

State Planning and Research Program Quarterly Report

PROJECT TITLE:

Quantifying the Impact New Capital Projects will have on Roadway Snow and Ice Control Operations

OBJECTIVES:

1. Survey other state DOTs for potential case studies
2. Develop a Methodology
3. Develop a Calculation Tool
4. Apply the Tool to the Case Studies

PERIOD COVERED: January 1, 2016 – March 31, 2016

PARTICIPATING AGENCIES: Minnesota Department of Transportation and the Clear Roads Technical Advisory Committee

PROJECT MANAGER:

Debra Fick/ Tom Peters

SP&R PROJECT NO:

MnDOT Contract No.
06428

PROJECT IS:

 Planning
 X Research & Development

LEAD AGENCY: Mn/DOT

PRINCIPAL INVESTIGATOR:

Jim Sullivan, University of Vermont

Federal Project Number:
TPF-5(218)

ANNUAL BUDGET: \$145,622 (through January 31, 2017)

PROJECT EXPENDITURES TO DATE: \$72,104

WORK COMPLETED:

- Completed field data collection, gathering detailed GPS data for four (4) case study routes in New Hampshire and Minnesota
- Continued method development, integrating the RSIC model with the NRI model and the statewide travel model

SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:

- Complete the integrated RSIC model development and test its application for Vermont
- Develop inputs for the integrated RSIC model for four (4) case studies in Vermont
- Begin the application of the integrated RSIC model to the four case studies in Vermont

STATUS AND COMPLETION DATE: In spite of the late start for the first project teleconference and the survey (one month late) in the first quarter, the project is still on schedule since these tasks are not on the critical path. The second task was started one month early to ensure that the project remained on schedule.

Since the project started in July 2015, the contracted 18-month duration does not include two winter seasons for roadway snow and ice control (RSIC) data collection. The current end date is January 2017, but ending the project then will make it impossible to get the second round of RSIC data next winter, let alone write the final report. Extending the project 6 months to a full 24-month duration will provide adequate time to get the 2nd round of data, analyze it, and write the final report.