

Hutton Junior Fisheries Biology Program

Class of
2015



Hutton Junior Fisheries Biology Program

Overview

The Hutton Junior Fisheries Biology Program is a paid summer internship and mentoring program for high schools students, which is sponsored by the American Fisheries Society (AFS).

The program was created by the American Fisheries Society in 2001. From 2001— 2015, the program awards \$3,000 scholarships to outstanding high school students through a competitive selection process.

Accepted students known as “Hutton Scholars,” are matched and mentored by a fisheries professional to enjoy a hands-on fisheries science experience in a marine and/or freshwater setting. Hutton Scholars who successfully complete the program receive a \$4,000 scholarship.

Mission: To Increase diversity within the Fisheries Profession

Vision: To stimulate interest in careers in Fisheries science and management among groups underrepresented in the fisheries professions, including minorities & women.

Generous contributions from organizations enable AFS to continue the Hut-

Hutton J.F.B Program Scholarship Recipients: 2001 — 2015

Total scholarships awarded: #572

⇒ Minority male & female recipients: #309 (56%)

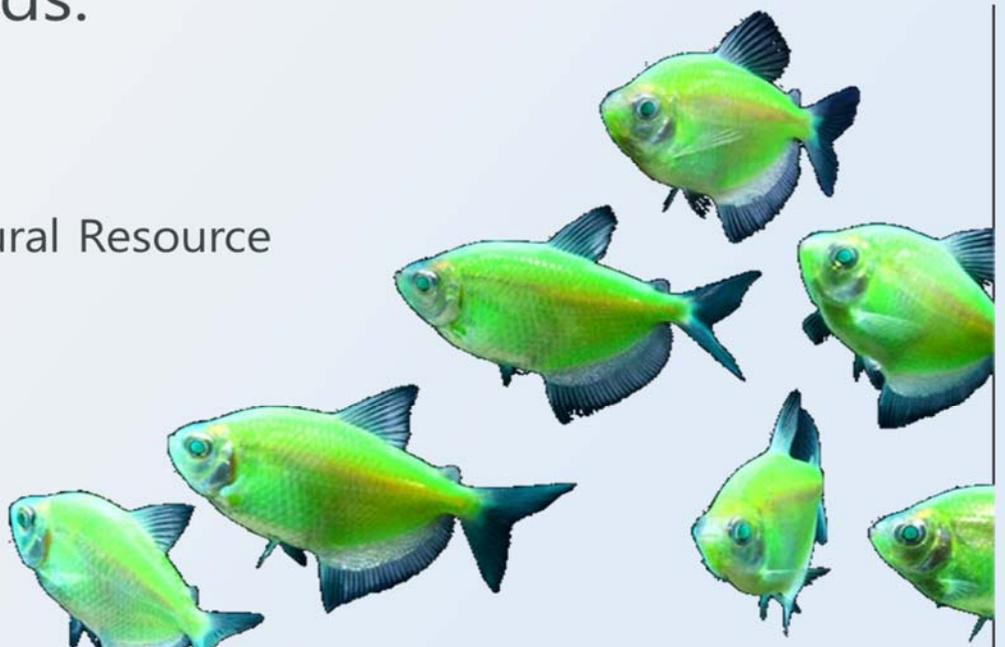
⇒ Female recipients: #334 (58%)

The Need for Diversity in Fisheries

- ▲ Representative demographics ensure survival of the profession and the natural resources it protects
- ▲ Diversity presents a variety of ideas, experiences & perceptions that result in increased creativity, innovation as well as more effective solutions

“Lack of diversity, particularly of ethnic groups, is **significant** among students and professionals in the natural resource fields.”

- Coalition of Natural Resource Societies



2015 Hutton J.F.B Program

The Hutton Junior Fisheries Biology Program has completed another successful year. Your generous contribution helped AFS provide scholarships to 33 high school students and introduce them to the important and exciting world of fisheries.

Our supporters ensure the future of fisheries by achieving the following:

- ▲ Invest in a new generation of fisheries scientists
- ▲ Help diversify the fisheries profession by engaging minorities and women
- ▲ Promote organizational values and objectives
- ▲ Gain recognition for having a positive impact on young people

To show our appreciation of your support, AFS would like to introduce you to the Hutton J.F.B program class of 2015!

▲ 2015 Hutton Scholars Demographics:

- ❖ Minority students: 18 (54.5%)
 - Minority Females: 11 (33.3%)
 - Minority Males: 7 (21.2%)
- ❖ Non-minority students: 15 (45.5%)
 - Non-minority females: 13 (39.4%)
 - Non- minority males: 2 (6.1%)
- ❖ Females: 24 (72.7%)
- ❖ Males: 9 (27.3%)

A dark blue chalkboard background with faint white sketches of scientific and mathematical symbols. In the top left, there is a drawing of a telescope and a globe. In the bottom left, there is a drawing of a human arm. In the bottom center, there is a drawing of a book. In the bottom right, there are drawings of a percentage sign, a plus sign, and a minus sign.

