

© CHRIS MARTIN



Wildlines

FALL 2007

New Hampshire Fish and Game's quarterly newsletter of the Nongame and Endangered Wildlife Program

Challenging Year for Piping Plovers

Weather and human disturbance take their toll

2007 was almost a repeat of the 2006 breeding season for piping plovers. This spring, three pairs of piping plovers returned to New Hampshire's seacoast – the same number of pairs as last year. One pair nested at Seabrook Town Beach, and once again two pairs nested at Hampton Beach State Park, just as they did a year ago. Also similar to last year, spring storms had a big impact on plover productivity and resulted in at least three nests being lost.

The pair that nested at Seabrook Town Beach made it through the severe spring storms. They nested in a sandy patch up high in the dune, which may have helped to protect them from high tides and blowing sand. However at day 28, just when the eggs should have been hatching, both parents abandoned the nest.

“There were a number of people walking through the dunes, which disturbed the birds,” said piping plover monitor Samantha Niziolek. Although the breeding area was roped off and signs were posted indicating plovers were nesting, these were ineffective at preventing people from walking through the plover nesting area.

PLOVERS continued on back page



© USFWS / GENE NEMMEN PHOTO



© 2007

New Hampshire Fish and Game Department

Donald S. Clarke
Acting Executive Director

Wildlines

John Kanter, Nongame and Endangered Wildlife Program Coordinator

Allison Briggaman, Writer
Victor Young, Graphic Design
Jane Vachon, Copy Editor
Rita Boisvert, Data Manager



603-271-2461
www.WildNH.com



Wildlines is funded in part through the sale of Conservation License Plates.
www.mooseplate.com

Terns – and their Extended Family – Keep Growing!



A combination of good weather, improved habitat conditions and low predation contributed to a successful breeding season for state-endangered common and Arctic terns, as well as federally and state-endangered Roseate terns nesting at the Isles of Shoals in 2007.

Biologists and Mother Nature helped to create more habitat for breeding terns at the Isles of Shoals for this year. Last fall, biologists performed a burn to control the vegetation growth on Seavey Island and open up more space for the terns to nest and lay their eggs. Early this spring, a severe storm struck the New Hampshire coast and brought 31-foot waves crashing over

Arctic tern

TERNs continued on page 4

© USFWS / TIM BOYMAN PHOTO

New Protection for Reptiles and Amphibians

New regulations went into effect in summer 2007 that will protect more of the state's reptiles and amphibians. Prior to this summer, only three of New Hampshire's native amphibians and reptiles were protected through the N.H. Endangered Species Conservation Act, and four species of turtles were protected by other rules preventing possession, importation or sale by individuals in New Hampshire. The remaining species of amphibians and reptiles had no protection at all.

"Reptiles and amphibians are of global conservation concern," said Mike Marchand, a biologist for the Nongame and Endangered Wildlife Program. "These species face a number of threats, including loss of habitat, contamination, disease and climate change. Other threats such as unsustainable use (collection of wildlife for commercial or personal use) can be significant, especially within local wildlife populations."

The new rules for reptiles and amphibians are similar to those already in place for other native wildlife, including all birds and mammals. Additional species were added to the "no possession allowed" category, based on threat assessments done as part of the N.H. Wildlife Action Plan. For species that are currently considered more common, possession limits were set to allow for some legal take of reptiles and amphibians for personal use, but to eliminate any commercial collection and sale of native New Hampshire wildlife. The new laws also prevent the take or disturbance of painted, musk and snapping turtles during the nesting season (May 15 - July 15) when female turtles are extremely vulnerable.



Blue spotted salamanders (above) and northern leopard frogs (left) are two of the species now protected under the new reptile and amphibian protection rules.





For the complete listing of the new rules and regulations pertaining to reptiles and amphibians in New Hampshire, visit the Fish and Game website at www.WildNH.com and go to the reptile and amphibian page.

SUPPORT THE NONGAME AND ENDANGERED WILDLIFE PROGRAM



Please count on me to help protect nongame wildlife! Enclosed is my gift of:

\$35 \$50 \$100 \$250 \$500 \$1,000 Other \$ _____

Charge to:   Signature _____

Card Number _____ Exp. Date _____

Name _____

Please check here if you wish to remain anonymous.

Address _____

City _____ State _____ Zip _____

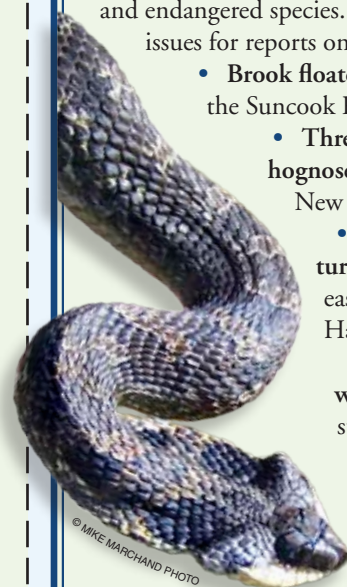
Mail to: Nongame Program, NHF&G, 11 Hazen Drive, Concord, NH 03301

All gifts are tax-deductible. Please make checks payable to NHF&G/Nongame Program

Stay Tuned.....

