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## **DATCP SECRETARY ROD NILSESTUEN PASSES AWAY UNEXPECTEDLY**

It was with shock and great sadness that the members of WAA learned Secretary Nilsestuen untimely death. Many of our members would stop in to say "Hi" when they were in DATCP, and he always had time to ask how they were doing.

Rod Nilsestuen, 62, passed away unexpectedly while swimming in Lake Superior near Marquette, Mich., on July 21. He and his wife, Carol, were volunteering with his church's Habitat for Humanity team. Rod grew up on his family's dairy farm in Norway Valley, near Arcadia, on land his great-grandparents homesteaded in 1866. In 2003, Rod received a call from Gov. Jim Doyle, asking him to serve as Secretary of the Department of Agriculture, Trade and Consumer Protection. Under his leadership, Wisconsin saw unprecedented growth, reinvestment and diversification in agriculture. He was involved in creat-

ing the Wisconsin Milk Marketing Board and was most proud of his Working Lands Initiative, which protects Wisconsin's farmland. Rod cherished the opportunity to serve the state of Wisconsin and its dedicated farmers

A public memorial service was held on Tuesday, July 27, and Governor Jim Doyle ordered that U.S. and Wisconsin flags be flown at half-staff. With almost 2,000 people filling the church for the Tuesday service, he was remembered by many as an affable, compassionate, self-deprecating, intelligent, humble and open-minded man. Doyle spoke of Nilsestuen's achievements as ag secretary and how he took the job in 2003 even though he could have made more money in the private sector. "...there will be no doubt that Rod Nilsestuen will be listed as one of the great agricultural leaders in the history of the state of Wisconsin," said Doyle.

### **2010 June Field Days Highlighted Hybrid Walleye (Saugeye) Project**

By Sarah Kaatz, Aquaculture Outreach Specialist, UW Extension

The Annual Aquaculture Field Day and Vendor Fair was held Thursday, June 10<sup>th</sup> in Bayfield at the Pavilion and the Northern Aquaculture Demonstration Facility (NADF). The day started with a presentation by Jim Held, UWEX aquaculture outreach specialist, on yellow perch economics for production in ponds and recirculating aquaculture systems. Dr Liz Koutsos from Purina gave an update on new diets and explained how a fish diet is formulated. The rest of the morning focused on walleye culture and the NADF hybrid walleye project. Dr Robert Summerfelt, professor emeritus at Iowa State University, talked about his pioneering work with larval walleye culture. Alan Johnson from the Iowa Department of Natural Resources talked about the Iowa walleye project and the success they have had with feed training walleye. Lastly, Greg Fischer, facility manager at NADF talked about the ongoing hybrid walleye project at NADF. The afternoon was spent at NADF where there were 3 talks: Greg Fischer gave a tour of the facility and talked about the hybrid walleye project; Laura St. Pierre from YSI talked about dissolved oxygen and pond aeration; and Rich Clayton, Iowa State University, talked about water quality for ponds and recirculation systems as well as the *cont on pg 6*

### **Board Meeting and Members' Picnic Set for September 17 at Bullfrog's Fish Farm in Menomonie**

The WAA Board has decided to bring back the annual Members Picnic and picked Friday, September 17 for the picnic and quarterly board meeting.

The board meeting will start at 9:30am, followed by the picnic at noon. Herby will serve up his famous Hobo Chefin Shorelunch, and beer will be available for purchase. There will be a farm tour afterwards and members will have the opportunity to talk with Herby Radmann and Dave Sundal about their operation.

If you plan to attend, please rsvp by Tuesday, September 14 to Cindy and how many will be attending (715-373-2990 [cindy@wisconsinaquaculture.com](mailto:cindy@wisconsinaquaculture.com)). Bullfrog is located at N1321 566th St., Menomonie. For a map go to their website: [www.eatmyfish.com](http://www.eatmyfish.com)

### **Date and Location Set for 2011 Aquaculture Conference**

The 2011 Wisconsin Aquaculture Conference will be held March 11-12 at the Country Springs Hotel & Water Park in Waukesha, WI. We have a conference lodging rate of \$89/night sgl or dbl, the rate with waterpark passes for 4 starts at \$109/night, phone # 1-262-547-0201, mention WAA Conference. Updates, including schedule, topics, registration, etc will be posted on our website.

# The CREEL

September 2010 Volume 43\* \* \* Number 3

WISCONSIN AQUACULTURE ASSOCIATION

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The CREEL is published quarterly, March, June, September and December; WAA welcomes input and involvement from all interested parties.

Unless otherwise indicated, all articles are authored by *The CREEL* editor and/or WAA editorial committee. Editorial comments pertinent to other submissions are italicized and noted in parenthesis (ed.)

All opinions expressed in *The CREEL* are those of the contributor/author and not necessarily those of the Wisconsin Aquaculture Association, its officers or directors.

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## WISCONSIN AQUACULTURE ASSN. COMMITTEES

The following are committees that were formed at the June meeting. If you are interested in joining any committee, please contact any committee member. The effectiveness of our committees and our organization are based on membership participation.

Committee	Members
<b>Business Development</b> Creation, review and development of business development tools for aquaculture	Peter Fritsch, Sarah Kaatz
<b>Research &amp; Education</b> Coordination and review of research, training, educational programming	Dan Gruendemann Jim Held
<b>Regulatory Policy</b> Coordination, review and impact assessment of regulatory actions	Dave Gollon Terry Hogan Ron Johnson
<b>Perch</b>	Dan Gruendemann
<b>Budget</b>	Jeff Taylor Terry Hogan Peter Fritsch Cindy Johnson

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## MEMBERSHIP CATEGORIES

Active (voting): \$50/ year, Associate (non-voting): \$25/ year  
Group(1 vote): \$75/ year, All memberships RUN NFROM January to December and include annual subscription to *The CREEL*

*The CREEL* reaches many potential customers four times per year. If your business involves the growing or selling of any aquaculture product or any necessary equipment, feed or services, advertising will be a great benefit to you.

The CREEL goes to press the 1st of February, May, August, and November. Please submit photo-ready ad copy and payment to the Secretary/Editor 1 week prior to this for inclusion in the upcoming issue. Rates per issue are as follows:

1/8 page: \$30; 1/4 page: \$40; 1/2 page: \$60; Full page: \$100

# PRESIDENT'S MESSAGE

## JEFF TAYLOR - STAR PRAIRIE TROUT FARM

First off, I want to thank everyone who sent their get well wishes to Patty, she greatly appreciated your warm thoughts (and the Get Well "card" from the conference). She was able to attend June Field Day with me and enjoyed being up in Bayfield again.

We have picked the Country Springs Hotel, Waukesha, for our 2011 Conference. We are excited about this location as we have never had a conference in the SE part of the state and this should also make our conference more doable for the farmers in that region as well as to people in the surrounding states.

This year we are returning to rotating our September meeting between member farms and holding a picnic on that day also. This gives our members a chance to visit other fish farms and tour their facilities as well as enjoy a great lunch and socialize. September's meeting will be at Bullfrog Fish Farm. They raise mostly trout, are open to the public for fee fishing and Herby's Hobo Chefin' Shorelunch on weekends, and they offer fresh and smoked trout for sale as well as other trout products.

The aquaculture industry lost a great supporter and fine man this summer - Rod Nilsestuen, Secretary of DATCP. Rod supported every aspect of agriculture in Wisconsin, including aquaculture. He was a good listener, made you feel important and he understood rural farm life in Wisconsin. He led by example, brought civility and compassion to government and never had a disparaging word, even in the toughest of times. He took time when there was none, wore his Norwegian heritage on his sleeve, and worked for solutions and results not compromise. Our condolence to the Nilsestuen family, Rod's legacy lives on in the family run farms of Wisconsin Agriculture.

WAA is expanding commercial aquaculture's exposure to the public each year. We are attending more events such as WAAE, Farm Tech Days, county fairs (if you want to set up a table at one and need brochures, contact Cindy) and hosting open houses on Aqua-

culture Day. Most of the public does not realize the number of farms there are in this state, nor the products they offer and how intertwined these products are to what this state is. More and more grocery stores are offering Wisconsin grown fish in their seafood department, the thousands of people who pursue recreational fishing are using live bait from Wisconsin fish farms, and what is a get together with cheese and crackers without some fresh smoked trout or spread? Each of us are ambassadors of our industry and therefore we have constant public relation opportunities both in our businesses and with people we meet. Be proactive and spread the good word about the importance of Wisconsin Aquaculture - supplying Fresh and Local Products.

We also need to keep vigilant in regards to new regulations (see page 14 for updates). Currently the most pressing are new and modified regulations coming from DNR and the federal government. While these are meant to protect our resources, we need to make sure that they still allow small businesses to operate. DATCP is considering changes more in alignment with industry wishes. WAA has partnered with DATCP in safeguarding the industry and fishery while assessing stakeholders needs. DATCP's fish health program has been progressive in the past decade - sometimes we forget where we were and how far we as a state and industry have come regarding fish health - lower fish mortalities, ability to transport intra and interstate, marketing advantage of certified healthy fish, etc. Regulations are a tough balancing act - too much and we suffer the ability to stay competitive, or could put us out of business - too little and we risk catastrophic consequences, like the salmon industry in Chile with ISA or what if VHS had made it to one of our farms? We applaud DATCP's openness and willingness to listen to the industry and, hopefully, together rules will emerge that make sense and offer protection.

Until the next time, *Jeff*

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## From the Editor

This has been a very busy summer.

WAA (and the AOS's Jim, Ron, and Sarah) have participated in Four P's Workshop, Kids Fishing Day, June Field Days, Beginning Aquaculture workshops at Bullfrog and Coolidge Springs, VHS HACCP workshops in Ohio and South Dakota, WI Assoc of Ag Educators Conference, Farm Tech Days, Aquaculture Day, and the Tribal Aquaculture workshop - that is almost 1 event a week and the summer is not over yet! Needless to say, I was a little behind in getting the Creel together. So, besides mailing the Creel to you, I also e-mailed it out to our WAA members for whom I have email addresses. This gives me the opportunity to ask you to look at the electronic version, we are considering giving members the choice of receiving the Creel electronically with your membership renewal this fall. This format will also help with our December mailing as we typically send out the Creel to all the schools that teach aquaculture in their Ag program.

