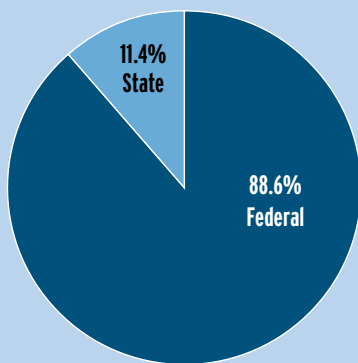


FY 2022 At-A-Glance

OCT. 1, 2021 - SEPT. 30, 2022

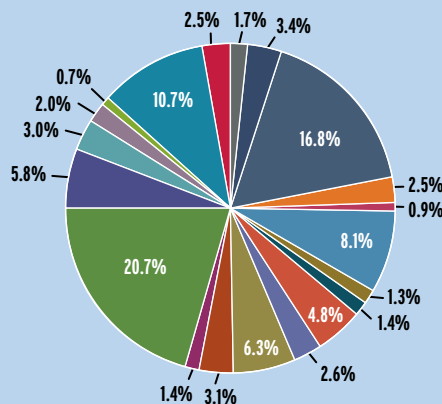
This publication presents a summary of Research and Library funding statistics and project progress for Fiscal Year (FY) 2022. The tables on pages 2 through 9 list all MDOT-funded research projects by topic area that were active or completed during 2022. These listings include both individual Michigan research projects and multi-state pooled fund projects.

FY 2022 SP&R Part II Expenditures by Funding Source



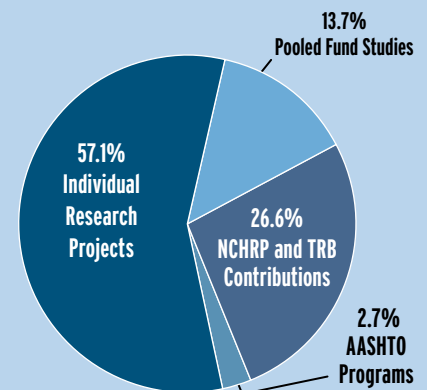
State Research Funds	\$710,518.73
Federal Research Funds	\$5,515,324.92
TOTAL	\$6,225,843.65

FY 2022 Research Project Expenditures by Focus Area



Administration	1.7%	\$76,462.94
Aviation	3.4%	\$150,000.00
Bridges and Structures	16.8%	\$738,923.11
Construction	2.5%	\$108,844.08
Contract Administration	0.9%	\$41,644.95
Environment and Water Resources	8.1%	\$358,712.29
Geotechnical and Foundation Design	1.3%	\$57,819.00
Innovative Contracting	1.4%	\$60,902.83
Intelligent Transportation Systems and Signals	4.8%	\$211,990.73
Local Transit	2.6%	\$116,114.58
Mobility and Traffic Incidents	6.3%	\$278,831.00
Nonmotorized Planning and Development	3.1%	\$138,576.36
Passenger and Freight Rail	1.4%	\$62,935.38
Pavements and Materials	20.7%	\$912,510.24
Project Development	5.8%	\$255,616.37
Real Estate, Utilities and Permits	3.0%	\$132,511.15
Roadway and Roadside Maintenance	2.0%	\$90,000.00
Surveys and Automated Design	0.7%	\$30,000.00
Transportation Safety	10.7%	\$472,230.41
Travel Demand Forecasting	2.5%	\$109,568.23
TOTAL	100%	\$4,404,193.65

FY 2022 SP&R Part II Expenditures by Type



Individual Research Projects	\$3,552,593.65
Multi-State Pooled Fund Studies	\$851,600.00
> Participation in Pooled Fund Studies Led by Other States	\$816,600.00
> Participation in MDOT-Led Pooled Fund Studies	\$35,000.00
Research Project Expenditures	\$4,404,193.65
NCHRP and TRB Contributions	\$1,656,650.00
AASHTO Programs	\$165,000.00
TOTAL	\$6,225,843.65

MDOT 2022 Research

THESE TABLES ARE ORGANIZED BY FOCUS AREA:

RESEARCH PROJECTS:

- Completed research reports that were released in FY 2022: October 2021 to September 2022.
- Research contracts that were active during FY 2022.

