

## TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Lead Agency (FHWA or State DOT):           IOWA DOT          

**INSTRUCTIONS:**

*Project Managers and/or research project investigators should complete a quarterly progress report for each calendar quarter during which the projects are active. Please provide a project schedule status of the research activities tied to each task that is defined in the proposal; a percentage completion of each task; a concise discussion (2 or 3 sentences) of the current status, including accomplishments and problems encountered, if any. List all tasks, even if no work was done during this period.*

<b>Transportation Pooled Fund Program Project #</b> TPF-5(081)	<b>Transportation Pooled Fund Program - Report Period:</b> <input checked="" type="checkbox"/> Quarter 1 (January 1 – March 31), 2012  Quarter 2 (April 1 – June 30)  Quarter 3 (July 1 – September 30)  <input type="checkbox"/> Quarter 4 (October 4 – December 31)	
<b>Project Title:</b> Midwest Smart Work Zone Deployment Initiative		
<b>Project Manager:</b> Dan Sprengeler	<b>Phone:</b> 515-239-1823	<b>E-mail:</b> dan.sprengeler@dot.iowa.gov
<b>Project Investigator:</b> Tom McDonald	<b>Phone:</b> 515-294-6384	<b>E-mail:</b> tmcdonal@iastate.edu
<b>Lead Agency Project ID:</b> RT 63	<b>Other Project ID (i.e., contract #):</b> Addendum 189	<b>Project Start Date:</b> 2001-On-going Pooled Fund
<b>Original Project End Date:</b> On-going	<b>Current Project End Date:</b> On-going	<b>Number of Extensions:</b> None

Project schedule status:

On schedule     
  On revised schedule     
  Ahead of schedule     
  Behind schedule

Overall Project Statistics:

Total Project Budget	Total Cost to Date for Project	Total Percentage of Work Completed
\$1,702,500	\$1,515,021.64	On-going

**Quarterly** Project Statistics:

Total Project Expenses This Quarter	Total Amount of Funds Expended This Quarter	Percentage of Work Completed This Quarter
N/A	N/A	On-going

**Project Description:**

- Vendor Solicitation
- Distribute Group Reports
- Maintain website
- TAC meetings
- Maintain research report
- Recommend research reimbursement
- Solicit state participation
- Inquiry contact
- (On-going project)

**Progress this Quarter (includes meetings, work plan status, contract status, significant progress, etc.):**

Work has been completed on all program projects prior to 2008 and continues on subsequent program year projects as listed below. Projects for the 2012 program have been approved by the Board of Directors and contracts sent to the Principal Investigators.

Received and recorded quarterly report data from Principal Investigators for contracted projects. Following is a summary of accomplishment for individual projects under contract.

**2006 Program:**

-Smart Work Zone Forecasting Service, Iowa State University, Zach Hans, PI  
Final report has received and approved by the Board. This project is now complete.

**2008 Program**

-Evaluation of Variable Speed Limits for Work Zones, University of Missouri,  
Praveen Edara, PI

Work on project continues after having been delayed due to lack of study sites. A no-cost time extension to 09/30/2012 has been approved and work is expected to be completed in 2012. 55 % complete at this time.

-Ramp Metering for Work Zone Mobility & Safety, University of Missouri,  
Praveen Edara, PI

Researchers have worked with MoDOT to identify study sites and good progress is being made. A no-cost time extension to 05/31/2012 has been approved. 70 % complete at this time.

-Evaluation of Effectiveness of Temporary Pavement Markings, Iowa State University,  
Neal Hawkins, PI

Project has been delayed due to unavailability of study sites but a project was identified and field work initiated in the Spring of 2011. A no-cost extension has been processed to extend the completion to June 2012. Project is nearing completion, 99% complete at this time.

**2010 Program**

-Development of a Traffic Diversion Estimation Model for Freeway

Construction Work Zones, University of Wisconsin-Milwaukee, Alan Horowitz and Yue Liu, are the PIs.

Final report has been reviewed and approved by the Board of Directors. This project is completed.

**2011 Program**

-Investigation of Incentive Contracting for Minimizing Work Zone Traffic Impacts, University of Missouri with Carlos Sun as PI. Work is progressing well and literature review has been completed. A no-cost extension to November will be requested but completion is expected in 2012.

-Influencing Work Zone Traffic Flow Through Variable Messaging Technologies, Missouri University of Science and Technology with Ghulam Bham as PI. Some delays in acquiring data have been encountered and a no-cost time extension has been requested. Project is approximately 30% complete at this time.

-Integrated Risk Management Systems for Improving Internal Traffic Control, Work Zone Safety, and Mobility During Major Construction, Iowa State University with Jennifer Shane as PI. Good progress is being made, project is currently about 70% complete.

#### 2012 Program

Four projects have been approved by the Board of Directors and contracts have been sent to the PIs for approval.

#### **Anticipated work next quarter:**

Work will continue on contracted projects and additional research should be completed in 2012. The 2012 program project contracts should be returned and submitted to the Iowa DOT for final approval.

#### **Significant Results:**

Several projects were completed this quarter and progress is being made on others.

**Circumstance affecting project or budget (Describe any challenges encountered or anticipated that might affect the completion of the project within the time, scope, and fiscal constraints set forth in the agreement, along with recommended solutions to those problems).**

No problems to report.