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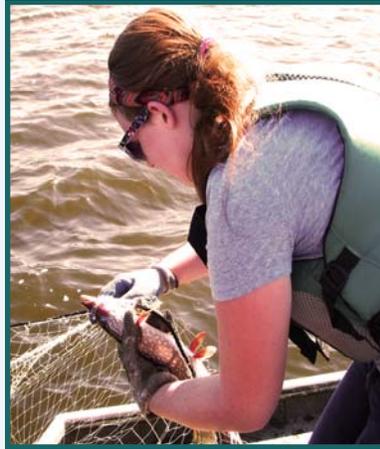
Meet your 2015 Hutton Scholars



Bridger Banco

Grade: 11th

Location: Milwaukee, WI.
Wisconsin Lutheran College



Danielle Barnes

Grade: 11th

Location: St. Paul, MN.
University of Minnesota Department
of Fisheries, Wildlife and Conserva-
tion Biology



Maya Bhadkamkar

Grade: 11th

Location: Milwaukee, WI.
U. S. Forest Service &
Discovery World

"Each day I am enriched by the plethora of knowledge given to me by my mentor and professionals in the field. To be given the opportunity to work with these successful people is truly incredible. I was anticipating to be assigned only one station with one project throughout the summer. However, I was pleasantly surprised when I learned I was to assist multiple different biologists in several different projects throughout the area." - Danielle Barnes



Richard Cain

Grade: 11th

Location: Milwaukee, WI.
Bureau of Land Management
(BLM) Redding Field Office



Alberta, Abby, Clough

Grade: 12th

Location: Coos Bay, OR
Bureau of Land Management
(BLM)



Samantha Delaney

Grade: 12th

Location: Gloucester, MA
NOAA/ National Marine Fish-

Meet your 2015 Hutton Scholars



Shreeya Desai

Grade: 11th

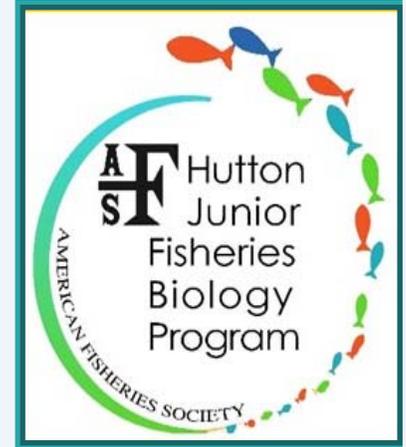
Location: Cape Coral, FL
Coastal Watershed Institute



Hayley Ehrlich

Grade: 11th

Location: Middletown, NJ
NOAA/ National Marine Fisheries Service (NMFS)



Benjamin Ferreri

Grade: 11th

Location: Cape Girardeau, MO
Missouri Department of Conservation

"I can undoubtedly say that the Hutton Junior Fisheries Biology Program has so far been successful. While I spend a majority of my time here sitting at a lab bench analyzing videos of lionfish and lobsters, my mentor has helped me understand the impact that her work, and my assistance has in a grander sense." - Leilani Ganser



Darby Finnegan

Grade: 11th

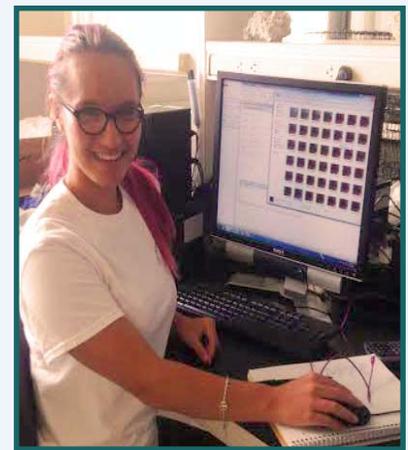
Location: Grangeville, ID
Nez Perce Tribe



Myles Fowler

Grade: 11th

Location: Redding, Ca
Bureau of Land Management (BLM) Redding Field Office



Leilani Ganser

Grade: 12th

Location: Marietta, GA
University of Miami, School of Marine and Atmospheric Science

Meet your 2015 Hutton Scholars



Yvette Garcia

Grade: 11th

Location: Marietta, GA
Bureau of Land Management



Nora Hargett

Grade: 11th

Location: Columbia, MO
U.S Geological Survey



Kadie Heinle

Grade: 12th

Location: Hathaway, MT
Bureau of Land Management
Miles City Field Office

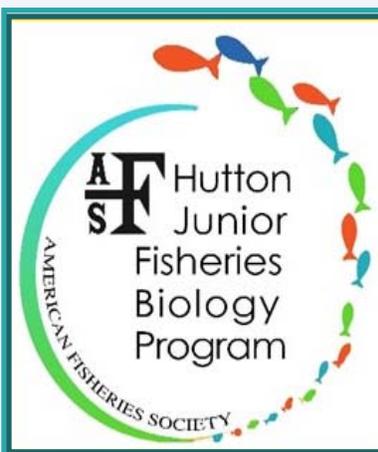
"The very first day of my internship my mentor and coworkers revealed such incredible passion for their jobs that I was stunned. To witness individuals not only caring about their job, but enjoying it gave me so much hope." - Abbey Knight



Thomas Janetos

Grade: 12th

Location: Plantation, FL
Department of Biological Sciences in Florida Atlantic University



Jason Jaworski

Grade: 11th

Location: North Liberty, IN
City of Elkhart Office of Public Works



Abbey Knight

Grade: 11th

Location: North Bend, OR
Bureau of Land Management (BLM)

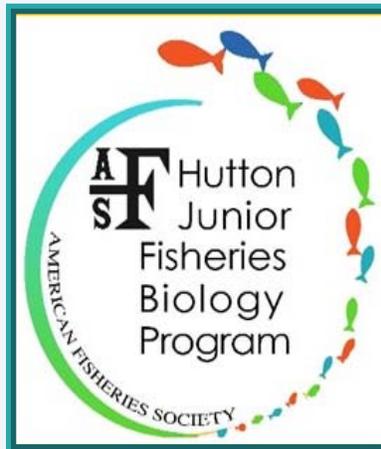
Meet your 2015 Hutton Scholars



Helen Krueger

Grade: 11th

Location: Spokane, WA
Spokane Tribe of Indians



Daniel Lagmay

Grade: 12th

Location: Culdesac, ID
Nez Perce Tribe



Aspyn Lysiak

Grade: 12th

Location: Eugene, OR
Bureau of Land Management
(BLM) Eugene District

"I have learned so much in the world of fisheries and expanding my vernacular. I have already learned more than I could have hoped and am extremely thankful for the opportunity to learn so much." - Garrett Woodcock



Chelsea Pohrman

Grade: 12th

Location: Springfield, OR
Bureau of Land Management
(BLM) Eugene District



Emily Russell

Grade: 11th

Location: Springfield, OR
Bureau of Land Management
(BLM) Eugene District



Garrett Woodcock

Grade: 11th

Location: Creswell, OR
Bureau of Land Management
(BLM), Eugene District

Meet your 2015 Hutton Scholars



Charlee Manguso

Grade: 11th

Location: Parshall, CO
Bureau of Land Management



Jordyn Matherly

Grade: 11th

Location: Springdale, WA
Spokane Tribe of Indians



Wyatt Thurman

Grade: 11th

Location: Reardan, WA
Spokane Tribe of Indians

"I appreciate the American Fisheries Society for letting me participate in your program it's an honor to be a part of. This opportunity opened a lot of doors for me for my future and it's helping me succeed in life. I'm having a blast with my mentor and supervisors they've taught very well and made me strive for more opportunities working with the Kelt project and with the Pacific Lamprey "ell" their very different from one another have to remind myself that everyday." - Mariah Penney



Harini Pasupuleti

Grade: 11th

Location: Eagan, MN
Minnesota Department of Natural Resources



Mariah Penney

Grade: 12th

Location: Lapwai, ID
Nez Perce Tribe



Asia Weakus

Grade: 12th

Location: Lapwai, ID
Nez Perce Tribe

Meet your 2015 Hutton Scholars

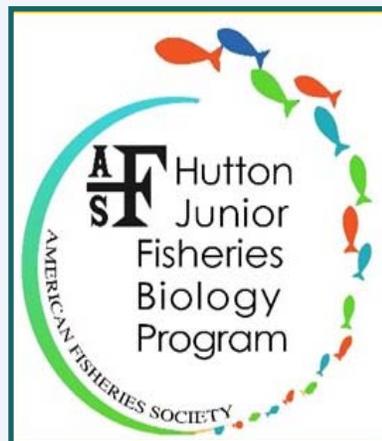
"The AFS, Hutton Junior Fisheries Biology Program has introduced me to so many great experiences. I have the opportunity to work with great mentors that have pursued a degree in Biology, a degree I am striving for. My mentors have provided me with excellent information and hands-on experience." - Liana Wheeler



Liana Wheeler

Grade: 12th

Location: Lapwai, ID
Nez Perce Tribe



Riley Rettig

Grade: 11th

Location: South Lake Tahoe, CA
US Forest Service, Lake Tahoe Basin Management Unit



Dionna Walker

Grade: 12th

Location: Daphne, AL
U.S. Fish and Wildlife Service at
Alabama Ecological Services Field
Office

"It has exceeded my expectations by giving me much more travel experience than I expected. I went on two four day long trips to do field work last month and I am going on another one that is two days long and another four day one soon after that. It has been valuable to me because I have gotten hands on experience with so many different biologists both in and outside fisheries science. I have also gotten a lot of experience with electrofishing which is a cool skill. I have just done so much in such a short amount of time it's awesome!" - Dionna Walker

Meet your 2015 Hutton Mentors

▲ Robert C. Anderson, PhD

Professor of Biology, Asst. Dean of Faculty Dev.
Wisconsin Lutheran College

▲ Loren Miller

Research Scientist, MN Dept. Natural Resources. As-
sociate Professor Dept. Fisheries, Wildlife & Conser-
vation Biology



