

## CURRENT RESEARCH PROJECTS - 2004

### DEPARTMENT OF FISHERIES & WILDLIFE MICHIGAN STATE UNIVERSITY

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<u>Project Title</u>	<u>Faculty/P.I.(s)</u>	<u>Funding Source</u>
Using Population and Community Dynamic Models and Quantitative Fisheries Analysis to Promote Improved Fisheries Management in the Great Lakes.	James R. Bence	Michigan Department of Natural Resources, Fisheries Division
The Importance of Trophic Interactions for Salmonine Fisheries of the Great Lakes.	James R. Bence and Norine Dobiesz	Michigan Department of Natural Resources, Fisheries Division
Improving Fishery Stock Assessments in the Great Lakes, with Application to Whitefish and Lake Trout in 1836 Treaty Waters	James R. Bence, Brian Linton, Michael Wilberg	Michigan Department of Natural Resources, Fisheries Division and USFWS
Application of Decision Analysis to Great Lakes Fishery Management.	James R. Bence, Michael L. Jones, Wen Dai	Various including Great Lakes Fishery Commission, Michigan DNR, USFWS
Technical Support to Estimate Sea Lamprey Damage to Fish Populations in Lakes Michigan and Huron.	James R. Bence, Michael L. Jones, Wen Dai, Emily Szalai	Great Lakes Fishery Commission
Age-structure Stock Assessment of Yellow Perch in Lake Michigan.	James R. Bence and Michael Wilberg	Great Lakes Fishery Commission and U.S. Fish and Wildlife Service
Development of Multi-lake Management Strategies for Michigan's Inland Lakes.	Mary Bremigan and Nancy Nate	Michigan Department of Natural Resources, Fisheries Division
A Multi-scaled Landscape-context Model to Predict Abiotic and Biotic Lake Characteristics.	Mary Bremigan and Patricia Soranno	United States Geological Survey
Predicting Chemical and Biological Characteristics of Lakes Using Landscape-context Features From Multiple Spatial Scales.	Mary Bremigan , Patricia Soranno, and Kendra Spence Cheruvellil	MAES Competitive Grants Program
Managing Michigan Lakes: Evaluating Effects of Watersheds and Habitat Perturbation on Lake Resources	Mary Bremigan, Patricia Soranno, Aaron Jubar, and Tyler Wagner	Michigan Department of Natural Resources, Fisheries Division
Developing Decision Tools for Inland Lake Management through Field Sampling and Statistical Models Linking Lakes to Landscape Context	Mary Bremigan	Michigan Department of Natural Resources, Fisheries Division
Developing a Lake Classification System for Michigan Inland Lakes	Patricia Soranno, Mary Bremigan, James Breck, Kevin Wehrly, and Sherry Martin	
Bioassessment of Inland and Great Lakes Wetlands.	Thomas M. Burton and graduate students (Ken Davenport, Rebecca Kolar, Jamie Zybytowski)	Michigan Department of Environmental Quality (MDEQ)/EPA; MDEQ/NOAA
Effects of Beach Grooming on Great Lakes Wetlands	Thomas M. Burton and graduate students (Ken Davenport, Rebecca Kolar, Jamie Zybytowski)	Michigan Department of Environmental Quality (MDEQ)/NOAA

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Invertebrate of the Muskegon River (Part of a Large Ecosystem Study of the Muskegon River Watershed).	Thomas M. Burton and graduate students (Ken Davenport, Rebecca Kolar, Jamie Zybytowski)	Great Lakes Fishery Trust
Effects of White-tail Deer and Elk Browsing on Forest Resources and Wildlife Habitat Quality.	Henry Campa III and Scott Winterstein	
Effects of Simulated Browsing of Northern Hardwoods on Stand Attributes and Nutritional Qualities.	Henry Campa III and Dean E. Beyer Jr.	Michigan Department of Natural Resources, Wildlife Division
