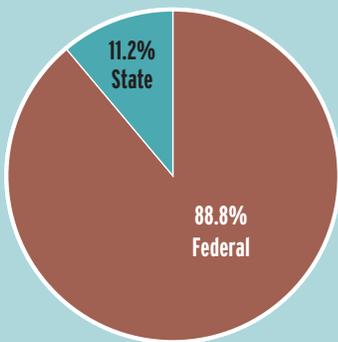


FY2013 At-A-Glance

OCTOBER 1, 2012 - SEPTEMBER 30, 2013

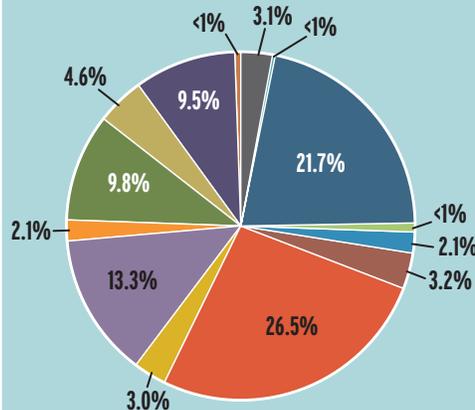
This publication presents a summary of Research and Library funding statistics and project progress for Fiscal Year (FY) 2013. The tables on pages 2 through 7 list all MDOT-funded research projects by topic area that were active or completed during 2013. These listings include both individual Michigan research projects and multi-state pooled fund projects.

FY 2013 SP&R Part II Expenditures by Funding Source



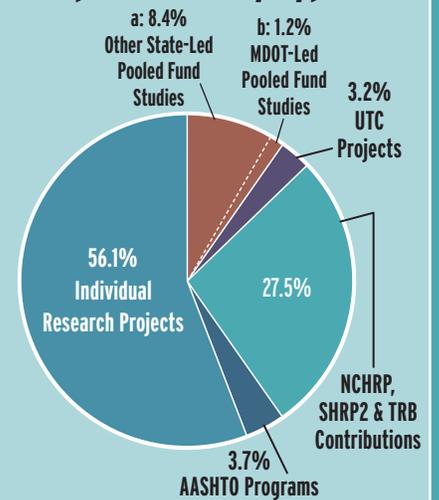
| | |
|------------------------|------------------------|
| State Research Funds | \$ 667,141.09 |
| Federal Research Funds | \$ 5,276,587.26 |
| TOTAL | \$ 5,943,728.35 |

FY 2013 Research Project Expenditures by Focus Area



| | |
|---------------------------------------|------------------------|
| Administrative | \$ 126,178.11 |
| Asset Management | \$ 6,212.27 |
| Bridges & Structures | \$ 889,708.70 |
| Environment & Water Resources | \$ 27,200.00 |
| Freight Rail | \$ 85,827.95 |
| Geotechnical & Foundation Design | \$ 130,083.58 |
| Intelligent Transportation Systems | \$ 1,084,659.94 |
| Local Transit | \$ 122,072.86 |
| Maintenance | \$ 544,843.47 |
| Mobility, Systems & Signal Operations | \$ 84,353.22 |
| Pavements & Materials | \$ 402,653.26 |
| Rest Areas, Utilities & Landscaping | \$ 188,578.92 |
| Transportation Safety | \$ 387,222.50 |
| Workforce Development | \$ 12,162.11 |
| TOTAL | \$ 4,091,756.89 |

FY 2013 SP&R Part II Expenditures by Type



| | |
|---|------------------------|
| Individual Research Projects | \$ 3,335,705.45 |
| Multi-State Pooled Fund Studies | |
| a: Participation in Pooled Fund Studies Led by Other States | \$ 497,000.00 |
| b: Participation in MDOT-Led Pooled Fund Studies | \$ 70,000.00 |
| UTC Projects | \$ 189,051.44 |
| Research Project Expenditures | \$ 4,091,756.89 |
| NCHRP, SHRP2 & TRB Contributions | \$ 1,633,971.46 |
| AASHTO Programs | \$ 218,000.00 |
| TOTAL | \$ 5,943,728.35 |

MDOT 2013 Research

THESE TABLES ARE ORGANIZED BY FOCUS AREA:

RESEARCH PROJECTS:

- Completed research reports
- Research contracts that were active during FY 2013

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 2013 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.

"Number of Participating States" for some pooled funds
includes Canadian provinces and agencies such as FHWA.

A complete Fiscal Year 2013 annual report can be found at www.michigan.gov/mdotresearch.

Asset Management

FAM: Bill Tansil, RM: Mark Polsdofer

| Report Number | Title | Contractor | Investigator | Project Manager | Start Date | End Date | Total Budget | % Complete | FY 13 Expenditures | Spotlight |
|---------------|--|------------|--------------|-----------------|------------|----------|--------------|------------|--------------------|-----------|
| | Evaluating Roadway Surface Rating Technologies | UM | Belzowski | Tansil | 8/20/13 | 7/8/14 | \$161,657.01 | 4% | \$6,212.27 | |

Bridges & Structures

FAMs: Dave Juntunen and Matthew Chynoweth, RM: Michael Townley

| Report Number | Title | Contractor | Investigator | Project Manager | Start Date | End Date | Total Budget | % Complete | FY 13 Expenditures | Spotlight |
|---------------|---|------------------------|--------------|-----------------|------------|----------|--------------|------------|--------------------|-----------|
| RC-1541 | Skewed Bridges | WSU | Fu | Jansson | 7/12/07 | 9/30/10 | \$214,975.71 | 100% | \$7,565.74 | |
| RC-1571 | Identification of Causes and Solution Strategies for Deck Cracking in Jointless Bridges | MSU | Burqueño | Burns | 10/20/09 | 5/31/12 | \$169,968.00 | 100% | \$0.00 | |
| RC-1586 | Implementation of Sustainable and Green Design and Construction Practices for Bridges | MSU | Korkmaz | Larkins | 10/1/10 | 12/31/12 | \$99,819.00 | 100% | \$0.00 | |
| RC-1587 | Development and Validation of Models for Concrete Bridge Decks | MSU | Burqueño | Jansson | 10/20/09 | 12/31/12 | \$299,747.00 | 100% | \$43,472.22 | |
| RC-1589 | Review and Revision of Overload Permit Classification | Michael Baker Jr. Inc. | Spangler | Wagner | 10/1/10 | 2/28/13 | \$209,405.64 | 100% | \$81,630.20 | X |
| RC-1597 | Non-Destructive Evaluation Seminar | WMU | Aktan | Kahl | 1/1/13 | 9/30/13 | \$24,999.52 | 100% | \$24,908.27 | |
| | Improving Bridges with Prefabricated Precast Concrete Systems | WMU | Aktan | Juntunen | 10/1/10 | 12/31/13 | \$400,672.27 | 92% | \$87,750.44 | |
| | Side-by-Side Probability for Bridge Design and Analysis | WSU | Eamon | Yalda | 10/1/12 | 4/15/14 | \$102,239.41 | 75% | \$74,638.22 | |
| | Accelerated Bridge Construction and Structural Move Workshop | WMU | Aktan | Chynoweth | 8/31/13 | 6/30/14 | \$36,541.61 | 0% | \$0.00 | |
| | Evaluation of Prestressed Concrete Beams in Shear | WSU | Eamon | Kulkarni | 10/1/11 | 9/30/14 | \$297,774.10 | 82% | \$116,651.84 | |
| | Evaluating Prestressing Strands and Post-Tensioning Cable in Concrete Structures Using Non-Destructive Evaluation (NDE) Methods Including Joint Shear Wave Analysis | LTU | Jensen | Curtis | 10/1/12 | 9/30/14 | \$249,999.97 | 40% | \$99,792.04 | |
| | Design and Construction Guidelines for Strengthening Bridges Using Fiber Reinforced Polymers (FRP) | WSU | Eamon | Kahl | 10/1/12 | 9/30/14 | \$163,854.14 | 30% | \$45,276.10 | |

Bridges & Structures, cont.