As you have noted by now, we have picked the location for the 2011 Conference and we are in the process of lining up a schedule. We have a list of topics we are considering, so if you have any you are interested in, call or mail me. As things get firmed up, I will be sending out list serv messages and posting updates on online. This will also be a great opportunity for you to bring your family for an end of winter get away - Country Springs has a great water-park and for those who want to take advantage of it, they are offering discounts on their rooms with a park package.

Books - For those of you who like hard copies of information - I have what I believe to be, the last 3 printed copies of the NCRAC Sunfish Culture Manual (\$30 each, no tax, incl shipping). WAA now also has available the book - Best Management Practices for Aquaculture in Wisconsin and the Great Lakes Region. With regulations getting stricter, this is an excellent book to have. (\$40 WAA member, \$45 non member)

I hope the summer has been good to you!

Cindy

**CORRECTION**  
In the last Creel, Fresh Flo Corp was inadvertently omitted from the list of conference sponsors.  
We apologize for the omission and want to thank them for their continued support of the aquaculture industry and our annual conference.

## AQUACULTURE DAY CELEBRATED THROUGHOUT THE STATE AT TWELVE MEMBER FARMS



Christine Lindner, 63rd Alice in Dairyland, with Bill Graham, owner of Rushing Waters

This year Fish Farm Day was on July 17th - the 3rd Saturday of July. This coincided with the date of Aquaculture Day, and from now on will always be the third Saturday of July. So mark your calendars for July 16th next year and plan to participate!

There were 12 members who participated this year - several were new participants. The farms were: Bullfrog's Eat My Fish Farm, Coolidge Springs Trout Farm, KP Simply Fresh, NADF, Pheasant Creek, Punk's Pond, Rushing Waters Fisheries, Silver Moon Springs, Star Prairie Trout Farm, Trout Palace, Woods & Waters Enterprises, and Wilderness Springs. Participation varied between farms - anywhere from a half dozen to 175 visitors. Alice in Dairyland visited Rushing Waters during their cooking demo, and Congressman Kagen's aide, Senator Kedzie, and Representative Nerison stopped at farms in each of their districts. WI Farm Report did an interview with Jim Pierce, Trout Palace, prior to Saturday and Channel 5 TV out of Green Bay sent a reporter to Wilderness Springs. Promotional materials were sent to each farm that included: a copy of the Aquaculture Day Resolution, Farmed Fish brochures, conference recipes from Dani Klontz and the brochure

on Wisconsin Aquaculture: Value and Economic Impact. Some farms had a few people stop by on Sunday also. For next year, besides having Aquaculture Day on Saturday, farms can also opt be open on Sunday for those families who like to take a Sunday drive.





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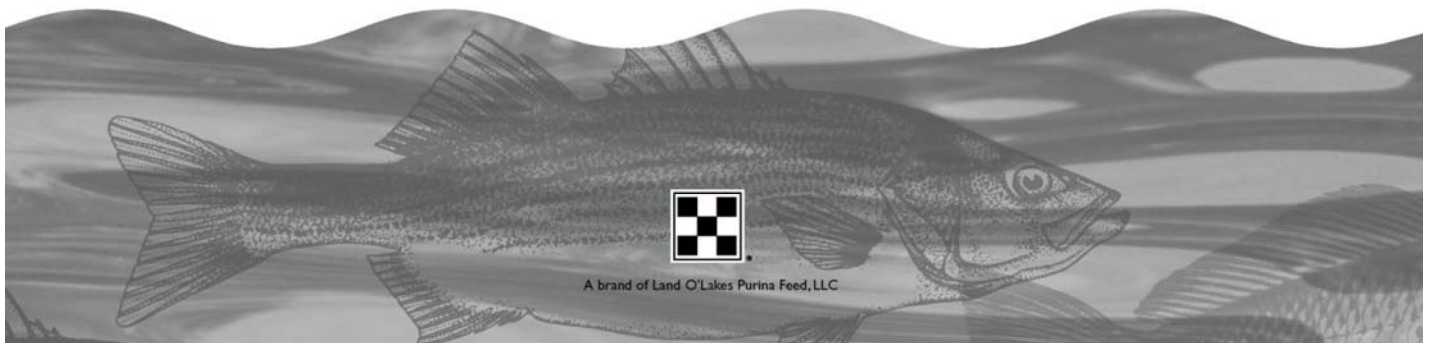


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## June Field Day , cont from page 1

new North Central Regional Aquaculture (NCRAC) Roadmap, a program that offers tutorials on a variety of aquaculture species and topics. The day ended with a general wrap up and discussion period. Throughout the event, participants had the opportunity to meet with vendors and learn about new products. The vendors included Purina, WI Flowgate, Kasco Marine, YSI, Rural Mutual, with Aqua Logic providing literature. This year's event was attended by over 50 people.



Morning Sessions in Bayfield



Water Quality Session at NADF Lab



Vendors Demonstrate Their Products in NADF Ponds

## WAA PARTICIPATES IN 2010 FARM TECHNOLOGY DAYS IN PIERCE COUNTY

For the first time, WAA participated in Wisconsin's Farm Tech Days (July 20-22). This year it was held on a farm just outside of River Falls. In case you have never been to one, the tent city and exhibitor area (over 660 vendors attended) covered 75 acres, with the field demonstration covering 224 acres (mowing, spreading, baling, etc) plus parking which was probably close to 130 acres. Besides the large equipment displays, there was also riding events, sheep dog demo, cattle handling, hitch teams, and many other demos and entertainment venues.



Answering Questions From a Farmer

WAA was in the Diversified Ag tent - there were 7 specialty tents, in addition to the 6 commercial tents for those vendors who do not sell large equipment. The Diversified Ag tent was the last in this row of large tents and is not set up every year. This year it included poultry, dairy goats, sheep, llamas and specialty crops such as grapes, hops, honey, and maple syrup. Between 60-



Aftermath of Thursday's rains  
Photo courtesy Rivertowns.net

80,000 people were expected, but due to the heat on the first 2 days and the downpour on the final day (forcing the events to officially close at 10am) the attendance was down to only about 40,000 people. Ron and I manned the booth and we had about 160 people stop by for information and to ask questions. Next year Farm Tech Days will be just NE of Marshfield in Marathon County, on July 12-14.

**Charles H. Bronson, Commissioner of Agriculture, Florida**  
"Aquaculture continues to be critical in creating jobs and stabilizing our economy."



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## Aquaculture Specialists Participate in Aquaponics Workshops Held in Montello

Jim Held, Aquaculture Outreach Specialist, UW Extension

On July 23<sup>rd</sup> Nelson and Pade, Inc. conducted a three-day aquaponics workshop in Montello, WI. The workshop attracted a group of about 30 participants from a wide variety of states and featured classroom and hands-on activities. As part of the program, Extension Specialist Jim Held offered a presentation on the fish side of aquaponics including information on regulations, RAS systems and the types of fish used in aquaponics and had discussions with individuals on their particular business plans. The workshop also included a tour of KP Simply Fresh, a New Freedom (WI) based aquaponics production facility. Simply Fresh employs tilapia in a raft style system to produce a wide variety of lettuce along with other products such as peppers and basil. Right now they are targeting farmer's markets but hope to expand into hospital and school food service supply. One of the challenges pointed out by John Pade was the growing pains associated with expansion. According to John, a one-half acre facility can be easily managed within the family operation, but once the facility grows beyond 1 acre, paid employees are needed and that opens a whole new can of worms, especially the time needed to administer the business. Of course once you get past that transitional size, the advantages of scale can be applied and things become easier. The aquaponics industry is growing rapidly and may provide opportunities for fish culturists to sell their fish as well as expand into vegetable production. An additional 2 workshops are planned by Nelson and Pade this year (September and December).

## Aquaculture Specialists Present at Wisconsin Association of Agricultural Educators Conference

Sarah Kaatz, Aquaculture Outreach Specialist, UW Extension

On Monday, June 28<sup>th</sup>, the UW Extension Aquaculture Specialists held a workshop for high school agriculture teachers at the annual Wisconsin Association of Agricultural Educators Conference (WAAE) that was held in Madison. The workshop was attended by 25 agriculture teachers who include aquaculture in their curriculums. The two hour workshop included three lesson plans that were prepared for the teachers that they could take with them and incorporate into their classroom. Ron Johnson presented "The Recirculating Aquaculture System Model", an introduction into recirculating aquaculture systems (RAS) and components. The students are required to build their own model RAS with a specific species of fish that are to be "raised" in the system. Students then market and try to sell their system to their classmates. Jim Held presented, "Air Lift Pump Efficiency", a demonstration that shows how efficiently an air lift pump can move water compared to an air stone. Sarah Kaatz presented, "Pond Construction and Soil Porosity", a lab that demonstrates the effect of water movement on pond banks, how different kinds of soil can hold water and the decision these things play in pond construction. Each teacher was given a packet of lab handouts and additional resource material on the three topics as well as a CD of the lesson

## WAAE Conference, cont

plans. The session was well received and we hope to present at the WAAE Conference again next summer. WAA again had a booth at the conference. Mike Kelm, Quiet Springs, attended and helped answer questions from teachers about aquaculture. Tad Storm, Glacier Ponds, donated 100 Perch fingerlings for the door prize. Jason Hovell of the School District of Independence won the fish and Keith Kolpack of Barron High School won the Fish of Wisconsin posters. More photos pg 25



## Fish oil may reduce risk of breast cancer, July 8, 2010

**A recent report in *Cancer Epidemiology, Biomarkers & Prevention*, a journal of the American Association for Cancer Research, adds to the growing evidence that fish oil supplements may play a role in preventing chronic disease.**

Researchers at the Fred Hutchinson Cancer Research Center in Seattle, Wash., led by Emily White, Ph.D., a member of the public health sciences division, asked 35,016 postmenopausal women who did not have a history of breast cancer to complete a 24-page questionnaire about their use of non-vitamin, non-mineral "specialty" supplements in the Vitamins and Lifestyle (VITAL) cohort study.

After six years of follow-up, 880 cases of breast cancer were identified using the Surveillance, Epidemiology and End Results registry.

Regular use of [fish oil](#) supplements, which contain high levels of the omega-3 fatty acids, EPA and DHA, was linked with a 32 percent reduced risk of [breast cancer](#). The reduction in risk appeared to be restricted to invasive ductal breast cancer, the most common type of the disease.

This research is the first to demonstrate a link between the use of fish oil supplements and a reduction in [breast cancer](#). However, White cautioned against gleefully any recommendations from the results of one study.

