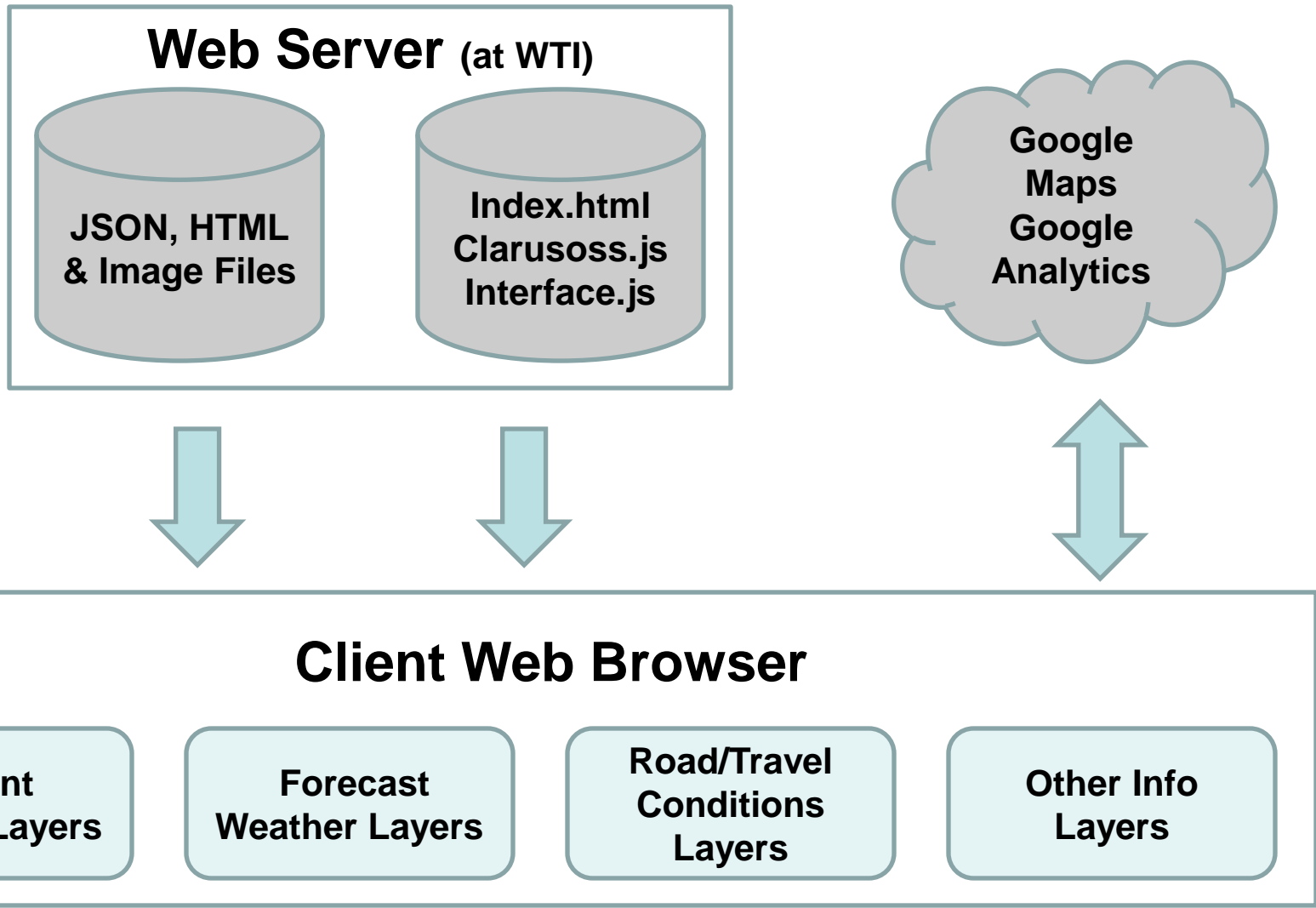
- Caltrans (\$150,000) and WTI (\$50,000) funded via WSRTC
- Started in late 2011.
- Prepare the system for wider use.

Architecture

Data Retrieval







Data Sources

Data Sources Utilized

Source	Dataset	Known Coverage/ Availability
<i>Clarus</i>	ESS Sensor Data (RWIS)	CA, OR, NV, WA
MADIS and Mesowest	Other Weather Sensor Data	CA, OR, NV, WA
NOAA - NWS	National Digital Forecast Database (NDFD)	CA, OR, NV, WA
NOAA - NWS	Weather Warnings, Alerts, Advisories, Special Weather Statements	CA, OR, NV, WA
Google	Elevation Data, Route Data, Traffic Conditions	CA, OR, NV, WA
State DOTs	CCTV Images	CA, OR, WA
State DOTs	CMS Messages	CA, OR, WA
State DOTs	Chain Requirements	CA, OR, WA
State DOTs	Incidents	CA, OR
State DOTs	Road Information (Construction, Commercial Vehicle Information)	CA, OR, WA
State DOTs	Features of Interest	CA
State DOTs	Summit Locations	CA, WA
State DOTs	Rest Areas	CA, OR, WA
State DOTs	Truck Scales	CA, OR

Data Acquisition

Clarus ESS Data

The screenshot displays the 'Clarus System' interface. At the top left, the text 'Clarus System' is shown in a stylized font, with a 'home' link to its right. Below this, the main heading is 'Observations by Contributor'. A timestamp '2012-05-10 13:57 UTC' is visible in the bottom left of the header area. On the right side, there is a section titled 'Contributors' with a detailed instruction: 'Select one or more contributors from the *All Contributors* listbox and 'toss' them to the *Selected Contributors* listbox by pressing the >> button. To remove a contributor from the *Selected Contributors* listbox, select it and press the << button.' Below this instruction, a note states: 'You may select more than one item in the list by pressing the *Ctrl* or *Shift* key when making your selection.'

The interface is divided into two main columns. The left column is titled 'All Contributors' and contains a listbox with the following items: SC_State_DOT, SD_State_DOT, TN_State_DOT, UT_State_DOT, VA_State_DOT, VT_State_AOT, WA_State_DOT (highlighted in blue), WI_State_DOT, WV_State_DOT, and WY_State_DOT. The right column is titled 'Selected Contributors' and contains a listbox with the following items: CA_State_DOT, NV_State_DOT, OR_State_DOT, and WA_State_DOT. Between these two listboxes are two buttons: a '>>' button and a '<<' button. At the bottom right of the interface, there is a 'Next Page' button.

<http://www.clarus-system.com/>

Subscribed Observations

2012-05-10 13:58 UTC

Observations	Size (bytes)
20120510_1345.csv	328,358
20120510_1330.csv	242,807
20120510_1315.csv	240,006
20120510_1300.csv	228,937
20120510_1245.csv	326,944
20120510_1230.csv	240,284
20120510_1215.csv	232,965
20120510_1200.csv	211,799
20120510_1145.csv	315,909
20120510_1130.csv	240,331
20120510_1115.csv	397,623
20120510_1100.csv	274,226
20120510_1045.csv	167,704
20120510_1030.csv	271,825
20120510_1015.csv	282,144
20120510_1000.csv	262,104
20120510_0945.csv	166,436
20120510_0930.csv	283,654
20120510_0915.csv	398,561
20120510_0900.csv	224,464
20120510_0845.csv	434,184
20120510_0830.csv	281,347

Our Retrieval Script

```
#!/bin/bash
```

```
#NOTE: if using this template to add a new data source, please
update the list of sources in
#\wtisru\Project Data\4W3347 FHWA Clarus BAA One Stop Shop\
Design\SystemDesignNotes\Clarus OSS implementation notes.docx
```

```
DATASOURCE=clarus
```

```
LOGFILE=/home/websitedata/logs/$DATASOURCE.log
DOWNLOADDIR=/home/websitedata/data/$DATASOURCE/current/
```

```
DATEHOUR=`date -u +"%Y%m%d_%H"`
MINUTE=$(( 10#`date -u +"%M"` / 15 ))
```

```
case $MINUTE in
```

- 0)


```
MINUTE=""00"
;;
```
- 1)


```
MINUTE=""15"
;;
```
- 2)


```
MINUTE=""30"
;;
```
- 3)


```
MINUTE=""45"
;;
```

```
esac
```

```
URL=""http://www.clarus-system.com/SubShowObs.jsp?subId=
&file=$DATEHOUR$MINUTE.csv"
```

```
wget --output-document=""$DOWNLOADDIR$DATEHOUR$MINUTE.csv" $URL
>$LOGFILE 2>&1
```

```
MAXFILES=7
```

```
NUMFILES=$(ls -1 $DOWNLOADDIR | wc -l)
```

```
if [[ $NUMFILES > $MAXFILES ]]; then
```

```
cd $DOWNLOADDIR >$LOGFILE 2>&1
```

```
rm -f $(ls -1t $DOWNLOADDIR | tail -n $(( $NUMFILES-$MAXFILES )) ) >$LOGFILE 2>&1
```

```
fi
```

ObsTypeID,ObsTypeName,ClarusSensorID,ClarusSensorIndex,ClarusStationID,ClarusSiteID,Category,ClarusContribID,Contributor,StationCode,Timestamp,Latitude,Longitude,Elevation,Observation,Units,EnglishValue,EnglishUnits,ConfValue,Complete,Manual,Sensor_Range,Climate_Range,Step,Like_Instrument,Persistence,IQR_Spatial,Barnes_Spatial,Dew_Point,Sea_Level_Pressure,Precip_Accum

5733,essAirTemperature,79250,0,5754,5280,P,31,NV_State_DOT,D1003,2012-05-04 17:38:00,36.321237,-115.619626,2504,5.667,C,42.200,F,1.000,P,-,P,P,P,/,P,-,-,/,/,/

554,essAtmosphericPressure,92765,0,6212,5738,P,9,CA_State_DOT,365004,2012-05-04 18:50:11,37.374623,-120.683395,43,1016.300,mbar,30.011,inHg,0.913,P,-,P,N,P,/,P,P,-,/,P,/
 ...

51139,essPavementTemperature,80076,1,5795,5311,P,31,NV_State_DOT,D340,2012-05-04 18:22:00,39.06962,-114.172025,1710,30.778,C,87.400,F,1.000,P,-,P,P,P,P,P,-,P,/,/,/,/

511313,essSurfaceFreezePoint,80425,1,5812,5328,P,31,NV_State_DOT,NV15,2012-05-04 18:45:00,39.117414,-119.845509,1815,-17.778,C,0.000,F,1.000,P,-,P,/,P,/,/,/,/,/,/,/

NOAA MADIS



National Oceanic and Atmospheric Administration | Earth Systems Research Laboratory



Meteorological Assimilation Data Ingest System

[DOC](#) | [NOAA](#) | [NOAA Research](#) | [ESRL](#) | [GSD](#) | [MADIS HOME](#)

The demands for finer scale meteorological services have increasingly required higher resolution observations to initialize and evaluate weather and climate models, applications, and products. In response to these demands, the National Oceanic and Atmospheric Administration (NOAA) Research (Oceanic and Atmospheric Research (OAR)) Earth System Research Laboratory (ESRL) Global Systems Division (GSD) developed the Meteorological Assimilation Data Ingest System (MADIS) to collect, integrate, quality control (QC), and distribute observations from NOAA and non-NOAA organizations. MADIS leverages partnerships with international agencies; federal, state, and local agencies (e.g. state Departments of Transportation); universities; volunteer networks; and the private sector (e.g. airlines, railroads) to integrate observations from their stations with those of NOAA to provide a finer density, higher frequency observational database for use by the greater meteorological community. MADIS observational products and services were first provided to the public in July of 2001.

MADIS runs operationally in real-time in the National Weather Service (NWS) with a distributed architecture consisting of ingest and distribution services at the [Telecommunications Operations Center \(TOC\)](#) with processing performed at the [National Centers for Environmental Prediction \(NCEP\) Central Operations \(NCO\)](#). MADIS also runs quasi-operationally in a research test environment at ESRL/GSD, where new advances are developed and tested prior to being put into operations. The ESRL/GSD system also has an archive of saved real-time data, and serves as the backup to the operational system.

<http://madis.noaa.gov/>

The MADIS dataset and the associated download is huge:

Download

```
12,367,688 20120510_1300.gz
12,567,392 20120510_1400.gz
7,105,194 20120510_1500.gz
```



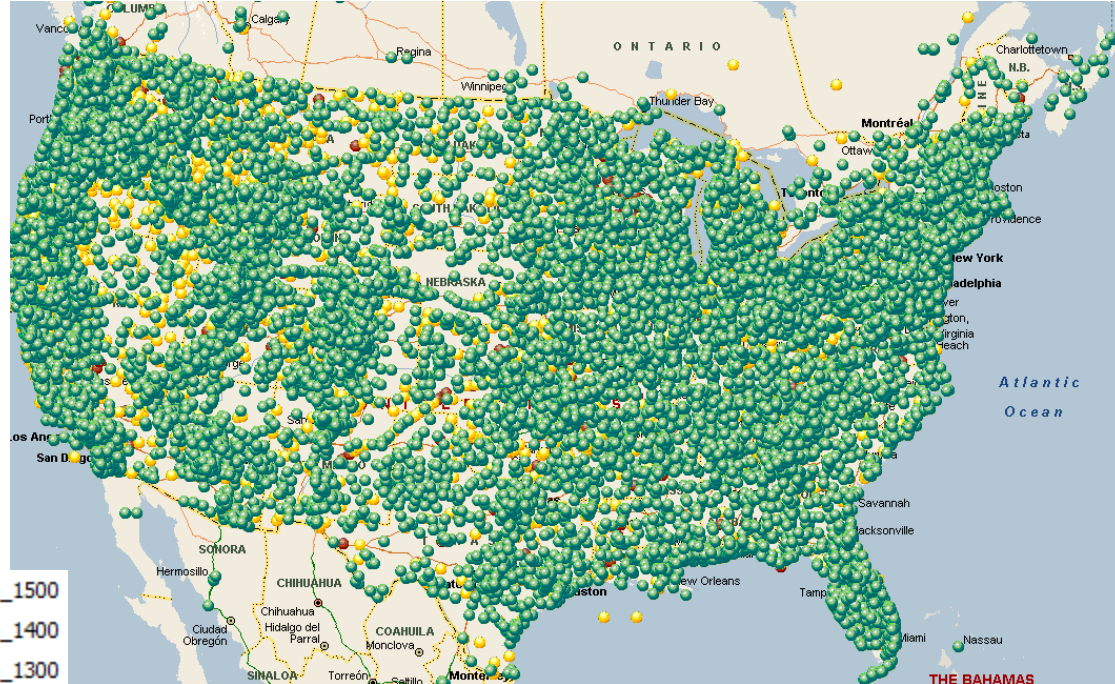
Un-Compress

```
140,367,980 20120510_1300
142,149,836 20120510_1400
81,553,820 20120510_1500
```

This only shows the mesonet subset. We also download the maritime, netcdf and sao datasets. At present we only download and use the most recent file for each. We download every 15 minutes.



● 20120510_1500
● 20120510_1400
● 20120510_1300



Fields are then extracted for our area of interest:

- The data subsets are stored in netcdf format.
- The MADIS sfcdump utility is used to extract the data we are interested in.

```

Time Window (use 0,0,0 for default)          FIXED LENGTH SECTION
-----
-60      Number of minutes relative to nominal time at which to start window
0        Number of minutes relative to nominal time at which to end window
3        0 - return all records within the file containing nominal time
        1 - return one record per fixed station, closest to nominal time
        2 - return one record per fixed station, closest to start of window
        3 - return one record per fixed station, closest to end of window
        4 - return all records within *window*

Domain Filter                                FIXED LENGTH SECTION
-----
1        0 - don't filter
        1 - return stations within latitude/longitude corners
        2 - return stations within specified Polar Stereographic grid
        3 - return stations within specified Lambert Conformal Conic grid

Latitude/Longitude Corners (lines skipped if not Domain Filter 1)
-----
32.56   SW corner latitude (north)
-125    SW corner longitude (east)
49      NE corner latitude (north)
-114    NE corner longitude (east)

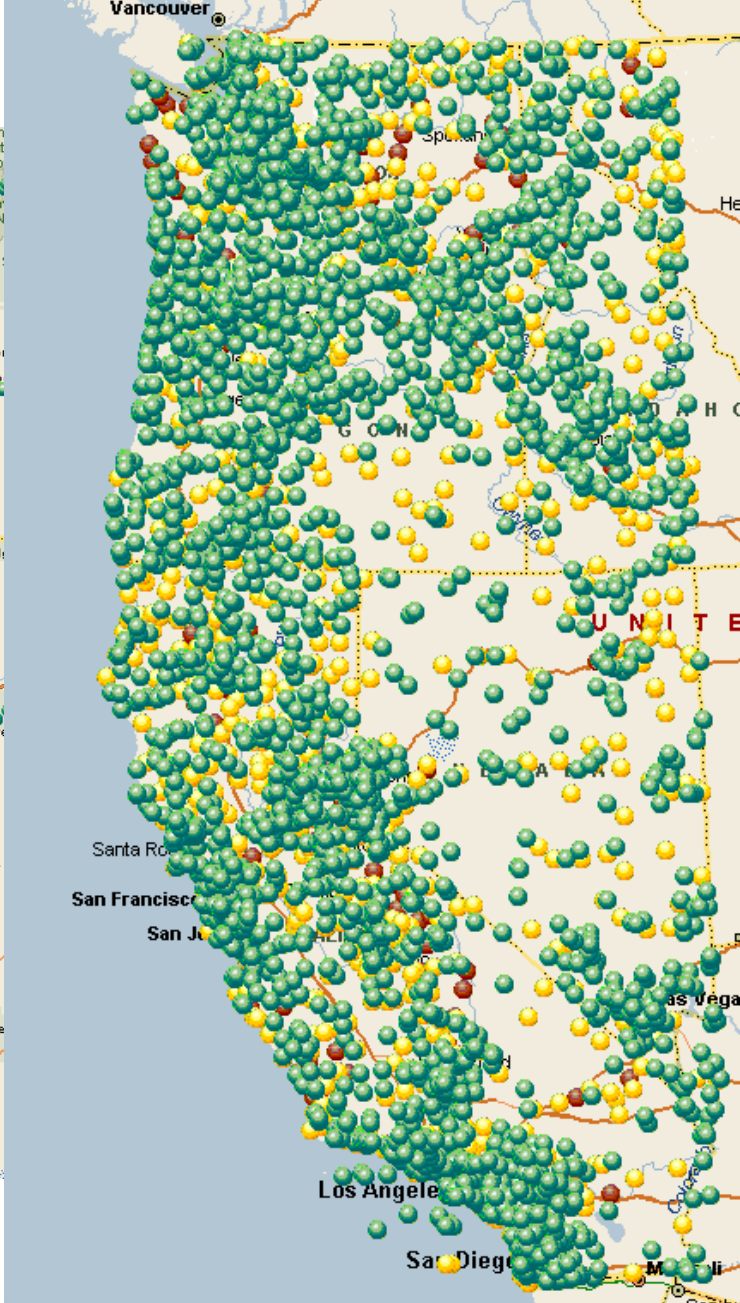
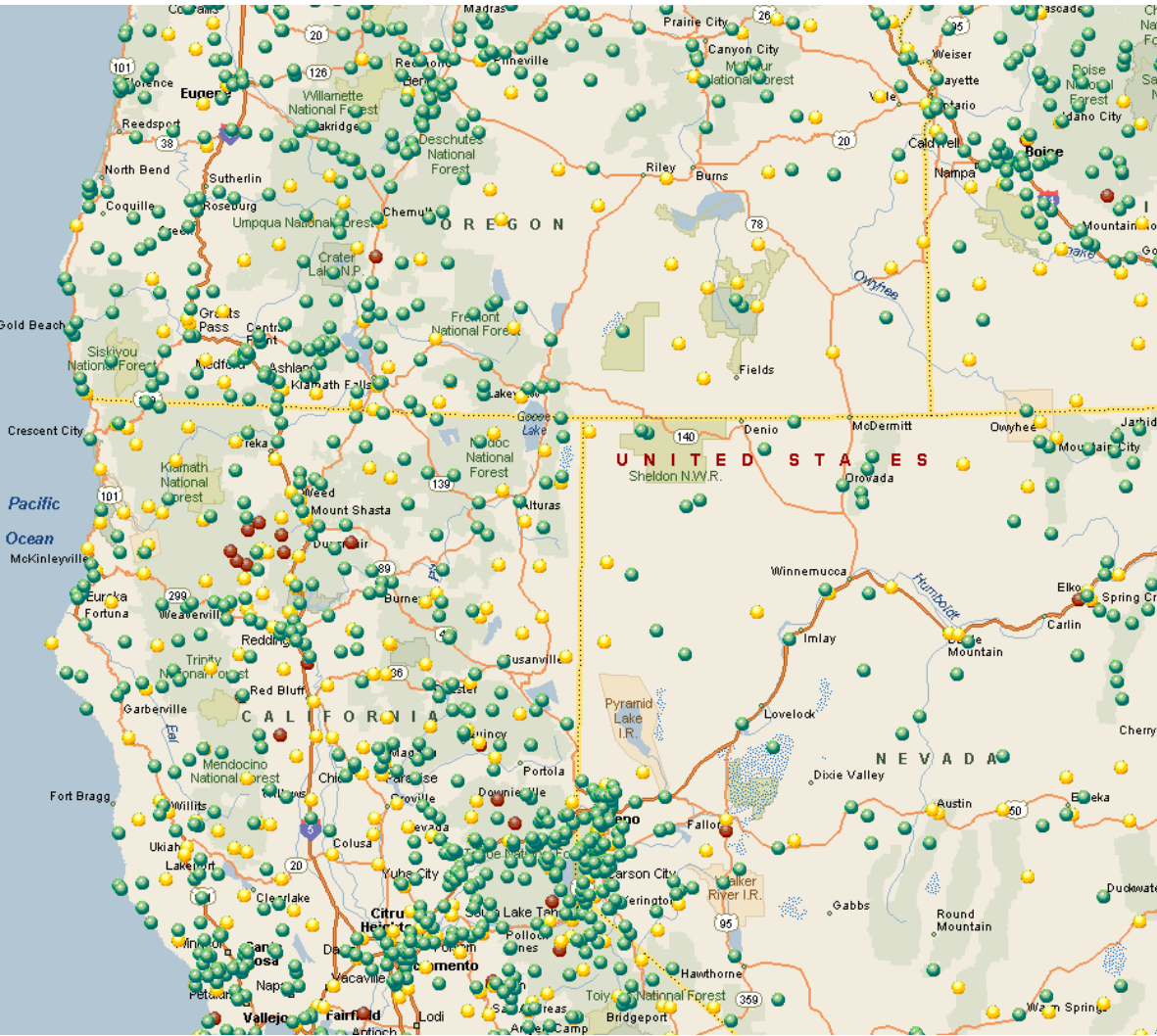
Variables (1 per line, until end of file)    VARIABLE LENGTH SECTION
----- (see doc/sfc_variable_list.txt)

TD
RH
P
T
DD
FF
PCP1H
PCP24H
PCPRATE
FUELM
FUELT
DDGUST
FFGUST
STALOC

