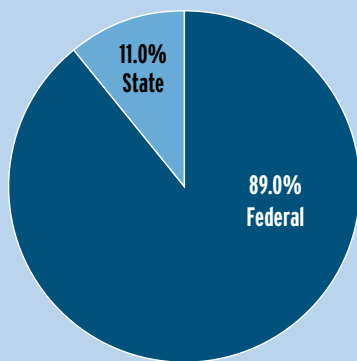


FY 2023 At-A-Glance

OCT. 1, 2022 - SEPT. 30, 2023

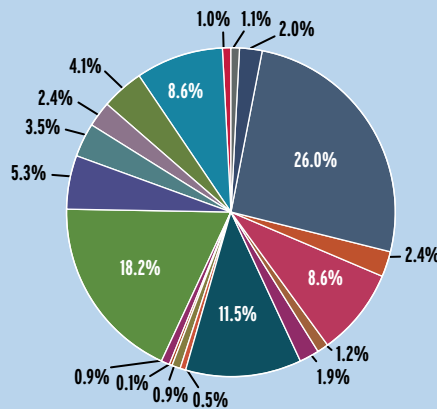
This publication presents a summary of Research and Library funding statistics and project progress for Fiscal Year (FY) 2023. The tables on pages 2 through 9 list all MDOT-funded research projects by topic area that were active or completed during 2023. These listings include both individual Michigan research projects and multi-state pooled fund projects.

FY 2023 SP&R Part II Expenditures by Funding Source



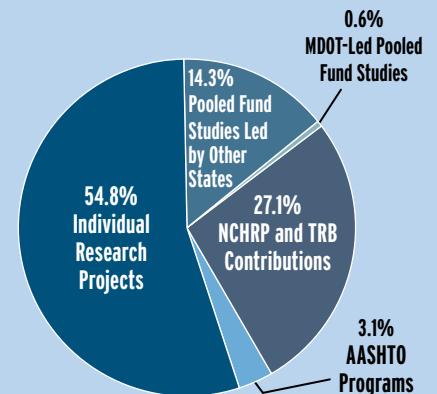
State Research Funds	\$682,739.47
Federal Research Funds	\$5,544,755.88
TOTAL	\$6,227,495.35

FY 2023 Research Project Expenditures by Focus Area



Administration	1.1%	\$46,679.25
Aviation	2.0%	\$85,822.91
Bridges and Structures	26.0%	\$1,127,335.73
Construction	2.4%	\$103,260.75
Environment and Water Resources	8.6%	\$371,527.40
Fleet Facility Management and Operations	1.2%	\$53,715.77
Geotechnical and Foundation Design	1.9%	\$81,440.75
Intelligent Transportation Systems and Signals	11.5%	\$498,143.16
Local Transit	0.5%	\$22,171.45
Mobility and Traffic Incidents	0.9%	\$38,317.41
Non-Motorized Planning and Development	0.1%	\$4,983.98
Passenger and Freight Rail	0.9%	\$37,770.86
Pavements and Materials	18.2%	\$792,102.40
Project Development	5.3%	\$230,111.55
Real Estate, Utilities and Permits	3.5%	\$153,817.95
Roadway and Roadside Maintenance	2.4%	\$103,536.34
Surveys and Automated Design	4.1%	\$176,181.33
Transportation Safety	8.6%	\$371,855.18
Travel Demand Forecasting	1.0%	\$43,523.18
TOTAL	100%	\$4,342,297.35

FY 2023 SP&R Part II Expenditures by Type



Individual Research Projects	\$3,413,697.35
Multi-State Pooled Fund Studies	\$928,600.00
> Participation in Pooled Fund Studies Led by Other States	\$893,600.00
> Participation in MDOT-Led Pooled Fund Studies	\$35,000.00
Research Project Expenditures	\$4,342,297.35
NCHRP and TRB Contributions	\$1,690,198.00
AASHTO Programs	\$195,000.00
TOTAL	\$6,227,495.35

MDOT 2023 Research

THESE TABLES ARE ORGANIZED BY FOCUS AREA:

RESEARCH PROJECTS:

- Completed research reports that were released in FY 2023: October 2022 to September 2023.
- Research contracts that were active during FY 2023.