FAMs: Dave Juntunen and Matthew Chynoweth, RM: Michael Townley

| Report Number | Title | Contractor | Investigator | Project Manager | Start Date | End Date | Total Budget | % Complete | FY 13 Expenditures | Spotlight |
|---------------|---|------------|--------------|-----------------|------------|----------|--------------|------------|--------------------|-----------|
| | Remote Monitoring of Fatigue Sensitive Details on Bridges | WMU | Attanayake | Kahl | 10/1/12 | 9/30/14 | \$286,529.00 | 27% | \$73,130.19 | |
| | Evaluation of Bridge Decks Using Non-Destructive Evaluation (NDE) at Near Highway Speeds for Effective Asset Management | MTU | Ahlborn | Burns | 11/1/12 | 10/31/14 | \$243,251.57 | 42% | \$102,800.70 | |
| | Development, Characterization and Applications of a Non-Proprietary Ultra High Performance Concrete for Highway Bridges | UM | El-Tawil | Kahl | 3/30/13 | 3/30/15 | \$311,125.21 | 17% | \$52,092.74 | |
| | Bridge Design System Analysis and Modernization | MTU | Colling | Guerrazzi | 11/1/13 | 11/30/15 | \$551,176.40 | 0% | \$0.00 | |
| | Statewide Overall Carbon Fiber Composite Cable Bridge Monitoring | TBD | TBD | Chynoweth | FY 2014 | 9/30/19 | \$300,000.00 | 0% | \$0.00 | |

Bridges & Structures Pooled Fund Studies

| Study Number | Title | MDOT Project Manager | Lead State or Agency | Number of Participating States | MI 2013 Expenditures | Expenditures Prior to 2013 | Total MI Commitment | Start Date | End Date | Current MI Commitment End Date |
|--------------|---|----------------------|----------------------|--------------------------------|----------------------|----------------------------|---------------------|------------|----------|--------------------------------|
| TPF-5(174) | Construction of Crack-Free Bridge Decks, Phase II | Stallard | KS DOT | 14 | \$10,000.00 | \$60,000.00 | \$70,000.00 | 10/1/08 | 9/30/13 | 9/30/13 |
| TPF-5(247) | Field Testing Hand-Held Thermography Inspection Technologies, Phase II | Kathrens | MO DOT | 12 | \$60,000.00 | \$0.00 | \$60,000.00 | 11/10/11 | 9/30/13 | 9/30/13 |
| TPF-5(254) | Evaluation and Analysis of Decked Bulb T Beam Bridge | Juntunen | MI DOT | 5 | \$0.00 | \$120,439.75 | \$367,200.00 | 9/19/11 | 9/30/14 | 9/30/14 |
| TPF-5(271) | Reorganization of Section 5, Concrete Structures, of the AASHTO LRFD Bridge Design Specifications | Chynoweth | KS DOT | 17 | \$10,000.00 | \$0.00 | \$30,000.00 | 10/1/12 | 9/30/15 | 9/30/15 |

Environment & Water Resources

FAM: Kristin Schuster, RM: Michael Townley

| Report Number | Title | Contractor | Investigator | Project Manager | Start Date | End Date | Total Budget | % Complete | FY 13 Expenditures | Spotlight |
|---------------|--|------------|--------------|-----------------|------------|----------|--------------|------------|--------------------|-----------|
| RC-1598 | Greenhouse Gas Inventory for the Michigan Department of Transportation | FTCH | Buckler | Annelin | 9/16/11 | 12/31/13 | \$68,000.00 | 60% | \$27,200.00 | |

Freight Rail

FAM: Kris Foondle, RM: Mark Polsdofer

| Report Number | Title | Contractor | Investigator | Project Manager | Start Date | End Date | Total Budget | % Complete | FY 13 Expenditures | Spotlight |
|---------------|--|------------|--------------|-----------------|------------|----------|--------------|------------|--------------------|-----------|
| RC-1578 | Timing Issues for Traffic Signals Interconnected with Highway-Railroad Grade Crossings | WSU | Datta | Foondle | 8/1/11 | 3/1/13 | \$89,758.00 | 100% | \$18,849.37 | |

Freight Rail Pooled Fund Study

| Study # | Title | MDOT Project Manager | Lead State or Agency | Number of Participating States | MI 2013 Expenditures | Expenditures Prior to 2013 | Total MI Commitment | Start Date | End Date | Current MI Commitment End Date |
|---------|---|----------------------|----------------------|--------------------------------|----------------------|----------------------------|---------------------|------------|----------|--------------------------------|
| 116234 | National University Rail Center for Research, Education and Technology Transfer (NURails) | D'Lamater | MTU | N/A | \$66,978.58 | \$0.00 | \$99,470.00 | 10/8/12 | 1/31/14 | 1/31/14 |