The rest of this story can be found at <http://www.physorg.com/news197726697.html>



## VHS HACCP Workshop Held in Brookings, South Dakota

Ron Johnson, Aquaculture Outreach Specialist, UW Extension

On June 17, the sixth and final in the series of VHS HACCP Biosecurity Workshops sponsored by NCRAC and Wisconsin Aquaculture Extension was conducted in Brookings, South Dakota. The local sponsors were the South Dakota State University Diagnostic Lab (Regg Neiger DVM) and Porter's Bait Farm (Adam and Mark Porter). There were 20 in attendance representing fish farmers,



natural resource agencies, state and federal agriculture agencies and veterinarians.

The biosecurity team for this workshop was Sarah Kaatz, UW-Extension, Ron Johnson UW-Extension, Ron Kinnunen from

Michigan Sea Grant, and Cindy Johnson, WAA. We want to thank the Diagnostic Lab and Porter's Bait for agreeing to host the workshop at the last minute as Ron Larsen of Larsen Aquaculture Independent Research in Lake Preston, SD was the original host; he became ill and was hospitalized in early June. In addition to Dr Neiger, also speaking at the workshop was Mike Barnes from Spearfish State Fish Hatchery.

Porter's Bait is a three generation family run fish farm with son Adam now running the day to day operations. They have 2500 acres of water in the area that is used to raise suckers and fatheads. The farm is both a wholesale and retail operation. One unique feature is the self-serve retail bait section where local fishermen stop in for their bait on their way fishing. The Eastern part of South



Dakota has been experiencing heavy rains for over a year, which has corrected a drought but now is causing flooding. Porter's is expanding with a new building and ponds. South Dakota is not in the federal

VHS testing zone so biosecurity was not as urgent a topic for those farmers who sell in intrastate commerce but was recognized by those that are shipping out of state as a needed safety program. These workshops have been attended by 116 people and were spread throughout the region with workshops in Michigan, Ohio, Missouri, Indiana, Wisconsin, and South Dakota. Development and presentation of these Biosecurity Workshops was funded by a USDA Grant to NCRAC in conjunction with the Center for Food

## VHS HACCP Workshops, cont

Security and Public Health at Iowa State University, the Northern Aquaculture Demonstration Facility (NADF) Extension Program, and Michigan Sea Grant. As a follow up to these workshops, three general biosecurity plans - one for ponds, one for raceways and the other for recirculation aquaculture systems (RAS) - will be completed and made available plus a DVD will be made covering materials from the workshops.

## Four P's Workshop Held in Madison on May 20, 2010

Ron Johnson, Aquaculture Outreach Specialist, UW Extension

The Four P's of a Safe and Sustainable Aquaculture Industry: Practices, Presentation, Promotion and the Press was held at UW-Madison Department of Animal Science Building on May 20, with 25 people in attendance. The workshop was sponsored by the National Aquaculture Association and the United Soybean Board. This was the first of ten workshops being held around the country to help ensure that the public hears positive, upbeat, scientifically accurate information from as many different sources as possible. Workshop instructors included Dr. Andy Goodwin and Dr Nathan Stone of the University of Arkansas at Pine Bluff (UAPB), Linda O'Diemo, NAA Outreach Coordinator, Betsy Hart, NAA Executive Director, Jeff Malison, Director University of Wisconsin-Madison, Aquaculture Program, and Ron Johnson, University of Wisconsin, Aquaculture Outreach Specialist. Associate Sponsors included: Wisconsin Aquaculture Association, University of Wisconsin - Stevens Point/Northern Aquaculture Demonstration Facility, University of Wisconsin-Madison/ Department of Animal Sciences, University of Wisconsin-Madison/Aquaculture Program, University of Wisconsin Extension, and Coolwater Farms. A great lunch including yellow perch raised at Coolwater Farms was provided (a highlight was watching Peter Fritch eating his fill and commenting how good the fish was!).

The workshop was directed at fish farmers highlighting practices that ensure that the products raised are safe and sustainable. Here in Wisconsin we have been ahead of the curve because many of our farmers helped contribute to the book Best Management Practices for Aquaculture in Wisconsin and the Great Lakes Region edited by Jeff Malison and Chris Hartleb, and our extension staff have conducted numerous workshops on biosecurity. Linda



Peter Fritsch helping himself to perch - he may have even gone back for 2nds. More photos page 26

## Four P's, cont from page 9

O'Dierno *cont on page 10* covered the promotion and press sections giving direction on how to answer the hard questions asked by the press and how important it is to share the good news about your farm and operation. Wisconsin aquaculture, in general, has a good rapport with the press as witnessed by the numerous local articles on fish farming throughout the year and the positive coverage of aquaculture events.

The workshop concluded with a lively roundtable discussion and program evaluation. Thanks to NAA and the outstate speakers for choosing Wisconsin as one of the locations for the workshop.

## Grow Fish - If wild fish turn unhealthy, can farmed stocks swim to the rescue?

From *grow - Wisconsin's Magazine for Life Sciences*, Published by UW-Madison College of Agricultural and Life Sciences

<http://www.grow2.uwcalcommunication.com/food/grow-fish>

WITH MANY WILD FISH STOCKS in decline from overfishing and other threats, aquaculture—the managed cultivation of fish—has taken on a larger role in feeding the nation's growing appetite for seafood. But are farmed fish really any freer from contamination than wild ones?

That all depends, says Jeff Malison, director of the CALS aquaculture program in the Department of Animal Sciences.

"No fish is going to be pollutant-free," he says. "But yes, farmed fish can have much lower levels (of contaminants) than wild fish—at least they have that potential."

Because farmed fish accumulate toxins from the environment and their food just like wild fish do, the key to producing a "clean animal" is to grow it in fresh, unpolluted water and feed it a diet free of toxic ingredients, Malison says. But farmed fish also have a fin up on their wild kin: They grow much faster, which means they have considerably less time to collect pollutants during their short lives. Pond-raised rainbow trout, for example, are usually big enough for the dinner plate by one year old, whereas wild trout of the same size might be three to four years old.

Wisconsin happens to be among the top 10 producers of farmed rainbow trout in the country. But before consumers rush out to buy farm-raised filets of other popular Midwest fish, such as yellow perch and walleye, they should know that fish farming is hardly routine. Malison points out that we raise only about six to 10 bird and mammal species for meat, but we eat around 200 species of fish, each with its own set of environmental needs and tolerances. And with the exception of a few species, most fish have yet to be bred for captivity.

"Even though it was practiced in China 4,000 to 5,000 years ago," says Malison, "aquaculture is still relatively young as a technological industry."

The aquaculture program has been working since the 1970s to improve two critical factors that limit the production of fish: reproduction in captivity and the costs of raising juveniles. The diminutive yellow perch is a prime example. Because it takes many perch to make a meal, farmers need to grow lots of them. "And when you need lots of them you've got to make sure the cost of the ba-

## Farmed Stocks, cont

bies is really, really low to develop a profitable industry," says Malison. "So we've been doing a lot of research on reproduction to try to reduce the cost of fingerling production."

CALS researchers have also studied walleye, but for a very different reason. Carnivorous and aggressive, "it's really kind of a rascal in captivity," Malison says, noting that farmed walleye have a tendency to attack their own mates. To solve this problem, his group is now using Wisconsin Department of Agriculture, Trade and Consumer Protection funds to breed the brutish walleye with a closely related fish, called the sauger. The result is a much more docile fish that also grows faster.

The success of these projects will surely expand the choices consumers have at the grocery store. But another goal is to expand the state's aquaculture industry, which also encompasses bait fish and fish for stocking lakes and rivers. And as Malison notes, Wisconsin has plenty to bring to the table—water resources, farming expertise and, of course, the market. Fish fry, anyone?

## 11<sup>th</sup> Annual Kids Fishing Day at the Northern Great Lakes Visitor Center

Ron Johnson, Aquaculture Outreach Specialist, UW Extension

A tradition that started 11 years ago was again a great success on June 5th with the Kids Fishing Day at the Northern Great Lakes Visitor Center (NGLVC) in Ashland, WI. What truly made this year a broad smile, bent rod, see what I caught fun event, was that each of the 332 kids who participated was able to catch a fish (some as many as 6) – a huge delight to the 215 parents and adults who accompanied the kids! Because of VHS, the NGLVC previously had not been able to stock the pond with the species and number of fish needed to make an event like this a success. In 2009, Ron Johnson, Aquaculture Outreach Specialist, started working with the NGLVC to manage the pond for pan fish. The center monitored water quality each month and installed an aerator to maintain good DO through the winter months and also became a registered DATCP fish farm so they could receive farm raised fish.



The WAA Board voted to take this project on to help supply pan-fish for the kids in addition to having a booth to teach the kids about fish farming and proper use of live bait. Peter Fritch, WAA Board Chairman and manager of Rushing Waters Fisheries, said they were working with Fortune Fish Company from Chicago - Peter asked them for a grant to help with the costs and Fortune Fish Company donated \$600 to help purchase fish. In late May the Gollon Bait and Fish Farm of Dodgeville, Wisconsin delivered 800 bluegill and 200 perch all of catchable size, donating the remainder of the costs. The partnership between these companies and WAA made the Kids Fishing Day a winner.

*cont on pg 11*



## Kid's Fishing Day, cont from page 10

This year the event featured a "Pathway to Fishing" clinic format where families rotated through the stations so kids can learn about stocking programs, fish structure, where fish live, what they eat, and how to catch them. There were also booths teaching kids how to tie knots, casting techniques, boat safety, fishing regulations, about invasive species and how to clean a fish. The kids needed to complete the stations before they were allowed to fish. Each kid received a free starter kit and door prizes which are donated by local shops and tackle companies. Also that day the U. S. Coast Guard brings a rescue vessel for the kids to tour, there are craft activities like fish painting and fly tying and Smokey Bear makes an appearance.

