

DATE: 2/5/2018
TO: Interested parties
FROM: Austin Scott, Fiscal Analyst
RE: Invasive Species

Invasive species are plants, animals, or insects that are not native to Michigan and pose a threat to agriculture, natural resources, or the environment when introduced in the state. Invasives often reproduce rapidly and spread in areas where they have no natural predators, thereby allowing them to alter or take over the local habitat. Typically these species are imported to the state by humans either directly or indirectly; they have been found to latch on to watercrafts, cargo, and even shoe soles traveling from one location to another.

Michigan established its Invasive Species Program (ISP) in 2015 as a cooperative effort between the Department of Agriculture and Rural Development, Department of Environmental Quality, and Department of Natural Resources. These three departments work together under the aquatic invasive species state management plan¹ and the terrestrial invasive species state management draft plan to address the following goals:

- Prevent the introduction of new invasive species to Michigan
- Develop an early detection and response program for new invasions
- Manage and control established invasive species
- Limit the spread of established invasives within the state

The ISP categorizes as follows:

<u>List</u>	<u>Profile</u>	<u>Examples</u>
Watch	Identified as a threat but never found in Michigan or limited in distribution	Asian longhorned beetle, bighead carp, kudzu
Prohibited	Not widely distributed in Michigan, management and control techniques are unavailable	Carolina fanwort, emerald ash borer, feral swine
Restricted	Established in Michigan, management and control techniques are available	Autumn olive, Japanese weatherfish, phragmites

Source: Michigan Invasive Species Program

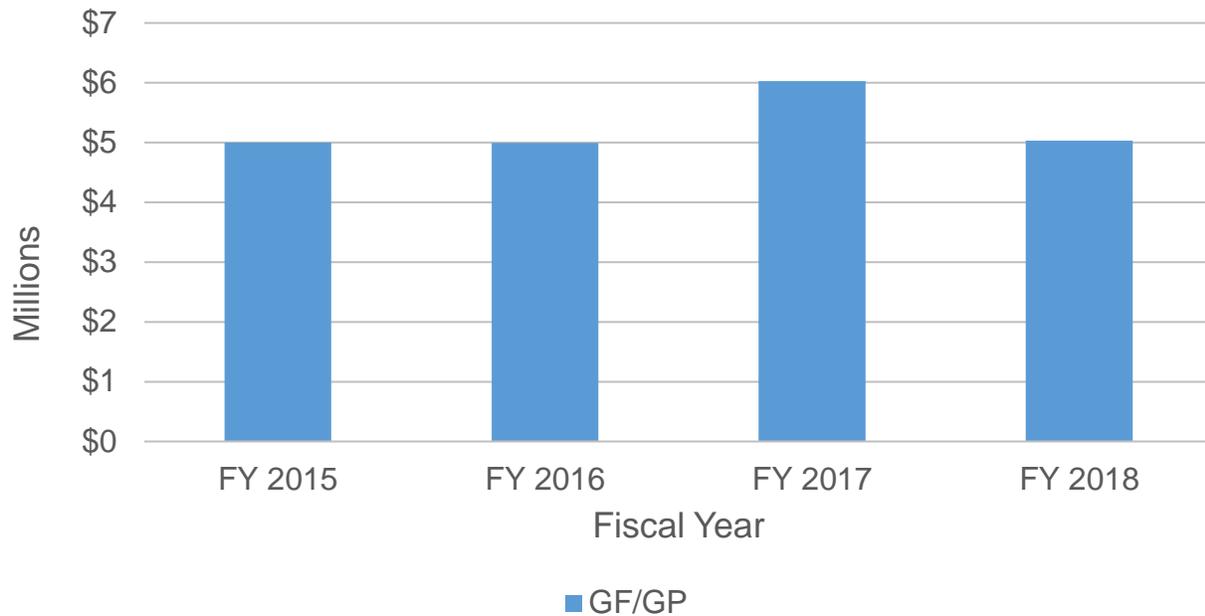
The Natural resources and Environmental Protection Act (1994 PA 451) specifies species on the prohibited and restricted lists.

The DNR received an initial appropriation of \$5.0 million GF/GP for invasive species prevention and control in fiscal year (FY) 2014-15, which has continued annually through the current FY 2017-18. An additional \$1.0 million in one-time GF/GP was appropriated in FY 2016-17 to fund the Great Lakes Invasive Carp Challenge to prevent silver and bighead carp from migrating into Lake Michigan². This funding history is illustrated in Figure 1:

¹ https://www.anstaskforce.gov/State%20Plans/MI_2013_Revised_AIS_SMP_Table_Appendices.pdf

² www.michigan.gov/carpchallenge

Figure 1
DNR Invasive species prevention and control funding history



Source: House Fiscal Agency

Boilerplate section 251 of the DNR’s annual budget specifies that not less than \$3.6 million of this annual appropriation be expended for grants for “the prevention, detection, eradication, and control of invasive species.” The ISP has established the Michigan Invasive Species Grant Program to annually administer these awards to qualifying applicants. Eligible applicants include units of government, non-profits, and universities; awards range between \$25,000 and \$400,000 depending on the nature of the project. The tables below provided by the DNR summarize the 2017 grant recipients by focus area; they are followed by a map of Michigan’s Cooperative Invasive Species Management Areas (CISMAs) provided by the Michigan Invasive Species Coalition.