```

	Station	Elev(m)	Lat(N)	Lon(E)	Grid I	Grid J	ObTime	Provider	T	QCD	QCA	QCR	
U-T	AT282	79.00	48.08557	-122.9244	0.000	0.000	20120510_1527	APRSWXNET	280.927765	S	59	0	
U-T	AT315	1323.00	42.06880	-121.4683	0.000	0.000	20120510_1526	APRSWXNET	276.483337	S	59	0	
U-T	AT510	137.90	47.75980	-122.3405	0.000	0.000	20120510_1529	APRSWXNET	280.372223	S	59	0	
U-T	AT582	110.00	47.24786	-122.4880	0.000	0.000	20120510_1529	APRSWXNET	280.372223	S	59	0	
U-T	AT620	1093.00	44.19341	-120.8249	0.000	0.000	20120510_1522	APRSWXNET	275.927765	S	59	0	
U-T	AT622	750.00	46.73000	-117.1690	0.000	0.000	20120510_1534	APRSWXNET	277.594452	S	59	0	
U-T	AT638	62.00	45.52432	-122.3751	0.000	0.000	20120510_1521	APRSWXNET	278.149994	S	59	0	
U-T	AT643	1942.00	34.35984	-117.6459	0.000	0.000	20120510_1530	APRSWXNET	292.594452	S	59	0	
U-T	AT889	1110.00	48.87450	-118.9642	0.000	0.000	20120510_1527	APRSWXNET	276.483337	S	59	0	
U-T	AT894	85.00	45.56413	-122.8405	0.000	0.000	20120510_1527	APRSWXNET	280.372223	S	59	0	
	Station	Elev(m)	Lat(N)	Lon(E)	Grid I	Grid J	ObTime	Provider	STALOC				
U-STALOC	ODT63	38.10	45.34213	-122.6349	0.000	0.000	20120510_1532	MesoWest	Canemah (OR 99E MP 14)				OR US ODOT
U-STALOC	ODT65	36.60	44.62280	-124.0573	0.000	0.000	20120510_1531	MesoWest	Yaquina Bridge Wind Alert 2 (US				OR US ODOT
U-STALOC	ODT70	1456.90	42.35260	-121.9826	0.000	0.000	20120510_1531	MesoWest	Doak Mountain (OR 140 MP 53.8)				OR US ODOT
U-STALOC	ODT71	1264.90	42.44413	-121.8681	0.000	0.000	20120510_1530	MesoWest	Modoc Point (US 97 MP 257.9)				OR US ODOT
U-STALOC	ODT72	7.60	43.98460	-124.0455	0.000	0.000	20120510_1530	MesoWest	Cushman (OR 126 MP 3)				OR US ODOT
U-STALOC	ODT80	779.70	44.54953	-117.4215	0.000	0.000	20120510_1530	MesoWest	Plano Road (I-84 MP 330.7)				OR US ODOT
U-STALOC	ODT81	679.70	44.26718	-117.1949	0.000	0.000	20120510_1530	MesoWest	Rye Valley(I-84 MP 340.4)				OR US ODOT
U-STALOC	KQLX	495.00	45.44000	-119.6900	0.000	0.000	20120510_1530	MesoWest	Lexington Airport AWOS				OR US PDTWFO
U-STALOC	MWQAI	271.30	45.71800	-120.1840	0.000	0.000	20120510_1529	MesoWest	Arlington Airport				OR US PDTWFO
U-STALOC	MWQCR	1360.00	43.43000	-121.7000	0.000	0.000	20120510_1532	MesoWest	Crescent				OR US PDTWFO
U-STALOC	MWQGV	253.90	46.25300	-119.8940	0.000	0.000	20120510_1530	MesoWest	Grandview				WA US PDTWFO
U-STALOC	MWQIA	127.10	46.43900	-119.0090	0.000	0.000	20120510_1532	MesoWest	Eltopia				WA US PDTWFO
U-STALOC	MWQUM	57.90	45.91644	-119.3340	0.000	0.000	20120510_1530	MesoWest	Umatilla				OR US PDTWFO
U-STALOC	CTANT	329.20	40.88480	-122.3826	0.000	0.000	20120510_1515	MesoWest	Antlers				CA US CALTRANS
U-STALOC	CTBBS	1202.40	41.35470	-122.3527	0.000	0.000	20120510_1520	MesoWest	Black Butte Summit				CA US CALTRANS
U-STALOC	CTBSN	825.10	40.65450	-122.7545	0.000	0.000	20120510_1505	MesoWest	Buckhorn Sandhouse				CA US CALTRANS
U-STALOC	CTOMS	869.90	40.73930	-122.9804	0.000	0.000	20120510_1520	MesoWest	Oregon Mountain Summit				CA US CALTRANS
U-STALOC	FLC03	128.00	44.87750	-123.4608	0.000	0.000	20120510_1530	MesoWest	Falls City				OR US PDXWFO
U-STALOC	RRW03	9.10	45.54000	-122.2800	0.000	0.000	20120510_1535	MesoWest	Rooster Rock				OR US PDXWFO
U-STALOC	SWT21	1959.90	48.36736	-116.6448	0.000	0.000	20120510_1500	MesoWest	Lakeview				ID US
U-STALOC	SWT22	1952.20	48.37936	-116.6336	0.000	0.000	20120510_1500	MesoWest	Great Escape				ID US
U-STALOC	CSHW1	231.60	47.42390	-123.2197	0.000	0.000	20120510_1500	MesoWest	Cushman Dam				WA US
	Station	Elev(m)	Lat(N)	Lon(E)	Grid I	Grid J	ObTime	Provider	T	QCD	QCA	QCR	
U-FFGUST	MWQIA	127.10	46.43900	-119.0090	0.000	0.000	20120510_1532	MesoWest	3.601111	S	19	0	
U-FFGUST	MWQUM	57.90	45.91644	-119.3340	0.000	0.000	20120510_1530	MesoWest	4.115556	C	3	0	
U-FFGUST	CTANT	329.20	40.88480	-122.3826	0.000	0.000	20120510_1515	MesoWest	9.723000	S	19	0	
U-FFGUST	CTBBS	1202.40	41.35470	-122.3527	0.000	0.000	20120510_1520	MesoWest	10.834200	S	19	0	
U-FFGUST	CTBSN	825.10	40.65450	-122.7545	0.000	0.000	20120510_1505	MesoWest	1.389000	S	19	0	
U-FFGUST	CTOMS	869.90	40.73930	-122.9804	0.000	0.000	20120510_1520	MesoWest	0.555600	S	19	0	
U-FFGUST	RRW03	9.10	45.54000	-122.2800	0.000	0.000	20120510_1535	MesoWest	0.000000	S	19	0	
U-FFGUST	SWT21	1959.90	48.36736	-116.6448	0.000	0.000	20120510_1500	MesoWest	9.388611	S	19	0	

MADIS Coverage



3,814,547 sfcdumpWSRTC20120510_1300.txt
 3,822,741 sfcdumpWSRTC20120510_1400.txt
 2,971,567 sfcdumpWSRTC20120510_1500.txt

National Weather Service Advanced Hydrological Prediction Service 24-hour Precipitation Data

This data set is updated twice per day at 17:45 UTC and 21:45 UTC. A download retrieves the dataset to correspond with posting of these updates.

NOTE: The NWS now posts 6 updates to this dataset per day. We may update our downloads accordingly.

The screenshot shows the National Weather Service (NWS) Advanced Hydrologic Prediction Service website. The main content area displays a map of the United States and Puerto Rico with a color-coded precipitation scale in inches, ranging from 0.01 (light blue) to 10 (white). The map shows precipitation data for May 10, 2012, with a legend on the right side. Below the map, there are four filter sections: 1. Timeframe (Current Data, Archive: Month/Year, Archive: Daily), 2. Product (Observed), 3. Location (States, NWS RFC/Regions, NWS WFOs), and 4. Units (English, Metric). The website header includes the NOAA logo, the NWS logo, and the text "National Weather Service Advanced Hydrologic Prediction Service". The page also features a search bar and various navigation links.

<http://water.weather.gov/precip/>

National Weather Service National Digital Forecast Database

www.nws.noaa.gov

National Weather Service
National Digital Forecast Database

Home News Organization Search NWS All NOAA Go

Home

Status of NDFD Elements as of March 1, 2012

Access Data

Development Status

Customer Support

FAQ

Background Information

Presentations

NDGD

General Information

NDFD
NWS National Digital Forecast Database

What is the NDFD?

As the foundation of the NWS Digital Services Program, the National Digital Forecast Database (NDFD) consists of gridded forecasts of sensible weather elements (e.g., cloud cover, maximum temperature). NDFD contains a seamless mosaic of digital forecasts from NWS field offices working in collaboration with the National Centers for Environmental Prediction (NCEP). The database is available for members of the public to use in creating text, graphic, gridded and image products of their own. Over time, NWS will offer a wider array of gridded forecast elements and a larger set of graphical presentations. [Access to the data and a description of NDFD elements can be found here.](#) The experimental NDFD data is **not** an official NWS forecast product.

The [Operations Concept](#) for the NWS Digital Services describes the transition the NWS is making as we implement the NDFD and presents our strategies for provision of digital services to meet the evolving needs of our customers and partners.

Find out more about how and why the [NDFD was created](#), the [weather elements in NDFD](#), [verification](#) and [future plans](#). See the navigation bar on the left for more links.

[Images of grids](#) for most NDFD elements are available online.

USA.gov
Government Made Easy

We download forecast data for the following data for up to three days covering all of CONUS (the contiguous US – the lower 48) if available:

- pop12 (12-hour Probability of Precipitation)
- temp (Temperature)
- wdir (Wind Direction)
- wspd (Wind Speed)
- sky (Sky Cover)
- qpf (Quantitative Precipitation Amount)
- snow (Snow Amount)
- wx (Weather)
- wgust (Wind Gust)
- rhm (Relative Humidity)

<http://www.nws.noaa.gov/ndfd/>

ODOT TripCheck

OREGON DEPARTMENT OF TRANSPORTATION

TripCheck

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- [North](#)
- [Northeast](#)
- [West](#)
- [Central](#)
- [East](#)
- [Southwest](#)
- [South](#)
- [Southeast](#)

Or City Map:

- [Bend](#)
- [Eugene](#)
- [La Grande](#)
- [Medford](#)
- [Portland](#)
- [Portland Metro](#)
- [Speed Map](#)
- [Salem](#)

Winter Travel

- [Chain Law](#)
- [Traction Tires](#)
- [Minimum Chain Requirements](#)
- [Winter Road Maintenance](#)

Welcome to TripCheck

Click on the map below or the links to the left to view road conditions within Oregon and its surrounding states.

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tripcheck.com/mobile
TripCheck Mobile

511 Travel Info

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<http://www.tripcheck.com/>

WSDOT Traveler Information API



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Traveler Information API

The Traveler Information Application Programming Interface is designed to provide third parties with a single gateway to all of WSDOT's traveler information data.

Data Type	Docs	WSDL	RSS	KML
Border Crossings	Doc	WSDL	RSS	KML Bing Maps Google Maps
Highway Alerts	Doc	WSDL	RSS	KML Bing Maps Google Maps
Highway Cameras	Doc	WSDL	RSS	KML Bing Maps Google Maps
Mountain Pass Conditions	Doc	WSDL	RSS	KML Bing Maps Google Maps
Traffic Flow	Doc	WSDL	RSS	KML Bing Maps Google Maps
Travel Times	Doc	WSDL	RSS	KML Bing Maps Google Maps
WSF Fares		WSDL		
WSF Schedule		WSDL		
WSF Terminals		WSDL		

To use WSDL services you must be assigned an Access Code. Please enter your email address to receive your code. Your email address will not be shared and will be used only to notify you of changes to our services.

<http://www.wsdot.wa.gov/Traffic/api/default.aspx>

MesoWest – University of Utah

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[Current Status](#)
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MESO WEST 

States
Click on a State to access weather observations



[States](#) [CWAs](#) [Text Only](#)

Observations and Summaries

Region Rocky Mountain GCA **Product** Surface Weather Maps 

[University of Utah](#) [Department of Atmospheric Sciences](#)
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For Questions or Comments about this page or MesoWest contact atmos-mesowest@lists.utah.edu

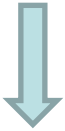
<http://mesowest.utah.edu/>

Download

```

523,883 mesowest20100511_1043.dat.gz
556,563 mesowest20100511_1058.dat.gz
585,019 mesowest20100511_1113.dat.gz
727,573 mesowest20100511_1129.dat.gz
525,371 mesowest20100511_1143.dat.gz

```



Un-Compress

```

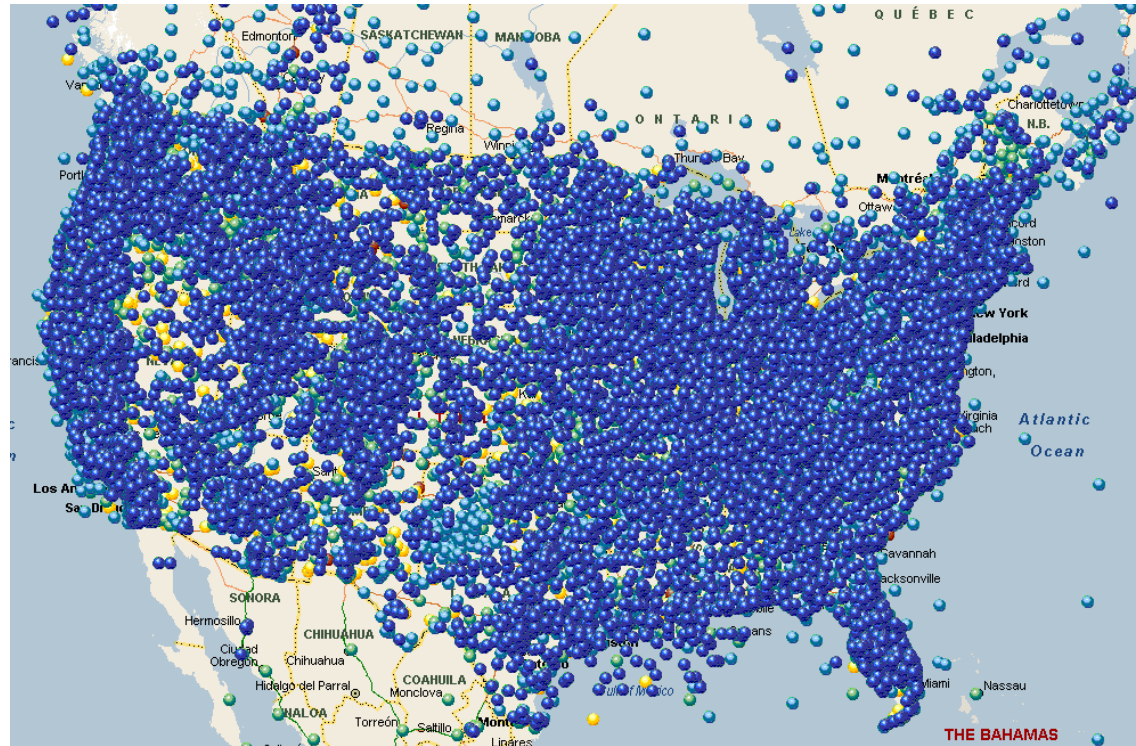
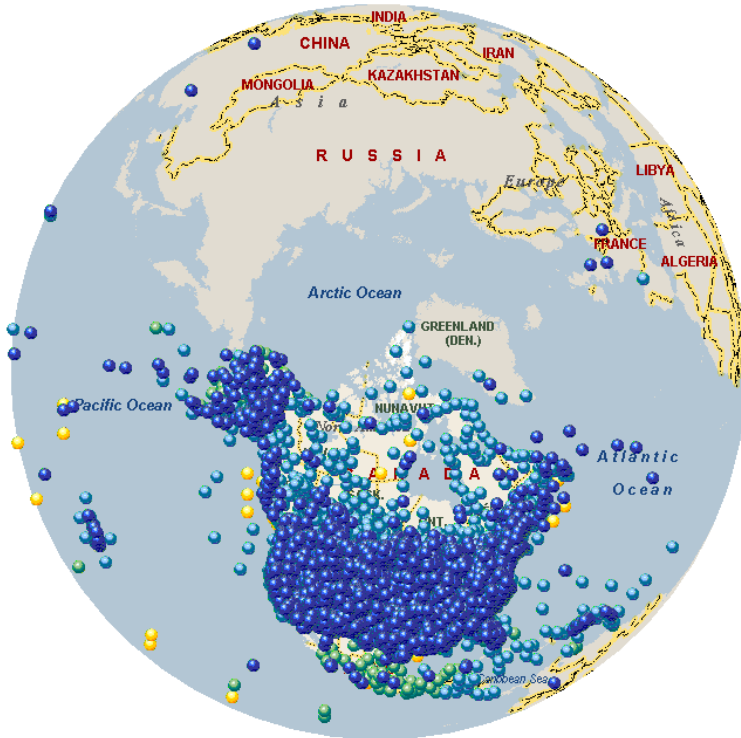
3,031,048 mesowest20100511_1043.dat
3,202,383 mesowest20100511_1058.dat
3,393,510 mesowest20100511_1113.dat
4,453,744 mesowest20100511_1129.dat
2,977,381 mesowest20100511_1143.dat

```

The MesoWest dataset and the associated download is large:

At present we download and use the most recent file. We download every 15 minutes.

- mesowest20100511_1143
- mesowest20100511_1129
- mesowest20100511_1113
- mesowest20100511_1058
- mesowest20100511_1043



mesowest.dat

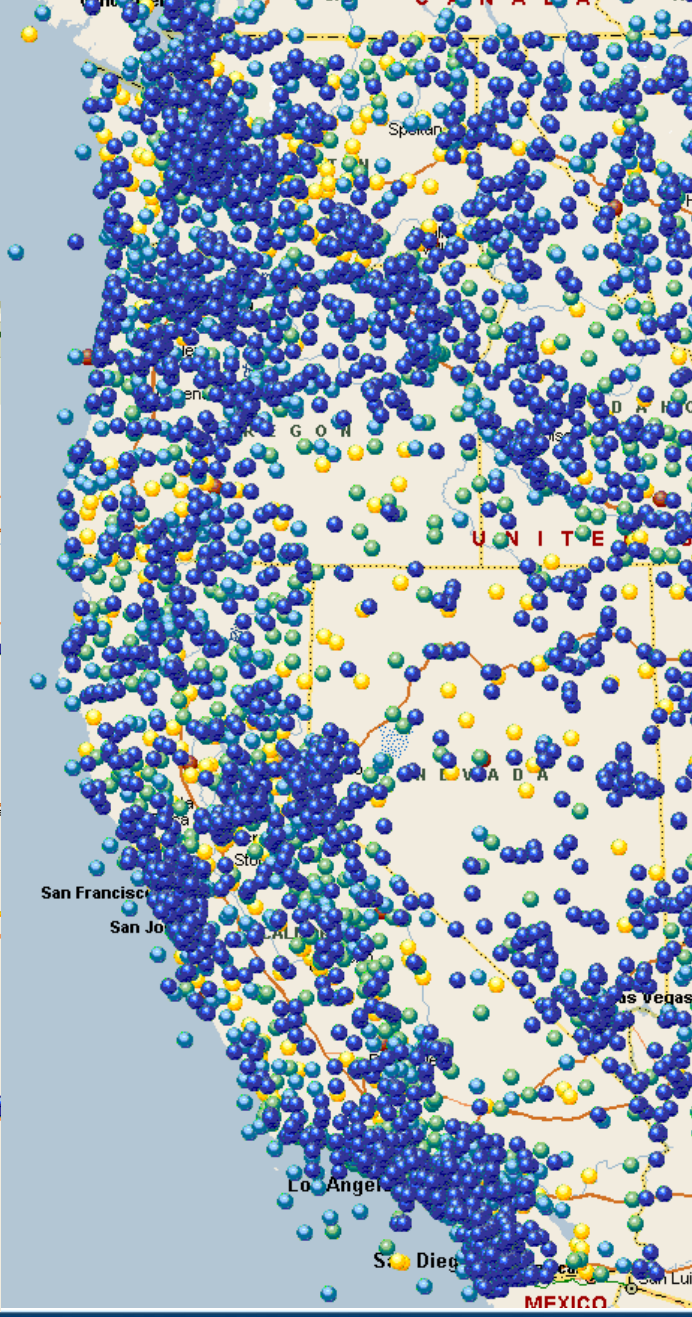
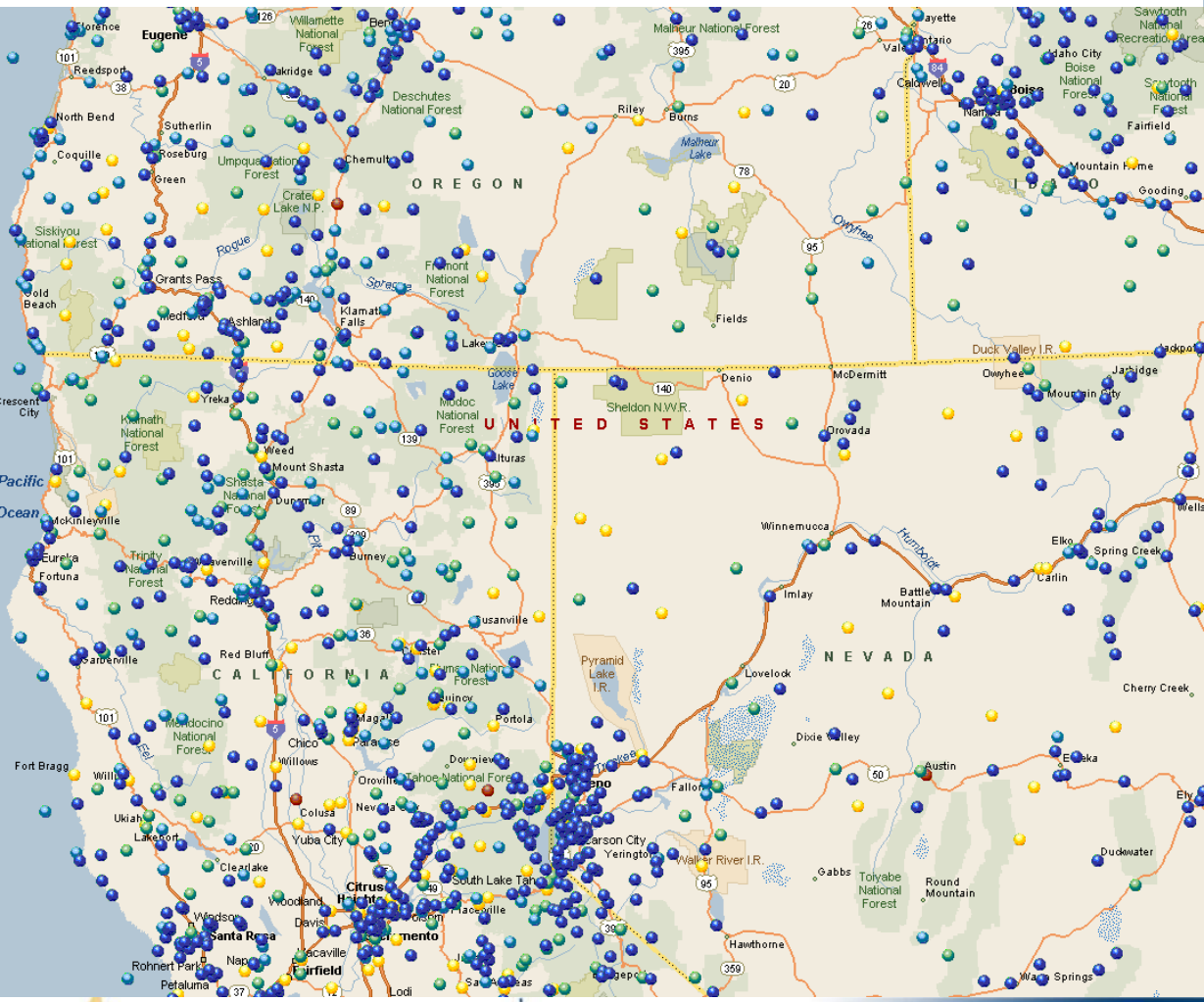
PARM = TMPF;RELH;SKNT;GUST;DRCT;QFLG;DWPFF;PRES;PMSL;ALTI;P03D;SOLR;WNUM;USBY;CHC1;CHC2;CHC3;CIG;TLKE;FT;FM;HI6;LO6;PEAK;HI24;LO24;PREC;P011;P031;P061;P241;P051;P101;P151;SNOW;PACM;SACM;WEQS;P30I;PWUP;TSOI;MSOI;STEN;TSRD;EVAP;TRD1;TRD2;TRD3;TRD4;TFZ1;TFZ2;TFZ3;TFZ4;RSS1;RSS2;RSS3;RSS4

```

W00M8,47.99,-114.06,2949,55,20120511/1717,,,,,4.34,,2,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
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CTAND,41.79080,-122.58850,2963,59,20120511/1600,54.14,46,2.7,8.64,10,2,33.82,,,,,0,,,,,,,,,,,,,51.62,51.62,,,,,,,,,,,,,
CTANT,40.8848,-122.3826,1080,59,20120511/1600,66.74,23,4.32,8.1,0,2,27.76,,,,,0,,,,,,,,,,,,,80.6,76.46,,,,,,,,,,,,,
CTBBS,41.3547,-122.3527,3945,59,20120511/1605,51.8,31,10.26,16.74,310,2,22.14,,,,,0,,,,,,,,,,,,,66.74,,66.74,58.28,65.12,,,,,,,,,,,,,
CTBOG,40.58570,-121.08830,5659,59,20120511/1600,49.64,36,4.86,8.1,280,1,23.79,,,,,41,,,,,,,,,,,,,69.26,,76.64,78.62,,,,,,,,,,,,,
CTBSN,40.6545,-122.7545,2707,59,20120511/1605,51.8,52,3.24,4.86,265,2,34.74,,,,,0,,,,,,,,,,,,,74.48,,78.62,78.8,,,,,,,,,,,,,
CTDUN,41.2100,-122.2747,2500,59,20120511/1650,63.14,21,3.24,9.18,325,2,22.57,,,,,0,,,,,,,,,,,,,69.08,,158.36,76.64,80.96,,,,,,,,,,,,,
CTFPE,40.39,-120.79,4695,59,20120511/1655,56.48,21,2.16,5.94,100,2,17.03,,,,,0,,,,,,,,,,,,,65.3,,92.66,85.82,,,,,,,,,,,,,
CTFYP,40.3603,-120.8653,5701,59,20120511/1555,47.66,23,3.78,6.48,75,2,11.71,,,,,0,,,,,,,,,,,,,66.02,,74.66,72.14,61.34,,,,,,,,,,,,,
CTHAT,40.85216,-121.76199,4366,59,20120511/1655,50.9,33,0.54,5.4,275,1,22.83,,,,,41,,,,,,,,,,,,,75.02,77,,,,,,,,,,,,,
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CTHRN,41.9103,-122.5678,2280,59,20120511/1600,55.4,50,2.16,5.4,95,2,37.07,,,,,0,,,,,,,,,,,,,70.16,,72.5,69.98,,,,,,,,,,,,,
CTOMS,40.7393,-122.9804,2854,59,20120511/1605,57.2,42,1.08,2.7,240,2,34.32,,,,,0,,,,,,,,,,,,,71.96,,74.66,75.56,,,,,,,,,,,,,
CTSNS,41.2690,-122.2114,4478,59,20120511/1650,54.14,39,2.7,5.4,235,2,29.73,,,,,0,,,,,,,,,,,,,65.66,,82.22,82.94,,,,,,,,,,,,,
CTSPG,39.9117,-120.8118,3860,59,20120511/1655,56.48,38,1.08,4.86,5,2,31.18,,,,,0,,,,,,,,,,,,,69.08,,79.34,83.84,84.02,81.86,,,,,,,,,,,,,
AIRGL,26.73900,-81.05300,14,60,20120511/1645,83.66,69.72,9.06,,72,2,72.69,,,,,942,,,,,,,,,,,,,82.29,,,,,,,,,,,,,
AIRGL,26.73900,-81.05300,14,60,20120511/1700,84.13,69.46,9.87,,68,2,73.03,,,,,917,,,,,,,,,,,,,83.1,,,,,,,,,,,,,
ALHF1,29.8030,-82.41000,148,60,20120511/1645,80.26,42.36,4.48,,98,2,55.29,,,,,781,,,,,,,,,,,,,77.04,,,,,,,,,,,,,
ALHF1,29.8030,-82.41000,148,60,20120511/1700,80.76,40.48,5.99,,103,2,54.49,,,,,924,,,,,,,,,,,,,77.49,,,,,,,,,,,,,
ARCAD,27.22000,-81.83800,72,60,20120511/1645,86.18,49.64,9.06,,107,2,65.12,,,,,834,,,,,,,,,,,,,82.62,,,,,,,,,,,,,

```


MesoWest Coverage



Caltrans – old sources

- [http://www.dot.ca.gov/research/its/data/cms/cmsStatusD\[01-12\].txt](http://www.dot.ca.gov/research/its/data/cms/cmsStatusD[01-12].txt)
- <http://www.dot.ca.gov/dist3/departments/traffic/cameras/>
- [http://www.dot.ca.gov/dist2/chainup/docs/exportSummary.txt\(d2\)](http://www.dot.ca.gov/dist2/chainup/docs/exportSummary.txt(d2))
- http://www.dot.ca.gov/travel/dist_02/lcs/lane_closures_d2.txt
- <http://www.dot.ca.gov/hq/maint/ra/Statewide.htm>
- Various CCTV URLs

Cameras

Description

The Closed Circuit Television (CCTV) files provided below describe the location and status of each Caltrans' CCTV located on the State Highway Network.

