

TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

June 30, 2012

Date: _____

Lead Agency (FHWA or State DOT): Iowa DOT

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 # TPF-5(207)	Transportation Pooled Fund Program - Report Period: Quarter 1 (January 1 – March 31, 2012) <input checked="" type="checkbox"/> Quarter 2 (April 1 – June 30) Quarter 3 (July 1 – September 30) Quarter 4 (October 1 – December 31)	
Project Title: The use of video feedback in novice 14½ year-old drivers: the million-mile study		
Name of Project Manager(s): Daniel V. McGehee	Phone Number: 319-335-6819	E-Mail daniel-mcgehee@uiowa.edu
Lead Agency Project ID: RT 1007	Other Project ID (i.e., contract #):	Project Start Date: 04/01/2009
Original Project End Date: 03/31/2013	Current Project End Date: 03/31/2013	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
\$180,000	\$170,800	92%

Quarterly Project Statistics:

Total Project Expenses and Percentage This Quarter	Total Amount of Funds Expended This Quarter	Total Percentage of Time Used to Date
	\$11,500	

Project Description:

This study is the third in a series of studies investigating the effect of providing newly-licensed teen drivers with video-based feedback. Video clips are captured by a DriveCam event recorder when the system is triggered by abrupt braking, acceleration or steering. During the feedback phase of the study, a weekly report is sent to the teen's parent(s). The report includes descriptions and videos of the events recorded for their teen during the previous week, how often their teen and his/her passengers were wearing seat belts, and a graph showing how the number of events for their teen compares to his or her peers. In addition, the event recorder provides immediate feedback to the teen in the form of a flashing light when it has been triggered. The first two studies investigating this kind of feedback, with cohorts of teen drivers from both rural Iowa and suburban Minneapolis, showed promising results. Teen drivers with a high incidence of safety-relevant events in the first 8 weeks of study before feedback began experienced an 89% and 64% reduction (rural and suburban, respectively) in the number of events with feedback.

Objective

The objective of the current study is to examine how age and experience interact with providing video feedback. This study involves three groups of teen drivers (30 participants in each group):

- (1) Teens age 14.5-15.5 with a school license
- (2) Teens age 16 who have an intermediate license and never held a school license
- (3) Teens age 16 who have an intermediate license and previously drove with a school license for at least 4 months.

Half the participants in each group will receive feedback beginning with the 5th week of the study. The other half is a control group (driving as they normally would) and does not receive any feedback. This allows us to compare the effect of the feedback to the natural maturation of new drivers as they gain driving experience.

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

Data collection continues. Estimate data collection completion in August 2012. Data reduction and analysis will be done in the fall 2012.

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As of June 30, 2012	Completed (n=88)		In-Process (n=2)		Total
	Feedback	Control	Feedback	Control	
School Group (School License)	15	15	1	1	32
Inexperienced Intermediate Group (Intermediate License)	14	14	0	0	28
Experienced Intermediate Group (School License before Intermediate License)	15	15	0	0	30
Total	44	44	1	1	90

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~7,100 events coded

Anticipated work next quarter:

Complete data collection ~ August 31, 2012.

Meetings

The Iowa DOT contacted TAC members by e-mail to gain concurrence on soliciting a proposal on an additional project that will examine distraction among the teens in this study. The research team will use the remaining \$20,000 to develop a more comprehensive driver distraction analysis to go with the crash data for this study. General concurrence was obtained from the TAC to proceed in this direction. The distraction analysis will be delivered March 30, 2013.

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).

On budget and ahead of schedule. Will deliver draft final report on or about December 31, 2012.

Potential Implementation:

Insurance companies could implement such an intervention or parents could subscribe individually.