

UDOT Traveler Information System

Presented by:

Dave Kinnecom

UDOT Traffic Operations Manager



I-80 Corridor

Traffic Operations Center Traveler Information

- UDOT's Traffic Operations Center serves the entire state and all the of I-80 corridor
- 35,000 SF building houses UDOT and Department of Public Safety Communications Bureau



Traffic Operations Center Functions

- Traffic Management
 - Incident Management
 - Traffic Signal Operations
 - Ramp Meter Operations
 - DMS Operations

Traffic Operations Center Functions

- Traveler Information
 - CommuterLink Web Site
 - 511
 - Commercial radio broadcasts
 - Traffic Video to 4 local TV stations





Utah's I-80 ITS Infrastructure

- Dynamic Message Signs
 - 9 Westbound
 - 9 Eastbound
- Cameras
 - 64 PTZ full motion – Salt Lake Metro
 - 7 on Road/Weather Stations





Know Before You Go™

Construction | Travel Times | Weather Forecast

You are here: [Home](#)

Traffic Maps

- Statewide
- Farmington
- Ogden
- Park City
- Provo
- Salt Lake City
- Sandy
- US-6
- St. George

State Travel Info

- Rest Areas
- Seasonal Road Closures
- Scenic Byways

Additional Info

- Emergency Alerts
- Utah Air Quality Alerts
- CommuterLink FAQs
- Contact Us
- Construction Alerts
- Planned Special Event Alerts
- Report Traffic Signal Problems
- Utah Fire Info
- Utah Department of Transportation
- Disclaimer

Neighboring States

- Arizona
- Colorado
- Idaho
- Nevada
- New Mexico
- Wyoming

Home

WELCOME: Please roll over an icon or camera for more details. Zoom in for more cameras or icons.

Hide Cameras
 Show Signs
 Show Incidents
 Show Construction
 Show Weather



■ 51 - 65mph
 ■ 31 - 50mph
 ■ 0 - 30mph
 ■ No Data

[Make this my default map](#)

What is CommuterLink?

CommuterLink is Utah's traffic authority. More than 400 overhead traffic cameras and 600 in-road traffic sensors are constantly capturing photographs, video and traffic data on all major Utah Department of Transportation roads. The photos, videos and traffic data on this website are used

Cameras



Statewide | 100 South @ 400 East (St. C)

Incidents

- Stalled/Stopped Vehicle out of traffic - I 80 MP 139**
 Direction: Eastbound
■ Low (less than 5 minutes delays)
 Lanes Impacted: 1 - Right shoulder
 Estimated Duration: 2 hours
 Details: 1 automobile(s), Right shoulder
 Last Updated: 12/07/09 01:53 PM
 - Accident - I 15 MP 216**
 Direction: Northbound
■ Low (less than 5 minutes delays)
 Lanes Impacted: 1 - Left shoulder
 Estimated Duration: Unknown
 Details: 1 automobile(s), Left shoulder
 Last Updated: 12/07/09 02:58 PM
- There are no active planned event(s) to report at this time.

National Weather Service Forecast

Late Afternoon



Snow, High 37

Tonight



Snow, Low 21

Cedar City



[Click here for more info](#)



Know Before You Go™

Construction | Travel Times | Weather Forecast

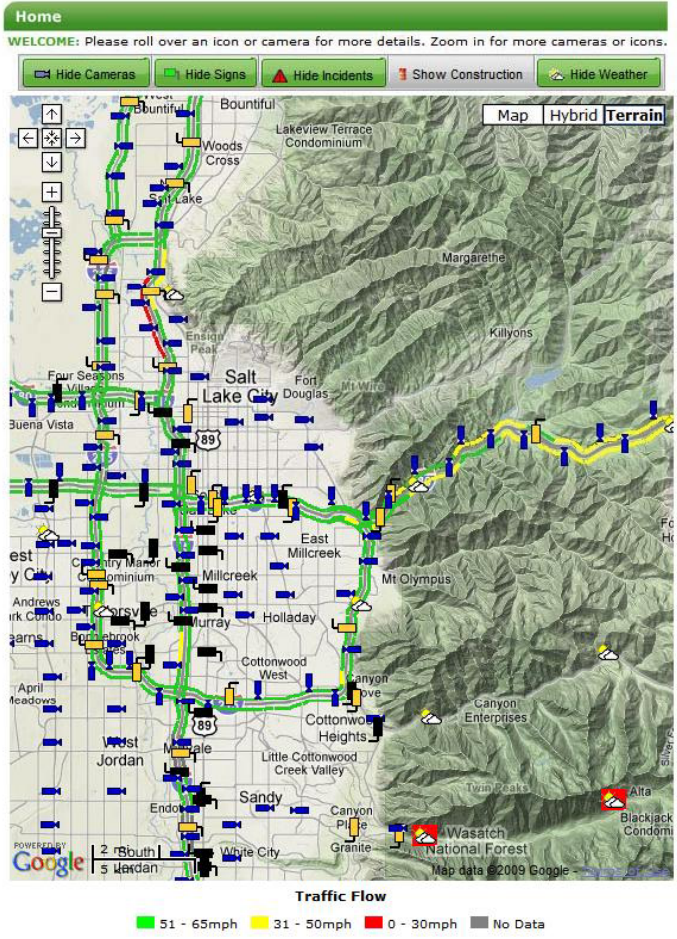
You are here: [Home](#)

