

RWIS Summary

roadweather.alaska.gov

70 sites located on connected highway system:

- 63 Full RWIS sites
- 4 data only
- Some camera only
 - Not all are DOT cameras
- RWIS on 511.Alaska.gov and the mobile apps (only sites <u>with</u> a camera)





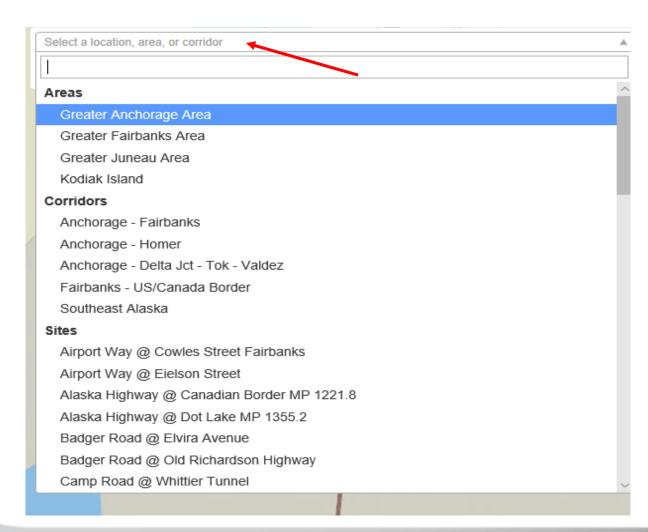
Available Data

Data Types Available (not all sites have all data types):

- Atmospheric Temperature
- Dew Point
- Relative Humidity
- Wind Speed, Direction, Max Speed
- Snow Depth
- Precipitation
 - Occurrence, Accumulation, Intensity, and type of precipitation
 - Depends on the site and the sensor installed
- Barometric Pressure
- Pavement Temp (surface, subsurface and 6ft TDP)
- Surface Friction and Grip (@ Select sites for our M&O Personnel only)
- Camera Images

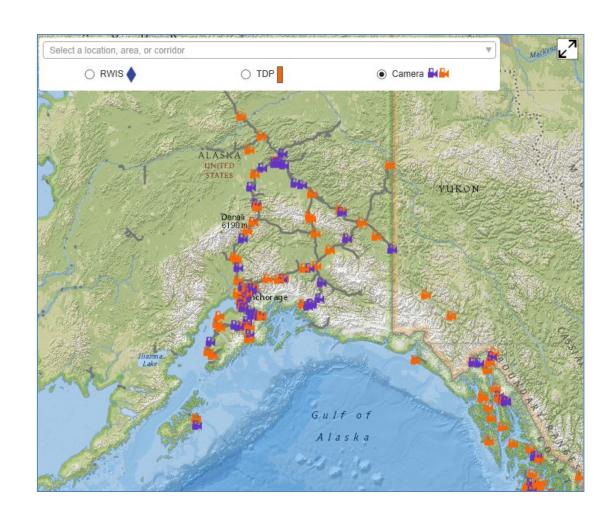


Select by Area, Corridor, or Site:



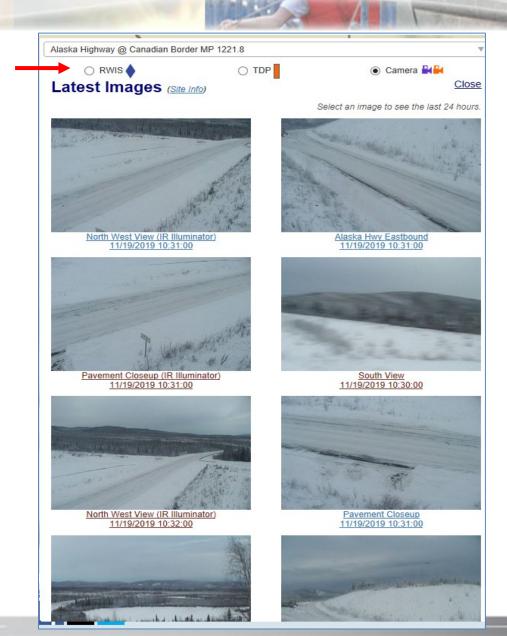


- No more static maps
- New GIS Interface using Leaflet
- Responsive Design
- Radio buttons for toggling between RWIS, TDP, and Cameras





On each site, toggle between RWIS, TDP (if installed) or Camera buttons at the top.