Quantifying Elk Movement Patterns, Social Interaction with White-tailed Deer, and Estimating the Population Size and Demographics in Michigan	Henry Campa, III, Scott Winterstein, and Dan Walsh	Michigan Department of Natural Resources, Wildlife Division; Rocky Mountain Elk Foundation
Landscape Ecology of White-tailed Deer in Agro-forest Ecosystems: A cooperative Approach to Support Management	Henry Campa, III, Scott Winterstein, Shawn Riley, Brent Rudolph, and Tim Hiller	Michigan Department of Natural Resources, Wildlife Division; Safari Club International; Michigan Agricultural Experiment Station
Potential of White-tailed Deer Population Management Using an Ecosystem Management Paradigm.	Henry Campa III, Kelly Millenbah, R. Ben Peyton, Frank Lupi and Alexandra Felix	Michigan Department of Natural Resources, Wildlife Division
Modeling Habitat Ecology and Population Viability of the Eastern Massasauga Rattlesnake in Southwestern Lower Michigan	Henry Campa, III, Kelly Millenbah, Kristin Wildman	Michigan Department of Natural Resources, Wildlife Division
Moose Population Assessment	Henry Campa III, Scott Winterstein and Dean E. Beyer Jr.	Michigan Department of Natural Resources, Wildlife Division
Historical Trends in Habitat Suitability of Michigan's Upper Peninsula for the Canada Lynx	Henry Campa, III, Kelly Millenbah, Gary Roloff, Dean Beyer, Jr., Dan Linden	Michigan Department of Natural Resources, Wildlife Division; US Forest Service
Fisheries Stewardship and Heritage Outreach/Research Initiative.	Shari L. Dann, Brandon Schroeder and Angelita Alvarado	Michigan Department of Natural Resources, Fisheries Division
Evaluation of Impacts and Outcomes of the Great Lakes Fisheries Leadership Initiative	Shari L. Dann, Brandon Schroeder, Geoffrey Habron and John Schwartz	Michigan Sea Grant Extension, and Great Lakes Sea Grant Program Leaders
Evaluation of the National 4-H Sportfishing Program and of Michigan's Project FISH.	Shari L. Dann	National 4-H Sportfish Program
Evaluation of the Earth Tomorrow Program.	Shari L. Dann and Carey Rogers	National Wildlife Federation
Legal Frameworks of Great Lakes Fisheries Management	Tracy Dobson and Jeff Henquinet	Department of Fisheries and

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		Wildlife, Great Lakes Fishery Commission
Community Participation in Natural Resources Management in Malawi.	Tracy Dobson and Aaron Russell	Fulbright and MSAID/MNDP
Great Lakes Women Advocates	Tracy Dobson and Sonia Joseph	Department of Fisheries and Wildlife
Use of Soybean Products in Feeds for Grow-out of Yellow Perch	Donald L. Garling	North Central Regional Aquaculture Center
Use of Soybean Products in Atlantic Salmon Feed.	Donald L. Garling	U.S. Soybean Council
Information Exchange, Citizen Water Monitoring and Agricultural Best Management Practices.	Geoffrey Habron, Bill Northcott, Lois Wolfson and Jennifer Call	USDA, Cooperative State Research Education and Extension Service (CSREES), Section 406 Integrated Research, Education, and Extension Competitive Grants Program, Water Quality
Watershed Action Through Education and Research MSU-WATER Social Assessment	Geoffrey Habron, Michael Kaplowitz and Ralph Levine	Michigan State University
Impact of Removal of Stronach Dam, Manistee County, Michigan.	Daniel B. Hayes and Bryan Burroughs	Michigan Department of Natural Resources, Fisheries Division
Evaluation of Habitat Improvement Structure in Impoundments in the Au Sable River Systems.	Daniel B. Hayes, Mary Bremigan and Todd Wills	Michigan Department of Natural Resources, Fisheries Division
Productive Potential of The Pine River, Alcona County, MI	Daniel B. Hayes and Bradley Thompson	Michigan Department of Natural Resources, Fisheries Division