POOLED FUND PROJECTS:

- Multi-state transportation pooled fund studies led by MDOT.
- Other multi-state transportation pooled fund studies in which MDOT participates, either through an FY 2023 contribution or through past contributions that are still producing value for Michigan.

ABBREVIATIONS:
FAM: Focus Area Manager
RM: Research Manager

Completed project reports are available at www.Michigan.gov/MDOTResearch.

A mark in the "Spotlight" column indicates that a Research Spotlight for this project can be found at www.Michigan.gov/MDOTResearch.

"# of Participating States" for some pooled funds includes Canadian provinces and agencies such as the Federal Highway Administration (FHWA).

Research Program Committee Structure is available at: [Research Program Committee Structure](#)

A complete FY 2023 annual report can be found at www.Michigan.gov/MDOTResearch.

Aviation										
FAM: Bryan Budds, RM: Mary Hoffmeyer										
Report Number	Title	Contractor	Investigator	Project Manager	Start Date	End Date	Total Budget	% Complete	FY 23 Expenditures	Spotlight
	Analysis and Deployment of an Unmanned Traffic Management System in Michigan - Phase 1 Feasibility Analysis	Airspace Link	Free	Smith	2/1/22	1/31/23	\$257,424.97	100%	\$0.00	
	Multimodal Aircraft Charging Station Deployment	C&S	Trendowski	Smith	2/15/23	8/31/24	\$221,837.88	35%	\$85,822.91	

Bridges and Structures										
FAMs: Brad Wagner and Mike Halloran, RM: Dean Kanitz										
Report Number	Title	Contractor	Investigator	Project Manager	Start Date	End Date	Total Budget	% Complete	FY 23 Expenditures	Spotlight
SPR-1698	Effects of Concrete Cure Time on Epoxy Overlay and Sealant Performance	WMU	Attanayake	Belcher	7/1/18	12/31/22	\$534,646.44	100%	\$54,040.71	X
SPR-1730	Repair of Bridge Deck Fascias	WSU	Menkulasi	Beatty	10/1/21	9/30/23	\$272,812.24	100%	\$128,432.83	X
	Electronic Water Level Sensors for Monitoring Scour Critical Structures	UM	Kerkez	Zwolinski	4/1/21	6/30/24	\$533,305.15	83%	\$258,011.19	
	Enhanced Bridge Cost Estimating	WSU	Eamon	Kelly	10/26/22	1/30/24	\$192,465.00	85%	\$158,865.66	
	Operational Baseline for the 2nd Avenue Network Arch Bridge	WMU	Attanayake	Pakala	1/1/22	5/31/24	\$276,587.71	72%	\$117,321.26	
	Capacity Prediction of Repaired and Unrepaired Bridge Beams with Deteriorated Ends	WMU	Attanayake	Tempison	5/25/22	9/30/24	\$380,430.69	36%	\$79,228.21	
	Influence of Revising CFCC Guaranteed Strength on Performance of CFCC Prestressed Highway Bridge Beams Subjected to Various Environmental Conditions	LTU	Grace	Kahl	10/1/21	9/30/24	\$487,832.56	28%	\$70,829.12	

Bridges and Structures, continued

FAMs: Brad Wagner and Mike Halloran, RM: Dean Kanitz

Report Number	Title	Contractor	Investigator	Project Manager	Start Date	End Date	Total Budget	% Complete	FY 23 Expenditures	Spotlight
	Improving MDOT's Movable Bridge Reliability and Operations	HDR	Longfield	Halloran	3/17/23	5/30/25	\$359,434.06	15%	\$46,947.00	
	Statewide Overall Carbon Fiber Composite Cable Bridge Monitoring	LTU	Grace	Kahl	12/17/13	9/30/25	\$1,169,711.17	62%	\$98,659.75	