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 2022 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).

A complete FY 2022 annual report can be found at www.Michigan.gov/MDOTResearch.

Aviation										
Report Number	Title	Contractor	Investigator	Project Manager	Start Date	End Date	Total Budget	% Complete	FY 22 Expenditures	Spotlight
	Analysis and Deployment of an Unmanned Traffic Management System in Michigan - Phase I Feasibility Analysis	Airspace Link	Free	Smith	2/1/22	1/31/23	\$257,424.97	58%	\$150,000.00	

FAM: Bryan Budds, RM: Mary Hoffmeyer

Bridges and Structures										
Report Number	Title	Contractor	Investigator	Project Manager	Start Date	End Date	Total Budget	% Complete	FY 22 Expenditures	Spotlight
SPR-1703	Concrete Deterioration of Prestressed Bridge Beams	WMU	Attanayake	Liptak	03/01/19	07/31/22	\$309,318.50	100%	\$42,236.25	X
	Effects of Concrete Cure Time on Epoxy Overlay and Sealant Performance	WMU	Attanayake	Beicher	7/1/18	12/31/22	\$534,646.44	94%	\$93,237.66	
	Repair of Bridge Deck Fascias	WSU	Menkulasi	Beatty	10/1/21	9/30/23	\$272,812.24	50%	\$113,749.41	
	Electronic Water Level Sensors for Monitoring Scour Critical Structures	UM	Kerkez	Zwolinski	4/1/21	12/31/23	\$533,305.15	35%	\$180,435.37	
	Operational Baseline for the 2nd Avenue Network Arch Bridge	WMU	Attanayake	Pakala	1/1/22	5/31/24	\$276,587.71	25%	\$51,576.71	
	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	13%	\$65,366.78	
	Statewide Overall Carbon Fiber Composite Cable Bridge Monitoring	LTU	Grace	Kahl	12/17/13	9/30/25	\$1,169,711.17	53%	\$92,690.93	

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

Bridges and Structures Pooled Fund Studies

Study Number	Title	MDOT Project Manager	Lead State or Agency	# of Participating Partners	MI 2022 Expenditures	Expenditures Prior to 2022	Total MI Commitment	Start Date	End Date
TPF-5(363)	Evaluation of 0.7-inch-Diameter Carbon Fiber Reinforced Polymer (CFRP) Pretensioning Strands in Prestressed Beams	Kahl	MI DOT	4	\$0.00	\$266,639.00	\$266,639.00	12/5/17	3/31/22
TPF-5(372)	Building Information Modeling (BIM) for Bridges and Structures	Wagner	IA DOT	25	\$20,000.00	\$80,000.00	\$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	12/31/22
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	\$40,000.00	\$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	\$20,000.00	\$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	15	\$30,000.00	\$0.00	\$60,000.00	10/1/21	9/30/26

Construction

FAM: Lindsey Renner, RM: André Clover										
Report Number	Title	Contractor	Investigator	Project Manager	Start Date	End Date	Total Budget	% Complete	FY 22 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	64%	\$83,844.08	

Construction Pooled Fund Study

Study Number	Title	MDOT Project Manager	Lead State or Agency	# of Participating Partners	MI 2022 Expenditures	Expenditures Prior to 2022	Total MI Commitment	Start Date	End Date
TPF-5(438)	Smart Work Zone Deployment Initiative (FY20-FY24)	Renner	IA DOT	9	\$25,000.00	\$50,000.00	\$125,000.00	10/1/19	12/31/25

Contract Administration

FAM: Carol Rademacher, RM: Mary Hoffmeyer										
Report Number	Title	Contractor	Investigator	Project Manager	Start Date	End Date	Total Budget	% Complete	FY 22 Expenditures	Spotlight
	Competitive Bidding in Construction Contracting	WMU	Liu	Strzalka	1/1/21	9/30/22	\$105,898.65	100%	\$41,644.95	