WAA and UW- Extension Aquaculture Program have participated with a booth about aquaculture and live bait the past three years. This year, besides Ron and Cindy Johnson, the booth had help from two students in the aquaculture class taught by Sandy Nass at Ashland High School. The Aquaculture station had fish parts and fish identification games along with a handout with fish word games and information on live bait and tackle needed for fishing. The kids were excited to learn about fish and fishing and for many it is the only day of the year they get to go fishing. Here are some of the comments:

*"I can't believe the Visitor Center offers this type of thing for families"*

*"It was great – the bluegills were biting like crazy."*

*"Thanks to the Aquaculture Association for making this day truly a fishing and catching day – the joy on their faces says it all."*

As a follow up since the June event – the fish are growing and doing well, with the bluegill spawning already. The visitor center has received fish food donated from Purina and the Northern Aquaculture Demonstration Facility. There have been several catch and release fishing clinics this summer for the kids. If you're in the Ashland area stop by to visit and be sure to step out on the back deck and watch the fish. Plans are underway to make a graphic thanking Wisconsin Aquaculture and the companies involved –

A special thanks to Susan Nelson, Interpretive Services Specialist and Jason Maloney, Center Director at NGLVC for coordinating the project and allowing aquaculture to become part of the center's vision. More photos page 26



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## Beginning Aquaculture Workshops Held in Menomonie and Fifiel

Sarah Kaatz, Aquaculture Outreach Specialist, UW Extension

The UW Extension aquaculture specialists, in conjunction with WAA, have held two Beginning Aquaculture Workshops summer. One was held June 26<sup>th</sup> at Bullfrog's Eat My Fish Farm in Menomonie and the other was held August 7<sup>th</sup> at Coolidge Springs Trout Ranch in Fifiel. There were 8 attendees for the Bullfrog workshop and 10 for the Coolidge Springs event. The participants came from around the state, California, Ohio and New York. The workshops followed the same format as the other Beginning Aquaculture Workshops in which participants are given a packet that includes information for starting a successful operation, regu-



BULLFROG'S EAT MY FISH FARM

latory information, Wisconsin aquaculture facts and promotional brochures and a CD of economic models that can be used for proposed facilities. The morning



PARTICIPANTS AT COOLIDGE SPRINGS

sessions are usually held in town, and topics such as introduction to aquaculture, marketing and economics and rules and regulations are addressed. The afternoons are spent touring the host farm and it provides the opportunity for participants to talk one on one with the farmer and to ask what is involved with running a fish farm. At the Bullfrog Farm, Dave Sundal took participants through their entire operation from hatching the eggs to their processing room and smoking facility. Soul-proprietor Herby Radmann was on hand to cook up the farm's famous "Shore Lunch" of grilled trout for the participants.

At Coolidge Springs Trout Ranch, owner Eric Holm *cont pg 13*



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## Beginning Aquaculture, cont from page 12

walked participants through the farm and talked about the spring-fed head water pond, the hatchery facility and outdoor raceways. The aquaculture specialists will have one more Beginning Aquaculture Workshop on September 25<sup>th</sup> at Woods and Waters in Juneau. Please go to the Wisconsin Aquaculture Association's website ([www.wisconsinaquaculture.com](http://www.wisconsinaquaculture.com)) for details. More photos page 26

From WI DNR

## VHS TEST RESULTS IN: FISH DISEASE HAS NOT SPREAD INLAND

Weekly News Article Published: August 10, 2010 by the Central Office

MADISON – The potentially deadly VHS fish virus did not spread to any inland Wisconsin waters that were tested for the virus in 2010, according to state fisheries officials. None of the fish that Department of Natural Resources fisheries biologist collected from nearly 70 lakes and rivers this spring tested positive for viral hemorrhagic septicemia.

"We're pleased that VHS hasn't spread inland and we appreciate the efforts that anglers and boaters have made to keep Wisconsin's

fish healthy," says Mike Staggs, Wisconsin's fisheries director. "These results show that taking the prevention steps can contain the disease as well as help prevent the spread of other aquatic invasive species."

Earlier this year, Cornell University researchers reported finding VHS in Lake Superior fish collected in summer 2009, but no fish kills were evident in that lake in 2009 or 2010 because of VHS, and none of Wisconsin's 2010 testing suggested the virus had spread from that massive lake to inland lakes or streams.

"The good news is we assumed VHS was in Lake Superior when we developed the prevention rules in 2007, and as result, inland lakes and rivers were protected," Staggs says.

VHS can infect several dozen fish species in Wisconsin and can cause them to bleed to death; a recent Michigan State University study shows that muskellunge are most susceptible, followed by largemouth bass, yellow perch, rainbow trout, brook trout, brown trout, Chinook salmon, and Coho salmon. The virus was first detected in Wisconsin in May 2007, when dead fish collected from the Lake Winnebago and Lake Michigan systems were tested and were positive for the virus. Lake Michigan fish again tested positive for the virus in 2008 and 2009. Information on VHS Distribution in Wisconsin is available on the DNR website.

### 2010 MONITORING AND HATCHERY SYSTEM TESTING RESULTS

Wisconsin DNR tests fish for VHS for several different reasons: "surveillance" testing to learn where the virus is present and whether it's spread; to learn if the wild fish DNR uses to get eggs for state fish hatcheries have the virus; and before stocking fish back into lakes or rivers, according to Nick Legler, a fish health biologist who coordinated the VHS surveillance testing. DNR's 2010 surveillance testing was funded through a grant from the U.S. Department of Agriculture and involved DNR crews collecting 3,586 fish from 27 inland lakes and rivers throughout Wisconsin. The fish were all collected between March 24 and May 27, before the water temperatures rose above 60 degrees Fahrenheit, and the goal was to get a total of 150 fish from each water body of various species susceptible to the virus. The fish were sent to one of three laboratories for testing: the U.S. Fish and Wildlife Service La Crosse Fish Health Center in Onalaska; the Wisconsin Veterinary Diagnostic Laboratory in Madison, and Micro Technologies in Richmond, Me. The hatchery system testing was coordinated by Sue Marcquenski, DNR fish health specialist. The wild fish DNR collected eggs from for its hatchery operations were tested for VHS and other viruses. The resulting offspring of these fish were also tested for viruses about before they were transferred from DNR hatcheries into lakes or rivers. VHS was not detected in any fish from the state hatcheries.

For rest of article go to:

[HTTP://DNR.WI.GOV/NEWS/DNRNEWS\\_ARTICLE\\_LOOKUP.ASP?ID=1499](http://DNR.WI.GOV/NEWS/DNRNEWS_ARTICLE_LOOKUP.ASP?ID=1499)

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## Regulatory Committee Update

by Ron Johnson, Aquaculture Outreach Specialist, UW Extension

### Water Use Rules

On August 10, 2010 the Natural Resource Board, at their monthly meeting held in Superior, passed for adoption three water use rules: Water Conservation and Water Use Efficiency Rule (NR 852), Water Use Registration, and Reporting Rule (NR 856) and Water Use Fees Rule (NR 850). WAA had sent a letter during the comment period asking for clarity and changes in wording so aquaculture operations would better fit the criteria in permits and water conservation measures (see web site for letter). One of the concerns the aquaculture industry has is the definition of "withdraw" and how it will apply to fish farms. Kristy Rogers, Water Supply Specialist, with the department has met with Ron Johnson in Brule at the Cedar Island Conservancy and Jeff Taylor, President of WAA, has discussed WAA's concerns with her. Eric Ebersberger, DNR, will attend the September WAA board meeting on September 17 at Bullfrog Fish Farm to go over these new rules. The Natural Resource Board also passed the request to go to public hearing for the Water Use Permitting Rule (NR 860) which will probably go to public hearing in mid October. There is a fact sheet posted on WAA web site explaining the Permitting Rule. The proposed rule impacts those businesses located in the Great Lakes Basin which withdraw water in quantities that average 100,000 gallons per day or more in any 30 day period. Persons who had a water withdrawal before December 8, 2008 at the level requiring permits will qualify for automatic issuance of a permit.

### Stocking Permit Denials

Earlier this summer the DNR added a 6<sup>th</sup> criteria in the application for stocking permits (into waters of the state) with reads "To prevent or control the spread of Viral Hemorrhagic Septicemia (VHS) virus, fish may not be moved or stocked into non-VHS infected waters from VHS infected waters, including fish farms that are directly connected to any VHS infected water. VHS infected waters are defined to be Lake Michigan, Lake Superior, Lake Winnebago System and their tributaries upstream to the first dam or barrier impassable to fish." This has stopped some farms from stocking as their discharge is into waters that are connected to VHS positive water. This policy change has been brought to the attention of both DNR and DATCP and is under advisement.

### DATCP Rule Changes

Melissa Mace, DATCP, has emailed that "the draft is still in progress. We have met with all groups and hopefully we will have a draft for your (aquaculture industry) review by mid

Sept". She also states that they hope to go to the DATCP Board in November or December and have public hearings in January. There is still time for anyone who has thoughts on how the ATCP 10 Administrative Rules covering fish farming in Wisconsin could better serve the industry to let DATCP know. There have been two listening sessions, one that the aquaculture outreach specialists conducted in March and another held at DATCP in May. If you feel the rules need to be changed then let the agency know. You can email suggestions to Melissa Mace at [Melissa.Mace@Wisconsin.gov](mailto:Melissa.Mace@Wisconsin.gov).

cont on pg 15

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### New National Ocean Policy (includes the Great Lakes)

Several members of the National Association of State Aquaculture Coordinators (NASAC) attend an NOAA briefing on August 13th to explain a new policy that is being administrated by Executive Order. Several NOAA staff reviewed the recommendations made by the Interagency Ocean Task Force that have been adopted as a complex program through Executive Order. Inherent to this program will be transparency and this briefing is probably evidence of that effort as well as a webpage that will host information and updates. The website is: <http://www.whitehouse.gov/administration/eop/oceans>. The Executive Order and interagency recommendations are posted on the site. Briefly, the program consists of establishing a National Ocean Council consisting of federal agency representatives, a Governance Coordinating Council (state, local and tribal reps), Steering Committee (Executive Office agencies), and two policy committees (Ocean Resource Management, and Ocean Science and Technology). This structure will produce strategic planning documents and guidance that will be focused on producing nine coastal and marine spatial plans.

This new policy will determine how aquaculture is conducted in Federal waters, which also include the Great Lakes. We will need to keep watch as this unfolds to see how it may affect those states that are in the Great Lakes Basin.

### Natural Water Body Permits

The DNR has been working with holders of Natural Water Body Permits, which are up for renewal in 2010. They divided the permit holders into two groups but by now all those that have NWB permits (with renewal date of 2010) should have received a renewal application. Some of these permits will be renewed in 2011. If you have any questions or difficulties – you can contact either Ron Johnson or Jim Held as they went through the DNR training.

