# **Swallow Tales**



## The Alewives are Coming, the Alewives are Coming! Bucky Owen

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It's true; after being absent for more than 150 years alewives will be heading up Pushaw Stream next spring. Until now, pollution and dams have blocked this small river herring's ability to reach its ancestral breeding areas throughout the Penobscot drainage. With the advent of the Clean Water Act and removal of the lower main stem dams on the Penobscot, all that has changed.

A new fishway has been built in the outlet dam of Pushaw Lake and 45,000 adult alewives



Alewives at Damariscotta Mills by Pete Stetson

were put into Pushaw Lake over the past two years to facilitate this restoration. In 5-10 years, 1.5 million alewives will pass through Hirundo, passing by the 7,000 years old native American fishing village site, on their way to Pushaw and Little Pushaw Lakes and Perch Pond.

Alewives were a mainstay for coastal Mainers in colonial times. Now they are sought after for lobster bait and are providing an income for towns where runs have been restored. Everyone loves to eat alewives: otter, mink, ospreys, eagles, herons, bass, pickerel, gulls and, yes, even pike, gorge on the adults and young.

Adults ascend the rivers in May, spawning in the lakes shortly thereafter and return to the ocean. The eggs hatch quickly and the young return to the ocean in August-October when 3-4 inches in size. They will return as adults 2-3 years later and the cycle continues. So let's hear it for the alewife; certainly one of the most exciting developments in our rivers in decades!



Herring gull with alewife by Robert F. Bukaty

# Megan Dood- Summer Intern

Special points of interest:

- Seeking paddlers for Community
  Paddle and Cookout - call 944-9259 for more info
- Quarterly newsletter published spring, summer, fall and winter



the swallows, and determine the ideal nest box placement at Hirundo. I carefully open each of the boxes count the number of eggs, or hatchlings in the nest. Most of the boxes are used by Tree Swallows, but this year one nest box is occupied by a Black-capped Chickadee.

Periodical checks do not cause nest abandonment, as long as visits are properly spaced. Some females only leave the box when you open the door. When this happens it usually ends in the bird dive-bombing you with her silent graceful swoops as you're trying to peer into the box.

This year 24 out of 50 nest boxes are occupied with 93 total nestlings. During the first check on May 19th, we found 20 nests with a

range of 0 to 6 eggs. Now, in late June, the tree swallow nests have 4 to 6 fledglings, while the chickadee nest had all 7 of their eggs hatch. Fledging is now underway.

I am a Wildlife ecology major with an interest in raccoons, and a new found appreciation for

birds. One of my tasks is check all the nest box in the refuge. Our goal is to establish the success of

#### Hirundo Summer Newsletter

# The adventures of Alex and Nick:

Who we are —My brother Nick, 10, and I, 13, have always been interested in wildlife. We love learning about the environment, how animals interact, and the ecosystem. We have been participated in many nature programs since we were young and have started volunteering in Acadia National Park and Hirundo Wildlife Refuge.

# The Science of SCAT Alex Baron



Scat is the scientific term for animal feces or poop, and it can found anywhere. There are two kinds of scat: herbivore scat and carnivore scat.

Herbivore scat is the scat of vegetation-eating animals, such as, deer or grouse. This kind of poop is more degradable and fibrous, still containing cellulose

and other plant material. Since some herbivores, such as rodents, rabbits, and hares (rabbits and hares are not rodents, as they are in the order *Lagomorpha*, not *Rodentia*), excrete digestible plant material in their scat, they re-

#### Aquatic Insects Nick Baron

Aquatic insects are insects that live in water, e.g., ponds, lakes, river and streams. Very few insects can survive the ocean because of the salt concentrations. Some, such as dragonflies, spend part of their life as aquatic insects and part as terrestrial insects. They emerge from the water, mate, and die. Other aquatic insects spend their entire life, including mating, in water. These are called



true aquatic insects. While non-true aquatic insects in the larval stage breathe through gills, all true aquatic insects breathe air. consume it to get as much nutriment as they can.

