Multi - Use RWIS Sites

Targeted Approaches for Transportation Data

Jack Stickel
Alaska Department of Transportation & Public Facilities
Transportation Data Services
Russian River
Road Weather
Information System
Sterling Highway @ 54.8
Alaska Road Weather Information System (RWIS)  
Anchorage - Homer

Select one of the following Site Types:

- RWIS
- Camera
- TDP

Select the site indicated by a ♦ for Weather Information.
Transportation & Public Facilities
Road Weather Information System

The Road Weather Information System (RWIS) is a network of meteorological and pavement sensors located along the highway system. RWIS stations are deployed in strategic locations to provide accurate real-time road weather information and critical observations for forecasts. This and other weather information helps the Alaska Department of Transportation & Public Facilities improve the delivery of maintenance actions, like when to show plow routes and defer anti-icing treatments on the highways. For more information, see About RWIS.

We welcome your comments and technical questions regarding Alaska’s RWIS.

Alaska’s Road Weather Information System is part of Iways, Alaska’s Intelligent Transportation System Program.

Disclaimer

Help us design an Alaska - Canada Highway Road Weather Portal for traveler information and safety by taking a user needs survey.

Alaska-Canada Hwy Road Weather Portal

Take the Survey!
Alaska's Road Weather Information System

RWIS - Camera - TDP Area & Corridor Maps

Place your mouse over the name of an area map or a corridor map to highlight. Click the name of the area or corridor map to go to the selection page for that area or corridor.

Area Maps
Greater Anchorage Area
Greater Fairbanks Area
Greater Juneau Area
Kodiak Island

Corridor Maps
Anchorage - Delta Jet - Tok - Valdez
Anchorage - Fairbanks
Anchorage - Homer
Fairbanks - US/Canada Border
Fairbanks - Prudhoe Bay
Southeast Alaska
Alaska's Road Weather Information System

Sterling Highway @ Jean Lake Hill MP 62.3

Camera: Sterling Hwy EB

Time: 01/19/2008 9:05 AM

Road Weather
- RWIS Home
- RWIS - Camera - TDP
- About RWIS
- About TDP
- RWIS Glossary
- RWIS Website FAQs
- Alaska Weather Links
- Contact RWIS Manager
- RWIS Area Summary
- Camera Area Overview

511 Alaska.gov Travel in the Know

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Multi – Use RWIS Sites
DOT Operations

• Road Weather Information Systems-:
  http://roadweather.alaska.gov/
  – Winter weather maintenance & operations
  – Nighttime camera operations
  – Traveler information
  – Seasonal weight restrictions
  – Avalanche control
  – Flood advance warning
  – Traffic data program
Multi – Use RWIS Sites

Winter Weather Operations

- Remote locations
- Limited reports from any sources
- Installation of an at-altitude remote sensing station
Multi – Use RWIS Sites
SAFETEA-LU Section 1201

Establish a Real-Time System Management Information Program to:

• make traffic and travel conditions information available to the traveling public and
• ease the sharing of traffic and travel conditions information among public agencies and private enterprises
Multi – Use RWIS Sites
Seasonal Weight Restrictions

• Six foot thermistor plus in pavement pigtail
• Pseudo real-time data availability – daily load to Oracle
• Just one key element in the decision process
Seasonal Weight Restriction Analysis Process

Review available information

Regional Maintenance Engineer

National Weather Service Forecasts

Temperature Probe Profiles

Soil and Roadbed Profiles

Visual Inspection of Roadway

Issue weight restrictions by road or area
# 31 Day Temperature Profile – Tudor Road WIM

## Temperature Data Probe Site

TDP Station: TDP - Tudor Road WIM  
Location: CDS Route at Milepoint  
Daily Averages for 31 Days Beginning 03/18/2007

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</table>

**Indicates less than 24 hours of observations**

## Temperature Scale °F

- **Below 16:** to to to to to to to to to to to to  
- **16 to 20:** to to to to to to to to to to to  
- **20 to 24:** to to to to to to to to to to  
- **24 to 28:** to to to to to to to to to  
- **28 to 32:** to to to to to to to  
- **32 to 36:** to to to to to  
- **36 to 40:** to to to to  
- **40 to 44:** to to to  
- **44 to 48:** to to  
- **48 to 52:** to  
- **52 to 56:**  
- **56 to 60:**  
- **60 & Above:**  

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31 Day Temperature Profile – Peger Road

Temperature Data Probe Site

TDP Station: PEG - Peger Road @ DOT M&O Office Bldg
Location: CDS Route at Milepoint
Six Hour Averages for 7 Days Beginning 04/03/2007


Air

8" 12" 18" 24" 30" 36" 42" 48" 54" 60" 66" 72"

Indicates less than 6 hours of observations

Temperature Scale °F

B E L O W

16 20 24 28 32 36 40 44 48 52 56 60

& A B O V E

<20 <24 <28 <32 <36 <40 <44 <48 <52 <56 <50

View Details
Multi – Use RWIS Sites
Roadway Safety

Avalanche and Flood Alerts

• Significance
  – Single transportation corridors
  – Localized due to topography
  – Targeted to both value-added forecast providers and transportation agencies

• Input parameters
  – Snowpack (roadway and at altitude), snowpack melt, and runoff protocols
  – Rainfall rates
  – Weather forecasts
Multi – Use RWIS Sites
Flooding

- Install improved, cost-effective precipitation sensors
- Expand network of water level sensors
- Increase network of precipitation sensors
- Integrate with existing bridge scour program
Multi – Use RWIS Sites
Avalanche Potential

- Deploy an environmental sensor station (ESS) at altitude on Mt Billy Mitchell on Richardson Highway

- Successful deployment at other locations in Alaska

- Will be a prototype for other deployments
Stuart Creek
Road Weather
Information System
Richardson Highway
@ MP 45.7
**RWIS Site Summary**

**Seward Highway @ Turnagain Pass MP 69.9**

For definitions, click on the name field.

