State Planning and Research Program Quarterly Report

PROJECT TITLE : High Performance Plow Blade Evaluation		
OBJECTIVES : The objective of this project is to develop a field test protocol and cost-benefit analysis methodology that may be reproduced by Clear Roads agencies in future testing, so that other blades may be evaluated and compared using the same standard procedures used in this project.		
evaluated and compared using the same standard procedures used in this project. PERIOD COVERED : April 1 to June 30, 2021		
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.	
	1031542	Planning
LEAD AGENCY: MnDOT		X Research & Development
	Federal Project Number:	
PRINCIPAL INVESTIGATOR:	TPF-5(353)	
William Schneider IV, PhD.,		
University of Akron		
ANNUAL BUDGET: 195,746.58 (Project	PROJECT EXPENDITURES TO DATE: \$71,340	
Budget)		
WORK COMPLETED:		
• Task 1: Literature review complied in matrix-style summary (100%)		
• Task 2: Survey of DOTs in matrix-style summary (100%)		
• Task 3: List of potential blades and testing locations for research (100%)		
• Task 4: Design Test Protocol (80%)		
• Task 5: Field data collection (80%)		
• Task 6: Standard Test Protocol (90%)		
• Task 7: Cost-Benefit Analysis (95%)		
• Task 8: Quick Reference Guide (95%)		
• Task 9: Final Report (95%)		
Values for the tasks above were adjusted to reflect the new work required by the amendment.		
SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER: We are planning		
on doing future work involving testing new blades in the lab.		
STATUS AND COMPLETION DATE: At this point we have successfully signed a new amendment, which		
allows UA the ability to test some plow blades in the laboratory setting. The majority of the work over this		
quarter was to solicit help with blade selection.		