### Finally A Fish Story You Can Believe In - ARS, Cooperators Find Genes Involved in Yellow Perch Growth

By Chris Guy, June 11, 2010

Animal physiologist **Brian Shepherd** at the Milwaukee, Wis.-based aquaculture research unit associated with our ARS U.S. Dairy Forage Research Center at Madison, Wis., and his university colleagues have cracked the code of what takes a yellow perch from "so-so" to Moby Dick: It's a team effort of 28 different genes. <http://www.ars.usda.gov/is/pr/2010/100611.htm>

Twenty-eight genes that are involved in bulking up yellow perch - an important aquaculture fish in the Great Lakes region - have been discovered by Agricultural Research Service (ARS) scientists and university researchers.

Usually, female perch grow faster than their male counterparts, a disparity that causes productivity losses because farmers have to sort out the smaller males. Also, the smaller males still need to be maintained on feed until they reach market size, delaying harvest and increasing production costs. Improvements in production efficiency of the U.S. perch industry would strengthen the farmers' regional and global competitiveness.

Animal physiologist Brian Shepherd, at the Milwaukee, Wis.-based aquaculture research unit affiliated with the ARS U.S. Dairy Forage Research Center in Madison, Wis., worked with scientists from the University of Wisconsin's WATER Institute in Milwaukee. The Great Lakes WATER (Wisconsin Aquatic Technology and Environmental Research) Institute is the largest academic freshwater research facility in the region.

In their indoor tank study, the researchers discovered the growth-linked genes by feeding perch standard diets supplemented with estrogen. Estrogen is not fed to fish in commercial production. The researchers only used it to trigger genes that control growth.

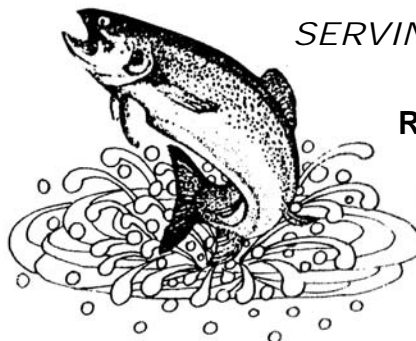
After three months, the perch were much larger. Researchers then sequenced genes from the fish livers to better understand the actual molecular mechanisms by which estrogen promotes growth in males versus females. They found 28 genes that may be involved in the link between estrogen and growth. Understanding the involvement of these genes in growth, and possibly in other commercially important traits, should help breeders boost yellow perch production efficiency.

This research was published in *Physiological Genomics*. ARS is the principal intramural scientific research agency of the U.S. Department of Agriculture (USDA). The research supports the USDA priority of promoting international food security.

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New Fact Sheet out from NCRAC

## **Production of Walleye as Potential Food Fish**

By R.C. Summerfelt, R.D. Clayton, J.A. Johnson and R.E. Kinnunen

Because of their popularity and limited supply, walleye are a high value species, with retail prices in the range of \$6 to 12/lb for skin-on fillets, equivalent to the priciest seafood in Midwest supermarkets. The well developed markets for commercial walleye and its high market value suggest an opportunity for fish farms to culture walleye for food fish markets.

This fact sheet builds on the foundation of cultural technology that has been described in the Walleye Culture Manual (WCM) which is an extensively illustrated reference for walleye culture that was prepared with support from the NCRAC. (this is available as a download from NCRAC.org or the cd can be ordered from WAA) This fact sheet covers the topics How are Walleye Currently Cultured? What Size Walleye is Most Desired? What is the Minimum Food Size For Walleye? What System is Best for Culturing Walleye? What Are the Desired Carcass Qualities? What Are the Three Phases of Walleye Production? and Advice That Favors Success. This full fact sheet can be found at NCRAC.org or Wisconsin Aquaculture.com.

## **UPDATES ON MEMBERS AND FRIENDS**

### **NEW FACES**

Christine Lindner, a Dodge County Farm Bureau member, was selected as the state's 63rd Alice in Dairyland. "Today's consumers are seeking more information about where their food is grown or produced and how it gets to their grocery store shelves," Lindner says. "My goal as Alice in Dairyland is to engage consumers in on-farm experiences showcasing the diversity of Wisconsin's \$59 billion agriculture industry to learn first-hand food comes from a Wisconsin farm." Christine graduated with honors from the UW-Madison in 2006 with a degree in agricultural journalism. Lindner is currently the marketing manager for ANIMART and responsible for the company's dairy and livestock marketing, communications and public relations initiatives.

Mike & Beth Heilman (formerly Brookcrest Fisheries, currently SF Analytical Lab) are proud parents of a new daughter, Brooke Ann, born on June 22.

### **BEST WISHES**

Bev Simonds, DATCP, has accepted a promotional appointment at the Department of Transportation.

Geoff Wallet, Ohio Center for Aquaculture Development and Research, is moving back to Florida in late September to pursue a Doctorate in Aquaculture at the University of Florida.

### **WELL WISHES**

Herby Radmann (Bullfrog Fish Farm) recovering from a fall this spring in which he dislocated a kneecap.

Dave Gollon (Gollon Bait and Fish Farm) has recovered from back surgery he had this past winter to correct a previous injury.

Patty Taylor (Jeff Taylor, Star Prairie Trout Farm) came home in late May after a lengthy stay in the hospital. She is still recovering, but was able to attend the June Field Day workshop, much to everyone's delight.

## **Member Updates, cont**

Lynn Anderson (Sanny Anderson, Lake Island Fish Farm) made a trip to Germany this summer where she received treatment for her paralysis and has shown improvement.

Dave Gruendemann (Northside Enterprises) had hip replacement surgery in January and is walking 4 miles a day.

Chris & Diane Hartleb's (US-SP/NADF) daughter, Abby, has recovered from corrective heart surgery she had in January.

Rick Weidenhamer (Michigan Bait & Fish Farm) had a pacemaker implanted in late winter. He is just about back to his normal work level and is doing fine.

Bill West (Blue Iris Fish Farm) flew to Denver to donate a kidney to his brother (Andrew) earlier this year. Both have recovered and returned to work.

### **WITH SADNESS IN OUR HEARTS**

Mary Gerdes (Larry Gerdes, Valley Springs Elk and Trout Farm) passed away unexpectedly in July. She was recovering from an earlier unrelated surgery.

## **NEWS, UPDATES, BITS & PIECES**

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### **FUNDING OPPORTUNITIES**

**Applications Invited for the Rural Microentrepreneur Assistance Program - Deadline this quarter is Sept 30**  
USDA's Rural Business – Cooperative Service has issued a [Notice of Funds Availability](#) (NOFA) for the [Rural Microentrepreneur Assistance Program](#) (RMAPNOFA) announces the availability of \$45.1 million in support for Microenterprise Development Organizations to provide loans and technical assistance and training to rural microentrepreneurs and microenterprises. Interested applicants should contact their State's USDA Rural Development Office for application forms and with questions. See [NOFA](#). <http://edocket.access.gpo.gov/2010/pdf/2010-13380.pdf> for state offices

### **REAP Feasibility Study Funding Available**

<http://farmenergy.org/news/reap-feasibility-funding-available>  
The USDA has now released this year's funding notice for feasibility studies under REAP - the Rural Energy for Americana Program. Feasibility studies evaluate the likelihood of renewable project success in consideration of technical, financial, management and other factors. USDA requires feasibility studies for project funding under REAP where project costs exceed \$200,000.

Eligible recipients for the funding are limited to agricultural producers and small rural businesses – not consulting firms. The total funding level for any feasibility award is still limited to \$50,000, or 25% of total project cost. Unfortunately, state funding is not allowed to be counted as non-federal cost share.

As with REAP generally, the feasibility studies apply to a wide range of technologies including geothermal, wind, solar, numerous biomass technologies, small hydroelectric, marine, and biofuels.

*cont on pg 20*

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**Paul Williams – Owner of Owen and Williams Fish Farm**, producers of game fish, grass carp, and catfish.



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**Peter Fritsch – Farm Manager for Rushing Waters Trout Farm**, the largest Rainbow Trout producer in the Midwest.

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## Omega-3s benefit lungs, uterus, hearing

By SeafoodSource staff

11 August, 2010 - New research in Europe and the United States shows that seafood consumption benefits the health of lungs in children, the uterus and hearing in older adults.

The four new studies were published in the August issue of the PUFA and Fats of Life e-newsletters.

Two European studies reported that middle-aged and older adults who ate at least 3 ounces of fatty fish a week were 30 percent less likely to develop heart failure or acute coronary syndrome compared to those who did not eat fish.

In the United States, studies show that healthy toddlers who consumed different amounts of omega-3 DHAs (docosahexaenoic acids) found that those in the highest DHA group (130 milligrams daily) had significantly fewer respiratory illnesses — 17 percent compared to 46 percent — than the group that received unsupplemented formula.

Premenopausal women may also benefit from higher intakes of omega-3s. A large U.S. epidemiological study of 1,000 women showed that those with higher intakes of omega-3s had a 22 percent lower chance of developing endometriosis.

“These findings are especially intriguing because the treatment option for endometriosis are limited and often undesirable,” said Joyce Nettleton, PUFA and Fats of Life editor. “If proven effective in controlled intervention trials, omega-3s would offer non-invasive treatment without side effects.”

## Omega 3, cont.

Also, for the first time, research in older adults linked fish consumption to a significantly lower chance of developing age-related hearing loss. In one study, those who ate fish at least one or two times a week experienced half the rate of progressive hearing loss over five years compared with those who didn't eat fish.

## Over twenty years electrofishing

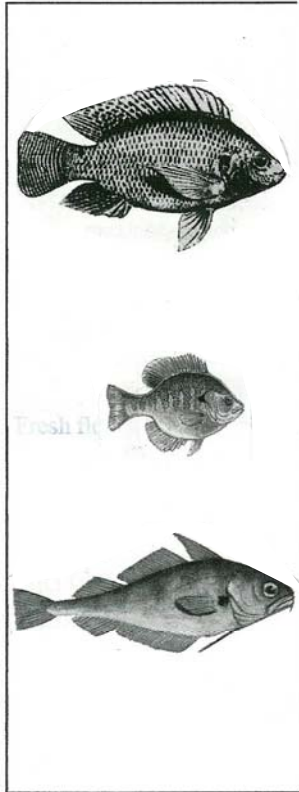
*Nets huge database on walleye Population*

By Sue Erickson, Staff Writer, Mazina'igan, Spring/Summer issue 2010, page 3

### Odanah, Wis.

Veterans of numerous midnight patrols along the shores of ceded territory lakes, GLIFWC's electroshocking crew leaders, Butch Mieloszyk and Ed White, recall the days when GLIFWC had only one shocking boat, no radios, no cell phones, seemingly hand-drawn, incomplete maps from the Wisconsin Department of Natural Resources (WDNR) map archives, and not even a spare tire for their boat trailer.