Geotechnical & Foundation Design

FAM: Dick Endres, RM: André Clover

| Report Number | Title | Contractor | Investigator | Project Manager | Start Date | End Date | Total Budget | % Complete | FY 13 Expenditures | Spotlight |
|---------------|---|------------|--------------|-----------------|------------|----------|--------------|------------|--------------------|-----------|
| RC-1557 | Feasibility of Digital Imaging to Characterize Earth Materials | UM | Hryciw | Endres | 10/1/10 | 12/31/11 | \$129,707.10 | 100% | \$0.00 | |
| | Effect of Pile-Driving Induced Vibrations on Nearby Structures and Other Assets | UM | Zekkos | Endres | 10/1/11 | 10/31/13 | \$229,370.76 | 85% | \$95,197.75 | |
| | Predictive Modeling of Freezing and Thawing of Frost-Susceptible Soils | MSU | Khire | Endres | 10/1/12 | 9/30/14 | \$99,453.00 | 35% | \$34,885.83 | |

Geotechnical & Foundation Design Pooled Fund Study

| Study Number | Title | MDOT Project Manager | Lead State or Agency | Number of Participating States | MI 2013 Expenditures | Expenditures Prior to 2013 | Total MI Commitment | Start Date | End Date | Current MI Commitment End Date |
|--------------|--|----------------------|----------------------|--------------------------------|----------------------|----------------------------|---------------------|------------|----------|--------------------------------|
| TPF-5(285) | Standardizing Lightweight Deflectometer Measurements for OA and Modulus Determination in Unbound Bases and Subgrades | Endres | MD DOT | 8 | \$0.00 | \$0.00 | \$50,000.00 | 10/1/13 | 9/30/14 | 9/30/14 |

Intelligent Transportation Systems

FAM: Matt Smith, RM: André Clover

| Report Number | Title | Contractor | Investigator | Project Manager | Start Date | End Date | Total Budget | % Complete | FY 13 Expenditures | Spotlight |
|---------------|---|----------------|--------------|-----------------|------------|----------|----------------|------------|--------------------|-----------|
| RC-1568 | Usage and Impact of the Michigan Vehicle Infrastructure Integration (VII) Program | Mixon Hill | Mixon | Cook | 2/15/07 | 8/31/11 | \$3,500,000.00 | 100% | \$0.00 | |
| RC-1573 | Slippery Road Detection and Evaluation | UM | Robinson | Cook | 10/20/09 | 6/1/12 | \$250,000.00 | 100% | \$0.00 | |
| | Advanced Applications of IntelliDrive Data Use Analysis and Processing 2 (DUAP2) | Mixon Hill | Mixon | Castle | 8/9/11 | 6/30/14 | \$3,689,576.45 | 43% | \$954,244.79 | |
| | Infrastructure Monitoring Data Management | Alfred Benesch | Darwish | Cook | 9/30/09 | 4/1/15 | \$215,422.36 | 46% | \$0.00 | |
| | Costs and Benefits of MDOT Intelligent Transportation System Deployments | WMU | Oh | Castle | 6/3/13 | 4/30/15 | \$233,394.69 | 5% | \$10,415.15 | |

Intelligent Transportation Systems Pooled Fund Studies

| Study Number | Title | MDOT Project Manager | Lead State or Agency | Number of Participating States | MI 2013 Expenditures | Expenditures Prior to 2013 | Total MI Commitment | Start Date | End Date | Current MI Commitment End Date |
|--------------|--|----------------------|----------------------|--------------------------------|----------------------|----------------------------|---------------------|------------|----------|--------------------------------|
| TPF-5(206) | Research Program to Support the Research, Development and Deployment of System Operations Applications of Vehicle Infrastructure Integration (VII) | Smith | VA DOT | 15 | \$50,000.00 | \$0.00 | \$100,000.00 | 10/1/12 | 9/30/14 | 9/30/14 |
| TPF-5(231) | ITS Pooled Fund Program (ENTERPRISE) | Nederveld | MI DOT | 15 | \$70,000.00 | \$70,000.00 | \$175,000.00 | 10/1/09 | 9/30/14 | 9/30/14 |

