**Incoming President's Message for Members:**

Hello AZ/NM AFS! I am excited for the upcoming year for our Chapter. As a group we hosted a successful Western Division meeting in May, and I would personally like to thank Amy Unthank, Pam Sponholtz, Marianne Cox, Matt Rinker, Chuck Benedict, Heidi Blasius, Julie Carter, Joanna Whittier, Colleen Caldwell, Lynn Starnes, Scott Bryan, Anne Kretschmann, Yvette Paroz, Shannon Ruckauf, Tammy Knecht, and all the committee members and volunteers. Their guidance and tireless efforts are what made the meeting a complete success, Thank you! I would like to welcome Julie Carter as president elect. I hope the membership will take the time to get to know her and benefit from Julie's vast knowledge of fisheries. I look forward to working with Marianne, Amy, Pam, and Julie over the next few years.

As you have all seen, the 43rd Joint New Mexico and Arizona Chapter meeting will be held in Flagstaff, AZ from February 4-6, 2010. This year it is being hosted by the Arizona Chapter of the Wildlife Society at the Radisson-Woodlands Hotel. We will be holding our chapter business meeting at this time to hear reports from our committees, members, three student sub-units/ chapters, and to catch up and talk shop.

One of the most important things we can do as a Chapter is to get students involved and excited about fisheries science in all its aspects. We can provide volunteer and learning opportunities for our sub-unit chapters, and keep them informed about internships and scholarships to help them get excited about working in fisheries. I also strongly believe in work within our local communities and with our neighboring tribes to educate school children and teenagers about fisheries. We can make a difference by volunteering our time to kids programs, tribal youth programs, and the Hutton Program to get kids interested, excited, and involved in fisheries. The next generation(s) of fisheries biologists are in our hands if we rise to the challenge and do all we can to help them on their journey.

The Executive Committee and I invite you to join us for another successful year in coordination and information sharing of fisheries science and resource management.

~Stephanie Coleman, 2009-2010 AZ/NM AFS President

Past-President's Message for Members:

Our AFS AZ/NM Chapter had an exciting and tumultuous year! Many thanks to all of the hard work from individuals and volunteers who continue to make our chapter a success, contributing to professional fisheries management and conservation. We look forward to the upcoming year and the joint AFS/TWS meeting that will be held in Flagstaff, AZ February 4th - 6th. Please make sure to submit your abstracts so we can continue to support the Chapter and to share and showcase the all of the great fisheries and related aquatic work happening in our corner of the country. Here is a recap of the past year of activities and achievements:

- The Chapter held its annual business meeting February 5, 2009 during the annual joint chapter meeting hosted by The Wildlife Society in Gallup, New Mexico. The meeting was well attended by Arizona and New Mexico members with 27 voting or affiliate members in attendance. The Chapter's membership is currently at 198 members; 66 affiliate and 62 full members.
- The AZ/NM webpage has moved! You can now locate information about the AZ/NM chapter activities and information at www.aznmfishsoup.org. Check out information on upcoming workshops, meetings, resources, etc. This website is maintained by AZ/NM member, Joanna Whittier.
- There are currently three newsletter issues compiled and distributed to chapter members a year with each issue focusing on one of the following topics: hatcheries, native fish, and sport fish.
- The Chapter Continuing Education Committee worked with the Western Division Public Education Committee to circulate and complete a survey on participation in outreach/education and is awaiting the results. The Chapter sponsored a piscicide application and certification class in January 2009 and is pursuing offering the training on a consistent basis to ensure managers have the tools needed for effective and responsible management.
- The AZ/NM Chapter organized and hosted the 2009 Western Division meeting in Albuquerque from May 3 - 7, 2009. The theme of the meeting was "Evolution of the Western Landscape: Balancing Habitat, Land and Water Management for Fish". Chapter members dedicated considerable time in support of making the meeting a success. Four workshops were planned and included: Genetics for Fishery Biologists, Aquatic Invasive/Nuisance Species Update, GIS, PIT Tab Reader Construction, and Hydroacoustics. Only the Genetics for Fishery Biologists and the Aquatic Invasive/Nuisance Species Update classes were held due to low attendance. Eight Concurrent sessions including 120 oral presentations and 44 poster presentations were held with topics including:
 - Fish Barriers and Piscicides: Challenges and Achievements with Tools of the Trade for Native Fish Restoration
 - Aquatic Invasive Species
 - The Legal, Political and Economic Challenges of Fish Protection and Recovery in New Mexico, and the Way Forward
 - Mercury Rising: Monitoring and Management of Coldwater Streams
 - Habitat Management

- Are Current Native Trout Strategies Adequate in a Warming Climate?
- Ecology, Conservation, and Management of Fishes in the Pecos River Drainage
- Standard Methods for Sampling North American Freshwater Fishes
- Numerous student activities, evening social events, and multiple symposia covering a broad range of western state and province issues were presented.
- The chapter hosted the Western Division Meeting in Albuquerque, NM. Due to poor attendance and a poor economy \$19,740.96 was lost on the meeting. The Western Division graciously took responsibility for the outstanding amount owing on the meeting, and contributed funding to cover one half the overage as well as ensured the Arizona New Mexico Chapter received an additional \$2,000 towards the considerable planning effort required to host the meeting.
- Much gratitude and appreciation goes to the Hyatt Regency Albuquerque for forgiving the remainder of the balance owed for putting on the Western Division meeting in light of the economic downturn. Their recognition of the vital importance of nonprofit organizations demonstrates their commitment and support of conferences such as the AFS Western Division annual meeting that allow for information sharing and growth of the fisheries community.
- Students that attended the 2009 WDAFS Annual Meeting had the opportunity to defray some of their meetings costs by working at the meeting. Approximately 20 student workers, representing two countries and seven schools provided assistance. The student workers were all professional and their upbeat attitude and work ethic helped make the 2009 WDAFS meeting a great success. Students assisted with audio visual loading and presentations, raffle and silent auction, and the spawning run.
- Students were also able to attend a Student Colloquium where they were able pose questions and discuss career, employment, academic and training opportunities with a panel of professionals from nongovernmental, federal, state, academia, and private organizations. Student feed-back after the event indicated that the colloquium was a worthwhile activity for them.
- The Chapter currently has 3 student sub-units: New Mexico State University (NMSU; 11 members), Arizona State University (ASU; 20) and The University of Arizona (UofA). The NMSU sub-unit activities during the past year included a Clean UP at Bum Lake, Las Cruces. The ASU subunit a joint AFS / TWS / SRM sub-unit and has conducted flyfishing field trips and monthly activities that include activities such as fishing, bird watching, camping and Kayaking to promote the outdoors and conservation. The UofA sub-unit assisted the Arizona Game and Fish Department with construction of rock gabions on Conklin Creek, AZ, assisted in sampling Aravaipa Canyon, AZ and hosted multiple guest lecturers during the past year.