Carnivore scat is the scat of meat-eating animals, such as, foxes, coyotes, otters, or weasels. The scat of meat-eaters is more compact and connected, because of

the indigestible matter interlaced in it. Carnivores do not re-digest their poop because it contains few nutrients and also because when digested the first time, a meat meal provides a lot more. energy than consuming vegetation.



Otter scat

For example, water scorpions, a true aquatic insect, breathe air by using a long tube that sticks through the water surface to reach air. The air is then carried down a tube that branches out to connect to breathing organs, called spiracles, under the insect's abdomen. Some insects that breathe through gills simply suck water up into the gill chamber in the abdomen, and the water rushes through the gills and is squirted back out. These gillbreathing aquatic insects have their gills stored internally, which they can use to propel themselves forward by jet propulsion. Other gill-breathing aquatic insects breathe from fan-like gills, stored externally. They sway the gills through the water to absorb oxygen. And if the insects beat their gills very rapidly, they can propel themselves forward. So both types of gills help aquatic insects survive – to escape predators and capture prey.

# Volunteers — Thank you!



Cardinal flower— a Native

Dick Andren Seanna Annis Raanan Avargil Larry Beauregard Angie Bennett Lois Berg Stack Finn Bondeson Melanie Blumentritt Margo Boyd Lisa Carter Stephen Coghlan Andrew Corson Sandy Daniels Ellie Durso Steve Dunn Jo Eaton

John Ferland Jimmy Haller Alyx Hannigan Karl Hill Jeremiah Hobbs Brenda Jackson Glen Koehler Clay Kirby Gerry Lapointe Stephanie Larouche Phil Lock Jerry Longcore Paul Markson Rad Mayfield Bucky Owen

Patti Ferguson

Nathan Parkhill Steve Sader **Rori Saunders** Linsday Seward Bob Steven Gloria Vollmers Diane White Peter White Jim Young Yang Yu Steven Madera & participants of the Life Jackets program Sigma Phi Epsilon Fraternity Art Education Students Delta Phi Epsilon Sorority Gamma Sigma Sigma National Service Sorority UMaine Chapter of The Wildlife Society UMaine Freshman Volunteers UMaine Bodwell Center UMaine Alternative Spring Break Group UMaine – Main Bound We apologize should your name be missing.

# **Quarterly Recap & News**

Hirundo's caretaker and volunteers have been busy this spring sprucing up the road and the trails. Thank you!

Take a walk on the upgraded Vernal Pool trail, made possible by the participants of Lifejacket Program of Dover-Croft.

Local and not so local businesses supported Hirundo through in-kind and monetary donations. We would like to thank:

• Jason Folsom of O.J. Folsom in Old Town for donating gravel so we could expand the parking area at Gate 1

• Dana Smith of Yardsmith in Orono, who helped upgrade the dirt road leading to the NEW bridge spanning Lac D'or Stream

- · Viking Lumber for providing structural support to the new bridge
- · Orono-Old Town Kiwanis Club for School and Public Program support

# **Upcoming Programs**

**PROGRAM** DATE PRESENTER TIME 2:00PM Hirundo Staff **Guided Canoe Tour** 6.30.13 2:00PM Hirundo Staff **Guided Canoe Tour** 7.7.13 1:00PM 7.13.13 UMaine Bound **Canoe Skill Clinic** 7.14.13 2:00PM Hirundo Staff Paddle half-way to the Pole Hirundo Staff **Guided Canoe Tour** 7.21.13 2:00PM 7:00PM Hirundo Staff 7.21.13 Full Moon Paddle 7.27.13 1:00PM Karen Francoeur Kayak Rescue Clinic 2:00PM Hirundo Staff 7.28.13 Search for Moss Animal by Canoe 2:00PM Hirundo Staff **Guided Canoe Tour** 8.4.13 2:00PM Hirundo Staff Aquatic Insect Safari by Canoe 8.11.13 10AM - 4PMYOU FAMILY DAY 8.18.13 Full Moon Paddle 8.23.13 6:45PM Hirundo Volunteer 2:00PM Moss Animal Survey by Canoe 8.25.13 Hirundo Staff 2:00PM Hirundo Staff **Guided Canoe Tour** 9.1.13 9.8.13 2:00PM Hirundo Volunteer **Grandparents** Paddle 9.15.13 2:00PM Hirundo Staff **Guided Canoe Tour** Hirundo Staff Full Moon Paddle 9.19.13 6:15PM 2:00PM **Equinox Paddle** 9.22.13 Hirundo Staff