Bridges and Structures Pooled Fund Studies

Study Number	Title	MDOT Project Manager	Lead State or Agency	# of Participating Partners	MI 2023 Expenditures	Expenditures Prior to 2023	Total MI Commitment	Start Date	End Date
TPF-5(372)	Building Information Modeling (BIM) for Bridges and Structures	Wagner	IA DOT	25	\$25,000.00	\$100,000.00	\$125,000.00	10/1/17	1/31/24
TPF-5(387)	Development of an Integrated Unmanned Aerial Systems (UAS) Validation Center	Zakrzewski	IN DOT	9	\$0.00	\$75,000.00	\$75,000.00	9/1/18	2/29/24
TPF-5(432)	Bridge Element Deterioration for Midwest States	Curtis	WI DOT	12	\$0.00	\$40,000.00	\$40,000.00	10/1/19	12/30/22
TPF-5(433)	Behavior of Reinforced and Unreinforced Lightweight Cellular Concrete for Retaining Walls	Tichenor	UT DOT	9	\$0.00	\$30,000.00	\$30,000.00	10/1/19	9/30/23
TPF-5(436)	Development of Criteria to Assess the Effects of Pack-out Corrosion in Built-up Steel Members	Nadjarian	IN DOT	6	\$0.00	\$80,000.00	\$120,000.00	10/1/19	9/30/24
TPF-5(468)	Structural Behavior of Ultra-High Performance Concrete	Wagner	FHWA	9	\$10,000.00	\$30,000.00	\$50,000.00	2/1/21	9/30/25
TPF-5(486)	Center for the Aging Infrastructure: Steel Bridge Research, Inspection, Training and Education Engineering Center - SBRITE (Continuation)	Curtis	IN DOT	18	\$30,000.00	\$30,000.00	\$210,000.00	10/1/21	9/30/26
TPF-5(508)	Concrete Bridge Engineering Institute (CBEI)	Liptak	TX DOT	13	\$50,000.00	\$50,000.00	\$200,000.00	10/1/22	9/30/26

Construction

FAM: Ken Koepke, RM: André Clover

Report Number	Title	Contractor	Investigator	Project Manager	Start Date	End Date	Total Budget	% Complete	FY 23 Expenditures	Spotlight
	Training Tools for Effective Advancement of Digital Technologies for Construction Field Operations	MSU	El-Gafy	Renner	2/1/20	10/31/22	\$206,280.18	67%	\$5,868.75	
	Evaluation of MDOT's Methodology for Estimating Work Zone User Delay Times	WMU	Oh	Hoffman	5/15/23	2/28/26	\$497,947.58	15%	\$72,392.00	

Construction Pooled Fund Study

Study Number	Title	MDOT Project Manager	Lead State or Agency	# of Participating Partners	MI 2023 Expenditures	Expenditures Prior to 2023	Total MI Commitment	Start Date	End Date
TPF-5(438)	Smart Work Zone Deployment Initiative (FY20-FY24)	Renner	IA DOT	9	\$25,000.00	\$75,000.00	\$125,000.00	10/1/19	12/31/25

Environment and Water Resources

FAM: Hal Zweng, RM: Dean Kanitz

Report Number	Title	Contractor	Investigator	Project Manager	Start Date	End Date	Total Budget	% Complete	FY 23 Expenditures	Spotlight
	Eastern Massasauga (<i>Sistrurus catenatus</i>) Road Ecology and Population Dynamics in Michigan	MSU	Roloff	Grabarkiewicz	11/25/19	8/31/23	\$366,868.57	80%	\$52,081.32	
	Michigan Hydrologic Calculation Procedures	MTU	Watkins	Carlson	11/1/21	12/31/24	\$607,935.71	52%	\$183,846.08	

Environment and Water Resources Pooled Fund Studies

Study Number	Title	MDOT Project Manager	Lead State or Agency	# of Participating Partners	MI 2023 Expenditures	Expenditures Prior to 2023	Total MI Commitment	Start Date	End Date
TPF-5(358)	Wildlife Vehicle Collision Reduction and Habitat Connectivity	Novak	NV DOT	14	\$0.00	\$80,000.00	\$80,000.00	10/1/19	9/30/22
TPF-5(446)	High Performance Computational Fluid Dynamics (CFD) Modeling Services for Highway Hydraulics	Carlson	FHWA	4	\$80,000.00	\$0.00	\$80,000.00	10/1/22	9/30/25
TPF-5(460)	Flood-Frequency Analysis in the Midwest: Addressing Potential Nonstationary Annual Peak-Flow Records	Carlson	SD DOT	8	\$55,600.00	\$55,600.00	\$166,800.00	10/1/21	9/30/24

