

RESEARCH PROGRESS REPORT FOR THE QUARTER ENDING: 3rd

Wisconsin Department of Transportation
DT1241 2009

Research, Development and Technology Transfer	
Program: (Choose One)	
<input type="checkbox"/> Policy Research	<input type="checkbox"/> Pooled Fund TPF #
<input checked="" type="checkbox"/> Wisconsin Highway Research Program	<input type="checkbox"/> Other
Project Title: Analysis of Permit Vehicle Loads in Wisconsin	
Administrative Contact/Phone #: Peg Lafky/(608)266-3663	WisDOT Project ID(s): 0092-08-15
WisDOT Technical Contact/Phone #: Travis McDaniel	Other Project ID:
Project Investigator/Phone # (agency & contact): Jian Zhao UW-Milwaukee, 4142292330	Approved Starting Date: 10/1/2007
WisDOT Comments:	Original End Date: 9/30/2008
	Current End Date: 9/30/2009
Sponsor: Wisconsin Department of Transportation	Number of Extensions: 2

Schedule Status:

- On schedule Ahead of schedule
 On revised schedule Behind schedule (Please explain below)

Total Project Budget	Expenditures Current Quarter	Total Expenditures	% Funds Expended	% Work Completed
\$49,535.00		\$4,953,500.00	100%	100%

Project Description:

Truck transportation plays a vital role in Wisconsin's economy. Allowing heavier trucks to operate on the highways can help reduce shipping costs and increase the Wisconsin's competitiveness; however, studies are needed to evaluate the challenges from increasing truck loads on highway infrastructures, including fact-based bridge assessment to determine the live load moment capacity of a bridge; and realistic estimation of load effects due to OSOW vehicles traveling on the bridge. Information is desired for the state to accommodate increasing oversize/overweight vehicles while preventing excessive damage to the highways and bridges in Wisconsin.

The goal of this project is to evaluate the OSOW permit vehicles in Wisconsin; Identify vehicle configurations that best envelop the permit vehicles in Wisconsin; Propose modification to Standard Permit Vehicle(s) based on moment and shear in representative bridge spans caused by the collected permit vehicles; and provide modifications to Chapter 45 of the Wisconsin Bridge Manual on bridge rating.

Tasks to be completed include:

- Collect representative OSOW permit records in Wisconsin
- Review literature and other state's DOT practices
- Analyze typical bridges under permit vehicle loads
- Supplemental Materials for the Wisconsin Bridge Manual

Progress This Quarter: (Includes project committee meetings, work plan status, contract status, significant progress, etc.)
Finished and submitted the final report.

Anticipated Work Next Quarter:

N/A

Circumstances Affecting Progress and/or Budget:

Gantt Chart:

Percentage Complete	Tasks	Time (months)											
		01~02	03~04	05~06	07~08	09~10	11~12	13~14	15~16	17~18	19~20	20~22	23~24
100%	Literature review	x						x					
100%	Permit record review	x	x	x									
100%	Analytical study			x	x	x	x	x	x	x			
100%	Bridge rating materials									x	x		
100%	Implementation plan		1,2				3			5			4
	Reports		*	*		*	*		*	*		*	+