

**State of Wisconsin/Department of Transportation**  
**RESEARCH PROGRESS REPORT FOR THE QUARTER ENDING: December 31, 2007**

<b>Program: SPR-0010(36) FFY99</b>	<b>Part: II Research and Development1</b>
<b>Project Title:</b> Database Development for a Hot-Mix Asphalt Pavement Performance Analysis System <b>Administrative Contact:</b> Jason Bittner <b>WisDOT Technical Contact:</b> Judie Ryan <b>Approved by COR/Steering Committee:</b> FY07, \$50,000, 12 months <b>Project Investigator (agency &amp; contact):</b> Robert Schmitt, UW-Platteville	<b>Project ID:</b> 0092-06-13 (MRUTC 07-11) <b>Sponsor:</b> MRUTC <b>Approved Starting Date:</b> November 16, 2006 <b>Approved Ending Date:</b> February 29, 2008

**Description:**

Total study budget	Current FFY budget	Expenditures for current quarter	Total Expenditures to date	Percent Complete
\$50,000	\$50,000	\$7,000	\$49,000	95

**Progress This Quarter:**

(Includes project committee mtgs, work plan status, contract status, significant progress, etc.)

Task 1. Literature Review

The objective of Task 1 is to identify, collect, review, and synthesize literature and research to understand all relevant literature on the relationship of pavement performance to design, construction, maintenance, and environmental variables. Task 1 is 100% complete.

Task 2. Survey and Review of Pavement Management Systems

The objective of Task 2 is to survey state highway agencies to acquire information on their pavement management systems. Task 2 is 100% complete.

Task 3. Database System Development.

The objective of Task 3 is the development of a database system including several elements, such as the overall purpose of the system, data types and formats to be collected and managed, software and hardware requirements, as well as institutional issues involved in the implementation and use of the system. Task 3 was completed this quarter and findings can be found in the draft report. Task 3 is 100% complete.

Task 4. Numerical Modeling and Statistical Analysis

The objective of Task 4 is to develop an analysis template for aligning design and construction datasets with the pavement performance indicator datasets, and demonstrating methodologies for analyzing the data. Task 4 was completed this quarter and findings can be found in the draft report. Task 4 is 100% complete.

Task 5. Final Report.

The objective of Task 5 is to submit a final report documenting all findings in the project. The draft report was submitted to the research panel in December. Task 5 is 80% complete.

**Work Next Quarter:**

Task 1. Literature review

The literature review is 100% complete.

Task 2. Survey and Review of Pavement Management Systems

The survey and review of PMS in Task 2 is 100% complete.

Task 3. Database System Development.

Task 3 is 100% complete.

Task 4. Numerical Modeling and Statistical Analysis

Task 4 is 100% complete.

Task 5. Final Report.

Based on comments from the research panel, revisions will be made to the final report.

**Circumstances affecting progress/budget:**

The project has been delayed about 3 months to allow review time for the draft final report.

**Gantt Chart:**

Project Progress Chart  
 MRUTC Project 0092-06-13

Updated: December 31, 2007  
 Database Development of an HMA  
 Pavement Performance Analysis System

Task	Description	Qtr 1			Qtr 2			Qtr 3			Qtr 4			Qtr 5			Percent Complete	
		Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan		Feb
1	Literature Review																	100
2	PMS Review																	100
3	System Development																	100
4	Statistical Modeling																	100
5	Final Report																	80
Proposed																		95
Actual																		95