



# Michigan Department of Natural Resources Fisheries Division Fiscal Year 2018 -- Annual Report

## INTRODUCTION

Michigan has no shortage of exceptional freshwater fishing – supported by copious amounts of water and more than 150 species of fish. With great opportunity comes great responsibility, something the Michigan Department of Natural Resources (DNR), Fisheries Division does not take lightly.

In this 2018 annual report, you'll read about the work of Fisheries Division, aligned with our 2018–2022 strategic plan, *Charting the Course: Fisheries Division's Framework for Managing Aquatic Resources*, which provides guidance for how we manage and support Michigan's world-class fisheries for today and tomorrow.

## ENSURE HEALTHY AQUATIC ECOSYSTEMS & SUSTAINABLE FISHERIES

### ***Invasive Carp Challenge***

Invasive (Asian) carp, in particular bighead and silver carp, continue to threaten the Great Lakes. These invasive fish are established and abundant in the Illinois River in Illinois, which is connected to Lake Michigan through the Chicago Area Waterway System (CAWS). An electric barrier is in place in the CAWS, but there are continued concerns about fish passage. To address these issues and promote new ideas, DNR staff worked with Governor Snyder's office to implement the Great Lakes Invasive Carp Challenge. The Carp Challenge, which concluded in March 2018, selected 10 solutions to be pursued as potential technologies to prevent movement of invasive carp into the Great Lakes. The global search for solutions garnered more than 350 responses from 27 countries. The winning ideas included a wall of painful cavitation bubbles as a deterrent, retrofitting a lock with a velocity barrier, a chemical lock treatment concept, and an automated visual process to select and trap carp moving through an area. The DNR is working with federal research labs, interested parties and resource agencies to promote the advancement of these ideas in hopes they will be implemented to protect the Great Lakes from the introduction of invasive carp.

### ***Rearing the Fish of 10,000 Casts***

One of the toughest species reared by the DNR's fish production system is the Great Lakes muskellunge – reared exclusively at Wolf Lake State Fish Hatchery in Mattawan by staff truly dedicated to the process. The Great Lakes muskellunge-rearing program began in 2011. The process begins with an electrofishing trip on the Detroit River in late May and is followed by extensive rearing efforts at the facility throughout the summer and fall months, including plenty of time in circular indoor rearing tanks and then a trip to outdoor ponds. When the time comes to send them on their way, they'll head to one of several destinations. Two stocking locations, Thornapple Lake in Barry County and Lake Hudson in Lenawee County, will eventually serve as broodstock lakes. This means when

the muskellunge populations have reached the appropriate level in those lakes, eggs will be collected from the adult fish, taking the place of the Detroit River electrofishing efforts. This program has developed over time as staff gained a better understanding of the most effective way to rear these exciting sport fish. The 2018 rearing efforts were particularly fruitful, with more than 22,000 fish averaging nearly 10 inches in length stocked for future angling opportunities – a great triumph considering the program was on hold in 2017 due to a viral hemorrhagic septicemia virus outbreak in Lake St. Clair that threatened to contaminate future efforts.

### ***Lake Kathleen Dam Removal***

The Maple River near Pellston is now flowing free. The Maple River Dam, which formed Lake Kathleen, was removed in 2018 by Conservation Resource Alliance (CRA) and a group of partners, including Fisheries Division. This dam was a 1,200-foot long and about 15-foot high earthen embankment that created the 42-acre Lake Kathleen. Both the east and west branch of the Maple River flowed into the impoundment. When the Maple River Dam was removed, the sill and spillway of the dam was also removed, restoring a more natural, riverine channel. This project would not have been possible if not for the collaboration of all partners involved and the support of past and present dam owners. There were several complexities associated with this removal, including the presence of Hungerford's Crawling Water Beetle (an endangered aquatic insect) and the Michigan Monkey Flower (a threatened plant), as well as the fact the dam served as a sea lamprey barrier. An environmental assessment helped to address these concerns and kept the project moving forward. Additional support came in the form of funding through the DNR's Aquatic Habitat Grant Program to the tune of \$430,168.