We look forward to another successful year! See you in Flagstaff!

~ Marianne Cox, 2009-2010 AZ/NM AFS Past-President

~ Amy Unthank, 2009 Western Division Meeting Planning Committee General Chair

43rd Joint Annual Meeting
AZ & NM Chapters of The Wildlife Society
AZ/NM Chapter of the American Fisheries Society
Flagstaff, Arizona , February 4-6, 2010
CALL FOR CONTRIBUTED PAPERS AND POSTERS
Deadline: December 1, 2009
<http://joomla.wildlife.org/Arizona/>

The Arizona Chapter of the Wildlife Society will host the 43rd Annual Joint Annual Meeting in Flagstaff, Arizona, February 4-6, 2010 at the Radisson-Woodlands Hotel. We invite submission of contributed papers and posters on topics of wildlife science, management, conservation, education, or policy. Presentations will not be published, so we encourage reports from the author's most recent scientific investigations and management experiences. Papers and posters will be accepted based on their technical merit and contribution to our knowledge of species, populations, communities, ecological processes, management practices, conservation initiatives, education models, or policy issues. Presentations from students are encouraged. Time and /space is limited, so we may not be able to accept all papers/posters submitted. All contributed papers (oral presentations) will be scheduled for 20 minutes, which includes 15 minutes for the presentation and 5 minutes for questions. We urge participants to consider presentation of their work as posters. Posters provide an opportunity for authors to participate in more detailed communication with attendees. Posters are displayed for at least a full day and authors are requested to attend their posters during the scheduled time. Posters are limited to a space 4 ft x 4 ft and will be displayed on boards 4-ft. high x 8-ft. wide. Notice of acceptance status will be made by email.

Abstracts will be accepted in any MS Word format and should be submitted to stu_tuttle@msn.com. The abstract should not exceed 300 words, and include a statement of objectives, brief description of methods, principal results, and conclusions. Include scientific names in the abstract but not in the title. Also, do not abbreviate place names in the title. Do not repeat paper/poster title or author information in the abstract. Indicate who is presenting and if the presenter is a student.

Registration

All presenters MUST register and pay the appropriate conference registration fee. Advance registration is strongly recommended. Registration information on AZ TWS' website.

OFFICER NOMINATIONS

We will now begin accepting nominations for the **2011-2012 Chapter President and 2010-2011 Secretary/Treasurer**, who will be elected at the upcoming business meeting at the Joint Annual Meeting in February. The person elected President will take office in August 2010 and serve a three-year term, performing the duties of President-Elect in 2010-2011, President in 2011-2012, and Past-President in 2012-2013. Traditionally, since we alternate between a President from New Mexico, followed by a President from Arizona, this year's nomination for President should be from New Mexico. Please submit your nominations for Chapter President-Elect to **Stephanie Coleman** at smcoleman@fs.fed.us by **January 10, 2010**. We will provide the opportunity for mail-in ballots in early January 2010, and the official election will occur at the 2010 business meeting.

CALL FOR NOMINATIONS FOR ANNUAL AFS AWARDS

We have the opportunity to award our peers and those outside our profession for their outstanding work related to fisheries and the aquatic resources through awards given at the Joint Annual Meeting in February; please submit your nominations for these two awards to **Marianne Cox** at mcox@agfd.gov by **January 10, 2010**.

Professional of the Year Award

The Professional of the Year Award is awarded to an individual employed in a capacity related to fisheries and aquatic resources. Nominations for individuals should include a brief biography along with information pertaining to service, impact on the resource and other professionals, and significant accomplishments.

1. Only members in good standing can make nominations.
2. The recipient must be a member in good standing.
3. The award is based on fisheries-related work accomplished in Arizona or New Mexico and can span more than one year.
4. The nominee may not be on the Nominations/Awards Committee.
5. Eligible accomplishments by the nominee can be from any of the following categories:

Administration

- a. Development of innovative management programs, research activities, or facilities that significantly affect fisheries management and conservation on a regional or statewide level
- b. Leadership in implementation of regulations or management programs that address regional or statewide fisheries issues
- c. Development of new sources of funding for fisheries programs
- d. Leadership in the development of public outreach or recognition/award programs
- e. Significant and effective promotion of fisheries management and conservation activities on a regional or statewide level

Culture

- a. Development of techniques that produce fish more safely, more efficiently, or more economically

- b. Development of methods that produce species not formerly cultured
- c. Development of techniques that produce more fish
- d. Participation in the development of equipment that benefited fish culture
- e. Promotion of fish culture
- f. Participation in the production of a record number of fish (may be station or species specific)

Education

- a. Development of an innovative approach to fisheries education as illustrated through development of a new or revised course or curriculum
- b. Publication of a journal article, extension, publication, book, or book chapter that contributed significantly to fisheries education
- c. Contribution of notable service in public education programs
- d. Development of educational media (software, videotape, slide tape, etc.) that contributed significantly to fisheries education.
- e. Outstanding contribution to the profession through service as an officer or other leader of an educational organization (e.g., Education Section of the AFS)

Management

- a. Development of management plans or strategies or implementation of management practices (reservoir or pond management plans, pre-impoundment work, habitat work, development of urban fisheries). This would include private water work
- b. Education of the public in areas of fishing or fisheries management (conducting fishing clinics, educational programs, contact with various media, development of brochures, newsletters, bulletin boards, fliers, popular articles, etc.)
- c. Coordination with different agencies (cities, counties, or federal government) or reservoir controlling authorities to develop or implement management strategies
- d. Participation in professional scientific organizations in the fisheries field to include offices held, committees served on, or other activities accomplished for the organization.

Research

- a. Research contribution should add to the understanding of a biological problem or to solving a resource problem.
- b. Research contribution can be basic, applied, or a combination.
- c. Research contribution should have been disseminated, in order of importance, in a peer-reviewed journal, non-peer-reviewed publication, or an oral presentation.
- d. Research in professional and public organizations in the fisheries field, which comment, advise, or review research activities.
- e. In order of importance, the nominee's role in a research project should be directing the project or program, establishing the project or program, analyzing data, or conceiving the project or program.

Technical Support

- a. Development of new or improved design and/or construction of equipment used in field sampling, culture operations, lab analysis, etc.
- b. Participation in outstanding or unique management, research, or culture activities, which contributed significantly to the fisheries profession.
- c. Participation in programs to educate other fisheries workers or the public (fishing clinics, seminars, articles, brochures, etc)
- d. Accomplishments resulting in new or improved techniques or greater efficiency (data compilation and analysis, improved lab techniques, more productive fish culture techniques, improved fish sampling techniques, etc.).