- ### Traffic Maps
- Statewide
 - Farmington
 - Ogden
 - Park City
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 - Salt Lake City
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 - US-6
 - St. George

- ### State Travel Info
- Rest Areas
 - Seasonal Road Closures
 - Scenic Byways
 - Winter tips

- ### Additional Info
- Emergency Alerts
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Cameras

180 E (ns) 136.4

I 80 MP 135e4

commuterlink.utah.gov 10:36AM 01/23

Salt Lake City | 10400 S Bangerter Hwy 9.8

Incidents

Closure - SR 143 Brian Head to Mammoth Creek Road
 Direction: Both-Directions
 Low (less than 5 minutes delays)
 Lanes Impacted: 1 - All lanes
 Estimated Duration: Until Further Notice
 Details: Closed due to hazardous winter conditions, All lanes, Department of Transportation on site
 Last Updated: 01/22/10 09:14 AM

Closure - SR 14 Cedar City to Long Valley Junction
 Direction: Both-Directions
 Low (less than 5 minutes delays)
 Lanes Impacted: 1 - All lanes
 Estimated Duration: Until Further Notice
 Details: Closed between milepost 0 and 40 due to hazardous winter conditions, All lanes, Department of Transportation on site
 Last Updated: 01/22/10 09:22 AM

Special Event - SR 224 at Park City
 Direction: All Directions

National Weather Service Forecast

Today	Tonight
Snow, High 16	Snow, Low 10



UTAH DEPARTMENT OF TRANSPORTATION
TRAFFIC OPERATIONS CENTER

10:10 AM Saturday, January 23, 2010





This document contains 2 pages.

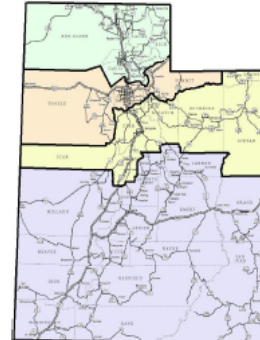


or 1-866-511-8824

CANYON RESTRICTIONS

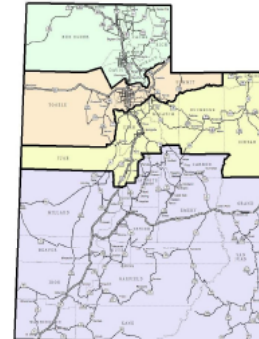
REGION 1: Including Box Elder / Cache / Weber Counties

-  **I-84**
Idaho to Blue Creek Summit **SNOW TIRES / CHAINS / 4X4 ADVISED**
-  **US-89**
Lower Logan Canyon **SNOW TIRES / CHAINS / 4X4 ADVISED**
-  **US-89**
Upper Logan Canyon **SNOW TIRES / CHAINS / 4X4 ADVISED**
-  **US-89 / US-91**
I-15 to Wellsville via Sardine Canyon **SNOW TIRES / CHAINS / 4X4 ADVISED**



REGION 2: Including Salt Lake County

-  **I-80 Westbound**
Through Parleys Canyon **NO RESTRICTIONS**
-  **I-80 Eastbound**
Through Parleys Canyon **NO RESTRICTIONS**
-  **SR-210**
Little Cottonwood Canyon **CHAINS / 4X4 REQUIRED**
-  **SR-209**
Big Cottonwood Canyon **NO RESTRICTIONS**

