

State Planning and Research Program Quarterly Report

PROJECT TITLE: *Alternative Methods for Deicing*

OBJECTIVES: To aid winter maintenance managers in better understanding the performance and impacts of alternative methods for deicing, which may include non-chloride based deicers, blends of deicing products or the utilization of methods of deicing to reduce the number of applications or application rates of deicers.

PERIOD COVERED: Oct. 1 - Dec. 31, 2019

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

PROJECT MANAGER:
Debbie Sinclair / Tom Peters

LEAD AGENCY: Mn/DOT

PRINCIPAL INVESTIGATOR:
Laura Fay, Western Transportation Institute
– Montana State University

SP&R PROJECT NO:
MnDOT Contract No.
1003322, wo4

Federal Project Number:
TPF-5(353)

PROJECT IS:

Planning
 Research & Development

ANNUAL BUDGET: \$77,529

PROJECT EXPENDITURES TO DATE: \$ 45,578

WORK COMPLETED:

- The Task 1 Kick off meeting was held March 4, 2019. Meeting notes were submitted to the TAC March 5, 2019.
- The Task 2 – Literature Review and Reference Document was submitted to the TAC May 15, 2019.
- A check in meeting was held May 17, 2019 to discuss the Task 1 document and draft survey. Feedback from the TAC on Task 2 and the survey were addressed.
- The Task 3 – Survey was released May 21, 2019 and closed July 12, 2019. Once processed, 91 survey responses from six counties, 28 US states, and two Canadian provinces were received. Survey results were submitted to the TAC on August 21, 2019. A meeting was held August 30, 2019 to discuss the survey results.
- A survey was submitted to the TAC to vote on the top 10 case studies topics for development in Task 4. From the TAC response 10 unique case studies were identified and developed.
- The Task 4 – Interviews/Case Studies was submitted December 11, 2019 for TAC review. A meeting to discuss the deliverable was scheduled and held January 6, 2020. The task 4 deliverable is currently being revised.
- The Task 5 – Recommendations are being developed.

SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:

- Task 4 – Interviews/Case Studies will be revised and submitted for TAC review and approval.
- A meeting to review the Task 4 deliverable was held January 6, 2020.
- Task 5 – Recommendations will be completed and submitted January 31, 2020. A meeting will be scheduled for early to mid-February to discuss the revised Task 4 document and the Task 5 Recommendations.
- Task 6 - Final Report work will begin on this task.

STATUS AND COMPLETION DATE:

The Tasks 1, 2, and 3 are completed. Task 4 has been submitted and is currently being revised based on TAC feedback. The research team requested and was granted a time extension. The new project end date is July 31, 2020. Budget expenditures are in line with the project work that has been accomplished.