Conservationist of the Year Award

The Conservationist of the Year Award is for significant involvement and accomplishments by an individual or group not employed in the fisheries or aquatic resources profession. Nominations should include a brief biography and discussion of the significant involvement and contributions towards conservation of fisheries and/or aquatic resources. The only criteria for this award is that the award is based on fisheries and/or aquatic resource-related work accomplished in Arizona or New Mexico and can span more than one year.

AZ/NM AFS CHAPTER NEWS!!!

FUNDRAISING AND RAFFLE CHAIRPERSON NEEDED!

Have you always wanted to volunteer for the chapter? Here's your opportunity!! The chapter has an opening for our fundraising and raffle chairperson. If you are interested or have questions, contact **Stephanie Coleman** at smcoleman@fs.fed.us.

Environmental Review Committee American Sportfishing Association Policy Alert: HR 2565: The National Fish Habitat Conservation Act

Introduced in the House by Ron Kind (D-WI) on May 21, 2009, the National Fish Habitat Conservation Act (NFHCA) will establish a comprehensive national framework for conserving, restoring and enhancing fish habitats throughout the United States. Modeled on the successful Migratory Bird Joint Ventures and North American Wetlands Conservation Act, the Act will provide for essential funding for fish habitat protection, restoration and enhancement through regional partnerships that engage local partners in conservation action and provide a solid science-based and strategic approach to on-the-ground conservation efforts. This legislation will have a significant impact on improving fisheries across the country. While there are numerous efforts underway to address declining fishery health and habitat at the grassroots level, there is a need for conservation action on a range-wide scale for these efforts to be successful. The NFHCA will authorize the most comprehensive effort ever attempted to improve fish habitat. By restoring fish habitat and boosting fish populations, the NFHCA will improve fishing opportunities across the country, helping to ensure that individuals and their families and friends can get outside and enjoy our nation's aquatic resources. In order to ensure this important bill is passed, we need your help! Please write a letter to your House of Representatives member asking for

their support of the NFHCA. www.capwiz.com/asafish/issues/alert/?alertid=13845556&type=co. Additional co-sponsors are needed in order for this bill to succeed. For more information on how you can prompt your elected officials to get involved in passing the National Fish Habitat Conservation Act, please visit <http://capwiz.com/asafish/home/>.

EPA Requests Comments on Survey for Stormwater Rule

The U.S. Environmental Protection Agency is proposing a survey to help strengthen stormwater regulations and reduce stormwater discharges from newly developed and redeveloped sites. Stormwater discharges can harm water quality through increases in stormwater volume and pollutant loadings into nearby waterways. Generally, as sites are developed, less ground area is available for rain to soak into, which increases stormwater volume. This stormwater flows across roads, rooftops and other surfaces, picking up pollutants that then flow into waterways. The draft survey would require detailed information about stormwater management and control practices, local regulations, and baseline financial information. EPA plans to propose a rule to control stormwater from newly developed and redeveloped sites and to take final action no later than November 2012. In support of this rulemaking, EPA is proposing to require three different groups to complete questionnaires about current stormwater management practices: 1) the owners, operators, developers, and contractors of newly and redeveloped sites; 2) the owners and operators of municipal separate storm sewer systems; and 3) states and territories. The proposed survey will be open for public comment for 60 days following publication in the Federal Register. More information: <http://www.epa.gov/npdes/stormwater/rulemaking>

WEBSITE!

Check out our AZ/NM website!

<http://www.aznmfishsoup.org/>

If you have any suggestions, or items that may be of interest to members, please send them to Jodi Whittier at whittier@ksu.edu.

STUDENT UPDATES!

New Mexico State University Student Subunit

The NMSU Student Subunit is currently planning several on-campus activities for the fall semester including cleaning Knox Pond (the pond beside Knox Hall where the Fish, Wildlife, and Conservation Ecology Department is located) and two days where local kindergartner students will come to the college and learn about fish and other aquatic life.

New officers were elected in April 2009 for the New Mexico State University (NMSU) Student Subunit. Congratulations to the new officers:

Matt Zeigler – President
Zach Tiamen – Vice President
Jennifer Redman – Secretary
Amanda Ginithan – Treasurer

We are also looking for volunteer activities or guest speakers for the spring 2010 semester. If you have any ideas or suggestions for volunteer opportunities, please contact Matt Zeigler at zeiglerm@nmsu.edu.

~ Matt Zeigler

2009-2010 President

**Check out the
New Mexico State University
Student Subunit Website!
<http://cahe.nmsu.edu/academics/clubs/AmcnFisheriesSoc/index.html>**

University of Arizona Student Chapter

The University of Arizona Student Chapter is currently looking for speakers and volunteer opportunities for the 2009-2010 semesters. Please contact 2009-2010 president, Lisa Trestik at Lisat@email.arizona.edu if you have any opportunities or project ideas.

Arizona State University

The Arizona State University Student Subunit elected new officers for the 2009-2010 school year. If you have any questions, comments, or ideas for our student subunit please contact Jamie Evans, past-vice president representative of AFS at jamie.evans@asu.edu.

WESTERN DIVISION

2009 Annual Meeting Awards

Congratulations to all award winners!

- **Best Student Poster Award** went to Eric Andersen of Oregon State University for his poster summarizing work on Bayesian networks for prioritizing stream connectivity projects.
- **Best Student Oral Presentation Award** went to Jonathan Gerken of the University of Alaska-Fairbanks.
- The **Eugene Maughan Scholarship** for a Master's student went to Gerard C. Carmona of UC Davis and the PhD student recipient was Joseph H. Anderson of the University of Washington.
- The **Sustainable Fisheries Foundation** William Trachtenberg Scholarship went to Matthew P. Corel of the University of Montana.
- The **Western Division's Award of Excellence** this year honored Emeritus Scientist Bruce Rieman of the Forest Service Rocky Mountain Research Station and his exemplary career contributions to fisheries science.
- The **Conservation Achievement Award** was given to the Devil's Hole Pupfish Incident Command Team and Associates for their continued efforts at preventing the extinction of this species.
- The **Chapter of the Year Award** was given to the Oregon Chapter.
- The Palouse Unit (Idaho Chapter) was recognized with the **Student Unit of the Year Award** for a second year in a row. Both Oregon Chapter and Palouse Unit applications were forwarded to the Parent Society to compete for awards to be received at Nashville.
- Recipients of the **Riparian Challenge Awards** included the Bureau of Land Management's Coos Bay District for the North Coquille River Restoration Project, and the U.S. Forest Service's West Fork Clear Creek Streambank Restoration Project led by Bill Janowsky on the Arapaho-Roosevelt National Forests and Pawnee National Grasslands.
- Leanne Roulson and Jim Tilmant were also recognized for their years of service in the

development of the Western Native Fishes database.

