

2015 Michigan Invasive Species Grant Program - Projects Receiving Funding (19)

Project Title	Brief Project Description	Applicant Name	Applicant Organization	Project Counties	Grant Amount
Focus Area 1: Regional cooperative prevention, detection, eradication, and control					
Lake St. Clair Collaborative Invasive Species Control	The Lake St. Clair CISMA, a partnership of governmental and non-governmental organizations and property owners, will work to restore the landscape throughout the Lake St. Clair watershed through invasive species control of Phragmites australis, black swallow-wort, Japanese knotweed, European frogbit, and flowering rush and to formalize a regional framework for continued collaboration. The project area is defined as primarily Macomb and St. Clair counties, but activities will impact portions of Oakland and Wayne counties following watershed and eco-civic boundaries.	Lisa Brush	The Stewardship Network	St. Clair, Macomb, Oakland, Wayne	\$254,526
Mid Michigan Cooperative Invasive Species Management Project	This project will establish the Mid-Michigan Cooperative Invasive Species Management Area (MM CISMA) encompassing Ingham, Clinton, Eaton and Ionia Counties. The CISMA will facilitate cooperative prevention, early detection, rapid response, and control of terrestrial and aquatic invasive species across jurisdictional lines, with an emphasis on black swallow-wort, Japanese knotweed, phragmites and Eurasian watermilfoil and will increase monitoring for potential invaders including giant knotweed, pale swallow-wort, Chinese yam and European frogbit.	Michelle Beloskur	Ingham Conservation District	Ingham, Eaton, Clinton, Ionia	\$226,580
Habitat Matters: Targeting Source Populations	As success in controlling outlier populations continues, the Northwest Michigan Invasive Species Network seeks to expand the proven partner- and collaborator-driven "Habitat Matters" approach to focus on controlling large, high-risk populations of invasive phragmites, baby's breath, and Japanese knotweed. The Northwest Michigan Invasive Species Network will work with local government, landowners and businesses to utilize proactive strategies to reduce the spread of invasive species and prevent new introductions.	Katie Grzesiak	Grand Traverse Conservation District	Leelanau, Benzie, Grand Traverse, Manistee	\$156,400
Western Peninsula Invasive Coalition Multifaceted Invasive Management Project	The Western Peninsula Invasive Species Coalition will engage a multifaceted approach to prevent and mitigate the damaging effects of terrestrial and aquatic invasive species in Iron, Gogebic, and Ontonagon Counties. This approach includes increasing volunteer participation in mapping and treating invasive species and expanding outreach through educational programs and activities to prevent the introduction and spread of invasives.	Jen Ricker	Iron Conservation District	Iron, Ontonagon, Gogebic	\$152,857
Establishing and Implementing a Sustainable CISMA in Oakland County MI	The Oakland County Cooperative Invasive Species Management Area (CISMA) will devise a strategic plan for integrated detection, prevention, and control of state-priority invasives in Oakland County, including phragmites, swallow-wort, knotweed, and flowering rush. An expansion of current control efforts for these species will also include response plans for potential detections of flowering rush, European frogbit, and Chinese yam. Outreach goals include increasing landowner participation and building community capacity for collective management of invasives.	Lisa Brush	Stewardship Network	Oakland	\$243,775

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SW x SW Corner CISMA Tackles Invasive Species: Education to Eradication	The SW x SW Corner CISMA, representing Berrien, Cass and Van Buren counties, will develop a strategic plan for control and eradication of priority species, including phragmites, black and pale swallow-wort, Japanese and giant knotweed, European frogbit, flowering rush and Chinese yam. A trained strike team of staff and volunteers will document, map and treat both terrestrial and aquatic invasive species. Outreach efforts will provide public and private land owners and managers with tools to identify and prevent invasive species.	AJ Brucks	Van Buren Conservation District	Berrien, Cass, Van Buren	\$292,353
Formation of the Barry, Calhoun, & Kalamazoo Counties (BCK) CISMA	The Barry, Calhoun, Kalamazoo (BCK) CISMA will develop a comprehensive, strategic, and long-term approach to manage invasive species including invasive phragmites, black and pale swallow-wort, Japanese and giant knotweed, European frogbit, flowering rush, and Chinese yam. A strike team will survey and verify high-priority areas and use their results to create a comprehensive GIS database to prioritize, implement, and monitor treatments. Outreach efforts will raise citizen awareness and encourage involvement in detection and monitoring.	Sarah Reding	Kalamazoo Nature Center	Barry, Calhoun, Kalamazoo	\$276,846
Focus Area 2: Integrated and novel approaches for managing aquatic and terrestrial species emphasizing biocontrol					
Novel approaches to European frogbit detection and management	Novel approaches to European frogbit detection and management will advance efforts to detect and control European frogbit by: 1) scientifically evaluating novel control approaches in Great Lakes wetlands, and 2) developing reliable, cost-effective methods to remotely detect frogbit using high-resolution drone imagery, a time-series of multispectral satellite images, newly developed analytical techniques and ground-truthing	Shane Lishawa	Loyola University of Chicago	Chippewa	\$283,510
Focus Area 3: Implementing high priority projects for terrestrial invasive species					
Developing an Effective Lethal Control Strategy for Feral Swine in Michigan	This project will employ field surveys, radio-telemetry, behavioral patterning, winter aerial surveys, and environmental DNA to detect feral swine within a core area in Arenac, Bay, Midland and Gladwin Counties. The focus will be on refining detection and removal techniques in the core area and then adapting these techniques to identify and prioritize areas for statewide removal.	Anthony Duffiney	USDA Wildlife Services	Midland, Gladwin, Arenac, Bay	\$250,000
Slowing and Preventing Oak Wilt	Slowing and Preventing Oak Wilt will focus on local eradication of satellite populations, with subsequent prevention efforts in areas of Manistee, Mason, Lake, Leelanau, Grand Traverse, Benzie, Osceola, Mecosta, Wexford, and Missaukee counties. A key step in prevention is educating citizens regarding the no-cut season for oak, methods of oak-wilt movement, and the impact of oak wilt on forest resources. Emphasis is also placed on forging long-term partnerships to sustain organizational capacity and implement treatment practices in perpetuity.	Susan Spencer	Manistee Conservation District	Manistee, Benzie, Grand Traverse, Wexford, Lake, Mason, Missaukee, Osceola, Leelanau, Mecosta	\$115,025
Focus Area 4: Prevention of new invaders through outreach and education					
RIPPLE: Statewide Education about Invasives in Aquarium and Pond Trade	The project will implement the new <u>R</u> educe <u>I</u> nvasive <u>P</u> et and <u>P</u> Lant <u>E</u> scapes (RIPPLE) statewide outreach campaign to prevent introduction of aquatic invasive species via the aquarium and pond trades. Through various media, RIPPLE educates hobbyists, retailers, and organizations about containment and disposal of potentially invasive organisms.	Jo Lattimore	Michigan State University	Statewide	\$138,314

