

CITIZEN REPORTING

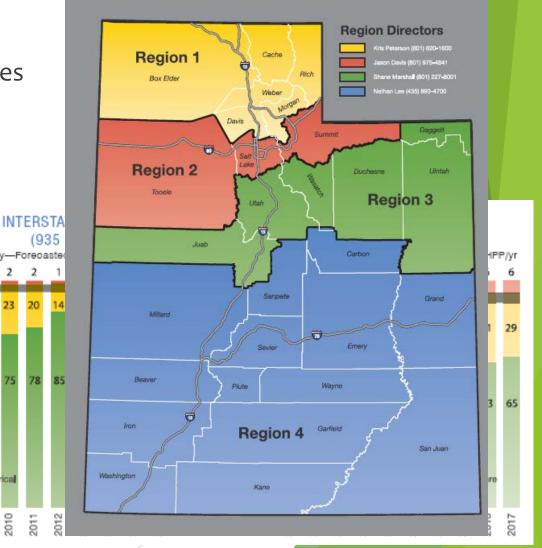
A UDOT Program

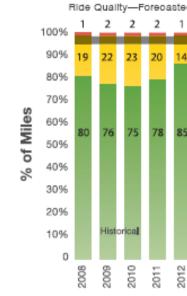


UDOT Strategic Direction

- Preserve Infrastructure
- Optimize Mobility
- Zero Fatalities, Crashes, Injuries

UDOT REGIONS











	Hisorical Snowfall Statistics for ski resorts				
	Name of Resort	Country	annual snowfall in inches (in)	annual snowfall in meters (m)	
2	Mt Baker Washington	USA	641	16.3	
	Mt Rainer Washington	USA	624	15.85	
2	Alyeska	USA Alaska	600	15.24	
esorts That Get The Most Snow In The World	Alta Utah	USA	520	13.2	
	Snowbird Utah	USA	500	12.7	
~	Solitude Utah	USA	500	12.7	
	Jackson Hole Wyoming	USA	500	12.7	
_	Kirkwood Mt	USA	473	12.0	
2	Rasutsu	Japan	472	12.0	
Ξ	Stevens Pass Washington	USA	471	11.96	
3	Sugar Bowl California	USA	464	11.78	
0	Grand Targhee Wyoming	USA	463	11.76	
	Squaw Valley	USA	450	11.43	
S	Niseko	Japan	433	11	
	Nagano	Japan	433	11	
S	Hirafu	Japan	433	11	
<u> </u>	Mt Hood Meadows Oregon	USA	430	10.9	
$\mathbf{\Sigma}$	WhistlerBlackcombe	Canada	407	10.3	
	Banff	Canada	400	10.1	
e	Big Sky	USA	400	10.1	
	Powder Mt Utah	USA .	400	10.1	
-	Whitewater BC	Canada	397	10.1	
ř	Boreal	USA	395	10.0	
.e	Crystal Creek Washington	USA	390	9.9	
U	Mt Washington BC	Canada	383	9.7	
+	Brighton Resort Utah	USA	381	9.67	
g	Wolf Creek Colorado	USA	379	9.62	
<u>_</u>	Chamonix	France	377	9.6	
Sorts T iks July 29, 2013	Winter Park	USA	369	9.4	
S S	Mammoth Calif	USA	367	9.32	
23 T	Steamboat	USA	363	9.2	
ō	Fernie BC	Canada USA	360	9.1	
ວັ 🔓	Heavenly	USA	360	9.1	
<u>ة</u> ن	Canyons Dark City Utab		355	9.0	
	Park City Utah Jay Peak Vermont	USA USA	350 350	8.9 8.9	
	Mt Bachelor	USA	350	8.9	
X 🚪	Vail Col	USA	346	8.8	
22 Ski	Furano	Japan	315	8.0	
	Valle Nevado	Chile	311	7.9	
	Aspen	USA	300	7.6	
	Portillo	Chile	295	7.5	

Rare On-The-Job Death For Avalanche Forecaster In Utah

APRIL 12, 2013 7:05 PM ET

HOWARD BERKES

Dale Atkins has been tracking hundreds of avalanche deaths for years but the fatality report that arrived from Utah Friday morning was especially shocking.

"It's way too close to home," says Atkins, the Colorado-based president of the American Avalanche Association. "It's mind numbing...it's a slashing chill."

That's because the sixteenth avalanche victim in the United States this winter is Craig Patterson, 34, a seven-year veteran of avalanche forecasting for the Utah Department of Transportation. Investigators were still assessing the incident Friday but it appears Patterson was gauging snow conditions alone Thursday on a mountain slope known as Kessler Slabs above the Big Cottonwood Canyon highway outside Salt Lake City.