### **FY2018 Accomplishments:**

- Continued implementation of the 2000 Great Lakes and 2007 Inland Consent Decrees with Tribal governments in 1836 Treaty-ceded territory.
- Continued internal preparations for negotiation of the 2020 Consent Decree with Tribal governments in the 1836 Treaty-ceded territory.
- Actively contributed to the Asian Carp Regional Coordinating Committee to assess, control and manage the spread of silver and bighead carp in the Great Lakes basin.
- Worked with the Great Lakes Mississippi River Interbasin Study executive steering committee to promote the installation of additional control technologies in the Chicago Area Waterway System at Brandon Road Lock and Dam to protect the Great Lakes from the spread and introduction of bighead and silver carps.
- Actively participated on the State of Michigan Aquatic Invasive Species Core Team, a multi-agency committee working to prevent invasive species introductions and spread.
- Received external Great Lakes Restoration Initiative funding and provided oversight of control and eradication projects related to grass carp in Lake Erie and red swamp crayfish infestations in the southeastern Lower Peninsula. Additional external funds were received to implement aquatic invasive species early detection monitoring using environmental DNA in inland lakes.
- Led the implementation of Michigan's Invasive Species Grant Program and distributed \$3.6 million in grant funding to support strategic partnerships, response efforts and research of terrestrial and aquatic invasive species issues across Michigan.
- Provided hydrological and fluvial geomorphology (channel shape) expertise on stream habitat rehabilitation projects ranging from future dam removals to excessive erosion sites to channel re-establishment and road-stream crossing improvements, which will protect and rehabilitate aquatic habitat leading to enhanced and sustainable fish communities.

- Assisted conservation and angling groups with development of specific monitoring protocols for projects in unique watersheds and trained citizen volunteers in proper data collection and assessment of road/stream crossings and stream geomorphology across the state.
- Worked with stakeholders and consultants and served on multiple committees for the “Restore the Rapids in Grand Rapids” project at the current location of Sixth Street Dam.
- Worked with the Michigan Department of Environmental Quality (DEQ) to resolve violations and concerns associated with vegetation clearing and dredging within designated drains and to provide input on designs for drain improvements that would benefit aquatic resources.
- Reviewed and provided comments on approximately 50 DEQ/Michigan Department of Transportation permit applications to ensure consideration of aquatic habitat protection.
- Provided guidance and technical assistance to Genesee County Parks for dam removals and public access sites along the Flint River.
- Assisted with the evaluation of measures to mitigate and protect water crossed by Line 5 throughout Michigan and reviewed risks associated with the Straits of Mackinac Line 5 crossing.
- Reviewed and issued 50 state-commercial fishing licenses applicable to four Great Lakes.
- Modified 10 Fisheries Orders and developed one new order to adjust regulations and expand angler opportunities.
- Reviewed and recommended approval of 107 fish management plans, including stocking, that were developed to maintain and enhance fisheries and fishing opportunities throughout the state.
- Operated four streamside lake sturgeon rearing facilities on the Black (Cheboygan County), Kalamazoo (Kalamazoo County), Cedar (Menominee County) and Ontonagon (Ontonagon County) rivers to help rehabilitate lake sturgeon populations.
- Operated six fish blocking weirs on five Michigan streams to capture returning adult steelhead, coho salmon and Chinook salmon. Eggs and milt were collected from these fish to perpetuate statewide rearing and stocking programs.

Egg-take highlights from FY2018:

- More than 3 million Chinook salmon eggs were collected at the Little Manistee River and Swan River weirs during the fall migration. This was enough to fully meet Michigan’s needs as well as a request from Illinois.
- More than 6.7 million coho salmon eggs at the upper Platte River weir were collected during the fall migration, fully meeting in-state and out-of-state requests.
- Just over 4.7 million steelhead eggs were collected at the Little Manistee River weir during the spring migration, fully meeting in-state egg needs and filling requests from Indiana and Ohio.
- Stocked approximately 26.5 million fish (including nine species of trout and salmon – Atlantic, Chinook and coho salmon; brook, brown, lake and rainbow trout; two strains of steelhead and splake [hybrid cross of brook trout and lake trout]; and walleye, muskellunge, lake sturgeon and catfish) weighing more than 350 tons at 1,016 sites representing 516 stocking trips, driving more than 119,000 miles to stock fish. Fish stocking contributes an estimated \$394 million in economic activity from fishing and fishing-related expenditures.
- Experienced no significant fish losses in the entire fish production system from mechanical malfunctions or human error.