Fleet Facility Management & Operations

FAM: Diane Sevigny, RM: André Clover

Report Number	Title	Contractor	Investigator	Project Manager	Start Date	End Date	Total Budget	% Complete	FY 23 Expenditures	Spotlight
	MDOT Fleet Electrification Strategies	Hatch	Bodarya	Sevigny	6/21/23	2/28/25	\$241,889.86	25%	\$53,715.77	

Freight Logistics and Maritime Pooled Fund Study

Study Number	Title	MDOT Project Manager	Lead State or Agency	# of Participating Partners	MI 2023 Expenditures	Expenditures Prior to 2023	Total MI Commitment	Start Date	End Date
TPF-5(396)	Mid-America Freight Coalition (MAFC) Phase 3	Wulff	WI DOT	10	\$0.00	\$148,000.00	\$148,000.00	2/1/19	3/31/23

Geotechnical and Foundation Design

FAM: Ryan Snook, RM: Dean Kanitz

Report Number	Title	Contractor	Investigator	Project Manager	Start Date	End Date	Total Budget	% Complete	FY 23 Expenditures	Spotlight
	Michigan Cone Penetrometer Test Calibration	UM	Hryciw, Garcia	Snook	1/1/22	11/30/24	\$517,826.52	27%	\$81,440.75	

Intelligent Transportation Systems and Signals					FAM: Jason Bodell, RM: André Clover					
Report Number	Title	Contractor	Investigator	Project Manager	Start Date	End Date	Total Budget	% Complete	FY 23 Expenditures	Spotlight
	Effective Bridge Deck Weather Warning Technologies	MSU	Gates	Smith	2/15/21	12/31/23	\$355,167.11	85%	\$275,060.99	
	Utilizing Video Analytics w/Connected Vehicles for Improved Safety	Kimley-Horne	Good	Mueller	2/15/21	1/31/24	\$464,662.20	50%	\$88,082.17	
	TRB Forum on Preparing for Automated Vehicles and Shared Mobility (AV/SM Forum)	TRB	N/A	Clover	4/28/23	9/30/25	\$25,000.00	30%	\$25,000.00	

Intelligent Transportation Systems and Signals Pooled Fund Studies

Study Number	Title	MDOT Project Manager	Lead State or Agency	# of Participating Partners	MI 2023 Expenditures	Expenditures Prior to 2023	Total MI Commitment	Start Date	End Date
Sol. 1598	MAASTO Connected Automated Vehicle (CAV) Steering Committee	Feldpausch	MI DOT	9	\$0.00	\$0.00	\$150,000.00	10/1/23	9/30/28
TPF-5(389)	Connected Vehicle Pooled Fund Study	Castle	VA DOT	27	\$0.00	\$100,000.00	\$100,000.00	10/1/19	9/30/24
TPF-5(453)	Automated Vehicle Pooled Fund Study	Feldpausch	OH DOT	9	\$50,000.00	\$100,000.00	\$250,000.00	10/1/20	9/30/25
TPF-5(487)	Transportation Management Centers Pooled Fund Study Phase II	Peplinski	FHWA	23	\$250,000.00	\$0.00	\$125,000.00	4/17/22	4/16/27
TPF-5(490)	ENTERPRISE - PHASE III (Phase II Continuation)	Feldpausch	MI DOT	8	\$35,000.00	\$35,000.00	\$175,000.00	10/15/22	9/30/27

