

WisDOT RESEARCH PROGRAM

Annual
2015 Report



To the transportation research community:

I am pleased to present the Wisconsin Department of Transportation (WisDOT) 2015 Annual Report on research activities. This report highlights the department's dedication to upholding its mission to, "provide leadership in the development and operation of a safe and efficient transportation system."

Over the past year, WisDOT's \$3.77 million research program completed eight state-sponsored projects conducted through the Wisconsin Highway Research Program (WHRP) and the Policy Research Program. The department led three state pooled fund research projects and participated in 43 others. The department also collaborated with educational institutions, organizations within the transportation industry and state and federal agencies to develop and disseminate valuable, innovative ideas of shared interest by participating in national studies and panels. Staff completed five synthesis reports and 27 literature searches, handled 670 customer inquiries, circulated over 1,615 items and added 2,301 records to the library.

These accomplishments mark the first anniversary of a structural reorganization to bring WisDOT's research and library services into the Executive Offices, within the Office of Policy, Finance and Improvement. This move elevates the profile of the research program within the department. It ensures alignment with the department's MAPSS Performance Improvement program, which focuses on the five core goals areas and associated performance measures that guide the department in achieving our mission. By aligning research with the department's strategic priorities and culture of data-driven decision-making, we aim to accelerate rapid implementation of research results. The application of promising materials and technologies, and associated policies and procedures to show accountability to our transportation stakeholders and the public.

I am proud to recognize these accomplishments and would like to thank the department staff for what they have achieved this year in the area of research. I look forward to WisDOT continuing its leadership in the application of applied research and innovation through 2016 and beyond.

Mark Gottlieb, P.E.
Secretary
Wisconsin Department of Transportation

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This is a report of research and technology transfer activities carried out by the Wisconsin Department of Transportation through the Part 2 research portion of the State Planning and Research Program of the Federal Highway Administration, U.S. Department of Transportation. The report describes activities during Federal Fiscal Year 2015, covering October 1, 2014, through September 30, 2015.