Developing a Plan for Inventorying Michigan's Aquatic Resources.	Daniel B. Hayes	Michigan Department of Natural Resources, Fisheries Division
An Evaluation of the Red Cedar Watershed Near the MSU Campus.	Daniel B. Hayes and Jo Anne Latimore	Michigan State University
Evaluation of Whole-tree Additions on the Au Sable and Manistee Rivers.	Daniel B. Hayes	Michigan Department of Natural Resources, Fisheries Division
Role of Vertebrate Hosts in the Invasion of Lyme Disease in Southwest Michigan	Graham J. Hickling and Jean Tsao	MSU Center for Emerging Infectious Disease
Tactical Modeling of Bovine TB in Michigan Deer	Graham J. Hickling	USDA APHIS
Ecology and Control of Tick Vectors of Lyme Disease	Edward D. Walker, Graham J. Hickling and Jean Tsao	Centers for Disease Control
Identification of Diseases and Host Defense Mechanisms in the Zebra Mussel	Mohamed Faisal, Paul Coussens and Graham Hickling	Michigan Sea Grant
Recruitment Variation in Great Lakes Sea Lamprey Populations.	Michael L. Jones, Heather Dawson and Wenjing Dai	Great Lakes Fishery Commission
Decision analysis for Lake Erie Percid Management	Michael L. Jones and Wenjing Dai	Great Lakes Fishery

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Evaluation of an Alternative Model of Stream Selection for Sea Lamprey Control	Michael L. Jones	Commission Great Lakes Fishery Commission
Causes of Natural Mortality in Lake Whitefish Populations	Michael L. Jones and Mohamed Faisal	Great Lakes Fishery Trust
An Improved Model for Sea Lamprey Metamorphosis	Michael L. Jones and Andrew Treble	Great Lakes Fishery Commission
Development of an Economic Injury Level Analysis for Sea Lamprey in Lakes Huron and Michigan	Michael L. Jones and Jim Bence	Great Lakes Fishery Commission
The Function and Identity of a Male Lamprey Pheromone	Weiming Li, Sang Seon Yun and Mike Siefkes	Great Lakes Fishery Commission
P-450 of Atlantic Salmon Fish	Weiming Li and Christopher Rees	NMFS
Sea Lamprey Sexual Behavior	Weiming Li and Mara Bryan	Great Lakes Fishery Commission
Effects of Sea Lamprey Sex Pheromone on Mating Competitiveness	Weiming Li and Brad Young	Great Lakes Protection Fund
Electro Reception in the Sea Lamprey	Weiming Li and Yu-Wen Chung-Davidson	Great Lakes Fishery Commission
Cellular and Molecular Mechanisms of Olfaction	Weiming Li and Hong Wu	NIH/NIDCD
P-450 of Lake Trout	Weiming Li and Christopher Rees	Great Lakes Fishery Commission
Pacific Lamprey Bile Acids	Weiming Li and Sang-Seon Yun	Bonneville Power Administration
Pacific Lamprey Population Genetics	Weiming Li, Kim Scribner and Mara Bryan	Bonneville Power Administration
The Effects of Landscape Change on Breeding Birds in a Rapidly Urbanizing Watershed	Jianguo Liu, Christopher Lepczyk, Li An and Marc Linderman	US Environmental Protection Agency
A System Approach to Assessing Impacts of Multiple Human Activities on Wildlife Habitat	Jianguo Liu	National Science Foundation
Ecological and Economic Effects of Forest and Wildlife Management: A Framework and Tools for Holistic Management Across Landscapes	Jianguo Liu, Frank Lupi, Michael Walters, Ed Laurent, Joseph LeBouton and Laila Racevskis	Michigan Department of Natural Resources, Wildlife Division
Classification of Panda Habitats Using Remote Sensing Data	Jianguo Liu and Marc Linderman	National Science Foundation
Spatial and Temporal Interrelationships Between Human Population and the Environment	Jianguo Liu, Li An, Scott Bearer, Guangming He and Marc Linderman	National Institutes of Health
