

State of Wisconsin/Department of Transportation
RESEARCH PROGRESS REPORT FOR THE QUARTER ENDING: June 30, 2009

Program: SPR-0010(36) FFY99	Part: II Research and Development
Project Title: Transportation Profiles for MVFC Commodities	Project ID: MVFC 10
Administrative Contact: Jason Bittner	Sponsor: MVFC Pooled Fund
WisDOT Technical Contact: Sandy Beaupre	Approved Starting Date: Jan. 1, 2009
Approved by COR/Steering Committee: \$173,521	Approved Ending Date: Sept. 30, 2011
Project Investigator (agency & contact): Teresa Adams, University of Wisconsin - Madison	

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.

Major Tasks:

- Task 1: Review Literature
- Task 2: Identify Commodities
- Task 3: Identify Data Sources
- Task 4: Identify Microsimulation
- Task 5: Develop Probabilistic
- Task 6: Develop Microsimulation
- Task 7: Assemble Data
- Task 8: Test Concept
- Task 9: Subproject Report

Total study budget	Expenditures for current quarter	Total Expenditures to date	Percent Complete
\$173,521	0	0	50%

Progress This Quarter:

(Includes project committee mtgs, work plan status, contract status, significant progress, etc.)
 Contract was fully executed on August 6, 2009, though researchers were able to accommodate contract delays and make progress on each task.

Work Next Quarter:

Continued progress on each task and sub-task
 Draft deliverable for Supply Chain Case Study (Part 1A-Mark Vonderembse – University of Toledo) will be ready for review by September 30, 2009.
 All other parts are progressing as scheduled.

Circumstances affecting progress/budget:

Gantt Chart:

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