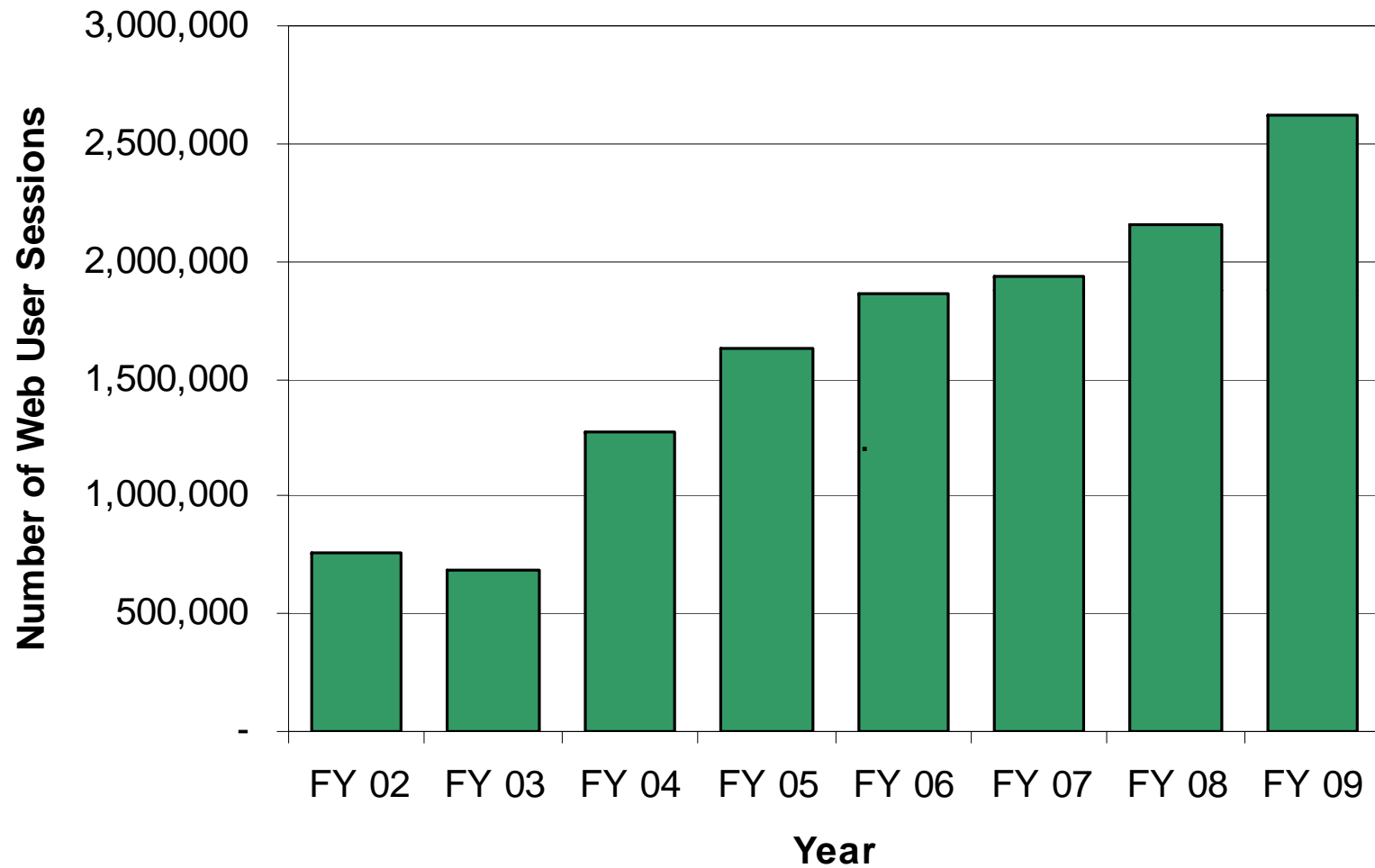


REGION 3: Including Utah / Duchesne Counties

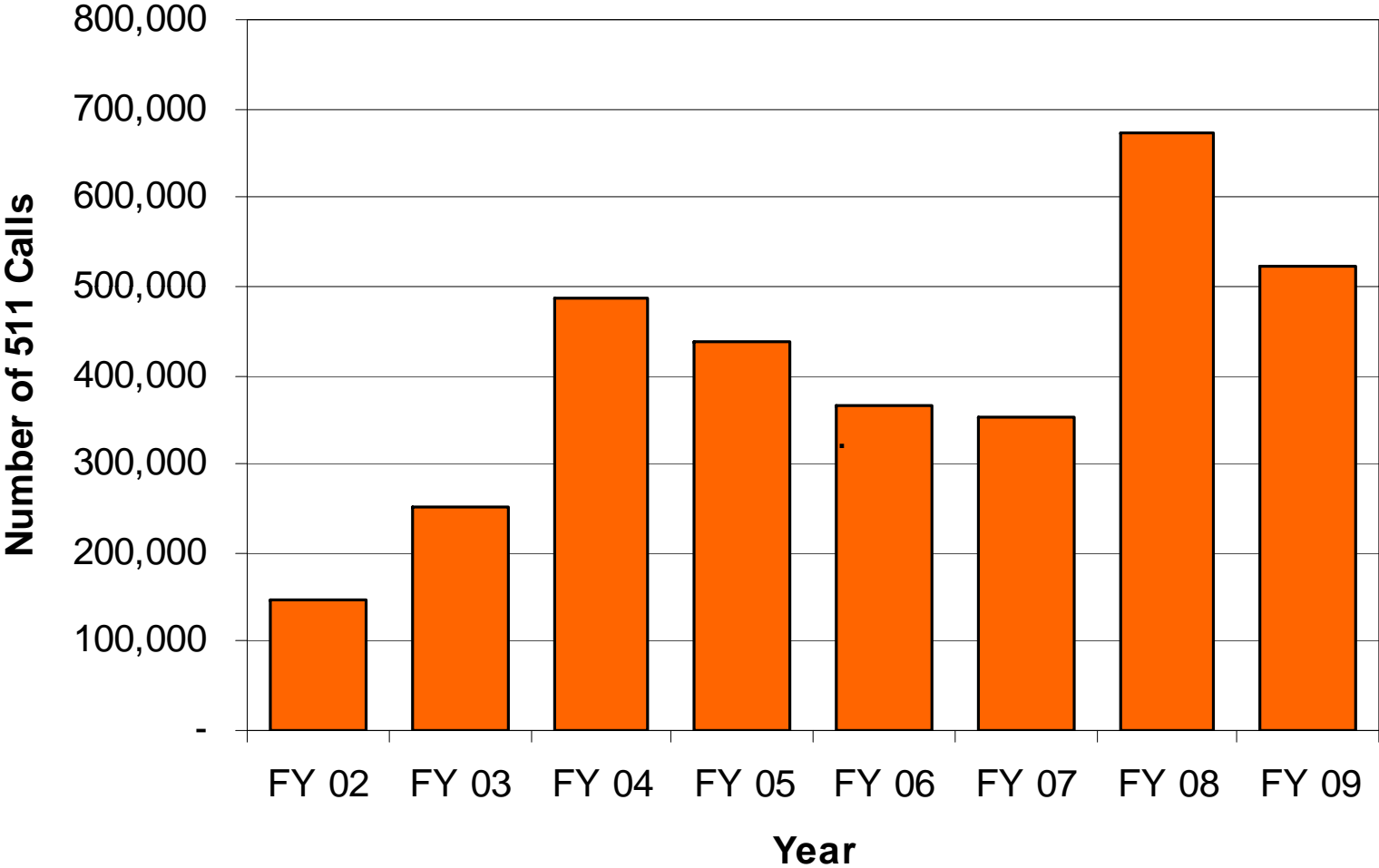
-  **US-6**
Spanish Fork to Skyview **NO RESTRICTIONS**