Colleagues concerned about his failure to return to his office called authorities and his body was spotted from a helicopter late Thursday. "A search found his body on the surface of the [avalanche] debris," reports Evelyn Lees of the Utah Avalanche Center.



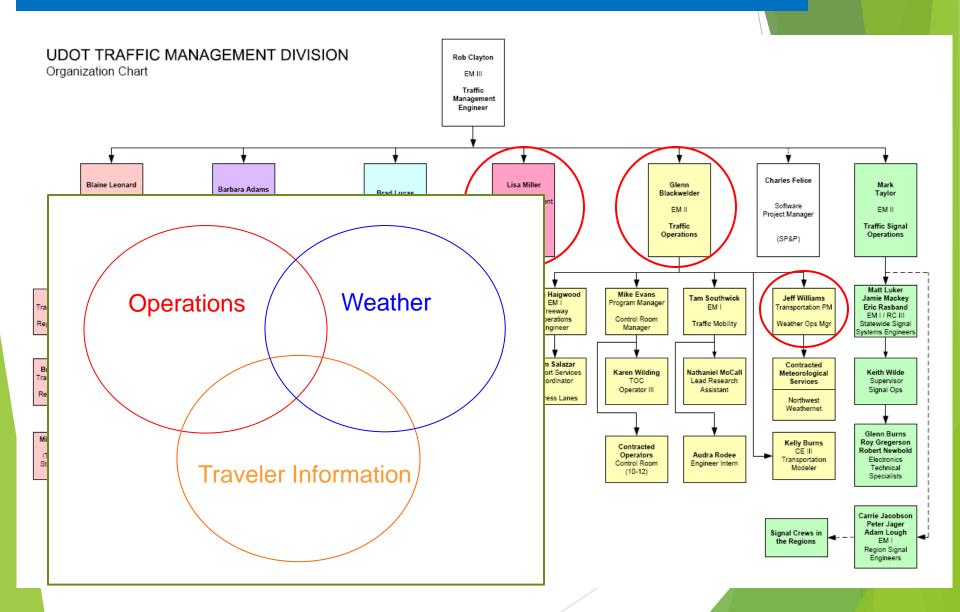
Craig Patterson, 34, a seven-year veteran of avalanche forecasting for the Utah Department of Transportation. Utah Department of Transportation



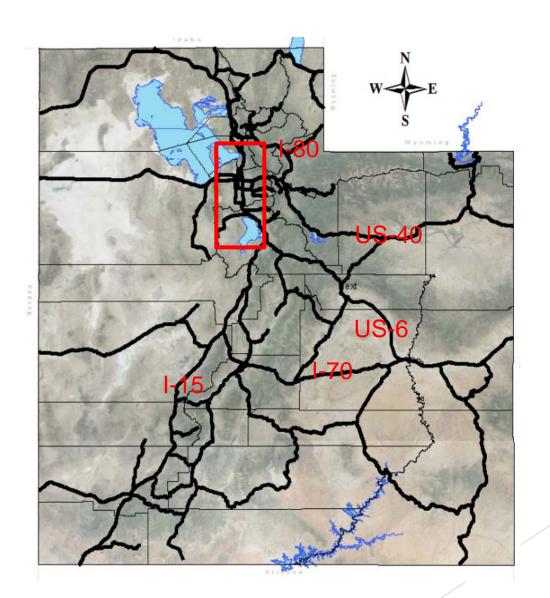


The highway carries thousands of skiers, ski industry workers and mountain homeowners and the steep slopes above it are prone to avalanches. Some reach the highway, which is sometimes closed after major snowstorms while highway workers literally bomb the slopes to release newly-fallen snow.

UDOT Traffic Management Division



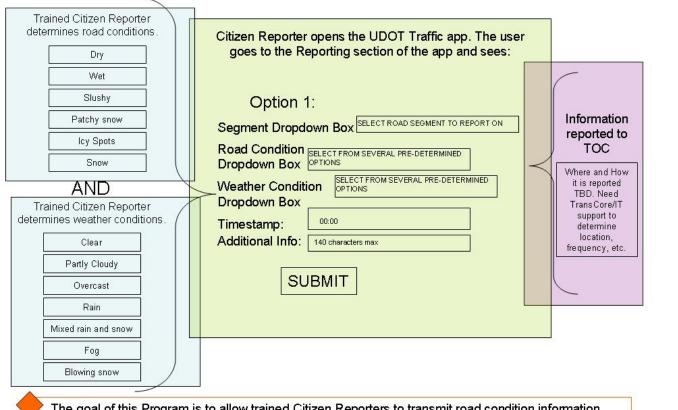
TATS Segments





The Citizen Reporter Program

UDOT Citizen Reporting Program Communications Diagram



The goal of this Program is to allow trained Citizen Reporters to transmit road condition information (and possibly other information) to the UDOT TOC for inclusion into the TATS road reporting system.