WDAFS NEW OFFICERS

Dave Ward (Oregon) has been elected as WDAFS Vice President. Dave has served two terms as Secretary-Treasurer for the Division and will now serve as Vice President. Mary Buckman (Oregon) was elected Secretary-Treasurer. Thanks Dave and Mary for your service!

Western Division 2009 Meeting Abstracts

Abstracts from the Western Division of the American Fisheries Society 2009 Annual Meeting in Albuquerque, New Mexico are available online on the WDAFS website:

www.wdafs.org/archives/Meeting%20abstracts.html

WESTERN DIVISION ANNUAL MEETING 2010

**"The Future of Aquatic
Resources in the West: Science,
Management, and Politics"**

April 19- 23, 2010

**Utah's Salt Palace and Radisson Hotel
Salt Lake City, UT**

<http://www.utahafs.org>

On behalf of the Utah Chapter, we invite you to join us in Salt Lake City, April 19 – 23 for the 2010 Western Division of the American Fisheries Society Annual Meeting. The meetings will be held at the Downtown Radisson Hotel and adjacent Salt Palace Convention Center. The theme of the meeting, **"The Future of Aquatic Resources in the West: Science, Management, and Politics"** is meant to highlight the multiple stakeholders/demands placed on aquatic resources; how these demands drive the direction of scientific inquiry and management; and the political interaction that results. The Western US is home to the five driest states in the nation and three of the top five states with the fastest population growth. The

West's aquatic resources are facing increasing demands resulting in intersections between science, management, and politics. We encourage symposia, papers, and posters that build on the meeting theme and demonstrate how fisheries scientists, aquatic resource managers, and politicians address the challenges facing fish populations and aquatic ecosystems. We encourage meeting participants to enjoy all that Salt Lake City and the surrounding area offers before, during, and after the meeting. Salt Lake City hosted the 2002 Winter Olympics. Since the ski season can extend to mid-May, you can experience the "Best Snow on Earth" (*Ski and Skiing* magazine ranked the local Alta, Snowbird, Brighton, and Solitude resorts as four of the top five spots for best powder) as you ski at Olympic Venues or ride down the Olympic bobsled track. Salt Lake City was named the "Fittest City in America" by *Men's Fitness* magazine (February 2009). As you can imagine, there are numerous opportunities to enjoy Utah's great outdoors in and around Salt Lake City. Hiking and mountain biking adventures abound in local canyons and nearby state and national parks. Exceptional fishing can be found in several Blue Ribbon Waters within 45 minutes of the city center such as the Middle and Lower stretches of the Provo River. Utah is also famous for dinosaurs and is home to Dinosaur National Monument. If you do not want to drive to Vernal to see dinosaurs, the Museum of Ancient Life has one of the world's largest permanent dinosaur exhibitions. In addition to Utah's wonderful outdoor opportunities, Salt Lake City has numerous museums, galleries, and cultural events.

Job Postings And

Volunteer Opportunities!

We are happy to post job and volunteer opportunities for members. Please send postings to the Editor by **February 10th** for inclusion in the Spring 2010 newsletter. If you have opportunities that you would like members to know about sooner, please email them to Jeremy Voeltz at Jeremy_Voeltz@fws.gov.

The Tributary is the newsletter of the Western Division of the American Fisheries Society. The **August 2009** edition is now available online.

www.wdafs.org/newsletters/archives/The%20Tributary_August2009.pdf

PARENT SOCIETY!

American Fisheries Society

140th Annual Meeting

September 12-16, 2010

Pittsburgh, PA



ABSTRACT SUBMISSION OPEN!

Symposia Deadline January 8, 2010

Contributed Abstract Deadline

February 5, 2010

www.fisheries.org/afs10/index.php

There's no place like Pittsburgh, Pennsylvania, for the 140th meeting of the American Fisheries Society. Join us downtown **September 12-16, 2010**, at the spectacular Westin Hotel and the David L. Lawrence Convention Center. Pittsburgh is renowned for its arts, entertainment and recreational opportunities. With fabulous dining, world-class museums and innovative art galleries, Pittsburgh is one of the top travel destinations in the world. Sporting opportunities are diverse. Pittsburgh is home to Super Bowl Champion Pittsburgh Steelers, Stanley Cup Champion Pittsburgh Penguins and the Pittsburgh Pirates. On the water, enjoy fishing along Pittsburgh's river banks for bass and other game fish. Explore beyond the city. You will find solace in the mountains of western Pennsylvania for hiking or native brook trout fishing. Try white water rafting in the rapids of the Youghiogheny River. With so much to see and do, you'll find Pittsburgh is a city with a warm and welcoming atmosphere. We look forward to seeing you in September 2010.

NEWS!!

New Online Tool to Predict Stream Concentrations of Atrazine

Online predictions for stream concentrations of atrazine, one of the most heavily used herbicides in the United States, are now available as interactive maps and graphs for any stream across the country. The predictions are based on a USGS statistical model - referred to as Watershed Regression for Pesticides (or "WARP"). This model also provides key statistics for each selected stream, including the probability that atrazine may exceed a water-quality benchmark of potential concern, and a level of confidence and uncertainty associated with each estimate. This release is the first in a series of statistical models for atrazine and other pesticides. The models are based on monitoring in 112 streams from 1992-2001, as well as watershed characteristics that affect the occurrence of pesticides in streams. The driving characteristics include agricultural pesticide use, and natural features, such as soil characteristics, hydrology, and climate. Current models make predictions from estimated atrazine use during 2007. Access the online mapping tool, USGS report, and technical announcement at: <http://water.usgs.gov/nawqa/> under Featured Highlights. Lead contact for questions: Bob Gilliom, rgilliom@usgs.gov, 916-278-3094.

~AFS Parent Society Website, Gus Rassam.

EPA AQUATOX Aquatic Ecosystem Simulation Model Released

The U.S. Environmental Protection Agency, Office of Science and Technology, has released an enhanced version of the aquatic ecosystem simulation model AQUATOX. AQUATOX is a PC-based ecosystem model that predicts the fate of nutrients and organic chemicals in water bodies, as well as their direct and indirect effects on the resident organisms. AQUATOX Release 3 contains many enhancements that increase the realism and utility of the model. The most important enhancements include: Capability to represent estuaries at a screening level; Capability to

model multiple linked river and reservoir segments; Enhanced nutrients analysis, including nutrient release from sediments, daily dissolved oxygen fluctuations, and toxicity from low oxygen and ammonia; Capability to simulate biological effects of suspended and bedded sediments; Calculation of biological metrics; Enhanced sensitivity and uncertainty analyses; Toxicity data estimation from ICE (Interspecies Correlation Estimation); Expanded data management, graphics and statistical analysis. The software is now open source, meaning that other modelers can customize AQUATOX for their particular application. Visit the AQUATOX web site at <http://epa.gov/ost/models/aquatox/> for more information or for downloading the model and its associated documentation.

