

Northeast Michigan Great Lakes and Aquatic Education Summit
September 14, 2006 – Alpena, MI
Participant List

Archambo, Brenda
Sturgeon for Tomorrow
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Sturgeon for Tomorrow is a 501c3 non-profit organization whose mission is to assist fisheries managers in the rehabilitation of lake sturgeon, a threatened species in Michigan.

Research: We conduct research (net, tag and collect biological data on spawning adults), determine natural reproduction through larval sampling, rear sturgeon in our streamside rearing facility.

Public Relations/Education: We facilitate tours and field trips to the river, to the hatchery, and conduct presentation in the classroom and for civic clubs. We have a website www.sturgeonfortomorrow.org

Conservation: We coordinate our Sturgeon Guarding Program to deter poaching every spring during spawning. On average, we enlist 350 volunteers who contribute 3,800 hours to sturgeon protection.

Habitat: We have adopted projects to protect, enhance, and re-establish spawning habitat.

Membership/Fund Development: We rely on membership dues revenue, grants and fund-raising to implement our programming.

Baughman, Bob
Lafarge Cement - Alpena Plant
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Alpena, MI 49707

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Lafarge has partnered with elementary and secondary school groups as well as various community and conservation groups to conduct on-site education at the Limestone Quarry located in Alpena as well as the Paxton Quarry site located on M-32 approximately 12 miles west of Alpena. Examples of activities include:

- Wilson Elementary 6th grade - built nesting tubes for mallard ducks and placed them at the quarry, also planted some trees.
- Long Rapids Elementary 5th & 6th grades - conducted a 4-station field exercise to supplement classroom learning . . . stations included bird identification, wildlife habitat, water quality, and rocks/minerals/fossils.
- Alpena High School - worked with Ron Worth and the FFA students for habitat planting, tree planting, and pheasant and chukar rearing/releasing.
- Alpena High School Forestry class - tree planting
- Alpena Chapter of the National Wild Turkey Federation (NWTF) - tree and shrub planting
- Alpena chapter NWTF & Thunder Bay Walleye Club - sponsored a "Get the Kids Out Fishing Day" - 2005 & 2006
- Alpena Big Brothers/Big Sisters organization - sponsored a day for the "Bigs" and "Littles" to be able to spend time fishing together
- Multiple schools and separate geology groups - fossil collecting in the Limestone Quarry

We welcome additional groups or organizations (educational, community, conservation) who would benefit from the use of our sites to supplement their learning or other activities. If you have ideas for an activity or are interested in partnering with us to use a site, please contact any of the following people for more information: Craig Ryan - (989) 358-3205, Gil Peterson - (989) 358-3346, Bob Baughman (989) 358-3380.

Cadwalader, Tom
Cheboygan Area Sportfishing Association
(CASA)
10129 High Banks Dr
Cheboygan, MI 49721

Home phone: (231) 597-0426
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Salmon in the Classroom, fishing gear lending through the public library, Lake Huron Advisory Committee, net pens for salmon planting.

Cole, John
Big Brothers Big Sisters Sault Area Sportsman's
Club
406 Ashmun St., Suite 200
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Big Brothers Big Sisters in collaboration with the Sault Area Sportsman's Club provides Fishing Buddies Program to area youth. Fishing buddies offers educational, and fun activities to youth within Big Brothers Big Sisters, the youth that participate are currently on our waiting list for a Big Sister or Big Brother. We provide them with group mentoring, and recruit Mentors to work with our kids while they fish. Our program also has incorporated Water Testing through LSSU into our program. Our program teaches participants the impact people have on our fragile environment and sustain ability of our natural resources. This includes an introduction of fish management, regulations and ethics. This is done in our hands-on activities. We include fishing trips, learn of aquatic ecology, angling skills and tackle crafting.

D'Augustino, Tracy
Sprinkler Lake Education Center
1700 Adams Rd.
Glennie, MI 48737

Work phone: (989) 735-4055

Sprinkler Lake Education Center provides units/lessons to students in grades K-12. Our lessons include water properties, groundwater, watershed, water quality, aquatic macro invertebrates for water quality, dissolved oxygen testing, ph, nitrogen, ammonia and stream study.

