

TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Lead Agency (FHWA or State DOT): Iowa Department of Transportation

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 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(290)		Transportation Pooled Fund Program - Report Period: X Quarter 1 (January 1 – March 31, 2022) Quarter 2 (April 1 – June 30, 2022) Quarter 3 (July 1 – September 30, 2022) Quarter 4 (October 4 – December 31, 2022)	
Project Title: Aurora Program			
Project Manager: Tina Greenfield		Phone: 515-233-7746	E-mail: tina.greenfield@dot.iowa.gov
Project Investigator: Zach Hans		Phone: 515-294-8103	E-mail: zhans@iastate.edu
Lead Agency Project ID: RT 0034	Other Project ID (i.e., contract #): Addendum 156	Project Start Date: January 1, 2013	
Original Project End Date: May 31, 2019	Current Project End Date: – July 31, 2022	Number of Extensions:	

Project schedule status:

X 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
\$2,250,000	\$2,146,807	

Quarterly Project Statistics:

Total Project Expenses This Quarter	Total Amount of Funds Expended This Quarter	Percentage of Work Completed This Quarter
\$0	N/A	

Project Description:

The Aurora Program is a consortium of public agencies focused on collaborative research, evaluation, and deployment of technologies for detailed road weather monitoring and forecasting. Members seek to implement advanced road weather information systems (RWIS) that fully integrate state-of-the-art roadway and weather forecasting technologies with coordinated, multi-agency weather monitoring infrastructures; ultimately lessening adverse impacts of inclement weather.

Progress this Quarter (includes meetings, work plan status, contract status, significant progress, etc.). These efforts are identified below.

Program Administrative Activities:

- Provided program management in terms of projects and program budgets.
- Updated website content.
- Provided project ideas proposed by Frost during 2021 to North Dakota DOT.

Facilitate Meetings and Conference Calls:

- Project-related meetings are noted in "Project-Specific Activities", including:
 - WSI Working Group Quarterly Meeting.

Processing Travel Requests, Travel Reimbursements, and Meeting Expenses:

- N/A

Project-Specific Activities:

- Distributed quarterly reports and invoices for project team approval.
- Upon approval, submitted invoices to the Iowa DOT for payment.
- 2014-01 "Demonstration and Inter-comparison of Seasonal Weight Restriction Models"
 - After coordinating with research team, addressed question from North Dakota DOT regarding access to <http://www.nrcc.cornell.edu/industry/roads-nd/>
- 2020-03 "Ongoing Issues with Winter Weather Severity Indices"
 - Quarterly working group meeting was held March 30, 2022.
 - Coordinated with Montana State University regarding WSI working group new member letters, i.e. Aurora chair signature.
- 2018-02 "Invasive and Non-Invasive Sensing: Assessing Agreement between Measurement Systems"
 - Coordinated with states regarding non-sensor installation status and data acquisition.
 - Addressed vendor question.
- 2011-02 "RWIS Training Tool"
 - Continued work associated with assuming control and management of the tool, including monthly billing.

Anticipated work next quarter:

Program Administrative Activities:

- Manage budget.

Facilitate Meetings and Conference Calls:

- Facilitate project correspondence, meetings and status reports regarding active 290 projects.

Processing Travel Requests, Travel Reimbursements, and Meeting Expenses:

- N/A

Project-Specific Activities:

- 2018-02 “Invasive and Non-Invasive Sensing: Assessing Agreement between Measurement Systems”
 - Continue coordination with states regarding non-sensor installation status and data acquisition. Development of data dashboard.
- Facilitate project correspondence, meetings and status reports regarding active 290 projects.

Significant Results:

- 2018-02 “Invasive and Non-Invasive Sensing: Assessing Agreement between Measurement Systems”: Data acquisition.
- 2011-02 “RWIS Training Tool”: Continued support.

Circumstance affecting project or budget: A no cost extension was necessary to support 2018-02 “Invasive and Non-Invasive Sensing: Assessing Agreement between Measurement Systems” due to sensor installation delays.