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 22 Expenditures	Spotlight
SPR-1712	Infrastructure Protection and Rehabilitation Response to High Lake Levels	Arcadis	Hebebrand	Zweng	2/15/21	3/31/22	\$198,881.02	100%	\$28,636.52	X
	Eastern Massasauga (Sistrurus catenatus) Road Ecology and Population Dynamics in Michigan	MSU	Roloff	Grabarkiewicz	11/25/19	5/31/23	\$366,868.57	66%	\$94,978.85	
	Michigan Hydrologic Calculation Procedures	MTU	Watkins	Carlson	11/1/21	12/31/24	\$607,935.71	26%	\$159,496.92	

Environment and Water Resources Pooled Fund Studies

Study Number	Title	MDOT Project Manager	Lead State or Agency	# of Participating Partners	MI 2022 Expenditures	Expenditures Prior to 2022	Total MI Commitment	Start Date	End Date
TPF-5(358)	Wildlife Vehicle Collision Reduction and Habitat Connectivity	Novak	NV DOT	14	\$20,000.00	\$60,000.00	\$80,000.00	10/1/19	9/30/22
TPF-5(460)	Flood-Frequency Analysis in the Midwest: Addressing Potential Nonstationary Annual Peak-Flow Records	Carlson	SD DOT	8	\$55,600.00	\$0.00	\$166,800.00	10/1/21	9/30/24

Freight Logistics and Maritime Pooled Fund Study

Study Number	Title	MDOT Project Manager	Lead State or Agency	# of Participating Partners	MI 2022 Expenditures	Expenditures Prior to 2022	Total MI Commitment	Start Date	End Date
TPF-5(396)	Mid-America Freight Coalition (MAFC) Phase 3	Wulff	WI DOT	10	\$37,000.00	\$111,000.00	\$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 22 Expenditures	Spotlight
	Michigan Cone Penetrometer Test Calibration	UM	Hryciw, Garcia	Snook	1/1/22	11/30/24	\$517,826.52	11%	\$57,819.00	

Innovative Contracting

FAM: Ryan Mitchell, RM: Michael Townley

Report Number	Title	Contractor	Investigator	Project Manager	Start Date	End Date	Total Budget	% Complete	FY 22 Expenditures	Spotlight
SPR-1711	Innovative Contracting Risk Management Best Practices	RS&H	Keetley	Mitchell	8/1/20	12/31/21	\$351,631.38	94%	\$60,902.83	X

Intelligent Transportation Systems and Signals

FAM: Collin Castle, RM: André Clover

Report Number	Title	Contractor	Investigator	Project Manager	Start Date	End Date	Total Budget	% Complete	FY 22 Expenditures	Spotlight
	Sponsorship of the TRB Roundtable on Preparing for Automated Vehicles and Shared Mobility Services	TRB	N/A	Clover	1/1/20	12/31/21	\$125,000.00	100%	\$25,000.00	
SPR-1709	Quantifying Effectiveness and Impacts of Digital Message Signs on Traffic Flow	WMU	Kwigizile	Gutierrez	11/1/19	3/31/22	\$172,466.82	87%	\$7,927.50	X
	Effective Bridge Deck Weather Warning Technologies	MSU	Gates	Smith	2/15/21	7/31/23	\$355,167.11	7%	\$23,943.48	
	Utilizing Video Analytics w/Connected Vehicles for Improved Safety	Kimley-Horn	Good	Mueller	2/15/21	1/31/24	\$464,662.20	31%	\$70,119.75	

Intelligent Transportation Systems and Signals Pooled Fund Studies

Study Number	Title	MDOT Project Manager	Lead State or Agency	# of Participating Partners	MI 2022 Expenditures	Expenditures Prior to 2022	Total MI Commitment	Start Date	End Date
TPF-5(359)	Evaluating New Technologies for Roads Program Initiatives in Safety and Efficiency (ENTERPRISE), Phase II	Feldpausch	MI DOT	9	\$0.00	\$145,000.00	\$145,000.00	1/2/18	2/28/22
TPF-5(389)	Connected Vehicle Pooled Fund Study	Castle	VA DOT	28	\$0.00	\$100,000.00	\$100,000.00	10/1/19	9/30/24
TPF-5(453)	Automated Vehicle Pooled Fund Study	Castle	OH DOT	8	\$50,000.00	\$50,000.00	\$250,000.00	10/1/20	9/30/25
TPF-5(490)	ENTERPRISE - PHASE III (Phase II Continuation)	Feldpausch	MI DOT	8	\$35,000.00	\$0.00	\$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 22 Expenditures	Spotlight
	Determining State and Federal Transportation Responsibilities to Residents on Islands	MSU	Zockaie	Shultz	1/15/21	4/30/23	\$160,573.35	86%	\$116,114.58	