Deming, Ashley
Thunder Bay National Marine Sanctuary (TBNMS)
500 W. Fletcher Street
Alpena, MI 49707

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Excerpted from TBNMS website (<http://thunderbay.noaa.gov/welcome.html>):

The Thunder Bay National Marine Sanctuary and Underwater Preserve is the thirteenth designated NOAA National Marine Sanctuary, protecting nationally significant collection of over 100 shipwrecks, spanning over a century of Great Lakes shipping history. Thunder Bay NMS/UP offers the public opportunities to learn about seafaring on the Great Lakes aboard replicas of historic sailing vessel. Classroom presentations, lessons, and activities highlighting the maritime history and nautical archaeology reach out to the younger generation. Public events like the Thunder Bay Maritime Festival reconnect the community with its Great Lakes past. Thunder Bay National Marine Sanctuary also has exciting ways to bring the cultural resources hidden beneath Lake Huron's waves to the public and schools. Click on any of the following to learn more about these new programs, including: "Live Dive" and "ROV Competition" Thunder Bay is in the process of creating new shipwreck-based curriculum for Michigan state teachers that meets the required educational standards and offers school children new opportunities to explore their rich maritime heritage.

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Petoskey, MI 49770

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We are currently in the third year of the "DTE Freshwater Institute", a program to encourage and foster the development of place-based water resource curriculum for secondary school teachers. It involves a four-day summer workshop, meetings throughout the school year, community partnerships with water resource professionals, as well as funding and on-going technical support. We also provide routine programs for students involving lake, pond, stream and wetland exploration and testing; and periodic community education events involving water resources. Recent examples of community education events include underwater explorations utilizing an underwater remotely operated vehicle, a water resource minicourse at the University of Michigan Biological Station, and an exploration of Great Lakes ice formations.

Goren, Gary
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Gary is the General Education Director for the Alpena-Montmorency-Alcona Educational Service District (AMA ESD). He works closely with programming provided through their Sprinkler Lake Education Center, coordinates professional development opportunities for area teachers, among other roles and responsibilities. More information on the AMA ESD online at: www.amaesd.k12.mi.us/

Hoffman, Wendy

Big Brothers Big Sisters Sault Area Sportsman's Club
406 Ashmun St., Suite 200
Sault Ste. Marie, MI 49783

Home phone: (906) 495-1002**Work phone:** (906) 635-5188**Email:** bbbsssm@sbsglobal.net

Big Brothers Big Sisters in collaboration with the Sault Area Sportsman's Club provides Fishing Buddies Program to area youth. Fishing buddies offers educational, and fun activities to youth within Big Brothers Big Sisters, the youth that participate are currently on our waiting list for a Big Sister or Big Brother. We provide them with group mentoring, and recruit Mentors to work with our kids while they fish. Our program also has incorporated Water Testing through LSSU into our program. Our program teaches participants the impact people have on our fragile environment and sustainability of our natural resources. This includes an introduction of fish management, regulations and ethics. This is done in our hands-on activities. We include fishing trips, learn of aquatic ecology, angling skills and tackle crafting.

Horn, Mindy

Onaway Area Schools, Ocqueoc Watershed Project
4549 M-33 S., PO Box 307
Onaway, MI 49765

Home phone: (989) 733-2934**Work phone:** (989) 733-4900 ext. 413**Fax:** (989) 733-4998**Email:** hornms@yahoo.com

Onaway Area Schools, funded in part by a service-learning grant from Michigan Learn and Serve, is developing and implementing a program that integrates classroom instruction with environmental stewardship. Focused on the Ocqueoc Watershed, students are actively involved in learning about and protecting the watershed, while extending classroom instruction through meaningful, hands-on activities.

Huntington, Dave

Former Teacher; Mackinaw City
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Carp Lake, MI 49718

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Have participated in Project FISH. Also have implemented Salmon in the Classroom for three years. Participated in DTE Freshwater Institute for Teachers, and Research Experience for Teachers at University of Michigan Biological Station. Currently hold highly qualified teaching status for secondary level biology and chemistry, but am not employed.

Jacobs, Maureen
Mich. Dept. of Natural Resources (MDNR)
Oden Fish Hatchery
8258 South Ayr Road
Alanson, MI 49706

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Email: JACOBSME@michigan.gov

Excerpted from MDNR website (www.michigan.gov/dnr):

“The original Oden State Fish Hatchery was established in 1921 and continued to operate until 2002. The new Oden State Fish Hatchery complex was completed in 2002 and is one of the most advanced fish culture facilities of its kind. The old hatchery has been transformed into a Great Lakes watershed interpretation area, featuring a “Michigan Fisheries Visitor Center” that includes a replica of a fish transportation railcar.”