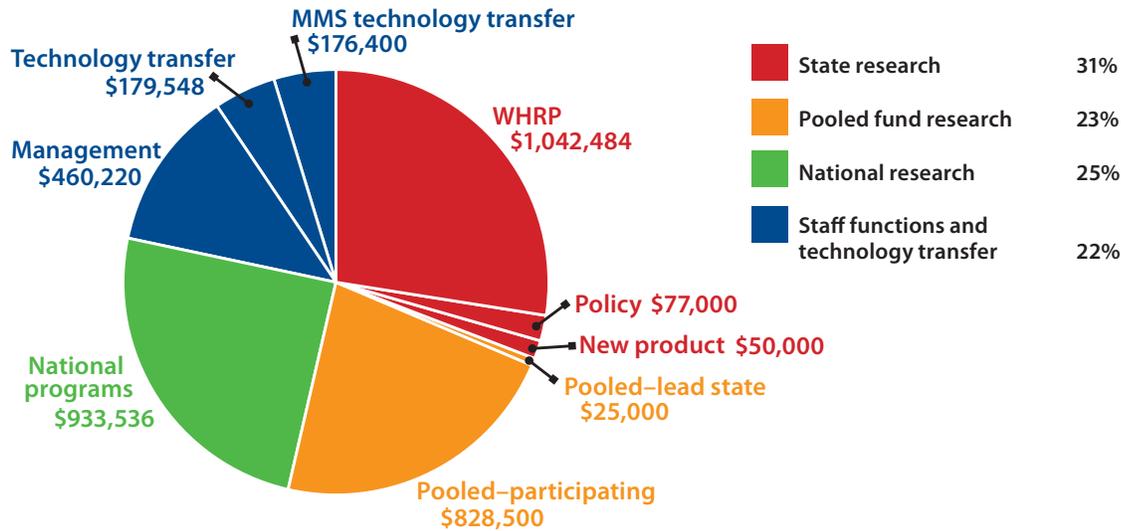
Common acronyms used in this document

AASHTO	American Association of State Highway and Transportation Officials
DOT	U.S. Department of Transportation
DBM	(WisDOT) Division of Business Management
DMV	(WisDOT) Division of Motor Vehicles
DSP	(WisDOT) Division of State Patrol
DTIM	(WisDOT) Division of Transportation Investment Management
DTSD	(WisDOT) Division of Transportation System Development
EXEC	(WisDOT) Executive Offices
FFY	Federal Fiscal Year
FHWA	Federal Highway Administration
MAPSS	M obility, A ccountability, P reservation, S afety and S ervice
NCHRP	National Cooperative Highway Research Program
OPFI	Office of Policy, Finance and Improvement
SHRP2	The Second Strategic Highway Research Program
SPR	State Planning and Research Program
TPF	Transportation Pooled Fund
TRB	Transportation Research Board
UW	University of Wisconsin
WHRP	Wisconsin Highway Research Program
WisDOT	Wisconsin Department of Transportation

Program overview

The Wisconsin Department of Transportation (WisDOT) managed a \$3.77 million program for research, library and technology transfer services during federal fiscal year (FFY) 2015. The State Planning and Research Part 2 (SPR2) federal program funded 89 percent (\$3.37 million) of the program, while state funds covered the remaining 11 percent.

Research program funding



State research

The Wisconsin Highway Research Program (WHRP) is focused on projects to improve the state’s transportation system. Policy research addresses non-engineering issues such as planning, operations and safety. New product research funding supports statewide quality assurance and materials testing.

National research

The department helps sustain national research initiatives on topics of broad national interest through the Transportation Research Board (TRB), the National Cooperative Highway Research Program (NCHRP) and Strategic Highway Research Program 2 (SHRP2).

Pooled fund research

The Transportation Pooled Fund (TPF) program allows federal, state and local agencies and other organizations to combine resources to support transportation research studies of common interest. In FFY 2015, WisDOT research led three pooled funds and provided support for 43 others.

Staff functions and technology transfer

Efficient management of the program contributes to continuous performance improvement. The research program funds technology transfer activities and library services to coordinate dissemination of research. Funds for WisDOT’s Materials Management Section (MMS) technology transfer activities are also included in the research program.

Featured research

The Department's MAPSS Performance Improvement program focuses on the five core goal areas of: **M**obility, **A**ccountability, **P**reservation, **S**afety and **S**ervice. Examples of research that contribute to achieving the department's strategic mission are listed below. The realized or anticipated impact to the state of practice is included for each project, to reaffirm the department's commitment to support data-driven decision-making through agile implementation of applied research recommendations.



Mobility

MAPSS goal: To deliver transportation choices that result in efficient trips and no unexpected delays.

TPF-5(274)

Midwest Freight Pooled Fund

Lead Agency – WisDOT:

<http://www.pooledfund.org/Details/Study/507>

Project overview: This ongoing pooled fund aims to accomplish several outcomes, including: optimizing routing tools for hazardous material shipments; identifying transportation infrastructure most at risk from climate-change scenarios; identifying barriers and opportunities for delivery of local food; and developing strategies for revitalizing rural economics with shortline rail access. WisDOT staff provides management of the pooled fund, while UW-Madison provides direction and management of the National Center for Freight & Infrastructure Research & Education (CFIRE).

Impact of the research on current practice: This year, the project's focus was on evaluating bridge configurations for accommodating oversize/overweight (OSOW) vehicles. Loads such as pressure vessels; transformers used in power plants; boilers; military hardware and; wind turbine components require vehicles with unusual configurations that may weigh five to six times the normal legal truck weight and make common evaluation methods inapplicable. The project team has developed a simplified analytic method to determine the effects of OSOW vehicles on a variety of complex bridge configurations, such as steel tied arches, rigid frame, truss and bascule bridges.

Accountability

MAPSS goal: To use public dollars in the most efficient and cost-effective way.

