

Organization	Organization Representative	Audience	Peak Season	Frequency of Programs
Belle Isle Aquarium		DPSCD 3rd graders at Conservatory; DPSCD 4th graders at Aquarium	January - May	Tuesdays & Wednesday 10-12, sometimes Thursdays
Cranbrook		5/6th grade for <u>How We Use Water</u> programs, 7/8th grade for <u>I Live in a Watershed</u> program		
DTE Energy	Matthew T Shackelford, Principal Engineer	Participate at local River Festivals, aimed at school age children & presented by Ecological Field Services team. Partnering with the St. Clair Detroit River System Initiative (SCDRS) for many years- includes funding for the fish spawning reefs constructed in the system over the years & offering in-kind services to the partnership when needed. Recently conducted native mussel surveys for the fish spawning reef team at the end of last year. This work is rewarding for the DTE team involved & shows commitment to the communities including wildlife.	For river/water festivals it is the spring or fall when these events occur at the beginning or end of the school year.	Follow the water festival schedules

Content Focus	Limiting Factors in Programming
<p>Conservatory: plant structure & function, adaptation & classification. Aquarium: requirements for life, adaptations, fossils as evidence of the geological past & living fossils</p>	<p>No lunch room so they have to use the conservatory show room, buildings are small & the classroom fits only 15. Programs only occur when closed to the public due to space. Solely reliant on volunteers.</p>
<p>Water quality, water as a resource, & watershed education.</p>	
<p>Education on invasive species with a focus on zebra and quagga mussels (Dreissenids), the importance of wetlands and T&E species, a display of scuba equipment, & a hands-on demonstration of remotely operated underwater vehicle (ROV). This presentation touches on the importance of stewardship but also career opportunities in the field of ecology/biology.</p>	<p>Time. DTE also does field work for the business groups within DTE such as wetland delineations, T&E surveys, environmental sampling etc.</p>

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Explorer Guides	Karen Gourley	<p>EG programs - general public and campers at nearby campgrounds.</p> <p>Anyone can join-free for kids under 17 since they don't need a fishing license. Locations include Milliken, Proud Lake, Maybury, Sterling State Parks, Island Lake, Pinckney, Holly. Most participants are families.</p>	<p>Summer. Potential - February free fishing weekend in winter for events. Valerie at Bay City does a big winter fishing festival during this weekend. Would be a good source of ideas related to this.</p>	<p>Weekly - <u>Hook, Line, and Sinker</u>. "Fishing derby" type programs - one-two per season</p>
Friends of the Detroit River	Matthew T Shackelford, Principal Engineer	<p>The general public, DTE membership & school age children. The Friends of the Detroit River (FDR) hosts the Detroit River Water Festival.</p>	<p>The FDR regularly sets up a display at different venues (outdoor shows, street fairs, world wetlands day, etc.) & this is all year long</p>	<p>Offer programs and presentation whenever possible. The Detroit River Water Keeper (Robert Burns) is housed within the FDR & gives presentations to a wide audience. Main programs: Detroit River Clean-up, Detroit River Water Festival, & Shiver on the River.</p>

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<p>Fishing technique, fish ID, fish anatomy. Some "fishing derby" style programs - Fishing Fest at Milliken and Maybury - give away small prizes. Also casting techniques - Backyard Bass. Have recently pushed Invasive species education--Invasive Species Education week in August has been successful.</p>	<p>Previously have had trouble making invasive species an attractive topic for public programming, but recently have been doing better - a good source of info for how to market invasive species programs</p>
<p>Stewardship and promoting the Detroit River. Showing the public and stakeholders the numerous habitat improvement and restoration projects FDR has completed on the River.</p>	<p>Grant dollars & time.</p>

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Friends of the Rouge		K-12 teachers & their classrooms. Most participants are 4th-12th grade classes	Spring and fall	Two large scale monitoring events - one in May and one in October
GVSU Aquatic Research	Dr Janet Vail	Outreach program is all ages, serving 6,000 students annually from Kent, Ottawa, & Muskegon Co. on 2.5 hour cruises. Education station in Muskegon has 2,000 students.	Mid April to Mid June; Mid Sept to Mid October. Some summer programs, including sailing to Indiana for festivals	
Huron River Watershed	Jason Frenzel Volunteer Coordinator	School groups, residents within watershed area, college students. Most of the volunteers are retirees, they are working to expand this. They try to reach all age groups, and will change programming every few years if gaps are identified.	Benthic studies in the spring and fall with school groups, INE work in summer.	Of 5-6 separate projects, each goes out once or twice a week. All told, programs are almost daily in their peak seasons.

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<p>Water quality monitoring - chemical testing & macro-invertebrate ID</p>	<p>Teachers are overworked & challenged by a lack of funding for programs like these. Teachers are trained in conducting this monitoring day with students & are provided materials but getting quality data can be difficult. Teachers are not always experts with macroinvertebrate ID.</p>
<p>Water quality education. Chemical & macroinvertebrate testing.</p>	<p>The station is in association with GVSU, & more focused on academic research than outreach/education. Currently serving as many students as they are interested in serving.</p>
<p>Focused on homes in the Huron River basin, teaching students who to perform benthic invertebrate and chemical studies. Also working to develop a snorkeling program for water quality tests, and seine netting with students. Calendars sent to residents with tips to improve water quality. Public message through table talks and media is "what you can do at home to improve water quality". Working with municipalities on regional planning.</p>	<p>Despite a million dollar budget & 13 staff, there is always a lack of time. More could always be done with more staff/volunteers to spread the word about water quality. They work in a very wide geographic area, & have difficulty reaching all their residents/finding a cohesive message that resonates with the wide variety of social/economic perspectives.</p>