CommuterLink User Sessions



511 Calls



ISSUES - CHALLENGES

- Limited information in rural areas – We need Computer-Aided Dispatch
- Poor understanding of inter-city customer needs
- What is the future of en-route traveler information ? HAR and 511 have significant limitations.

UDOT Weather Operations

Presented by:

Ralph Patterson

UDOT Chief
Meteorologist



I-80 Corridor

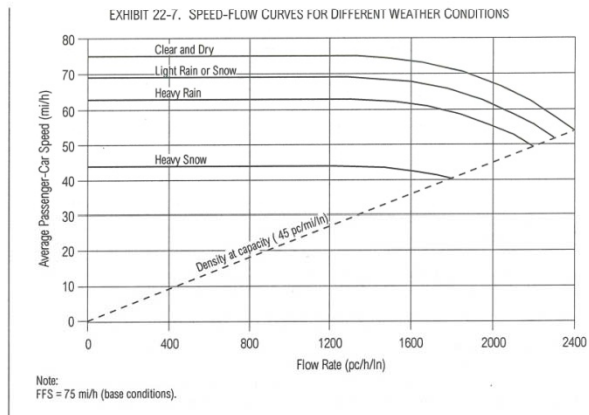
UDOT Weather Operations Highlights



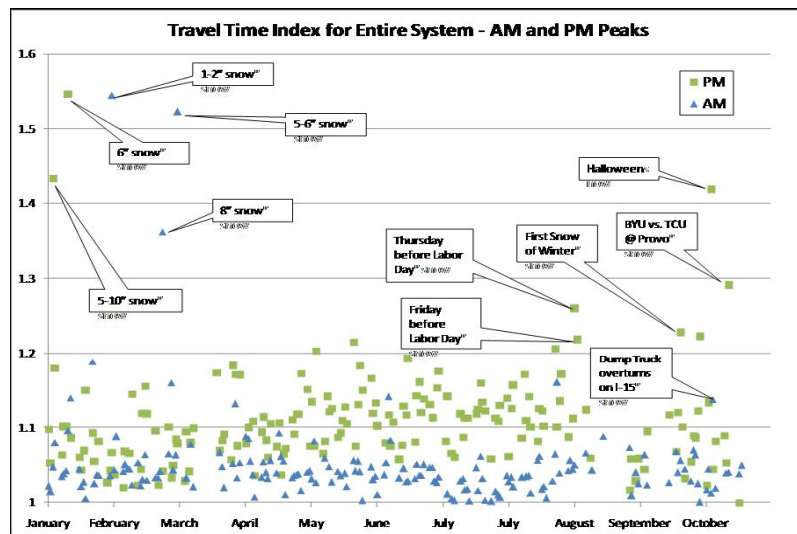
- Research
- Impacts VS Forecast
- 511/Traveler Information
- Road Condition Forecasts RYG
- RWIS
- I-80 Partnering Opps