TPF-5(302)

Modified Binder (PG+) Specifications and Quality Control Criteria Pooled Fund

LEAD AGENCY – WisDOT:

<http://www.pooledfund.org/Details/Study/546>

Project overview: There is no current consensus among state highway and transportation agencies as to the appropriate binder specification test methods required for adequate quality control and acceptance of modified asphalt binders. Many agencies have gone beyond conventional performance grade (PG) tests and implemented performance grade supplemental

(PG+) procedures; however, differences in these additional procedures are not uniform among states. The intent of this ongoing project is to provide essential information to state and local agencies to support standardization of PG+ specifications for asphalt by identifying test methods that are reproducible and show promise in simulating actual field performance.

Impact of the research on current practice:

The absence of standardized testing and acceptance criteria leaves room for inconsistencies in modified asphalt binders that compromise pavement durability. Evaluating best practices and specifications will establish necessary standards that ensure states are implementing modified binders of acceptable quality.

Featured research *(continued)*

Preservation

MAPSS goal: To protect, maintain and operate Wisconsin's transportation system efficiently by making sound investments that preserve and extend the life of our infrastructure, while protecting our natural environment.

0092-08-11

Effective Depth of Soil Compaction in Relation to Applied Compactive Energy

Project Brief and Final Report:

<http://wisconsin.gov/Pages/about-wisdot/research/geotech.aspx>

Project overview: WisDOT spends approximately ten percent of its annual improvement project budget on embankment construction. The goal of this research was to harmonize the PG+ tests being used nationally and to relate PG+ binder tests to mixture performance. This project collected data and developed analysis methods to determine optimum life thickness for embankment construction projects. A critical aspect of embankment construction is stability. It is needed to provide an acceptable

foundation for pavement construction and contributes to the long-term performance of the pavement structure. To achieve stability, WisDOT developed specifications for embankment density and thickness of embankment lifts placed during construction. However, contractors often exceed these limits, and WisDOT does not have the staffing capacity to closely monitor embankment construction.

Impact of the research on current practice: This project recommended implementation of sustainable practices to improve quality and reduce cost of embankment infrastructure. The data, analyses and correlations will help WisDOT officials in proposing revisions to current construction specifications and improving construction operations through the creation of more stable and economical subgrade structures. Improved understanding of soil compaction will lead to better industry practices, such as using modern earthmoving and compaction equipment with much larger footprints and weight to compact thicker soil layers without sacrificing mechanical performance of embankments and reduce construction costs.

Safety

MAPSS goal: To move towards minimizing the number of deaths, injuries and crashes on our roadways.

TPF-5(317)

Evaluation of Low Cost Safety Improvements Pooled Fund

Lead Agency – FHWA:

<http://www.pooledfund.org/details/study/566>

Project overview: This project encompasses safety-effectiveness evaluations of priority strategies from the AASHTO Strategic Safety Highway Plan. In order to achieve a national goal shared by the USDOT, AASHTO and Governors Highway

Safety Association (GHSA) to reduce the fatality rate to 1.0 per 100 million vehicle miles traveled and save 9,000 lives annually, these strategies need to be appropriately implemented. Data was collected and before and after safety effectiveness evaluations were performed at sites where selected safety strategies were being implemented.

Impact of the research on current practice: The researchers published briefs, reports and evaluations for a number of safety initiatives, including: pavement safety performance, centerline and shoulder rumble strips, crash modification factors, collision warning systems and wet reflective pavement markings. They have also enhanced other methods for future highway safety research.

This study's success has prompted an extension of the project through 2017.



Featured research *(continued)*

Service

MAPSS goal: To be a professional and proactive workforce that delivers high-quality and accurate products and services in a timely fashion.

Technology Transfer

The Office of Policy, Finance and Improvement (OPFI), Research and Library Services Unit provides information services for WisDOT staff and supports implementation of research results. Next are several highlights of the services provided in FFY 2015.

Transportation Synthesis Reports

A Transportation Synthesis Report (TSR) is an evaluation of other state transportation agencies' policies and procedures made by comparing, contrasting and combining information gathered from agencies' websites or through electronic surveys. Five TSRs were completed in FFY 2015. The topics covered included: law enforcement stress; traffic assignment models; extended duration incidents; "move over" laws; and recycled pavement materials.