Integrating Ecology and Economics for Managed Forest Landscapes	Jianguo Liu, Frank Lupi and Michael Walters	USDA NRI
Planning for Bird Conservation in Managed Forests	Jianguo Liu and Kim Hall	The Nature Conservancy
Potential of Deer Population Management Using an Ecosystem	Frank Lupi, Kristy Wallmo, R. Ben	Michigan Department of Natural

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Management Paradigm	Peyton and Peter Bull	Resources, Wildlife Division
Modeling Distribution of Vertebrates for Michigan GAP	Brian Maurer, Genevieve Nesslage and Jennifer Stillen	Michigan Department of Natural Resources
Geographic Variation in Population Dynamics	Brian Maurer	EPA
Buruli Ulcer Disease in Ghana: The Role of Aquatic Insects in Transmission	Richard Merritt, Eric Benbow, Ryan Kimbirauskas	WHO, NIH grant (pending)
The Hyporheic Macroinvertebrate Fauna of Some SE Alaskan Streams	Richard Merritt, Rick Edwards (U.S Forest Service), Bill Taylor, Matt Wesener	Pacific Northwest Science US Forest Service Labs, Juneau, AK
The Development of a Nonwadable Rivers Assessment Protocol for Biological Integrity and Physical Habitat	Richard Merritt, Kelly Wessell, Ken Cummins (Humboldt State, CA) and Dave Allan (Univ. of Mich.)	DEQ
The Influence of Marine Nutrients From Salmon on Stream Ecosystems in Alaska and Effects of Different Timber Management Practices on Headwater Streams	Richard Merritt, Christian LeSage, Peggy Ostrom, Ryan Kimbirakauskas, Gary Lamberti (Notre Dame) and JoAnna Lessard	USDA, Departments of Fisheries and Wildlife and Entomology
Effects of Road Salt on Marsh Invertebrates	Richard Merritt and Eric Benbow	Michigan Department of Transportation.
Attitudes Toward Natural Resources and Their Management: A Survey of Michigan Residents	Angela G. Mertig and Melissa Koval	Michigan Department of Natural Resources, Wildlife Division
Environmental Attitudes and Animal Use: The Case of Fur-harvesting in Michigan	Angela G. Mertig and R. Ben Peyton	Michigan Agricultural Experiment Station
Rural Landowners and Urban Sprawl: Examining Influences on Landowner Decisions to Sell or Develop Their Land	Angela G. Mertig and Michael Mascarenhas	MSU Office of the Provost
Stakeholder Reactions to Interagency Natural Resource Management: A Case Study of Michigan's Bovine Tuberculosis Eradication Project	Angela G. Mertig and Meegan Dorn	Michigan Department of Natural Resources, Wildlife Division
Attitudes Toward Wolves in Michigan	Angela G. Mertig, Rik Scarce (Lyman Briggs), Pat Lederle (MDNR) and Melissa Koval	USFWS Michigan Department of Natural Resources, Wildlife Division
National Reaction to Bovine Tuberculosis in Michigan: A Survey of Natural Resource, Agriculture and Community Health Agency Personnel in the U.S. and Canada	Angela G. Mertig and Melissa Koval	USDA
Locating Important Habitat Types Along West Michigan Shorelines and Dunes: a Novel Approach to Predictive Management for Threatened and Endangered Species	Kelly F. Millenbah and Katherine J. Kahl	Michigan Department of Natural Resources – Wildlife Division
Evaluating the Ecological Contributions of State Game and Wildlife Areas in the Context of a Human-dominated Landscape	Kelly F. Millenbah and Sarah L. Panken	Michigan Department of Natural Resources – Wildlife Division

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Synthesizing and Critiquing Grassland Ecology and Management and Grassland Wildlife-habitat Relationship Research	Kelly F. Millenbah, Henry Campa, III and Nicole E. Lamp	Michigan Department of Natural Resources – Wildlife Division