# Le pro-



#### "In the end we will conserve only what we love, we will love only what we understand, and we will understand only what we are taught."

-Baba Dioum Senegalese conservationist

# YOUR SUPPORT

Hirundo Wildlife Refuge is a private, non-profit organization that depends on public donations and volunteers to run our programs.

We receive our funding from grants and donations for the preservation of wildlife and forest management and are not supported financially by the University of Maine, or any other institution. Your support of Hirundo is greatly appreciated. Thank you!

Please make your tax deductible donation on-line <u>www.hirundomaine.org/support</u> or mail a check to:

Hirundo Wildlife Refuge P.O. Box 266 Orono, Me 04473



SMILE – a message sponsored by Hirundo Wildlife

### Hirundo Wildlife Refuge

Office: P.O. Box 266 Orono, ME 04473 Refuge: 15 Hudson Road, Old Town, ME 04468 Phone: 207-944-9259, Naturalist 207-951-3061, Care Taker E-mail: web@hirundomaine.org



We're on the Web!

Visits us on www.hirundomaine.org and join us on Facebook ! The mission of the Hirundo Wildlife Trust is to maintain the Hirundo Wildlife Refuge as a sanctuary to preserve and protect wildlife and their habitats. Consistent with this primary purpose, the Trust makes the Refuge available as a living laboratory for education and research, and to promote the public's appreciation of Nature.

Oliver Larouche, founded Hirundo in 1965. Today the Refuge protects 2400 acres of diverse habitat. We offer seven-miles of hiking trails, including self-guided educational trails, canoes, paddles, life vests and a dock to access Pushaw and Dead Streams. Archaeological digs in 1970 discovered remnants of a 7,000 year old fishing village, placing Hirundo on the National Register of Historic Places.

Many people enjoy our public programs and local schools use Hirundo as a living laboratory.

Hirundo Wildlife Refuge serves the Greater Bangor area. Our visitors come from Old Town, Hudson, Bangor, Hawaii and as far as Europe.

We are happy to answer any questions you might have:

Gudrun Keszöcze, Naturalist: 207-944 -9259 Fred Bryant, Caretaker: 207-951-3061

# YES, I WANT TO VOLUNTEER!

#### We welcome your skill and interest.

#### **BOARD OF TRUSTEES**

- Dick Andren, Vice Chair
- Brenda Jackson
- Dienua jackson
- Dianne Kopec
- June Larouche
- Roxane Larouche
- Stephanie Larouche, Chair
- Veronica Larouche
- Bucky Owen
- Gloria Vollmers, Treasurer
- Rad Mayfield, III

#### **Outdoor Volunteer Activities**

- Trail maintenance
- Removing non-native invasive species
- Lead walks, present a program
- Public Outreach
- Fauna & Flora inventories
- Photography

#### **Indoor Volunteer Activities**

- Administrative and technical help
- Publicity
- Coordinate Volunteers
- Fundraising
- Outreach



#### Question of the Quarter:

How many beaver lodges are along Pushaw Stream? How many of them are active?

# Send your answer by August 15 to either

- web@hirundomaine.org
- Hirundo Wildlife Refuge P.O. Box 266, Orono, ME 04473

Winner will receive a Swallow Bird Nesting Box during Family Day, August 18.