Literature searches

A literature search is a systematic and thorough search of all types of published literature to identify a breadth of quality references relevant to a specific topic. Twenty-seven literature searches were completed in FFY 2015.

WisDOT library services

Library staff handled 670 customer inquiries, circulated 1,615 items (books, reports, periodicals and articles) and added 2,301 records to the library database.



Completed research projects

Program	Project ID	Performing organization	Principal investigator	Project budget	WisDOT project manager	Project title	Completion date
WHRP – Geotech	0092-08-11	UW – Madison	Dante Fratta	\$103,914	Robert Arndorfer	Effective Depth of Soil Compaction in Relation to Applied Compactive Energy	3/4/2015
WHRP – Geotech	0092-11-03	UW – Madison	Dante Fratta	\$74,000	Jeff Horsfall	Evaluating the Methodology and Performance of Jetting and Flooding Granular Backfill Materials	1/21/2015
WHRP – Geotech	0092-11-04	UW – Platteville	Mark Meyers	\$63,951	Jeff Horsfall	Analysis of Trends/ Correlations of Historical WisDOT Soil Lab Test Results Through Development of an Electronic Database	5/31/2015
WHRP – Rigid Pavement	0092-11-05	UW – Madison	Steven Cramer	\$252,000	James Parry	Laboratory Study of High Performance Curing Compounds for Concrete Pavement Phase I & II	3/18/2015
WHRP – Structures	0092-11-07	UW – Milwaukee	Al Ghorbanpoor	\$184,999	Bill Dreher	Aesthetic Coatings for Bridge Components	6/30/2015
WHRP – Flexible Pavement	0092-13-01	AMEC Environment & Infrastructure, Inc.	Gonzalo Rada	\$120,000	Barry Paye	Evaluation of Design Criteria and Field Performance of Rubblized Concrete Pavement Systems in Wisconsin – Phase 1 & 2	12/22/2014
WHRP – Geotech	0092-14-02	University of Missouri	Andrew Boeckmann	\$99,999	Jeff Horsfall	Performance of Pile Supported Sign Structures	4/1/2015
WHRP – Geotech	0092-14-03	Iowa State University	Pavana Vennapusa	\$150,000	Jeff Horsfall	Permeability Performance and Lateral Load for Granular Backfill behind Abutments	6/26/2015

Ongoing research projects

Program	Project ID	Performing organization	Principal investigator	Project budget	WisDOT project manager	Project title
WHRP – Geotech	0092-09-05	UW – Madison	Dante Fratta	\$109,893	Robert Arndorfer	Evaluation of the Foundation Movements of Transportation Structures
WHRP – Structures	0092-12-06	UW – Milwaukee	Habib Tabatabai	\$199,696	David Bohnsack	Evaluation of Thin Polymer Deck Overlays and Deck Sealers
WHRP – Geotech	0092-12-07	UW – Milwaukee	Hani Titi	\$94,989	Daniel Reid	Predicting Scour of Bedrock in Wisconsin
WHRP – Geotech	0092-12-08	University of Illinois	James Long	\$95,000	Jeff Horsfall	Static Pile Load Tests on Driven Piles into Intermediate-Geo Materials
WHRP – Geotech	0092-13-03	UW – Milwaukee	Qian Liao	\$74,998	Jeff Horsfall	Understanding and Complying with Storm Water Mitigation Guidelines from the EPA
WHRP – Rigid Pavement	0092-13-04	UW – Milwaukee	Konstantin Sobolev	\$199,185	Andrea Breen	Laboratory Study of Optimized Concrete Pavement Mixtures
WHRP – Structures	0092-13-05	UW – Milwaukee	Al Ghorbanpoor	\$120,000	Bill Dreher	Aesthetic Coatings for Concrete Bridge Components
WHRP – Structures	0092-13-06	Michael Baker, Incorporated	Jose Aldayuz	\$174,983	Shiv Gupta	Development and Implementation of the Next Generation Bridge Management System for Wisconsin – Phase 1 & 2
WHRP – Structures	0092-14-01	Western Michigan University	Upul Attanayake	\$84,999	William Oliva	Reflective Cracking between Precast Prestressed Box Girders
WHRP – Rigid Pavement	0092-14-05	UW – Madison	Steven Cramer	\$99,998	Kevin McMullen	Comparison of Fresh Concrete Air Content Test Methods & Analysis of Hardened Air Content in Wisconsin Pavements
WHRP – Flexible Pavement	0092-14-06	Advanced Asphalt Technologies, LLC	Ramon Bonaquist	\$224,992	Carl Johnson	Critical Factors Affecting Asphalt Concrete Durability
Policy	0092-14-14	WisDOT*	WisDOT	\$14,425	Matt Rauch	Copper Naphthenate Treatment Usage in Wood Sign Posts