File formats include CSV, JSON, TXT and XML. Each file format contains the same data set. These files are available for integration into your application and are available via the HTTP protocol. There is no charge for the use of this data.

Conditions of Use

Please read the [Conditions Of Use](#) before using these data sets.

Data Format and File Layout

Data is available in four file formats that contain the same information to allow easy integration into your application. Included below are the file format layouts:

- [CSV](#) - Comma Separated Values
- [JSON](#) - JavaScript Object Notation
- [TXT](#) - Text file with delimiter value of "\n" or 0xFF
- [XML](#) - Extensible Markup Language

Data Description

Data in each of these file formats are defined in the following documents:

- [Field description](#) - Describes field number, field name, description, type, nominal value, example value and which file format field is used
- [District Reporting Matrix](#) - Describes which Districts are reporting data in each field
- [District Map and County Chart](#) - Shows the relationship of Districts to counties
- [Route Chart](#) - Lists the state highway routes
- [Postmile Prefix / Route Suffix / Alignment Charts](#) - Decodes the values reported in the Postmile Prefix, Route Suffix and Alignment fields

Data Validation

An XML schema document is provided to validate the data in the XML file:

- [XML Schema](#)

File Locations

Data sets are broken up by Caltrans Districts. A map of the Caltrans Districts can be found [here](#). Files are updated on an as needed basis.

• CSV Format

District	File Last Updated	File URL
1	Friday, 04-May-2012 23:55:45 PDT	http://www.dot.ca.gov/cwmp2/data/d1/cctv/cctvStatusD01.csv
2	Friday, 11-May-2012 14:27:05 PDT	http://www.dot.ca.gov/cwmp2/data/d2/cctv/cctvStatusD02.csv
3	Monday, 16-Apr-2012 23:24:49 PDT	http://www.dot.ca.gov/cwmp2/data/d3/cctv/cctvStatusD03.csv
4	Friday, 27-Apr-2012 18:46:41 PDT	http://www.dot.ca.gov/cwmp2/data/d4/cctv/cctvStatusD04.csv
5	Friday, 27-Apr-2012 18:47:36 PDT	http://www.dot.ca.gov/cwmp2/data/d5/cctv/cctvStatusD05.csv
6	Monday, 16-Apr-2012 23:25:24 PDT	http://www.dot.ca.gov/cwmp2/data/d6/cctv/cctvStatusD06.csv
7	Friday, 27-Apr-2012 18:36:25 PDT	http://www.dot.ca.gov/cwmp2/data/d7/cctv/cctvStatusD07.csv
8	Monday, 16-Apr-2012 23:25:50 PDT	http://www.dot.ca.gov/cwmp2/data/d8/cctv/cctvStatusD08.csv

Caltrans : New Source – CWWP2

Changeable Message Signs

Description

The Changeable Message Sign (CMS) files provided below describe the location and status of each Caltrans' CMS located on the State Highway Network.

File formats include CSV, JSON, TXT and XML. Each file format contains the same data set. These files are available for integration into your application and are available via the HTTP protocol. There is no charge for the use of this data.

Conditions of Use

Please read the [Conditions Of Use](#) before using these data sets.

Data Format and File Layout

Data is available in four file formats that contain the same information to allow easy integration into your application. Included below are the file format layouts:

- [CSV](#) - Comma Separated Values
- [JSON](#) - JavaScript Object Notation
- [TXT](#) - Text file with delimiter value of "\n" or 0xFF
- [XML](#) - Extensible Markup Language

Data Description

Data in each of these file formats are defined in the following documents:

- [Field description](#) - Describes field number, field name, description, type, nominal value, example value and which file format field is used
- [District Reporting Matrix](#) - Describes which Districts are reporting data in each field
- [District Map and County Chart](#) - Shows the relationship of Districts to counties
- [Route Chart](#) - Lists the state highway routes
- [Postmile Prefix / Route Suffix / Alignment Charts](#) - Decodes the values reported in the Postmile Prefix, Route Suffix and Alignment fields

Data Validation

An XML schema document is provided to validate the data in the XML file:

- [XML Schema](#)

File Locations

Data sets are broken up by Caltrans Districts. A map of the Caltrans Districts can be found [here](#).

• CSV Format

District	File Update Frequency	File URL
1	once a minute	http://www.dot.ca.gov/cwmp2/data/d1/cms/cmsStatusD01.csv
2	once a minute	http://www.dot.ca.gov/cwmp2/data/d2/cms/cmsStatusD02.csv
3	once a minute	http://www.dot.ca.gov/cwmp2/data/d3/cms/cmsStatusD03.csv
4	once a minute	http://www.dot.ca.gov/cwmp2/data/d4/cms/cmsStatusD04.csv
5	once a minute	http://www.dot.ca.gov/cwmp2/data/d5/cms/cmsStatusD05.csv
6	once a minute	http://www.dot.ca.gov/cwmp2/data/d6/cms/cmsStatusD06.csv
7	once a minute	http://www.dot.ca.gov/cwmp2/data/d7/cms/cmsStatusD07.csv
8	once a minute	http://www.dot.ca.gov/cwmp2/data/d8/cms/cmsStatusD08.csv
9	once a minute	http://www.dot.ca.gov/cwmp2/data/d9/cms/cmsStatusD09.csv
10	once a minute	http://www.dot.ca.gov/cwmp2/data/d10/cms/cmsStatusD10.csv
11	once a minute	http://www.dot.ca.gov/cwmp2/data/d11/cms/cmsStatusD11.csv
12	once a minute	http://www.dot.ca.gov/cwmp2/data/d12/cms/cmsStatusD12.csv

• JSON Format

District	File Update Frequency	File URL
1	once a minute	http://www.dot.ca.gov/cwmp2/data/d1/cms/cmsStatusD01.json



Caltrans – new source – CWWP2

index,recordDate,recordTime,district,locationName,nearbyPlace,longitude,latitude,elevation,direction,county,route,routeSuffix,postmilePrefix,postmile,alignment,milepost,inservice,imageDescription,streamingVideoURL,currentImageUpdateFrequency,currentImageURL,referenceImageUpdateFrequency,referenceImage1UpdateAgouURL,referenceImage2UpdateAgouURL,referenceImage3UpdateAgouURL,referenceImage4UpdateAgouURL,referenceImage5UpdateAgouURL,referenceImage6UpdateAgouURL,referenceImage7UpdateAgouURL,referenceImage8UpdateAgouURL,referenceImage9UpdateAgouURL,referenceImage10UpdateAgouURL,referenceImage11UpdateAgouURL,referenceImage12UpdateAgouURL

1,2012-05-04,16:55:41,1,"SR-1 : Ten Mile River Bridge","Fort Bragg",-123.762336,39.550158,39,North,Mendocino,SR-1,,.69.97,.621.16,true,North,"Not Reported",15,http://www.dot.ca.gov/dist1/d1tnc/hwypix/m1p70n-1.jpg,60,http://www.dot.ca.gov/dist1/d1tnc/hwypix/m1p70n-1.jpg,http://www.dot.ca.gov/dist1/d1tnc/hwypix/m1p70n-2.jpg,http://www.dot.ca.gov/dist1/d1tnc/hwypix/m1p70n-3.jpg,http://www.dot.ca.gov/dist1/d1tnc/hwypix/m1p70n-4.jpg,http://www.dot.ca.gov/dist1/d1tnc/hwypix/m1p70n-5.jpg,http://www.dot.ca.gov/dist1/d1tnc/hwypix/m1p70n-6.jpg,http://www.dot.ca.gov/dist1/d1tnc/hwypix/m1p70n-7.jpg,http://www.dot.ca.gov/dist1/d1tnc/hwypix/m1p70n-8.jpg,http://www.dot.ca.gov/dist1/d1tnc/hwypix/m1p70n-9.jpg,http://www.dot.ca.gov/dist1/d1tnc/hwypix/m1p70n-10.jpg,http://www.dot.ca.gov/dist1/d1tnc/hwypix/m1p70n-11.jpg,http://www.dot.ca.gov/dist1/d1tnc/hwypix/m1p70n-12.jpg

2-0,2012-05-04,16:55:41,1,"SR-20 : At SR-1","Fort Bragg",-123.807816,39.420195,East,Mendocino,SR-20,,R,0.01,,0.01,true,North,"Not Reported",15,http://www.dot.ca.gov/dist1/d1tnc/hwypix/m20p1-1.jpg,60,http://www.dot.ca.gov/dist1/d1tnc/hwypix/m20p1-1.jpg,http://www.dot.ca.gov/dist1/d1tnc/hwypix/m20p1-2.jpg,http://www.dot.ca.gov/dist1/d1tnc/hwypix/m20p1-3.jpg,http://www.dot.ca.gov/dist1/d1tnc/hwypix/m20p1-4.jpg,http://www.dot.ca.gov/dist1/d1tnc/hwypix/m20p1-5.jpg,http://www.dot.ca.gov/dist1/d1tnc/hwypix/m20p1-6.jpg,http://www.dot.ca.gov/dist1/d1tnc/hwypix/m20p1-7.jpg,http://www.dot.ca.gov/dist1/d1tnc/hwypix/m20p1-8.jpg,http://www.dot.ca.gov/dist1/d1tnc/hwypix/m20p1-9.jpg,http://www.dot.ca.gov/dist1/d1tnc/hwypix/m20p1-10.jpg,http://www.dot.ca.gov/dist1/d1tnc/hwypix/m20p1-11.jpg,http://www.dot.ca.gov/dist1/d1tnc/hwypix/m20p1-12.jpg

2-1,2012-05-04,16:55:41,1,"SR-20 : At SR-1","Fort Bragg",-123.807816,39.420195,East,Mendocino,SR-20,,R,0.01,,0.01,true,North-Zoom,"Not Reported",15,http://www.dot.ca.gov/dist1/d1tnc/hwypix/m20p1-1.jpg,60,http://www.dot.ca.gov/dist1/d1tnc/hwypix/m20p1-1.jpg,http://www.dot.ca.gov/dist1/d1tnc/hwypix/m20p1-2.jpg,http://www.dot.ca.gov/dist1/d1tnc/hwypix/m20p1-3.jpg,http://www.dot.ca.gov/dist1/d1tnc/hwypix/m20p1-4.jpg,http://www.dot.ca.gov/dist1/d1tnc/hwypix/m20p1-5.jpg,http://www.dot.ca.gov/dist1/d1tnc/hwypix/m20p1-6.jpg,http://www.dot.ca.gov/dist1/d1tnc/hwypix/m20p1-7.jpg,http://www.dot.ca.gov/dist1/d1tnc/hwypix/m20p1-8.jpg,http://www.dot.ca.gov/dist1/d1tnc/hwypix/m20p1-9.jpg,http://www.dot.ca.gov/dist1/d1tnc/hwypix/m20p1-10.jpg,http://www.dot.ca.gov/dist1/d1tnc/hwypix/m20p1-11.jpg,http://www.dot.ca.gov/dist1/d1tnc/hwypix/m20p1-12.jpg

2-2,2012-05-04,16:55:41,1,"SR-20 : At SR-1","Fort Bragg",-123.807816,39.420195,East,Mendocino,SR-20,,R,0.01,,0.01,true,East,"Not Reported",15,http://www.dot.ca.gov/dist1/d1tnc/hwypix/m20p1-1.jpg,60,http://www.dot.ca.gov/dist1/d1tnc/hwypix/m20p1-1.jpg,http://www.dot.ca.gov/dist1/d1tnc/hwypix/m20p1-2.jpg,http://www.dot.ca.gov/dist1/d1tnc/hwypix/m20p1-3.jpg,http://www.dot.ca.gov/dist1/d1tnc/hwypix/m20p1-4.jpg,http://www.dot.ca.gov/dist1/d1tnc/hwypix/m20p1-5.jpg,http://www.dot.ca.gov/dist1/d1tnc/hwypix/m20p1-6.jpg,http://www.dot.ca.gov/dist1/d1tnc/hwypix/m20p1-7.jpg,http://www.dot.ca.gov/dist1/d1tnc/hwypix/m20p1-8.jpg,http://www.dot.ca.gov/dist1/d1tnc/hwypix/m20p1-9.jpg,http://www.dot.ca.gov/dist1/d1tnc/hwypix/m20p1-10.jpg,http://www.dot.ca.gov/dist1/d1tnc/hwypix/m20p1-11.jpg,http://www.dot.ca.gov/dist1/d1tnc/hwypix/m20p1-12.jpg

2-3,2012-05-04,16:55:41,1,"SR-20 : At SR-1","Fort Bragg",-123.807816,39.420195,East,Mendocino,SR-20,,R,0.01,,0.01,true,East-Zoom,"Not Reported",15,http://www.dot.ca.gov/dist1/d1tnc/hwypix/m20p1-1.jpg,60,http://www.dot.ca.gov/dist1/d1tnc/hwypix/m20p1-1.jpg,http://www.dot.ca.gov/dist1/d1tnc/hwypix/m20p1-2.jpg,http://www.dot.ca.gov/dist1/d1tnc/hwypix/m20p1-3.jpg,http://www.dot.ca.gov/dist1/d1tnc/hwypix/m20p1-4.jpg,http://www.dot.ca.gov/dist1/d1tnc/hwypix/m20p1-5.jpg,http://www.dot.ca.gov/dist1/d1tnc/hwypix/m20p1-6.jpg,http://www.dot.ca.gov/dist1/d1tnc/hwypix/m20p1-7.jpg,http://www.dot.ca.gov/dist1/d1tnc/hwypix/m20p1-8.jpg,http://www.dot.ca.gov/dist1/d1tnc/hwypix/m20p1-9.jpg,http://www.dot.ca.gov/dist1/d1tnc/hwypix/m20p1-10.jpg,http://www.dot.ca.gov/dist1/d1tnc/hwypix/m20p1-11.jpg,http://www.dot.ca.gov/dist1/d1tnc/hwypix/m20p1-12.jpg

index,recordDate,recordTime,district,locationName,nearbyPlace,longitude,latitude,elevation,direction,county,route,routeSuffix,postmilePrefix,postmile,alignment,milepost,inservice,messageDate,messageTime,display,displayTime,phase1Font,phase1Line1,phase1Line2,phase1Line3,phase2Font,phase2Line1,phase2Line2,phase2Line3

1,2012-05-11,14:32:00,1,"1 - Men 101 PM 31.6 - N of 101/20 Calpella - FSBT","Redwood Valley",-123.218985,39.249675,761,South,Mendocino,US-101,,R,31.55,,555.9,true,2012-05-06,06:24:16,"One Page",0,"Single Stroke",,"SLOW OR MOVE","OVER FOR WORKERS","IT'S THE LAW","Single Stroke",,,

2,2012-05-11,14:32:00,1,"2 - Men 101 PM 29.8 - S of 101/20 Calpella - FNBHT","Ukiah",-123.207213,39.225283,741,North,Mendocino,US-101,,.29.81,,554.22,true,2012-05-06,16:57:06,"One Page",0,"Single Stroke",,"SLOW OR MOVE","OVER FOR WORKERS","IT'S THE LAW","Single Stroke",,,

3,2012-05-11,14:32:00,1,"3 - Hum 101 PM 58.7 - N of Jct 36 - FSBT","Fortuna",-124.147953,40.56276,49,South,Humboldt,US-101,,.58.67,,686.02,true,2012-05-11,06:04:44,"One Page",0,"Single Stroke",,"MAY IS","BIKE MONTH","SHARE THE ROAD","Single Stroke",,,

4,2012-05-11,14:32:00,1,"4 - Hum 101 PM 87.7 - S of 101/299 - FNBHT","Arcata",-124.07933,40.88913,82,North,Humboldt,US-101,,.87.67,,714.96,true,2012-05-11,06:04:44,"One Page",0,"Single Stroke",,"MAY IS","BIKE MONTH","SHARE THE ROAD","Single Stroke",,,

5,2012-05-11,14:32:00,1,"5 - Hum 101 PM 89.4 - N of 101/299 - FSBT","Arcata",-124.091812,40.912415,26,South,Humboldt,US-101,,.89.38,,716.66,true,2012-05-11,06:04:44,"One Page",0,"Single Stroke",,"MAY IS","BIKE MONTH","SHARE THE ROAD","Single Stroke",,,

6,2012-05-11,14:32:00,1,"6 - Men 20 PM 35.6 - E of 101/20 Calpella - FMBT","Redwood Valley",-123.167599,39.238016,925,West,Mendocino,SR-20,,.35.58,,35.54,true,2012-05-06,06:24:17,"One Page",0,"Single Stroke",,"SLOW OR MOVE","OVER FOR WORKERS","IT'S THE LAW","Single Stroke",,,

7,2012-05-11,14:32:00,1,"7 - Men 20 PM 32.29 - W of Willits - FMBT","Willits",-123.369739,39.406104,1443,West,Mendocino,SR-20,,.32.2,,32.12,true,2012-05-06,06:24:16,"One Page",0,"Single Stroke",,"SLOW OR MOVE","OVER FOR WORKERS","IT'S THE LAW","Single Stroke",,,

8,2012-05-11,14:32:00,1,"8 - Men 101 PM 48.53 - N of Willits - FNBHT","Willits",-123.358293,39.43344,1338,North,Mendocino,US-101,,.48.53,,573.02,true,2012-05-06,06:24:17,"One Page",0,"Single Stroke",,"SLOW OR MOVE","OVER FOR WORKERS","IT'S THE LAW","Single Stroke",,,

9,2012-05-11,14:32:00,1,"9 - Lak 20 PM 7.7 - W of Jct 29 - FEBT","Upper Lake",-122.92962,39.167146,1361,East,Lake,SR-20,,.7.79,,51.75,true,2012-05-06,06:24:16,"One Page",0,"Single Stroke",,"SLOW OR MOVE","OVER FOR WORKERS","IT'S THE LAW","Single Stroke",,,

10,2012-05-11,14:32:00,1,"10 - Lak 20 PM 30.45 - W of Jct 53 - FEBT","Clearlake Oaks",-122.630779,39.012704,1587,East,Lake,SR-20,,.30.65,,74.61,true,2012-04-26,17:26:17,Blank,0,"Single Stroke",,,,"Single Stroke",,,

11,2012-05-11,14:32:00,1,"11 - Lak 20 PM 31.94 - E of Jct 53 - FMBT","Clearlake Oaks",-122.604277,39.01233,1745,West,Lake,SR-20,,.32.23,,76.22,true,2012-03-19,08:00:26,Blank,0,"Single Stroke",,,,"Single Stroke",,,

12,2012-05-11,14:32:00,1,"12 - Lak 53 PM 5.1 - S of Jct 53 - FNBHT","Clearlake Oaks",-122.612666,38.980376,1427,North,Lake,SR-53,,.5.14,,5.14,true,2012-05-06,06:24:20,"One Page",0,"Single Stroke",,"SLOW OR MOVE","OVER FOR WORKERS","IT'S THE LAW","Single Stroke",,,

13,2012-05-11,14:32:00,1,"13 - Hum 101 PM 55.96 - S of Jct 36 - FNBHT","Fortuna",-124.150183,40.525289,78,North,Humboldt,US-101,,.55.98,,683.34,true,2012-05-11,06:04:44,"One Page",0,"Single Stroke",,"MAY IS","BIKE MONTH","SHARE THE ROAD","Single Stroke",,,

14,2012-05-11,14:32:00,1,"14 - DN 101 PM 28.5 - S of 101/199 - FNBHT","Crescent City",-124.179497,41.779637,72,North,"Del Norte",US-101,,R,28.51,,791.55,true,2012-05-06,06:24:16,"One Page",0,"Single Stroke",,"SLOW OR MOVE","OVER FOR WORKERS","IT'S THE LAW","Single Stroke",,,

15,2012-05-11,14:32:00,1,"15 - DN 101 PM 37.54 - N of 101/197 - FSBT","Smith River",-124.137094,41.899567,91,South,"Del Norte",US-101,,.37.56,,800.52,true,2012-05-06,06:24:17,"One Page",0,"Single Stroke",,"SLOW OR MOVE","OVER FOR WORKERS","IT'S THE LAW","Single Stroke",,,

16,2012-05-11,14:32:00,1,"16 - DN 199 PM 36.1 - S of State Line - FSBT","Gasquet",-123.719809,41.993307,1765,South,"Del Norte",US-199,,.36.11,,35.91,true,2012-05-06,06:24:17,"One Page",0,"Single Stroke",,"SLOW OR MOVE","OVER FOR WORKERS","IT'S THE LAW","Single Stroke",,,

17,2012-05-11,14:32:00,1,"17 - DN 101 PM 22.37 - Cushing Creek - FSBT","Klamath",-124.13765,41.719817,561,South,"Del Norte",US-101,,.22.41,,785.49,true,2012-05-06,06:24:49,"One Page",0,"Single Stroke",,"SLOW OR MOVE","OVER FOR WORKERS","IT'S THE LAW","Single Stroke",,,

18,2012-05-11,14:32:00,1,"18 - DN 101 PM 20.57 - Cushing Creek - FNBHT","Klamath",-124.126438,41.705665,1056,North,"Del Norte",US-101,,.20.78,,783.84,true,2012-05-06,06:24:48,"One Page",0,"Single Stroke",,"SLOW OR MOVE","OVER FOR WORKERS","IT'S THE LAW","Single Stroke",,,

19,2012-05-11,14:32:00,1,"19 - Men 20 PM 0.25 FT. Bragg FEBT","Fort Bragg",-123.803047,39.419186,82,East,Mendocino,SR-20,,R,0.26,,0.27,true,2012-05-06,06:27:38,Blank,0,"Single Stroke",,,,"Single Stroke",,B