Mobility and Traffic Incidents

FAM: Tim Croze, RM: André Clover

Report Number	Title	Contractor	Investigator	Project Manager	Start Date	End Date	Total Budget	% Complete	FY 22 Expenditures	Spotlight
SPR-1713	Integration of Unmanned Aerial Systems Data Collection into Day-to-Day Usage for Transportation Infrastructure/Program Asset Management and Systems Operations	MTU	Brooks	Cook	6/12/19	6/11/22	\$871,003.00	92%	\$228,831.00	X

Mobility and Traffic Incidents Pooled Fund Studies

Study Number	Title	MDOT Project Manager	Lead State or Agency	# of Participating Partners	MI 2022 Expenditures	Expenditures Prior to 2022	Total MI Commitment	Start Date	End Date
TPF-5(176)	Traffic Analysis and Simulation	Firman	FHWA	16	\$0.00	\$70,000.00	\$70,000.00	6/1/16	1/31/22

Mobility and Traffic Incidents Pooled Fund Studies, continued

Study Number	Title	MDOT Project Manager	Lead State or Agency	# of Participating Partners	MI 2022 Expenditures	Expenditures Prior to 2022	Total MI Commitment	Start Date	End Date
TPF-5(319)	Transportation Management Center (TMC) Pooled Fund Study	Peplinski	FHWA	24	\$25,000.00	\$175,000.00	\$200,000.00	4/17/15	4/16/22
TPF-5(351)	Self-Deicing LED Signals	Smalley	KS DOT	7	\$0.00	\$60,000.00	\$60,000.00	3/25/16	12/31/21
TPF-5(489)	Safety Service Patrol Standardization and Management Practices	Gill	FHWA	15	\$250,000.00	\$0.00	\$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 22 Expenditures	Spotlight
	Leveraging Crowd-Sourced Data in Planning, Design, Analysis, and Evaluation of Pedestrian and Bicycle Traffic	UM	Misra	DeBruyn	10/1/21	3/31/23	\$337,141.98	41%	\$138,576.36	

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 22 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	82%	\$25,935.38	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 22 Expenditures	Spotlight
	Characterizing Initial Roughness and Material Properties for Pavement-ME Analysis and Design in Michigan	MSU	Haider	Schenkel	1/21/20	6/30/22	\$541,344.29	89%	\$190,092.68	
	Evaluation of MDOT's Long-Life Pilot Projects	MSU	Kutay	Eacker	10/25/19	12/31/22	\$418,912.98	93%	\$69,346.50	
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	73%	\$130,980.59	X
	Establish Policies and Procedures for Use of Subgrade Stabilization in Michigan	LTU	Bandara	Eacker	10/1/21	3/31/23	\$202,968.38	25%	\$51,470.40	
	Evaluation of MDOT's Methodologies for both Quantifying Pavement Distress and Modeling Pavement Performance for LCC and RSL Estimation Purposes	MSU	Kutay	Eacker	2/2/21	5/31/23	\$595,031.80	52%	\$213,620.07	

Pavements and Materials Pooled Fund Studies

Study Number	Title	MDOT Project Manager	Lead State or Agency	# of Participating Partners	MI 2022 Expenditures	Expenditures Prior to 2022	Total MI Commitment	Start Date	End Date
TPF-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(313)	Technology Transfer Concrete Consortium (TTCC)	Kennedy	IA DOT	36	\$0.00	\$60,000.00	\$60,000.00	4/10/15	3/31/22