- Conducted an extensive review of yellow perch management in Michigan resulting in a new statewide regulation strategy.
- Reviewed more than 100 Natural River permit applications ensuring protection of riparian zones on 12 watersheds.
- Provided input on hydropower projects administered by the Federal Energy Regulatory Commission, thereby helping to protect habitat, water quality and public access on 19 watersheds throughout the state.
- Funded six projects totaling \$1,250,000 through the Aquatic Habitat Grant Program, which aims to improve fish and other aquatic organisms by protecting and rehabilitating aquatic habitat.
- Funded four projects totaling \$350,000 through the Dam Management Grant Program, which aims to provide funding and technical assistance to local and state units of government, nonprofit groups and individuals to manage dam removal, repair dams or pursue dam-related major maintenance projects that will enhance aquatic resources and fishing opportunities.
- Funded four projects totaling \$467,963 through the Habitat Improvement Account (HIA), which is managed by Fisheries Division and was established to mitigate resource impacts from hydropower projects using funds to implement habitat improvement and research projects on the Au Sable, Manistee and Muskegon river watersheds.
- Funded four projects totaling \$164,995 through the Midwest Glacial Lakes Partnership, which is coordinated by Fisheries Division, to conserve inland lake fish habitat.

## PROMOTE EFFECTIVE COMMUNICATION, OUTREACH & EDUCATION

### ***Live Tours Featured the Work of Fisheries Division***

In 2018 the DNR harnessed the power of social media by giving its Facebook followers several behind-the-scenes tours of various fisheries management efforts, hosted by Fisheries Division. Live or pre-recorded video tours were filmed at Harrietta and Thompson state fish hatcheries, as well as on board the Research Vessel *Channel Cat*. During the Harrietta visit, the brown trout rearing process was highlighted, while at Thompson, rearing of walleye, steelhead and Chinook salmon were showcased. Meanwhile, on the R/V *Channel Cat*, viewers got to see the annual sturgeon setline survey up close with numerous adult lake sturgeon sampled while the cameras were rolling! These videos provide a great outlet to demonstrate how fisheries management works and give those who watch an opportunity to engage with questions or comments and get immediate responses.

### ***Roadmaps for Fishing Michigan's Great Lakes***

Michigan is home to more than 3,000 miles of Great Lakes shoreline, dotted with numerous port towns that offer unprecedented access to some of the best freshwater fishing in the world. But to the novice, or unfamiliar angler, all that water can be a little daunting. When should you go fishing at these ports? What species will you find there? To answer these questions, Fisheries Division developed four Great Lakes Fishing Roadmaps intended to serve as starting points for those interested in fishing lakes Erie, Huron, Michigan and Superior, and the St. Clair System. Local staff were happy to share their insider knowledge to produce these maps.

### FY2018 Accomplishments:

- Held 15 spring Conversations and Coffee public meetings across the state in 2018. The major topics covered were regulations, fish stocking options and fishing opportunities.

- Recognized 2,698 successful entries in the Master Angler program in the year of 2018 – that’s over 500 more than were recognized in 2017.
- Shared information through various topics courtesy of the department’s email distribution tool; including the Weekly Fishing Report to more than 77,000 subscribers, the quarterly youth-friendly Fish Bites e-newsletter to more than 22,000 subscribers, a monthly resource-sharing email to the Fishing in Michigan list with more than 370,000 subscribers, state fish hatchery content to more than 8,000 subscribers, and Free Fishing Weekend details to more than 31,000 subscribers.
- Reached nearly 190,000 people through three different Facebook LIVE videos featuring condensed tours of some of Michigan’s state fish hatcheries to encourage additional visits and insider glimpses of the work done at these facilities.
- Supported the DNR’s Hook, Line and Sinker program hosted at state parks, recreation areas and visitor centers that taught 9,582 new anglers in 2018 – that’s a nearly 9% increase from the previous year.
- Hosted more than 46,000 people at Oden and Wolf Lake state fish hatcheries’ visitor centers. These visitors participated in programs ranging from interpreter-guided tours of the hatcheries to structured catch-and-release fishing programs for kids.
- Saw more than 7,000 visitors to Platte River and Thompson state fish hatcheries who got up-close views of how we rear fish.
- Engaged more than 10,000 individuals who visited two of the state’s egg-take facilities, the Boardman River Weir in Traverse City and the Little Manistee River Weir in Stronach.
- Assisted with the yearly implementation of the Salmon in the Classroom program that had 270 classrooms in 263 schools and around 26,000 students participating in rearing and stocking Chinook salmon.
- Spoke with more than 42,000 anglers as part of the Statewide Angler Survey Program that collects fishing data at Great Lakes ports and select inland waters.