CHP

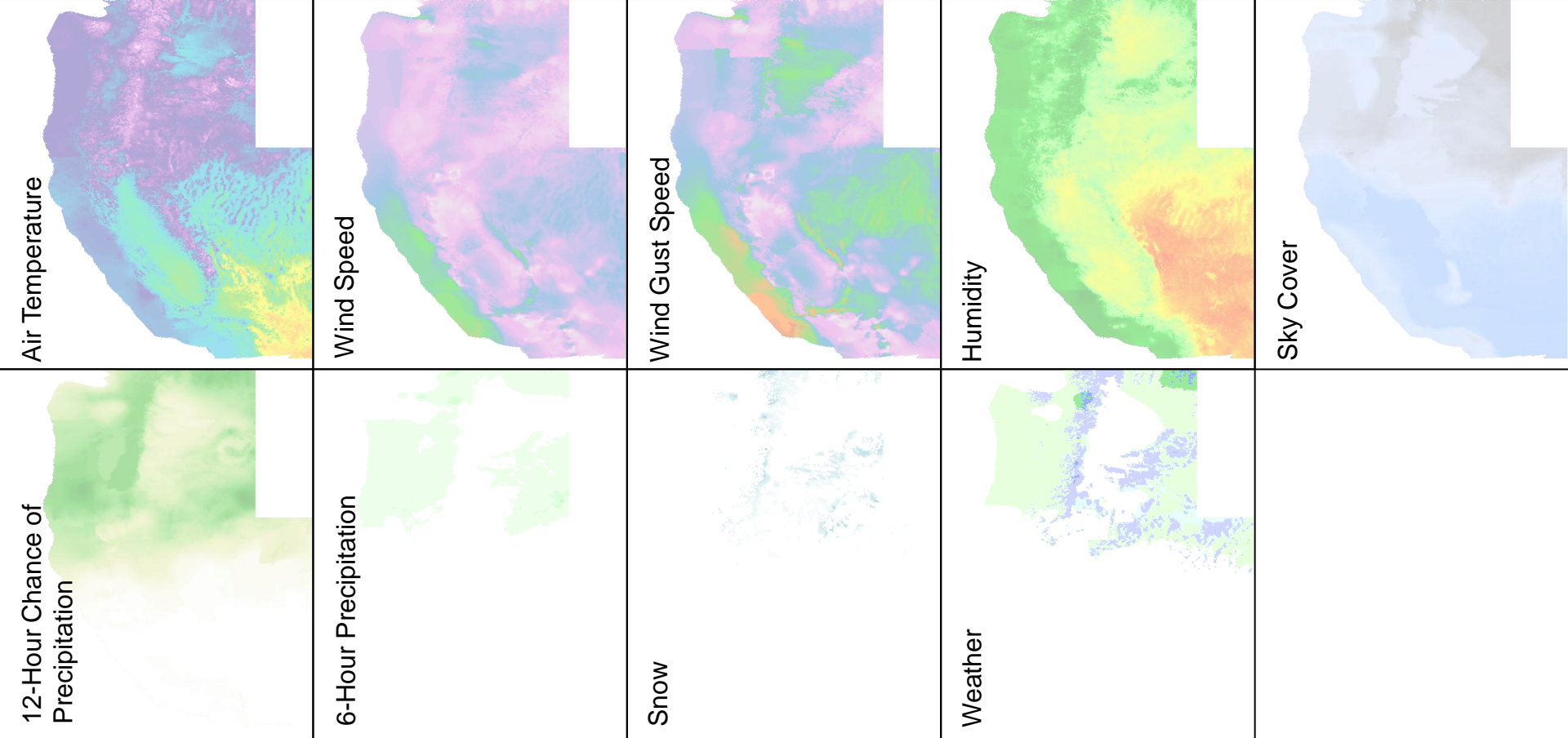
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  <LogTime>"5/11/2012 1:29:19 PM" </LogTime>  
  <LogType>"TADV - Traffic Advisory" </LogType>  
  <Location>"NB I215 JNO S IOWA AV" </Location>  
  <Area>"Inland Communications Center" </Area>  
  <ThomasBrothers>"646 5C" </ThomasBrothers>  
  <TBXY>"6232796:2317915" </TBXY>  
  - <LogDetails>  
    - <details>  
      <DetailTime>" 1:29PM" </DetailTime>  
      <IncidentDetail>"TRAFFIC BACKING UP DUE TO A COLLISION" </IncidentDetail>  
    </details>  
  </LogDetails>  
</Log>
```

http://media.chp.ca.gov/sa_XML/sa.XML

Other Relatively Static Data

- Rest Areas
- Features of Interest
- Truck Scales
- Summit Locations

Data Preparation



Weather forecast rasters are generated from NDFD data and used as overlays on the map.

JSON files are generated from NDFD data and used to position markers on the map.

```
[[
```

```
{ "name": "851130", "lat": 37.500855, "lon": -124.032572, "value": "54", "value2": "0" },
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temp.json

(temperature data)

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{ "name": "852730", "lat": 38.196344, "lon": -124.22478, "value": "52", "value2": "0" },  
{ "name": "854330", "lat": 38.889521, "lon": -124.419509, "value": "52", "value2": "0" },  
{ "name": "855930", "lat": 39.580275, "lon": -124.616809, "value": "54", "value2": "0" },  
{ "name": "857530", "lat": 40.268494, "lon": -124.81673, "value": "54", "value2": "0" },  
{ "name": "859130", "lat": 40.954071, "lon": -125.019324, "value": "52", "value2": "0" },  
{ "name": "860730", "lat": 41.636897, "lon": -125.224644, "value": "52", "value2": "0" },  
{ "name": "862330", "lat": 42.316865, "lon": -125.432745, "value": "47", "value2": "0" },  
{ "name": "863930", "lat": 42.993871, "lon": -125.643681, "value": "49", "value2": "0" },  
{ "name": "1440130", "lat": 35.549137, "lon": -122.607355, "value": "56", "value2": "0" },  
{ "name": "1441730", "lat": 36.25147, "lon": -122.786996, "value": "54", "value2": "0" },  
{ "name": "1443330", "lat": 36.951812, "lon": -122.968956, "value": "54", "value2": "0" },  
{ "name": "1444930", "lat": 37.650049, "lon": -123.15328, "value": "52", "value2": "0" },  
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{ "name": "1454530", "lat": 41.789018, "lon": -124.311516, "value": "52", "value2": "0" },  
{ "name": "1456130", "lat": 42.469414, "lon": -124.513737, "value": "50", "value2": "0" },  
{ "name": "1457730", "lat": 43.14683, "lon": -124.718722, "value": "50", "value2": "0" },  
{ "name": "1459330", "lat": 43.821162, "lon": -124.926528, "value": "49", "value2": "0" },
```

```
...
```

CMS

MAY IS BIKE MONTH
SHARE THE ROAD

NARROW LANES
NO SHOULDER
17 MILES AHEAD

WATCH FOR
ROCKS
ON ROADWAY

ONE NARROW LANE
8 MILES AHEAD
REDUCE SPEED

ROADWORK
2 MILES AHEAD
CHP ON DUTY

HWY 1 12 MIN
GG BRIDGE 16 MIN
BERKELEY 20 MIN

SONORA PASS
OPEN

GUSTY
WIND
WARNING

SLOW DOWN
35 MPH CURVE
AHEAD

I-5 GUSTY
WINDS
OVER SUMMIT

ROAD WORK
1 MILE
AHEAD

HIGH
WINDS
ON BRIDGE

UNEVEN PAVEMENT
USE
CAUTION

TIOGA
PASS
CLOSED

ROADWORK S-680
SUNOL BLVD
EXPECT DELAYS

DRIVE SAFE
WORK ZONE
SAFETY MONTH

WINTER
DRIVING CONDITIONS
AHEAD

SNOW ZONE
CARRY CHAINS

AUBURN VIA
I-5 & SR 18 18 MIN
405 & SR 167 20 MIN
WSDOT 005vm15598 May 4, 2012 11:41 AM

26
18
May 4, 2012
WSDOT 005

OPEN
1/2 MILE
EXIT ONLY
May 4, 2012 11:41 AM PDT
WSDOT 090cm00886

REDUCED
SPEED
ZONE
WSDOT 005vm16446 May 4, 2012 11:41 AM

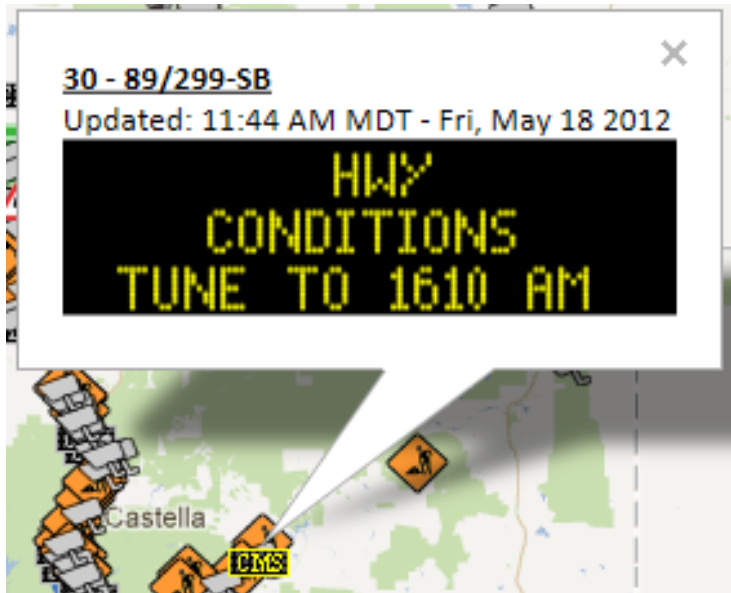
Images are generated for California and Oregon and downloaded for Washington.

HTML is generated to include location, timestamp, and image:

CMS

```
<u>  
<b>NB @ S 216th St</b>  
</u><br/>  
Updated: 201205181754 UTC  
<br/>  

```



JSON files are generated from CMS data and used to position markers on the map including position relative to other field elements:

```
[[
  {"name":"ca_D068", "lat":35.365471, "lon":-119.350354, "value":"cms_blank", "zindex":0},
  ...
  {"name":"ca_D069", "lat":35.415025, "lon":-119.419823, "value":"cms", "zindex":60},
  ...
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  {"name":"ca_D111120662", "lat":33.028662, "lon":-117.078319, "value":"cms_blank", "zindex":0},
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  ...
]]
```

CCTV



Images are downloaded for California, Oregon and Washington. We linked to WSDOT images at one point when connectivity challenges arose.

User Interface

0 mph

1 mph

5 mph

10 mph

15 mph

20 mph

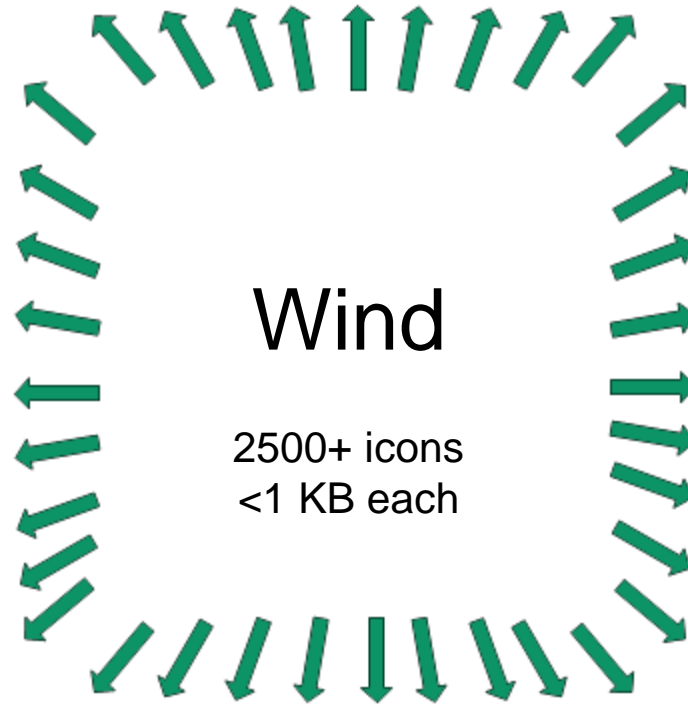
25 mph



30 mph



35 mph



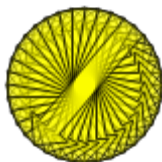
40 mph



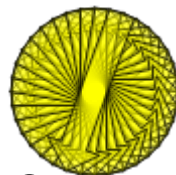
45 mph



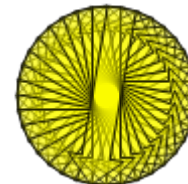
50 mph



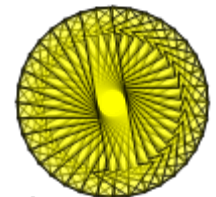
55 mph



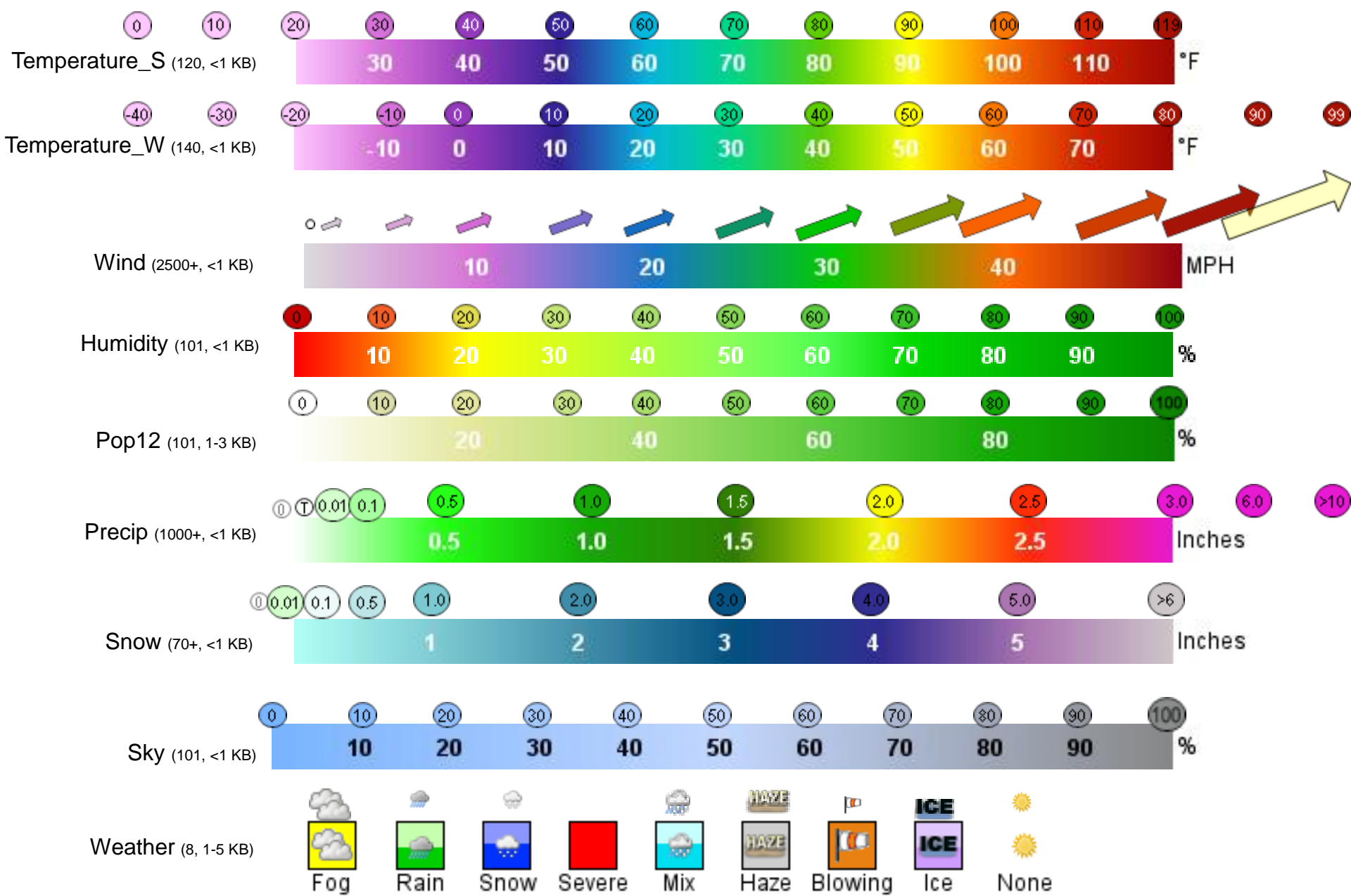
60 mph



65 mph

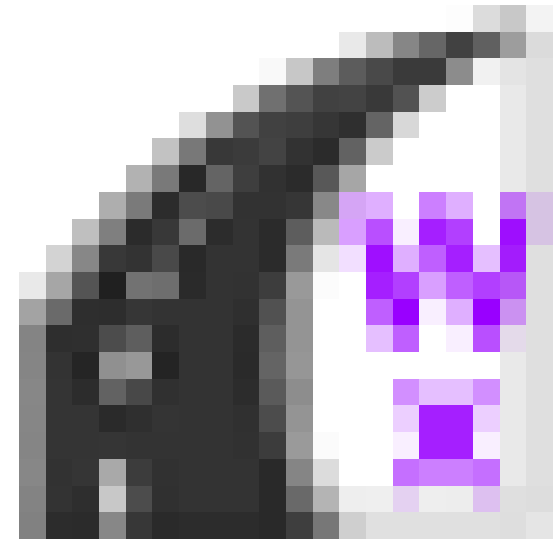
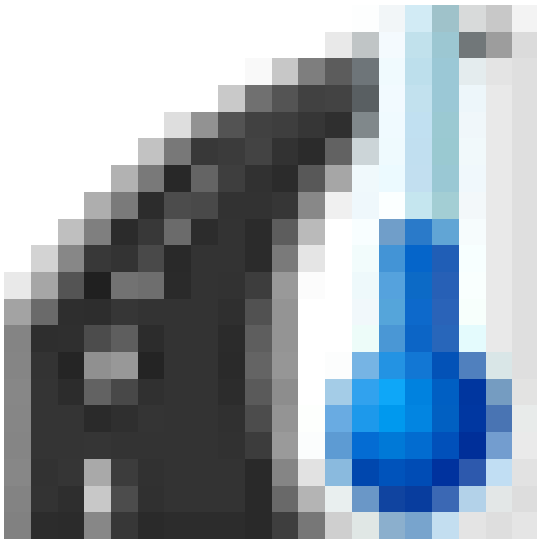


70 mph

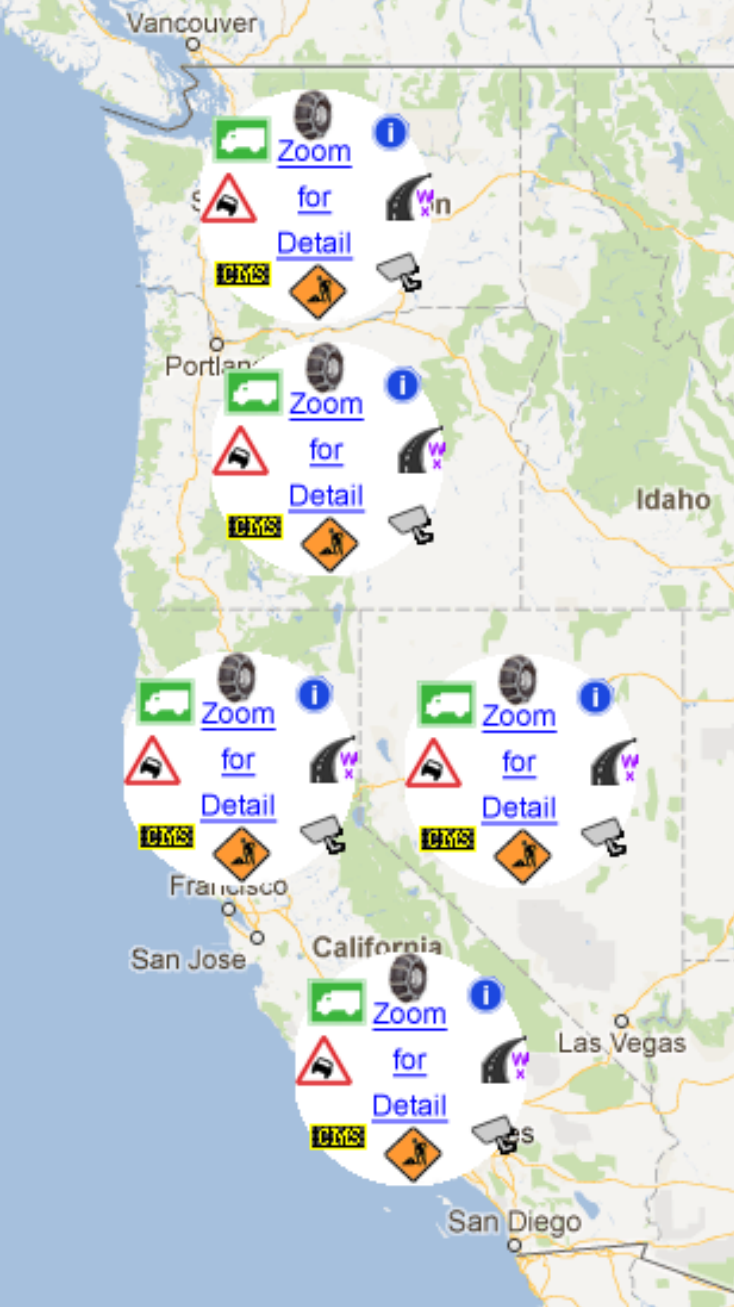


The “Art” of Icons,

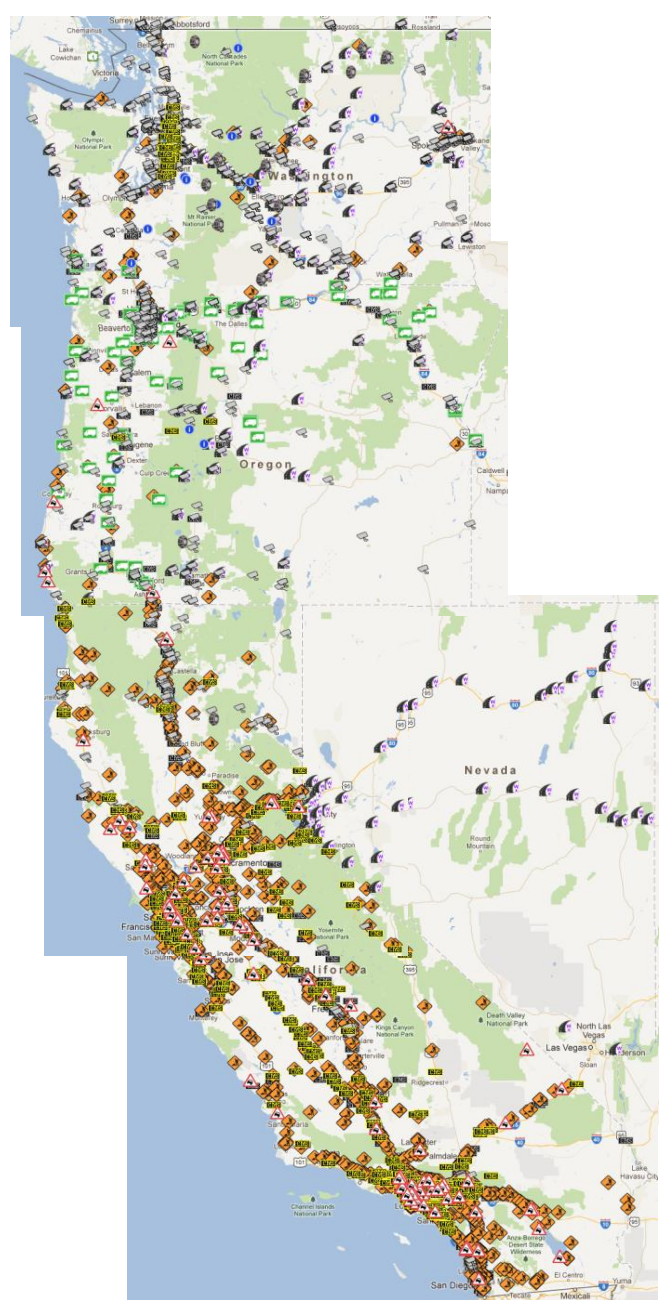
or lack-there-of ...

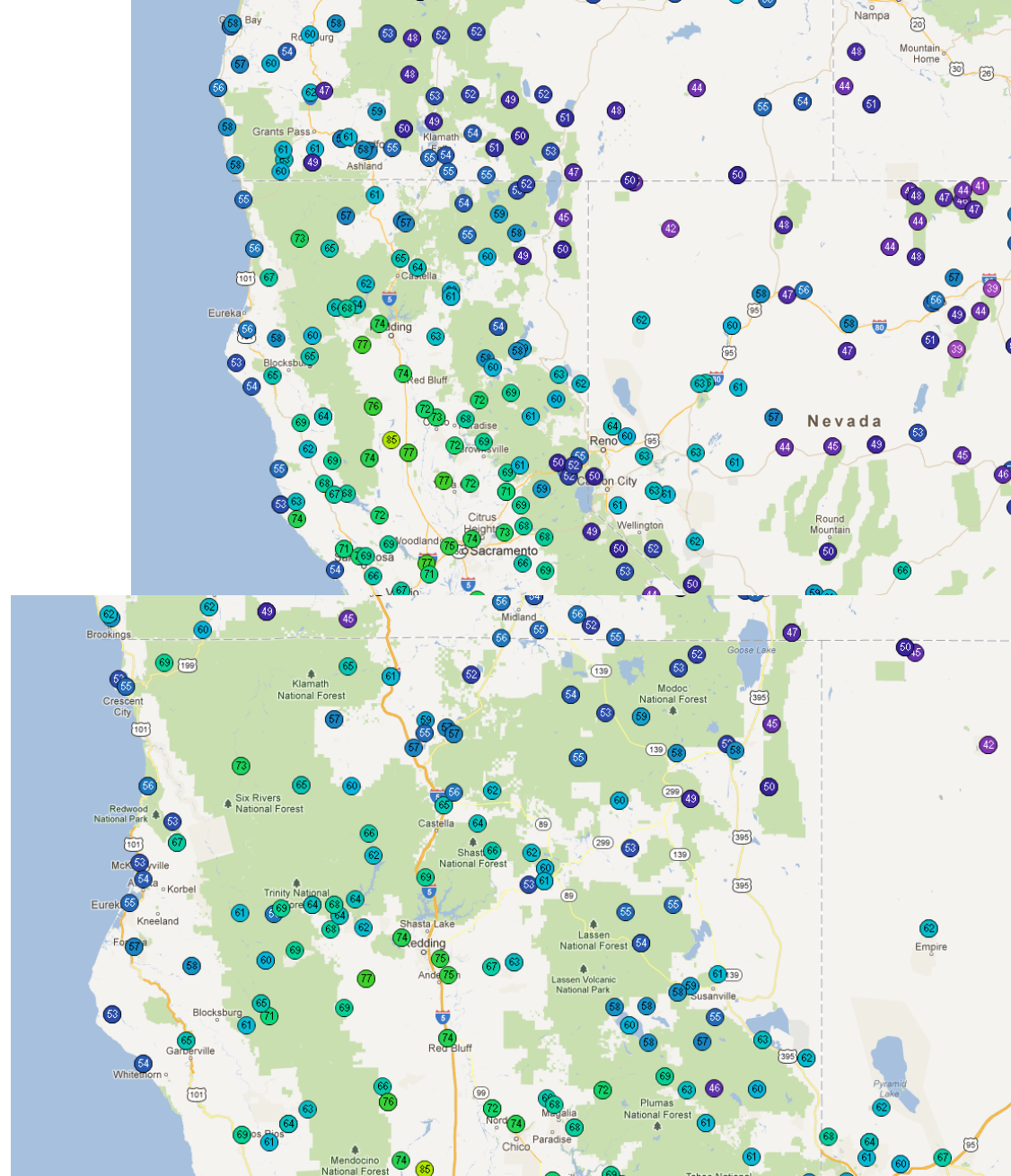
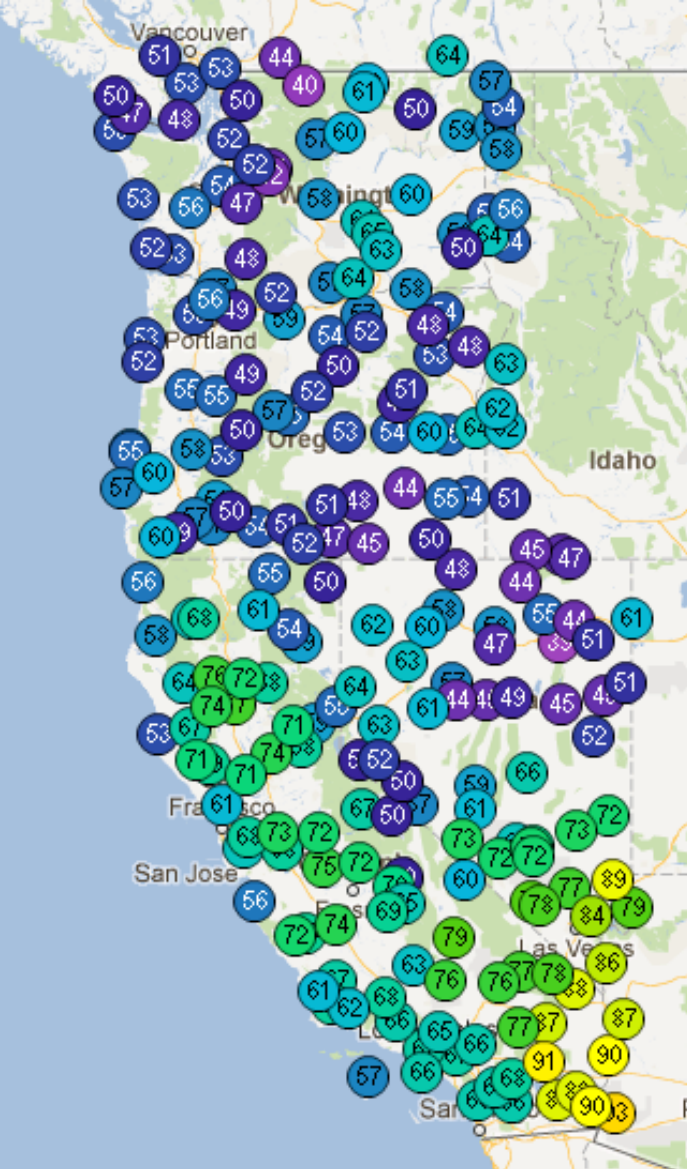


Marker Management



Road/Travel Conditions

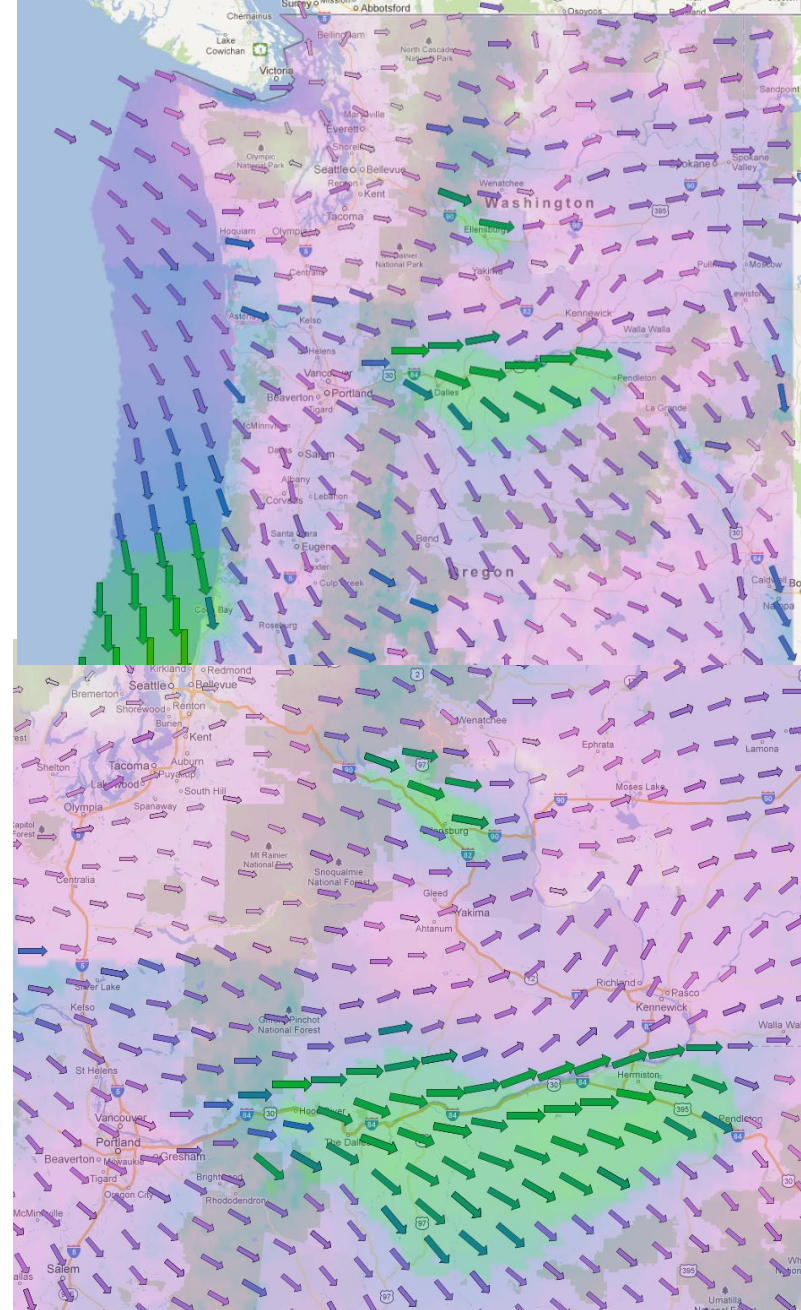




Current Weather

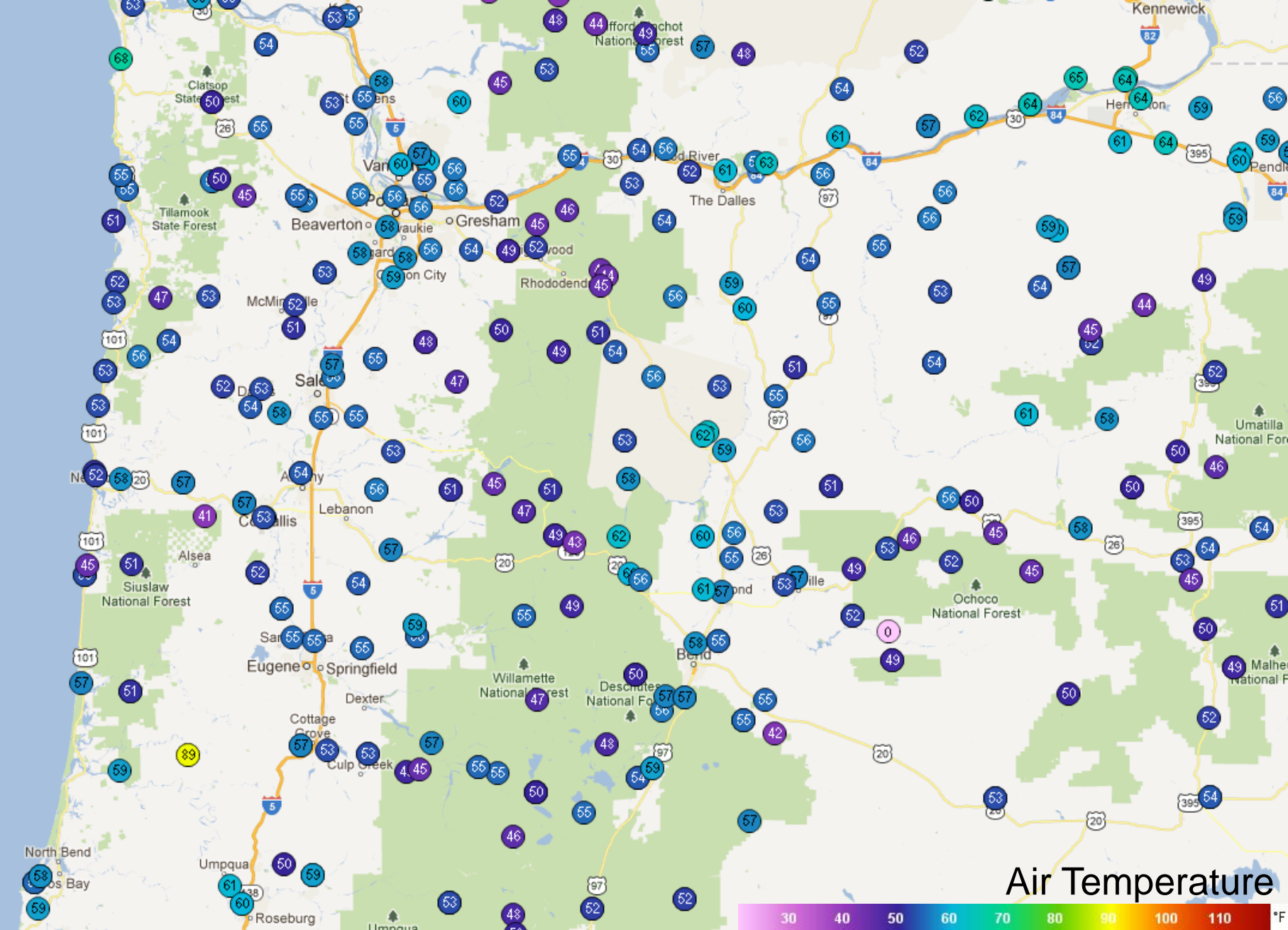


Forecast Weather

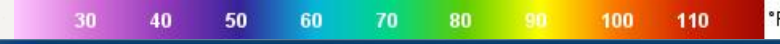


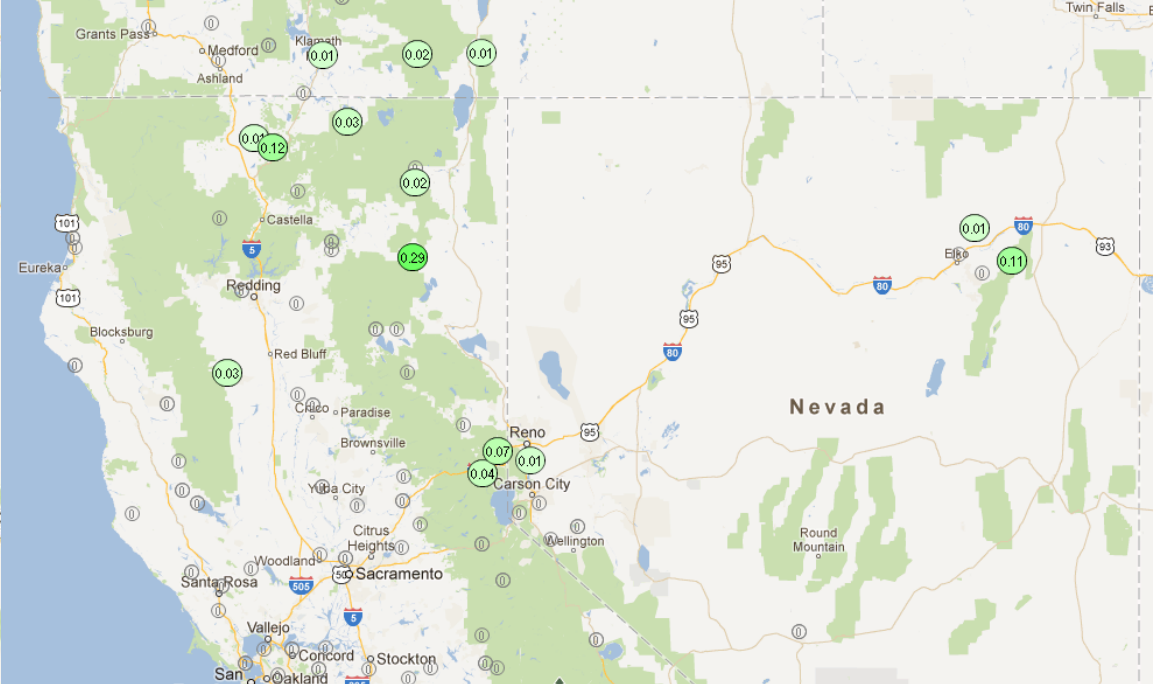
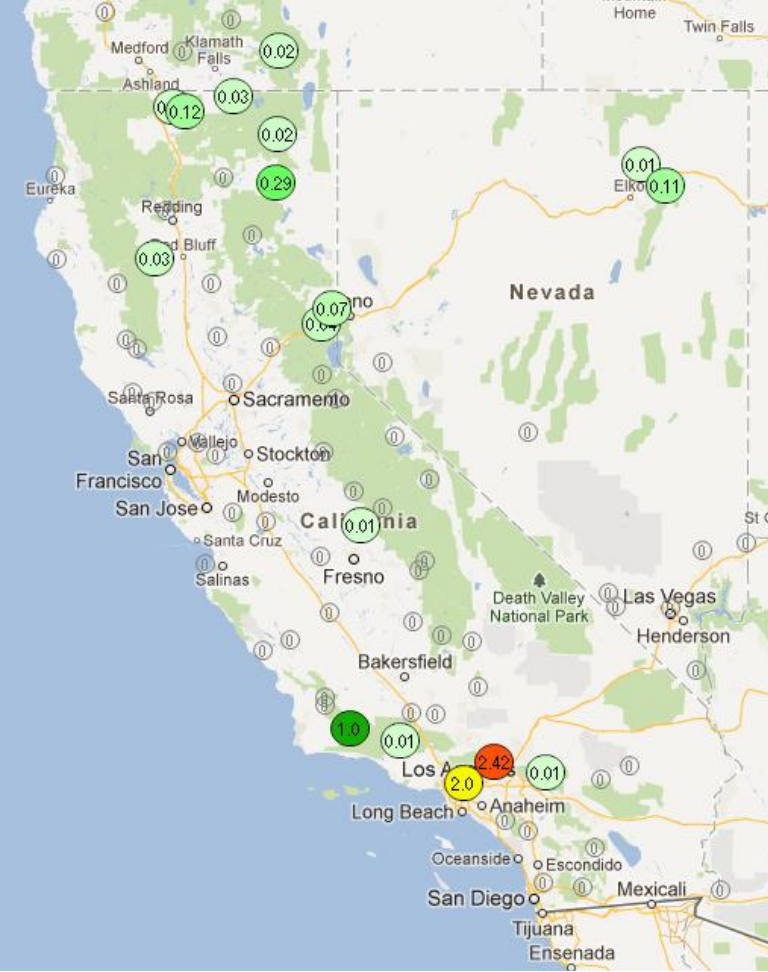
Quality Control

Is there any erroneous data here?



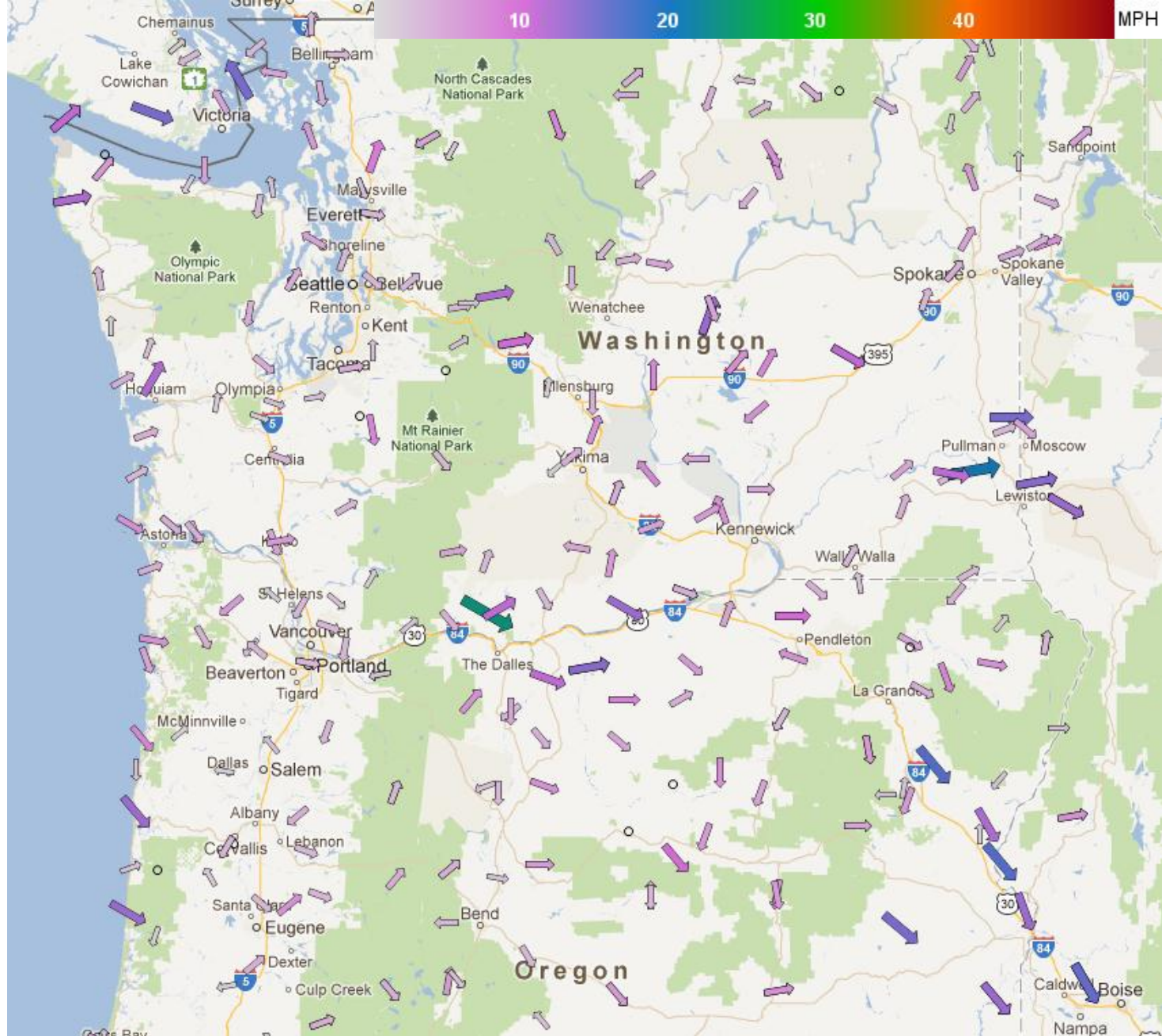
Air Temperature



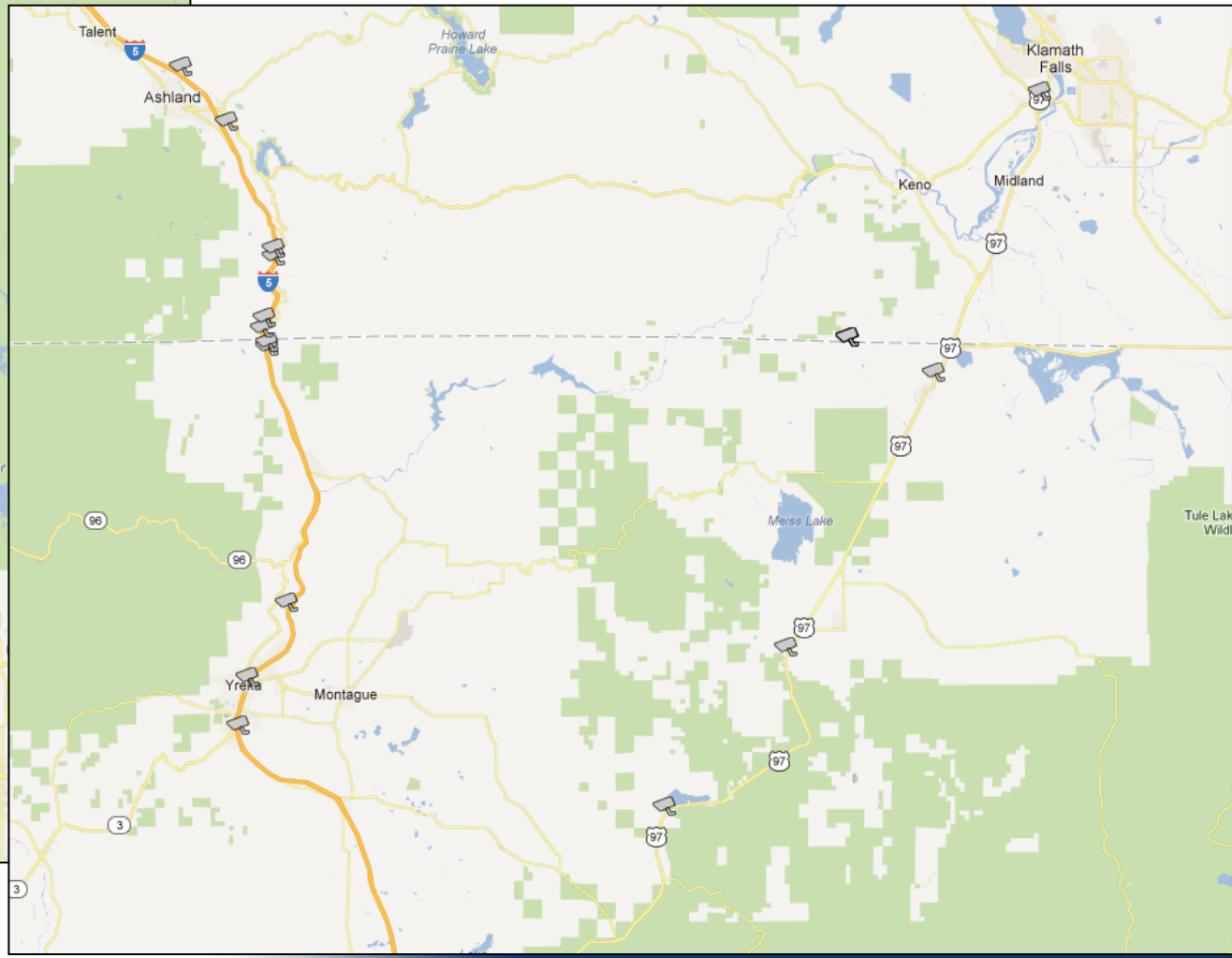
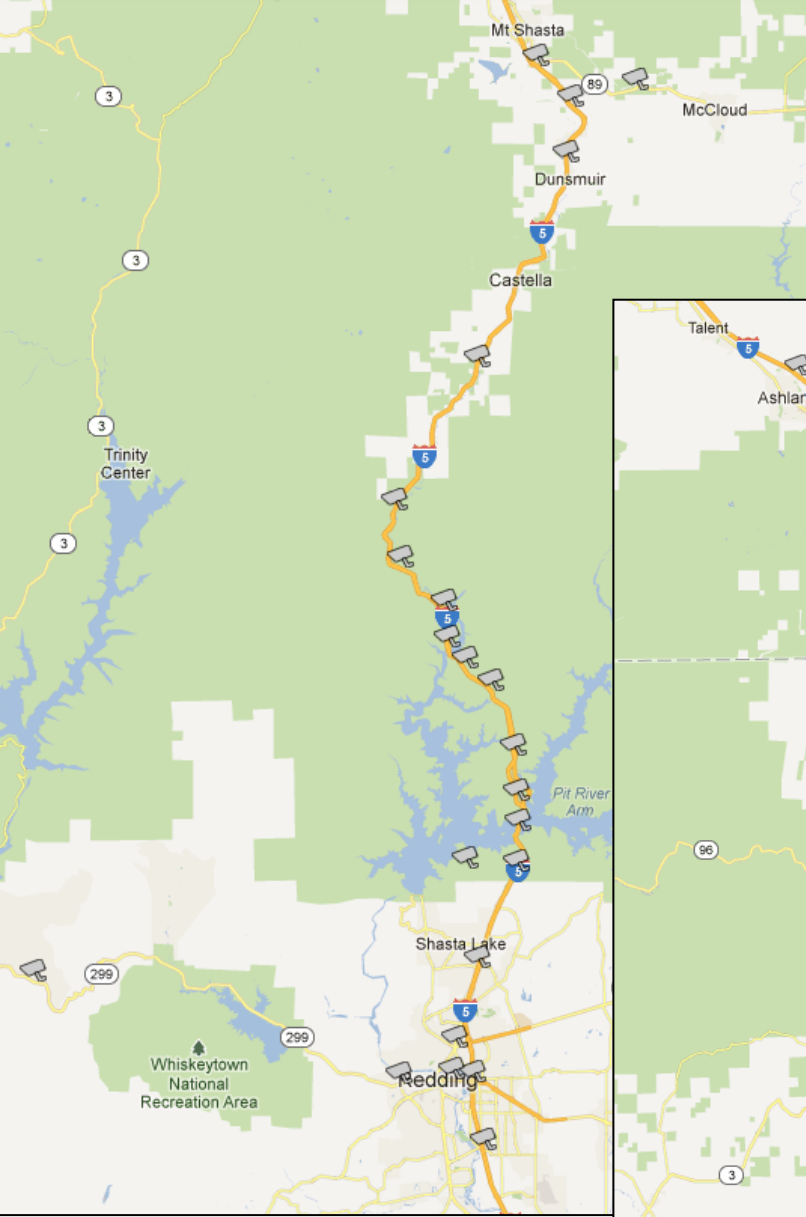


Or with this 24-Hour Precipitation Data?

Or
with
this
Wind
Data?



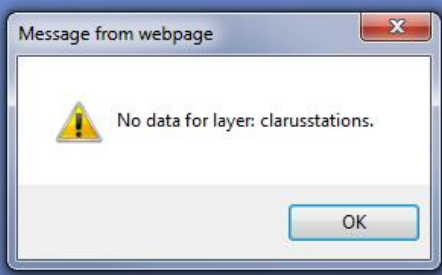
Or with these
CCTV sites?



Or with these
CCTV sites?



Can you tell now?



Quality Control

Can we do better?

- Report a Problem
- Automated Checks
- Use More Data from Providers

Know Your User

or, alternatively

Ignorance is Bliss

Google Analytics

- Accomplished via JavaScript.
- Note that OSS is a one-page website.

