State Planning and Research Program		
Quarterly Report		
PROJECT TITLE: The Effects of Implements of Husbandry on Pavement Performance TPF (148)		
OBJECTIVES: 1. Determine pavement responses to selected farm equipment. 2. Compare pavement damage/response to typical 5-axle semi.		
PERIOD COVERED: April, 2009- June, 2009		
PARTICIPATING AGENCIES: MnDOT, Minnesota Local Road Research Board, Iowa DOT, Illinois DOT, Professional Nutrient Applicators Association of Wisconsin.		
PROJECT MANAGER: Dr. Shongtao Dai	SP&R PROJECT NO:	PROJECT IS:
LEAD AGENCY: Mn/DOT PRINCIPAL INVESTIGATOR: Lev Khazanovich.	TPF-148	Planning X Research & Development
ANNUAL BUDGET:	PROJECT EXPENDITURES TO DATE:	
\$430,000 for 3 years	About \$158,300 was spent on the construction of the test sections and \$125,000 was spend on testing plan development, data collection, and data analysis.	
WORK COMPLETED: The research team conducted a data reduction process of the data collected in Fall 08 and Spring 09 tests. The analysis of video files for determination of traffic wander has been completed. Pick-Peak analysis of asphalt strains and subgarde stresses was completed for 10mph loading with 50% and80% of the maximum weights. A preliminary data analysis has been initiated. Worked with the private section to arrange Tekscan tests for the tested equipment. Bi-weekly project meetings have been held to review data analysis. A draft plan has been developed on how to repair and instrument the failed section of Cell83. SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER: The research team will complete the data reduction process of the data collected in Fall 08 and Spring 09 tests. STATUS AND COMPLETION DATE:		

The completion date of the project: Spring, 2010.