

Task 3: Select Countermeasures for Deployment

Purpose

Identify and select a few strategies for each target crash type based on the evaluation of the strategies and consideration of agency priorities, practices and policies.

Description

MnDOT paired down the list of strategies identified in Task 1 to address road departure crashes based on the evaluation. The strategies provided below were selected to develop safety projects.

Objectives	Strategies	Relative Cost to Implement and Operate	Effectiveness	Typical Timeframe for Implementation
15.1 A -- Keep vehicles from encroaching on the roadside	15.1 A1 -- Install shoulder rumble strips	Low	Proven*	Short
	15.1 A2 -- Install enhanced pavement parkings, edgeline rumble strips or modified shoulder rumble strips on section with narrow or no paved shoulders	Low	Experimental/ Tried	Short
	15.1 A3 -- Install centerline rumble strips	Low	Proven*	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	High*	Proven	Long
	15.1 A8 -- Apply shoulder treatments *Eliminate shoulder drop-offs *Shoulder edge *Widen and/or pave shoulders	Moderate*	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 to High*	Proven	Medium
	15.1 B2 -- Remove/relocate objects in hazardous locations	Moderate to High	Proven	Medium

Source: NCHRP 500 Series (2003)

Short (<1 year)

Medium (1-2 years)

Long (>2 years)

Low (<\$10,000/mile)

Moderate (\$10,000-\$100,000/mile)

High (>\$100,000/mile)

*Updated by CH2M HILL