*“Our 2015 Hutton Scholar has exceeded all of my expecta-
tions and has proven to be a fantastic intern. Our scholar has
shown incredible attention to detail, is eager to learn and
take on more responsibilities, and has out-performed previous
interns with her high work rate.”*

- Dominique Lazarre

▲ Gary Diridoni

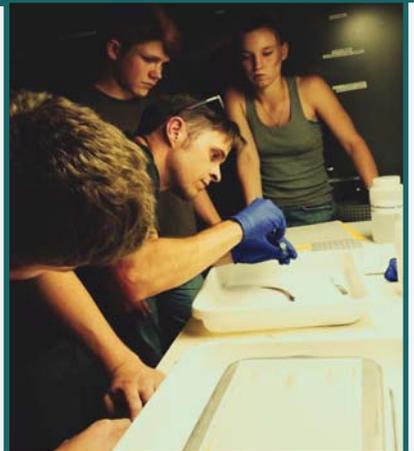
Redding BLM Wildlife and Fisheries Biologist
California BLM Fisheries Program Lead

▲ Stephanie Messerle

District Fish Biologist
Coos Bay District, Bureau of Land Management

▲ Jeffery Jackson

Assistant Wildlife Biologist
Oregon Dept. of Fish & Wildlife



▲ Karla Cottom

Oregon Dept. of Fish & Wildlife

▲ Dr. Earl Meredith

NOAA Fisheries

▲ Matthew Poach

NOAA /NMFS

Meet your 2015 Hutton Mentors



🚤 **Michael L. Parson**

Department of Marine and Ecological Sciences
Director, Coastal Watershed Institute. Florida Gulf Coast
University

🚤 **Quinton Phelps**

Missouri Department of Conservation

🚤 **Daragh Deegan**

Aquatic Biologist. City of Elkhart

🚤 **Michael Bisbee Jr.**

Nez Perce Tribe
Department of Fisheries Resources Management

🚤 **Paula Belcher**

Hydrologist, BLM Kremmling Field Office



“Our Hutton Scholar is simply outstanding! She has developed her own research project to determine if nonnative crayfish outcompete native crayfish. In addition to this research, she is working with other faculty to learn more about contemporary issues in fisheries and aquatic ecology. She is also interested in animal behavior so she is spending two days in the field with a deer biologist study behavior of does and fawns.”
- Craig Paukert

🚤 **Dr. Brent Nichols**

Spokane Tribe of Indians
Department of Natural Resources

🚤 **Elliott Kittel**

Fisheries Biologist II. Spokane Tribe of Indians
Department of Natural Resources

🚤 **Alix Blake**

Fisheries Biologist I. Spokane Tribe of Indians. Department of Natural Resources



Meet your 2015 Hutton Mentors

▲ **Maura Santora**
Aquatic Biologist
U.S Forest Service . Lake Tahoe Basin Management Unit

▲ **Jennifer Pritchett**
Fish and Wildlife Biologist
U.S. Fish and Wildlife Service. Alabama Ecological Services
Field Office



“Our Hutton Scholar has been working great in a team, being a productive team member, which is a great skill to have in the fisheries profession. Our Scholar shows great interest in learning everything about what I do here at the BLM as a fish biologist and asks a lot of questions about different projects I have going on.”
- Christina Stuart

▲ **Brittnee Shows**
Wildlife Biologist
U.S Forest Service

▲ **John D. Baldwin, Ph.D.**
Florida Atlantic University- Department of Biological Sciences

▲ **Daryl Ellison**
Minnesota DNR



▲ **Brett Blundon**
Fish Biologist
Eugene BLM District

▲ **Dominique Lazarre**
University of Miami- School of Marine and Atmospheric
Science

Meet your 2015 Hutton Mentors



▲ Jeff Powell

Deputy Field Supervisor

U.S. Fish and Wildlife Service. Alabama Ecological Services Field Office

▲ Anthony "Andy" Ford

Fish Biologist

U.S. Fish and Wildlife Service. Alabama Ecological Services Field Office

▲ Craig Paukert

Leader and Associate Professor

USGS Missouri Cooperative Fish and Wildlife Research Unit. Department of Fisheries and Wildlife Sciences

▲ Christina Stuart

Fish Biologist, BLM -Miles City Field Office



"Our Scholar, is PHENOMENAL and participating at a level above expectation. She has no fear and are willing to jump right in to any situation, learn and assist with the program needs."
- Brent Nichols, Elliot Kittel and Alix Blake

▲ Sandi Schreib

Grant Writer
Discovery World

▲ Education staff in camps, aquarists in the Reiman Aquarium, boat crew on sails at Discovery World

▲ Kate Wicks

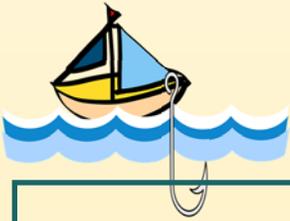
Education Officer of S/V Denis Sullivan
Discovery World



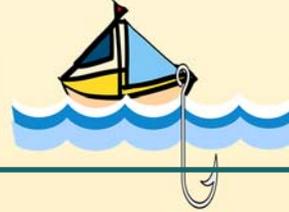
2015 Hutton Scholars



What were they up to?