(((ecar)))

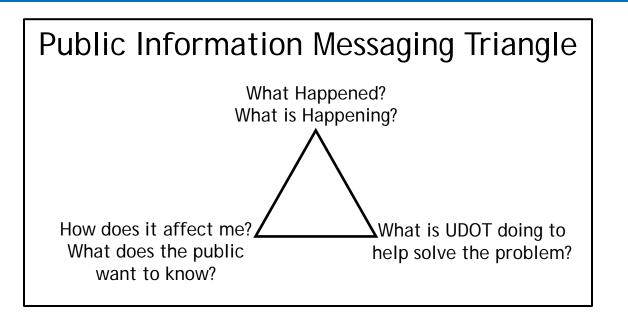
nhanced Citizen-Assisted Reporting

Program Goals

- To provide consistent, reliable, accurate and timely information concerning roadway conditions to the traveling public.
- The Utah Citizen Reporter Program allows trained members of the public to report road and weather conditions on any of our over 140 segments that we collect data on.
- During the winter months (November April) UDOT will be using road condition and weather reports to supplement other reporting. This information will be used on the UDOT Traffic website, 511 phone system and UDOT Traffic app.
- This project is NOT for dispatching plow operators.
- This project IS for trained volunteers to assist UDOT by providing timely and accurate information based on their observations.



Pilot Year







Source: WRTM CITE Course

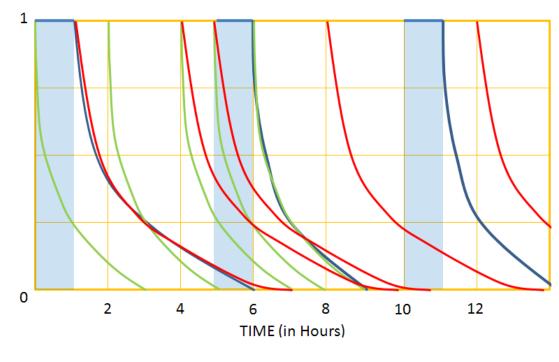
Logic

TI Mets (Reports valid for 6 hours have an exponential decrease to 0% and report expires. TI Met reports are never more valuable than a TATS report if they are reported at the same time.)

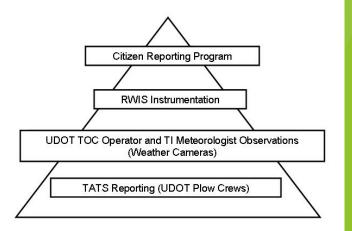
TATS (Reports valid for 1 hour then an exponential decrease to 6 hours when the report expires. TATS report have priority for 1 hour after reporting and are not overwritten by any other type of reporter)

Citizen Reporters (Reports valid for 3 hours and have an exponential decrease to 0% and report expires.)

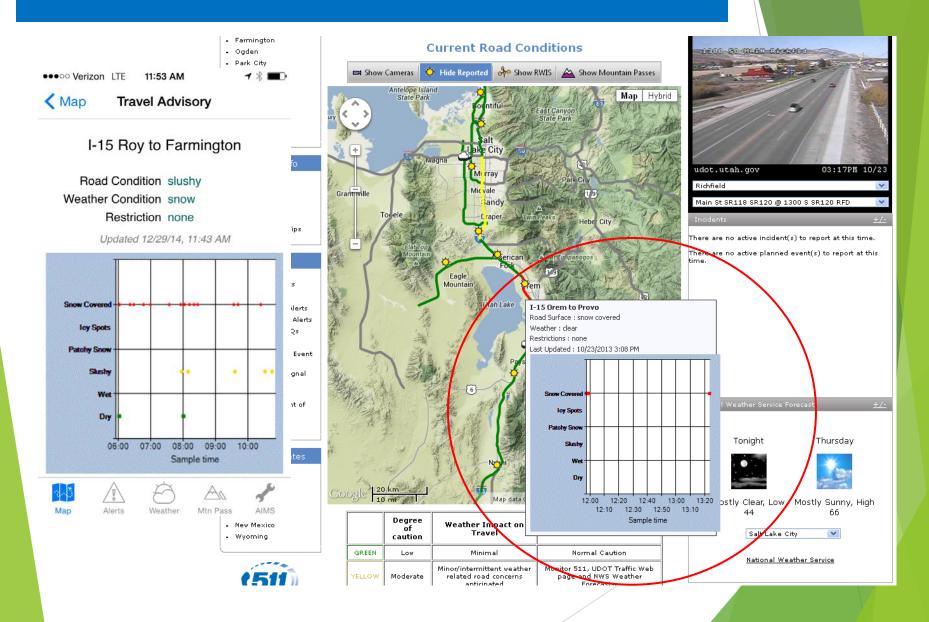
Color that appears "on top" is the report that is used for the RYG (not including priority TATS report for 1 hour)