Table A
Prevention, detection, and control activities by CISMAs

Project	Organization	Counties	Grant
Jackson, Lenawee, & Washtenaw CISMA	Jackson County Conservation District	Jackson, Lenawee, Washtenaw	\$150,000
Formation of the Southern Michigan Invasive Species Team	St. Joseph County Conservation District	Branch, Hillsdale, St. Joseph	149,700
Strike Team Formation to Combat High Priority Invasives	Mason-Lake Conservation District	Lake, Mason, Mecosta, Missaukee, Osceola, Wexford	135,000
Implementing the Oakland County CISMA Strategic Invasive Species Management Plan	The Stewardship Network	Oakland	100,000
Keeping North Country CISMA Viable	Mecosta Conservation District	Lake, Mason, Mecosta, Missaukee, Osceola, Wexford	60,000
CAKE CISMA Core Functions	Antrim Conservation District	Antrim, Charlevoix, Emmet, Kalkaska	60,000
Base Functions for the Northwest Invasive Species Network	Grand Traverse Conservation District	Benzie, Grand Traverse, Leelanau, Manistee	60,000
Maintaining Core Functions of the Mid-Michigan Cooperative Invasive Species Management Area	Ingham Conservation District	Clinton, Eaton, Ingham, Ionia	60,000
Oakland County CISMA Coordination and Management	The Stewardship Network	Oakland	60,000
Continuing Core Funding for the SWxSW Corner CISMA	Van Buren Conservation District	Berrien, Cass, Van Buren	60,000
Saginaw Bay CISMA Core Functions	Chippewa Nature Center	Arenac, Bay, Clare, Genesee, Gladwin, Gratiot, Huron, Iosco, Isabella, Lapeer, Livingston, Midland, Saginaw, Sanilac, Shiawassee, Tuscola	60,000
Lake St. Clair CISMA Coordination and Management	The Stewardship Network	Macomb, St. Clair	60,000
CUPCWMA Core Functions Campaign	Alger Conservation District	Alger, Delta, Marquette, Schoolcraft	59,300
Barry, Calhoun, Kalamazoo CISMA – Support of Core Operations	Kalamazoo Nature Center	Barry, Calhoun, Kalamazoo	56,000
TOTAL – 14 awards			\$1,130,000

**Table B
Advancing aquatic invasive plant control in Michigan waters**

<u>Project</u>	<u>Organization</u>	<u>Counties</u>	<u>Grant</u>
Statewide risk assessment and adaptive management of European frogbit	Loyola University Chicago	Alpena, Bay, Chippewa, Huron, Iosco, Kent, Tuscola,	\$386,100
Identifying high-risk hybrid Eurasian watermilfoil genotypes to improve control	Montana State University	statewide	371,300
TOTAL – 2 awards			\$757,400

**Table C
Detection and surveillance for terrestrial invasive species**

<u>Project</u>	<u>Organization</u>	<u>Counties</u>	<u>Grant</u>
Multi-CISMA Eastern Lake Michigan Hemlock Woolly Adelgid Survey	The Nature Conservancy	Antrim, Benzie, Charlevoix, Emmet, Grand Traverse, Leelanau, Manistee, Mason, Van Buren	\$363,000
Surveying and Mapping the Distribution of Hemlock Woolly Adelgid within Infested Counties	Ottawa Conservation District	Allegan, Muskegon, Oceana, Ottawa	200,000
TOTAL – 2 awards			\$563,000

**Table D
Reducing the risk of spreading invasive species through firewood transport**

<u>Project</u>	<u>Organization</u>	<u>Counties</u>	<u>Grant</u>
Firewood Safety Education and Outreach in Michigan	Michigan State University	statewide	\$188,300
TOTAL – 1 award			\$188,300