Modeling Habitat Ecology and Population Viability of the Eastern Massasauga Rattlesnake in Southwestern Lower Michigan	Kelly F. Millenbah and Henry Campa, III (lead)	Michigan Department of Natural Resources – Wildlife Division
Historical and Potential Habitat Suitability of Michigan's Upper Peninsula for the Canada Lynx	Kelly F. Millenbah, Henry Campa, III (lead) Gary J. Roloff, and Dean Beyer	Michigan Department of Natural Resources – Wildlife Division, U.S. Fish and Wildlife Service, and U.S. Forest Service
Assessment of Furbearer Population Size and Effects of Landscape Features on Distribution and Population Structure	Kelly F. Millenbah, Kim Scribner (lead), Scott R. Winterstein, Dwayne Etter, and Bronwyn Williams	Michigan Department of Natural Resources – Wildlife Division
Forest Management Strategies and Relationship to Brown-headed Cowbird Dynamics	Kelly F. Millenbah and Lauren A. Bailey	
Environmental Attitudes and Animal Use: The Case of Fur-harvesting in Michigan.	R. Ben Peyton and Angela Mertig	Mich. Agr. Experiment Station
Potential of Deer Population Management Using an Ecosystem Management Paradigm.	R. Ben Peyton, Frank Lupi, Kristy Walmo and Peter Bull	Michigan Department of Natural Resources, Wildlife Division
Social Carrying Capacity of Black Bear in Southern Michigan	R. Ben Peyton and Peter Bull	Michigan Department of Natural Resources - Wildlife Division
Survey of Michigan Hunters Knowledge and Attitudes Toward Quality@Deer Management	R. Ben Peyton and Peter Bull	Michigan Department of Natural Resources - Wildlife Division
Attitudes, Behavior and Effort of Hunters in the TB Area	R. Ben Peyton, Frank Lupi and Peter Bull	Michigan Agricultural Experiment Station
Evaluation of Public Involvement in the MDNR-Wildlife Division	R. Ben Peyton and Peter Bull	MDNR Wildlife Division
An Investigation of Michigan Deer Hunter's Baiting Behaviors During the 2001 Deer Hunting Season	R. Ben Peyton, Peter Bull and Scott Winterstein	USDA
2003 Fur Harvester Opinion Survey	R. Ben Peyton and Peter Bull	MDNR-Wildlife
Impact of Induced Molt Migration of Canada Geese in Michigan.	Harold H. Prince, Dave Luukkonen and Curt Mykut	Michigan Department of Natural Resources, Wildlife Division
Identification of Fall and Winter Hunter Harvest Composition of Admixed Canada Geese Based on Genetic Analysis of Hunter Tail Fans.	Harold H. Prince, Kim Scribner and Rainy Inman	Michigan Department of Natural Resources, Wildlife Division
Improving use of Human Dimensions Information in Great Lakes	Shawn Riley and George Berghorn	Great Lakes Fishery Commission

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Fishery Management		
Enhancing Conservation of Eastern Massasauga Rattlesnakes in Michigan: Human Dimensions of Rare Reptile Management	Shawn Riley and Rebecca Christoffel	Michigan Department of Natural Resources
Environmental Factors Affecting Frequency and Rates of Deer-vehicle Collisions in Southern Michigan	Shawn Riley and Krishnan Sudharsan	Michigan Department of Natural Resources, Michigan Department of Transportation
Development of Information and Education Programs to Alleviate Deer-vehicle Collisions	Shawn Riley and Alix Marcoux	Michigan Department of Transportation, Michigan Institute for Applied Policy Research
Adaptive Impact Management: Improving Decision-making Capacity for Stakeholders in Fish and Wildlife Management	Shawn Riley and Stacy Lischka	Michigan Department of Natural Resources, Michigan Agriculture Experiment Station
Improving Quality and Impact of Wildlife Management Outreach in Michigan	Shawn Riley and Jordan Pusateri	Michigan Department of Natural Resources