~AFS Parent Society Website, Gus Rassam.

EPA Preliminary Toxins Release Data Available to Public

The U.S. Environmental Protection Agency has published preliminary data on the release of toxic chemicals occurring in the United States between Jan.1 and Dec. 31, 2008. In its continued commitment to openness and transparency, EPA is taking the unprecedented step of releasing the raw data prior to the agency completing its analysis. EPA is analyzing the data and will publish the national analysis once it is completed. EPA's job is to ensure an open and transparent flow of information between Americans and their government, and today's unprecedented step represents the agency's commitment to doing just that, said EPA Administrator Lisa P. Jackson. While we are still analyzing this information, we hope this raw data will be reviewed and used responsibly by stakeholders and the public to help them make informed decisions. The Toxics Release Inventory is a database that contains detailed information on nearly 650 chemicals and chemical categories that more than 23,000 industrial and other facilities manage through disposal or other releases, recycling, energy recovery, or treatment. The data are collected from industries including manufacturing, metal and coal mining, electric utilities, commercial hazardous waste treatment, and other industrial sectors. Facilities must report their data by July 1 of each year. The

preliminary data account for approximately 80 to 85 percent of the data to be collected. EPA will continue to process paper submissions, late submissions, and to resolve issues with the electronic submissions. The agency will update the dataset in September and again in October so citizens will have complete access to the information. More information on the data: www.epa.gov/tri

~AFS Parent Society Website, Gus Rassam.

USGS Study on Mercury Contamination in Fish, Bed Sediment, and Water

The USGS released a study today that assesses mercury contamination in fish, bed sediment, and water from 291 streams across the nation, sampled from 1998 to 2005. The report, along with a press release, podcast, and summary of major findings can be accessed at <http://water.usgs.gov/nawqa/mercury/> Scientists detected mercury contamination in every fish sampled in every stream. About a quarter of these fish were found to contain mercury at levels exceeding the criterion for the protection of people who consume average amounts of fish, established by the U.S. Environmental Protection Agency (EPA). More than two-thirds of the fish exceeded the EPA level of concern for fish-eating mammals. Atmospheric mercury is the main source to most of these streams - coal-fired power plants are the largest source of mercury emissions in the United States - but 59 of the streams also were potentially affected by gold and mercury mining. Since USGS studies targeted specific sites and fish species, the findings may not be representative of mercury levels in all types of freshwater environments across the US. For more information, contact Barbara Scudder, bscudder@usgs.gov, (608) 821-3832 or Mark Brigham, mbrigham@usgs.gov, (763) 783-3274.

~AFS Parent Society Website, Gus Rassam.

EPA Section 319 Nonpoint Source Grants Database

EPA's Nonpoint Source Grants Reporting and Tracking System (GRTS) is the primary tool for management and oversight of state Nonpoint Source (NPS) Management Programs under Section 319 of

the Clean Water Act. EPA recently added new tools to the GRTS database to enable the public to search for information about NPS pollution control projects. One way to search the database is to perform a criteria-based query. This method is best for finding 319 projects that meet certain conditions; for example, NPS projects that implement a Total Maximum Daily Load to control mine waste, or projects implementing best management practices for waters polluted by urban runoff. To search for projects, visit <http://iaspub.epa.gov/grts/projects>. Another new search tool is the interactive map, which enables browsing for project information by watershed. Simply use the find, pan, and zoom buttons to navigate to the location of interest, and the 319 projects will appear, summarized by watershed.

At a regional scale, projects are displayed by sub basins (8-digit hydrologic units), and at a local scale, by sub watersheds (12-digit hydrologic units). Check out the GRTS Map Viewer at: <http://iaspub.epa.gov/grts/map>.

Study Reveals Widespread Contamination of Fish in U.S. Lakes and Reservoirs

A new EPA study shows concentrations of toxic chemicals in fish tissue from lakes and reservoirs in nearly all 50 U.S. states. For the first time, EPA is able to estimate the percentage of lakes and reservoirs nationwide that have fish containing potentially harmful levels of chemicals such as mercury and PCBs.

“These results reinforce Administrator Jackson’s strong call for revitalized protection of our nation’s waterways and long-overdue action to protect the American people,” said Peter S. Silva, assistant administrator for EPA’s Office of Water. “EPA is aggressively tackling the issues the report highlights. Before the results were even finalized, the agency initiated efforts to further reduce toxic mercury pollution and strengthen enforcement of the Clean Water Act – all part of a renewed effort to protect the nation’s health and environment.”

The data showed mercury concentrations in game fish exceeding EPA’s recommended levels at 49

percent of lakes and reservoirs nationwide, and polychlorinated biphenyls (PCBs) in game fish at levels of potential concern at 17 percent of lakes and reservoirs. These findings are based on a comprehensive national study using more data on levels of contamination in fish tissue than any previous study. Burning fossil fuels, primarily coal, accounts for nearly half of mercury air emissions caused by human activity in the U.S., and those emissions are a significant contributor to mercury in water bodies. From 1990 through 2005, emissions of mercury into the air decreased by 58 percent. EPA is committed to developing a new rule to substantially reduce mercury emissions from power plants, and the Obama Administration is actively supporting a new international agreement that will reduce mercury emissions worldwide.

The study also confirms the widespread occurrence of PCBs and dioxins in fish, illustrating the need for federal, state and local government to continue efforts to reduce the presence of these harmful chemicals in our lakes and reservoirs and ensure that fish advisory information is readily available. It is important that women of child-bearing age and children continue to follow the advice of EPA and the Food and Drug Administration on fish consumption as it relates to mercury. This study is also a strong message to state and local governments to redouble their efforts in looking for opportunities to reduce mercury discharges, as well as developing fish advisories, especially to reach those in sensitive and vulnerable populations.

Results from the four-year National Study of Chemical Residues in Lake Fish Tissue show that mercury and PCBs are widely distributed in U.S. lakes and reservoirs. Mercury and PCBs were detected in all of the fish samples collected from the nationally representative sample of 500 lakes and reservoirs in the study. Because these findings apply to fish caught in lakes and reservoirs, it is particularly important for recreational and subsistence fishers to follow their state and local fish advisories.

EPA is conducting other statistically based national aquatic surveys that include assessment of fish contamination, such as the National Rivers and Streams Assessment and the National Coastal

Assessment. Sampling for the National Rivers and Streams Assessment is underway, and results from this two-year study are expected to be available in 2011. Collection of fish samples for the National Coastal Assessment will begin in 2010.

More information:
www.epa.gov/waterscience/fishstudy
More information on local fish advisories:
www.epa.gov/waterscience/fish/states.htm
~EPA Office of Water, Water Headlines.

MEETINGS!