Stream sampling & Seining



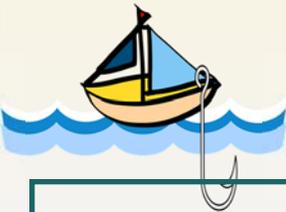
*Electrofishing & Ecosystem
restoration*



Fish tagging & tracking



*Public education
& Angler surveys*



*Laboratory analyses of fish
to determine age and growth*



Reports and Research

2015 Hutton Scholar's Final Report

My Hutton Scholar experience was diverse and exciting. My eight week internship was split into three parts: the S/V Denis Sullivan, the Ottawa National Forest, and Discovery World Summer Camps.

Before working on the S/V Denis Sullivan I had zero knowledge of sailing, knots, halyards, coils, or flaking. By the end of the two weeks I felt like I was part of the crew. The crew was kind and patient as they taught the art of sailing a ship. I learned how to set sail and which lines controlled which sails. I even got to be the “runner”, the person who lets the ship leave the dock by letting go of the docking lines. During my first week on the Denis Sullivan we had a group of sixth through eighth graders who were there to learn about what it takes to be a crew member. We also taught them about invasive species, water quality testing, boat watches, plankton, and sail theory. The next week we took a trip to Port Washington to do public day sails. This was a wonderful experience, because the public was thrilled to have the ship visit Port Washington and they had great questions about the boat. During this week I was able to help set and take down sails, as well as, answer many of the questions the passengers had. The best part of the Port Washington trip was that I spent four nights on the boat, which included sleeping in a bunk bed the size of a coffin. My experience on the S/V Denis Sullivan was one I will never forget because of the kind and good-humored crew.



The second part of my internship was spent on the Ottawa National Forest where I worked with a fisheries biologist, fisheries technician, invasive plant technician, and a hydrologist. Electrofishing with the fisheries technicians was the first of my Ottawa adventures. After sending an electric current through the water the surrounding fish would go belly up and rise to the top of the water, where I was waiting to scoop them into my net. After wading through the river for 500 yards we measured the length of each fish. This type of survey is important to determine the age, species, and amount of fish in a given stream. The data can be compared to past years to see trends in the fish population and as an indicator of water quality.



My second day on the Ottawa was spent cutting/chopping/pulling out invasive honey suckle. Although this was a day of pulling weeds, it was still interesting because I got to use a GPS to locate the invasive, and became an expert at identifying native and invasive honeysuckle. The next day I did a stream survey with the fisheries technicians. The stream survey involved taking a tape measure and walking down the stream, taking pictures of beaver dams, measuring the width of the stream at different points, and looking at the bottom composition. This was the day I became one with the fish and fell into the stream, making it my most eventful day on the Ottawa.

During my final week on the Ottawa I did macroinvertebrate collecting, road condition surveying, and loon surveying. During macroinvertebrate collection I learned about how macroinvertebrates affect water quality. If many sensitive species, such as, mayflies and caddisflies are present that means the water quality of the stream is good or excellent. However, if only tolerant species can be found the water quality is probably very poor. During the loon survey I got to spend the day on five different lakes counting the number of adult and infant loons. Loon population surveys are an important part of monitoring trends in the loons and making sure there are no dra-

The final segment of my time as Hutton Scholar was with the summer camps at Discovery World. This was a enjoyable four weeks because I had the opportunity to work with children going into 3rd through 5th grade, as well as, spend a week working in the aquarium. In the aquarium I prepared food for the fish, mix salt into water to create the right salinity for the fish, and test the pH, temperature, and salinity for all the tanks. It was also nice to



be working in the camps with children who were learning about fish and marine biology. I helped teach them about things I had been learning about this summer: invasive species, water quality, and macroinvertebrates. During many of the camps we took the children fishing for round goby and to the Milwaukee River to collect macroinvertebrates. In one camp I assisted the kids as they dissected fish and crabs. We also taught the kids about dichotomous keys and fish adaptations. Overall my time at Discovery World was chance to share what I had learned over the summer with younger children and learn more from the knowledgeable staff.

Because of the variety in my Hutton experience I had a couple of mentors. My main mentor was Brittnee Shows, who transported me to the Ottawa and answered all my questions while I was working with the Forest Service. Brittnee Shows was an amazing mentor who taught me about different careers within the Forest Service, as well as, how the service is structured. Brittnee was kind, warm, and easy to talk. Whenever I had a question or needed assistance Brittnee was available. While at Discovery World I worked with several different teachers who were all kind, accommodating, and passionate about their work. On the S/V Denis Sullivan Katelyn Wicks guided me and introduced me to crew members who taught me more about the ship and sailing. Katelyn was the educator on the ship and answered my questions and concerns. I am not sure if I will be keeping in touch with my mentors.