Nongame Biologists are doing more exciting work throughout New Hampshire on nongame, threatened and endangered species. Watch future issues for reports on:

- Brook floater mussels in the Suncook River;
- Threatened hognose snakes in New Boston;
- Blanding's turtles in south-eastern New Hampshire and;
- Round whitefish surveys on Newfound Lake.



© MIKE MARCHAND PHOTO

Bald Eagles a Step Closer to Recovery

Removed from federal threatened and endangered species status

On June 28, 2007, bald eagles were officially removed from the U.S. Fish & Wildlife Service list of threatened and endangered species. After almost becoming extinct throughout the U.S., eagles have made a tremendous comeback across the country. Their recovery and survival is in large part the result of protecting habitat and banning the use of the pesticide DDT.

Although bald eagles have been removed from the federal threatened and endangered species list, they are still listed as endangered in New Hampshire and protected under state laws. In 2007, New Hampshire had 14 pairs of bald eagles, 11 of which laid eggs. Eight of these pairs were

successful in raising a total of 12 bald eagle chicks this year.

Chris Martin, a senior conservation biologist with N.H. Audubon who works under contract with N.H. Fish and Game, reported that the number of nesting pairs was the highest it has been in 20 years in New Hampshire. However, the number of chicks produced was down from last year.

Nevertheless, biologists are considering downlisting bald eagles from endangered to threatened in New Hampshire. Endangered is the most severe listing status – if action is not taken the species will likely go extinct. Threatened is not as crucial – but protection is still necessary for species to reach full recovery. Bald eagles also continue to be protected under the federal Migratory Bird Treaty Act and the Bald and Golden Eagle Protection Act.



© JUDY LOMBARDO PHOTO

Karner Blue Butterfly Recovery Continues

New study shows Karners produce more eggs when fed wild plants versus greenhouse plants



© NHEG, VICTOR YOUNG PHOTO

The Karner blue butterfly captive rearing program continued again in 2007, and the restoration effort is progressing successfully. Some help from local Boy Scouts and a study comparing lupine plants and butterfly productivity were new and interesting happenings with the project this year.

According to Fish and Game biologist Lindsay Webb, who manages the Karner blue butterfly captive rearing facility, approximately 450 adult butterflies emerged this spring. From those butterflies, approximately 1,000 viable eggs hatched into a

second brood later in the summer.

The second brood of adults laid nearly 5,000 eggs – and the Boy Scouts and other volunteers were a tremendous help. “We had 16 volunteers in the laboratory at one time collecting eggs,” said Webb. “They collected 1,885 eggs in just three hours, which was great! It would have taken us all day to collect that many eggs without their help.”

A total of 895 adult butterflies were released into the wild this year – 195 from the first brood and 700 from the second. The butterflies are “definitely making it in the wild,” Webb said. Biologists continued to find Karner eggs, larvae and adult butterflies in the wild again this year, and there is evidence that they are expanding their range.

“We were seeing them consistently at the main site where Karners were historically known to occur,” said Webb. “That site is quite a distance from the location where the captive raised butterflies are released.”

New this year, Webb and lab assistant Morgan Eastman conducted a feeding study. The original idea was to look at how climate change might affect wild blue lupine

plants. The biologists used two sample groups – plants that were grown in direct sunlight where temperatures are high, versus those grown in the shade, where temperatures are cooler. They replicated these groups, with one set of plants grown in the wild and one set of plants grown in a greenhouse. The plants were fed to the Karner larvae and, once the adults hatched, females were put in separate tents to document how many eggs each produced.

“One interesting thing we found and the biggest difference – was not a difference between plants grown in sun or shade, but plants grown in the wild versus in a greenhouse,” Webb said. Karners that were fed lupine plants grown in the wild produced more eggs than those that were fed the greenhouse-grown plants. Biologists are not sure why wild food may have caused female Karners to produce more eggs, but one reason could be that the wild plants were older and more established, and the greenhouse plants were new this year. Regardless, once this was discovered, Webb and Eastman fed the Karners only plants from the wild for the remainder of the 2007 season.

