

**MONTANA DEPARTMENT OF TRANSPORTATION**  
**ACTIVE AND RECENTLY COMPLETED RESEARCH PROJECTS <sup>1</sup>**  
**November 16, 2018**

Problem Statement #	Project Title	Technical Panel (TP) Members	TP's Formed	Lit. Search	Action			% Complete (Time)
					TP	RRC	Research: MSU/UM/ Contractor	
N/A	<i>Traffic Safety Culture Pooled Fund Study</i> (There will be numerous projects underneath this pooled fund study.) <b>Projects 8882-309-01, 05, 07, 09:</b> MGMT Support <b>Project 8882-309-02:</b> Assessment of Traffic Safety Culture Related to Driving after Cannabis Use <b>Project 8882-309-03:</b> Assessment of Traffic Safety Culture: Exploring Traffic Safety Citizenship <b>Project 8882-309-04:</b> Traffic Safety Cultures and the Safe Systems Approach - Towards a Cultural Change Research and Innovation Agenda for Road Safety (TraSaCu) <b>Project 8882-309-06:</b> 2017 TRB Annual Meeting Travel <b>Project 8882-309-08:</b> Understanding Law Enforcement Attitudes and beliefs about Traffic Safety (Nic Ward)	Audrey Allums, Sue Sillick, Marcee Allen, Bob Seliskar, CA DOT, CT DOT, IA DOT, ID DOT, IL DOT, IN DOT, LA DOT, NH DOT, NV DOT, TX DOT, UT DOT, VT DOT, and WA DOT	Y	Y	Positive Recommendation	N/A	WTI 10/14-9/19 (60) 8882-309-04 6/15-9/19 (52) 8882-309-08 4/17-3/19 (24) 08882-309-09 11/17-10/18 (12)	<b>01:</b> 100 DONE <b>02:</b> 100 - DONE <b>03:</b> 100 - DONE <b>04:</b> 73 <b>05:</b> 100 DONE <b>06:</b> 100 DONE <b>07:</b> 100 DONE <b>08:</b> 67 <b>09:</b> 75
14-031	<i>MDT Wildlife Accommodation Process</i> (Kathy Harris)	Bill Semmens (Chair), Tom Martin, Shane Stack, Lesly Tribelhorn, Deb Wambach, Matt Collingwood, Nathan Haddick, Shane Stack, Heidy Bruner/FHWA, and Sue Sillick	Y	Y	Positive Recommendation	Approved 7/23/15	KLJ 5896 3/16 - 12/18 (34)	85
15-008	<i>Guidelines for Chemically Stabilizing Problematic Soils</i> (Bhaskar Chittoori)	Jeff Jackson (Chair), Jim Davies, Scott Helm, Darin Reynolds, John Sharkey, DJ Berg, Leslie White, Aaron Anderson, Jeff Patten/FHWA, and Will Kline	Y	N/A	Positive Recommendation	Approved 3/22/17	Boise State 9389-522 4/16 - 6/19 (39)	80
15-013	<i>Effective Production Rate Estimation and Monitoring of Controlling Activities Using Daily Work Report Data</i> (David Jeong)	Lisa Durbin (Chair), James Dunbar, Chris Hardan, Geno Liva, Chad Richards, Alan Woodmansey/FHWA, and Sue Sillick	Y	Y	Positive Recommendation	Approved 12/1/16	ISU 9344-504 1/17 - 8/18 (20)	95
15-015	<i>Regional Regression Equations Based on Channel-Width Characteristics to Estimate Peak-Flow Frequencies at Ungauged Sites Using Data Through Water Year 2011</i> (Kathy Chase)	Dave Hedstrom (Chair), Kurt Marcoux, Steve Story/DNRC, and Will Kline	Y	N/A	Positive Recommendation	Approved 12/18/16	USGS 9353-511 2/17 - 9/21 (56)	38
18-007	<i>Large-Scale Laboratory Testing of Geosynthetics in Roadway Applications</i> (Steve Perkins)	Darin Reynolds (Chair), Jim Davies, Scott Helm, Bill Henning, Jeff Jackson, Drew Sielbach/FHWA, and Will Kline	Y	Y	Positive Recommendation	Approved 1/24/18	MSU 9564-602 3/18-2/20 (24)	33
18-009	<i>Testing "Wildlife-Friendly" Fencing Modifications to Manage Wildlife and Livestock Movements</i> (Erin Landguth)	Larry Sickerson (Chair), Shane Mintz, Louise Stoner, Jerilee Weibel, Joe Weigand, Kam Wrigg, Heidy Bruner (FHWA), and Kirsten Seeber	Y	Y	Positive Recommendation	Approved 4/24/18	UM 9596-617 6/18-9/19 (16)	31
18-016	<i>Feasibility of Non-Proprietary Ultra-High Performance Concrete (UHPC) for Use in Highway Bridges in Montana - Phase 2: Field Application</i> (Mike Berry)	Lenci Kappes (Chair), Paul Bushnell, Bobbi deMontigny, Matt Needham, Jeff Olsen, Devin Roberts, Drew Sielbach/FHWA, and Kirsten Seeber	Y	Y	Positive Recommendation	Approved 2/23/18	MSU 9578-606 3/18-6/20 (28)	29