When Mieloszyk joined GLIFWC staff as its first fishery technician, one of his first challenges was to construct an electroshocking boat. It was the first of 14 boats that Mieloszyk would help assemble over the years. 1985 Mieloszyk recounts was the trial year for the new boat and crew. “With only one *cont on page 19*



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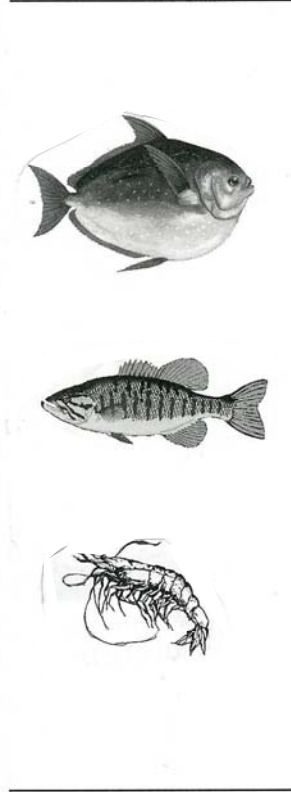
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## Tribal Hatcheries Released Over 50 Million Fish into Both On & Off-Reservation Waters in 2009

Tribe/Hatchery Rearing Component	Walleye		Muskellunge		Yellow	Lake	White	Bk/Bn/Rb	Lake	White	Total
	Fry	Fgl	Fry	Fgl	Perch	Strgrn	Fish	Trout*	Trout	Sucker	
Bad River	3,800,000	134,600			513,800						4,448,400
Grand Portage								51,000			51,000
Keweenaw Bay		16,450						34,592	53,395		104,437
Lac Courte Oreilles	1,206,000	128,546	37,200							499,840	1,871,586
Lac du Flambeau	20,500,000	195,494	145,000			1,015		27,595		4,000,000	24,869,104
Leech Lake	10,243,350	246,362					130,357				10,620,069
Menominee	100,000	6,000									106,000
Mole Lake	2,500,000										2,500,000
Red Cliff		314						29,532			29,846
Red Lake		10,000				10,000		10,000			30,000
Sault Ste. Marie	3,500,000	1,519,265									5,019,265
St. Croix	332,896	25,355									358,251
White Earth		193,751		565		13,183					207,499
<b>TOTALS</b>	<b>42,182,246</b>	<b>2,476,137</b>	<b>182,200</b>	<b>565</b>	<b>513,800</b>	<b>24,198</b>	<b>130,357</b>	<b>152,719</b>	<b>53,395</b>	<b>4,499,840</b>	<b>50,215,457</b>

\*Total number of one or combination of trout species

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### Twenty Years, cont from page 18

boat, it took us sixteen weeks.”

A joint assessment performed in 1990 of ceded territory lakes resulted in the *Casting Light Upon the Waters* report, developed by federal, state and tribal fishery managers. Released in 1991 the report confirmed that spearing did not harm the fishery.

Today, GLIFWC operates four electrofishing boats. Both Mieloszyk and White are crew leaders. Temporary crew is hired for both the spring season (about two weeks) and the fall season (about six weeks).

Besides the routine spring and fall assessments, GLIFWC’s electrofishing crews have participated in a variety of other projects, including fyke netting assessments. They have also done stream shocking on foot, largely to provide a data base on fish species in specific streams and rivers in relation to proposed mining projects near Crandon and Ladysmith, Wisconsin. They also annually collect walleye samples for mercury testing, which ultimately provide the information recorded on GLIFWC’s mercury maps, and more recently, assisted in the collection of muskie cleithra, cranial bone, used for aging.

What is known is that as a result of the many midnight hours marking and recapturing walleye, the data base on the ceded territory walleye today probably provides one of the most comprehensive pictures of a fishery in this nation—a huge, cooperative accomplishment! And, after twenty plus years on these lakes in spring and fall, White and Mieloszyk have a wealth of knowledge about those lake ecosystems, more than just about anybody.

## Bits & Pieces, cont from page 17

The deadline for applications is October 5, 2010 and they must be submitted to the state USDA Rural Development office. (WI USDA Energy Coordinator is Brenda Heinen, WI Rural Development Office, 715-345-7615 X139, [brenda.heinen@wi.usda.gov](mailto:brenda.heinen@wi.usda.gov))

Applicants should contact the USDA Energy Coordinator very early to get the guidance you need. As with any grant application, it is very important to read and follow the Notice of Available Funding (PDF format).

For general information and to receive resource packets, call Focus on Energy is 800 762-7077.

From USDA

### DIETARY REPORT RELEASED

"Report of the Dietary Guidelines Advisory Committee on the Dietary Guidelines for Americans, 2010" released in June and published jointly USDA/HHS. It is updated every 5 years. <http://www.cnpp.usda.gov/DGAs2010-DGACReport.htm> cont pg on 21

This update has numerous references about seafood and even recognizes aquaculture -

Part B Section 3, page B3-8

### LATEST DATE ON DOMESTICALLY GROWN TROUT RELEASED

USDA ERS has released its latest data on domestically grown catfish and trout and U.S. imports and exports of fish and shellfish that may be products of aquaculture. Data can be found at <http://>

[www.ers.usda.gov/Data/Aquaculture/](http://www.ers.usda.gov/Data/Aquaculture/)

From AgNewswire

### STATE'S FIRST AGRICULTURAL ENTERPRISE AREAS ACCEPTED BY DATCP BOARD

Twelve areas of mostly agricultural land covering nearly 200,000 acres will be the focus of the hearings sponsored by the Department of Agriculture, Trade and Consumer Protection. At a recent meeting, the Board of Agriculture, Trade and Consumer Protection voted to accept all 12 Agricultural Enterprise Area (AEA) petitions submitted to the department from Bayfield, Chippewa, Dane, Dodge, Jefferson, Langlade, Polk, Rock, St. Croix, Shawano and Waukesha counties. "The next steps are to make the designations official through the state's rulemaking process and public hearings are part of that process," explains Coreen Fallat, AEA program manager. Written comments will be accepted until Tues., Aug. 31. Send comments to DATCP, Attn: Coreen Fallat, PO Box 8911, Madison WI, 53708-8911. Comments will also cont on pg 21 be accepted electronically at either [DATCPWorkingLands@wisconsin.gov](mailto:DATCPWorkingLands@wisconsin.gov) or online at <http://adminrules.wisconsin.gov> then search on "ATCP 53."

### FOREIGN POLICY DEBUNKS 'SUSTAINABLE' AG TO FEED HUNGRY

An article in the May/June 2010 issue of *Foreign Policy* urges Whole Foods shoppers to "stop obsessing about arugula. Your 'sustainable' mantra—organic, local and slow—is no recipe for saving the world's hungry millions." Writer Robert Paarlberg notes that

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## Bits & Pieces, cont from page 20

Africa has a “sustainable food” system, and it doesn’t work. “Helping the world’s poor feed themselves is no longer the rallying cry it once was. Food may be today’s cause célèbre, but in the pampered West, that means trendy causes like making food ‘sustainable’—in other words, organic, local and slow.”

### USDA LISTS 6,132 OPERATIONAL FARMERS MARKETS

USDA announced that the 2010 National Farmers Market Directory lists 6,132 operational farmers markets, representing 16 percent growth over 2009, when the agency reported 5,274. <http://apps.ams.usda.gov/FarmersMarkets>

### AFBF BACKS LINCOLN-KYL ESTATE TAX AMENDMENT OVER FEINSTEIN BILL

The American Farm Bureau Federation is supporting an amendment to the small business bill by Sens. Blanche Lincoln (D-Ark.) and John Kyl (R-Ariz.) that would set the estate tax exemption at \$5 million with a 35 percent maximum rate. AFBF has not taken a position on a recently introduced estate tax bill by Sen. Diane Feinstein (D-Calif.). The Feinstein bill, S. 3664, the Family Farm Estate Tax Referral Act of 2010, would defer estate taxes on farms and ranches if a number of conditions are met. AFBF supports the Lincoln/Kyl amendment because it seeks a permanent forgiveness of estate taxes while the Feinstein bill is a deferral with taxes owed if property were ever sold outside the family or ceased to be used for agriculture. In addition, the Lincoln/Kyl amendment provides “no strings attached” simple estate tax relief, while the Feinstein bill is a complicated proposal that will continue to require estate tax planning.

From USFWS AADAP

### BIOLOGICS POSTER ON SCHEDULE

The publication of the “Approved Vaccines for Use in Aquaculture” poster is scheduled to be printed within the next 2 months

### COMPANION TOOL NEARS COMPLETION

A companion tool to AADAP-AFS “Approved Drugs for Use in Aquaculture” poster is in the final stages of development. The desk-reference booklet (also a partnership project of the American Fisheries Society and AADAP) will contain the same information as the poster, as well as suggested guidance on “How to Calculate” the proper dose or concentration of approved drugs as per label instructions. USFWS plans on being able to begin distribution in September 2010.

### GUIDE BEING REVISED

The “Guide to Drugs, Vaccine, and Pesticide Use in Aquaculture” is in the process of being revised. When finished, it will be available in electronic format only.

### GENETICALLY ALTERED SALMON GET CLOSER TO THE TABLE

By ANDREW POLLACK, Published: June 25, 2010

The [Food and Drug Administration](#) is seriously considering whether to approve the first genetically engineered animal that people would eat — salmon that can grow at twice the normal rate. *Cont on pg 22* The developer of the salmon has been trying to get approval for a decade. A public meeting to discuss the salmon may be held as early as this fall. Some consumer and environmental groups are likely to raise objections to approval. Even within the F.D.A., there has been a debate about whether the salmon should be labeled as genetically engineered (genetically engineered crops are not labeled). Rest of story

[http://www.nytimes.com/2010/06/26/business/26salmon.html?\\_r=1&emc=eta1](http://www.nytimes.com/2010/06/26/business/26salmon.html?_r=1&emc=eta1)

From DATCP

### NEW SUBSCRIPTION SERVICE MAKES IT EASIER TO STAY INFORMED OF DATCP’S ONLINE CONTENT

Thursday, August 19, 2010

Lee Sensenbrenner, 608-224-5020

MADISON -- The Wisconsin Department of Agriculture, Trade & Consumer Protection announced today the availability of a new email and digital subscription management (EDSM) feature on its website. The service allows anyone to subscribe to topics of interest and receive instant, automated email or wireless notification whenever DATCP posts new information. Email and wireless alerts link subscribers back to the updated website for more detail. Signing up is free, easy, and risk-free. Visitors to the DATCP website can click on the “Sign Up for Email Updates!” icon or the “Sign Up for Updates!” link under online services to sign up and see *cont on pg 22* what pages are available for subscription. The only information that’s required is an email address, and subscribers can change their subscription details or cancel the service at any time.

