

Snow Depth and Traffic Monitoring

Pinedale Anticline
And Surrounding Areas



Presented:
26 October 2011

Background



Snow Monitoring Routes and Traffic Monitoring Area



Snow Monitoring

- Simple 5-foot tall PVC pipe
- Markings can be easily viewed thru binoculars or spotting scope from nearby access roads



Snow Depth Monitoring

- Installed in early December 2010 to monitor snow depth accumulations at 55 PAPO-approved locations within the PAPA and reference areas.
- Installed to include representations from the following aspects: North, South, East, West, Ridge, and Drainage.
- Significant weather events and snow depth differences between visits were also recorded for each station.
- Stations monitored every 2 weeks from December 2010 through April 2011 (or until snow melt).

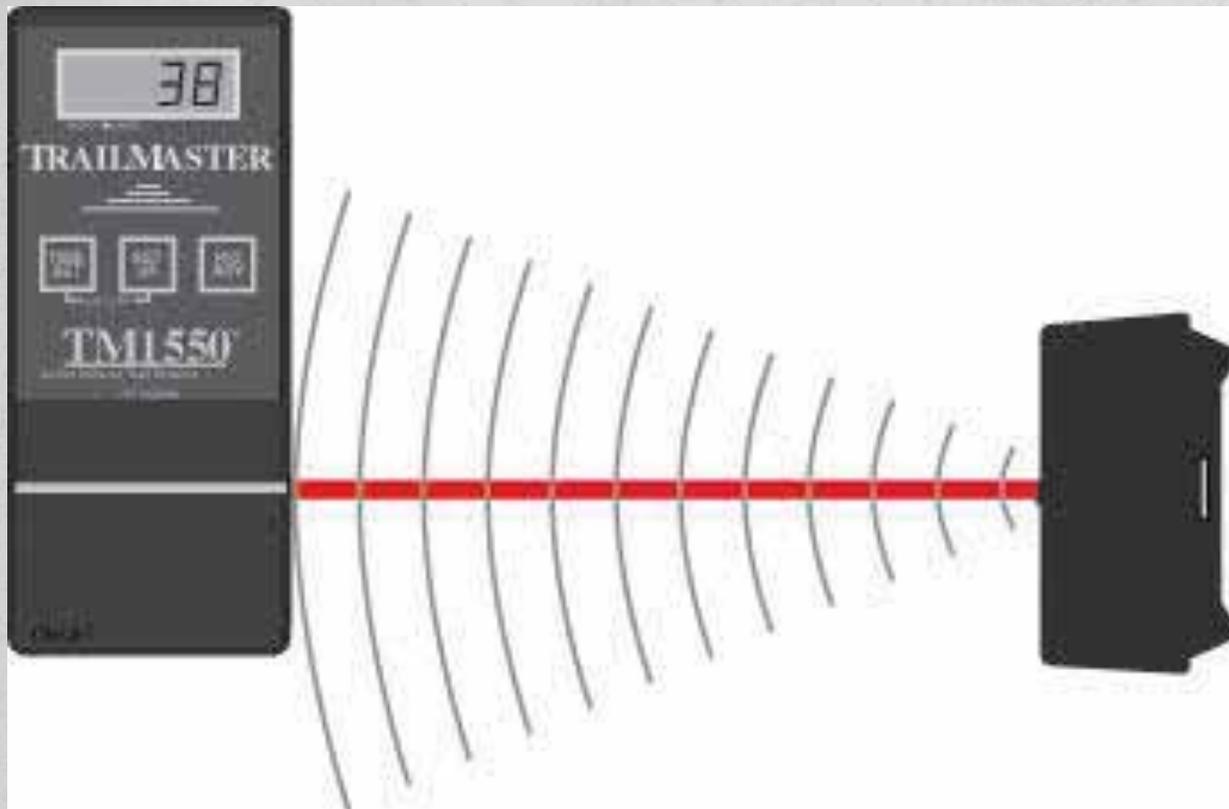
Snow Depth 2009/2010 Summary

Route	December	January	February	March	April	May
Boulder	2.18	3.00	4.69	1.05	0.30	nul
Cottonwood Ryegrass	1.40	4.23	6.53	2.40	0.90	0.00
Mesa Rd -Industrial Rd	3.04	3.94	5.46	0.34	0.34	0.00
Greenriver Rd	1.67	4.20	4.76	0.60	0.00	0.00
Hwy 189	1.28	4.24	6.45	0.90	0.00	nul
Hwy 191	3.06	4.20	6.73	0.78	1.02	0.00
Hwy 351	1.45	4.18	4.95	0.65	0.35	0.00
Middle Crest Rd	2.58	4.23	6.30	0.36	1.16	nul
Paradise Rd	1.97	3.25	4.75	0.00	0.40	0.00
Speedway	2.93	4.35	6.86	0.30	0.30	nul
Meadow Cyn Rd	2.85	4.73	6.41	1.80	0.25	nul

Snow Depth 2010/2011 Summary

	December	January	February	March	April	May
Boulder	6.56	10.65	12.04	15.65	2.85	0.00
Cottonwood Ryegrass	6.00	9.03	9.08	11.38	0.18	nul
Mesa Rd -Industrial Rd	6.13	7.96	11.12	13.97	3.92	0.00
East Green River Rd	5.01	7.62	7.92	10.40	0.00	nul
Hwy 189	5.85	9.75	10.24	14.23	0.00	nul
Hwy 191	8.49	11.36	13.01	16.74	2.40	0.00
Hwy 351	6.53	7.25	6.87	9.13	0.10	nul
Middle Crest Rd	5.94	10.40	14.10	18.12	0.00	nul
Paradise Rd	5.60	7.60	8.40	10.93	0.20	nul
Speedway	4.43	8.74	8.70	10.68	0.00	nul
Meadow Canyon Rd	5.74	9.71	9.34	12.70	0.00	nul

Traffic Monitoring



- Uses an invisible active infrared light beam
- Can be easily set for specific game/traffic
- Each time a vehicle passes through the infrared beam, the event is recorded
- Records date and time to the minute of each event
- Can store over 1000 events
- Non-Volatile memory
- Password protected

Traffic Monitoring



- Weather-proof (Temp. range: -40°F to 130°F)
- Operates 8 months to a 1 year on C-cell batteries.
- Can collect event information which will show patterns of traffic movement and prevent drawing incorrect conclusions based on a small number of events.

Traffic Monitoring

- Installed in early December 2010 to monitor traffic at 60 PAPO-selected locations within the PAPA.
- Remained active until May 2011 to monitor human activity levels throughout the field.
- Data downloaded every 7-10 days.
- Data examined frequently for QA/QC (sensor data was compared to visual occurrences to check for hit accuracy).



Traffic RAW DATA Comparisons

2009-2010

2010-2011

Stewart Point Total ≈	524	838
DA 1 Total ≈	2,056	1,321
DA 2 Total ≈	4,746	2,093
DA 3 Total ≈	1,581	1,442
DA 4 Total ≈	5,319	7,170
DA 5 Total ≈	1,330	916



Any Questions?