Local Transit Pooled Fund Studies

| Study Number | Title | MDOT Project Manager | Lead State or Agency | Number of Participating States | MI 2013 Expenditures | Expenditures Prior to 2013 | Total MI Commitment | Start Date | End Date | Current MI Commitment End Date |
|--------------|---|----------------------|----------------------|--------------------------------|----------------------|----------------------------|---------------------|------------|----------|--------------------------------|
| 116226 | A Study of Factors That Inhibit and Enable Effective Development of Sustainable Regional Transit Systems in Southeastern Michigan | Edgar | UDM | N/A | \$79,572.82 | \$3,472.00 | \$100,000.00 | 7/1/12 | 12/31/13 | 12/31/13 |
| 116233 | A Study on the Remanufacturing, Repurposing and Recycling of Lithium-Ion Batteries in Public Transit Vehicles | Fandialan | GVSU | N/A | \$42,500.04 | \$5,917.19 | \$50,000.05 | 9/19/12 | 12/31/13 | 12/31/13 |

Maintenance

FAM: Gary Mayes, RM: André Clover

| Report Number | Title | Contractor | Investigator | Project Manager | Start Date | End Date | Total Budget | % Complete | FY 13 Expenditures | Spotlight |
|---------------|---|----------------|--------------|-----------------|------------|----------|--------------|------------|--------------------|-----------|
| | Monitoring Highway Assets with Remote Technology | Dye Management | Zilay | Croze | 7/31/12 | 1/31/14 | \$489,997.00 | 83% | \$373,525.00 | |
| | Evaluating the Use of Unmanned Aerial Vehicles (UAVs) for Transportation Purposes | MTU | Brooks | Cook | 5/22/13 | 11/30/14 | \$240,898.91 | 21% | \$43,473.44 | |
| | Evaluating the Use of Tow Plows | LTU | Bandara | Croze | 3/30/13 | 3/30/15 | \$186,661.15 | 4% | \$17,845.03 | |

Maintenance Pooled Fund Studies

| Study Number | Title | MDOT Project Manager | Lead State or Agency | Number of Participating States | MI 2013 Expenditures | Expenditures Prior to 2013 | Total MI Commitment | Start Date | End Date | Current MI Commitment End Date |
|--------------|--|----------------------|----------------------|--------------------------------|----------------------|----------------------------|---------------------|------------|----------|--------------------------------|
| TPF-5(054) | Development of Maintenance Decision Support System | Cook | SD DOT | 20 | \$85,000.00 | \$25,000.00 | \$110,000.00 | 6/1/12 | 9/30/13 | 9/30/13 |
| TPF-5(218) | Clear Roads Winter Highway Operations Pooled Fund | Croze | MN DOT | 26 | \$25,000.00 | \$75,000.00 | \$100,000.00 | 10/1/09 | 9/30/13 | 9/30/13 |

Mobility, Systems & Signal Operations

FAM: Steve Cook, RM: André Clover

| Report Number | Title | Contractor | Investigator | Project Manager | Start Date | End Date | Total Budget | % Complete | FY 13 Expenditures | Spotlight |
|---------------|--|-----------------------|--------------|-----------------|------------|----------|--------------|------------|--------------------|-----------|
| RC-1581 | Best Practices for Emergency Rerouting | Kimley Horn | Dunzo | Kremer | 10/4/11 | 9/30/12 | \$178,082.00 | 100% | \$0.00 | |
| RC-1583 | Implementation of Quick Clearance in Michigan | Cambridge Systematics | Krechmer | Kremer | 10/1/11 | 9/30/12 | \$185,254.98 | 100% | \$0.00 | X |
| RC-1584 | Transportation Reliability and Trip Satisfaction | WSU | Gates | Firman | 10/1/11 | 12/31/12 | \$172,901.00 | 100% | \$4,871.51 | |
| | Evaluating Michigan Commercial Vehicle Enforcement Strategies and Facilities | WMU | Kwigizile | Firman | 5/7/13 | 3/30/15 | \$268,560.45 | 8% | \$17,751.05 | |
| | Balancing the Costs of Mobility Investments in Work Zones | WSU | Savolainen | Owen | 6/19/13 | 5/15/15 | \$250,000.00 | 5% | \$11,730.66 | |