Maureen is an education specialist who provides interpretive and education programs at Oden Hatchery, and supports area Salmon in the Classroom projects. Maureen is also trained in Project F.I.S.H.

James, Penny
Onaway Area Schools, Ocqueoc Watershed
Project
4549 M-33 S., PO Box 307
Onaway, MI 49765

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Onaway Area Schools, funded in part by a service-learning grant from Michigan Learn and Serve, is developing and implementing a program that integrates classroom instruction with environmental stewardship. Focused on the Ocqueoc Watershed, students are actively involved in learning about and protecting the watershed, while extending classroom instruction through meaningful, hands-on activities.

Kala, Jeff
4-H volunteer
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Onaway, MI 49765

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Fur-Fish-Fun-& 4-H, fly tying, fly fishing, fish id, aquatic insect id.

Krejcarek, Joell
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We provide units/lessons to students in grades K-12. Our lessons include water properties, groundwater, watershed, water quality, aquatic macro invertebrates for water quality, dissolved oxygen testing, ph, nitrogen, ammonia and stream study.

Lange, Denise

Headwaters Chapter Trout Unlimited (TU) and
Johannesburg-Lewiston High School
63 N. Alpine Ct.
Gaylord, MI 49735

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I am a former board member and current general member of the Headwaters Chapter of Trout Unlimited. I was chairperson of the education committee of TU and was responsible for setting up fly fishing workshops and for establishing a Salmon in the Classroom project at Johannesburg-Lewiston High School. I teach at this high school and am still currently involved with helping our science teacher, Kevin Kennedy, with this project. I have also worked with the DNR and TU at various stream restoration/fish count projects on the Pigeon, Black, and AuSable Rivers.

LaPorte, Elizabeth

Michigan Sea Grant
Communications Director & Education Co-Leader
440 Church St. Suite 4044
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Michigan Sea Grant Web Page: www.miseagrant.umich.edu

Michigan Sea Grant, a joint program of Michigan State University and the University of Michigan, promotes greater knowledge of the Great Lakes through education, research and outreach. As Education Program Co-leader for Sea Grant, Elizabeth works on increasing access to science education through the use of state-of-the-art technology tools, and identifying new opportunities for partnerships with Michigan universities, state agencies and non-government organizations. Elizabeth manages the development of research and educational projects and materials (e.g., Project FLOW, Upwellings, The Life of the Lakes) for the Michigan Sea Grant Program.

Leow, Lori

Science Teacher/St. Ignatius School
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I teach life science to 7th graders and include information about watershed & habitat as well as local species. I am a member of Presque Isle's Groundwater Protection Commission & share groundwater lessons with my class. Finally, I organize an outdoor science camp for my school on alternate years.

Lilley, Theodore
Michigan United Conservation Clubs (MUCC) &
Alcona County Conservation Club
3280 Bissonette Rd.
Glennie, MI 48737

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Involved with MUCC's and Alcona County Conservation Club's youth club, on fishing and conservation and water ways.

Matchett, Brian
Alcona High School
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Lincoln, MI 48742

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Brian is the Agriculture and Natural Resources teacher at Alcona High School. Brian's classes are involved in watershed monitoring work, study Great Lakes fisheries in the classroom (working with "The Life of the Lakes" publication and curriculum). His students have also developed and maintain an aquaculture system in partnership with Cedar Brook Trout Farms.

Meek, Jerry
Thunder Bay River Watershed Council (TBRWC)
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I am the secretary of the Thunder Bay River Watershed Council. In that position I am the editor of their newsletter so am in contact with the activities of the organization. This includes maintenance of the wildflowers of Sytek Park, publishing several brochures related to the watershed, and working with NEMCOG on the Thunder Bay River initiative.

In the past I have worked on Misery Bay Initiative with NEMCOG. I am also an Alpena County Planning Commissioner. In that position I am working with NEMCOG on the Grand Lake-Coastal Watershed Plan.

During the past four years I have worked with the Thunder Bay National Marine Sanctuary on the Community Boat Building Program. Here I worked as an instructor.

