

**State Planning and Research Program
Quarterly Report**

PROJECT TITLE: *Grip Sensor Technology and Salt Applications*

OBJECTIVES: To examine grip, or friction, as a viable data source for informing winter maintenance operations (WMO). The project will synthesize information gathered on the use of grip in WMO and develop a methodology to apply friction values in an algorithm which informs a decision matrix tool to advise winter maintenance operators on appropriate winter maintenance activities and material application rates.

PERIOD COVERED: April 1 – June 30, 2022

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

PROJECT MANAGER:

Hafiz Munir / Tom Peters

SP&R PROJECT NO:

MnDOT Contract No.
1047786

PROJECT IS:

Planning
 Research & Development

LEAD AGENCY: MnDOT

PRINCIPAL INVESTIGATOR:

Laura Fay, WTI, Montana State University

Federal Project Number:
TPF-5(353)

ANNUAL BUDGET: \$149,977

PROJECT EXPENDITURES TO DATE: \$ 13,714

WORK COMPLETED:

- The kickoff meeting was held April 5, 2022. The presentation and notes from the kick-off meeting were submitted April 14, 2022.
- The Task 1 literature review and Task 2 draft survey questionnaire was submitted June 27, 2022.

SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:

- A meeting to review the Task 1 deliverable and Task 2 survey will be scheduled and held.
- The approved survey questionnaire will be sent out.

STATUS AND COMPLETION DATE: No issues to report at this time.