Mobility, Systems & Signal Operations Pooled Fund Study

| Study Number | Title | MDOT Project Manager | Lead State or Agency | Number of Participating States | MI 2013 Expenditures | Expenditures Prior to 2013 | Total MI Commitment | Start Date | End Date | Current MI Commitment End Date |
|--------------|--|----------------------|----------------------|--------------------------------|----------------------|----------------------------|---------------------|------------|----------|--------------------------------|
| SPR-2(207) | Transportation Management Center (TMC) Pooled Fund Study | Peplinski | FHWA | N/A | \$50,000.00 | \$0.00 | \$100,000.00 | 7/22/13 | 9/30/15 | 9/30/15 |

Pavements & Materials

FAMs: Curtis Bleech and John Staton, RM: André Clover

| Report Number | Title | Contractor | Investigator | Project Manager | Start Date | End Date | Total Budget | % Complete | FY 13 Expenditures | Spotlight |
|---------------|---|------------|--------------|-----------------|------------|----------|--------------|------------|--------------------|-----------|
| RC-1574 | Improved Performance of JPCP Overlays | UM | Hansen | Krom | 10/20/09 | 5/15/12 | \$333,956.31 | 100% | \$0.00 | |
| RC-1591 | Alternative Materials for Sustainable Transportation | MTU | You | Maack | 11/13/09 | 12/31/12 | \$299,960.16 | 100% | \$15,564.52 | |
| RC-1579 | Cost-Effectiveness of the MDOT Preventive Maintenance Program | APT | Peshkin | Chelotti | 10/1/10 | 3/31/13 | \$179,988.00 | 100% | \$27,437.74 | |

Pavements & Materials, cont.

FAMs: Curtis Bleech and John Staton, RM: André Clover

| Report Number | Title | Contractor | Investigator | Project Manager | Start Date | End Date | Total Budget | % Complete | FY 13 Expenditures | Spotlight |
|---------------|--|------------|--------------|-----------------|------------|----------|--------------|------------|--------------------|-----------|
| | Evaluating the Financial Cost and Impact on Long-Term Pavement Performance of Expediting Michigan's Road Construction Work | MSU | El-gafy | Grazioli | 10/1/11 | 10/30/13 | \$66,756.87 | 83% | \$21,880.31 | |
| | Preparation of Implementation of the Mechanistic-Empirical Pavement Design Guide in Michigan | MSU | Buch | Eacker | 10/1/11 | 9/30/14 | \$400,000.00 | 75% | \$155,770.69 | X |

Pavements & Materials Pooled Fund Studies

| Study Number | Title | MDOT Project Manager | Lead State or Agency | Number of Participating States | MI 2013 Expenditures | Expenditures Prior to 2013 | Total MI Commitment | Start Date | End Date | Current MI Commitment End Date |
|--------------|--|----------------------|----------------------|--------------------------------|----------------------|----------------------------|---------------------|------------|----------|--------------------------------|
| TPF-5(159) | Technology Transfer Concrete Consortium (TTCC) | Staton | IA DOT | 24 | \$10,000.00 | \$35,000.00 | \$59,000.00 | 10/1/08 | 9/30/15 | 9/30/15 |
| TPF-5(183) | Improving the Foundation Layers for Concrete Pavements | Grazioli | IA DOT | 7 | \$35,000.00 | \$140,000.00 | \$175,000.00 | 10/1/08 | 9/30/13 | 9/30/13 |
| TPF-5(215) | Transportation Engineering and Road Research Alliance (TERRA) | Clover | MN DOT | 6 | \$7,000.00 | \$16,500.00 | \$30,500.00 | 10/1/09 | 9/30/14 | 9/30/14 |
| TPF-5(224) | Investigation of Jointed Plain Concrete Pavement Deterioration at Joints and the Potential Contribution of Deicing Chemicals | Staton | IA DOT | 9 | \$15,000.00 | \$45,000.00 | \$60,000.00 | 10/1/09 | 9/30/13 | 9/30/13 |
| TPF-5(225) | Validation and Implementation of Hot-Poured Crack Sealant | Bennett | VA DOT | 9 | \$50,000.00 | \$50,000.00 | \$100,000.00 | 10/1/09 | 9/30/13 | 9/30/13 |
| TPF-5(242) | Traffic and Data Preparation for AASHTO MEPDG Analysis and Design | Eacker | LA DOT | 8 | \$25,000.00 | \$25,000.00 | \$50,000.00 | 6/1/12 | 8/31/14 | 8/31/14 |
| TPF-5(269) | Development of an Improved Design Procedure for Unbonded Concrete Overlays | Krom | MN DOT | 8 | \$40,000.00 | \$0.00 | \$60,000.00 | 4/13/12 | 9/30/14 | 9/30/14 |
| TPF-5(286) | Next Generation Concrete Pavement Road Map | Staton | IA DOT | 5 | \$0.00 | \$0.00 | \$75,000.00 | 10/1/12 | 9/30/17 | 9/30/17 |

