UTC Project Information	
Project Title	MPC-474 – Highway Safety Manual Part D: Validation and Application in Wyoming
University	University of Wyoming
Principal Investigator	Mohamed M. Ahmed
PI Contact Information	Civil & Architectural Engineering University of Wyoming Phone: (307) 766-5550 Email: mahmed@uwyo.edu
Funding Agencies	USDOT, Research and Innovation Technology Administration
Agency ID or Contract Number	DTRT13-G-UTC38
Project Cost	$110,098
Start and End Dates	September 30, 2013 to September 30, 2018
Project Duration	September 30, 2013 to September 30, 2018
Brief Description of Research Project	The future of the HSM – Part D was discussed during the 2015 Transportation Research Board Annual Meeting. The Safety Performance Committee and its subcommittees discussed three options to propose to AASHTO; 1) keep and update Part D in the second edition of the HSM, 2) remove Part D and include a methodology section on how to calibrate state-specific CMFs, 3) remove Part D and maintain an updated CMFs on the CMF Clearing House. From the committee discussion, it is more likely that the second option will be elected. Not having a CMFs chapter in the new HSM edition emphasize the need of calibrating State-Specific Crash Modification Factors/ Functions for Wyoming. Moreover, the unique roadway characteristics and weather conditions in Wyoming urges a full calibration of CMFs for treatments of interest. The main objectives of this study are 1) to quantify the safety effectiveness of different countermeasures on different roadway types, intersection, crash type, and severity level, and 2) to validate and apply Crash Modification Factors/ Functions to the State of Wyoming.
Describe Implementation of Research Outcomes (or why not implemented) Place Any Photos Here	The findings from this study helped WYDOT to make a decision on not implementing passing lanes on a two-lane two-way highway. http://www.trb.org/main/blurbs/178518.aspx
Impacts/Benefits of Implementation (actual, not anticipated)	WYDOT has started utilizing the results from this study right away, the quantification of safety benefits of countermeasures is crucial to effectively allocate resources in Wyoming to reduce the frequency and severity of crashes.

Web Links • Reports • Project Website	https://www.ugpti.org/resources/reports/details.php?id=946