Local Transit

FAM: Janet Geissler, RM: Mary Hoffmeyer

Report Number	Title	Contractor	Investigator	Project Manager	Start Date	End Date	Total Budget	% Complete	FY 23 Expenditures	Spotlight
SPR-1727	<u>Determining State and Federal Transportation Responsibilities to Residents on Islands</u>	MSU	Zockaie	Shultz	1/15/21	4/30/23	\$160,573.35	100%	\$22,171.45	X

Mobility and Traffic Incidents

FAM: Jason Firman, RM: André Clover

Report Number	Title	Contractor	Investigator	Project Manager	Start Date	End Date	Total Budget	% Complete	FY 23 Expenditures	Spotlight
	Optimizing Work Zone Conditions to Maximize Safety and Mobility	MSU	Gates	Brink	6/1/23	5/31/25	\$219,727.94	5%	\$8,123.61	
	Identify Best Locations for New Flex-Route Projects Throughout the State of Michigan	MSU	Savolainen	Firman	6/14/23	6/13/25	\$325,050.01	8%	\$5,193.80	

Mobility and Traffic Incidents Pooled Fund Study

Study Number	Title	MDOT Project Manager	Lead State or Agency	# of Participating Partners	MI 2023 Expenditures	Expenditures Prior to 2023	Total MI Commitment	Start Date	End Date
TPF-5(489)	Safety Service Patrol Standardization and Management Practices	Gill	FHWA	20	\$25,000.00	\$25,000.00	\$100,000.00	10/1/21	9/30/25

Nonmotorized Planning and Development

FAM: Deb Alfonso, RM: Mary Hoffmeyer

Report Number	Title	Contractor	Investigator	Project Manager	Start Date	End Date	Total Budget	% Complete	FY 23 Expenditures	Spotlight
	Leveraging Crowd-Sourced Data in Planning, Design, Analysis, and Evaluation of Pedestrian and Bicycle Traffic	UC-Denver	Misra	DeBruyn	6/21/23	8/31/24	\$337,141.98	55%	\$4,983.98	

Passenger and Freight Rail

FAM: Sara Moore, RM: Mary Hoffmeyer

Report Number	Title	Contractor	Investigator	Project Manager	Start Date	End Date	Total Budget	% Complete	FY 23 Expenditures	Spotlight
SPR-1721	Safety Enhancements at Short-Storage-Space Railroad Crossings	Texas A&M	Das	Johnson	1/1/20	12/31/22	\$106,642.26	100%	\$37,770.86	X

Pavements and Materials

FAM: Chris Byrum, RM: André Clover

Report Number	Title	Contractor	Investigator	Project Manager	Start Date	End Date	Total Budget	% Complete	FY 23 Expenditures	Spotlight
SPR-1720	Quantifying the Impact of Super Single (Wide Base) Tires on Pavement Damage in Michigan	MTU	You	Schenkel	3/15/21	12/31/22	\$277,435.40	94%	\$57,814.31	X
SPR-1733	Establish Policies and Procedures for Use of Subgrade Stabilization in Michigan	LTU	Bandara	Eacker	10/1/21	3/31/23	\$202,968.38	100%	\$115,852.34	
OR19-081	Evaluation of MDOT's Long-Life Pilot Projects	MSU	Kutay	Eacker	10/25/19	4/30/23	\$418,912.98	98%	\$20,478.75	X
	Characterizing Initial Roughness and Material Properties for Pavement-ME Analysis and Design in Michigan	MSU	Haider	Schenkel	1/21/20	9/30/23	\$541,344.29	100%	\$87,691.78	
	Evaluation of MDOT's Methodologies for both Quantifying Pavement Distress & Modeling Pavement Performance for LCC and RSL Estimation Purposes	MSU	Kutay	Eacker	2/2/21	9/30/23	\$595,031.80	86%	\$202,076.72	
	Pavement ME Rehabilitation Design Protocols for MDOT Implementation	MSU	Haider	Schenkel	7/12/23	7/12/25	\$474,600.82	9%	\$41,188.50	