```
<head>
...
<script async type="text/javascript"
    src="http://www.google-analytics.com/ga.js">
</script>
...
<script
    try {
        if (window.location.hostname === "clarusoss.weathershare.org") {
            window._gaq = [['_setAccount', 'UA-XXXXXXXX-10'],
                ['_trackPageView']];
        } else if (window.location.hostname === "oss.weathershare.org") {
            window._gaq = [['_setAccount', 'UA-XXXXXXXX-11'],
                ['_trackPageView']];
        } else {
            window._gaq = [['_setAccount', 'UA-XXXXXXXX-9'],
                ['_trackPageView']];
        }
    } catch (err) {}
</script>
...
</head>
```


Visits

Nov 1, 2011 – April 30, 2012

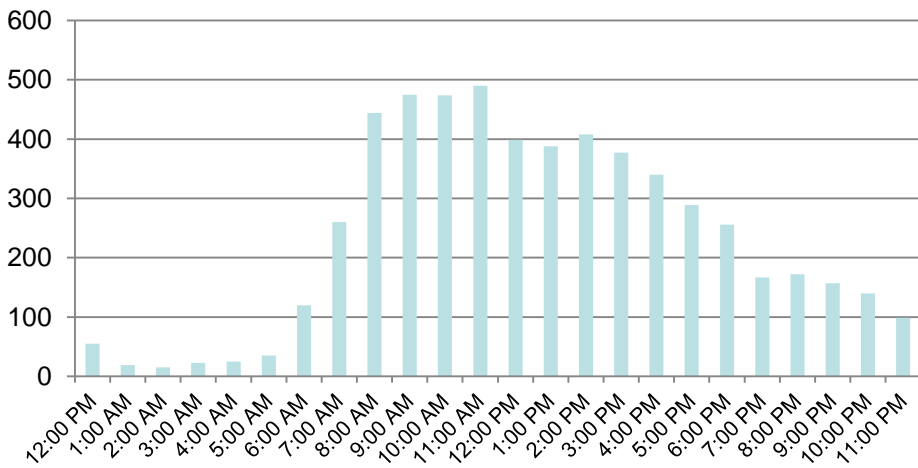


Median Visits per Day = 22.5

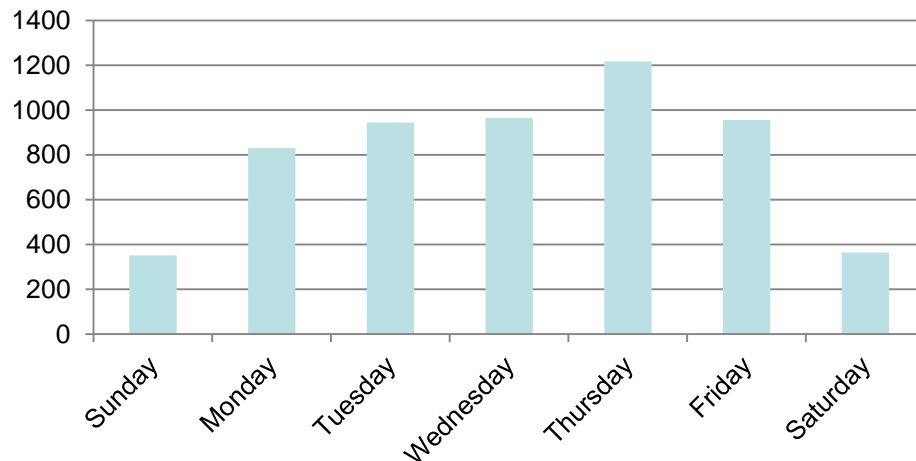
Total Visits = 5627

<u>Day</u>	<u>Visits</u>
1/19/2012	435
1/20/2012	238
2/29/2012	141
1/23/2012	125
3/13/2012	108

Visits by Time of Day

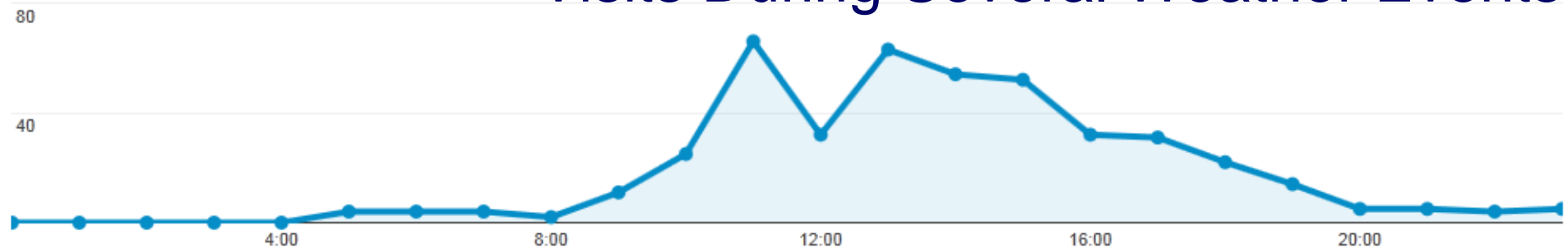


Visits by Day of Week

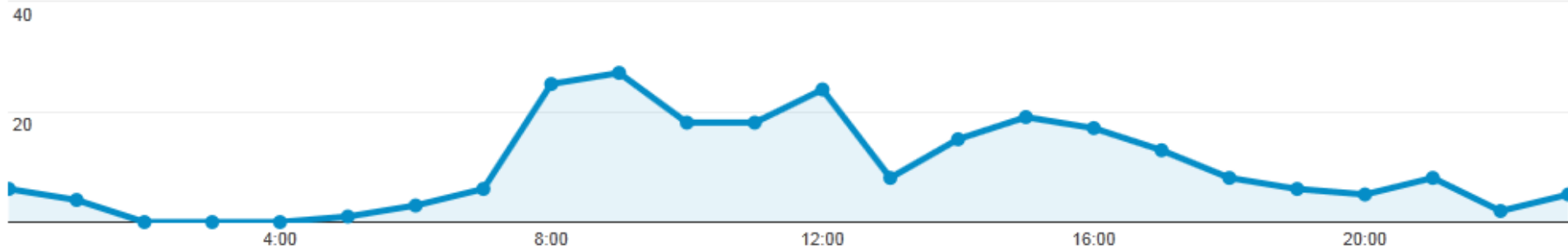


Visits During Several Weather Events

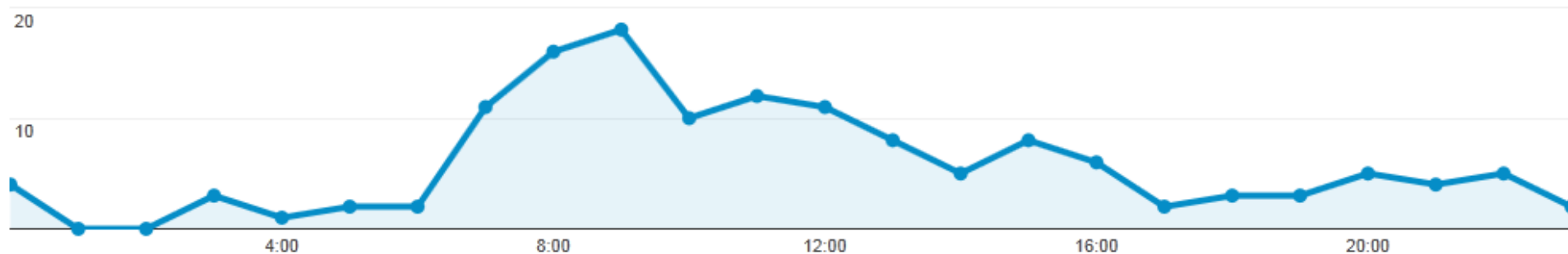
● Visits Thursday, 1/19/2012



● Visits Friday, 1/20/2012



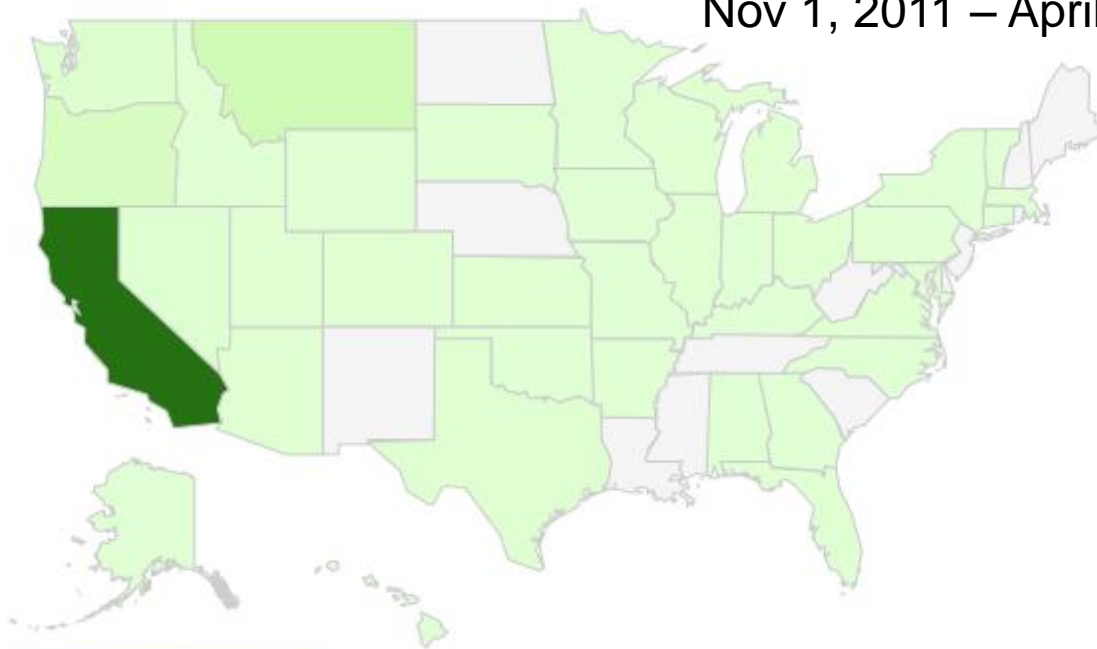
● Visits Wednesday 2/29/2012



Visitor Locations

Nov 1, 2011 – April 30, 2012

<u>Country/Territory</u>	<u>Visits</u>
United States	5,571
Canada	20
United Kingdom	10
(not set)	8
India	7
Japan	4
Australia	2
Angola	1
Switzerland	1
Mexico	1
Netherlands	1
Ukraine	1



1 4,591

Region

California	4,591
Montana	413
Oregon	235
Washington	88
Nevada	46
Texas	33
Ohio	13
Colorado	12
Illinois	11
Utah	11
Wisconsin	11
Michigan	10
District of Columbia	9
Florida	9

Visits

Region

Arizona	8
Kansas	8
Virginia	8
New York	6
Idaho	5
Oklahoma	5
Wyoming	5
Iowa	4
Arkansas	3
Indiana	3
Minnesota	3
Missouri	3
	9
	9

Visits

Region

Connecticut	2
Georgia	2
Kentucky	2
Massachusetts	2
Pennsylvania	2
(not set)	1
Alaska	1
Alabama	1
Hawaii	1
Maryland	1
North Carolina	1
South Dakota	1
Vermont	1

Visits

	2
	2
	2
	2
	2
	1
	1
	1
	1
	1
	1
	1



1 5,571

California Visitor Locations

<u>City</u>	<u>Visits</u>
Sacramento	1589
Chico	811
Redding	662
San Francisco	238
Santa Clara	141
San Jose	114
Los Angeles	103
Santa Rosa	75



<u>City</u>	<u>Visits</u>
Carmichael	52
Mount Shasta	49
San Diego	38
Oakland	37
Corning	34
Yreka	30
Truckee	27
Burbank	26
Weaverville	26

<u>City</u>	<u>Visits</u>
Davis	25
Yuba City	25
Susanville	24
Etna	20
Arcata	19
Santa Cruz	17
Rancho Cordova	15
Poway	14
Red Bluff	13
Sunnyvale	13

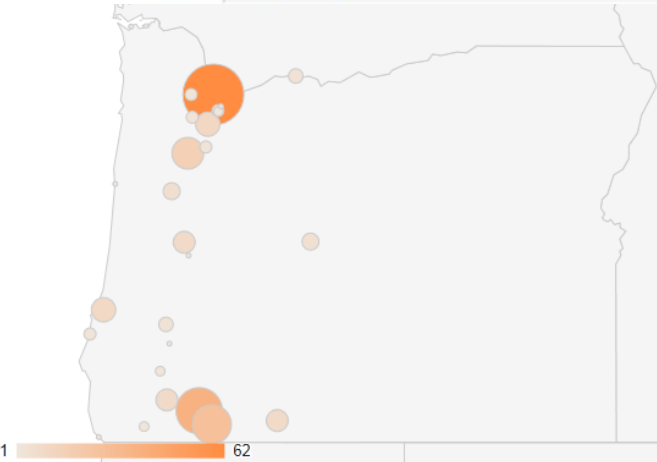
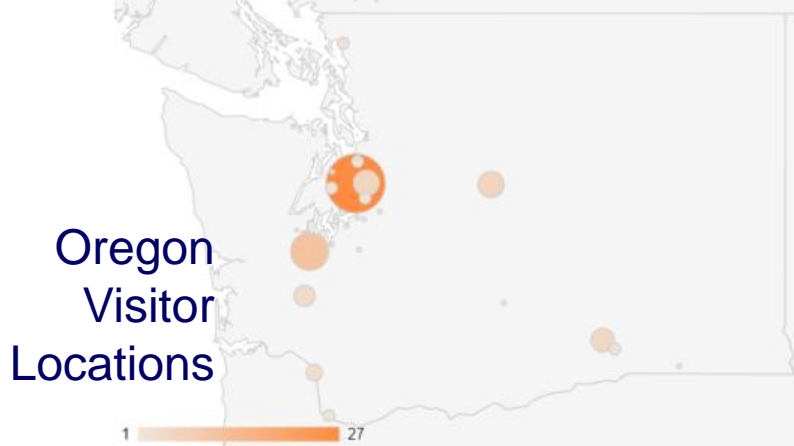
Nov 1, 2011
–
April 30, 2012



<u>City</u>	<u>Visits</u>	<u>City</u>	<u>Visits</u>	<u>City</u>	<u>Visits</u>
Eureka	10	Anaheim	3	Alameda	1
Modesto	10	Antelope	3	Alhambra	1
Roseville	10	Citrus Heights	3	Alturas	1
Salinas	10	Clovis	3	American Canyon	1
Woodland	9	El Dorado Hills	3	Berkeley	1
Anderson	8	Fremont	3	Bishop	1
Lawndale	7	Grass Valley	3	Borrego Springs	1
San Luis Obispo	7	Lake Forest	3	Concord	1
Sanger	7	Mountain View	3	Costa Mesa	1
Valley Springs	7	Oroville	3	Diamond Springs	1
West Sacramento	7	Palo Alto	3	Downey	1
Cupertino	6	Pleasant Hill	3	El Centro	1
Folsom	6	Shingle Springs	3	Elk Grove	1
Bakersfield	5	Tulelake	3	Encinitas	1
Burney	5	Vallejo	3	Encino	1
Crescent City	5	Walnut Creek	3	Fair Oaks	1
El Cajon	5	Williams	3	Fullerton	1
Livermore	5	Atascadero	2	Garden Grove	1
Redlands	5	Cerritos	2	Glendale	1
Stanford	5	Clayton	2	Grover Beach	1
Stockton	5	Clearlake	2	Hayward	1
Chula Vista	4	Colfax	2	Irvine	1
Foresthill	4	Colusa	2	La Mesa	1
Kings Beach	4	Dublin	2	La Puente	1
Lincoln	4	Fresno	2	Lakeport	1
Long Beach	4	Hesperia	2	Lancaster	1
Rocklin	4	Mariposa	2	Lathrop	1
San Ramon	4	Menlo Park	2	Livingston	1
Santa Maria	4	Milpitas	2	Lodi	1
Torrance	4	Monterey	2	Los Altos	1
Weed	4	North Highlands	2	Moreno Valley	1
		Oceanside	2	Morgan Hill	1
		Chula Vista	2	Napa	1
		Pasadena	2	North Hills	1
		Pismo Beach	2	Oakley	1
		Pleasanton	2	Ontario	1
		Porterville	2	Orange	1
		Rohnert Park	2	Palmdale	1
		San Bernardino	2	Paso Robles	1
		San Carlos	2	Placerville	1
		Santa Ana	2	Playa Del Rey	1
		Santa Clarita	2	Pomona	1
		Santa Monica	2	Quincy	1
		South San Francisco	2	Rancho Santa Margarita	1
		Victorville	2	Rescue	1
		Willows	2	Reseda	1
				Ripon	1
				Riverside	1
				San Clemente	1
				San Dimas	1
				San Leandro	1
				San Mateo	1
				San Rafael	1
				Sheep Ranch	1
				Sherman Oaks	1
				Vacaville	1
				Venice	1
				Visalia	1
				Willits	1
				Woodland Hills	1
				Yosemite National Park	1

City **Visits**

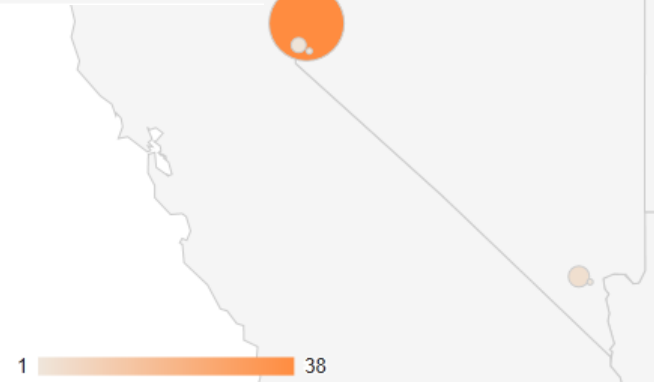
Portland	62
Medford	36
Ashland	27
Salem	16
Aurora	11
Coos Bay	10
Eugene	9
Grants Pass	9
Klamath Falls	9
Corvallis	6
Bend	5
Hood River	4
Roseburg	4
Bandon	3
Hillsboro	3
Newberg	3
Silverton	3
West Linn	3
Cave Junction	2
Glendale	2
Oregon City	2
Astoria	1
Brookings	1
Clackamas	1
Creswell	1
Myrtle Creek	1
Newport	1



**Washington
Visitor
Locations**

<u>City</u>	<u>Visits</u>
Seattle	27
Olympia	11
Bellevue	6
Leavenworth	6
Richland	5
Chehalis	4
Kalama	3
Bellingham	2
Bremerton	2
Kennewick	2
Mountlake Terrace	2
Renton	2
Vancouver	2
Anacortes	1
Auburn	1
Dupont	1
Everett	1
Federal Way	1
Gig Harbor	1
Graham	1
Keyport	1
Lynnwood	1
Maple Valley	1
Sequim	1
Tacoma	1
Walla Walla	1
Yakima	1

Nov 1, 2011
—
April 30, 2012

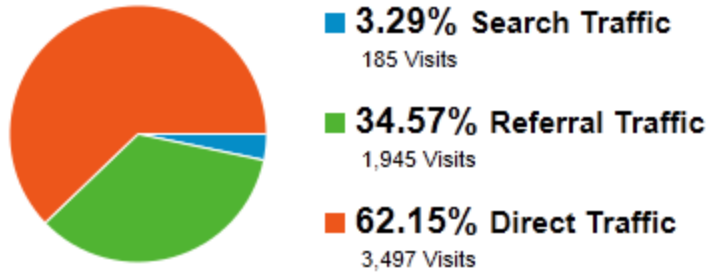


**Nevada Visitor
Locations**

<u>City</u>	<u>Visits</u>
Reno	38
Las Vegas	4
Incline Village	2
Carson City	1
Henderson	1

How are people finding OSS?

5,627 people visited this site



Source	Visits
1. dot.ca.gov	1,223
2. westernstates.org	221
3. visitmtshasta.com	91
4. co.shasta.ca.us	75
5. cawscportal.wr.usgs.gov	48
6. intranet	45
7. us.mg203.mail.yahoo.com	43
8. facebook.com	32
9. 36ohk6dgmcd1n-c.c.yom.mail.yahoo.net	21
10. onramp.dot.ca.gov	12
11. 10.160.32.18	11
12. californiaagricultural.com	7

Keyword	Visits	% Visits
1. oss.weathershare.org	45	24.32%
2. http://oss.weathershare.org/	29	15.68%
3. (not provided)	12	6.49%
4. oss.weathershare	10	5.41%
5. one stop shop weather	8	4.32%
6. western states one-stop shop	7	3.78%
7. weathershare	5	2.70%
8. oss weather share	4	2.16%
9. weathershare oss	4	2.16%
10. http://oss.weathershare.org	3	1.62%



[Caltrans](#) > District 2 - Northeastern California



District 2 Office
1657 Riverside Drive
Redding, CA 96001
(530) 225-3426

QUICK LINKS

- District 2 Press Releases
- Caltrans Headquarters
- California Transportation Commission
- Department of Motor Vehicles
- California Highway Patrol
- CalFire
- Lane Closures
- Business, Transportation and Housing

INFORMATION FOR



Travelers

- [Caltrans Quick Map](#)
- [Cycling in District 2](#)
- [Winter Driving Info](#)
- [Points of Interest & Scenic Highway Information](#)

Local Agencies

Business Partners

Projects

- [Maps & Traffic Cameras](#)
- [Highway Conditions & Planned Roadwork](#)
- [Rest Area Info](#)

Navigation bar with icons for: What's NEW!, Construction Projects in the NORTHSTATE, ADOPT-A-HIGHWAY, traffic cams road weather, Chain Control maps & info, Caltrans QuickMap, NEWS Public Information, ONE STOP SHOP, and Caltrans Worker Safety.

TRAFFIC ALERTS PROVIDED BY CALTRANS DISTRICT 2

For information on current road conditions call the Public Information Office at 530-229-0511, Monday through Friday between 8am and 4:30pm

HIGHLIGHTS & CURRENT INFORMATION - WEDNESDAY, MAY 16, 2012

- [Historic Bridge Available for Relocation, Proposals Welcome](#)
- [High Tension Cable Barrier System Informational Video](#)
- [Move Over Law PSAs](#)
- [Fight Distracted Driving](#)
- [The American Recovery and Reinvestment Act \(ARRA\)](#)
- [Transportation Concept & Other Reports](#)

Caltrans District 2 Reminds Motorists to Slow Down or



Caltrans D2 News Release



State of California

NEWS RELEASE



Today's Date: November 9, 2011
District/Division: Redding
Contact: Denise Yergenson or Mel Hutsell
Phone: (530) 225-3260 or 242-3200

FOR IMMEDIATE RELEASE

Winter Driving Tips

REDDING – Two of California's traffic safety partners, the California Highway Patrol (CHP) and Caltrans, are teaming up to drive home an important message to all motorists traveling in the north state this winter: be prepared for upcoming storms. Information on winter driving, chain controls and access to traffic cameras is available on the internet at www.caltrans2.info. Caltrans suggests you visit the website prior to any winter trip for important information on driving conditions and tips on how to be prepared in the case of inclement weather. The CHP has a mobile app you can use on your cell phone to get information about traffic conditions <http://m.chp.ca.gov>.

"Caltrans and the CHP are encouraging motorists to check their automobiles and make sure they're prepared prior to the first big storm of the season," said District 2 Director, John Bulinski. "Safety is our number one priority, and that includes the traveling public and our highway workers. Please slow down when necessary so we can all get home safely."

CHP Redding Area Commander, Captain Jerry Flavin, adds, "Often drivers are traveling long distances during the winter months. As a result, many drivers are overly tired and not properly focused on the hazards of winter driving. It's important to get the proper rest and don't drive if you're tired."

It is best to stay off the roads during winter storms, but if you must go out use caution, common sense and be prepared.

Things to Remember

- Winterize your vehicle (check brakes, windshield wipers, antifreeze, tires).
- Always carry chains.
- Reduce speed and use your seatbelt.
- Do not use cruise control in wet, icy or snowy weather.
- Do not pass a vehicle plowing snow unless instructed.
- Be aware of rapidly changing conditions.
- Be prepared for road closures and long delays (bring flashlight, blanket, food, ice scraper, gloves, water, cell phone charger).
- If possible, stay off the road during winter storms.
- Studded snow tires are permitted in California from November 1 until April 30. Studded snow tires are not considered tire traction devices and may not be used in lieu of chains.

Truck Drivers

- Extra-Legal permitted loads are restricted during inclement weather.
- Follow instructions in chain control areas.
- Listen for Highway Advisory Radio (HAR) messages on 1610 AM.
- Remain in the slow lane, avoid passing other big rigs.

See the attached brochure for more information about chains, vehicle winterization, the Caltrans Highway Information Network, and additional ways to get information about road conditions. Click the following link to go to the brochure online, <http://www.dot.ca.gov/hq/roadinfo/wntdriv.htm>. To access the CHP webpage on winter driving, go to http://www.chp.ca.gov/html/winter_driving.html.

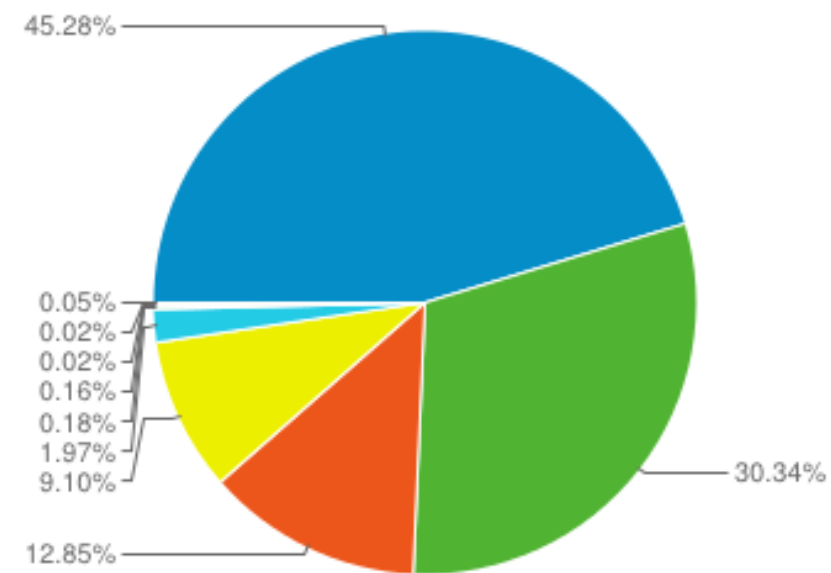
For more information visit www.caltrans2.info or if traveling through Oregon, www.tripcheck.com and for the One Stop Shop for Traveler Information for California, Oregon, Washington and Nevada, visit <http://oss.weathershare.org>.

This press release is available electronically at www.caltrans2.info.

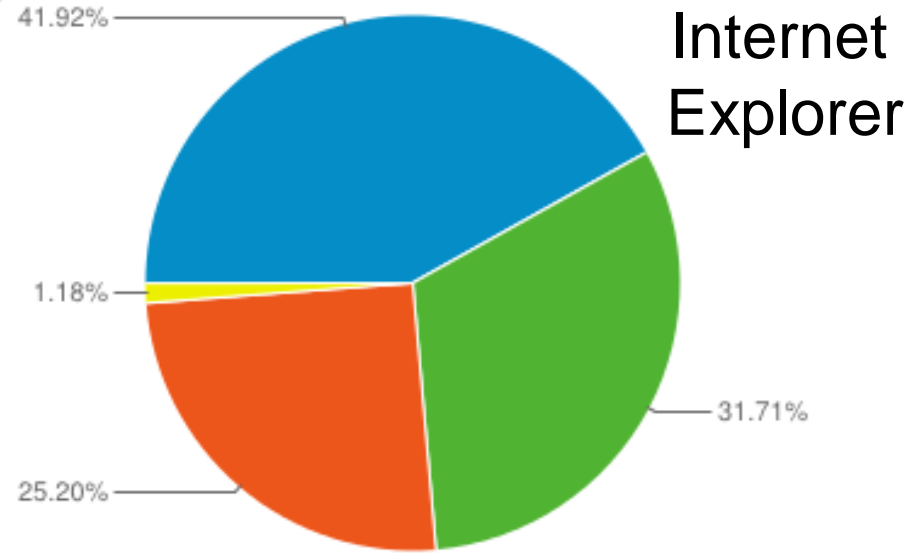
###

Browser

1.	Internet Explorer	2,548	45.28%
2.	Firefox	1,707	30.34%
3.	Safari	723	12.85%
4.	Chrome	512	9.10%
5.	Android Browser	111	1.97%
6.	Mozilla Compatible Agent	10	0.18%
7.	IE with Chrome Frame	9	0.16%
8.	Opera	3	0.05%
9.	BlackBerry9300	1	0.02%
10.	gt-s5233a	1	0.02%
11.	NetFront	1	0.02%
12.	Opera Mini	1	0.02%



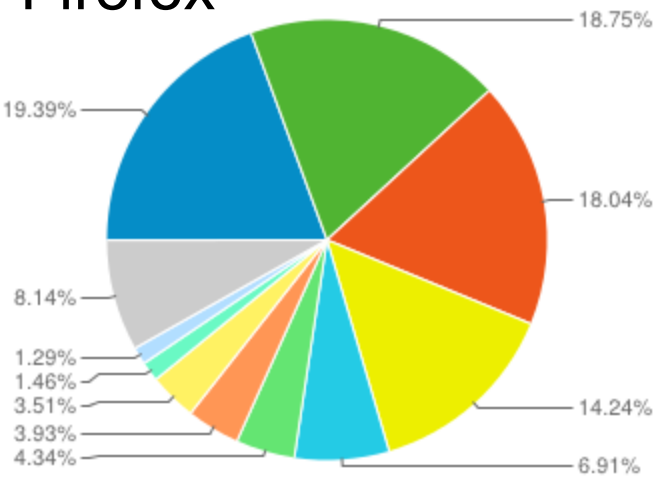
1.	8.0	1,068	41.92%
2.	7.0	808	31.71%
3.	9.0	642	25.20%
4.	6.0	30	1.18%



Browser Version

Nov 1, 2011 – April 30, 2012

Firefox



1.	11.0	331	19.39%	16.	3.6.28	10	0.59%	31.	13.0	1	0.06%
2.	10.0.2	320	18.75%	17.	3.6.26	6	0.35%	32.	3.0.12	1	0.06%
3.	9.0.1	308	18.04%	18.	4.0	5	0.29%	33.	3.5	1	0.06%
4.	8.0	243	14.24%	19.	6.0	5	0.29%	34.	3.5.2	1	0.06%
5.	10.0.1	118	6.91%	20.	5.0.1	4	0.23%	35.	3.5.9	1	0.06%
6.	7.0	74	4.34%	21.	12.0	3	0.18%	36.	3.6	1	0.06%
7.	10.0	67	3.93%	22.	3.6.13	3	0.18%	37.	3.6.12	1	0.06%
8.	8.0.1	60	3.51%	23.	3.6.8	3	0.18%	38.	3.6.17	1	0.06%
9.	7.0.1	25	1.46%	24.	4.0.1	3	0.18%	39.	3.6.20	1	0.06%
10.	5.0	22	1.29%	25.	3.5.3	2	0.12%	40.	3.6.9	1	0.06%
11.	3.6.15	17	1.00%	26.	3.5.6	2	0.12%				
12.	6.0.2	17	1.00%	27.	3.6.18	2	0.12%				
13.	3.6.25	16	0.94%	28.	3.6.23	2	0.12%				
14.	3.6.24	14	0.82%	29.	9.0	2	0.12%				
15.	3.6.27	12	0.70%	30.	12.0a2	1	0.06%				

Screen Resolution

164 variations!

	<u>Screen</u>	<u>Resolution</u>	<u>Visits</u>	<u>Percent</u>	<u>Cumulative</u>
1	1280x1024	848	15.07%	15.07%	
2	1024x768	766	13.61%	28.68%	
3	1680x1050	640	11.37%	40.06%	
4	1280x800	516	9.17%	49.23%	
5	768x1024	456	8.10%	57.33%	
6	1920x1200	406	7.22%	64.55%	
7	1440x900	381	6.77%	71.32%	
8	1366x768	288	5.12%	76.44%	
9	1920x1080	284	5.05%	81.48%	
10	1600x900	125	2.22%	83.70%	
11	320x480	125	2.22%	85.93%	
12	1280x960	64	1.14%	87.06%	
13	1600x1200	55	0.98%	88.04%	
14	1152x864	51	0.91%	88.95%	
15	1024x819	37	0.66%	89.60%	
16	1536x864	36	0.64%	90.24%	

	<u>Screen</u>	<u>Resolution</u>	<u>Visits</u>	<u>Percent</u>	<u>Cumulative</u>
17	1280x768	30	0.53%	90.78%	
18	1280x720	29	0.52%	91.29%	
19	1536x960	23	0.41%	91.70%	
20	800x600	20	0.36%	92.06%	
21	1344x840	18	0.32%	92.38%	
22	1600x1024	18	0.32%	92.70%	
23	1024x640	17	0.30%	93.00%	
24	800x1183	16	0.28%	93.28%	
25	1600x1000	15	0.27%	93.55%	
26	2560x1440	15	0.27%	93.82%	
27	1024x600	14	0.25%	94.06%	
28	1152x720	14	0.25%	94.31%	
29	3360x1050	14	0.25%	94.56%	
30	1093x614	12	0.21%	94.78%	
31	1400x1050	12	0.21%	94.99%	
32	800x1220	11	0.20%	95.18%	
33	800x1241	9	0.16%	95.34%	
34	1067x600	8	0.14%	95.49%	
35	0x0	7	0.12%	95.61%	
36	1152x648	7	0.12%	95.73%	
37	1360x768	7	0.12%	95.86%	
38	1120x700	6	0.11%	95.97%	
39	800x1200	6	0.11%	96.07%	
40	1140x641	5	0.09%	96.16%	
41	1311x737	5	0.09%	96.25%	
42	1350x844	5	0.09%	96.34%	
43	1772x1108	5	0.09%	96.43%	
44	1786x1005	5	0.09%	96.52%	
45	2560x1600	5	0.09%	96.61%	
46	960x600	5	0.09%	96.69%	

	<u>Screen</u>	<u>Resolution</u>	<u>Visits</u>	<u>Percent</u>	<u>Cumulative</u>
47	1080x810	4	0.07%	96.77%	
48	2560x1024	4	0.07%	96.84%	
49	800x1130	4	0.07%	96.91%	
50	800x1223	4	0.07%	96.98%	
51	800x1242	4	0.07%	97.05%	
52	800x390	4	0.07%	97.12%	
53	819x614	4	0.07%	97.19%	
54	1072x670	3	0.05%	97.25%	
55	1135x641	3	0.05%	97.30%	
56	1138x640	3	0.05%	97.35%	
57	1191x670	3	0.05%	97.41%	
58	1192x670	3	0.05%	97.46%	
59	1360x1024	3	0.05%	97.51%	
60	1382x864	3	0.05%	97.57%	
61	360x480	3	0.05%	97.62%	
62	480x800	3	0.05%	97.67%	
63	800x1311	3	0.05%	97.73%	
64	800x335	3	0.05%	97.78%	
65	800x450	3	0.05%	97.83%	
66	1024x1280	2	0.04%	97.87%	
67	1024x614	2	0.04%	97.90%	
68	1067x800	2	0.04%	97.94%	
69	1117x894	2	0.04%	97.97%	
70	1170x936	2	0.04%	98.01%	
71	1200x1920	2	0.04%	98.05%	
72	1249x702	2	0.04%	98.08%	
73	1402x877	2	0.04%	98.12%	
74	1441x810	2	0.04%	98.15%	
75	1600x796	2	0.04%	98.19%	
76	1613x1008	2	0.04%	98.22%	
77	1688x949	2	0.04%	98.26%	
78	1755x987	2	0.04%	98.29%	
79	1833x1145	2	0.04%	98.33%	
80	2560x960	2	0.04%	98.37%	
81	3840x1200	2	0.04%	98.40%	
82	800x1138	2	0.04%	98.44%	
83	800x1182	2	0.04%	98.47%	
84	800x1184	2	0.04%	98.51%	
85	800x285	2	0.04%	98.54%	
86	800x336	2	0.04%	98.58%	
87	800x348	2	0.04%	98.61%	
88	853x683	2	0.04%	98.65%	

1680 x 1050

Browser window: <http://oss.weathershare.org/>

Navigation: Road/Travel Conditions | Current Weather | Forecast Weather | Other Info

Map Tools: Route Planner | Map

Map Legend:

- Active CMS
- CCTV Camera
- Construction
- Information
- RWS with Road Temp ≤ 32°
- Inactive CMS
- Chain Restriction
- Incident
- Commercial Vehicle Information
- RWS

Map data ©2012 Google, INEGI - Terms of Use

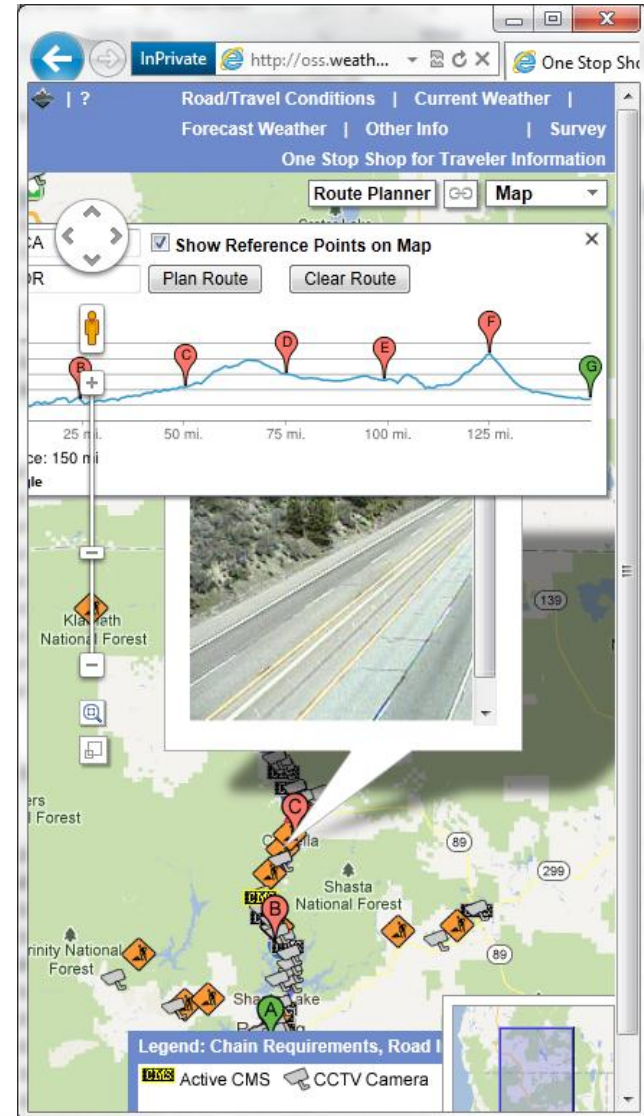
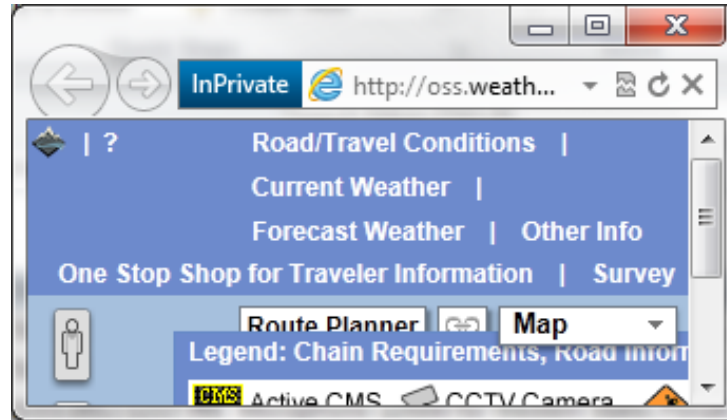
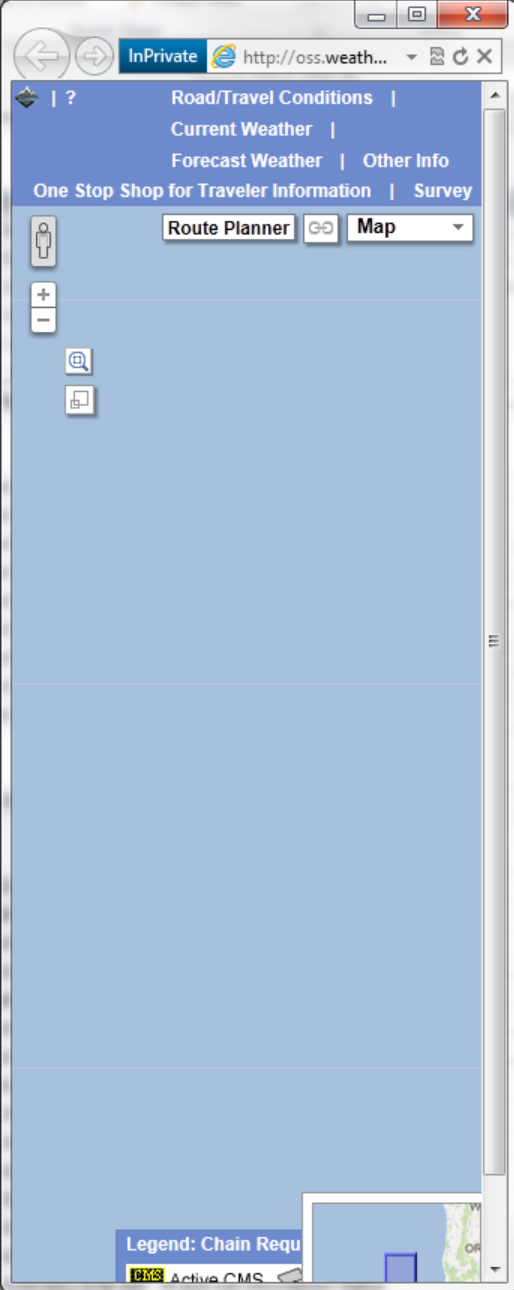
System tray: 1:03 PM 5/15/2012

1280 x 1024

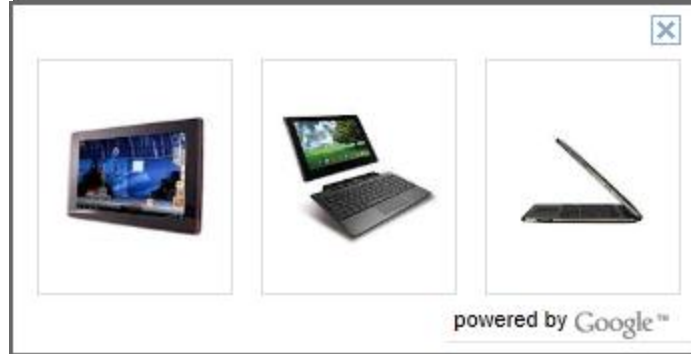
Legend: Chain Requirements, Road Information, Incidents, CMS, CCTV, RWIS

Active CMS	CCTV Camera	Construction	Information	RWIS with Road Temp ≤ 32°
Inactive CMS	Chain Restriction	Incident	Commercial Vehicle Information	RWIS

Oops or %#@^*! or something else?



1.	Apple iPad	456
2.	Apple iPhone	117
3.	(not set)	27
4.	Motorola DroidX	17
5.	SonyEricsson LT15i Xperia Arc	11
6.	HTC ADR6300 Incredible	10
7.	HTC EVO 4G	8
8.	Motorola Droid X2	8
9.	HTC ADR6400L Thunderbolt 4G	7
10.	Motorola xt875 Droid Bionic	6
11.	Apple iPod Touch	5
12.	Samsung GT-P1000 Galaxy Tab	4
13.	Verizon Droid	4
14.	HTC 001HT Desire HD SoftBank	3
15.	Asus Eee Pad Transformer TF101	2
16.	HTC Inspire	2
17.	Motorola MB860 Atrix	2
18.	Samsung SGH-I997	2
19.	T-Mobile myTouch4G	2
20.	Google Nexus S 4G Samsung Nexus S 4G	1
21.	HTC Desire	1
22.	HTC PC36100 EVO 4G	1
23.	LG Ally	1
24.	LG VM670 Optimus V	1
25.	Motorola Droid 2	1



<u>Mobile Device Info</u>	<u>Visits</u>
Samsung GT-P1000 Galaxy Tab	4
Verizon Droid	4
HTC 001HT Desire HD SoftBank	3
Asus Eee Pad Transformer TF101	2
HTC Inspire	2
Motorola MB860 Atrix	2
Samsung SGH-I997	2
T-Mobile myTouch4G	2
Google Nexus S 4G Samsung Nexus S 4G	1
HTC Desire	1
HTC PC36100 EVO 4G	1
LG Ally	1
LG VM670 Optimus V	1
Motorola Droid 2	1
RIM BlackBerry 9300 Curve 3G	1
Samsung GT-P7510 Galaxy Tab 10.1	1
Samsung SGH A687	1
Samsung SGH-T959 Vibrant	1

Mobile Device Info Visits

(not set)	27
Motorola DroidX	17
SonyEricsson LT15i Xperia Arc	11
HTC ADR6300 Incredible	10
HTC EVO 4G	8
Motorola Droid X2	8
HTC ADR6400L Thunderbolt 4G	7
Motorola xt875 Droid Bionic	6
Apple iPod Touch	5

703 Mobile Visits

<u>Mobile Device Info</u>	<u>Visits</u>
Apple iPad	456
Apple iPhone	117

Some general questions:

- Which layers do people use?
- Which markers do they select?
- Which regions are viewed most?
- Which routes are viewed?
- How does weather impact user choices?
- How do user choices relate to user location?
- What works and what doesn't work in regard to the interface?

Event Tracking

Our intent is to log the following:

- Page Loads
- Layer Selection
- Marker Clicks
- Region Viewed
- More ...

Event Tracking – 1st Attempt

