

**State Planning and Research Program  
Quarterly Report**

**PROJECT TITLE:** *Quantifying the Economic Value of Snow and Ice Operational Success*

**OBJECTIVES:** The goal of this research project is to develop a tool that agencies can use to quantify the economic value of their snow and ice operations including investing in emerging technologies and innovative practices. The tool will provide a realistic cost and benefit to the operations and allow for justification and planning for an appropriate annual budget.

**PERIOD COVERED:** April 1 – June 30, 2025

**PARTICIPATING AGENCIES:** Minnesota Department of Transportation, Clear Roads Technical Advisory Committee, and AECOM Technical Services

**PROJECT MANAGER:**  
Hafiz Munir / Tom Peters

**LEAD AGENCY:** MnDOT

**PRINCIPAL INVESTIGATOR:**  
Mallory Crow, PhD, PE  
AECOM Technical Services, Inc.

**SP&R PROJECT NO:**  
MnDOT Contract No.  
1054111

Federal Project Number:  
TPF-5(479)

**PROJECT IS:**

☐ Planning  
☒ Research & Development

**ANNUAL BUDGET:** \$98,062.06

**PROJECT EXPENDITURES TO DATE:** \$93,388.19

**WORK COMPLETED:**

- Task 1: Project Management
  - Invoices, Progress Reports
  - Check In 3 Meeting – Meeting Minutes
- Task 3: Survey of Practices
  - Completed
- Task 4: Variables and Methodology
  - Completed
- Task 5: Tool Development
  - Delivered draft tool
  - Delivered draft how-to guide for tool
  - Recorded walkthrough video for tool
- Task 6: Final Report
  - Started draft of final report

**SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:**

- Task 1: Project Management
  - Invoices, Progress Reports
  - Check In 4 to go over comments on tool
- Task 5: Tool Development
  - Finalized Tool and Guide
- Task 6: Final Report
  - Draft and Finalized Project Report
  - Final Presentation

**STATUS AND COMPLETION DATE:** Project team requested more time to test and use the draft tool before making comment – therefore requested extension to contract (awaiting). We will have enough budget to address comments and complete the final report.