Rest Areas, Utilities & Landscaping

FAM: Terry Frake, RM: Michael Townley

| Report Number | Title | Contractor | Investigator | Project Manager | Start Date | End Date | Total Budget | % Complete | FY 13 Expenditures | Spotlight |
|---------------|---|------------|--------------|-----------------|------------|----------|--------------|------------|--------------------|-----------|
| RC-1596 | Roadside Corridor Planning | WSU | Gates | Lynwood | 6/30/12 | 8/30/13 | \$190,000.00 | 100% | \$178,426.35 | X |
| | Re-Examination of the 1994 and Subsequent Sewer and Culvert Installations of Various Pipe Types, Sizes and Depths | URS | Guter | Kline | 5/25/11 | 12/20/13 | \$550,905.00 | 98% | \$10,152.57 | |

Transportation Safety

FAM: Mark Bott, RM: Michael Townley

| Report Number | Title | Contractor | Investigator | Project Manager | Start Date | End Date | Total Budget | % Complete | FY 13 Expenditures | Spotlight |
|---------------|---|--------------------|--------------|-----------------|------------|----------|--------------|------------|--------------------|-----------|
| RC-1555 | Safety Analysis of 4-Lane to 3-Lane Conversions (Road Diets) in Michigan | MSU | Lyles | Leix | 10/1/10 | 12/31/11 | \$149,281.00 | 100% | \$0.00 | X |
| RC-1565 | Evaluating Performance and Making Best Use of Passing Relief Lanes | Opus International | Bagdade | Kanitz | 10/1/10 | 12/31/11 | \$159,887.20 | 100% | \$0.00 | |
| RC-1566 | Evaluating the Performance and Effectiveness of Roundabouts | Opus International | Bagdade | Kanitz | 10/1/10 | 12/31/11 | \$149,576.66 | 100% | \$0.00 | |
| RC-1572 | Sharing the Road: Optimizing Pedestrian and Bicycle Safety and Vehicle Mobility | TY Lin | LaPlante | Thompson | 10/1/10 | 4/30/12 | \$199,751.95 | 100% | \$0.00 | |
| RC-1585 | Evaluating Pedestrian Safety Improvements | WMU | VanHouten | Thompson | 10/1/10 | 12/31/12 | \$199,998.86 | 100% | \$44,801.30 | |
| RC-1592 | Transportation Patterns of Older Drivers in Rural Michigan | UM | Eby | Lariviere | 10/1/11 | 12/31/12 | \$227,897.93 | 100% | \$11,123.37 | X |

Transportation Safety, cont.

FAM: Mark Bott, RM: Michael Townley

| Report Number | Title | Contractor | Investigator | Project Manager | Start Date | End Date | Total Budget | % Complete | FY 13 Expenditures | Spotlight |
|---------------|---|------------|--------------|-----------------|------------|----------|--------------|------------|--------------------|-----------|
| RC-1603 | Development of Performance Measures for Non-Motorized Dynamics | WMU | Oh | Thompson | 10/1/12 | 12/31/13 | \$201,851.00 | 85% | \$169,598.47 | |
| | Evaluating Differential and Non-Differential Freeway Truck and Bus Speed Limits | WSU | Savolainen | Firman | 2/26/13 | 5/1/14 | \$175,060.61 | 15% | \$26,225.03 | |
| | Evaluation of Non-Freeway Rumble Strips, Phase II | WSU | Datta | Morena | 2/8/13 | 9/30/14 | \$249,999.90 | 28% | \$54,608.59 | |
| | Study of High-Tension Cable Barrier on Michigan Roadways | WSU | Savolainen | Torres | 10/1/11 | 12/31/14 | \$223,895.17 | 56% | \$80,865.74 | |
| | Michigan Urban Trunkline Intersections Safety Performance Function (SPFs) Development and Support | WSU | Savolainen | Kanitz | 9/1/13 | 5/31/15 | \$250,100.20 | 0% | \$0.00 | |