To sign up today, visit: <http://datcp.state.wi.us/>.

### COAL MINES AS FISH FARMS? THAT’S THE HOOK IN W. VA.

(May 30) - The U.N. Food and Agricultural Organization estimates that 110 million metric tons of fish were consumed worldwide in 2006. A report released in September by the National Academy of



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Sciences found that deep-sea fisheries can't keep up with escalating demand: Aquaculture now accounts for half the fish people eat, partly owed to the popularity of salmon, a natural source of omega-3 fatty acids that help combat heart disease.

So some see opportunity knocking deep down in the ground. There are reportedly 1,000 shuttered coal mines just within the so-called "Pittsburgh coal basin" that encompasses Pennsylvania and West Virginia. An abandoned mine is, in effect, a gigantic subterranean rain barrel. Why not make productive use of all that trapped water?

The rest of the story: <http://www.aolnews.com/nation/article/coal-mines-as-fish-farms-thats-the-hook-in-wva/19495621>

**FISH FARMER IN OHIO USING USDA VALUE ADDED LOAN TO EXPAND BUSINESS**

By STEVE HUSZAI  
Staff Writer

Read rest of story at <http://www.the-daily-record.com>

Dave Lemke, owner of Scales to Tails in Wooster, OH, has added a hydroponics greenhouse to grow berries and vegetables to reuse the fish farm's water and a bioreactor that will use the fish waste to help grow black soldier fly larvae which can then be used as fish meal. The \$6 million expansion of his business is estimated to generate 20 full time jobs at the fish farm.

Reporter Steve Huszai can be reached at 330-287-1645 or e-mail [shuszai@the-daily-record.com](mailto:shuszai@the-daily-record.com).

From *GlobeandMail.com*

**BLAMING SALMON FARMS FOR DECLINE MAKES FOR ONE FISHY TALE**

By GWYN MORGAN, Published *Monday, May 31, 2010*  
Gwyn Morgan is the retired founding CEO of EnCana Corp.

Activists calling for an end to open-net ocean salmon farms, argue that the spread of sea lice from the farms were responsible for the decline of wild salmon. Mark Sheppard, the Canadian provincial government's leading aquatic veterinarian, has testified saying: "Lice abundance on both farmed and wild fry have actually declined for five consecutive year" And scientist with the Canadian Federal Department of Fisheries and Oceans, has found that only three dozen harbour seals killed an estimated 10,000 spawning adult salmon and he also calculated that more than three million salmon fry were taken from the river as they swam toward the ocean the following spring.

From *Fishline*

Colorado Aqua Assn June 2010 newsletter

**NEW VHS STUDY**

"VHS Study" by Mark B. Bain, et al, concluded that survey "results and the record of VHSV in freshwater and marine habitats of Europe and North America, raise the possibility that VHSV was present in the Great Lakes for perhaps an extended period of years where it may have persisted in a subclinical form before the increase in infection pressure or other factors triggered major fish die-offs." The open source article, *Distribution of an Invasive Aquatic Pathogen (Viral Hemorrhagic Septicemia Virus) in the Great Lakes and Its Relationship to Shipping*, Public Library of Science One 5 #4, can be found online at <http://www.plosone.org/>.

Cont

From NASAC

July 2010 Ramblings Newsletter

**NEW ELECTRONIC INVASIVE SPECIES NEWS SUMMARIES AVAILABLE**

The U.S. Fish and Wildlife Service is offering frequent electronic updates focused on aquatic invasive species news including information about new species, new species sightings, and the Stop Aquatic Hitchhikers! and Habitattitude campaigns. If you would like to subscribe, then click on the following URL:

<http://groups.google.com/group/ans-news/sub?st=NEMJgwAAACZ2TluJ3ZgTZn3elzzFrbi&hl=en>

From the FDA

**US: FORMER CEO OF SEAFOOD IMPORTING CORPORATION SENTENCED TO FEDERAL PRISON FOR IMPORTING FALSELY LABELED FISH**

July 29, 2010

<http://www.fda.gov/ICECI/CriminalInvestigations/ucm220519.htm>

NEWARK, N.J. -- Thomas George, the former Chief Executive Officer of Sterling Seafood Corporation, was sentenced today to 22 months in prison for importing falsely labeled fish from Vietnam (Pangasius hypophthalmus, sometimes referred to as Vietnamese catfish) and evading over \$60 million in federal tariffs, as well as selling over \$500,000 in similarly misbranded fish purchased from another importer, United States Attorney Paul J. Fishman announced.

**2010 CALENDAR OF EVENTS**

**MEETINGS**

**Sept Board Meeting**

Sept 17, 9:30 am  
Bullfrog Fish Farm  
N1321 566th St.  
Menomonie, WI

**WAA Member's Picnic**

Sept 17, noon - ?  
Bullfrog Fish Farm  
Please RSVP to Cindy - 715-373-2990 by September 14

**WORKSHOPS**

Beginning Aquaculture  
September 25  
Location: Woods & Waters Ent., Juneau, WI

**2011 CALENDAR OF EVENTS**

**2011 CONFERENCE**

March 11-12  
Location: County Springs Hotel, Waukesha, WI

**MEETINGS**

March 11, Annual Members meeting  
  
March 12, Board meeting

**2011 AQUACULTURE DAY**

July 16

# A G E N D A S / M I N U T E S

**Wisconsin Aquaculture Association  
Quarterly Board Meeting  
Sept 17, 2010, 10:00 am  
Bullfrog Fish Farm, Menomonie, WI**

**AGENDA**

*Board Chairman vacancy  
Minutes from 6-11-2010 and approval  
Treasurer Report and approval  
Secretary Report  
Committee Reports -  
    Regulatory  
    Business Development  
    Research & Education  
Upcoming Workshops  
2011 Conference  
Other Old Business  
New Business  
Adjourn*

**WAA Quarterly Board meeting, June 11, 2010  
Northern Edge Restaurant, Bayfield WI**

Meeting was called to order at 8:14 am by President Jeff Taylor

Present: Jeff Taylor, President; Mike Kelm, Director; Dave Gollon, Director; Cindy Johnson, Secretary; Rick Decker; Ron Johnson; Pat Heckert; Sarah Kaatz; Jim Held; Barb Kelm

**Minutes from March**

Motion made to approve by Mike Kelm, 2<sup>nd</sup> by Jeff Taylor, approved

**Financial Report**

Motion made to approve by Dave Gollon, 2<sup>nd</sup> by Mike Kelm, approved

**Secretary Report**

Went over several items

**4P's Workshop** – We didn't get the attendance we were expecting - the date wasn't good for farmers, and more teachers and students were anticipated to attend. (See story on page 9)

**Fish Farm Day** – the following will be done: Cindy will send out PR, mail farmed fish brochures and economic value of aqua to participants, make up flyers each farm can print off and post, send brochures for the Beginning Aquaculture workshops, send out recipes from Dani, will send farms a press release and will invite legislators. (See story on page 4)

**Member's picnic and board meeting in September** – will ask Herby if he would like this to be at his farm and what day and date would be suitable for him.

**Farm Tech Days** – we need to purchase insurance (\$100) and an exhibitor pass (\$15) - need vote that we go forward

with this. The people organizing this event are excited that we are coming – they feel a lot of people are interested in aquaculture. We will be in the Diversified Ag tent, so there is no charge for the table, and since this is not in the commercial area, we cannot bring any materials to sell. (See story on page 6)

**Best Management Practices book** – the book costs us \$35 each (plus small shipping charge). It sells for \$40 on the UW-Madison site. Dave Gollon suggested we sell it for \$45 and to WAA members for \$40

**2011 committees** – Jeff said we can keep the same members – I will email everyone to see if they still want to be on the committees.

**2011 Conference** – Cindy is checking on more hotels. It was asked if we picked the same place each year, we would get a good deal on the conference rather than move it around the state. Currently, the differences in airfare between the major cities wasn't much – about a \$60 spread.

Possible topics

Nets & Seining, Research students, FFA recipient, Social networking, Update on proposed Farm to School Program, Alternative feeds, HACCP biosecurity plan for farms, Sound environmental use of water, have Dr. Fysal speak on recent VHS discoveries (a side comment was made that the VHS rules are different in each state based on whether NR or AG is in charge)  
Dates – first choice is March 11 & 12, 2<sup>nd</sup> choice is March 18 & 19

**For discussion at Sept meeting-**

- 1- Creel - should we ask members if they would like to have the Creel emailed (this will save us about \$1.72 per member per mailing)? We mail out about 300 each time (more in December), we need to keep the minimum at 200 to get the bulk mailing rate. Email would also make the Creel more accessible to schools.
- 2- Added benefits to being an Active level member
- 3- Incentive for members who do not have a website to get one through WAA
- 4- Added advertising option for vendors

**Committee reports**

**Regulatory – Ron Johnson**

2 weeks ago the stocking permit application was changed (see Regulatory Committee Update, page 14). Some farms are getting stocking permits denied. There were several issues discussed. This is setting precedence, and if/when VHS is in the Mississippi basin, this will affect most fish farmers in the state. It was suggested that a letter from WAA, signed by Jeff, be sent. Some changes are being pushed through now that the legislators are out of session and with the anticipated change in leadership.

Other regulatory items will be discussed at the WAIAC meeting

**Bus Development – Sarah Kaatz**

Make Bandli, Ron Johnson and Sarah have been working on the "Guide for Wisconsin Fish"

*Cont pg 24*



## WAA Minutes, cont from page 23

### Research & Education – Jim Held

Nothing to report.

Dave relayed that Tim was very impressed with the June workshop, especially the Walleye information. It was suggested to do another workshop similar to this one but have 2 levels – Beginner and Experienced.