RESEARCH

Highway Capacity Manual 2000



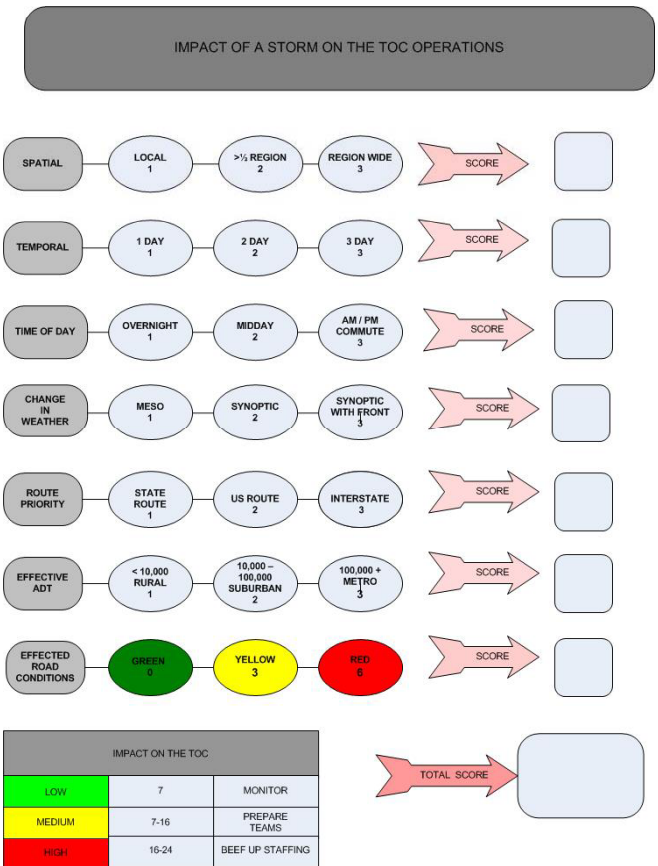
- Partners
 - U of U
 - BYU
 - NWS
 - AURORA



IMPACT VS FORECAST



- Trends
- Crashes
- Delays
- LOS
- Staffing
- Materials



511 TRAVELER INFORMATION

- Dedicated Meteorologist
- Graphics



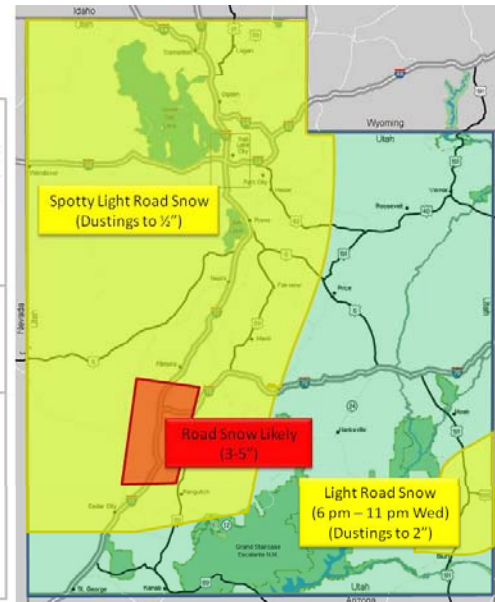
TRAVEL WEATHER HIGHLIGHTS UDOT / Northwest Weathernet

Forecast:
Wed night / Thu morning
(10 pm Wed – 10 am Thu)

Issued:
3 pm Wed (1/13/10)

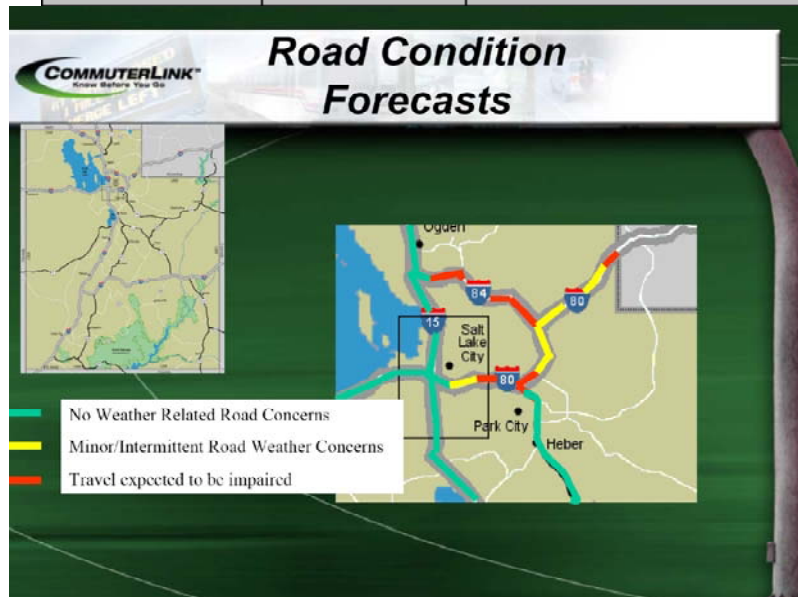
Notes: none

-  **High Caution** – Impaired Travel Expected
-  **Moderate Caution** – Minor/intermittent weather related travel concerns
-  **Low Caution** – Minimal to no weather related travel concerns