Pavements and Materials Pooled Fund Studies

Study Number	Title	MDOT Project Manager	Lead State or Agency	# of Participating Partners	MI 2022 Expenditures	Expenditures Prior to 2022	Total MI Commitment	Start Date	End Date
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
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 I)	Kennedy	MN DOT	23	\$50,000.00	\$150,000.00	\$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	\$135,000.00	\$225,000.00	3/1/19	10/31/23
TPF-5(437)	Technology Transfer Concrete Consortium (FY20-FY24)	Kennedy	IA DOT	36	\$12,000.00	\$24,000.00	\$60,000.00	10/1/19	12/31/25
TPF-5(466)	National Road Research Alliance - NRRRA (Phase II)	Kennedy	MN DOT	13	\$150,000.00	\$150,000.00	\$750,000.00	10/1/20	1/31/26

Project Development

FAM: Nathan Miller, RM: Michael Townley

Report Number	Title	Contractor	Investigator	Project Manager	Start Date	End Date	Total Budget	% Complete	FY 22 Expenditures	Spotlight
SPR-1719	Developing a Consistent Data Driven Methodology to Multimodal, Performance Based, and Context Sensitive Design	MSU	Savolainen	Martin	10/11/19	9/30/22	\$304,014.75	100%	\$123,306.58	X
	Corridor and Systemwide Application of Performance-Based Practical Design	WSP	Wending	Miller	2/1/21	1/31/24	\$269,745.08	53%	\$116,067.68	
SPR-1701	Slope Restoration on Urban Freeways	MSU	Cregg	Alton	4/1/17	12/31/25	\$519,732.24	85%	\$4,242.11	

Project Development Pooled Fund Study

Study Number	Title	MDOT Project Manager	Lead State or Agency	# of Participating Partners	MI 2022 Expenditures	Expenditures Prior to 2022	Total MI Commitment	Start Date	End Date
TPF-5(495)	2023 Technology Exchange on Low Volume Road Design, Construction and Maintenance	Leix	IA DOT	9	\$12,000.00	\$0.00	\$108,000.00	9/1/21	9/30/23

Real Estate, Utilities and Permits

FAM: Larry Doyle, RM: Dean Kanitz

Report Number	Title	Contractor	Investigator	Project Manager	Start Date	End Date	Total Budget	% Complete	FY 22 Expenditures	Spotlight
	Right of Way Mapping Conversion to GIS	MSU	Bunting	Fitch	2/1/21	2/28/23	\$386,927.00	49%	\$132,511.15	

Roadway and Roadside Maintenance Pooled Fund Studies

Study Number	Title	MDOT Project Manager	Lead State or Agency	# of Participating Partners	MI 2022 Expenditures	Expenditures Prior to 2022	Total MI Commitment	Start Date	End Date
TPF-5(290)	Aurora Program	Droste	IA DOT	19	\$0.00	\$150,000.00	\$150,000.00	8/1/14	7/31/22
TPF-5(347)	Development of Maintenance Decision Support System	Roath	SD DOT	16	\$30,000.00	\$140,000.00	\$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	18	\$25,000.00	\$50,000.00	\$125,000.00	10/1/19	12/31/24
TPF-5(441)	No Boundaries Transportation Maintenance Innovations	Rowley	CO DOT	20	\$10,000.00	\$200,000.00	\$50,000.00	10/1/19	9/30/24
TPF-5(479)	Clear Roads Winter Highway Operations Pooled Fund - Phase III	Droste	MN DOT	37	\$25,000.00	\$0.00	\$50,000.00	5/1/22	9/30/24

Surveys and Automated Design Pooled Fund Study

Study Number	Title	MDOT Project Manager	Lead State or Agency	# of Participating Partners	MI 2022 Expenditures	Expenditures Prior to 2022	Total MI Commitment	Start Date	End Date
TPF-5(480)	Building Information Modeling (BIM) for Infrastructure	Arnold	IA DOT	20	\$30,000.00	\$30,000.00	\$150,000.00	7/1/21	9/30/25