International Catfish Symposium

June 20-22, 2010

St. Louis, Missouri

www.catfish2010.org

First Call for Papers Catfish 2010

You are invited to attend and participate in the 2nd International Catfish Symposium: Conservation, Ecology, and Management to be held June 20-22, 2010 in St. Louis, Missouri, along the banks of the mighty Mississippi. This is our first call for oral platform and poster presentations at the symposium, including those to be considered for publication within the resulting peer-reviewed proceedings. This meeting will provide a forum for the exchange of information about the biology, ecology, management and conservation of worldwide populations of both game and nongame catfish species. The theme for the 2nd International Symposium is the conservation, ecology and management of worldwide catfish populations and their habitats. Presentations on all aspects of catfish biology and ecology are welcome, and those focusing on conservation and management challenges are actively being sought. We encourage you to submit your research on the following topics: Evaluating sampling methods and their effectiveness; Population dynamics and community interactions; Life history investigations providing information on predation, competition, prey utilization, age and growth; Conservation efforts including species status and restoration efforts; Management strategies to enhance recreational fisheries including regulations, human dimensions and production. Individuals interested in developing topical review papers are encouraged to

contact the Program Committee Co-Chairs to assist with topic coordination. To submit a presentation and for the most up to date information on the symposium, visit the web site at www.catfish2010.org. Bookmark it now and return often for updates! Presentation abstracts and manuscript submission deadline is January 29, 2010. Don't miss being a part of this important gathering of scientists, educators, administrators, and the public interested in what the next decade will bring for catfish science. Contact: Tom Kwak at tkwak@ncsu.edu or Mark Porath at mark.porath@nebraska.gov if you have questions.

8th Biennial Conference on University Education in Natural Resources

March 25-27, 2010

Virginia Tech, Blacksburg, Virginia

SYMPOSIUM INFORMATION & CALL FOR PAPERS

www.cpe.vt.edu/cuenr/index.html

Virginia Tech will host the 8th Biennial Conference on University Education in Natural Resources in Blacksburg, Virginia, 25-27 March 2010. The conference is aimed at faculty and administrators interested in national trends in curricular issues and innovative teaching methods in natural resource fields. Graduate and undergraduate students, as well as agency and organizational partners who both receive and help design and conduct educational programs, are encouraged to attend. The conference typically blends plenary and breakout sessions devoted to issues surrounding and methods for engaging students in learning. Topics reflect the diverse subject areas, techniques, and perspectives of faculty and administrators across a broad spectrum of interests and responsibilities in natural resources education. While much of the focus is on strategies and practices associated with college and university classes, the conference will include techniques and programs associated with the full spectrum of extension and continuing education audiences, ranging from K-12 students and teachers to scientists

and professional resource managers. It will include practices used within universities to foster and reward good teaching and effective learning. Education in forestry and wildlife has been the traditional focus of the conference, but for this conference we are reaching out to particularly include all natural resource-related disciplines. Most participants come from the United States and Canada, but international guests are welcome. This conference will make a special effort to broaden its geographic scope and learn about trends and approaches shaping educational programs in other parts of the world.

The Wild Trout Symposium "Conserving Wild Trout"

September 28-30, 2010

Holiday Inn, West Yellowstone, MT

**First Call for Papers, Posters, and
Award Nominations**

Deadline April 1, 2010

www.wildtroutsymposium.com

The Wild Trout Symposium brings together a broad and diverse audience of governmental entities, non-profit conservation groups, media representatives, educators, anglers, fishing guides, and business interests associated with trout fisheries to exchange technical information and viewpoints on wild trout management and related public policy. Held every 3 years, each symposium has led to innovative wild trout management approaches. Wild Trout X offers a unique forum for professionals and anglers to interact, and where participants will be exposed to the latest wild trout science, technology and philosophies. This conference will equip participants to better manage, preserve, and restore these significant but declining resources. The symposium will focus on the needs of working-level wild trout professionals, conservationists, and trout anglers. The Wild Trout X Program Committee is soliciting abstracts for presentations and posters. Please send brief abstracts (300 words or less) to Committee Co-chairman, Kevin Meyer no later than April 1, 2010. Abstracts on all aspects of wild trout research, management, conservation, education, and recreation are welcome and will be considered. However, the following topics are of particular interest:

- Climate change and wild trout
- Whirling Disease 50 years later
- Resource extraction and wild trout resources
- The role of the Endangered Species Act in wild trout management
- Genetic considerations for managing wild trout
- Understanding interactions between wild trout and invasive species
- Sustaining interest in wild trout in our youth and urban citizens

Additional session topics will be added based on the papers that are submitted. Presentations will be accepted in oral or poster format, so please specify your preference and whether you would be willing to present in either format. Please note the authors who are selected for oral presentations at the symposium must submit a complete manuscript ready for Symposium Proceedings by August 31, 2010. Successful applicants will receive further information upon acceptance of their paper.

Abstract submission should be sent electronically to Kevin Meyer by April 1, 2010 using MS Word file format. Guidelines for abstract, poster, and manuscript preparation can be found at the web site. For additional information and inquiries, contact the Program Committee Co-chairs: Kevin Meyer; Idaho Department of Fish and Game; 208-465-8404; Email: kevin.meyer@idfg.idaho.gov and Doug Besler; North Carolina Wildlife Resources Commission; 828-659-3324; Email: doug.besler@ncwildlife.org.

Nominations are also invited for the **Aldo Starker Leopold Wild Trout Medal**. Two medals are conferred at each symposia in memory of this distinguished naturalist: one natural resource professional and one nonprofessional who, in the eyes of their peers, have made long-time and significant contributions to the enhancement, protection, and preservation of wild trout. Please send nomination letters and a brief rationale including complete recipient contact information no later than April 1, 2010 to Wild Trout X Awards Chairman: Jim Daley; New York Division of Fish, Wildlife & Marine Resources; 518-402-8959; Email: jgdaley@gw.dec.state.ny.us

STUDENT OPPORTUNITIES

W.F. Thompson Award for Best Student Paper Published in 2008

Nominations are open for the W.F. Thompson Award, which is given by the American Institute of Fishery Research Biologists (AIFRB) to recognize the “best” student paper in fisheries science published during the year in question. The award will consist of a check for \$1000. The requirements for eligibility are as follows: (1) the paper must be based on research performed while the student was a candidate for a Bachelor’s, Master’s, or Ph.D. degree at a college or university in the Western Hemisphere; (2) the paper must be in English; (3) the student must be the senior author of the paper. Nominations may be submitted by professors or other mentors, associates of the students, or by the students themselves. The deadline for receipt of nominations is January 31, 2010. The nominations should be sent to the Chairman of the W.F. Thompson Award Committee, Dr. G. Morris Southward, 4155 Sotol Drive, Las Cruces, NM 88011-7642. Each nomination must be accompanied by a copy of the paper (unless it is easily available on the internet) and a résumé. The papers will be judged, by knowledgeable reviewers selected by the Chairman and the members of the Committee, on the basis of contribution to fisheries science, originality, and presentation.

