

Task 1: Assemble Comprehensive List

Purpose

Assemble an initial comprehensive list of strategies associated with target crash type.

Description

Initial list of strategies MnDOT identified to reduce road departure crashes using the NCHRP 500 series.

Objectives	Strategies	Relative Cost to Implement and Operate	Effectiveness	Typical Timeframe for Implementation	Workshop Strategy
15.1 A -- Keep vehicles from encroaching on the roadside	15.1 A1 -- Install shoulder rumble strips	Low	Tried	Short	
	15.1 A2 -- Install edgelines "profile marking", edgeline rumble strips or modified shoulder rumble strips on section with narrow or no paved shoulders	Low	Experimental	Short	
	15.1 A3 -- Install midlane rumble strips	Low	Experimental	Short	
	15.1 A4 -- Provide enhanced shoulder or delineation and marking for sharp curves	Low	Tried / Proven	Short	
	15.1 A5 -- Provide improved highway geometry for horizontal curves	Moderate	Proven	Long	
	15.1 A6 -- Provide enhanced pavement markings	Low	Tried	Short	
	15.1 A7 -- Provide skid-resistance pavement surfaces	Moderate	Proven	Medium	
	15.1 A8 -- Apply shoulder treatments *Eliminate shoulder drop-offs *Shoulder wedge *Widen and/or pave shoulders	Low	Experimental Proven	Medium	
15.1 B -- Minimize the likelihood of crashing into an object or overturning if the vehicle travels off the shoulder	15.1 B1 -- Design safer slopes and ditches to prevent rollovers	Moderate	Proven	Medium	
	15.1 B2 -- Remove/relocate objects in hazardous locations	Moderate to High	Proven	Medium	
	15.1 B3 -- Delineate trees or utility poles with retroreflective tape	Low	Experimental	Short	
15.1 C -- Reduce the severity of the crash	15.1 C1 -- Improve design of roadside hardware	Moderate to High	Tried	Medium	
	15.1 C2 -- Improve design and application of barrier and attenuation systems	Moderate to High	Tried	Medium	

Source: NCHRP 500 Series

Short (<1 year)
Medium (1-2 years)
Long (>2 years)