

**State of Wisconsin/Department of Transportation**  
**RESEARCH PROGRESS REPORT FOR THE QUARTER ENDING: June 30, 2010**

<b>Program: SPR-0010(36) FFY99</b>	<b>Part: II Research and Development</b>
<b>Project Title:</b> Mississippi Valley Freight Coalition Pooled Fund <b>Administrative Contact:</b> Jason Bittner <b>WisDOT Technical Contact:</b> Sandy Beaupre <b>Approved by COR/Steering Committee:</b> \$950,000 <b>Project Investigator (agency &amp; contact):</b> Teresa Adams, Ph.D., Director, National Center for Freight and Infrastructure Research and Education (CFIRE), University of Wisconsin-Madison.	<b>Project ID:</b> TPF-5(156) <b>Sponsor:</b> MVFC Pooled Fund <b>Approved Starting Date:</b> 2/1/2007 <b>Approved Ending Date:</b> 1/31/2011

**Description:**

Total study budget	Expenditures for current quarter	Total Expenditures to date	Percent Complete
\$738,771	\$90,848	\$633,249	90%

**Progress This Quarter:**

(Includes project committee mtgs, work plan status, contract status, significant progress, etc.)

Pooled Fund Deliverables:

- A Regional Freight Transportation Workshop and Meetings
  - Complete
- A Logistics Course for the Public Sector
  - Complete
- The Development of Model Planning Approaches for Freight Transportation
  - Complete
- MVFC Expanded Truck Parking Facilities
  - Complete
- Assessment of Multimodal Freight Bottlenecks and Alleviation Strategies for the Upper Midwest Region
  - Complete, under final review post editing by PI. Will be delivered in July 2010
- Mississippi Valley Freight Information Clearinghouse
  - Complete
- 2008 MVFC Workshop and Meetings
  - Complete
- Develop Regional Recommendations for Reauthorization
  - Complete
- Transportation Profiles for MVFC Commodities
  - See associated QPR, **MVFC 10**
- Freight Performance Measures for Evaluating Multi-state projects
  - See associated QPR, **MVFC 11**
- Critical Sections For and Resiliency of Freight Corridors in the MVFC
  - **MVFC 12**, under contract in July 2010
- Annual Meeting
  - MVFC Annual meeting was held in April in Cincinnati, Ohio
- Website
  - MVFC Facilitator, Ernie Wittwer, and an in-house journalist have re-written the content of the MVFC and continued to edit the site, making it easier to navigate, remove clutter, and to bring more attention to the important news items.
  - The new MVFC website was rolled out in late January.
- Coalition Action Plan
  - The Coalition Action Plan consists of the scope of work for project initiatives. Project scopes were developed for twelve of the twelve projects. Additional project scopes from the 2008 – 2010 project cycle will continue to be developed.
- Meeting minutes of the Executive and Technical Committees and the MVTOC can be viewed at <http://www.mississippivalleyfreight.org/>.
  - MVFC Tech committee met on March 5<sup>th</sup> to provide updates on MVFC projects and to discuss the annual MVFC spring meeting upcoming in Kansas City, MO, in April 2009.
  - Mississippi Valley Traffic Operations Coalition met on March 4<sup>th</sup> to discuss current projects, the annual meeting, and also received updates from the N/W Passage and LMIGA.

- Other business:
  - Annual meeting was held April 27-29, 2010 in Cincinnati, OH. Staff worked with state representatives to complete meeting details, agenda, recruit speakers, and organize related activities.
    - Ernic Wittwer facilitated a business meeting during the final day of the even to discuss next steps and MVFC renewal
      - As a result of the business meeting, a draft workplan for FY11-12 was circulated to MVFC members for review and input
  - Workplan for FY11-12 will be presented at the MVC Executive Committee meeting in July

**Work Next Quarter:**

- MVFC Projects
  - Work will continue on the projects listed above with work being completed on MVFC 05, MVFC 10 and 11.
- Website
  - With the completion of the website redesign, some work will continue with fixing broken links and replacing lost links.
  - Outreach materials will be incorporated into the website, including interactive graphs and charts
- Coalition Action Plan
  - Will continue to carry out activities of the Coalition Action Plan.
- Committee Meetings
  - Plan to present FY2011 – 2012 work plan to MVC Executive Committee on July 8, 2010 for approval
    - Proceed as advised from Executive Committee input

**Circumstances affecting progress/budget:**

- None

# RESEARCH, DEVELOPMENT & TECHNOLOGY TRANSFER QUARTERLY PROGRESS REPORT

Wisconsin Department of Transportation  
DT1241 4/2010

**INSTRUCTIONS:**

Research project investigators and/or project managers should complete a quarterly progress report (QPR) for each calendar quarter during which the projects are active.