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Education and Outreach for the Nursery and Landscape Industry, Natural Shoreline Professionals, Gardeners and the General Public	This effort focuses on preventing the spread of invasive plant species through education and outreach to the nursery and landscape industry; national shoreline professionals; master gardeners, gardeners and consumers. Materials will be used at industry conferences, natural shoreline training classes, MSU Extension programming, posted on websites, promoted to gardening groups, and distributed at home and garden shows.	Amy Frankmann	Michigan Nursery and Landscape Association	Statewide	\$39,431
Pathways of Spread	Pathways of Spread will reduce recreational and vehicular transport of invasive species in Lake, Mason, Missaukee, Osceola, and Wexford counties targeting lake and river recreationists, ORV trail users, and county road commissions. Boot-brush stations and educational signage will be installed at motorized trail heads to promote equipment cleaning. The pilot program will survey and treat invasives on this portion of the North Country Trail and coordinate with road commissions to map and treat invasive species along roadways.	Vicki Sawicki	Wexford Conservation District/North Country CISMA	Lake, Mason, Missaukee, Osceola, Wexford	\$158,338
Reduce Oak Wilt with Collaborative Education	The Arboriculture Society of Michigan will spearhead an oak wilt education campaign that includes K-12 education modules encouraging citizen science, conferences and field demonstrations for professionals and a centralized website useful to multiple audiences. The campaign will focus on oak wilt identification and prevention to increase detection, reporting and disease management. Grant funds will support tree tissue analysis and technical support to assist private sector tree professionals with oak wilt detection and reporting.	Annie Kruse	Arboriculture Society of Michigan	Statewide	\$115,000
Focus Area 5: Invasive phragmites management and site restoration in coastal wetland areas					
Upper Peninsula Phragmites Coalition	The Upper Peninsula Phragmites Coalition will build on current work to control phragmites on 600 acres in the Upper Peninsula, including areas along the Great Lakes shoreline as well as outlier populations in remote locations. In addition, the coalition will identify and train stewardship groups that will be able to sustain control efforts through maintenance activities after funding has ended.	Darcy Rutkowski	Upper Peninsula Resource Conservation and Development	Entire Upper Peninsula	\$210,282
Restoration of Inner Saginaw Bay Coastal Ecosystems and Community Socio-Cultural Connections through Phragmites Treatment, Control, and Sustainable Long-Term Eradication	The project will treat and control invasive Phragmites on 725 acres of Saginaw Bay shoreline with an integrated, adaptive, long-term monitoring system for the purpose of restoring coastal wetlands and native shore lands to their natural conditions and re-establishing socio-cultural connections between community residents and the Saginaw Bay.	Laura Ogar	Bay County	Arenac, Bay, Tuscola	\$346,398
Comprehensive Invasive Phragmites Management Planning	The goal of the Comprehensive Invasive Phragmites Management Planning project is to develop a regional, long-term strategic plan for management and restoration of Phragmites-infested coastal wetlands and other shoreline habitats in the Saginaw Bay area. The plan integrates modeling, remote sensing, land conservation practices and field monitoring. Strategies will be tailored to site conditions for initial treatments and also determine future monitoring and treatment intervals and quantify costs. Project results and tools will be shared with the larger restoration community.	Laura Bourgeau-Chavez	Michigan Tech University	Arenac, Bay, Tuscola, Huron	\$203,177

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Focus Area 6: Other projects of demonstrated urgent need					
Modeling Ballast Water Management Strategies to Slow Invasive Species Spread	Modeling Ballast Water Management Strategies to Slow Invasive Species Spread updates a dynamic spatial model that identifies locations where ballast water can most effectively be managed to prevent the further spread of invasive species and make predictions on where an invader might be spread by the shipping pathway within the Great Lakes basin to inform management response.	Jonathan Bossenbroek	University of Toledo	Statewide	\$67,276
Controlling the Spread of Invasive Insects through an Improved Firewood Supply Chain in Michigan	Firewood movement is identified as prime factor for spreading invasive insects. A survey of Michigan's firewood supply chain will characterize current sanitization processes and evaluate their efficiency by random sampling across the chain. A statewide educational outreach program will promote safe firewood manufacturing and marketing practices.	Pascal Nzokou	Michigan State University	Statewide	\$69,912