Transportation Safety

FAM: Mark Bott, RM: André Clover										
Report Number	Title	Contractor	Investigator	Project Manager	Start Date	End Date	Total Budget	% Complete	FY 22 Expenditures	Spotlight
SPR-1704	Measure the Operational Cost and Benefit of Speed Feedback Signs	MSU	Gates	Uzategui	7/1/18	12/31/21	\$200,704.74	100%	\$62,081.20	X
SPR-1706	Performance and Safety of the US-23 Flex Route	MSU	Kassens-Noor	Firman	3/1/19	11/30/22	\$185,074.70	100%	\$45,754.52	X
SPR-1708	Synthesis of National Best Practices on Pedestrian and Bicycle Design, Guidance and Technology Innovations	MSU	Gates	Bott	4/1/19	12/31/21	\$206,101.91	100%	\$12,869.92	X
	Evaluating the Impacts of the 2017 Legislative Mandated Speed Limit Increases	MSU	Savolainen	Bott	3/1/19	6/30/22	\$230,104.19	77%	\$52,155.72	
	Evaluating the Performance and Safety Effectiveness of Roundabouts - An Update	MSU	Savolainen	Ealy	3/1/21	1/31/23	\$252,499.99	54%	\$124,262.19	
	Effective Pedestrian Nonmotorized Crossing Enhancements Along Higher Speed Corridors	WMU	Van Houten	Bott	1/1/21	9/30/23	\$163,913.30	53%	\$85,106.86	

Transportation Safety Pooled Fund Studies

Study Number	Title	MDOT Project Manager	Lead State or Agency	# of Participating Partners	MI 2022 Expenditures	Expenditures Prior to 2022	Total MI Commitment	Start Date	End Date
TPF-5(255)	Highway Safety Manual Implementation	Bott	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	Bott	NV DOT	42	\$10,000.00	\$30,000.00	\$40,000.00	10/1/19	9/30/24
TPF-5(343)	Roadside Safety and Research for MASH Implementation	Torres	WS DOT	28	\$50,000.00	\$220,000.00	\$320,000.00	10/1/16	12/31/23
TPF-5(444)	Traffic Safety Culture - Phase 2	Bott	MT DOT	20	\$10,000.00	\$20,000.00	\$50,000.00	10/1/19	9/30/24
TPF-5(447)	Traffic Control Device (TCD) Consortium (3)	Bott	FHWA	29	\$20,000.00	\$20,000.00	\$100,000.00	1/1/21	2/28/25

Travel Demand Forecasting

FAM: Karen Faussett, RM: Mary Hoffmeyer

Report Number	Title	Contractor	Investigator	Project Manager	Start Date	End Date	Total Budget	% Complete	FY 22 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	82%	\$109,568.23	X

Administration

Report Number	Title	Contractor	Investigator	Project Manager	Start Date	End Date	Total Budget	% Complete	FY 22 Expenditures	Spotlight
	Research Administration Section Planning and Communications	CTC	Casey	Hoffmeyer	10/1/20	9/30/25	\$492,314.72	42%	\$76,462.94	

National Initiatives

Study Number	Title	MDOT Project Manager	Lead State or Agency	# of Participating Partners	MI 2022 Expenditures	Expenditures Prior to 2022	Total MI Commitment	Start Date	End Date
SPR-1801(179)	AASHTO Engineering Technical Service Programs	Clover	AASHTO/ FHWA	N/A	\$165,000.00	\$0.00	\$165,000.00	10/1/21	9/30/22
TPF-5(422)	National Cooperative Highway Research Program (NCHRP) for FY 2022	Clover	FHWA	51	\$1,434,182.00	\$0.00	\$1,434,182.00	10/1/21	9/30/22
TPF-5(496)	TRB Core Program Activities FFY 2022 (TRB FY 2023)	Clover	AASHTO/ FHWA	31	\$222,468.00	\$0.00	\$222,468.00	10/1/21	9/30/22



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 2022)

4 Amendments

12 Closed individual research projects

9 New individual research projects

46 Individual research projects

47 Pooled fund studies and other national research initiatives

LIBRARY SERVICES STATISTICS (FY 2022)

1,210
Virtual visitors

16,323
Total circulation

119
New materials

468
Reference services

207
Library loans

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