<b>WisDOT research program category:</b> <input type="checkbox"/> Policy research <input type="checkbox"/> Wisconsin Highway Research Program <input type="checkbox"/> Other <input checked="" type="checkbox"/> Pooled fund TPF# <b>TPF-5(156)</b>		Report period year: <b>2010</b> <input type="checkbox"/> Quarter 1 (Jan 1 – Mar 31) <input checked="" type="checkbox"/> Quarter 2 (Apr 1 – Jun 30) <input type="checkbox"/> Quarter 3 (Jul 1 – Sep 30) <input type="checkbox"/> Quarter 4 (Oct 1 – Dec 31)
Project title: <b>Transportation Profiles for MVFC Commodities</b>		
Project investigator: <b>Teresa Adams, University of Wisconsin - Madison</b>	Phone: <b>263-3175</b>	E-mail: <b>adams@engr.wisc.edu</b>
Administrative contact: <b>Greg Waidley</b>	Phone: <b>262-2013</b>	E-mail: <b>gwaidley@engr.wisc.edu</b>
WisDOT contact: <b>Sandy Beaupre</b>	Phone: <b>266-7575</b>	E-mail: <b>Sandra.beaupre@dot.state.wi.us</b>
WisDOT project ID: <b>MVFC 10</b>	Other project ID: <b>TRJ 3450830</b>	Project start date: <b>1/1/2009</b>
Original end date: <b>9/30/2011</b>	Current end date: <b>9/30/2011</b>	Number of extensions: <b>0</b>

**Project schedule status:**

On schedule                     
  On revised schedule                     
  Ahead of schedule                     
  Behind schedule

**Project budget status:**

Total Project Budget	Expenditures Current Quarter	Total Expenditures	% Funds Expended	% Work Completed
\$173,521.00	\$40,000.00	\$81,000.00	47%	85%

**Project description:**

This project will use alternative methods to develop information on the flow of commodities through the region. Part one will develop two commodities in depth with narratives and illustrations to demonstrate the importance of efficient transportation to the industry along with some of the issues that influence the decisions made by shippers and carriers as they move product. Part two will use the approach of disaggregating Freight Analysis Framework information and assigning the commodities to routes. Part three will develop a micro-simulations of commodities based on freight volume, economic activity and probabilities. Since this application will take it to new levels, only four commodities will be analyzed under this project. With successful demonstration, the technique might be expanded in future work.

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

Demonstrations were done of the FreightView application of the disaggregation portion of the project. Data from that effort was placed in the FreightView System. Work continued on the Taconite story. The simulation model is working with several of the commodities.

**Anticipated work next quarter:**

The project will be complete. The Taconite story will be done. a final report on the simulation will be written and guidance will be documented for the freightview access to the simulation. All will be incorporated into a final document.

**Circumstances affecting project or budget:**

Significant encumbrances are still on the books. The budget appears to be about right.

**Attach / insert Gantt chart and other project documentation**

FOR WISDOT USE ONLY

Staff receiving QPR:	Date received:
Staff approving QPR:	Date approved:

Year End

July 1, 2010

Gantt Chart:

Task/Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
<b>Team mtgs.</b>																				
<b>Part 1</b>																				
Research																				
Write stories																				
<b>Part 2</b>																				
Economic data																				
Production estimation																				
O-D estimation																				
Microsimulation																				
Final report																				
<b>Part 3</b>																				
Literature review																				
ID data sources																				
ID simulation																				
Dev probablistic																				
Dev simulation																				
Assemble data																				
Test concept																				
Document																				
<b>Summary</b>																				
<b>Report</b>																				

Red indicates changes from original schedule. We are slightly behind schedule, but will complete by September.

**State of Wisconsin/Department of Transportation**  
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<b>Program: SPR-0010(36) FFY99</b>	<b>Part: II Research and Development</b>
<b>Project Title:</b> Freight Performance Measures for Evaluating Multi-state projects	<b>Project ID:</b> MVFC-11
<b>Administrative Contact:</b> Jason Bittner	<b>Sponsor:</b> MVFC
<b>WisDOT Technical Contact:</b>	<b>Approved Starting Date:</b>
<b>Approved by COR/Steering Committee:</b>	<b>Approved Ending Date:</b> 9/30/11
<b>Project Investigator (agency &amp; contact):</b> Ernie Wittwer	

**Description:**

Total study budget	Expenditures for current quarter	Total Expenditures to date	Percent Complete
73,333	23,115	55,722	70%

**Progress This Quarter:**

(Includes project committee mtgs, work plan status, contract status, significant progress, etc.)  
 Met with University of Illinois-Chicago researchers to discuss data, information, and approach  
 Contacted Chicago MPO staff to gather information  
 Ongoing collaborations with Chicago MPO and CREATE consultant staff to gather information  
 Teleconference with I-70 Truck Only lane staff to discuss approach for regional performance measures

Continued activities from previous quarter, including:

- Literature review on a multitude of economic impact software tools (Mid Oct)
- Literature review on broad economic impact studies, mainly academic (Mid Oct)
- Briefed you on FHWA tools and findings from CREATE project documentation (Late Oct)
- Literature review on the major concepts of performance measurements (early Nov)
- Literature review on other performance measurement projects by state and federal transportation agencies (early Nov)
- \* Literature review of performance measures used to evaluate performance of transportation with a focus on freight performance. The primary freight performance measures identified are:
  - o Mobility: Average travel time; Average speed
  - o Reliability: Deviations from Average speed or travel time; Frequency of nonrecurring delays
  - o Economic: Benefit Cost Ratio; Freight contribution to GDP
  - o Safety: Freight-related crash rates; Insurance costs
  - o Environment: Emissions of different pollutants

\* Survey of important information pertaining to CREATE that can be used to measure the performance of freight-related investments as different projects under CREATE are implemented.

**Work Next Quarter:**

Allocate available data to maps  
 Continue to refine research and data sources. Consult with CREATE public and private sector experts.  
 Develop matrix/intelligent map to measure and allocate benefits to states  
 Conduct analysis for distributions of values weights between states  
 Draft final report and appendix sections

**Circumstances affecting progress/budget:**

None