## **IMPROVE & BUILD STRATEGIC RESOURCE PARTNERSHIPS**

### ***The Value of Citizen Input***

Fisheries Division has Citizen Fishery Advisory committees for each Great Lake (Michigan, Superior, Huron and Erie/Lake St Clair), as well as a northern inland lakes committee for the rivers and lakes of the Inland Waterway Chain, and the Warmwater and Coldwater resources steering committees. These committees are comprised of representatives from angling organizations, conservation groups and commercial interests. The committees provide input, advice and recommendations to Fisheries Division relating to fisheries management. These groups provide a great opportunity to engage a wide variety of stakeholders to share information and allow groups to share concerns related to fisheries management. This is usually one of the first places consultations take place with the public relating to potential changes in management.

### ***Working Together to Rehabilitate Stream Habitat***

Cuttle Creek is a small stream in St. Clair County that runs through the Marysville Municipal Golf Course before entering the St. Clair River. In 2009, a DNR fisheries survey found an abundant and diverse fish community in the lower portion of this creek. Unfortunately, those fish were blocked from accessing areas further upstream due to a perched culvert that stopped all fish passage. Even further upstream, Cuttle Creek had been manipulated into a pond on the golf course that essentially eliminated the normal stream processes. These impediments reduced fish use and diversity. In 2016,

a habitat project was completed to remove the perched culvert and pond area and restore about 3,000 feet of stream habitat through the golf course. This work was a collaborative effort among federal, state and municipal agencies along with engineering consultants. Post-restoration monitoring by Fisheries Division found spawning northern pike in the restored area of the stream, as well as a diverse group of minnows and suckers that are often referred to as forage species. This habitat restoration was one of the projects that led to the St. Clair River being delisted as an Area of Concern with fish and wildlife beneficial use impairments.

### ***Distribution of Cisco in Southwest Michigan***

Cisco (also known as lake herring) are a member of the Whitefish family and are, or have been, present in only 153 of Michigan's 11,000 inland lakes. Roughly half of those lakes are found in a band across the southern Lower Peninsula between Cass and Oakland counties. Cisco require cold, well-oxygenated water. This requirement makes them especially vulnerable to habitat loss due to nutrient enrichment and climate change. The cisco is currently listed as a threatened species in Michigan and is identified as a focal species in the state's Wildlife Action Plan. Due to their elevated conservation status, local staff have been updating information on the distribution of cisco in Southwest Michigan. Since 2004, fall netting surveys have been conducted on lakes that historically supported these fish. To date, the presence of cisco has been documented in 25 of the southern Lower Peninsula lakes where the species was known to exist. Future work will continue to inventory and document other existing populations in the area.

### **FY2018 Accomplishments:**

- Partnered with U.S. Fish & Wildlife Service and other agencies to stock 1.1 million cisco in Lake Huron.
- Stocked more than 12,000 juvenile lake sturgeon in various public waters across the state, in conjunction with several partners.
- Maintained and developed partnerships with diverse entities to achieve common goals by reviewing and issuing 302 scientific collectors permits, allowing permit holders to survey and possess aquatic species for research or education purposes.
- Administered the Fishing Tournament Information System (FTIS) online where more than 2,250 bass fishing tournaments were registered with the DNR.
- Surveyed more than 400 bow fishing anglers to develop a better understanding of this growing sport in Michigan.
- Supported Cooperative Invasive Species Management Areas (CISMAs) by providing technical advice through the Michigan Invasive Species Grant Program; facilitated formation of CISMAs which resulted in complete statewide coverage; and assisted with organizing all-CISMA meetings to promote collaboration.
- Participated in the Planning Committee for the Michigan Inland Lakes Convention.
- Engaged in the Michigan Natural Shoreline Partnership, Michigan Chapter of the North American Lake Management Society, and Michigan Inland Lakes Partnership to achieve Fisheries Division's strategic objectives on inland lakes.
- Gained valuable assistance from 74 individuals who volunteered more than 1,161 hours of service.
- Cooperatively managed fisheries of four Great Lakes with multiple state, tribal, U.S. federal and Canadian agencies, facilitated through the Great Lakes Fishery Commission.

