TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Lead Agency (FHWA or State DOT): <u>IOWA DOT</u>			
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.			
Transportation Pooled Fund Program Project # TPF-5(081)		Transportation Pooled Fund Program - Report Period:	
		□Quarter 1 (January 1 – March 31)	
		X Quarter 2 (April 1 – June 30)	
		□Quarter 3 (July 1 – September 30)	
		□Quarter 4 (October 4 – December 31)	
Project Title: Midwest Smart Work Zone Deployment Initiative			
Project Manager: Phone: E-mail:		:	
Dan Sprengeler	515-239-1823 dan.sprengeler@dot.iowa.gov		
Project Investigator: Tom McDonald	Phone: E-ma 515-294-6384 tmcc		il: lonal@iastate.edu
Lead Agency Project ID: RT 63	Other Project ID (i.e., contract #): Addendum 189		Project Start Date: 1/01/09
Original Project End Date: 12/31/09	Current Project End Date: 12/31/11		Number of Extensions:
Project schedule status:			
X On schedule ☐ On revised sched	ule		☐ Behind schedule
Overall Project Statistics:			
Total Project Budget	Total Cost to Date for Project		Total Percentage of Work Completed
\$35,595.00	\$9,084.53		25%
Quarterly Project Statistics:			
Total Project Expenses This Quarter	Total Amount of Funds Expended This Quarter		Percentage of Work Completed This Quarter

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 2005 program projects and continues on 2006, 2007, 2008, 2009 and 2010 program year projects. Three projects from these program years were completed and draft final reports submitted for review this quarter. Projects have been selected for the 2011 program.

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

Project was previously delayed due to lack of study sites and a no-cost extension to June 2011 has been approved. Final work on completion is underway. 75% complete at this time..

2007 Program:

-Work Zone Capacity Guidelines, Missouri University of Science & Technology,

Ghulam Bham, Pl

Work was delayed due to unavailability of study sites. Data has been gathered and reviewed. Draft final report has been submitted. 99% complete

- Evaluation of Work Zone Speed Limits, Missouri University of Science & Technology, Ghulam Bham, PI Work was delayed due to unavailability of suitable date collection sites. The revised draft final report has been submitted. 99% complete

2008 Program

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

Praveen Edara, Pl

Work on project continues but has been delayed due to lack of study sites. Equipment quotes have been received from a vendor for approval by MoDOT. A no-cost time extension to 10/31/2011 has been submitted. 20 % 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. Equipment quotes have been received from a vendor and awaiting approval by MoDOT. A bidding process for the equipment has been initiated by MoDOT. A no-cost time extension to 11/30/2011 has been submitted. 20 % complete at this time.

- -Examining Driver Behavior in Response to Work Zone Intervention, University of Iowa, Michele Reyes, Pl. Draft final report has been submitted, 99% complete.
- -Evaluation of Effectiveness of Temporary Pavement Markings, Iowa State University,

Neal Hawkins, PI

Project has been delayed due to unavailability of study sites. A project has now been identified and field work will be underway in the Spring of 2011. A no-cost extension has been processed to extend the completion to June 2012. 20% complete at this time.

2009 Program

Behavior Study of Merge Practices of Drivers at Work Zone Closures, Iowa State University, Shauna Hallmark, PI
 Work has been completed at this time and the draft final report submitted.
 99% complete at this time

2010 Program

-Cost Benefit Analysis of Sequential Warning Lights in Nighttime Work Zone Tapers, University of Missouri, Carlos Sun, PI

Tasks 1-3 have been completed and progress is being made on other tasks. Project is on track, 90% complete at this time.

-Determining the Effectiveness of Graphic-Aided Dynamic Message Signs in Work Zones, University of Kansas, Yong Bai, PI

Four of five projects tasks have been completed and data analysis is underway. Project is on-schedule, 85% complete.

-Development of a Traffic Diversion Estimation Model for Freeway

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

Work is proceeding on the project, with three of six project tasks completed. Model development and application are underway. Data collection is proceeding well. Approximately 80% complete at this point.

2011 Program

Three projects have been approved for award by the Board of Directors. Contracts have been submitted to the PIs for signature.

Anticipated work next quarter:

We plan to continue working the appropriate tasks for this project.

Significant Results:

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.