

METADATA TRANSMITTAL FORM

Title ¹	Mitigation Strategies to Reduce Truck Crash Rates on Wyoming Highways
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Description	Data includes crash data, citation data, traffic data, geometry data and enforcement data. Excel spreadsheet contains all these data.
Keywords	Wyoming; truck safety; traffic citations; highway patrol; and enforcement
Subject	Transportation Safety
Identifier ²	
Edition	Most recent date on which the dataset was changed, updated or modified.
Abstract	<p>Wyoming has one of the highest large truck crash rates in the country. This is due to a variety of reasons, which include: the significant amount of through truck traffic on I-80, adverse weather conditions, and the challenging geometric conditions. The main objective of this study is to develop mitigation strategies to reduce these high truck crash rates and provide recommendations to the agencies that can help enhancing truck-related safety. These agencies include: the Wyoming Highway Patrol (WHP), the Wyoming Department of Transportation (WYDOT), and the trucking industry in Wyoming.</p> <p>All interstates in Wyoming (I-80, I-25 and I-90 totaling 910 miles) and three state highways (US 26, US 30 and Wy 59 totaling 337 miles) were included in this study. A variety of datasets including: crash data, traffic volumes, traffic citations, roadway geometry and enforcement data were investigated. Various statistical modeling techniques were successfully implemented to identify factors behind truck-related crashes. A crash and citation hot spot analysis were conducted to develop a strategy to shift enforcement resources. In addition, an enforcement analysis were conducted to estimate the effectiveness of highway patrol resources by comparing the highway patrol personnel, budget and percent time patrolling from seven surrounded</p>

¹ To include alternate title; conference title; and journal title if they are different.

² To include record numbers; report numbers; NTIS number; TRIS Accession Number; OCLC Number; ISBN; ISSN; contract number; and DOI if available.

	<p>states of Wyoming. Finally, this study provided recommendations to the three different agencies mentioned above.</p> <p>The recommendations to WHP focused on where and when to provide more enforcement and which type of enforcement is more effective in reducing truck-related crashes. The recommendations to WYDOT included safety countermeasures to help reduce truck-related crashes. The recommendations to the trucking industry concentrated on information that should be included in the safety training to educate truck drivers in reducing truck-related crashes.</p>
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Format	.mxd, .csv, .pdf
Collection	Mitigation Strategies to Reduce Truck Crash Rates on Wyoming Highways
Related Documents	WYDOT Final Report “Mitigation Strategies to Reduce Truck Crash Rates on Wyoming Highways”
Data Organization	
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