

**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: October, 2008- December, 2008

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

TPF-148

Planning
 Research &
Development

PRINCIPAL INVESTIGATOR: Lev Khazanovich.

ANNUAL BUDGET:

\$430,000 for 3 years

PROJECT EXPENDITURES TO DATE:

About \$158,300 was spent on the construction of the test sections and \$750,000 was spent on testing plan development, data collection, and data analysis.

WORK COMPLETED:

The research team submitted task 3 and 4 reports. The task 2 report will be submitted shortly. A device for improvement of traffic wander measurements replacing paint marks on the pavement surface was designed and will be prepared before March 2009 testing.

A presentation was given to Minnesota county engineers and another one was given to Midwest Forage Association conference in Wisconsin. A meeting was held with PNAAW to arrange spring testing equipment.

SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:

The research team will complete the task 2 report and continue data analysis of the field data collected. The next round of field testing will be conducted in March of 2009. It is anticipated that 12 vehicles will be tested.

STATUS AND COMPLETION DATE:

The completion date of the project: Spring, 2011.