Meisterheim, Tracy
Cheboygan County MSU Extension
4-H Youth Programs
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Cheboygan County has had up to 5 Salmon in the Classroom programs functioning. Currently, only 2 or 3 of those are in operation. Interest has been shown by teachers and 4-H volunteers to find new and exciting ways to bring youth to the water for educational opportunities. Every school in Cheboygan County is within walking distance of some water source for hands-on educational programs. There is interest in using the Project FISH curriculum in classrooms, afterschool programs and community-wide events. We have one retired teacher offering to teach 7-8 workshops during the early summer months, if someone else will do the coordination. Interest in supporting this initiative are the Cheboygan Area Sportfisherman's Association, Sturgeon for Tomorrow, Trout Unlimited, Keith's Hunting & Fishing Supply, Conservation District, and volunteers. We envision after-school programs, seasonal events at different water sites (stream shocking, macro invertebrate sampling, bait casting & tackle crafting, taxidermy demonstration, stream bank restoration, fly tying & fly fishing, ice fishing, great lakes fishing, etc.) Our needs are volunteer coordinators and leaders, funding and supplies.

Murphy, Chuck
Michigan United Conservation Clubs (MUCC) &
Alcona County Conservation Club
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Involved with Michigan United Conservation Clubs (MUCC), providing leadership for Alcona County Conservation Club's youth club.

Occhipinti, Tom
Mich. Dept. of Environmental Quality (MDEQ)
525 W. Allegan, Constitution Hall
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DEQ is actively working to train teachers in the Michigan Environmental Education Curriculum Support (MEECS). Units on Water Quality and Ecosystems & Biodiversity have rich information for education in Michigan, as do all five units.

Ramsdell, Lisha
Huron Pines RC&D
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Huron Pines works to conserve the forest, lakes, and streams of Northeast Michigan. One way we accomplish this is by conducting resource stewardship outreach programs to conservation organizations, local governments, businesses, and landowners. Specific aquatic outreach efforts include messages about stormwater runoff management to lakes and rivers; invasive species control, particularly Eurasian watermilfoil; in-stream habitat improvement; importance of maintaining/establishing native greenbelts; controlling streambank and lakeshore erosion, and hosting riparian workshops to promote sound stewardship practices to protecting water quality and aquatic habitat.

We use a wide variety of print literature, post information on our website (www.huronpines.org), conduct workshops, meet individually with landowners, develop educational kiosks, and we have currently created a PSA to protect the water quality of Higgins Lake.

Ramsey, Ronald
Cheboygan Area Sportfishing Association
(CASA)
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Cheboygan, MI 49721

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Email: jr Ramsey@freeway.net

Salmon in the Classroom, fishing gear lending through the public library, Lake Huron Advisory Committee, net pens for salmon planting.

Retherford, Capt. Ed
Alpena Community College (ACC), Adm. Tech., &
Trout Scout IV Charter Fishing
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Ed is a retired biology teacher, and now working with Alpena Community College as the Upward Bound Student Advocate. Captain Ed also runs the Trout Scout IV charter fishing service out of Alpena, with over 27 years charter fishing on Lake Huron. Ed is a member of the MDNR Lake Huron Fishery Citizen Advisory Committee, the Michigan Charter Boat Association, and the Alpena Chapter of the Michigan Salmon and Steelhead Fishermen's Assoc. (among other affiliations). Through his charter fishing service, Ed works with the State 4-H Great Lakes and Natural Resources Camp hosted in Presque Isle, MI.

Schroeder, Brandon
Michigan Sea Grant
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Michigan Sea Grant Web Page: www.miseagrant.umich.edu

Michigan Sea Grant, a joint program of Michigan State University and the University of Michigan, promotes greater knowledge of the Great Lakes through education, research and outreach. Brandon works with coastal communities and businesses in northeast Michigan to apply science-based knowledge to address Great Lakes and northern Lake Huron issues. Also focuses on Great Lakes education. Counties include Cheboygan, Presque Isle, Alpena, Alcona, Iosco, Arenac and Bay. Related to Great Lakes education, Brandon has been involved in the following activities: co-author "The Life of the Lakes: A Guide to the Great Lakes Fishery"; planning committee for 4-H Great Lakes and Natural Resources Camp (Presque Isle); Project F.I.S.H. trainer and volunteer; and member of the national Aquatic Resource Educators Association.

Smercheck, Dave
Ocqueoc River Commission
Hammond Bay Area Anglers Association

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Email: dsmrchek@voyager.net

Involved with aquatic education activities supported through the Ocqueoc River Commission and Hammond Bay Area Anglers Association. Specific programs supported through the Ocqueoc Watershed includes the "Ocqueoc Celebration Project," developed in partnership with Onaway Schools 5th Grade program. The Hammond Bay Area Anglers Association aquatic education investments include support for Salmon in the Classroom programming in area schools.