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Indian Spring Metropark	Bridget	Preschool-college aged, but typically elementary students	May	1 school per day, 4 classes of 30 students
Lake Erie Metropark		Few public fishing programs. Occasional fishing programs for kids ages 6-10, also very few. Planning summer "water festival" for public audience. 4th grade participants in GLEP water studies - occasional middle-high school participants.	Water Festival - summer. GLEP programming may-early June and late Sept - October.	Fishing - less than one per year. GLEP with 4th graders - maximum 5 days per week through season - students spend half of day on Boat with Sea Grant, other half with LEMP staff doing macroinvertebrate water investigations. Full day experience, one time.
Lake St Clair Walleye Association	Jerry Comfort	All ages, many kids fishing outings. Regular meetings for members, & events for guests.	Year round activities.	
National Museum of the Great Lakes	Ellen Kennedy	Families, school groups typically 4-6th grade	May to October the museum receives 70% of its visitors. School groups mainly in May, September, and October	Usually 1 school per day.

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Water quality, pond dipping, & biodiversity index.	Weather is the main limiting factor.
<p>Macroinvertebrates related to water quality, marsh ecosystems. Future water festival will include some Great Lakes fisheries, value of our Great Lakes for natural resources & recreation (fly-fishing, fly-tying with Huron River Fisherman's Association)</p>	
Fishing trips; walleye habitat restoration efforts	
Mission is Great Lakes History, and advancement of the boating technology over the years. STEM education through weather, geology, invasive species, navigation, and study of motion activities. Tried a fishing program summer 2016--didn't work.	<p>Only catfish in the Maumee River, & students didn't have the patience to fish for them. New facility, still developing lesson plans/outreach.</p>

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Project Fish	Mark Stephens	<p>Adults, teachers & volunteers to run program. Fish education & recreational boating program targets PE teachers for use in classroom.</p> <p>Work with all ages: homeschool, fishing clubs, families etc. 4-H students, science teachers</p>	<p>Spring and summer, with some ice-fishing programs in winter. Few programs are offered year round.</p>	<p>First three weekends of May have a program targeting 50 students & parents, at a 2:1 ratio with volunteers--these students are invited back 3 times in the summer to enhance their skills.</p>
SeaGrant - Summer Discovery Cruises	Steve Stewart Great Lakes Education Program Director	<p>Mostly families. Some opportunities for teachers as a professional development type cruise for teaching about the Great Lakes. Some cruises for kids.</p>	<p>Lake St Clair cruises - July . Lake Erie cruises - month of August</p>	<p>2-3 cruises per day Wednesday-Sunday</p>
Stepping Stones / GLEP / Fishing Derby at Palmer Park	Gary Williams	<p>Stepping Stones - ages 9 and up - mostly from parks and rec departments, church groups, day camps - so variety of ages. GLEP - 4th grade students with their school, some high schools to fill in gaps. Palmer Park Derby - wide range of ages. Some family groups attend. Up to 500 kids.</p>	<p>Stepping Stones - summer only - 8 weeks. GLEP - May/June and September / October only. Palmer Park derby - always the Saturday before Memorial Day weekend.</p>	<p>Stepping Stones - 80 programs. GLEP - 5 days per week during season is goal, but May-June is usually fuller because fall is not as popular a time for field trips. Palmer Park Derby - one per year</p>
UMD Environmental Interpretive Center		<p>Water Festival in May for 5th grade students. Pond studies - range from K-high school; mostly upper elem.. Watershed education - upper elem. / middle</p>	<p>Spring and fall, occasionally in summer</p>	<p>Pond studies - near daily in May/June, weekly in Sept / Oct.</p>

<p>USFWS / Detroit River International Wildlife Refuge</p>	<p>Justin Chiotte / Jennie Braatz</p>	<p>Schools and public audiences in general, also home-school</p>	<p>N/A - visitor center is not open yet, school visit has started only this year. They are in very beginning phases</p>	<p>With partner school program, they will visit the school once in fall as introduction, once in winter time and once in spring. School will visit in winter/spring.</p>
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<p>Working with Stepping Stones; Project Fish hosts occasional fishing derbies. General goal is to have multiple contact lessons to build students' skills.</p>	<p>Lack of funding.</p>
<p>Very broad content - includes wildlife, history, lake ecology, weather, one Lake St Clair cruise focuses on fisheries</p>	<p>Registration has been down , cruises occasionally cancelled due to lack of registration. There is a fee per person, & Sea Grant must meet minimum costs. They try to keep fees as low as possible.</p>
<p>Stepping Stones - water studies. Fishing - fish as water health indicators, fish anatomy, fishing/casting technique (backyard bass), actual fishing. GLEP - water quality - plankton and benthic sample observation, water testing, boat knot tying, other "boating" stuff. Some invasive species</p>	<p>Transportation costs are the biggest challenge-Gary has seen this challenge with GLEP more than Stepping Stones. Challenges for fishing programs on Belle Isle-access and safety are a problem for Kids Intro-to-Fishing programs. Belle Isle is currently not conducive to that type of programming-the lagoons have too much aquatic vegetation & stagnant water. The Model Yacht Basin is ideal, but there are not enough fish in it to make fishing an enjoyable activity for kids.</p>
<p>Watershed stewardship education, macroinvertebrate sampling & water quality, pond ecology.</p>	

Water quality and macroinvertebrate ID. No focus on fisheries management with this program, but may consider in future. Once visitor center opens, there will be public opportunities for fishing - possibly schools as well.

Program is just now beginning, but transportation costs for schools is a big challenge - currently IWRA pays for transportation to the refuge