RWIS Site Summaries

Clicking "Site Info"

Will open up this page



RWIS Site Information

Alaska Highway @ Canadian Border MP 1221.8

Site Information	
Site ID	37
Organization	ADOT&PF
ESS Vendor	Vaisala
Latitude (degrees)	62.621359
Longitude (degrees)	-141.010619
Altitude (meters)	589
Route IDs	1160000X000
Milepoint	0.445
Borough	non-borough area
Census Area	Southeast Fairbanks
NWS Forecast Office Public Forecast Zone	Fairbanks / 224 Northway
NWS Site Identifier	ALCA2



Site Description

Site Location

The Alaska Highway @ Canadian Border RWIS ESS is located just to the west of the US Customs on the right side of the westbound lane. The ESS pole sits on a ridge just about even with the Customs Complex; the ESS is exposed to wind and weather from all directions. A tipping bucket precipitation gauge provides rainfall amounts during the summer and fall shower season. There is a fixed camera that provides a multiple road views to the east. Some reflective light from the Custom's complex provides a few nighttime images. There is also an infrared illuminator at this site. The Northway DOT Maintenance Station, approximately 35 miles to the west, is responsible for the eastern portion of the Alaska Highway border area.

The Alaska Highway is a major road entry portal into Alaska. Except for Northway, there is extremely limited weather information from the border to Tok. In addition to the extreme cold, this area is subject to winds and blowing snow. Having a road weather resource is essential for traveler safety and for allocating resources to maintain the roadway.

Road Weather

- » RWIS Home
- » myRWIS
- » About RWIS
- » About TDP
- » RWIS Glossary
- » RWIS Website FAQs
- » Alaska Weather Links
- » Contact RWIS Manager
- » RWIS Site Data
- » RWIS Site MetaData
- » Site Information
- » Measured Variables
- » Site Photos
- » Site Diagram

» 511 - Traveler Information @

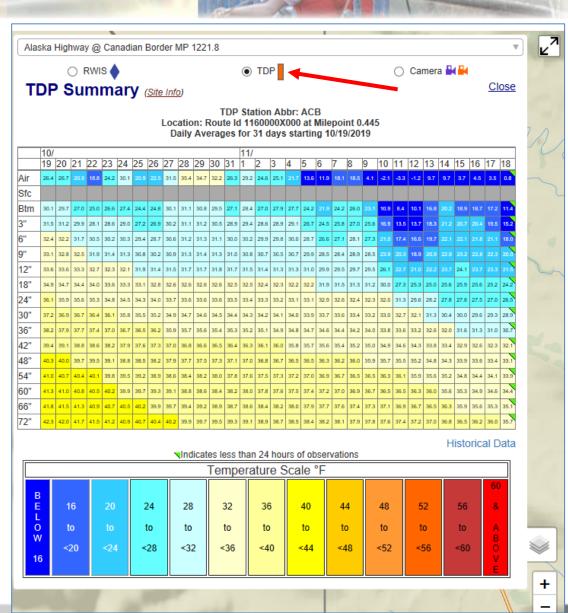


Please note: You must have Acrobat Reader to open any Adocuments on this page. If you do not have Acrobat Reader, click to download the FREE software.



Temperature Data Probe Data

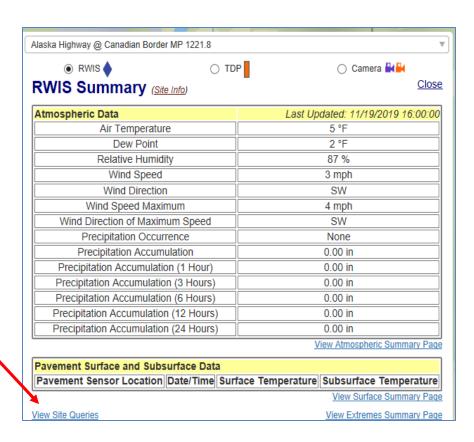
- Some located at RWIS sites
- Some at ATR Sites
 (TDPs are managed by Matt Murphy,
 CR/Highway Data)
- Call Matt with questions on TDPs ©