Stephens, Mark
Project FISH
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East Lansing, MI 48824

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Project FISH encourages involvement of youth in a long term and continuous, community supported, sportfishing and aquatic resource education program. To initiate and provide fishing education and fishing skills to interested adults and youth from Michigan's many diverse populations. This will preserve a natural heritage that ensures the future of fishing, which includes natural resources and environmental awareness, ethical fishing practices, fisheries stewardship, and positive developmental activities for children, families, and the community. The Michigan Project FISH program works through partnerships with: Michigan 4-H Youth Programs, Michigan State University Dept. of Fisheries & Wildlife, Michigan Dept. of Natural Resources Fisheries Division, Michigan United Conservation Clubs, recreation departments, service organizations, sportfishing industries/retailers, volunteers, and many others.

Stewart, Steve
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Michigan Sea Grant, a joint program of Michigan State University and the University of Michigan, promotes greater knowledge of the Great Lakes through education, research and outreach. As Education Co-leader for the Michigan Sea Grant, Steve works statewide and nationally to enhance development and delivery of Great Lakes Education programs and materials. Currently, Steve is providing leadership for The Great Lakes Center for Ocean Science Education Excellence (COSEE), which is a Great Lakes-wide initiative to provide opportunities for educators to make connections with Great Lakes researchers in ways that add value to educational programs and experiences. In southeast Michigan, as a District Extension Educator, Steve works with coastal communities and businesses in southeast Michigan to apply science-based knowledge to address Great Lakes, western Lake Erie and southern Lake Huron issues. Counties include Tuscola, Huron, Sanilac, St. Clair, Macomb, Wayne and Monroe. Developed and directs the Great Lakes Education Program (GLEP), a scholarship program that targets fourth-grade students and involves approximately 200 classes each year in classroom learning and educational cruises on Lake St. Clair and the lower Detroit River.

Szypulski, Margaret
DNR State of Michigan (Harrisville State Park)
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East Tawas, MI 48730

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As Explorer Guide working the past four summers at the Harrisville State Park. Also as teacher for the Sprinkler Lake Education Center, Glennie, MI.

Thomas, Les
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(Alcona County)
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Harrisville, MI 48740

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Youth natural resources education delivered to grades 4-5 of local school system to encourage conservation and proper utilization of all natural resources. (Selfishly I also promote 4-H in the process). This happens in two phases, 4th graders (studying Michigan History) get a historical perspective of the logging, fisheries and fur industry and how they shaped the development of the county and state. 5th graders (studying natural resources) get a current, practical look at how soil, forests, water and animals all affect our everyday lives from what we put on the table at dinner time to what the table is made of. Consistent in both programs, agencies, businesses and individuals present short programs, often hands-on, that reinforce the greater point of the common theme. Aquatic partners include MI Sea Grant, MDNR (Law Enforcement), US Fish and Wildlife, USFS, Alcona Historical Society, Cedarbrook Trout Farm, MSU Extension and Alcona Conservation District.

Wells, Susan

US Fish and Wildlife Service
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Alpena, MI 49707

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My work with aquatic education is varied. The majority of the work I do is centered around Great Lakes Fishery. This includes native fish restoration and aquatic nuisance species. However, I have also conducted water quality programs and habitat restoration programs. Most of the educational opportunities that I have participated in have been general booth, open to the public informational displays with the second most popular forum being outdoor classrooms. My hope is to expand our education and outreach program to a more diverse curriculum. Recently I have begun to incorporate habitat restoration into one of the components for educational programs. I would like to expand on this and other aquatic avenues within our office and with other partners.

Wirgau, Holly

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Science)
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Rogers City, MI 49779

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I have a Salmon in the Classroom program and I incorporate Project FISH activities within my classroom. I have a Salmon in the Classroom prototype curriculum given to me by Project FISH, I also have a Project FISH curriculum that I received by attending a conference, and I have collected many materials throughout the last two years. The DNR (fisheries and Conservation Officers) is a great source of information/Oden Fish Hatchery and Platte River Fish Hatchery, Project FISH, COSEE site on the internet, Michigan State Extension, and local angler organizations (Hammond Bay Area Anglers Association). The scope of classroom activities is huge and I do cover water cycle, life cycle of the salmon, habitat, river structure, conservation, watersheds, fish anatomy/dissection, water testing including use of a portable pH meter/setting up a standard and noting deviations, collection of data, PC use for data organizations and documentation, and journaling.