# TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Lead Agency (FHWA or State DOT):	IOWA	DOT	· · · · · · · · · · · · · · · · · · ·
INSTRUCTIONS:  Project Managers and/or research project inviduring which the projects are active. Please pleased in the proposal; a percentage completincluding accomplishments and problems end	provide a proje tion of each ta	ect schedule status of the sk; a concise discussion	e research activities tied to each task that is a (2 or 3 sentences) of the current status,
Transportation Pooled Fund Program Project # TPF-5(100)		Transportation Pooled Fund Program - Report Period: Quarter 1 (January 1 – March 31) Quarter 2 (April 1 – June 30) Quarter 3 (July 1 – September 30)  X Quarter 4 (October 4 – December 31), 2012	
Project Title: Deicer Scaling Resistance of Concrete Mixtur	res Containing	Slag Cement	
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Lead Agency Project ID: RT 0336	Other Project ID (i.e., contract #): Addendum 374		Project Start Date: 4/15/10
Original Project End Date: 10/14/11	Current Project End Date: 7/25/13		Number of Extensions:
Project schedule status:	1123/13		Pooled fund project; interim funding
$\square$ On schedule $X$ On revised schedule $\square$ Ahead of schedule		Ahead of schedule	☐ Behind schedule
Overall Project Statistics:			
Total Project Budget	Total Cost to Date for Project		Total Percentage of Work Completed
\$74,888	\$13,711		65%
Quarterly Project Statistics:			
Total Project Expenses This Quarter \$3,269		ount of Funds ed This Quarter	Percentage of Work Completed This Quarter
\$3,269			5%

### **Project Description:**

Field surveys of portland cement concrete pavements and bridge decks containing slag cement (13) have already been conducted. This was done to evaluate whether the addition of slag cement to the concrete mixtures increased the surface scaling caused by the routine application of deicer salt. From this study it appeared that construction-related issues played a bigger role in the observed scaling performance than did the amount of slag in the concrete mixture. The work also indicated that the test method C672 may be more severe than most environments.

The aim of this project is therefore to recommend a test method that is more representative of field performance for concrete in a salt scaling environment.

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

• 8 of 26 laboratory mixtures have been prepared

## Anticipated work next quarter:

• Iowa State University will continue with verification testing

#### Significant Results:

See phase report: http://www.intrans.iastate.edu/research/documents/research-reports/deicer\_scaling\_w\_cvr.pdf

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).