Pavements and Materials Pooled Fund Studies

Study Number	Title	MDOT Project Manager	Lead State or Agency	# of Participating Partners	MI 2023 Expenditures	Expenditures Prior to 2023	Total MI Commitment	Start Date	End Date
TFP-5(305)	Regional and National Implementation and Coordination of Mechanistic-Empirical (ME) Design	Schenkel	FHWA	24	\$0.00	\$20,000.00	\$20,000.00	10/1/16	9/30/23
TPF-5(320)	Base Funding for the North Central Superpave Center	Kennedy	IN DOT	7	\$0.00	\$150,000.00	\$150,000.00	2/3/15	9/30/22

Pavements and Materials Pooled Fund Studies, continued

Study Number	Title	MDOT Project Manager	Lead State or Agency	# of Participating Partners	MI 2023 Expenditures	Expenditures Prior to 2023	Total MI Commitment	Start Date	End Date
TPF-5(341)	National Road Research Alliance (NRRRA)	Kennedy	MN DOT	8	\$0.00	\$750,000.00	\$750,000.00	2/22/16	9/30/22
TPF-5(368)	Performance Engineered Concrete Paving Mixtures	Kennedy	IA DOT	20	\$0.00	\$75,000.00	\$75,000.00	1/1/17	12/31/22
TPF-5(374)	Accelerated Performance Testing on the 2018 NCAT Pavement Test Track with MnRoad Research Partnership	Kennedy	FHWA	19	\$0.00	\$300,000.00	\$300,000.00	10/1/20	9/30/22
TPF-5(375)	National Partnership to Determine the Life-Extending Benefit Curves of Pavement Techniques (MnROAD/NCAT Joint Study - Phase II)	Kennedy	MN DOT	23	\$50,000.00	\$200,000.00	\$250,000.00	1/1/19	12/30/23
TPF-5(385)	Pavement Structural Evaluation with Traffic Speed Deflection Devices (TSDDs)	Shapter	VA DOT	28	\$45,000.00	\$215,000.00	\$260,000.00	3/1/19	10/31/23
TPF-5(437)	Technology Transfer Concrete Consortium (FY20-FY24)	Kennedy	IA DOT	36	\$12,000.00	\$36,000.00	\$60,000.00	10/1/19	12/31/25
TPF-5(465)	Consortium for Asphalt Pavement Research and Implementation (CAPRI)	Kennedy	AL DOT	30	\$10,000.00	\$0.00	\$30,000.00	10/1/22	9/30/25
TPF-5(466)	National Road Research Alliance - NRRRA (Phase-II)	Kennedy	MN DOT	15	\$150,000.00	\$300,000.00	\$750,000.00	10/1/20	1/31/26
TPF-5(517)	Performance Centered Concrete Construction	Bahmer	IA DOT	10	\$0.00	\$0.00	\$100,000.00	10/1/22	9/30/27

Project Development

FAM: Nathan Miller, RM: Dean Kanitz

Report Number	Title	Contractor	Investigator	Project Manager	Start Date	End Date	Total Budget	% Complete	FY 23 Expenditures	Spotlight
SPR-1736	<u>Corridor and Systemwide Application of Performance Based Practical Design</u>	WSP	Wendling	Miller	2/1/21	1/31/24	\$269,745.08	87%	\$90,843.90	
	Improving Cost Estimation and Budget Planning with New Michigan Highway Construction Cost Index	WMU	Liu	Kirkpatrick	6/1/23	12/31/24	\$116,284.36	31%	\$50,946.23	
SPR-1701	<u>Slope Restoration on Urban Freeways</u>	MSU	Cregg	Alton	4/1/17	12/31/25	\$519,732.24	90%	\$23,321.42	X
	Socio Economic Impacts of Technology Based Stakeholder Engagement Platforms	MSU	Savolainen	Martin	8/21/23	8/20/26	\$358,967.92	3%	\$0.00	

Project Development Pooled Fund Study

Study Number	Title	MDOT Project Manager	Lead State or Agency	# of Participating Partners	MI 2023 Expenditures	Expenditures Prior to 2023	Total MI Commitment	Start Date	End Date
TFP-5(495)	2023 Technology Exchange on Low Volume Road Design, Construction and Maintenance	Leix	IA DOT	9	\$0.00	\$12,000.00	\$12,000.00	9/1/21	9/30/23
TFP-5(501)	Roadside Safety Pooled Fund - Phase 3	Torres	WS DOT	28	\$65,000.00	\$0.00	\$195,000.00	1/1/23	9/30/25

