State Planning and Research Program Quarterly Report

PROJECT TITLE: Grip Sensor Technology and Salt Applications

OBJECTIVES: The goal of this project is 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 activities and material application rates.

PERIOD COVERED: July 1, 2022 – September 30, 2022

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

PROJECT MANAGER:	SP&R PROJECT NO:	PROJECT IS:
Hafiz Munir / Tom Peters	MnDOT Contract No.	
	1047786	Planning
LEAD AGENCY: MnDOT		X Research & Development
	Federal Project Number:	_
PRINCIPAL INVESTIGATOR:	TPF-5(353)	
Laura Fay, WTI, Montana State University		
ANNUAL BUDGET: \$149,977	PROJECT EXPENDITURES TO DATE: \$22,881	

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. A meeting was held September 2, 2022, to discuss the deliverables and next steps. No comments were received on the Task 1 Literature Review and the task was approved September 19, 2022.
- The Task 2 survey was approved by MSU IRB. The survey was sent out September 21, 2022.

SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:

- The Task 2 Survey Summary will be developed and submitted for review and comment.
- A meeting to review the Task 2 deliverable will be scheduled and held.
- Task 3 effort will begin.

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