Hutton Junior Fisheries Biology Program

Deadline February 15, 2010

www.fisheries.org/afs/hutton.html

The Hutton Junior Fisheries Biology Program is summer mentoring program for high school students sponsored by the American Fisheries Society. The principal goal of the Hutton Program is to stimulate interest in careers in fisheries science and management among groups underrepresented in the fisheries professions, including minorities and women. Application to the program is open to all junior and senior high school students regardless of race, creed, or gender. The program seeks to increase diversity within the fisheries professions, and qualified women and minority applicants are strongly encouraged to apply. Students accepted into the program are matched with professional mentors and

enjoy a hands-on fisheries science experience in a marine and/or freshwater setting. Assignments are made with participating organizations within reasonable commuting distance from the students. During the summer, students work alongside their mentors, collecting samples and assisting with analyzing data. A scholarship is provided to students accepted into the program

Mentors:

Participating Organizations and Hosts

The program is open to mentors located at municipal, state, federal, provincial, university, private, and non-governmental facilities in all states, commonwealths, and territories of the United States, Canada, and Mexico. Mentor applicants must submit an application, including a current resume or CV and a one-page description of the type of assignment the student is expected to undertake with the host organization. Applications are available on the AFS website at www.fisheries.org.

GRANT OPPORTUNITIES!

National Fish and Wildlife Foundation Accepting Pre-proposals for Keystone Initiative Grants

Deadline: April 1 and September 1 annually

www.nfwf.org/Content/NavigationMenu/GrantPrograms/ProgramsOverview/Keystones/default.htm

Keystone Initiatives are a core portfolio of multi-year initiatives through which the Foundation and its partners seek to achieve measurable outcomes. Specific goals and strategies are identified for each Initiative. Outcomes are continuously evaluated and objectives refined as the Initiative evolves. Keystone Initiatives are selected by the Foundation's board of directors, based on recommendations from staff. Working with partners, Keystone staff develop business plans for each Initiative. Business Plans include logic frameworks that provide a visual representation of desired outcomes, primary threats, and strategies for each Initiative. Business Plans provide specific guidance on the types of projects that will be considered for funding by the Foundation to fulfill the objectives of specific Keystone Initiatives. It is expected that applicants interested in Foundation funding for Keystone Initiatives will review the Business Plans for the Keystone Initiative

of interest and prepare their application materials accordingly. Prospective applicants should contact the Keystone directors to discuss project ideas prior to submitting proposals to help ensure the relevance of funding requests. All applications submitted for funding through the Keystones should explicitly reference how proposed projects fit within Business Plans and logic frameworks, or why they do not. All applications will be considered through a competitive process. Keystone staff will continuously evaluate best practices and innovative solutions and work with grantees or groups of grantees to assure the collective results achieve the Foundation's and its partner's objectives in "moving the needle".

National Fish and Wildlife Foundation Guy Bradley Award

Deadline: December 15

www.nfwf.org/AM/Template.cfm?Section=Charter_Programs_List&Template=/CM/ContentDisplay.cfm&ContentID=11878

The National Fish and Wildlife Foundation established a national award in 1988 to recognize individuals for achievements in wildlife law enforcement, focusing especially on those activities which directly aid or advance the law enforcement goals and mission of state and federal fish and wildlife agencies. Each year, a number of awards are presented to worthy recipients by a variety of agencies and organizations. The Foundation's award, however, seeks to recognize extraordinary individuals who have made an outstanding lifetime contribution to wildlife law enforcement, wildlife forensics, or investigative techniques that warrant national recognition. **Criteria:** The Guy Bradley Award will be presented to those persons whose dedication and service to protecting the nation's natural resources demonstrate outstanding leadership, extended excellence, and a lifetime commitment to the field of wildlife law enforcement and whose actions advance the cause of wildlife conservation. This award is given in the spirit of Guy Bradley, the first wildlife law enforcement agent killed (1905) while performing his duties to protect the nation's wildlife. Wildlife officers, spread thinly over the entire United States, enforce the wildlife laws of this country in all weather conditions and are often alone, understaffed, and overworked. **Award:** Recipients will receive a check for \$1,000 and a commemorative

plaque. In the event that a recipient cannot accept a cash award (as is the case for federal employees), a donation of \$1,000 will be made in the recipient's name to the wildlife project(s) of his or her choice.

Wal-Mart Acres for America Grant Program

Deadline: April 1 and September 1 annually
www.nfwf.org/AM/Template.cfm?Section=Charter_Programs_List&TEMPLATE=/CM/ContentDisplay.cfm&CONTENTID=12269

Acres for America, a partnership between Wal-Mart Stores and the National Fish and Wildlife Foundation, provides funding for projects that conserve important habitat for fish, wildlife, and plants through acquisition of interest in real property. The goal of the Acres for America program is to offset the footprint of Wal-Mart's domestic facilities on at least an acre-by-acre basis through these acquisitions. Approximately \$2.5 million in total funding is available annually through 2014 for conservation investments. All grant awards require a minimum 1:1 match of cash or contributed goods and services. The program provides funding for projects that conserve large, landscape-level areas that are important habitat for fish, wildlife, and plants. Endorsement by appropriate federal, state, and local government agencies that the acquisition is of high conservation value is a primary consideration. Preference will be given to acquisitions that are part of published conservation plans, State Wildlife Action Plans, or Endangered Species Act Recovery Plans.

National Fish and Wildlife Foundation Accepting Pre-proposals for National Wildlife Refuge Friends Group Grant Program

Deadline: May and September 2010
www.nfwf.org/AM/Template.cfm?Section=Charter_Programs_List&TEMPLATE=/CM/HTMLDisplay.cfm&CONTENTID=13319

The National Fish and Wildlife Foundation, along with its partners, recognizes the important role refuge Friends organizations play in building critical community support for the U.S. Fish and Wildlife Service's National Wildlife Refuge System. As such,

we are requesting proposals for projects that assist organizations to be effective co-stewards of our Nation's important natural resources within the National Wildlife Refuge System. This program provides competitive seed grants (\$1,500 - \$5,000) to creative and innovative proposals that seek to increase the number and effectiveness of organizations interested in assisting the Refuge System nationwide.

Budweiser Conservationist of the Year

Deadline: August 26 annually
www.nfwf.org/AM/Template.cfm?Section=Charter_Programs_List&TEMPLATE=/CM/ContentDisplay.cfm&CONTENTID=13312

The Budweiser Conservationist of the Year selects a conservation organization to receive a \$50,000 grant from Budweiser and the Foundation. The three runners up each direct a \$5,000 grant to a conservation organization of their choice. The award recognizes individuals who have made significant volunteer contributions to the outdoors and conservation.