LOGIN FEATURES

- For those with an LDAP Login (SOA):
 - Wind Rose Data for each site

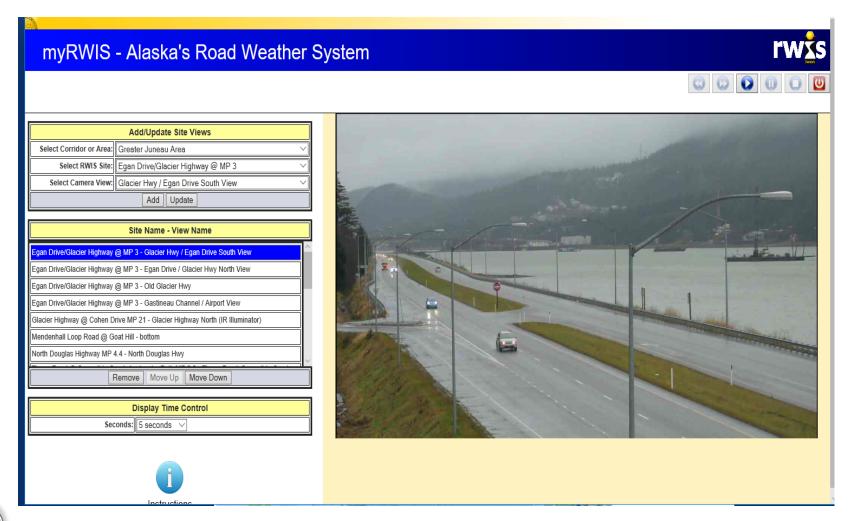
- RWIS Data Query (longer date range queries)
- Subscribe to TDP Reports







Publicly available





Ongoing RWIS Website Tasks

- Still working on improvements We want your feedback!
 - Usability and flow issues? Map navigation issues? Etc.

- Working on moving our RWIS data, images to Azure.
- Looking to move our website to the cloud

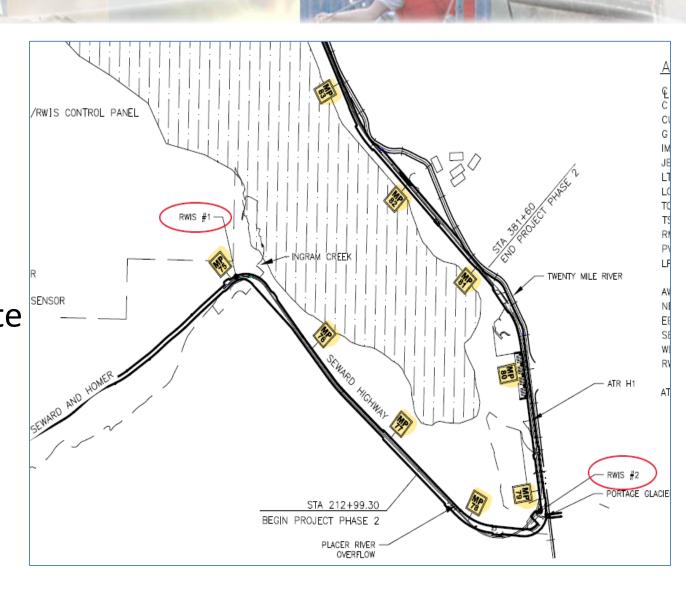
 Transitioning to an open source polling software called IRIS (Integrated Roadway Information System – MNDOT)



Planned Future RWIS Sites

Central Region

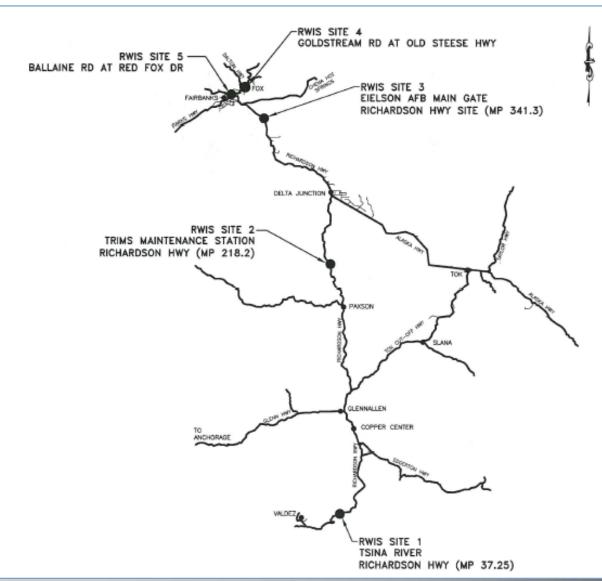
- Moving and upgrading Portage RWIS
- Adding a new camera only site on Seward @ Ingram Creek MP 75.





Planned Future RWIS Sites

- Northern Region is adding four new sites and upgrading one existing RWIS next year.
- 3 sites in Fairbanks, one upgrade Trims, and one new site on Richardson @ Tsina River MP 37.





RWIS Partners

• FAA

 Collocated sites and provide links to their cameras; share power and comm.

NOAA / Alaska NWS

- Data automatically provided to MADIS (Meteorological Assimilation Data Ingest System)
- https://madis-data.ncep.noaa.gov/MadisSurface/
- Local NWS offices and local M&O Stations
- National Center for Atmospheric Research, Boulder CO
 - Data integrated with the MDSS data on Pikalert



Thank you!

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