

State of Wisconsin/Department of Transportation
RESEARCH PROGRESS REPORT FOR THE QUARTER ENDING: March 31, 2009

Program: TPF-5(092)		FHWA Pooled Fund Research Program	
Project Title: Determining Effectiveness of Deicing Materials and Procedures			
Project ID: 0092-06-23			
Administrative Contact: Nikki Hatch		Sponsor: Clear Roads Pooled Fund	
WisDOT Technical Contact: Mike Sproul		Approved Starting Date: August 1, 2006	
Project Investigator (agency & contact): Ed Fleege		Approved Ending Date: February 28, 2009	

Expenditure Report

	Hours	Amount
Budgeted	609.0	\$51,126.00
Total expended to date	591.5	\$45,713.48
Percent completed	97.1%	89.4%
Expended for current quarter	63.0	\$4,725.00
Balance	17.5	\$5,412.52

Brief project description:

The overall objective of the research is to develop field testing procedures and guidelines for determining the effectiveness of various winter chemicals at various application rates.

The scope of the research is divided into three parts. Part 1 will be the development of an evaluation plan. This evaluation plan will be designed to test the effectiveness of any winter chemical in any winter weather condition. The plan will specify the minimum equipment and data needed to conduct such evaluations.

Part 2 will be the small pilot test on proposed I-94 segment near Alexandria, MN during the 2007 – 2008 winter in an effort to validate the evaluation plan that was developed in Part 1. A Mn/DOT snowplow truck with ground-speed controller will be available for this pilot test. Data collection forms will be developed and provided to record the necessary data from the snowplow truck operations.

Part 3 will be the final report that documents the findings and conclusions of this study. This report will include the testing guidelines and procedures that were developed along with the minimum equipment and data requirements, results of the pilot test, and recommendations for modifications to the testing procedures.

Progress this quarter (include specific tasks completed):

The research team worked on the second draft of the Final Report and submitted the draft to the panel for review and comments on March 3. Comments from the panel members were received on March 19 and 30.

The research team worked on re-writing the third version of Test and Evaluation Guidelines. The guidelines were submitted to the panel for review and comments on March 23.

Tasks planned for next quarter:

The research team plans to revise the draft of the Final Report by addressing the comments received from the panel. Also the team will prepare a hour PowePoint presentation.

Identify any outstanding issues and barriers

The one outstanding barrier to the completion of the project is the small number of man-hours remaining in the project. There are only 17.5 hours remaining. The research team has been asked to perform a number of re-writes on this project that has required a large number of hours.

CLEAR ROADS RESEARCH PROGRAM
WISCONSIN DEPARTMENT OF TRANSPORTATION

PROGRESS SCHEDULE

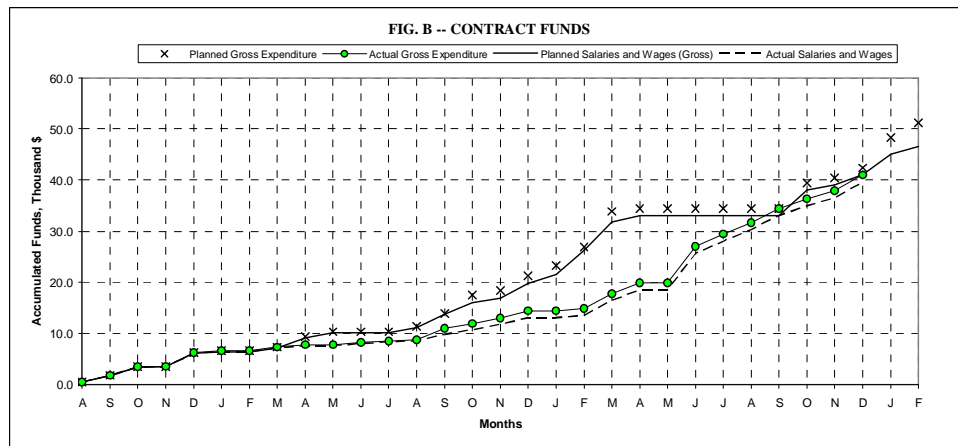
Project No. TPF - 5(092), Determining Effectiveness of Deicing Materials and Procedures
Research Agency Edward J. Fleege
Principal Investigator Edward J. Fleege

Year: 2008

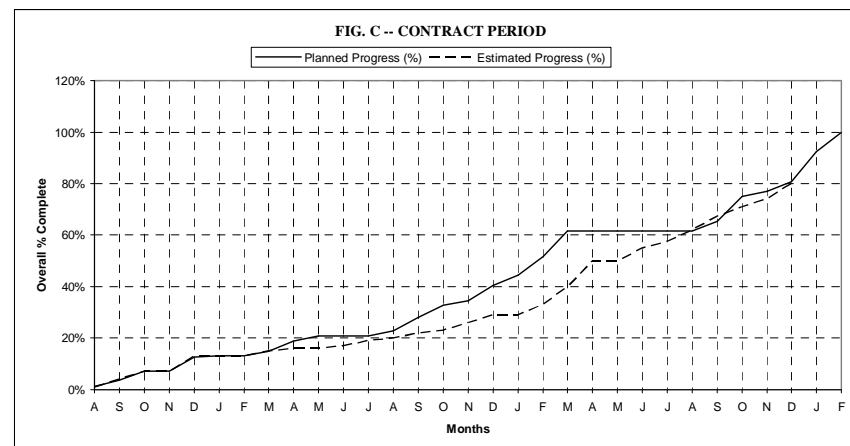
Quarter: Fourth

RESEARCH ACTIVITY	2006					2007													2008												2009		ESTIMATED % COMPLETION
	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F		
PART 1	3	12	22	23	41	42	42	47	60	67	67	67	73	90	100																		90
PART 2																6	12	31	44	67	100												99
PART 3																					10	30	72	78	78	100							70
OVERALL % COMPLETED	1%	4%	7%	7%	13%	13%	13%	15%	16%	16%	17%	19%	20%	22%	23%	26%	29%	29%	33%	40%	50%	50%	60%	64%	68%	70%							85

FIG. A -- OVERALL PROJECT SCHEDULE



Funds Expended	80%
Contract Amount	\$51,126
Expended This Quarter	\$6,600
Total Exp. to Date	\$40,988
Balance	\$10,138



Time Expended 93.7%
Starting Date: August 1, 2006
Completion Date: February 2009