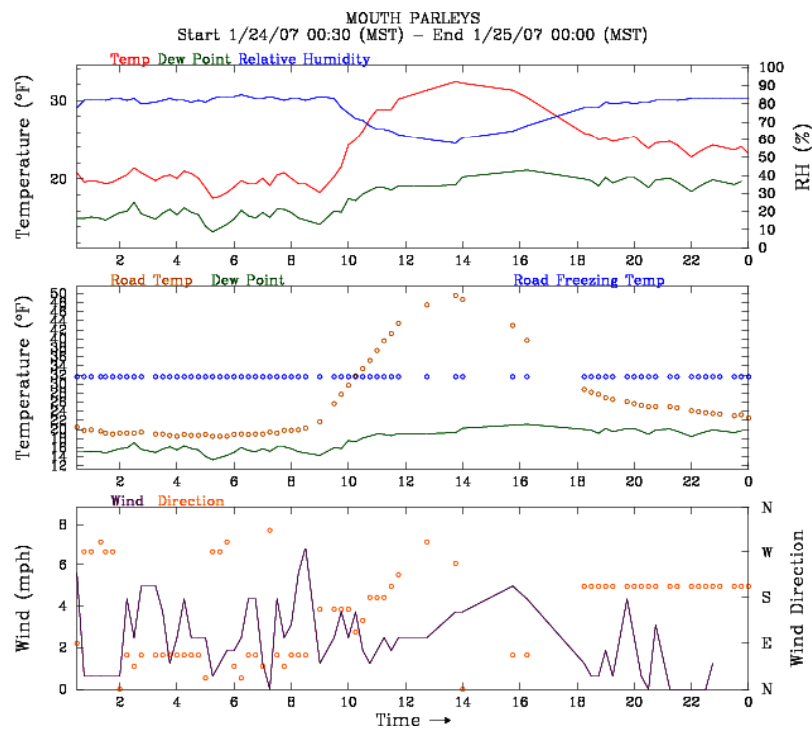


Red Yellow Green Impact Scale

	<i>Degree of Caution</i>	<i>Weather Impact On Travel</i>	<i>Recommended Action</i>
GREEN	Low	Minimal	Normal Caution
YELLOW	Moderate	Minor/intermittent weather related road concerns anticipated	Monitor 511, Commuterlink Web page and NWS Weather Forecasts.
RED	High	Travel expected to be impaired. Be prepared for hazardous road conditions	Monitor 511, Commuterlink Web page and NWS weather forecasts. Be prepared to alter travel plans as necessary



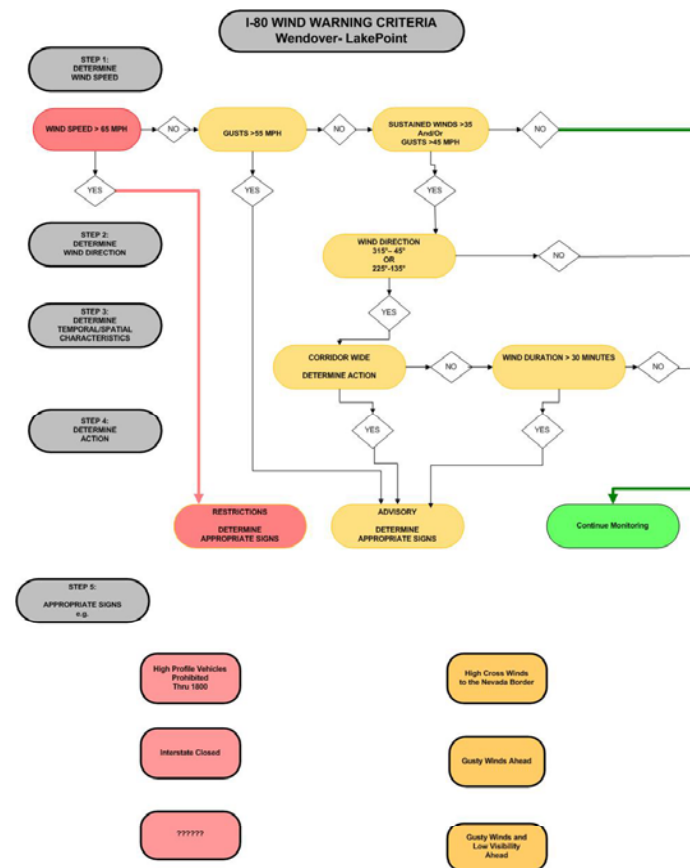
RWIS-ESS



- Pyronometers
- Radar
- Non-invasive
- PTZ Cameras
- IP Protocol Communications
- Alternative power

I-80 Partnering

- Common 511 messages/format
- Similar messages/library
 - VMS/DMS
 - HAR
 - Road condition reports
- Interaction between TMC's
- Mutual Road Weather Forecasts Impact Based (RYG)



UDOT Winter Maintenance Organization and Strategy

Presented by:

Richard Clarke

UDOT Engineer for Maintenance



I-80 Corridor

Utah Routes and Regions

The complete I-80 route through Utah is the responsibility of UDOT's Region 2



I-80 Corridor

Setting

100 miles -- Salt Flats and
Great Salt Lake Desert

28 miles – Salt Lake City
metropolitan area

68 miles -- of steep mountain
grades with two summits

I-80 Tooele County



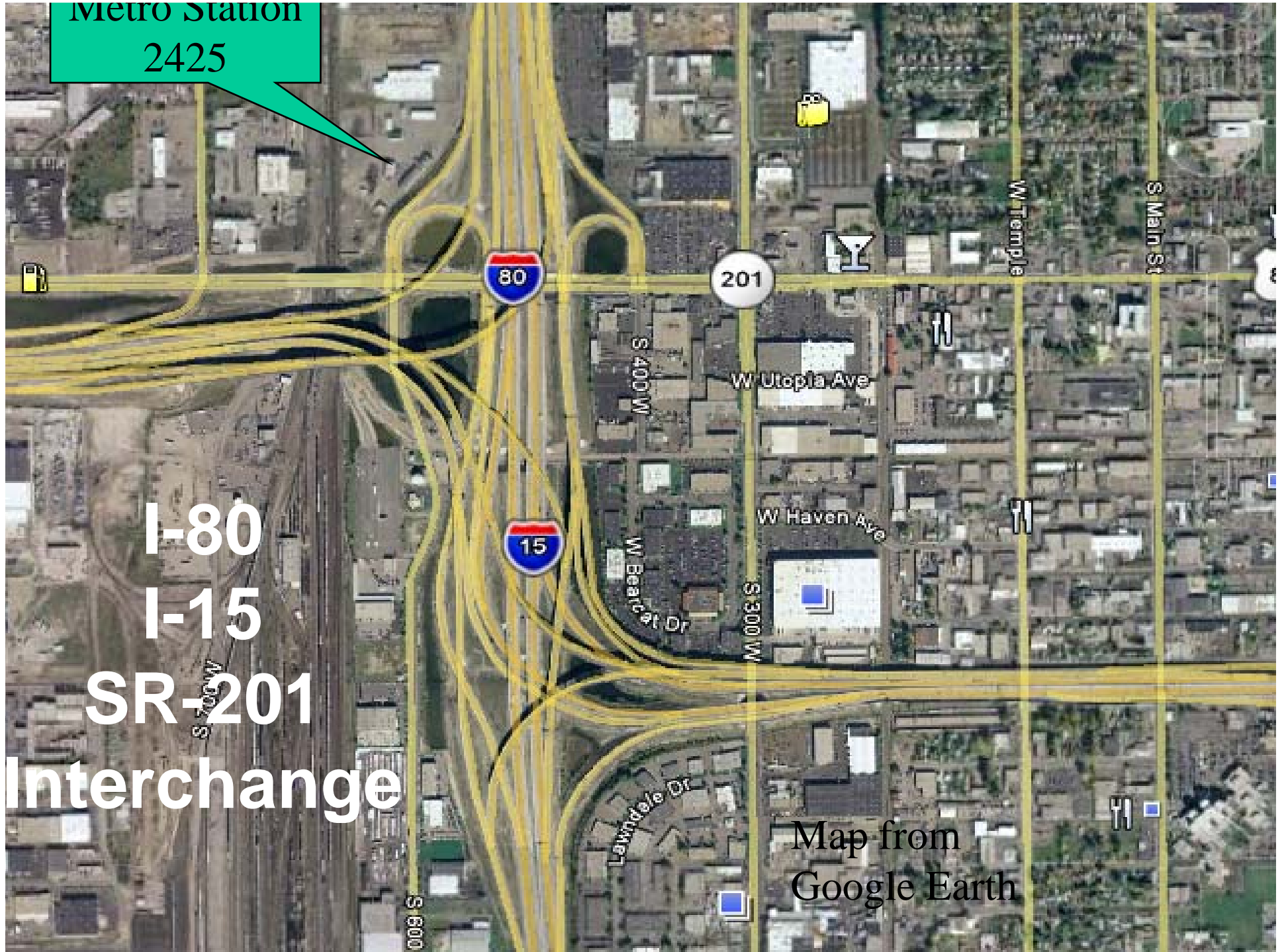
Salt Lake City Metro Area



Metro Station
2425

I-80
I-15
SR-201
Interchange

Map from
Google Earth



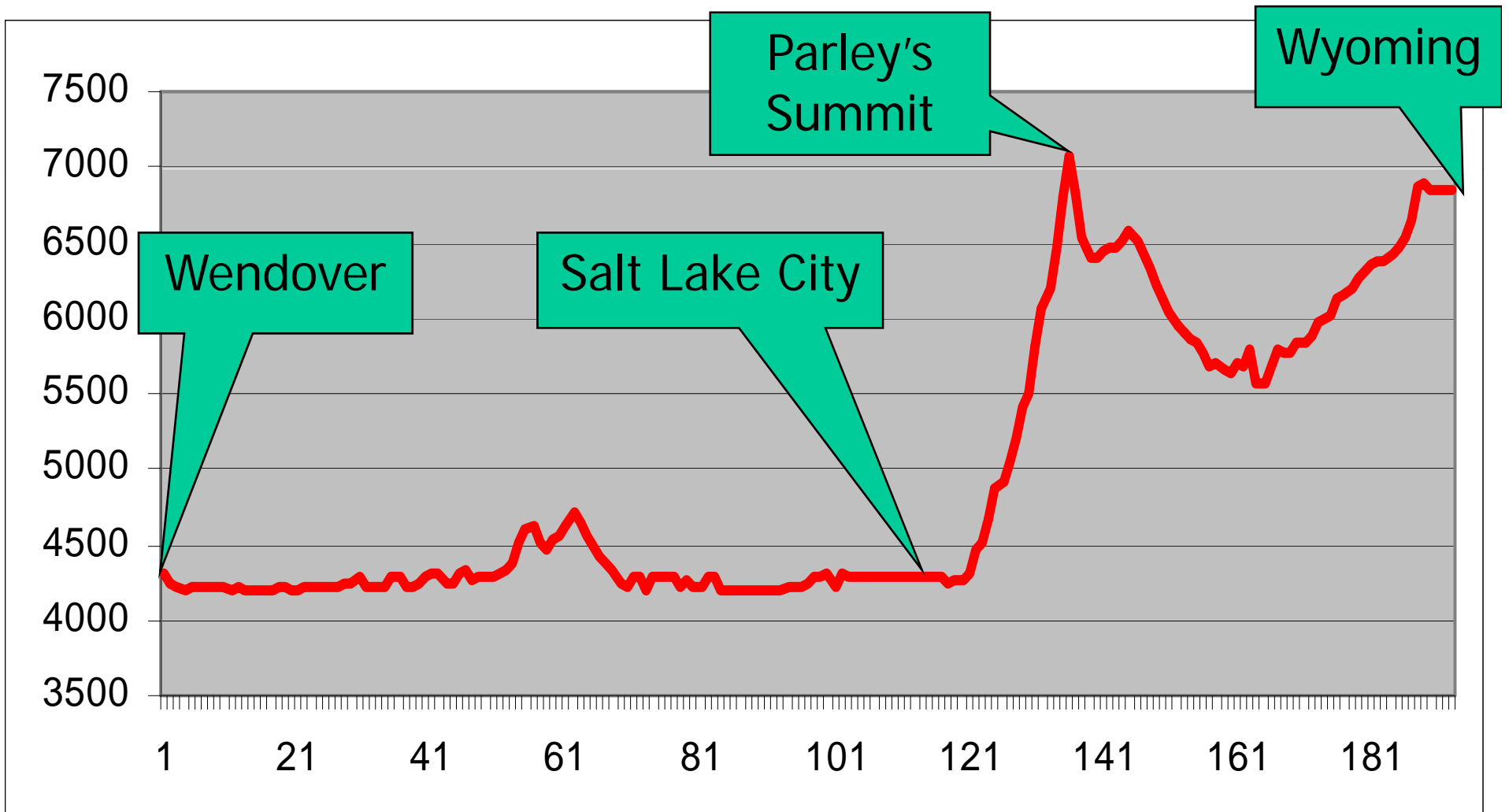
I-80 Parley's Canyon



I-80 Echo Canyon



Profile



TRAFFIC (2008 Data)

Location	AADT	Combo Trucks
Salt Flats	7850	44%
Salt Lake Valley – West of I-15	56500	16%
Salt Lake Valley – East of I-15	97620	5%
Parley's Canyon	44990	20%
Echo Canyon	13600	43%

UDOT Winter Strategy –

- Interstates get top priority
- Second - high volume arterials
- Lastly – other roads

UDOT Snowfighting Goal

- Pavement rated B+ One hour after the storm

B+ means

- All Travel Lanes Open
- Wet Pavement
- Some slush less than 2" deep

Region 2 Strategy

Aggressive weather
monitoring and forecasting

Proactive pretreatment

Anti-ice then switch to solids

Prevent snow pack