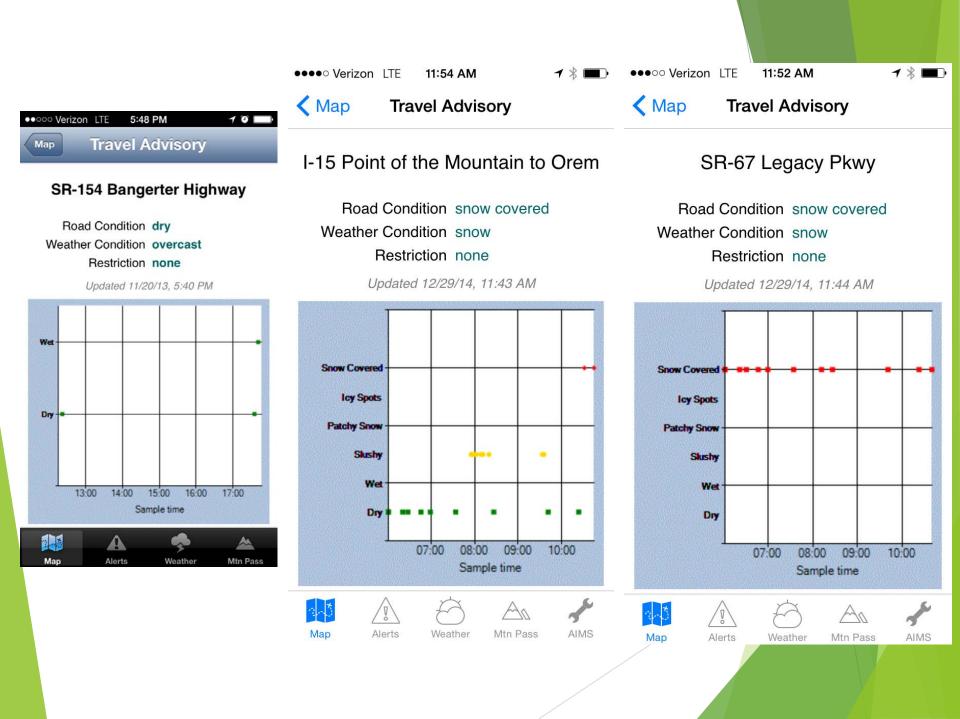


UDOT Weather Operations Program Data Input Sources



Public Facing Information





Training Program

- Introduction and Thank You
- Wyoming ECAR Program
- Reporter Selection Process/Criteria
- Program Goals
- Types of Road Users in Utah
- Safety!
- Type of Information to Report
- Definitions of Road Conditions
- Definitions of Weather Conditions
- UDOT Winter Operations information
- Driving Safe around Plows
- The Citizen Reporting app







commuterlink.utah.gov 08:40AM 01/16

The Reporting App

•০০০০ Verizon 穼 🛛 🕄	3:07 PM 🛛 🕉 💻		
UDOT Ci	tizen Report 🛛 🌞		
Where and Wher	1		
SR-201 Sal	SR-201 Salt Air to Salt Lake		
Report Time	10/16/13, 1:25 PM		
Conditions			
Road	Dry		
Weather	Partly Cloudy		
Comments			
(Tap to enter additional info)			

Submit

ంం Verizon 穼 3:07 PM	A Õ ∦ ■ +	•০০০০ Verizon হি	3:08 PM	O 🖇 💼 +
Cancel Select Seg	gment	Done	Examples	
SR-20 I-15 to Top of Bea SR-201 Salt Air to Salt L Last report: 10/16/13, 1:2	ake 🧳	The following	ad Conditio images presen oad conditions.	t examples of
SR-210 Lower Little Cot	tonwood Canyon		Dry	
SR-210 Upper Little Cot	tonwood Canyon	-		
SR-224 Kimball Jct to Pa	ark City	Section 2		3
SR-224 Park City to On		os pm o s izen Report	*	
SR-226 to Snowbasin	Where and When			
SR-24 Hanksville to I-7	SR-201 Salt	Air to Salt Lake		,
SR-24 Loa to Hanksvill	Report Time	10/16/13, 1:25 F	PM Vet	
SR-24 Richfield to Loa	Conditions		ver	
SR-248 Quinns Jct to K	Road	Slus	shy	
	Weather	Partly Clou	ıdy	
	Comments			
	Submit report for SR-201 Salt Air to Salt Lake? Road: Slushy Weather: Partly Cloudy Submit			
	Ca	incel		