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<th>Date / Time</th>
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<td>Dew Point</td>
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<tr>
<td>Relative Humidity</td>
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<td>Precipitation Occurrence</td>
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<td>Wind Speed</td>
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<tr>
<td>Wind Direction</td>
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<td>Wind Speed Maximum</td>
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<td>Wind Direction of Maximum Speed</td>
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<td>Subsurface Temp.</td>
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Multi – Use RWIS Sites Traffic Data

- Non-obtrusive traffic sensor integration
- Prototype Wavetronix deployed in Juneau – evaluating
  - Data flows through RWIS RPU
  - Data binned in two minute increments
- AURORA RWIS Pooled Fund project to provide per vehicle records
- Member Length Based Classification pooled fund
Multi – Use RWIS Sites
Traffic Data

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<th>Long/Vol</th>
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<td>-</td>
<td>43 mph</td>
</tr>
<tr>
<td>08/02/2000 13:51</td>
<td>58 mph</td>
<td>14</td>
<td>3%</td>
<td>5</td>
<td>-</td>
<td>53 mph</td>
</tr>
<tr>
<td>08/02/2000 13:49</td>
<td>56 mph</td>
<td>20</td>
<td>4%</td>
<td>3</td>
<td>-</td>
<td>53 mph</td>
</tr>
<tr>
<td>08/02/2000 13:47</td>
<td>56 mph</td>
<td>15</td>
<td>3%</td>
<td>5</td>
<td>-</td>
<td>53 mph</td>
</tr>
<tr>
<td>08/02/2000 13:45</td>
<td>55 mph</td>
<td>20</td>
<td>5%</td>
<td>5</td>
<td>-</td>
<td>53 mph</td>
</tr>
</tbody>
</table>
Multi – Use RWIS Sites Partnerships

- Alaska Dept of Fish & Game – salmon census communication
- Alaska Railroad – avalanche and snowfall information
- **Commercial Vehicle Operations** – RFID freight tracking
- **Federal Aviation Administration** – FAA weather cam program
- National Weather Service
  - Flood forecasting
  - Watches, warnings, & advisories
  - Haines & Klondike Highway pass forecasts
- **Petersburg Search & Rescue & Petersburg/Wrangell Resource Advisory Committee (RAC) Ferry Operations**
- United States Military – aviation and surface transportation
- University Alaska Fairbanks – arctic forecasting center
- US Dept of Commerce – NRCS Snow, Water, and Climates Services
- US Dept of Interior – USGS Water Resources
Multi – Use RWIS Sites RFID Freight Tracking

- Partnered with Horizon Lines to provide power and installation platform. Potential down the road to offer weather back to driver.
- Provides an integrated tracking solution from Port of Anchorage to destination at selected check points.
- “Horizon Lines Active RFID Container Tracking Program: An Ocean-Container Shipping Industry First” – Eliseo Barrera (Session B2)
Multi – Use RWIS Sites

FAA Weather Cams

• Supplements the FAA weather cam program

http://akweathercams.faa.gov/

• Key to small aircraft operations in rural mountain passes & high terrain
Multi – Use RWIS Sites
Petersburg – Wrangell Ferry Operations

- Safety of small passenger marine vessel transport between Petersburg & Wrangell
- Strong local support from communities and Resource Advisory Committee
Multi – Use RWIS Sites

Petersburg – Wrangell Ferry Operations
Multi – Use RWIS Sites
Petersburg – Wrangell Ferry Operations
RWIS - Where Do We Go

• Additional / improved snow & precipitation sensors
• Real-time quality checking – *Clarus* Initiative
  • [http://www.clarus-system.com](http://www.clarus-system.com)
• Nighttime roadway images using infrared illuminators & next generation cameras
• Traffic data - per vehicle records using non-obtrusive traffic speed and traffic sensors integrated into RWIS
• Additional RWIS sites based on Department & State of Alaska needs, e.g, Alaska – Canada gas pipeline
Ingest Clarus System subscription output into two Aurora RWIS Pooled Fund projects:

- RWIS Equipment Monitoring System – site status, maintenance action, & notification
- RWIS Quality Assurance Monitoring System – site & sensor performance metrics Health of the Network reports
RWIS - Where Do We Go

– Integrate RWIS & traffic data:
  • Programs
    – 511 Travel in the Know – http://511.alaska.gov
    – ITS implementation plans for Glenn & Seward Highways
    – State of Alaska Highway Safety Corridors
      » Parks Highway
      » Glenn Highway
      » Future nominations
    – Speed enforcement with law enforcement agencies
  • Anticipated benefits
    – Traveler safety, e.g., informed decisions
    – Transportation system efficiency, e.g., personnel & funds
    – Traveler & DOT information, e.g., congestion
Inquiries

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