- Assisted with compilation of fisheries data from 12 natural resource agencies (State, Tribal, Federal) to update 15 lake whitefish and 11 lake trout stock assessment models, leading to the calculation and adoption of harvest limits to be used for management of state and tribal fisheries.
- Collaborated with Tribal natural resource agencies to monitor walleye populations and establish safe harvest levels for inland lakes.

## **DEVELOP STRATEGICALLY FOCUSED ASSESSMENT & DECISION SUPPORT TOOLS**

### ***Lake Michigan Zonal Management***

Zonal management, a concept developed through focus groups, was implemented in 2018 to prioritize salmon and trout stocking. Zonal management considers regional differences in Lake Michigan, such as water temperature, depth, nutrients, reefs, harbors and human use when developing stocking and regulation recommendations. Lake Michigan is a huge body of water and there are large differences in habitat – especially between the southern and northern portions. The southern half tends to be shallower, warmer and has large, warm rivers that are higher in nutrients. It has a sandy bottom with sandy shorelines mixed with dunes and highly-populated harbors. Meanwhile, the northern half tends to be deeper, cooler and have colder rivers with fewer nutrients. The bottom contains rock reefs with multiple islands that create diverse and complex habitat. Because of these differences, future brown trout stocking will be concentrated between Ludington and Glen Arbor – courtesy of this zonal management concept. This area of the lake is cooler, close to deep water and has colder tributaries. This new brown trout zone is expected to make stocking more efficient and create an area where anglers can expect better fishing opportunities.

### ***Lake Michigan Research Vessel Celebrates 50 Years***

The year 1968 is often described as one of the most momentous in American history. In a year that included an Apollo moon orbit and the introduction of the Big Mac hamburger, an event on Lake Michigan marked a turning point for resource management and conservation on the Great Lakes. It was in 1968 that the Survey Vessel *Steelhead* set forth from Charlevoix for her first year of fisheries surveys on the lakes. This vessel, built in Escanaba, was completed in 1968 and soon set out for its first fisheries assessment operations – investigating the distribution, abundance, growth and diet of major fish stocks on lakes Michigan and Huron. Like any of us who've reached our 50<sup>th</sup> year, the S/V *Steelhead* has occasional aches and pains. However, this vessel launched with such foresight in 1968 that it is still paying huge dividends for the people and fish of Lake Michigan. Work conducted on the S/V *Steelhead* is truly the foundation of Lake Michigan fisheries management.

### ***Environmental DNA – Another Way to Find Fish***

Determining what fish species live where and in what abundance is a difficult question to fully answer. Traditional fish sampling techniques such as netting, hook-and-line and electrofishing only capture part of the fish community and can't fully assess the fish or other aquatic species in that location. To help fill the information gaps about fish and other aquatic communities, fisheries scientists are increasingly using environmental DNA (eDNA). All organisms and plants leave traces of DNA in the water where they are living or recently have lived through cell loss, mucus and excretion. We can now use this genetic information to help answer questions about who is living where and when. Applications of eDNA have greatly expanded in recent years from rare species and aquatic invasive species detection to having the ability to accurately estimate the relative abundance of each species in a location. Fisheries Division works with the Partnership for Ecosystem Research and Management at Michigan State University to use eDNA to gather information like the locations of red swamp

crayfish and round goby. We expect to continue to employ eDNA methods to supplement information from traditional fisheries sampling methods and will likely gain unique insights from this new information source.

#### FY2018 Accomplishments:

- Participated in an interagency effort to understand causes for declines in lake whitefish populations in the Great Lakes.
- Gained an understanding of the dynamic fish populations in four of the Great Lakes by safely operating research vessels to collect data.
- Conducted 23 large-scale surveys, generally multiple week surveys, to provide key fisheries management data at 286 Great Lakes locations.
- During surveys, more than 80,000 fish representing various species were handled and data collected for aging, prey consumption and other analyses.
- Published 71 peer-reviewed publications.
- Performed 137 fish health inspections for hatcheries (104 inspections and 33 diagnostics) and 43 fish quality assessments on 38 lots of fish from hatcheries and five lots from imprint pens and cooperative rearing facilities.
- Analyzed 48 lots of wild fish that included wild broodstock for cold and coolwater production, wild fish from streams in the vicinity of hatcheries, and three cases surveilling for Epitheliotropic Epizootic Disease virus in lake trout collected from lakes Huron and Michigan.

