

WISE ROADS

(Weather Information System to Effectively Reduce Oilfield Delays and Disruptions)

Protecting Roads and Keeping Traffic Moving in Oil Country

Township and county gravel roads are the backbone of the ND economy, particularly its western oil counties. Oil production is a 365-days-per-year effort and can be hampered by roadway structural deficiencies resulting from moisture. Gravel surfacing and subgrade may become so saturated that any trucks quickly damage or destroy the roadway. Consequently, timely placement and removal of road weight restrictions balances the need to prevent costly road rebuilding with road users' needs. WISE Roads weather stations (<https://wiseroadsnd.com>)

with sub-surface probes provides detailed weather conditions and forecasts along with sub-surface moisture and temperatures to help roadway owners make more refined decisions.

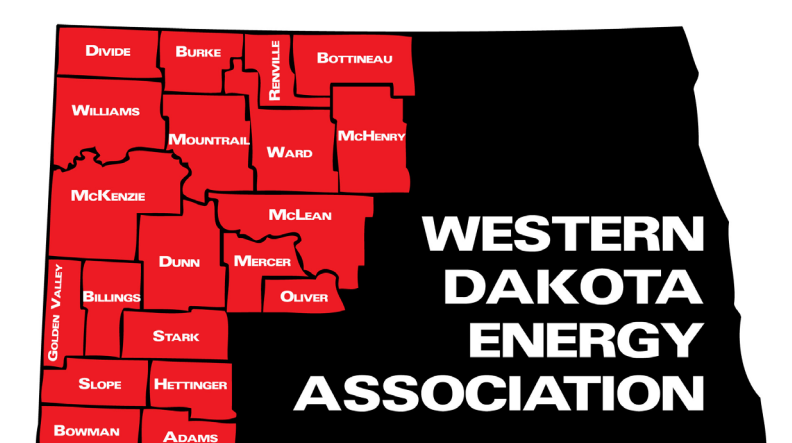
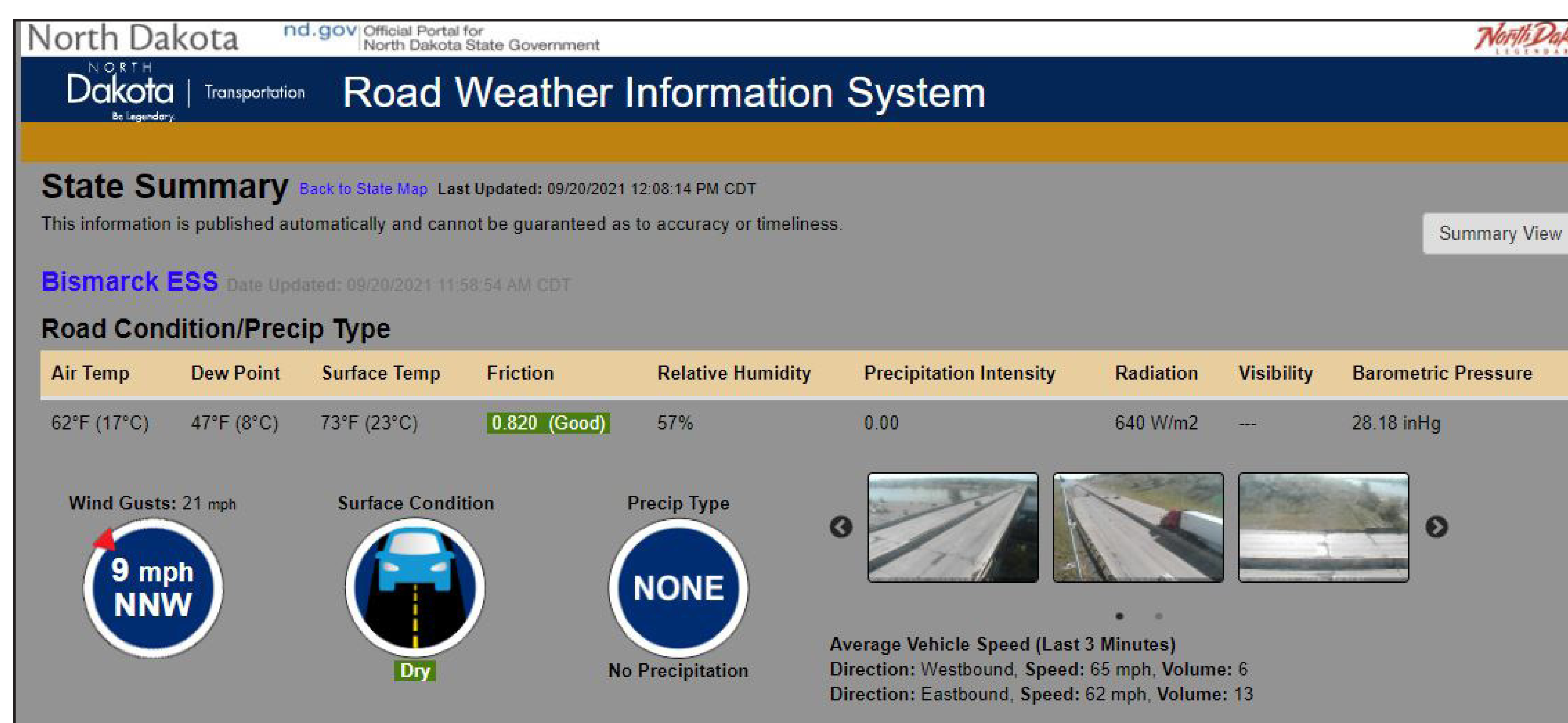