```
//google analytics tracking
window._gaq.push(['_trackEvent', (initialLoad) ? 'Page Load' :
    'Layer Select', callingDiv.id,
    ClarusOSS.application.getTrackingDescriptor()]);

app.setMarkerClickedEvent(function (name, lat, lon, infoWindowURL) {
    //google analytics tracking
    window._gaq.push(['_trackEvent', 'Marker Click',
        ClarusOSS.application.getLayers(), "Marker Loc: " +
        String(lat) + "," + String(lon)]);
});

openAbout: function () {
    document.getElementById("About").style.display = "block";
    window._gaq.push(['_trackEvent', 'About Box Opened', '']);
}
```

Unfortunately, the chief revelation from our event tracking data is that there are problems with our event tracking implementation ...

Nov 1, 2011 – April 30, 2012

Event Category	All Events	Total Events ↓
Layer Select		39,237
Page Load		6,713
Marker Click		414

Event Action	Layer Select Events	Total Events ↓
Incidents		7,085
RoadInfo		7,041
CCTV		7,036
CMS		7,029
clarusstations		6,934
AirTemp		788
wx		695
Chain		490
Wind		322
restareas		254
Precip24hr		178

Event Action	Page Load Events	Total Events ↓
Chain		6,549
AirTemp		143
Incidents		6
clarusstations		4
sky		3
CCTV		1
Precip24hr		1
restareas		1
RoadInfo		1
summits		1
wgust		1
Wind		1
wx		1

Event Action	Marker Click Events	Total Events ↓
CCTV		189
AirTemp		48
Incidents		48
CMS		40
RoadInfo		36
Chain		18
Wind		18
summits		7
clarusstations		5
restareas		3

snow		175
Precip1hr		138
temp		134
wgust		134
pop12		132
wspd		115
AHPS		109
Humidity		94
summits		86
qpf		78
truckscalls		58
featuresofinterest		54
sky		48
rhm		30

Event Tracking 1st Attempt Problems

- Rapid Development Cycle
 - Bugs not caught – marker click event not being recorded via Google Analytics.
 - We Omitted some things like Google Traffic Layer, Routing, etc..
- Events and attributes are incomplete and otherwise not defined well.
- Interface Issues
 - Allowing multiple layers to be displayed simultaneously in Road / Travel Conditions but not elsewhere.
 - Default layer displayed upon menu select.
- Google Analytics might not be the best mechanism for this
 - There is no guarantee that all user-defined events will be recorded.
 - We are unsure if we can retrieve all associated detail.
 - We may be better off attempting to roll our own mechanism for this, but we would need to be careful about bandwidth and storage requirements .
- We should define and post a privacy policy.

Example Web Log