United States Golf Association Wildlife Links

Deadline: April 1 annually
www.nfwf.org/AM/Template.cfm?Section=Charter_Programs_List&TEMPLATE=/CM/HTMLDisplay.cfm&CONTENTID=12433

The purpose of the Wildlife Links program is to fund research, management, and education projects that will enhance wildlife management on golf courses on at least a state-wide, and preferably a region-wide or national basis. Funding is not available for habitat improvements on individual courses (butterfly gardens, nest box trails, etc.). Research projects must be applied in nature and hold the promise of practical outcomes that will benefit wildlife conservation through golf course design and management. Applicants should clearly demonstrate communication with appropriate representatives within the golf industry to ensure the practicality of proposed projects. Letters of support from superintendents at golf courses where research is being considered will be required. Native pollinators, aquatic invertebrates, reptiles and amphibians, birds,

and small mammals are all priorities for Wildlife Links. Preference will be given to projects that:

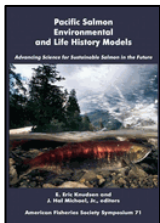
- Build upon previous Wildlife Links grants.
- Support State Comprehensive Wildlife Conservation Strategies.
- Complement other ongoing conservation programs, such as Partners in Flight, Partners for Amphibian and Reptile Conservation, etc.
- Enhance recovery efforts for declining species
- Help keep common species common.
- Examine course management and design options for increasing biodiversity.
- Determine the roles of habitat characteristics in the designation of golf courses as wildlife corridors or barriers.
- Study the impact of golf course maintenance activities on wildlife.

Grant Size: Not to exceed \$30,000 annually; funds may be requested for up to two years (\$60,000 total). Funding for Wildlife Links may be either private from USGA or federal from NFWF, or some combination of both.

New Books!

Visit: www.afsbooks.org

Pacific Salmon Environmental and Life History Models: Advancing Science for Sustainable Salmon in the Future

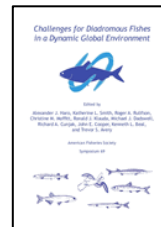


E.E. Knudsen and J.H. Michael, Jr., editors; 464 pages; Publication date: August 2009; Price: \$69.

Many Pacific salmon and anadromous trout populations are in chronic decline. An important aspect of salmon management is an understanding of the factors that drive salmon population production and the ability to predict run sizes. Advanced simulation methods are needed for better describing and understanding the complex interactions between salmonids and their environment and improved decision-making about the effects of human activities on their productivity. This book presents recent progress in modeling tools that have practical application for estimating full production capacity, determining appropriate harvest levels, and providing information essential for habitat remediation.

Challenges for Diadromous Fishes in a Dynamic Global Environment

A. Haro, K.L. Smith, R.A. Rulifson, C.M. Moffitt, R.J. Klauda, M.J. Dadswell, R.A. Cunjak, J.E. Cooper, K.L. Beal, and T.S. Avery, editors; 943 pages; Symposium 69; Publication date: August 2009; Price: \$69.



Based on a 2007 international symposium, this book reviews the biology, ecology, human importance, and management and conservation of diadromous fishes with the goal of providing innovative interpretations and opportunities for sustainability. Because diadromous fishes use different environments and migration corridors to complete their life history in ocean and freshwater environments, they are particularly vulnerable to direct and indirect consequences of human development and global climate change. Also presents new ecological and evolutionary concepts and experimental and modeling tools that advance understanding of the significance and the resilience of the diadromy life history strategies within ecosystems. Considers creative approaches for habitat protection and restoration to sustain stocks in the future.

Standard Methods for Sampling North American Freshwater Fishes

S.A. Bonar, W.A. Hubert, and D.W. Willis, editors; 335 pages; Publication date: August 2009; Price: \$60.



This reference book provides standard sampling methods recommended by the American Fisheries Society for assessing and monitoring freshwater fish populations in North America. Methods apply to ponds, reservoirs, natural lakes, and streams and rivers containing cold and warmwater fishes. Range-wide and eco-regional averages for indices of abundance, population structure, and condition for individual species are supplied to facilitate comparisons of standard data among populations. Provides information on converting nonstandard to standard data, statistical and database procedures for analyzing and storing standard data, and methods to prevent transfer of invasive species while sampling.

Notes From the Editors...

We would like to thank members who contributed to this newsletter. We strongly encourage every member to contribute to the newsletter. We appreciate all articles, photos and input! This is a great opportunity to let the rest of the chapter know about the work that you are doing.

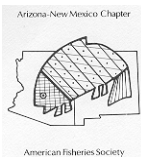
The theme of the spring newsletter is **Hatchery Research and Management**. The deadline for submissions is **February 10, 2010**. *Articles* should be approximately 250 words long. We would love to see any *photos* of fish, or of you working! Also, this is a great place to post *job and volunteer listings* and other *announcements*.

~Your editors

Anne Kretschmann
kretschmann.anne@gmail.com



Bill Stewart
BStewart@azgfd.gov



Anne Kretschmann
Primary Newsletter Editor
AFS AZ/NM Chapter
kretschmann.anne@gmail.com

AFS Arizona-New Mexico Chapter Officers

President	Stephanie Coleman U.S. Forest Service Zone Fisheries Biologist Alpine/Clifton Ranger Districts Apache-Sitgreaves National Forest Alpine Road P.O. Box 469 Alpine, AZ 85920 smcoleman@fs.fed.us (928) 339-5079
President-Elect	Julie Carter AZ Game and Fish Department Nongame Branch: Native Trout 5000 W. Carefree Highway Phoenix, AZ 85086 (623) 236-7576 jcarter@azgfd.gov
Past President	Marianne Cox AZ Game and Fish Department Fisheries Branch Fisheries Management Supervisor 5000 W. Carefree Highway Phoenix, AZ 85086 (623) 236-7672 mcox@azgfd.gov
Secretary/Treasurer	Matt Rinker mrinker@azgfd.gov
Membership	Jeremy Voeltz Jeremy_Voeltz@fws.gov
Newsletter Editor	Anne Kretschmann/ Bill Stewart
Environmental Affairs	Jason Kline
Program Committee	Stephanie Coleman
Nominations/Awards	Amy Unthank
Continuing Education	Yvette Paroz
Student Affairs	Heidi Blasius
Bylaws	Colleen Caldwell
Fundraising/Raffle	Vacant

Webpage

If you have any comments about the webpage or have items you would like to see on the webpage, please contact Jodi Whittier at: whittier@ksu.edu

Visit our webpage at: www.aznmfishsoup.org

Student Sub-unit Contact Information

Jamie Evans, past-president ASU, jamie.evans@asu.edu
Lisa Trestik, U of A, Lisat@email.arizona.edu
Matt Zeigler, NMSU, zeiglerm@nmsu.edu