## **FOSTER EFFICIENT DIVISION OPERATIONS**

### ***Responding to a Disaster***

Following the spring 2018 storm that hit Houghton County hard, Fisheries Division staff engaged in response efforts along with diverse teams drawn from all corners of the state. Residents, local units of government, DNR, DEQ, and state emergency management experts collaborated to address pressing needs to public safety and infrastructure protection. Once the most daunting threats to health and safety were addressed, efforts were directed to help get Copper Country on track (and trail) as soon as possible for residents and visitors. Expertise in infrastructure, logistics, road-stream crossings and numerous other areas was required, and coordination was needed at all levels to ensure machine operators and workers had the equipment and resources they needed to accomplish the difficult task of stabilizing and repairing damaged areas. Folks quickly recognized the urgent needs of Houghton County, and all involved understood and helped in any way they could to get their neighbors to safety and a new normal. While work continues, the relationships and collaboration formed during this response will bring increased efficiency, preparedness and success.

### ***The Value of Electronic Reporting***

Starting in 2018, the DNR implemented a new electronic reporting system for the commercial fishing industry, wholesale fish dealers and charter boat operators. This system, called the Fishing Activity & Catch Tracking System (FACTS), is currently being successfully used by the National Oceanic and Atmospheric Administration and the State of Maryland in their fisheries industry and we were happy to bring it here to Michigan. The former electronic reporting platforms have been replaced with FACTS, which brings many improvements, including using smartphones to report!

### ***Finding a Better Way to Collect Information from the Public***

As part of a joint effort between the Fisheries, Wildlife and Marketing and Outreach divisions, as well as the Michigan Department of Technology, Management and Budget, a brand new, online reporting tool was launched in 2018 called Eyes in the Field. While previously divisions had individual observational reporting forms available, such as reporting a marked and tagged fish, now all these forms are housed under one roof to provide ease of access and use by the public. This new tool also enhances the department's ability to respond to those who submit forms and track actions taken after the fact. Additional fisheries-related forms now in Eyes in the Field include reporting an invasive (Asian) carp, a lake sturgeon sighting and sick or dead aquatic species. Following the launch of Eyes in the Field, an off-shoot of the system was also developed – the Harvest Reporting System, which allows anglers to provide mandatory reports online after harvesting a lake sturgeon or muskellunge in Michigan.

#### FY2018 Accomplishments:

- Enhanced the Michigan Fishing Tournament Information System to allow muskellunge and walleye reporting, to begin January 1, 2019.
- Built a new software portal for State of Michigan-licensed commercial fishermen, wholesale dealers and charter boat captains to report to the DNR starting on January 1, 2019. As a result of building the new software, seven expensive and outdated technology systems were retired.
- Managed an annual appropriation of more than \$31 million, with funding appropriated from the following sources: \$19,083,700 (Game and Fish), \$11,292,000 (Federal), and \$1,284,700 (Other Funds).
- Appropriated the above funds to Fisheries Division's initiatives including \$20,789,100 to Fisheries Resources Management and Cormorant Population Mitigation programs, \$10,242,000 to fish production, and \$629,300 to the Aquatic Resource Mitigation Program.
- Completed and began implementing the next five-year strategic plan (*Charting the Course: Fisheries Division's Framework for Managing Aquatic Resources*), to provide direction for 2018–2022.
- Facilitated the division's human resource, information technology, education and outreach, purchasing, accounting and budgeting activities.
- A total of 206 employees benefitted from 83 different training sessions to learn new skills or to hone existing ones.

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**Fisheries Division Mission:** To protect and enhance Michigan’s aquatic life and habitats for the benefit of current and future generations.

**Fisheries Division Vision:** To provide world-class freshwater fishing opportunities, supported by healthy aquatic environments, which enhance the quality of life in Michigan.

Learn more about Fisheries Division and fishing in Michigan by visiting ***Michigan.gov/fishing***.

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To provide comments on this report, please email them to  
***DNR-Fish-Accomplishments@michigan.gov***.

*The Michigan Department of Natural Resources is committed to the conservation, protection, management, use and enjoyment of the state’s natural and cultural resources for current and future generations.*

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