I would recommend this programs to my friends especially if they are interested in the environment, biology, fish, or just science in general. I would not suggest this program to people who do not like spending time outside. I thought it was especially great that I got to experience a variety of disciplines. I saw both the scientific and educational side of fisheries and different career options. I spent my summer outside in nature doing activities I have never done before and gained knowledge at the same time. I do not have any criticism or suggestions for the program

I will be a senior during the upcoming school year and plan to take AP Chemistry. In the future I would like to attend college somewhere in the midwest. I hope to go to the University of Wisconsin Madison or the University of Minnesota Twin Cities. Because of my involvement in Hutton Scholars I've decided that I would like to major in something in the environment. Because I also have interest in math I think environmental engineering would be a good fit for me. Hutton Scholars has increased my interest in the environment because I saw first hand how water, soil, and air are all interrelated and how the quality of each resource is important to the health and sustainability of fish, animals, and humans. In the Ottawa I went to an artesian well that was leaking sediment into a river and I got to see how scientists approached problems, shared ideas, and worked together. I now understand the importance of water quality testing, and surveying different fish species and birds.

All in all, being a Hutton Scholar was the best way I could have spent my summer. My favorite part about the program was that I did three very different activities, and I was never doing the same activities for more than two weeks. Because of the diversity in my experience I felt I gained more knowledge than I could have in the places for all eight weeks. All the people I worked with were friendly, kind, and knowledgeable. My summer as a 2015 Hutton Scholar is one I will never forget.



By: Maya Bhadkamkar

Featured Research Project

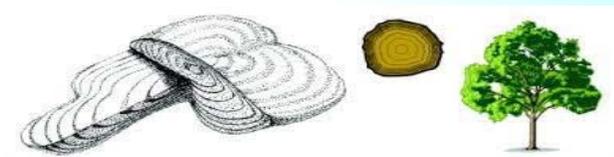
Age and Growth

By: Samantha Delaney (Mentor: Dr. Earl Meredith NMFS Cooperative Research) AFS Hutton Scholar
Northeast Fisheries Science Center/ Greater Atlantic Region August 2015

The age and growth of fishes are important because it provides an integrated assessment of environmental and endogenous conditions affecting fish. Although there are several methods for aging fish, the most common method is examining the hard parts of the fish. The hard parts of the fish that are used include scales, otoliths, fin spines, fin rays, cleithra, vertebrae, opercular bones, and dentary bones. For my age and growth lab, I examined fish otoliths, hard, calcium carbonate structures located directly next to the brain of bony fishes.

Otoliths can be obtained by making cuts to the top of the fish's head or by going through the gills of the fish. For commercial fisheries, port samplers go to fish auctions and take otoliths from the different kinds of fish available. Since these fish are going to be sold, most samplers collect otoliths by making incisions through the gills because this does not damage the fish as severely as making incisions through the head of the fish. Otoliths are normally collected from a sample of at least one hundred fish. Once otoliths are collected they are put in small coin envelopes that are marked with the type of fish, boat that caught the fish, sex, and length in centimeters. Once the otoliths have dried for a few days, they are shipped to labs to be examined.

Fun Fact: Sexual maturity varies greatly in fish. Some fish like lake sturgeon can take up 25 years to mature while it only take some fish a few months to reach their adult size.



Once the otoliths arrive at the lab, their nuclei are labeled with a pencil and they are lined up on a tray. After the tray is completely full, an epoxy gel is poured over the tray of otoliths. Once the gel dries, the otoliths can then be cut. They are cut into thin slices that are then attached to a microscope slide.

After this step, the otoliths can now be observed under a microscope for counting annuli.

Otoliths continue to build up a calcium coating as the fish continues to age. Annuli show the increments of growth which changes speed with the seasons. Otoliths have alternating hyaline and opaque bands. Hyaline bands represent periods of active growth and opaque bands represent periods of slow growth. Fast growth tends to occur in the spring and summer while slow growth tends to occur in the fall and winter. One hyaline and adjacent opaque band compose one year of growth. The age of the fish is determined by counting the opaque bands under a microscope. All fish are given the birthday of January 1 to approximate the age of the

Why do we age fish? With all the data collected from aging fish, we can see trends over time. It takes years of data to see these trends. Regulations can then be made that tell fisherman of what size fish they can catch. Ideally, we want fishermen to catch fish that have reached sexual maturity and have spawned at least once if not multiple times to replace the fish population that is being caught.



BLM employs local Hutton fisheries scholarship recipient

Mark E. Jacobsen, Public Affairs Specialist, Eastern Montana/Dakotas District

MILES CITY, Mont. – The BLM Miles City fisheries program in eastern Montana got some help this summer with the placement of a Hutton Program scholar, a volunteer field position funded by the American Fisheries Society.

Kadie Heinle, 2015 graduate of Custer County District High School and who has an interest in marine biology, was one of about 25 students selected from around the nation.

“The Hutton Program is for high school students interested in getting into the fisheries field,” said BLM Fish Biologist Christina Stuart. “It’s a great program and an honor for the student to be selected by AFS for this.”