Peregrine Population Continues to Rise

Birds return to historical locations and fledge more young

By Chris Martin, Senior Conservation Biologist,
N.H. Audubon

The 2007 peregrine falcon breeding season in New Hampshire was a record-setter in several respects. The state's peregrine breeding population continues to increase, with two more sites with a history of nesting activity (Peaked Mountain in Piermont and Ragged Mountain in Andover) newly occupied by pairs in 2007. Successful breeding for the first time was documented at Bear Mountain in Hebron. In 2007, New Hampshire had 18 territories occupied by at least one resident falcon, surpassing the previous post-DDT state record high

mark set in 2006, and 18 sites with territorial pairs also set a new record high. N.H. Audubon conducts this project under contract with the N.H. Fish and Game Department's Nongame and Endangered Wildlife Program.

The 12 successful nests documented in 2007 also set a new state high, surpassing the mark of 10 successful nests documented in 2000, 2001 and 2003. A total of 24 young fledged in 2007 (state record high is 27 fledglings in 2002), but 5 nest attempts failed and 5 additional nests produced only 1 fledgling this year, resulting in an average productivity of only 1.41 young fledged per active nest.

New Hampshire biologists and cooperators banded a total of 10 nestling peregrine falcons at 5 of the state's 12 productive falcon nests in 2007. Biologists were able

to confirm that 22 of the 36 adult peregrines in New Hampshire this year were banded, and they positively identified 5 of the birds. These included a male born in New Hampshire in 2000 that mated with a female from Massachusetts born in 2005; a female born in New Hampshire in 2002; and 2 females from Connecticut, one born in 1997 and one born in 2003.



© USFWS / STEVE MASLOWSKI PHOTO

TERNs continued from page 1

the island. The waves scoured the rocks, washing away sand, dirt and organic material, opening up even more rocky habitat for the terns to nest in. The combination was beneficial to the terns. The number of nests was up 22%, and the density of the population was down 17%, giving each pair more space between nests.

As for the staff living on the island and managing the tern colony this year, biologist Susie Burbidge returned for her second year, and Dan Hayward (a ten year veteran of the project) was joined by biologist/wife Melissa Hayward for her fifth year working on the tern project. And the terns

were not the only ones whose families were growing! Dan and Melissa learned they were expecting their first child only weeks before packing it up to move 10 miles off the mainland for the summer! "Things went really well," Melissa said. "Dan and Susie

were very helpful, and the weather did not complicate things. I made it to every doctor appointment," she said. For next year, Dan and Melissa plan to return in the summer with baby biologist in training!

Year-by-Year Comparison (Season Totals)

Number of Pairs	2002	2003	2004	2005	2006	2007
Common terns	1,687	2,414	2,582	2,478	2,463	2,539
Roseate terns	26	63	112	67	38	57
Arctic terns	1	6	7	9	8	6

SciGirls Discover Rare Dragonfly Species

Two new locations on Merrimack River

This summer a new program called “SciGirls” gave young women in New Hampshire an intriguing opportunity to learn about dragonflies along the Merrimack River. This unique partnership between Girls, Inc. and the Amoskeag Fishways in Manchester brought young girls and scientists together to learn about river ecology and dragonflies. With help from volunteers from the Merrimack River Paddlers Club, the girls also learned how to canoe and kayak.

Biologist Pam Hunt from N.H. Audubon surveys dragonfly populations in the state, working under contract for the N.H. Fish and Game Department’s Non-game and Endangered Wildlife Program. Hunt helped teach the girls about dragonflies in the spring and then helped them conduct their fieldwork throughout the summer.

Starting in July, they spent a few hours each week on the Merrimack River collecting exuviae – the exoskeletons of

dragonflies that are left behind after the insects have molted. Exuviae are easy to collect, and this evidence helps biologists determine what species of dragonflies are present on the river.

“The girls collected samples from three different sites with three different substrates along the river – natural banks made of dirt and roots, rough wall banks made of large blocks of stone and smooth banks such as concrete bridges,” Hunt said. “One of the things they will try to determine is if the different substrates make a difference in which species of dragonflies are found in certain sections of the river.”

The girls labeled the samples with the date and location where they were collected over the summer. Seasonal changes in species is another factor the girls will try to determine as they continue to analyze their



© BLAIR NIKULA PHOTO

Riverine clubtail dragonfly

data. This will help answer the question, “Are the species found in August different than the species that came out in July?”

Some “cool news” about the program, Hunt said, is that the girls found exuviae from riverine clubtail dragonflies. “Before this summer, the only known location on the Merrimack River for this species was in Concord,” said Hunt. “The girls documented two new sites on the Merrimack River where several exuviae were found, one in Hooksett and one in Manchester.”

According to Hunt, riverine dragonflies have not been well surveyed. “We didn’t even know riverine clubtails existed in New Hampshire until 2 years ago,” she said. As for the significance of the work the girls are doing, Hunt said, “They are helping us to learn about what species are present now, so we will have a reference in the future to be able to determine things such as the impact of shoreline development on riverine dragonfly species.”

