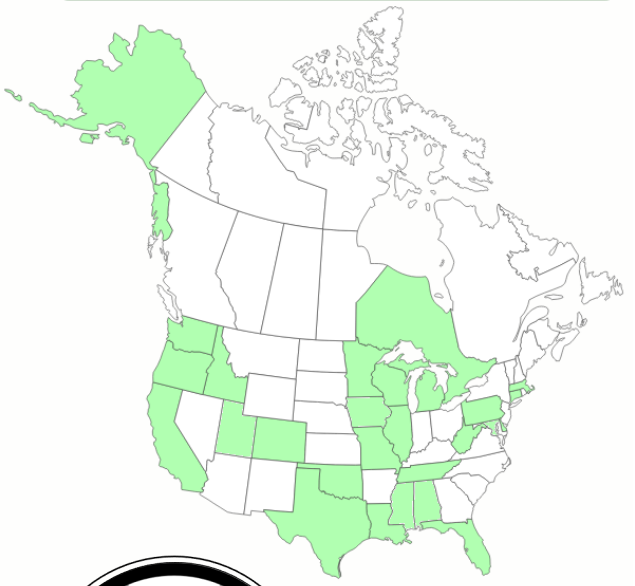
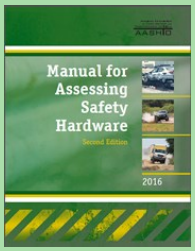
Roadside Safety Pooled Fund Program

The Roadside Safety Pooled Fund is a program to meet the research and functional needs of participating states in a cost-effective and timely manner.

OBJECTIVE: to provide a cooperative approach to conducting research on roadside safety hardware, leveraging the collective resources of member states. Emphasis is placed on assisting member DOTs with their implementation of MASH, as well as other roadside safety needs of common interest.



The Manual for Assessing Safety Hardware (MASH) supports consistent guidelines for crash testing permanent and temporary highway safety features and recommends test evaluation criteria.



The Pooled Fund maintains a running list of MASH roadside safety hardware tests known as the MASH database. It is regularly updated to reflect recent crash testing and research.

The group hosts a Fall meeting with representation from the member DOTs and FHWA to:

- Discuss important MASH implementation information
- Identify devices needing MASH testing
- Prioritize projects for the upcoming year

In preparation for the annual membership meeting, the Roadside Safety Pooled fund has developed methods for the communication of project information and testing needs. These methods include:

Webinars

Webinars are a mechanism periodically used to distribute updates related to on-going projects, testing results, and upcoming Pooled Fund meeting details. Webinar meetings offer members the opportunity to receive presentations, inquire about relevant information, and discuss pertinent topics.

Working Groups

Bridge Rails

Longitudinal Concrete Barriers

Breakaway Devices

Longitudinal Semi-Rigid Barriers

Work Zones

Working groups were established to:

- Facilitate discussion among members
- Identify common testing needs by hardware category
- Form partnerships among members to develop problem statements
- Prioritize project testing for the annual

Current Projects	Detailed Description of Work
Engineering Support Services	Provides engineering support services for the roadside safety hardware and barrier systems that are prioritized and requested by pooled fund member states. TTI researchers will provide professional evaluation and recommendations, as necessary to meet MASH standards. *Projects have been prioritized*
W-Beam Guardrail in Concrete Mow Strip	 Testing of 31" tall W-beam guardrail in concrete mow strip. Both steel and wood post options will be tested under MASH TL-3 criteria. *Testing phase complete*
MASH Coordination Effort	Assists the DOTs with coordination of information and testing activities related to MASH implementation program, produces tools to allow prioritization of hardware testing based on DOT's preferences. *Ongoing support work*
Pedestrian Rail Offset Requirements to Eliminate Vehicle Interaction	To determine the pedestrian rail offset requirements for 32" tall vertical slope and 36" single slope barriers. *Project is now underway*
MGS with Reduced Post Spacing	 Testing of a MGS systems with reduced post spacing for MASH compliance. *Testing phase of work continues*
Thrie/ W-Beam/Tubular Barrier Gap Rail for MASH TL-3	Design of a tubular barrier gap rail system for use on a 36" high single slope safety barrier. Thrie-beam, W-beam and tubular rail elements will be considered for the barrier rail design. The maximum open gap utilized will be 8'. *Project is now underway*
Guardrail on 1:1 Slope	 Development of MASH TL-3 compliant guardrail system meeting tests for installing standard strong-post W-beam guardrail with the face of the rail aligned with the break point of a 1H:1V slope. *Testing phase of work continues*
W-Beam Guardrail Terminals with Curbs	The objective of this project is to compile current literature and practices on W-beam guardrail terminals when located near a curb. *Awaiting task order*
Critical Flare Rate for TL-4 CIP 42" Concrete Barrier at Fixed Object	 Investigation of the critical flare rate and corresponding crashworthiness of a 42" tall single slope concrete median barrier flaring around a fixed object. *Project is now underway*
MASH TL-4 Concrete Median Barrier with Fence Mounted on Top	Investigation of the crashworthiness of a 36" tall concrete single slope median barrier with chain linked fence on top. Engineering analysis will aid in the selection of system details for testing. *Project is now underway*
Large Signs Slip base support on slope at MASH TL-3	Assessment of the crashworthiness of a large breakaway sign support on flat ground, investigates the utilized installation conditions for the system, determination of the most critical characteristics within this envelope of conditions. *Awaiting task order*
Flared MGS System for MASH Test Level 3	 Investigation of a flare for a MGS system to MASH TL-3 criteria. Engineering analysis will aid in the selection of the flare to be tested. *Testing phase of work continues*
Shorter TL-3 W-Beam Transition	To model and test shorter W-Beam transition systems *Awaiting task order*
Guardrail Evaluation on 6:1 Slope	To determine the critical offset for slope placement. *Project is now underway*