According to the AFS, “the principle goal of the Hutton Program is to stimulate interest in pursuing fisheries science and aquatic resources management careers among high school students from groups

underrepresented in the fisheries professions including minorities and women.” Application is open to 11th and 12th grade students with preference to qualified women and minority applicants.

The AFS provides most everything for the student, including liability coverage. The student also gets a \$3,000 scholarship. Hutton Scholars are required to work with a professional fish biologist for at least 40 hours per week for eight weeks, said Stuart.

According to Hutton Program specifics, the scholars are matched with a fisheries professional for “an exciting, hands-on summer internship in a marine or freshwater setting.”

“All parties benefit from the Hutton Program. The student receives a scholarship, a mentor, and beneficial field experience and the agency gets a volunteer which is invaluable help in completing the summer workload.” said Stuart. “Kadie is a remarkable person; I really enjoyed mentoring her and was grateful to have the extra help.”

A fisheries biologist serves as a program mentor and an application must be made by an agency professional on the receiving end. Once the mentor application is approved, the process moves forward and a Hutton Scholar can be placed.



Kadie Heinle, 2015 graduate from Custer County District High School and a Hutton Program Scholar, worked this summer with the BLM Miles City Field Office performing fisheries work on BLM waterways in eastern Montana. Her field position was paid for by the Ameri-

This summer has been a busy one for both Stuart and Heinle. Prairie stream sampling, habitat monitoring, and data collection on BLM waterways have kept them active afield. At the end of the season, Heinle departs to the University of Montana in Missoula.

“Participating in the Hutton Program was a great experience. I was able to try out a lot of different equipment throughout the varying jobs we did. I learned so much in just two months,” said Heinle. I would definitely recommend

this program to other high school students interested in fisheries because it’s awesome to gain this much real-world experience, all before you’ve even started your first day of college.”

Wendy Warren, BLM Assistant Field Manager for Renewable Resources in Miles City also found the program to be an asset to the BLM’s mission.

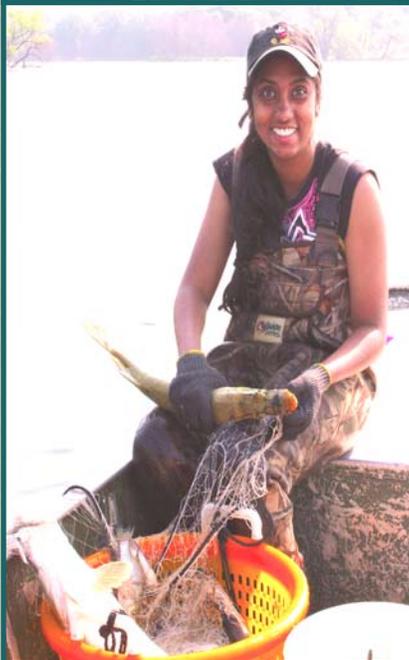
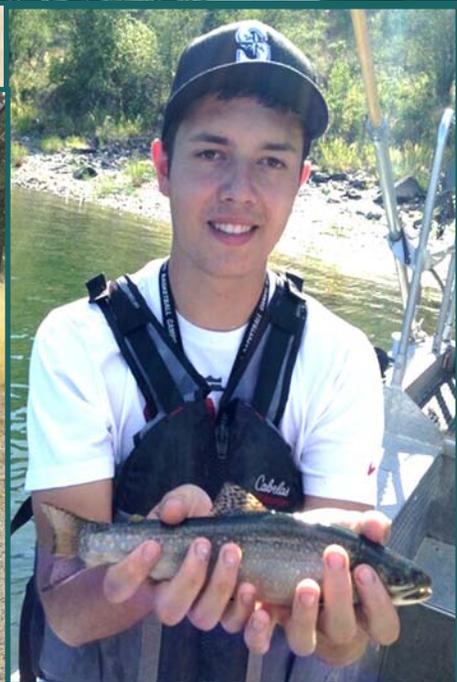
“This is the first year that the Miles City Field Office has participated in the Hutton Program,” said Warren. “I was very honored and excited that Kadie and the BLM’s application were matched for this summer.”

“The success of this program relies on the workload and the dedication to get it accomplished. I am pleased with the results and I’m proud to have had such an incredible person work with,” said Warren.

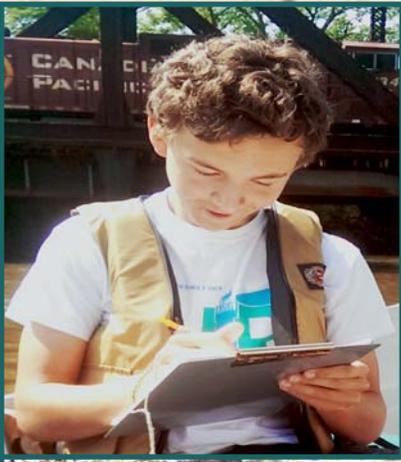
The Robert F. Hutton Endowment Fund was created in 2000 to receive contributions to support the program. The

fund’s namesake, the late Dr. Robert F. Hutton, served as the American Fisheries Society’s first Executive Director from 1965 to 1972 and the society President from 1976 to 1977.