Real Estate and Permits

FAM: Larry Doyle, RM: Dean Kanitz

Report Number	Title	Contractor	Investigator	Project Manager	Start Date	End Date	Total Budget	% Complete	FY 23 Expenditures	Spotlight
SPR-1724	<u>Right of Way Mapping Conversion to GIS</u>	MSU	Bunting	Fitch	2/1/21	4/30/23	\$386,927.00	89%	\$153,817.95	X

Roadway and Roadside Maintenance					FAM: Justin Droste, RM: André Clover					
Report Number	Title	Contractor	Investigator	Project Manager	Start Date	End Date	Total Budget	% Complete	FY 23 Expenditures	Spotlight
	Winter Severity Index with Winter Maintenance Expenses and Material Usage	MSU	Zockaie	Roath	2/6/23	2/5/25	\$226,250.61	26%	\$43,536.34	

Roadway and Roadside Maintenance Pooled Fund Studies

Study Number	Title	MDOT Project Manager	Lead State or Agency	# of Participating Partners	MI 2023 Expenditures	Expenditures Prior to 2023	Total MI Commitment	Start Date	End Date
Sol. 1562	Development of a Winter Maintenance Decision Support System (Phase 3)	Croze	SD DOT	6	\$0.00	\$0.00	\$90,000.00	1/2/22	9/30/25
TPF-5(347)	Development of Maintenance Decision Support System	Roath	SD DOT	15	\$0.00	\$170,000.00	\$170,000.00	10/1/16	9/30/23
TPF-5(353)	Clear Roads Winter Highway Operations Pooled Fund - Phase II	Droste	MN DOT	36	\$0.00	\$125,000.00	\$125,000.00	10/1/16	6/30/23
TPF-5(435)	Aurora Program (FY20-FY24)	Roath	IA DOT	19	\$25,000.00	\$75,000.00	\$125,000.00	10/1/19	12/31/24
TPF-5(441)	No Boundaries Transportation Maintenance Innovations	Pratt	CO DOT	19	\$10,000.00	\$30,000.00	\$50,000.00	10/1/19	9/30/24
TPF-5(479)	Clear Roads Winter Highway Operations Pooled Fund - Phase III	Droste	MN DOT	39	\$25,000.00	\$25,000.00	\$125,000.00	5/1/22	9/30/24

Surveys and Automated Design					FAMs: Andrew Block and Brian Fish, RM: Dean Kanitz					
Report Number	Title	Contractor	Investigator	Project Manager	Start Date	End Date	Total Budget	% Complete	FY 23 Expenditures	Spotlight
	Construction Digital Delivery Technologies	CRAFT	Ketterl	Bowerman	12/9/22	6/30/24	\$210,637.52	70%	\$146,181.33	

Surveys and Automated Design Pooled Fund Study

Study Number	Title	MDOT Project Manager	Lead State or Agency	# of Participating Partners	MI 2023 Expenditures	Expenditures Prior to 2023	Total MI Commitment	Start Date	End Date
TPF-5(480)	Building Information Modeling (BIM) for Infrastructure	Arnold	IA DOT	21	\$30,000.00	\$60,000.00	\$150,000.00	7/1/21	9/30/25

Transportation Safety					FAM: Garrett Dawe, RM: André Clover					
Report Number	Title	Contractor	Investigator	Project Manager	Start Date	End Date	Total Budget	% Complete	FY 23 Expenditures	Spotlight
SPR-1725	Evaluating the Performance & Safety Effectiveness of Roundabouts - An Update	MSU	Savolainen	Ealy	3/1/21	4/30/23	\$252,499.99	99%	\$113,189.67	X
SPR-1734	Effective Pedestrian\Non-Motorized Crossing Enhancements along Higher Speed Corridors	WMU	Van Houten	Bott	1/1/21	11/1/23	\$163,913.30	100%	\$110,332.70	X
	Efficacy of Speed Warning Technologies	MSU	Gates	Uzcategui	1/23/23	2/15/25	\$255,632.95	30%	\$11,601.95	
	Examination of Lighting Practices at Crosswalks	WMU	Van Houten	Smerdon	4/24/23	1/31/25	\$183,438.15	25%	\$40,730.86	

