

**Road Weather Management Program
Best Practices for Road Weather Management**

PUBLICATIONS LIST

TITLE:

THE USE OF MOBILE VIDEO DATA COLLECTION EQUIPMENT TO INVESTIGATE WINTER WEATHER VEHICLE SPEEDS

ABSTRACT:

Research involves traffic and weather data (i.e., visibility, roadway snow cover, volume, speed, and headway/gap data) collected by a trailer-mounted video data collection/monitoring system. Collected data used to predict vehicle speed and speed variability. Results indicate that average winter weather speed was 16% lower than that in speed under dry conditions. In winter weather, speed variation was 307% higher than variation during dry conditions. The resulting model predicted that off-peak winter weather speeds would decrease by 3.9 mph when visibility fell below one-quarter mile, and decrease by 7.3 mph when snow began to cover roadway lanes.

SOURCE(S):

Transportation Research Board 79th Annual Meeting, Search TRIS <http://199.79.179.82/sundev/search.cfm>

Keyword(s):

Snow, Visibility, Adverse weather, Vehicle detection, Speed