My Big Catch!



Out in the Field



GET

1. Be A Mentor
2. Be a Host Organization
3. Be a Hutton Alumni Ambassador
4. Be a Mentor Champion
5. Be a Hutton Hero (Partners)

Learn about resources and opportunities

@ <http://hutton.fisheries.org>



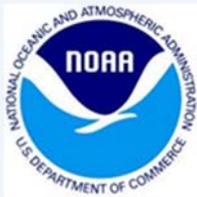
2015 HUTTON SUPPORTERS

Titanium \$100,000 plus



Bureau of Land Management (BLM)

Platinum \$50,000 - \$99,999



National Oceanic and Atmospheric Administration (NOAA)



U.S Forest Service (USFS)

Bronze \$5,000 - \$9,999



AFS Education Section



Wisconsin DNR

Thank You!

Hutton Junior Fisheries Biology Program

The Hutton Effect

2001—2015

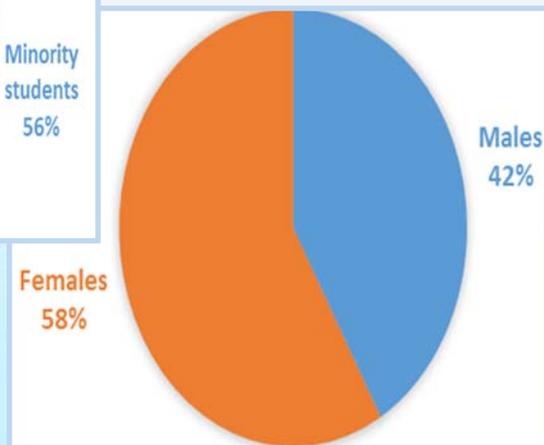
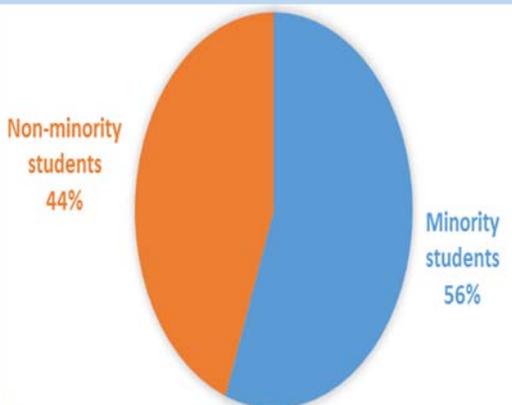


Mission: To Increase DIVERSITY within the Fisheries Profession

Vision: To stimulate interest in careers in Fisheries science and management among groups underrepresented in the fisheries professions, including minorities & women



WHO



DID YOU KNOW ?

- #572** HUTTON ALUMNI
- #137** SPONSORS & HOST INSTITUTIONS
- #270** MENTORS
- #309** MINORITY SCHOLARS

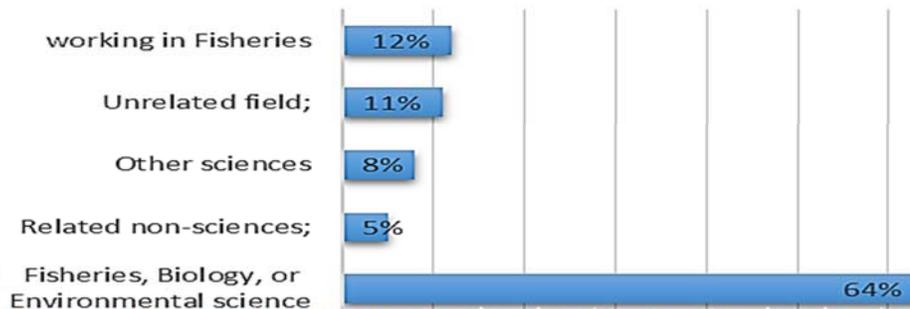
RESULTS



JOB

HUTTON JUNIOR FISHERIES BIOLOGY PROGRAM Fields of Study for Hutton Alumni in Degree Programs

Source: 2001-2011 Annual Hutton Alumni Survey



SUSTAINABILITY



VALUE

Be part of the **HUTTON EFFECT** to **Engage, Inspire & Enrich** next generation Fisheries professionals.

Learn about resources and opportunities to be a **Mentor**, prospective **Hutton Scholar** and **Hutton Parent Hero**

@ <http://hutton.fisheries.org>

Your **FUTURE**

AMERICAN FISHERIES SOCIETY

Your **LEGACY**

2015 Hutton Junior Fisheries Biology Program



Thank You!

For more information and resources
Contact **Cynthia Oboh**, Educational Program
Coordinator, @ coboh@fisheries.org
(301) 897-8616 ext.: 225

To apply online visit
<http://hutton.fisheries.org/>



ASF American Fisheries Society