# TRANSPORTATION POOLED FUND PROGRAM
# QUARTERLY PROGRESS REPORT

Lead Agency (FHWA or State DOT): FHWA

**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 #** *(i.e, SPR-2(XXX), SPR-3(XXX) or TPF-5(XXX)* TPF-5(283) | | **Transportation Pooled Fund Program - Report Period:** ☑ Quarter 1 (January 1 – March 31) ☐ Quarter 2 (April 1 – June 30) ☐ Quarter 3 (July 1 – September 30) ☐ Quarter 4 (October 1 – December 31) |
|---|---|---|
| **Project Title:** Influence of Vehicular Live Loads on Bridge Perfromance | | |
| **Name of Project Manager(s):** Tom Saad, Fred Faridazar | **Phone Number:** 708.283.3521 | **E-Mail** thomas.saad@dot.gov |
| **Lead Agency Project ID:** | **Other Project ID (i.e., contract #):** | **Project Start Date:** January , 2013 |
| **Original Project End Date:** January, 2018 | **Current Project End Date:** | **Number of Extensions:** |

Project schedule status:

☑ On schedule ☐ On revised schedule ☐ Ahead of schedule ☐ Behind schedule

Overall Project Statistics:

| Total Project Budget | Total Cost to Date for Project | Percentage of Work Completed to Date |
|---|---|---|
| | | 19% |

***Quarterly*** Project Statistics:

| Total Project Expenses and Percentage This Quarter | Total Amount of Funds Expended This Quarter | Total Percentage of Time Used to Date |
|---|---|---|
| | | |

**Project Description**:

Collect research quality bridge loads and bridge response data to determine the effects of live loads on bridge performance, independent of all other influences on bridge component performance. Develop a comprehensive protocol for collecting research quality data, collect data at several locations across the country, maintain systems and store data in the LTBP Bridge Portal, and analyze data to quantify influences of live loading on bridge component performance.

Create 'national' truck loads/traffic database.

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

Literature Review:

• Revised Version 2.0 of the document to address FHWA and ETG member comments. Submitted newly revised Version 3.0 on February 2, 2015.

Document Questions:

• Contacted several states participating in pooled fund study to identify characteristics of existing WIM systems and their operation, usage and, data availability.

• Completed all state interviews.

  o Wisconsin interviewed on March 3, 2015

  o Georgia interviewed on March 25, 2015

• Initiated summary of all state interviews into a single document.

Parametric Studies / Alternative Data Collection Methodologies:

• Updated parametric study per ETG comments. Bridges from pooled fund states were grouped according to structure type and evaluated on the basis of NBI data. Conditions of deck, superstructure, substructure versus type of service on/under structure remains. Summary document describing the study and findings needs to be compiled.

• Draft parametric study document submitted on March 3, 2015.

• Bridge instrumentation plan development initiated with global requirements submitted to FHWA

Life Cycle Cost Analysis

• LCCA initiation

**Anticipated work next quarter**:

Site visit to Iowa DOT - inspect instrumented bridge site in Iowa.

Host face-to-face Super TAC meeting to critique bridge instrumentation and data collection plans.

**Significant Results:**

Completed interviews of pooled fund States to establish characteristics and uses of existing WIM systems in each State.

**Circumstance affecting project or budget. (Please 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).**

**Potential Implementation:**

Instrument first bridge in mid to late CY 2016.