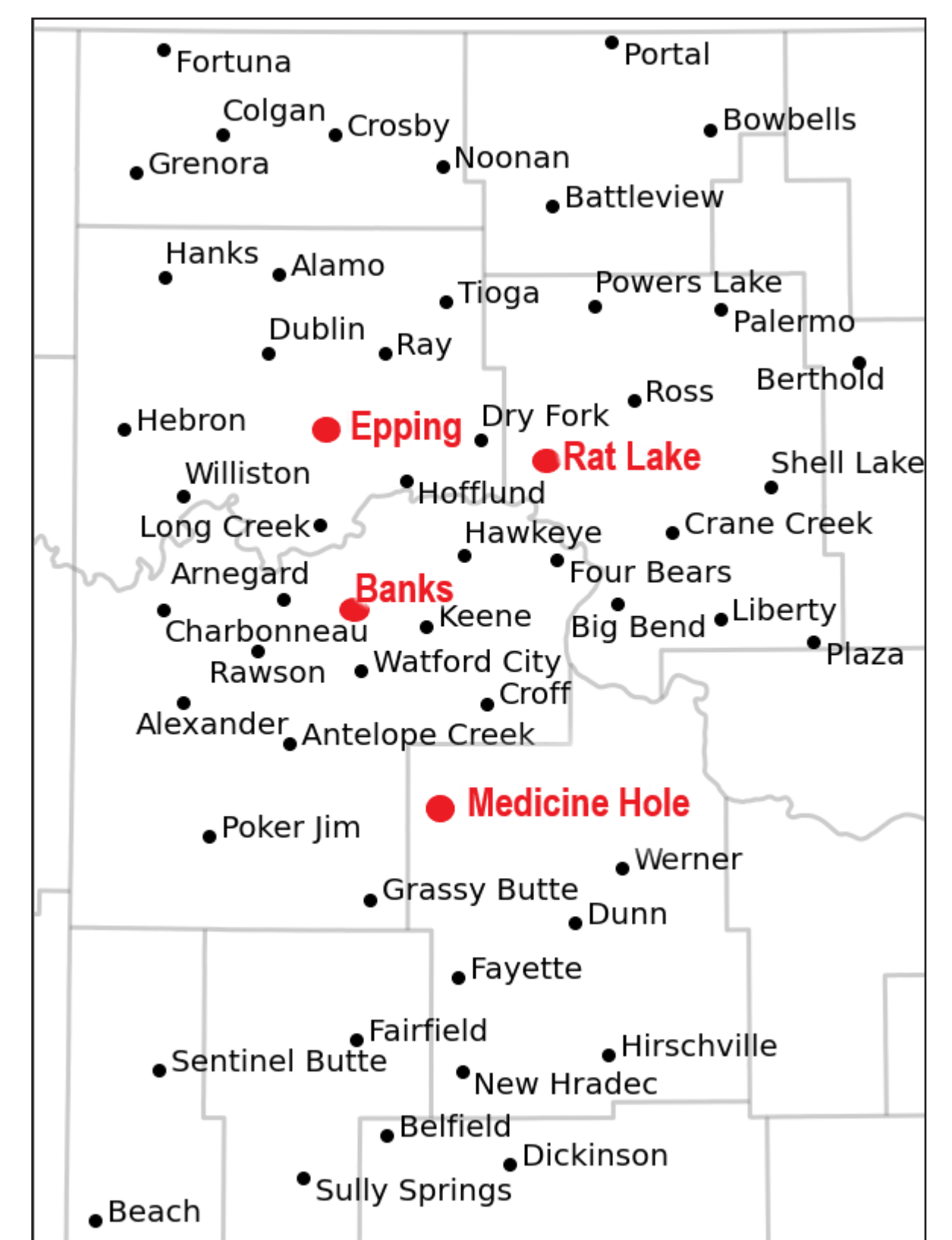


Toward 365 Project

Toward 365 Project allows counties to use site-specific weather and roadway information to limit loads only on roads impacted by weather while allowing full use of non-impacted roads.

Enhancing NDDOT's Transportation Management System

In 2019, the NDDOT began implementing a TMC (Transportation Management System) to manage and create a "one-stop shop" for transportation data. NDLTAP and NDDOT are integrating WISE Road and NDAWN weather information with NDDOT's Road Weather Information System, resulting in a quantum leap forward for the TMC. The integrated information is available on NDDOT's ND Roads web page at <https://travel.dot.nd.gov> and expand the Weather link.



WISE ROADS was developed in a partnership between the Western Dakota Energy Association, NDLTAP and the ND Agricultural Weather Network (NDAWN) at NDSU. Another energy-based improvement, developed to benefit all of North Dakota.