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18-017	<i>Concrete-Filled Steel Tube to Concrete Pile Cap Connections - Further Evaluation/Improvement of Analysis/Design Methodologies</i> (Mike Berry)	Lenci Kappes (Chair), Tyler Steffan, Drew Sielbach/FHEWA, Jim Scoles/MM, and Will Kline	Y	Y	Positive Recommendation	Approved 6/19/18	MSU 9630-628 6/18-8/19 (15)	33
18-018	<i>Alkali-Silica Reactivity in the State of Montana</i> (Mike Berry)	Paul Bushnell, Matt Needham, Matt Strizich, Jerry Bowser/Old Castle Materials, Ken Munski/Terracon, Leo Zwemke/Knife River, and Steve Morrival, and Will Kline	Y	Y	Positive Recommendation	Approved 2/23/18	MSU 9577-607 4/18-7/20 (28)	25
19-001	<i>Effectiveness of Highway Safety Public Education at Montana Motor Vehicle Division and Vehicle Registration Stations by Streaming a Variety of Safety Content</i>	Roy Peterson (Chair), Audrey Allums, Sky Schaefer/DOJ, Doug McBroom, Marcee Allen/FHWA and Kirsten Seeber	Y	Y	Met 8/31/18			
19-005	<i>Developing a Methodology for Safety Improvements on Low-Volume Roads in Montana</i>	Roy Peterson (Chair), Patricia Burke, Tasha King, Wayne Noem, Matt Ulberg, Marcee Allen/FHWA, and Will Kline	Y	Y	Met 8/20/18 & 11/5/18			
19-006	<i>Use of Fluorescent Orange Delineators in Temporary Traffic Control Work Zones</i>	Jim Wingerter (Chair), Paul Jagoda, Jeremy Wilde, Marcee Allen/FHWA, Jeff Patten/FHWA and Kirsten Seeber	Y	Y	Met 10/31/18			
19-011	<i>Monitoring Streamflow Using Video Cameras</i>	Dave Hedstrom (Chair), Annette Compton, KC Yahvah, Stephanie Brandenberger, Drew Sielbach/FHWA and Will Kline	Y	Y	Met 8/3/18			
19-015	<i>Concrete-Filled Steel Tube to Concrete Pile Cap Connections – Further Evaluation/Improvement of Analysis/Design Methodologies: Phase 2 Specimen Testing</i>	Lenci Kappes (Chair), Tyler Steffan, Drew Sielbach/FHWA, Jim Scoles, and Will Kline	Y	Y				
19-017	<i>Evaluation of Thin Polymer Overlays for Bridge Decks</i>	Chris Hardan (Chair), John Benda, Paul Bushnell, Drew Sielbach/FHWA, Matt Strizich/FHWA, and Will Kline	Y	Y	Met 8/2/18 & 10/10/18			
19-019	<i>Bridge Deck Cracking Evaluation</i>	Stephanie Brandenberger (Chair), Shane Pegram, Chris Hardan, Matt Needham, Paul Bushnell, Chad Mares, Drew Sielbach/FHWA, Matt Strizich/FHWA, and Will Kline	Y	Y	Met 9/6/18			

1. Projects which have been completed for six months are removed from this list in June and December. Click on [All Projects Listing](#) (below) to view all research projects.

[All Projects Listing](#)