

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.

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|---|---|---|---|
| Transportation Pooled Fund Program Project # TPF-5(290) | | Transportation Pooled Fund Program - Report Period: Quarter 1 (January 1 – March 31, 2020) Quarter 2 (April 1 – June 30, 2020) Quarter 3 (July 1 – September 30, 2020) X Quarter 4 (October 1 – December 31, 2020) | |
| 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: May 31, 2021 | 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 |
|----------------------|--------------------------------|------------------------------------|
| \$2,150,000 | | |

Quarterly Project Statistics:

| Total Project Expenses This Quarter | Total Amount of Funds Expended This Quarter | Percentage of Work Completed This Quarter |
|-------------------------------------|---|---|
| | 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.

Facilitate Meetings and Conference Calls:

- Project-related meetings are noted in “Project-Specific Activities”

Processing Travel Requests, Travel Reimbursements, and Meeting Expenses:

- N/A

Project-Specific Activities:

- General
 - Tracked project status and prepared a summary for recently completed and active projects.
 - Distributed quarterly reports and invoices for project team approval.
- 2020-03 “Ongoing Issues with Winter Weather Severity Indices”
 - Facilitated a WSI working group meeting was held on November 24, 2020.
 - Provided the project whitepaper to InTrans publications for final editing.
 - Worked with research team and publications in effort to complete final edits and citations. The final report is anticipated January 2021.
- 2020-01 “Impacts of Atmospheric Rivers in the Transportation Sector”
 - Coordinated with research and project teams regarding cost extension and associated tasks.
 - Coordinated with research team and Iowa DOT regarding executing the cost extension.
- 2014-01 “Demonstration and Inter-comparison of Seasonal Weight Restriction Models, Phase 2”
 - Facilitated final project presentation on November 12, 2020.
 - Participated in project presentation to North Dakota DOT on November 20, 2020. Did not participate in project presentation to Michigan and Wisconsin DOTs on December 2, 2020.
 - Coordinated between research team and InTrans publication group regarding completion of final project report.
 - Posted final report on December 30, 2020 (<https://aurora-program.org/research/completed/seasonal-weight-restrictions-demonstration-phase-2/>).
- 2019-01 Optimal RWIS Sensor Density and Location – Phase 3
 - Coordinated with research team regarding possible timing of final project meeting.
- 2018-02 “Invasive and Non-Invasive Sensing: Assessing Agreement between Measurement Systems”
 - Coordinate with states regarding non-sensor installation status and data acquisition.
 - Provided project information to Alaska.
 - Provided High Sierra contact to Washington.
- 2018-01b “RWIS LCCA Tool”
 - Facilitated project update meeting on December 2, 2020, including tool demonstration.
 - Coordinated with research team regarding data request, including requesting revisions.

TPF Program Standard Quarterly Reporting Format

- Reached out to Minnesota DOT regarding possible acquisition of data for use in the tool.
- 2011-02 “RWIS Training Tool”
 - Continued work associated with assuming control and management of the tool (<http://aurorabase.iteris.com/login/?destination=/>), including monthly billing.
 - Provided details to Arizona regarding access.

Anticipated work next quarter:

Program Administrative Activities:

- Manage budget.
- Coordinate with InTrans publications group regarding final report editing for active 290 projects.

Facilitate Meetings and Conference Calls:

- Facilitate project correspondence, meetings, status reports and final presentations for active 290 projects.

Processing Travel Requests, Travel Reimbursements, and Meeting Expenses:

- N/A

Project-Specific Activities:

- General
 - All 290 funded projects must be completed by March 31, 2021. Therefore, coordinate with all research teams to ensure that all work will be completed by the deadline.
 - Facilitate project correspondence, meetings and status reports regarding active 290 projects.
- 2018-01b “RWIS LCCA Tool”.
 - Assist with data acquisition.
 - Held project meeting on December 2, 2020.
- 2018-02 “Invasive and Non-Invasive Sensing: Assessing Agreement between Measurement Systems”
 - Coordinate with states regarding non-sensor installation status and data acquisition.

Significant Results:

- Completion of 2014-01 “Demonstration and Inter-comparison of Seasonal Weight Restriction Models, Phase 2”.
- Draft whitepaper for 2020-03 “Ongoing Issues with Winter Weather Severity Indices”, among other associated documents.
- Demonstration version of “RWIS LCCA Tool”.

Circumstance affecting project or budget: