

## 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.*

<b>Transportation Pooled Fund Program Project #</b> TPF-5 (435)		<b>Transportation Pooled Fund Program - Report Period:</b> X Quarter 1 (January 1 – March 31) Quarter 2 (April 1 – June 30) Quarter 3 (July 1 – September 30) Quarter 4 (October 4 – December 31)	
<b>Project Title:</b> Aurora Program – Addendum 731			
<b>Project Manager:</b> Tina Greenfield		<b>Phone:</b> 515-233-7746	<b>E-mail:</b> tina.greenfield@dot.iowa.gov
<b>Project Investigator:</b> Zach Hans		<b>Phone:</b> 515-294-8103	<b>E-mail:</b> zhans@iastate.edu
<b>Lead Agency Project ID:</b>	<b>Other Project ID (i.e., contract #):</b> Addendum 731	<b>Project Start Date:</b> January 1, 2020	
<b>Original Project End Date:</b> December 31, 2021	<b>Current Project End Date:</b> 12/31/2026	<b>Number of Extensions:</b>	

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
\$2,425,000	\$2,244,524	87%

Quarterly Project Statistics:

Total Project Expenses This Quarter	Total Amount of Funds Expended This Quarter	Percentage of Work Completed This Quarter
\$64,196	N/A	3%

## **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:

Reviewed financial details.

### Facilitate Meetings and Conference Calls:

2024-01 Roadway Friction Forecasting using Stationary and Mobile Friction Data

- None this quarter.

### Processing Travel Requests, Travel Reimbursements, and Meeting Expenses:

N/A

### Project-Specific Activities:

Addressed project invoices.

Reviewed and approved invoices and submitted to the Iowa DOT for payment.

Tracked project status and prepared a summary for recently completed and active projects.

Distributed reports to project teams and requested reports from researchers if/when not provided.

2022-10 Automating Variable Speed Limits Using Weather, Traffic, and Friction Data

- Upon request, shared the Aurora project team members with the Iowa DOT and CTC.

2023-04 Standardized Framework for Winter Weather Road Condition Indices

- Coordinate with the research team and publications regarding final report.
- Project report was finalized and accepted.
- Distributed project links to Aurora Board, FHWA, AASHTO and Clear Roads (upon request)
  - Project page: <https://www.intrans.iastate.edu/research/completed/standardized-framework-for-winter-weather-road-condition-indices/>
  - Report: [https://www.intrans.iastate.edu/wp-content/uploads/2026/03/standardized\\_framework\\_road\\_condition\\_indices\\_w\\_cvr.pdf](https://www.intrans.iastate.edu/wp-content/uploads/2026/03/standardized_framework_road_condition_indices_w_cvr.pdf)
  - T2 summary: [https://www.intrans.iastate.edu/wp-content/uploads/2026/03/standardized\\_framework\\_road\\_condition\\_indices\\_t2.pdf](https://www.intrans.iastate.edu/wp-content/uploads/2026/03/standardized_framework_road_condition_indices_t2.pdf)

2024-01 Roadway Friction Forecasting using Stationary and Mobile Friction Data

- Coordinated with the Iowa DOT regarding request from research team to bundle project deliverables.
- Distributed quarterly report.

## **Anticipated work next quarter:**

### Program Administrative Activities:

Manage budget.

### Facilitate Meetings and Conference Calls:

Have project update of “2023-04 Standardized Framework for Winter Weather Road Condition Indices” during the Spring Aurora Board meeting.

Processing Travel Requests, Travel Reimbursements, and Meeting Expenses:

N/A

Project-Specific Activities:

Track project status and timelines.

Request quarterly reports from research team.

Distribute project materials/updates to project team.

Maintain list of project champions and team members.

For current project, continue the following.

- Facilitate project activities as needed.
- Continue to receive and distribute project updates.
- Coordinate updates, if necessary.
- Review invoices.

2024-01 Roadway Friction Forecasting using Stationary and Mobile Friction Data [NCAR]

- Track project progress.
- Hold project update meeting during Spring Aurora Board meeting.

**Significant Results:**

- Published final report and tech transfer 2023-04.
- General project tracking, support and coordination of pertinent progress updates.

**Circumstance affecting project or budget:**

- None.