```
153.90.X.X - - [14/May/2012:10:53:18 -0600] "GET / HTTP/1.1" 200 3336 "-" "Mozilla/5.0 (compatible; MSIE 9.0; Windows NT 6.1; WOW64; Trident/5.0)"
153.90.X.X - - [14/May/2012:10:53:18 -0600] "GET /style.css HTTP/1.1" 200 1264 "http://oss.weathershare.org/" "Mozilla/5.0 (compatible; MSIE 9.0; Windows NT 6.1; WOW64; Trident/5.0)"
153.90.X.X - - [14/May/2012:10:53:18 -0600] "GET /clarusoss.js HTTP/1.1" 200 7817 "http://oss.weathershare.org/" "Mozilla/5.0 (compatible; MSIE 9.0; Windows NT 6.1; WOW64; Trident/5.0)"
153.90.X.X - - [14/May/2012:10:53:18 -0600] "GET /icons/close.gif HTTP/1.1" 200 140 "http://oss.weathershare.org/" "Mozilla/5.0 (compatible; MSIE 9.0; Windows NT 6.1; WOW64; Trident/5.0)"
153.90.X.X - - [14/May/2012:10:53:18 -0600] "GET /legendcollapse.png HTTP/1.1" 200 752 "http://oss.weathershare.org/" "Mozilla/5.0 (compatible; MSIE 9.0; Windows NT 6.1; WOW64; Trident/5.0)"
153.90.X.X - - [14/May/2012:10:53:18 -0600] "GET /keydragzoom_packed.js HTTP/1.1" 200 3787 "http://oss.weathershare.org/" "Mozilla/5.0 (compatible; MSIE 9.0; Windows NT 6.1; WOW64; Trident/5.0)"
153.90.X.X - - [14/May/2012:10:53:18 -0600] "GET /activity.gif HTTP/1.1" 200 6090 "http://oss.weathershare.org/" "Mozilla/5.0 (compatible; MSIE 9.0; Windows NT 6.1; WOW64; Trident/5.0)"
153.90.X.X - - [14/May/2012:10:53:18 -0600] "GET /interface.js HTTP/1.1" 200 4901 "http://oss.weathershare.org/" "Mozilla/5.0 (compatible; MSIE 9.0; Windows NT 6.1; WOW64; Trident/5.0)"
```

```
153.90.X.X - - [14/May/2012:10:53:18 -0600] "GET /WSRTC.png HTTP/1.1" 200 39223 "http://oss.weathershare.org/" "Mozilla/5.0 (compatible; MSIE 9.0; Windows NT 6.1; WOW64; Trident/5.0)"
```

```
153.90.X.X - - [14/May/2012:10:53:18 -0600] "GET /link.png HTTP/1.1" 200 503 "http://oss.weathershare.org/" "Mozilla/5.0 (compatible; MSIE 9.0; Windows NT 6.1; WOW64; Trident/5.0)"
153.90.X.X - - [14/May/2012:10:53:18 -0600] "GET /close.png HTTP/1.1" 200 289 "http://oss.weathershare.org/" "Mozilla/5.0 (compatible; MSIE 9.0; Windows NT 6.1; WOW64; Trident/5.0)"
153.90.X.X - - [14/May/2012:10:53:18 -0600] "GET /data/Legends/RoadTravelConditions.png HTTP/1.1" 200 78485 "http://oss.weathershare.org/" "Mozilla/5.0 (compatible; MSIE 9.0; Windows NT 6.1; WOW64; Trident/5.0)"
153.90.X.X - - [14/May/2012:10:53:19 -0600] "GET /data/Current/chain/Chain.json HTTP/1.1" 200 264 "http://oss.weathershare.org/" "Mozilla/5.0 (compatible; MSIE 9.0; Windows NT 6.1; WOW64; Trident/5.0)"
153.90.X.X - - [14/May/2012:10:53:19 -0600] "GET /data/Current/incidents/Incidents.json HTTP/1.1" 200 1492 "http://oss.weathershare.org/" "Mozilla/5.0 (compatible; MSIE 9.0; Windows NT 6.1; WOW64; Trident/5.0)"
153.90.X.X - - [14/May/2012:10:53:19 -0600] "GET /data/Current/roadinfo/RoadInfo.json HTTP/1.1" 200 29019 "http://oss.weathershare.org/" "Mozilla/5.0 (compatible; MSIE 9.0; Windows NT 6.1; WOW64; Trident/5.0)"
153.90.X.X - - [14/May/2012:10:53:19 -0600] "GET /data/Fixed/cms/CMS.json HTTP/1.1" 200 13239 "http://oss.weathershare.org/" "Mozilla/5.0 (compatible; MSIE 9.0; Windows NT 6.1; WOW64; Trident/5.0)"
153.90.X.X - - [14/May/2012:10:53:19 -0600] "GET /data/Fixed/clarusstations/clarusstations.json HTTP/1.1" 200 2953 "http://oss.weathershare.org/" "Mozilla/5.0 (compatible; MSIE 9.0; Windows NT 6.1; WOW64; Trident/5.0)"
153.90.X.X - - [14/May/2012:10:53:19 -0600] "GET /data/Fixed/cctv/CCTV.json HTTP/1.1" 200 24346 "http://oss.weathershare.org/" "Mozilla/5.0 (compatible; MSIE 9.0; Windows NT 6.1; WOW64; Trident/5.0)"
153.90.X.X - - [14/May/2012:10:53:19 -0600] "GET /zoom.png HTTP/1.1" 200 287 "http://oss.weathershare.org/" "Mozilla/5.0 (compatible; MSIE 9.0; Windows NT 6.1; WOW64; Trident/5.0)"
153.90.X.X - - [14/May/2012:10:53:20 -0600] "GET /icons/RoadInfoAggregate.png HTTP/1.1" 200 59732 "http://oss.weathershare.org/" "Mozilla/5.0 (compatible; MSIE 9.0; Windows NT 6.1; WOW64; Trident/5.0)"
```

Log Entry Dissected





```
1. 153.90.X.X
2. -
3. -
4. [14/May/2012:10:53:18 -0600]
5. "GET /WSRTC.png HTTP/1.1" 200 39223
6. "http://oss.weathershare.org/"
7. "Mozilla/5.0 (compatible; MSIE 9.0; Windows NT 6.1;
   WOW64; Trident/5.0) "
```

1. IP Address
2. Client Machine Name (not reported)
3. Client Identity (not report)
4. Date/Time
5. HTTP Request: method (GET), Resource, status (OK), Size
6. Referrer
7. User Agent: Mozilla compatible, IE 9, Windows 7, 32-bit app running on 64-bit processor, Layout engine for IE + version

Deciphered with help from: <http://www.useragentstring.com/>

Online Survey via Survey Monkey

1. How often will/do you visit the One Stop Shop (OSS) website for information?

		Response Percent	Response Count
First time visitor		50.0%	3
Website is open all the time		0.0%	0
Hourly		16.7%	1
Daily		16.7%	1
Weekly		16.7%	1
Monthly		0.0%	0
		Other (please specify)	2

As conditions require

3/14/2012 2:22 PM [View Responses](#)

Seasonally, predominantly for winter storm watch

1/20/2012 8:15 AM [View Responses](#)

answered question 6

skipped question 2

2. When/why will/do you use (or intend to use) the information? (Check all that are applicable.)

		Response Percent	Response Count
Trip planning		87.5%	7
Under changing conditions only		37.5%	3
During incident conditions (storm/fire etc)		87.5%	7
Daytime hours		62.5%	5
Nighttime hours		50.0%	4
	Other (please specify)		3

For work info also
3/14/2012 2:22 PM

On our iPhone while traveling - if we can figure out how to interpret the abbreviations in the Legend. Not much help if we can't figure that out!
1/23/2012 4:41 PM

checking conditions for trucking runs from Northern Sacramento Valley north into Klamath Falls/Tulelake area and south into the San Joaquin Vly
1/17/2012 10:28 PM

answered question 8

skipped question 0

3. Now we would like you to rate the usefulness of the Road/Travel Conditions data on the OSS website that you have used at least once. For each feature that you have not used, please indicate whether you were aware of this feature before taking this survey. (Please make a single selection for each data element.)

	Very Useful	Somewhat Useful	Not Very Useful	Aware of it	Not Aware of it	Response Count
Chain Requirements	75.0% (6)	12.5% (1)	0.0% (0)	12.5% (1)	0.0% (0)	8
Road Information	75.0% (6)	12.5% (1)	12.5% (1)	0.0% (0)	0.0% (0)	8
Incidents	75.0% (6)	12.5% (1)	12.5% (1)	0.0% (0)	0.0% (0)	8
Changeable Message Sign Text	87.5% (7)	0.0% (0)	0.0% (0)	12.5% (1)	0.0% (0)	8
CCTV Images	57.1% (4)	28.6% (2)	0.0% (0)	14.3% (1)	0.0% (0)	7
RWIS	42.9% (3)	28.6% (2)	0.0% (0)	14.3% (1)	14.3% (1)	7
				answered question		8
				skipped question		0

4. Now we would like you to rate the usefulness of Current Weather data on the OSS website that you have used at least once. For each feature that you have not used, please indicate whether you were aware of this feature before taking this survey. (Please make a single selection for each data element.)

	Very Useful	Somewhat Useful	Not Very Useful	Aware of it	Not Aware of it	Response Count
Air Temperature	75.0% (6)	0.0% (0)	0.0% (0)	12.5% (1)	12.5% (1)	8
Relative Humidity	37.5% (3)	37.5% (3)	0.0% (0)	12.5% (1)	12.5% (1)	8
1-Hour Precipitation	50.0% (4)	25.0% (2)	0.0% (0)	12.5% (1)	12.5% (1)	8
24-Hour Precipitation	62.5% (5)	12.5% (1)	0.0% (0)	12.5% (1)	12.5% (1)	8
AHPS 24-Hour Precipitation	42.9% (3)	14.3% (1)	0.0% (0)	28.6% (2)	14.3% (1)	7
Wind	75.0% (6)	0.0% (0)	0.0% (0)	12.5% (1)	12.5% (1)	8
				answered question		8
				skipped question		0

5. Please rate the usefulness of Forecast Weather data on the OSS website that you have used at least once. For each feature that you have not used, please indicate whether you were aware of this feature before taking this survey. (Please make a single selection for each data element.)

	Very Useful	Somewhat Useful	Not Very Useful	Aware of it	Not Aware of it	Response Count
Air Temperature	50.0% (4)	12.5% (1)	0.0% (0)	12.5% (1)	25.0% (2)	8
Wind Speed	50.0% (4)	12.5% (1)	0.0% (0)	12.5% (1)	25.0% (2)	8
Wind Gust Speed	50.0% (4)	12.5% (1)	0.0% (0)	12.5% (1)	25.0% (2)	8
Humidity	25.0% (2)	37.5% (3)	0.0% (0)	12.5% (1)	25.0% (2)	8
Sky Cover	37.5% (3)	12.5% (1)	0.0% (0)	12.5% (1)	37.5% (3)	8
12-Hour Chance of Precipitation	50.0% (4)	12.5% (1)	0.0% (0)	12.5% (1)	25.0% (2)	8
6-Hour Precipitation	50.0% (4)	12.5% (1)	0.0% (0)	12.5% (1)	25.0% (2)	8
Snow	62.5% (5)	12.5% (1)	0.0% (0)	12.5% (1)	12.5% (1)	8
Weather	42.9% (3)	14.3% (1)	0.0% (0)	14.3% (1)	28.6% (2)	7
				answered question		8
				skipped question		0

6. Please rate the usefulness of the Other Information data on the OSS website that you have used at least once. For each feature that you have not used, please indicate whether you were aware of this feature before taking this survey. (Please make a single selection for each data element.)

	Very Useful	Somewhat Useful	Not Very Useful	Aware of it	Not Aware of it	Response Count
Rest Areas	50.0% (4)	25.0% (2)	0.0% (0)	12.5% (1)	12.5% (1)	8
Features of Interest	25.0% (2)	37.5% (3)	0.0% (0)	12.5% (1)	25.0% (2)	8
Truck Scales	12.5% (1)	12.5% (1)	12.5% (1)	37.5% (3)	25.0% (2)	8
Summit Locations	37.5% (3)	37.5% (3)	0.0% (0)	12.5% (1)	12.5% (1)	8
				answered question		8
				skipped question		0

7. Now we would like you to rate the usefulness of the features on the website that you have used at least once. For each feature that you have not used, please indicate whether you were aware of this feature before taking this survey (Please make a single selection for each feature.)

	Very Useful	Somewhat Useful	Not Very Useful	Aware of it	Not Aware of it	Response Count
Route Planner	28.6% (2)	14.3% (1)	0.0% (0)	42.9% (3)	14.3% (1)	7
Google Map Display & Zoom Function	57.1% (4)	0.0% (0)	0.0% (0)	14.3% (1)	28.6% (2)	7
Google Terrain	42.9% (3)	14.3% (1)	0.0% (0)	14.3% (1)	28.6% (2)	7
Google Satellite Imagery	42.9% (3)	14.3% (1)	0.0% (0)	14.3% (1)	28.6% (2)	7
				answered question		7
				skipped question		1

8. Based on your experience using the website, please evaluate the site in terms of the following aspects – indicate your level of agreement with these statements.

	Strongly Agree	Somewhat Agree	Neither Agree nor Disagree	Somewhat Disagree	Strongly Disagree	Response Count
The site is well organized and user friendly.	71.4% (5)	0.0% (0)	14.3% (1)	0.0% (0)	14.3% (1)	7
The site presents the right amount of information.	71.4% (5)	14.3% (1)	0.0% (0)	14.3% (1)	0.0% (0)	7
I would like to see additional information added.	42.9% (3)	0.0% (0)	57.1% (4)	0.0% (0)	0.0% (0)	7
I would like to see less information presented.	14.3% (1)	0.0% (0)	28.6% (2)	14.3% (1)	42.9% (3)	7
Information should be presented in a different format than the current one.	28.6% (2)	0.0% (0)	14.3% (1)	28.6% (2)	28.6% (2)	7
I find the information presented timely and useful.	42.9% (3)	42.9% (3)	14.3% (1)	0.0% (0)	0.0% (0)	7
I find the information presented accurate and understandable.	57.1% (4)	0.0% (0)	14.3% (1)	28.6% (2)	0.0% (0)	7
				answered question		7
				skipped question		1

9. What additional information, if any, would you like to have, which is not available currently at this site? (Please specify the type, format, frequency of updating, and accuracy of data, if applicable.)

Response
Count

3

If this is a statewide effort why is it for instance, that chain controls are not available in the Calif dist 3 area but other districts are?
3/14/2012 2:22 PM

CA 89 chain requirement information missing from Sierraville through Lake Tahoe.
2/29/2012 10:04 AM

When I click on an RWIS icon in Calif, a list of info comes up, but I do not know what all the entries mean. A key or legend would be nice. For instance, what is precipitation type 2 vs type 3. What is "ess"? Estimated? If so, that should be abbreviated "est".
1/17/2012 10:28 PM

answered question 3
skipped question 5

10. What are the chief benefits of this website to you in the context of your current usage? Please be as specific as possible.

Response

Count

4

So amazing that this has been created- thanks to all. I love showing it off and sending it to friends and family. It can't be beat for travel planning, and checking on road conditions, accidents, looking at web cam, etc. Beats calling for road conditions.

2/29/2012 11:12 AM

Additional information from what Caltrans Quickmap provides

2/29/2012 10:04 AM

Trip planning during adverse weather conditions.

1/20/2012 8:15 AM

very helpful in helping me to decide when to leave on my run, especially up into Oregon, as that weather changes abruptly at times. The weather data provided (both current and forecast) helps me greatly when traveling on US97. I-5 gets all kinds of informational coverage, but finding info for the other hwys can be very very trying. Also helps to know what to expect in certain trouble prone areas.

1/17/2012 10:28 PM

answered question

4

skipped question

4

11. Please also indicate how this website could be improved to better meet your needs. Consider information content, ease of use of the site, ability to understand what is presented and anything else that could make this site better.

Response

Count

4

I haven't any at this time

2/29/2012 11:12 AM

CA 89 chain requirement information missing from Sierraville through Lake Tahoe. Because of this, I have to question if other information is being omitted.

2/29/2012 10:04 AM

PLEASE don't use abbreviations on the Legend. Legends are supposed to explain things. CMS, CCTV, RWIS are letter groupings that have no meaning to me. Help us amateurs out. Explain yourselves.

1/23/2012 4:41 PM

See question 9

1/17/2012 10:28 PM




answered question

4

skipped question

4

12. User category:

		Response Percent	Response Count
General public/traveler		57.1%	4
Transportation professional (ex. DOT)		28.6%	2
Goods movement/commercial trucking		14.3%	1
Law enforcement		0.0%	0
		Other (please specify)	1




also work for a county, and we have a link to it for public using our front facing GIS pages

2/29/2012 11:12 AM

answered question 7

skipped question 1

13. (OPTIONAL) Please enter your contact information (Note: information will be kept private/confidential and will be used for study purposes only).

		Response Percent	Response Count
Name		66.7%	4
Location (state)		100.0%	6
Northern California 2/29/2012 11:12 AM			
Truckee, Nevada County, California 2/29/2012 10:04 AM			
California 1/23/2012 4:41 PM			
Oregon 1/20/2012 8:15 AM			
Redding, CA 1/19/2012 11:27 AM			
N California 1/17/2012 10:28 PM			
Email		66.7%	4
		answered question	6
		skipped question	2

Direct Comments

Check out NOAA's NWS geographical forecasts at <http://graphical.weather.gov/sectors/stoWeek.php>. Click the expand' hyperlink located at the upper left corner of the table to get a larger table (more hyperlinks). Then hover the mouse over the table to view updated graphical images by the hour. Complete District 2 coverage would be great to incorporate for CT scheduling at TMC, Dispatch, and Maintenance levels. It's an interesting display approach and something to consider.

May want to be thinking of a way to monitor server performance and when it degrades, cap it at a fixed number of users and put up a server busy notice to all others. I think that would be preferable to a major speed bog down for everyone. Maybe I am just having a fit of wishful thinking.

I think we should have a link added to the www.weathershare.org as well.

I recommend having a date and time stamp placed somewhere on the map to ensure that users are using current information. Remember that each individual data stream or data point has its own time of update and they are all different. You will notice that each data element has a timestamp when you pull it up. It will likely be significantly different from other similar elements (for example the CCTV at Dorris vs. the CCTV at Hatchet Mtn. are 25 minutes different) Users need to pay attention to the timestamp on the particular data they are accessing because it will likely vary. This is a semi-real-time system and as we expand it to more states the time variability will increase. The automatic updates of the user interface should allow the user to alert on something that has obviously changed - like a CMS being turned on and the icon going yellow or an incident happening. You still need to open it and see when the actual event happened.

Had a suggestion from ... here in the district to add Postmiles to the site. We do that on our district CCTV elements that we display on the district web site. It may not be a bad idea to do it. The public generally doesn't understand the postmile system (in my opinion it's another one of the ongoing stream of great Caltrans PR blunders - because it would be really helpful for them in reporting accidents, etc.), but transportation users do and it would make the site more valuable to them.

I wonder if it is worth doing a 5 minute YouTube video on OSS and how to use it. Maybe, have some of the tags tie it to weather, storm chasers, as well as travel.

*Investigate the following for chain control data:
<http://www.dot.ca.gov/chaincontrol/ccdata.txt>*

Couple of questions.

I noticed that OSS shows no chain control "tires" on the map, but QuickMap and D3's chain control map show R2 on SR 80 and SR 50. Is there a problem with OSS?

When you turn off some of the choices (RWIS, Cameras, etc.) and then close out the internet, when you return to OSS all the choices are back and you have to turn them off again. Any way to keep them off for the next time?

Really cool site! Very useful!

Totally cool !

I had this thought which I think would enhance OSS. It would be useful to visually code the chain control symbols based on the chain control level (i.e. light blue symbol for R-1M, blue for R-1, red for R-2, etc.). That way, you wouldn't even have to zoom in and click on the symbol to see the restrictions and you'd have a better feel for the entire corridor. We could attempt to match the coloring scheme as closely as possible across state lines as well.

This is fantastic! It will be really useful for planning our trips when we are doing field work or visiting our agencies. Thank you for sharing.

Thank you! Great resource!

Had a CMS phantom occur early afternoon yesterday. The CMS at "Walters Lane S/B - Yreka" was yellow indicating it had a message up. After clicking on the icon the window popped up but showed a blank CMS. Tried this several times over the course of an hour (approximately 13:00 to 14:00). Sign icon went back to black/gray later in the afternoon.

Checked with the TMC before I left for the day at they said they did have the sign on and there was a message about an accident around the time I saw the yellow icon.

I have not noticed this problem before on any of our CMSs.

Thanks - looks cool.

Western States OSS on the big screen in the Caltrans Division of Research and Innovation lobby in Sacramento



Photo by Sean Campbell

Future Items of Interest

- Report a problem and Automated Quality Control Methods
- Better ways to test interface elements: A/B testing?
- Other ways to get the word out – Social Networking?
- Other devices?
- Expansion
- Sustainability
- Other?

Western States OSS

Try it out:

<http://oss.weathershare.org/>

For further information:

<http://www.westernstates.org/Projects/OSS/>

Brief Live Demonstration

- If time, network, etc. allow ...

Questions?