Workforce Development

FAMs: Don Whiteside and Todd White, RM: Michael Townley

| Report Number | Title | Contractor | Investigator | Project Manager | Start Date | End Date | Total Budget | % Complete | FY 13 Expenditures | Spotlight |
|---------------|---|------------|--------------|-----------------|------------|----------|--------------|------------|--------------------|-----------|
| RC-1582 | Examining the Disadvantaged Business Enterprise (DBE) Program | UM | Davis | Collins | 10/1/10 | 11/30/12 | \$193,065.02 | 100% | \$12,162.11 | X |

Administrative

| Report Number | Title | Contractor | Investigator | Project Manager | Start Date | End Date | Total Budget | % Complete | FY 13 Expenditures | Spotlight |
|---------------|---|------------|--------------|-----------------|------------|----------|--------------|------------|--------------------|-----------|
| | Research Administration Section Planning and Communications | CTC | Casey | Polsdofer | 1/31/12 | 9/30/14 | \$239,863.00 | 72% | \$101,178.11 | |

Administrative Pooled Fund Studies

| Study Number | Title | MDOT Project Manager | Lead State or Agency | Number of Participating States | MI 2011 Commitment | Expenditures Prior to 2011 | Total MI Commitment | Start Date | End Date | Current MI Commitment End Date |
|--------------|--|----------------------|----------------------|--------------------------------|--------------------|----------------------------|---------------------|------------|----------|--------------------------------|
| TPF-5(209) | Support of the Transportation Curriculum Coordination Council (TCCC) | Chaput | FHWA | 18 | \$20,000.00 | \$60,000.00 | \$100,000.00 | 10/1/09 | 9/30/14 | 9/30/14 |
| TPF-5(237) | Transportation Library Connectivity and Development | Briseno | MO DOT | 27 | \$5,000.00 | \$15,000.00 | \$25,000.00 | 5/1/11 | 9/30/14 | 9/30/14 |

National Initiatives

| Study Number | Title | MDOT Project Manager | Lead State or Agency | Number of Participating States | MI 2013 Expenditures | Expenditures Prior to 2013 | Total MI Commitment | Start Date | End Date | Current MI Commitment End Date |
|--------------|---|----------------------|----------------------|--------------------------------|----------------------|----------------------------|---------------------|------------|----------|--------------------------------|
| 115024 | Environmental Technical Assistance Program (ETAP) | Barondess | AASHTO | N/A | \$8,000.00 | \$0.00 | \$24,000.00 | 10/1/12 | 9/30/15 | 9/30/15 |
| 115193 | AASHTO Engineering Technical Service Programs | Clover | AASHTO | N/A | \$85,000.00 | \$0.00 | \$85,000.00 | 10/1/12 | 9/30/13 | 9/30/13 |
| 121242 | AASHTOWare Bridge Management Software: PONTIS 5.2 | Curtis | AASHTO | N/A | \$125,000.00 | \$0.00 | \$250,000.00 | 10/1/12 | 9/30/14 | 9/30/14 |
| SHR-2(013) | SHRP 2 Implementation | Clover | FHWA | N/A | \$398,387.00 | \$0.00 | \$399,960.00 | 10/1/12 | 9/30/13 | 9/30/13 |
| TPF-5(277) | Core Program Services for a Highway RD&T Program: FY 2013 (TRB FY 2014) | Clover | FHWA | N/A | \$181,766.00 | \$0.00 | \$206,710.00 | 10/1/12 | 9/30/13 | 9/30/13 |
| TPF-5(413) | National Cooperative Highway Research Program (NCHRP) for FY 2013 | Clover | FHWA | N/A | \$1,053,818.46 | \$0.00 | \$1,150,000.00 | 10/1/12 | 9/30/13 | 9/30/13 |

The Research Administration Team



MISSION

Promoting innovative research for economic benefit and improved quality of life

VALUES

Quality
Teamwork
Customer Orientation
Integrity
Pride



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