Water Quality and Public Health Risks in the Great Lakes.	Joan Rose	Michigan Sea Grant
Genosenser for Detection of Viruses in Coastal Waters	Joan Rose	National Science Foundation
Epidemiology of Groundwater and Waterborne disease	Joan Rose	Environmental Protection Agency
Bioinformatics Pilot Program for the Assessment of Virulence-Factors and Activity Relationships (VFARs) for Waterborne Disease Microorganisms	Joan Rose	Environmental Protection Agency
Occurrence and Removal of Blue Green Algae and Their Toxins by Water Treatment	Joan Rose	American Water Works Association Research Foundation
Microbiological Monitoring for Central Florida Artificial Recharge Demonstration Program.	Joan Rose	
Reduction of Pathogens, Indicator Bacteria and Alternative Indicators by Wastewater Treatment and Reclamation Processes	Joan Rose	Water Environmental Research Foundation
Human Fecal Indicator Bacteria and Pathogenic Viruses in Offshore Reefs and Human Recreational Risk in Nearshore Waters of the Florida Keys	Joan Rose	Environmental Protection Agency
Microbiology Research Unit/Food and Waterborne Diseases Integrated Research Network	Joan Rose	NIH
Development of a Management Plan for Lake Sturgeon Within the Great Lakes Basin Based on Population Genetic Structure.	Kim Scribner and Pat DeHaan	U.S. Fish and Wildlife Service
Genetic Assignment of Larval Percentage as a Means of	Kim Scribner and Michael Jones	Great Lakes Fishery Commission

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Assessing Mechanisms Underlying Adult Reproductive Success and Larval Dispersal.		
Identification of Fall and Winter Hunter Harvest Composition of Admixed Canada Gees in Michigan.	Kim Scribner, Harold Prince and Rainy Inman	Michigan Department of Natural Resources
Optimization of Landscapes for Population Persistence: Integration of Conservation	Kim Scribner and Doug Bruggeman	Environmental Protection Agency
Use of Genetic Tagging to Estimate Black Bear Population Size in the Northern Lower Peninsula of Michigan.	Kim Scribner, Scott Winterstein and Brian Dreher	Michigan Department of Natural Resources
Status Assessment of Remnant Lake Sturgeon Stocks in the Lake Michigan Basin.	Kim Scribner, Rob Elliott and Patrick DeHaan	Great Lakes Fishery Trust
Integrated Study of Behavioral and Morphological Development in Free-living Carnivores.	Kim Scribner, Barbara Lundrigan and Kay Holekamp	National Science Foundation
Understanding and Predicting Landscape Dynamics: Integration of Ecological Human Dimensions for Ecosystem Management.	Patricia A. Soranno, Jianguo Liu, Angela Mertig, Sarah Walsh and Chris Lepczyk	Department of Natural Resources, Fisheries Division
The Effects of Nonpoint Source Pollution From Agricultural Runoff Within the Barataria Basin.	Patricia A. Soranno and Stacy Nelson	NASA
Classifying Michigan Lakes by Integrating Fish Assemblages, Landscape Features and Water Quality.	Patricia A. Soranno and Mary Bremigan	Michigan Department of Natural Resources – Fisheries Division
Predicting Chemical and Biological Characteristics of Lakes Using Landscape-context Features From Multiple Spatial Scales.	Patricia Soranno and Mary Bremigan	MAES Competitive Grants Program
Rehabilitation of a Fish Population in a Multijurisdictional Water Basin	William W. Taylor and Nancy J. Leonard	Great Lakes Fishery Commission, Michigan State University
The Implication of Social Networks and Communication Between Lake Michigan Charter Boat Fishing Operations	William W. Taylor and Katrina Mueller	Great Lakes Fishery Trust