*This project is in field pilot phase for a two-year period with inspection intervals every six months.

Ongoing research projects *(continued)*

Program	Project ID	Performing organization	Principal investigator	Project budget	WisDOT project manager	Project title
WHRP – Structures	0092-15-01	UW – Madison	Michael Oliva	\$75,000	Dave Kiekbusch	Precast/Prestressed Concrete Bridge Girder Cracking Phase II
WHRP – Structures	0092-15-02	Iowa State University	Brent Phares	\$64,959	Joshua Dietsche	Evaluation of Performance of Innovative Bridges in Wisconsin
WHRP – Structures	0092-15-03	South Dakota State University	Junwon Seo	\$70,000	Rita Lederle	Self-Consolidating Concrete for Prestressed Bridge Girders
WHRP – Flexible Pavement	0092-15-04	UW – Madison	Hussain Bahia	\$199,998	Barry Paye	Analysis and Feasibility of Asphalt Pavement Performance-Based Testing Specifications for the WisDOT
WHRP – Flexible Pavement	0092-15-05	Temple University	Ahmed Faheem	\$100,000	Erv Dukatz	Evaluation of WisDOT Quality Management Program (QMP) Activities and Impacts on Pavement Performance
WHRP – Geotech	0092-15-06	UW – Milwaukee	Hani Titi	\$119,997	Andrew Zimmer	Evaluation of the Long-Term Degradation and Strength Characteristics of In-situ Wisconsin Virgin Base Aggregates under HMA Pavements
WHRP – Geotech	0092-15-07	UW – Milwaukee	Rani Elhajjar	\$59,945	Andrew Zimmer	Correlation of ASTM D4833 and D6241 Geotextile Puncture Test Methods and Results for Use on WisDOT Projects
WHRP – Rigid Pavement	0092-15-08	UW – Madison	Steven Cramer	\$120,000	James Parry	Better Concrete Mixes for Rapid Repair in Wisconsin
WHRP – Flexible Pavement	0092-15-09	Behnke Materials Engineering, L.L.C.	Signe Reichelt	\$99,899	Barry Paye	WisDOT Asphaltic Mixture New Specifications Implementation- Field Compaction and Density Validation
WHRP – Flexible Pavement	0092-15-10	UW – Milwaukee	Konstantin Sobolev	\$49,990	Andrea Breen	Class F Fly Ash Assessment for Use in Concrete Pavement
Policy	0092-15-11	UW – Madison	Andrea Bill	\$77,000	Greg Patzer	Motorcycle Licensing and Safety