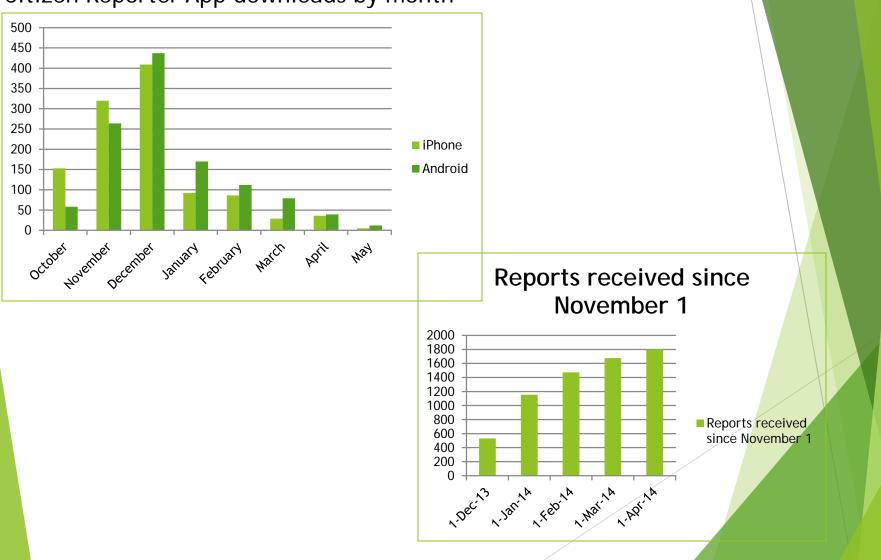
●०००० Verizon 🤶	3:08 PM	T 🖇 🛄 +
Cancel Wea	ther Conditi	on
Clear		
Partly Clo	udy	~
Overcast		
Rain		
Mixed Rai	in And Snow	ı
Snow		
Fog		
Blowing S	now	
	Examples	

Statistics

- Pilot Program launched winter 2012-2013
 - 100 UDOT employee reporters
- Program launched to the public winter 2013-2014
 - End of season, 475 reporters
 - 135 of 145 routes covered by at least 1 reporter
 - 0.03% of reports submitted were determined to be inaccurate
 - Over 1800 reports submitted
- 2014 2015 Statistics
 - End of season, 600 reporters
 - 142 of 145 routes covered by at least 1 reporter
 - 0.04% of reports submitted were determined to be inaccurate
 - Over 3200 reports submitted

Statistics

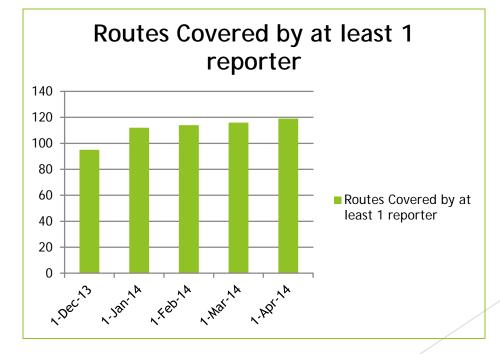
Citizen Reporter App downloads by month



Statistics

Citizen Reporter Inaccurate Report Percentages

Month	Reports received since November 1	Flagged as inaccurate	% inaccurate
Apr-14	1802	32	1.78%
Mar-14	1677	9	0.54%
Feb-14	1473	9	0.61%
Jan-14	1154	5	0.43%
Dec-13	531	2	0.38%



FAQ

- Are you going to expand the program to allow reporters to submit other data?
- How do you encourage reporters to not use the app while driving?
- Are you concerned about unfiltered data going to the public?

To Become a UDOT Citizen Reporter

- Take the online training: www.udottraffic.utah.gov/training/citizenreporter
- Download the free reporting app from your app store (Search for "UDOT Citizen Report")



A UDOT Program



Questions?



Keeping Utah Moving

Lisa Miller Utah Department of Transportation Traveler Information Manager

lisamiller@utah.gov

(801) 887-3761

