

RESEARCH PROGRESS REPORT FOR THE QUARTER ENDING: 2nd

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		\$37,160.00	75	98

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 the recommendations to the Wisconsin Bridge Manual.

Met with the advisor committee (Scot Becker, Travis McDaniel, Laura Shadewald) on June 11, 2009. Suggestions on the final report and the recommendations to the Bridge Manual was discussed.

Anticipated Work Next Quarter:

Finish the final project report incorporating the comments from the advisory committee.

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			
95%	Bridge rating materials									x	x		
95%	Implementation plan		1,2				3			5			4
	Reports		*	*		*	*		*	*		*	+