Pooled fund research

Project number	Title	FFY 2015 funding amount	WisDOT technical representative	Lead agency/ state
TPF-5(063)	Improving the Quality of Pavement Profiler Measurement	N/A	Bill Duckert –DTIM	FHWA
TPF-5(153)	Optimal Timing of Preventive Maintenance for Addressing Environmental Aging in HMA Pavements (MnROAD Study)	N/A	Steve Krebs – DTSD	Minnesota
TPF-5(183)	Improving the Foundation Layers for Concrete Pavements	N/A	Jeff Horsfall – DTSD	Iowa
TPF-5(193)	Midwest States Pooled Fund Crash Test Program	\$66,000	Erik Emerson –DTSD	Nebraska
TPF-5(206)	Research Program to Support the Research, Development, and Deployment of System Operations Applications of Vehicle Infrastructure Integration	\$50,000	Anne Reshadi –DTSD	Virginia
TPF-5(210)	In-situ Scour Testing Device	\$15,000	Najoua Ksontini – DTSD	FHWA
TPF-5(215)	Transportation Engineering and Road Research Alliance (TERRA)	\$10,000	Steve Krebs – DTSD	Minnesota
TPF-5(218)	Clear Roads (Test and Evaluation of Materials, Equipment and Methods for Winter Highway Maintenance)	\$25,000	Mike Sproul – DTSD	Minnesota
TPF-5(219)	Structural Health Monitoring System	N/A	Scot Becker – DTSD	Iowa
TPF-5(225)	Validation and Implementation of Hot-Poured Crack Sealant	N/A	Paulette Hanna – DTSD	Virginia
TPF-5(227)	Continued Advancements in Load and Resistance Factor Design (LRFD) for Foundations, Substructures and Other Geotechnical Features	N/A	Jeff Horsfall – DTSD	FHWA
TPF-5(232)	Study of the Impacts of Implements of Husbandry on Bridges	\$15,000	Travis McDaniel – DTSD	Iowa
TPF-5(233)	Technology Transfer Intelligent Compaction Consortium (TTICC)	\$9,000	Girum Merine –DTSD	Iowa
TPF-5(237)	Transportation Library Connectivity and Development	\$15,000	John Cherney – EXEC	Missouri
TPF-5(238)	Design and Fabrication Standards to Eliminate Fracture Critical Concerns in Two Girder Bridge Systems	N/A	Alex Pence – DTSD	Indiana
TPF-5(242)	Traffic and Data Preparation for AASHTO MEPDG Analysis and Design	N/A	Laura Fenley – DTSD	Louisiana
TPF-5(243)	Motorcycle Crash Causation Study	N/A	Greg Patzer – DSP	FHWA
TPF-5(247)	Field Testing Hand-held Thermographic Inspection Technologies Phase II	N/A	Travis McDaniel – DTSD	Missouri

Pooled fund research *(continued)*

Project number	Title	FFY 2015 funding amount	WisDOT technical representative	Lead agency/ state
TPF-5(253)	Member-level Redundancy in Built-up Steel Members	\$25,000	Alex Pence – DTSD	Indiana
TPF-5(254)	Valuation and Analysis of Decked Bulb T Beam Bridge	N/A	Dave Kiekbusch – DTSD	Michigan
TPF-5(255)	Highway Safety Manual Implementation	N/A	Brian Porter – DTSD	FHWA
TPF-5(259)	Imaging Tools for Evaluation of Gusset Plate Connections in Steel Truss Bridges	N/A	Joshua Dietsche – DTSD	Oregon
TPF-5(264)	Passive Forced Displacement Relationships for Skewed Abutments	N/A	James Luebke – DTSD	Utah
TPF-5(267)	Accelerated Performance Testing for the NCAT Pavement Test Track	\$110,000	Steve Krebs & Barry Paye – DTSD	Alabama
TPF-5(268)	National Sustainable Pavement Consortium	\$25,000	Girum Merine – DTSD	Virginia
TPF-5(270)	Recycled Materials Resource Center	N/A	Steve Krebs – DTSD	WisDOT
TPF-5(272)	Evaluation of Lateral Pile Resistance Near MSE Walls at a Dedicated Wall Site	\$10,000	Jeff Horsfall – DTSD	Utah
TPF-5(274)	Midwest Freight Pooled Fund	N/A	Lori Richter – EXEC	WisDOT
TPF-5(283)	The Influence of Vehicular Live Loads on Bridge Performance	\$50,000	Scot Becker – DTSD	FHWA
TPF-5(290)	Aurora Program	\$25,000	Mike Adams – DTSD	Iowa
TPF-5(292)	Assessing Roadway Traffic Count Duration and Frequency Impacts on AADT Estimations	\$6,000	Rhonda McDonald – DTIM	FHWA
TPF-5(295)	Smart Work Zone Deployment Initiative	\$40,000	Travis Feltes – DTSD	Iowa
TPF-5(297)	Improving Specification to Resist Frost Damage in Modern Concrete Mixtures	\$17,500	Chad Hayes – DTSD	Oklahoma
TPF-5(302)	PG+/Modified Binder Quality Control Criteria	\$25,000	Barry Paye – DTSD	WisDOT
TPF-5(303)	2015 Performance Measures Technical Transfer Conference and Asset Management Peer Exchange	\$12,000	Lori Richter – EXEC	Iowa
TPF-5(308)	The Use of Bridge Management Software in the Network Analysis of Big Bridges	\$35,000	Shiv Gupta – DTSD	Michigan
TPF-5(313)	Technology Transfer Concrete Consortium	\$8,000	Chad Hayes – DTSD	Iowa
TPF-5(315)	National Accessibility Evaluation	\$40,000	Tonia Rice – DTIM	Minnesota