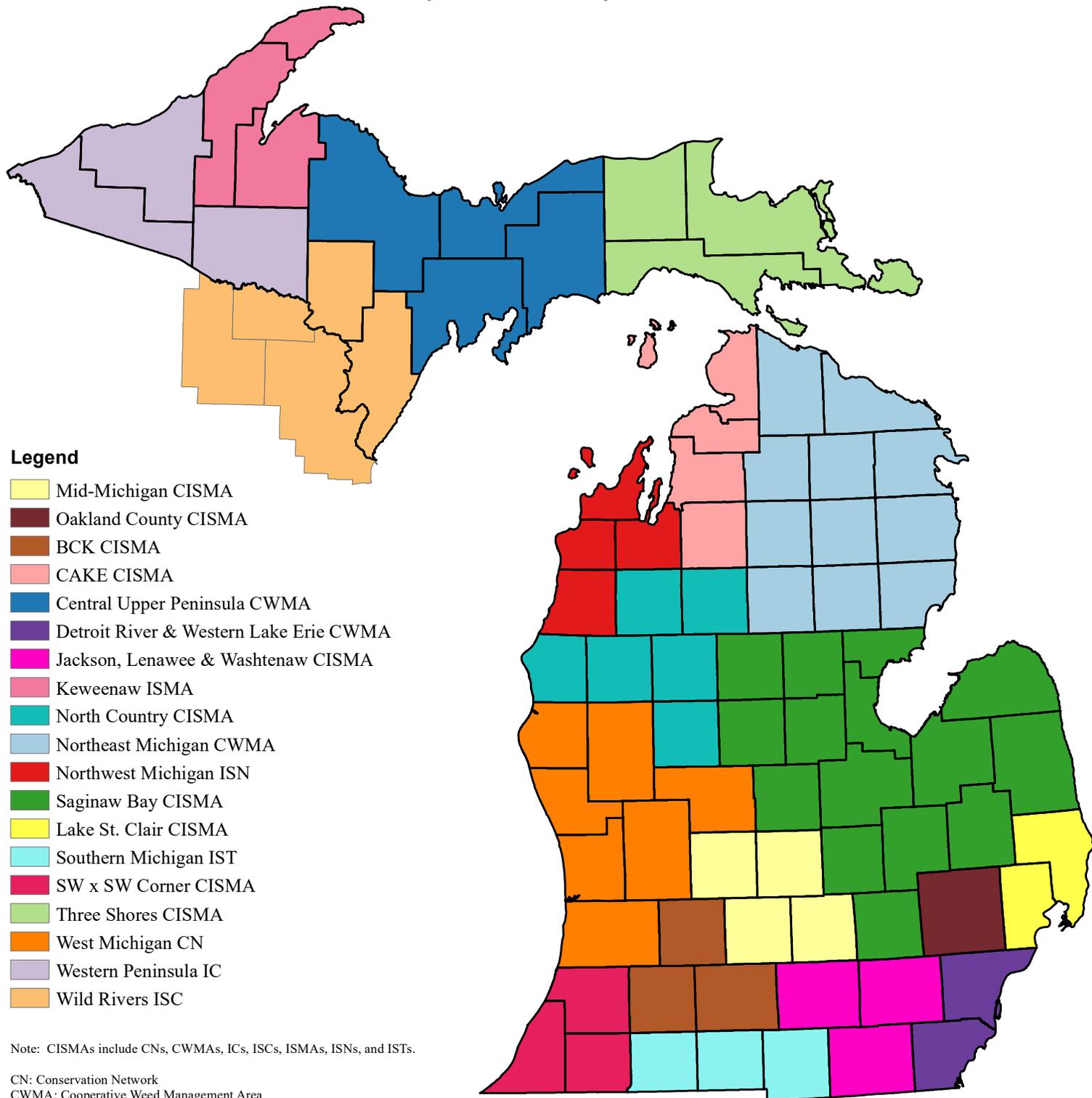
**Table E
Prevention of invasive species introduction and spread through recreation**

<u>Project</u>	<u>Organization</u>	<u>Counties</u>	<u>Grant</u>
Invasive Species Paddling Detection, Reporting and Public Awareness Program	Michigan State University	statewide	\$200,000
TOTAL – 1 award			\$200,000

Table F
Other projects of demonstrated urgent need

<u>Project</u>	<u>Organization</u>	<u>Counties</u>	<u>Grant</u>
Treating Hemlock Woolly Adelgid in West Michigan	Ottawa Conservation District	Allegan, Muskegon, Oceana, Ottawa	\$299,400
Evaluating Management Actions to Control Invasive Grass Carp in Lake Erie	Michigan State University	Lake Erie	250,400
Midwest Invasive Species Information Network – Bridging the gap and closing the loop on invasive species data in Michigan	Michigan State University	statewide	211,500
TOTAL – 3 awards			\$761,300

Michigan Cooperative Invasive Species Management Areas (CISMAs)



Legend

- Mid-Michigan CISMA
- Oakland County CISMA
- BCK CISMA
- CAKE CISMA
- Central Upper Peninsula CWMA
- Detroit River & Western Lake Erie CWMA
- Jackson, Lenawee & Washtenaw CISMA
- Keweenaw ISMA
- North Country CISMA
- Northeast Michigan CWMA
- Northwest Michigan ISN
- Saginaw Bay CISMA
- Lake St. Clair CISMA
- Southern Michigan IST
- SW x SW Corner CISMA
- Three Shores CISMA
- West Michigan CN
- Western Peninsula IC
- Wild Rivers ISC

Note: CISMAs include CNs, CWMA, ICs, ISCs, ISMAs, ISNs, and ISTs.

CN: Conservation Network
 CWMA: Cooperative Weed Management Area
 IC: Invasives Coalition
 ISC: Invasive Species Coalition
 ISMA: Invasive Species Management Area
 ISN: Invasive Species Network
 IST: Invasive Species Team

For more information on your local CISMA, visit the Michigan Invasive Species Coalition's website at www.michiganinvasives.org

Updated January 16, 2018
 Michigan Invasive Species Coalition