UTC Project Information

Project Title	MPC-438 – Calibration of HSM Predictive Methods on Rural State and Local Highways
University	South Dakota State University
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Funding Agencies	USDOT, Research and Innovative Technology Administration
Agency ID or Contract Number	DTRT12-G-UTC08, Modification No. 1
Project Cost	$100,000
Start and End Dates	January 1, 2013 - December 31, 2013
Project Duration	1 Year
Brief Description of Research Project	The South Dakota Department of Transportation (SDDOT) has implemented Highway Safety Manual (HSM) guidelines in its project development and planning process. Specifically, HSM safety performance functions (SPFs) and crash modification factors (CMFs) are used to screen South Dakota (SD) roadways in order to find problem areas for further safety review. The SDDOT also uses HSM models to compare safety design alternatives, evaluate site-specific safety issues, and program and plan future safety projects. Although calibration procedures are available in HSM Appendix A, they need to be refined or modified to accommodate SD's data availability and roadway, traffic, and crash characteristics. It is imperative to develop a SD version of HSM models using proper calibration methods and to provide guidance for future calibration activities.
Describe Implementation of Research Outcomes (or why not implemented) Place Any Photos Here	The implementation recommendations have been detailed in the report.
Impacts/Benefits of Implementation (actual, not anticipated)	The appropriate and more accurate SPFs and CMFs will be used by the South Dakota Department of Transportation to screen South Dakota (SD) roadways to find problem areas for further safety review, to compare safety design alternatives, evaluate site-specific safety issues, and program and plan future safety projects.

Web Links
    • Reports
    • Project Website
	https://www.ugpti.org/resources/reports/details.php?id=992