

**State of Wisconsin/Department of Transportation**  
**RESEARCH PROGRESS REPORT FOR THE QUARTER ENDING: March 31, 2008**

<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> James McDonnell <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> MRUTC 07-11 (0092-06-13) <b>Sponsor:</b> MRUTC <b>Approved Starting Date:</b> November 16, 2006 <b>Approved Ending Date:</b> 2/29/08; req. April 30, 2008

**Description:**

Total study budget	Current FFY budget	Expenditures for current quarter	Total Expenditures to date	Percent Complete
\$50,000	\$50,000	\$500	\$49,500	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 on December 10, 2007. Comments were provided by the panel in December. This quarter, the first draft report was revised and the second draft report was emailed to the panel on April 14, 2008. Task 5 is 90% complete.

**Work Next Quarter:**

Task 1. Literature review

100% complete.

Task 2. Survey and Review of Pavement Management Systems

100% complete.

Task 3. Database System Development.

100% complete.

Task 4. Numerical Modeling and Statistical Analysis

100% complete.

Task 5. Final Report.

Print the final report and mail to MRUTC.

**Circumstances affecting progress/budget:**

The project has been delayed about 4 months to make revisions to the first draft report.

**Gantt Chart:**

Project Progress Chart  
 MRUTC Project 0092-06-13

Updated: April 14, 2008  
 Database Development of an HMA  
 Pavement Performance Analysis System

Task	Description	Qtr 1			Qtr 2			Qtr 3			Qtr 4			Qtr 5			Qtr 6			Percent Complete
		Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	
1	Literature Review																			100
2	PMS Review																			100
3	System Development																			100
4	Statistical Modeling																			100
5	Final Report																			90
Proposed																				98
Actual																				98