Pooled fund research *(continued)*

Project number	Title	FFY 2015 funding amount	WisDOT technical representative	Lead agency/ state
TPF-5(316) formerly TPF-5(065)	Traffic Control Device (TCD) Consortium	\$20,000	Travis Feltes – DTSD	FHWA
TPR-5(317) formerly TPF-5(099)	Evaluation of Low Cost Safety Improvements	\$5,000	Brian Porter – DTSD	FHWA
TPF-5(319) formerly SPR-2(207)/ TPF-5(052)	Transportation Management Center Pooled Fund Study	\$50,000	Paul Keltner – DTSD	FHWA
TPF-5 (320) formerly TPF-5(021)	Base Funding for the North Central Superpave Center	\$25,000	Barry Paye – DTSD	Indiana
TPF-5(326)	Develop and Support Transportation Performance Management Capacity Development Needs for State DOTs	\$10,000	Lori Richter – EXEC	Rhode Island

Note: N/A indicates that the pooled fund is ongoing, but no additional funds were required by participating agencies for FFY 2015.

Wisconsin Highway Research Program* (WHRP)

WHRP Steering Committee

Lori Richter, Chair
WisDOT, EXEC, OPFI

Jack Arseneau
Wisconsin Earthmovers
Association

Joe Balice
FHWA – Wisconsin

Scot Becker
WisDOT, DTSD, Bureau
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Matt Bronson
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Angela Pakes Ahlman
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Ali Soleimanbeigi
WHRP Administrative Specialist

WHRP Technical oversight committee chairs

FLEXIBLE PAVEMENTS

Barry Paye
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WisDOT, DTSD, Bureau
of Technical Services

GEOTECHNICS

Jeff Horsfall
WisDOT, DTSD, Bureau
of Technical Services

RIGID PAVEMENTS

Barry Paye
WisDOT, DTSD, Bureau
of Technical Services

STRUCTURES

Bill Oliva
WisDOT, DTSD, Bureau
of Structures

Wisconsin Department of Transportation* (WisDOT)

WisDOT Research & Library Advisory Committee

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WisDOT, EXEC, OPFI

Joe Balice
FHWA – Wisconsin Division

John Kranz
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Mark Snider
WisDOT, DMV

WisDOT Office of Policy, Finance and Improvement, research and library staff

Lori Richter
Chief, Performance, Policy
and Research Section

Diane Gurtner
Supervisor, Research and
Library Services Unit

Wendy Brand
Librarian

John Cherney
Head Librarian

Lynn Hanus
Program and Policy Analyst–
National Programs

Jennifer Walejko
Program and Policy Analyst–
Policy Research and Budget

*Rosters and staff as of June 1, 2015.

The FFY 2016 Annual Report will provide updated rosters and reflect staffing updates after this date.

WisDOT Research

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