### Upcoming workshops

- The last VHS Biosecurity workshop will be June 17 in South Dakota
- There are 3 Beginning Aquaculture workshops this summer (see story on page 12)
- WI Assoc of Ag Educators – extension is doing a workshop again for aquaculture teachers, Mike Kelm will be helping at the WAA booth (see story on page 8)
- There is tribal workshop planned in August at NADF. Extension is working with BIA and Fish & Wildlife and the workshop will be offered to tribes in MN, WI and MI

### Old Business

Ron thanked WAA, Gollon Bait & Fish Farm, Rushing Waters Fisheries and Fortune Fish for participation in the Kid's Fishing Day with supplying bluegills and perch for the Northern Great Lakes Visitor Center pond. The Kid's Day was successful, every kid who fished got a fish hooked. WAA shared a table with Ext and had educational games for the kids to play and passed out information including the farmed fish brochures. This was a good way to get information into the hands of the parents. *Continued*

## THE COOK'S CORNER - Dani Klontz Tortellini Salad with Trout and Peas

### Ingredients

- 8 ounces fresh trout fillet, skin removed
- Salt and pepper
- 1 pound fresh cheese tortellini
- 3/4 cup light mayonnaise
- 2 tablespoons fresh lemon juice
- 1 cup frozen peas, defrosted
- 1/2 cup finely chopped fresh basil leaves

### Preparation

1. Preheat grill to high; oil grate. Sprinkle trout with pepper. Grill trout, turning once, until cooked through and easily flaked with a fork, about 12 to 15 minutes total.
2. Meanwhile, bring a pot of salted water to a boil. Cook tortellini according to package label directions, about 7 minutes. Drain and run under cold water, then drain again.
3. In a large bowl, whisk together mayonnaise and lemon juice. Mix in tortellini and peas to coat. Season with salt. Gently stir in trout and basil and serve.

## WAA Minutes, cont

(See story on page 10)

There was a discussion of NADF, financing and NOAA grant funding procedures.

### New Business

Next meeting we need to discuss funding ,including extension now that Congressman Obey is retiring. Extension has been a very good asset to the industry

Make Kelm made the motion to adjourn, 2<sup>nd</sup> by Dave Gollon, passed. Adjourned at 9:54 am

Due to there not being a quorum, items needing a vote were emailed out to all board members after the meeting.

## Wisconsin Aquaculture Industry Advisory Council Minutes, abbreviated June 10, 2010 Northern Edge Restaurant, Bayfield

Meeting called to order by Ron Johnson at 10:07am.

**Members Present:** Jeff Taylor, Bill West, Dave Gollon

**Others in attendance:** Ron Johnson, Chris Hartleb, Sarah Kaatz, Grant Henry, Jim Held

### Introductions

**Review of minutes** (sent to Mike Bandli)

### Work Reports:

**Business (Ron Johnson):** White paper development from Guide for Wisconsin Farm-Raised Fish. Tool (Media Kit) is being developed for farmers to use.

**Business, cont. (Sarah Kaatz):** Bret Shaw, Environmental Communications Specialist and assistant professor in the department of Life Sciences Communications at UW Madison is conducting a bait dealers survey on industry perceptions of aquatic invasives and VHS. The goal of the study is to determine how effective these four segments of the fishing industry (bait industry, fishing guides, marina owners and fishing advocacy groups) are as educators of aquatic invasive species.

### Research (Jim Held):

NADF Report: The RAS economic model concept was presented yesterday (6/9/10) at the NADF Field Day and Vendor Fair. We are waiting for reviews of the manuscript to come back. The model and paper will be available this summer on the NADF website.

*Cont pg 25*

The pond fertilization study at Lake Mills has completed data collection.

NADF projects that are ongoing are:

- Diet study with Purina looking at high protein, low starch fish diets
  - Walleye, sauger, saugeye project
  - Feed v. forage studies for stocked fish
- Student interns

**Regulatory (Ron Johnson):**

(See page 14 in this issue of the Creel for more on reg updates)

Stocking permit issues:

There have been some issues with stocking permits.

Item #6 has been added to the stocking permit and as such, *cont* permits are getting denied (Handout supplied) – Item 6: “To prevent or control the spread of Viral Hemorrhagic Septicemia (VHS) virus, fish may not be moved or stocked into non-VHS infected waters from VHS infected waters, including fish farms that are directly connected to any VHS infected water. VHS infected waters are defined to be Lake Michigan, Lake Superior, Lake Winnebago System and their tributaries upstream to the first dam or barrier impassable to fish.”

Listening Session with DATCP:

A synopsis of the listening session was given.

Water Regulations issues:

Ron is on the Water Conservation Efficiency and Use Committee and they are establishing Great Lakes Compact information.

Natural water body issues:

The Natural water body permits are coming up for renewal.

Need for water efficiency practices for aquaculture was noted.

Motion to adjourn by Bill West; seconded by Jeff Taylor.  
Meeting adjourned at 11:49am.

For complete minutes, please contact Mike Bandli at 608-224-5136 or [Mike.bandli@datcp.state.wi.us](mailto:Mike.bandli@datcp.state.wi.us)

**CLASSIFIEDS**

\$10/issue, up to 100 letters/spaces. Also check out WAA web classifieds for more information on ads listed.

**FOR SALE**

2 cmptmt insulated transport tank w/ 2 aerators - 36"x48.5"x58". 400 gal cap. \$1200, 262-297-2021 Slinger, WI

**Mike Rowe -  
Discovery Channel's "Dirty Jobs"**

Mike Rowe has been doing "Dirty Jobs" since 2005. As the creator, executive produce and star, he has worked over 200 jobs and, as such, has a good perspective on the occupations that keep America going. Rowe says the farmers he has met through his line of work have taught him the importance of getting real about protecting the food supply to feed a growing population, and the problem that activist groups pose to that challenge.

Quotes from Mike Rowe:

"On Dirty Jobs, I'm no expert. But I have a theory, and it goes like this – all jobs rely on one of two industries – mining and agriculture. Every tangible thing our society needs is either pulled from the ground, or grown from the ground. Without these fundamental industries there would be no jobs of any kind. There would be no economy. Civilization begins with miners and farmers, and polite society is only possible when skilled workers transform those raw materials into something useful or edible."

"... U.S. animal agriculture is under siege, and we're well on our way to getting our eggs from China and our beef from Brazil. I auditioned the other day. I don't recall the whole thing, but it started out like this – 'Every year we demand more and more from our farmers. More food from less land. More food from less energy. More food from less labor. And every year our farmers deliver.' Two percent of our population provides the rest of us with all the food we need, and we behave as though it's our birthright. It seems to me that as a country, we could do a better job of supporting the people who feed us."

For more on what he has to say, see his [Mike Rowe Works](#) website.



**WAAE CONFERENCE,  
AQUACULTURE WORKSHOP**

# WAA STORE

## Books

- NCRAC -Sunfish Culture Guide - \$30  
(Only 3 loose leaf copies left)
- Managing Wisconsin Fish Ponds - \$15

## NEW BOOK

- Best Management Practices for Aquaculture - \$40 for WAA Members, \$45 non WAA Members

## CD/DVD's

- NCRAC -Walleye Culture Manual, cd - \$20
- NCRAC - Yellow Perch Cultural Manual, cd - \$20
- UW -Spawning of Yellow Perch, dvd - \$10

## Misc

- "Fish of Wisconsin" poster - \$5 ea or \$3 ea for 10 or more
- Baseball Cap - faded denim w/ WAA logo - \$12

All prices include shipping  
All items available on our website:  
[www.wisconsinaquaculture.com](http://www.wisconsinaquaculture.com)

or

Call, write, or email

P.O. Box 1408

Bayfield, WI 54814

715-373-2990

[cindy@wisconsinaquaculture.com](mailto:cindy@wisconsinaquaculture.com)



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# WISCONSIN AQUACULTURE ASSOCIATION, INC.

## MEMBERSHIP APPLICATION/RENEWAL FORM

### MEMBERSHIP LEVELS

**Associate - \$25** - Receive 4 issues of The Creel, name & address listed on members search, inclusion on member only list serv for vital information

**Active - \$50** - Benefits of Associate level, plus: active members can vote and serve on board, as officers or on WAIAC, listed on members search by business, processing, sales and fish species

**Group - \$75** - 1 active membership and up to 4 associate members - farm/vendor employees, , agencies, university, etc.

Check here if your  name,  address,  phone,  fax or  email has changed

Name \_\_\_\_\_ Title/Position \_\_\_\_\_

Business Name \_\_\_\_\_

Address- Mailing \_\_\_\_\_ Physical \_\_\_\_\_

City, State Zip Code \_\_\_\_\_

Phone: Home (will not be on website) \_\_\_\_\_ Business (on website) \_\_\_\_\_

Website \_\_\_\_\_ Email \_\_\_\_\_

Put me on WAA list serv \_\_\_\_ Yes (need email address) \_\_\_\_ No Put me on WAA printed directory \_\_\_\_ Yes \_\_\_\_ No

**Business (check one):**  Wholesale  Retail  Recreational/Private  Starting  Tribal  School  
 Government  Aquaculture Supplies/Products/Consulting/Insurance  Veterinary  Research/Laboratory  
 Organization  Other \_\_\_\_\_

**Type of Membership:**  Renewal  New

Active (\$50.00/year - voting) \_\_\_\_ Associate (\$25.00/year - non-voting) \_\_\_\_ Group (\$75.00/year) \_\_\_\_

**For Group level includes 1 active member, up to 4 associates - list members name (designate active member)**

\_\_\_\_\_  
\_\_\_\_\_

### ADVERTISING OPTIONS AND RATES

#### NEW - More options to advertise on WAA's web site

WAA now has 2 hot link categories to your website to choose from:

**Industry Links**, with subcategories of **Aquaculture Product, Live Fish** and **Misc.**

**Consumer Links** with subcategories of **Fee Fishing** and **Fresh/Smoked Fish, etc.**

**Cost is** \$20 a year for members, \$30 for non members.

**Don't Have a Web Site?** WAA has a special price of \$100 for a 1 page web site—includes 1-2 pictures, text description of your farm and contact info, your own stand alone domain name, your logo can be added. After that maintenance with changes is \$50/year. To see an existing page go to <http://donaldbloecherjr.com/>

**Banner Ads:** \$100/year

**Advertise in "The Creel"** - prices are per issue  Full Page \$100;  1/2 Page \$60;  1/4 Page \$40

**Creel classifieds:** \$10/issue, up to 100 spaces/letters, will be added to web classifieds

**Web classifieds** are free

Send this form & a check or money order to: **WAA,**

**P.O. Box 1408, Bayfield, WI 54814**

# Wisconsin Aquaculture Association, Inc.

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## WISCONSIN AQUACULTURE ASSOCIATION