Continue to treat and plow



Nine maintenance stations serve I-80



Grantsville





Equipment

Plow trucks with spreaders

Plow Trucks with all-liquid systems

Plow trucks with hybrid systems

2 - Snow blowers within 30 minutes
travel time

Basic
Snowfighting
Vehicle





All-Liquid Plow Unit



Tag Axle Plow with Wing

Fleet Reduction Due to Increased Efficiencies









Tow-Plow











30 5:28 P

Manpower & Equipment

Everyone on the snow plan attends
annual Snow School in the fall

Trans.Tech program supplements
regular maintenance employees

Seasonal employees









Winter Materials

Solar salt from Great Salt Lake

Rock salt (ICE Slicer)

Salt Brine

Deslicking grit

Application Rates

Salt – 250 lb/lane-mile (1/8 cy/lane-mile)
pre-wet with brine at 6 gallons/lane
mile

Brine – 15 gallon/lane-mile standard rate
– 40 gallon/lane-mile heavy frost or
below 25 degrees

Spreader Calibration

Every spreader is calibrated in the fall
and after hydraulic system repairs

We use ground speed controllers

Organization

Three maintenance areas –
East, West, & Metro

Each area manages it's own dispatch
and work assignments – No central
dispatch

TOC & UHP advise supervisors of
trouble spots

Questions