Understanding the Role of the IATTC From a Changing Business Model Perspective	William W. Taylor and Shauna Oh	National Marine Fisheries Service, Inter-American Tropical Tuna Commission, Michigan State University
Seasonal and Diel Barhythermal Habitat Selection by Lake Trout <i>Salvelinus namaycush</i> and Lake Whitefish <i>Coregonus clupeaformis</i> in Lake Huron	William W. Taylor and Roger A. Bergstedt	Great Lakes Fishery Commission
Temporal and Spatial Comparison of Lake Whitefish Production Related to <i>Diporeia</i> spp. Density in Selected Regions of the Upper Great Lakes	William W. Taylor and Jud F. Kratzer	Michigan State University
Full Disclosure: the Conundrum of Corporate Commitments to Conservation	William W. Taylor and Laury Parramore	US Fish and Wildlife Service
Quantification of Compartments in Foodwebs and Their Use in	William W. Taylor and Ann E. Krause	Great Lakes Fishery Commission,

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Measuring Structural Changes in a Foodweb of Lake Michigan		Michigan State University
Amphibians as Indicators of Successful Wetland Mitigations	Scott R. Winterstein and Susan Jones	MSU Department of Fisheries and Wildlife
Analysis of Survival Data From Radio Telemetry Studies.	Scott R. Winterstein	MAES
Eradicating Bovine TB in White-tailed Deer in Michigan: Identifying Avenues of Within-herd Transmission and Documenting Deer Movement Patterns..	Scott R. Winterstein, Henry Campa III, Stephen M. Schmidt and Darian Muzo	MI Agr. Experiment Station, Michigan Department of Natural Resources, Wildlife Division and Safari Club International
Impacts of Rodenticides on Manuls (Pallas' Cats) in Mongolia	Scott R. Winterstein, Graham Hickling and Ann Winters	MSU Department of Fisheries and Wildlife
Moose Population Assessment	Scott R. Winterstein, Henry Campa III, Dean A. Beyer Jr. and Eric Heimerl	Michigan Department of Natural Resources, Wildlife Division and Safari Club International
Wildlife Population Surveys Assessment	Scott R. Winterstein, Harry Hill, Bill Moritz, Brent Rudolph and Sarah Cook	Michigan Department of Natural Resources, Wildlife Division
Potential of Deer Population Management Using an Ecosystem Paradigm	Scott R. Winterstein, Henry Campa III, Kelly Millenbah, R. Ben Peyton, Brian Maurer, Frank Lupi, Bill Moritz and Brent Rudolph	Michigan Department of Natural Resources, Wildlife Division
Use of Genetic Tagging to Estimate Black Bear Population Size in the Northern Lower Peninsula or Michigan	Scott R. Winterstein, Kim Scribner, Tim Ries, Larry Visser, Brian Dreher and Veronica Lopez	Michigan Department of Natural Resources, Wildlife Division Safari Club International
White-tailed Deer Population Demographics and Management and Impacts on Forest Composition and Structure at Fort Custer Training Center	Scott R. Winterstein, Henry Campa III and Shawn Riley	Michigan Department of Military and Veterans Affairs
Evaluating Information Exchange, Citizen Monitoring and Best Management Practices Within Agricultural Watersheds	Lois Wolfson, Geoffrey Habron and Bill Northcott	USDA CSREES
Regional Water Quality Leadership for North Central States in USEPA Region 5	Lois Wolfson, Jon Bartholic and Ruth Kline-Robach	USDA CSREES
Information Dissemination and Technology Transfer Training Programs	Lois Wolfson and Ruth Cline-Robach	USGS
Enhancing Native Vegetation Along Lake Shoreline Demonstration Project	Lois Wolfson and Howard Wandell	MSUE
Building Capacity of E. coli Monitoring by Volunteer Water Quality Networks: A Multi-State Approach	Lois Wolfson, Jim Anderson, Barb Luikkonen, Jon Harbor, Jerry Iles, Kris Stepenek, and Mary Skopac	USDA CSREES