Transportation Safety Pooled Fund Studies

Study Number	Title	MDOT Project Manager	Lead State or Agency	# of Participating Partners	MI 2023 Expenditures	Expenditures Prior to 2023	Total MI Commitment	Start Date	End Date
TPF-5(255)	Highway Safety Manual Implementation	Dawe	FHWA	23	\$0.00	\$100,000.00	\$100,000.00	11/9/15	12/31/23
TPF-5(317)	Evaluation of Low-Cost Safety Improvements	Dawe	FHWA	42	\$50,000.00	\$40,000.00	\$90,000.00	10/1/19	9/30/24
TPF-5(343)	Roadside Safety Research for MASH Implementation	Torres	WS DOT	28	\$0.00	\$270,000.00	\$320,000.00	10/1/16	12/31/23
TPF-5(444)	Traffic Safety Culture - Phase 2	Bott	MT DOT	20	\$10,000.00	\$30,000.00	\$50,000.00	10/1/19	9/30/24
TPF-5(447)	Traffic Control Device (TCD) Consortium (3)	Bott	FHWA	36	\$20,000.00	\$40,000.00	\$100,000.00	1/1/21	2/28/25
TPF-5(516)	Highway Safety Manual Implementation 2nd Edition (HSM2) Implementation	Dawe	FHWA	18	\$16,000.00	\$0.00	\$80,000.00	10/1/22	9/30/27

Travel Demand Forecasting

FAM: Karen Faussett, RM: Mary Hoffmeyer

Report Number	Title	Contractor	Investigator	Project Manager	Start Date	End Date	Total Budget	% Complete	FY 23 Expenditures	Spotlight
SPR-1716	Assessing System Performance of the Michigan Trunkline Measures and Analytical Procedures for Planning and Operations	MSU	Zockaie	Maffeo	8/1/20	12/31/22	\$180,204.74	100%	\$43,523.18	X

Administration

Report Number	Title	Contractor	Investigator	Project Manager	Start Date	End Date	Total Budget	% Complete	FY 23 Expenditures	Spotlight
	Research Administration Section Planning and Communications	CTC	Casey	Hoffmeyer	10/1/20	9/30/25	\$492,314.72	50%	\$46,679.25	

National Initiatives

Study Number	Title	MDOT Project Manager	Lead State or Agency	# of Participating Partners	MI 2023 Expenditures	Expenditures Prior to 2023	Total MI Commitment	Start Date	End Date
SPR1801(179)	AASHTO Engineering Technical Service Programs	Clover	AASHTO/ FHWA	N/A	\$195,000.00	\$165,000.00	\$195,000.00	10/1/22	9/30/23
TPF-5(423)	National Cooperative Highway Research Program (NCHRP) for FY 2023	Clover	FHWA	51	\$1,463,324.00	\$0.00	\$1,463,324.00	10/1/22	9/30/23
TPF-5(511)	TRB Core Program Activities FFY 2023 (TRB FY 2024)	Clover	AASHTO/ FHWA	29	\$226,874.00	\$0.00	\$226,874.00	10/1/22	9/30/23

The Research Administration Team



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MISSION

Supporting and promoting innovative research and encouraging its implementation for safe, sustainable and cost-effective transportation solutions that keep Michigan moving

VALUES

Quality • Customer Orientation
Teamwork • Integrity • Pride

RESEARCH SERVICES STATISTICS (FY 2023)

4 Amendments

11 Closed individual research projects

15 New individual research projects

44 Individual research projects

47 Pooled fund studies and other national research initiatives

LIBRARY SERVICES STATISTICS (FY 2023)

1,689
Virtual visitors

16,425
Total circulation

102
New materials

603
Reference services

204
Library loans

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