Hunt and other organizers of the SciGirls Program hope to continue it in 2008 and possibly expand their field work to include parts of the Merrimack River below Manchester and Hooksett that have never been surveyed.

To learn more about the SciGirls program visit the PBS Kids website, “Dragonfly TV” at www.pbskids.org/dragonflytv. For more about Amoskeag Fishways and the programs they offer, visit www.amoskeagfishways.org or call 603-626-FISH.

Scarlet Bluet

Rare Damselfly Found at Five New Locations

With financial support from the Nongame and Endangered Wildlife Program, biologist Pam Hunt at N.H. Audubon was able to conduct the first-ever training seminars for volunteers to learn how to survey and identify dragonflies and damselflies.

After attending three training sessions, volunteers began their field surveys. “They targeted areas that were preselected – some of which were based on the N.H. Wildlife Action Plan,” Hunt said. Over the course of the summer, the volunteers documented five new locations where the rare scarlet bluet



© TOM D. SHULTZ PHOTO

Scarlet bluet damselfly

damselfly was found. The scarlet bluet only occurs in the Northeast and is typically found in acidic, sandy ponds with floating vegetation, often with water lilies.

Prior to this summer, there were only five locations in the entire state where this species was known to exist. Now, thanks to the help from volunteers, the number of documented locations for this rare species has doubled!



NONGAME AND ENDANGERED WILDLIFE PROGRAM

2007 Annual Fund Campaign

Roster of Donors

(4/1/2007 - 8/24/2007)

The 2007 annual fund was a great success! As we report in this fall issue of *Wildlines*, the variety of wildlife protection work going on in New Hampshire is tremendous. New research and continued monitoring and protection efforts are underway throughout the state to benefit nongame, threatened and endangered species in New Hampshire. This work is made possible because of the generous donations made by more than 1,000 compassionate people and organizations who understand the importance of wildlife to New Hampshire.

Since the Nongame Program was established, it has been an annual tradition to publish a list of donor names in our fall issue of the *Wildlines* newsletter. Over the years, the Nongame Program has been fortunate to grow and expand, not only the work we do, but the number of dedicated donors who

provide support. Because of this growth, after this issue, we will begin publishing our list of donors on our website instead of in the newsletter. This will allow us to keep you, our supporters, better informed about the breadth of work being done, while conserving on printing and mailing costs.

On behalf of everyone at N.H. Fish and Game, thank you for your continued support.

John J. Kanter
Nongame and Endangered Wildlife Program Coordinator

CHAMPION

Forrest Ames
The Honorable Senator
Harold Janeway
Mr. and Mrs. Harry V. Johnson
James T. Taylor

LEADER

Stephen B. Darr
Arlene Fox
Mr. Ross L. Heald
Robert F. Martin
Jane Rice
Mary P. Wright

PROTECTOR

Susan W. Almy
David Bergquist
Roger Bloomfield
Quintus Chess
Tom and Donna Cote
Mrs. James Ewing
Matthew R. Friel
Hubert Frings
Larry A. Hamer
Tom Head
Mr. Bruce Kirk
Mary H. Manita
Bill and Sandie Peabody
Mr. and Mrs. Henry H. Peterson

Louise C. Price
Nancy Rendall/Blue Moon
Environmental, Inc.
John G. and Nance F. Sanborn
Bruce and Sarah Schwaegler
Judith K. and Richard D.
Silverberg
Daniel R. Simmers
Dudley and Julie Smith
Steve Wheeler
Hancock Conservation
Commission
Anonymous (1)

STEWARD

Wm. T. Adam
Beverly S. Almgren
Jacques and Louise Aquillon
Winfield J. Bassage
Galen L. Beale/Riverland
P. N. Beauchesne
Barbara A. Beers
Jane C. Belanger
Louis J. and Lois G. Berry
John and Kathy Botty
James and Cindy Bronson
Stuart J. Bronson
Dennis and Susan Carlson
Col. and Mrs. John P.
Chandler

Major and Mrs. Henry A. Chary
Stephen Chase
William J. Chase
Cecily Clark
Steve Clark
Stacey W. Cole
Jim and Jackie Colthart
Buck and Martha Corson
Sean Croteau
John H. Cull, Jr.
Sally Daigneault
G. Nelson Degerberg
Dr. Samuel C. Doyle
Emily Drake
Frederick Ernst
The Fink Family
Natalie Ford
Elizabeth Forsham
M. J. Gerbauckas
DeirdreSheerr and Martin Gross
Bill and Pat Hamlin
Gene Harrington and
Judy Ratta Harrington
Linda Harrison
Mr. Kelly E. Haza
Eugene and Julia Hebert
Lloyd and Edna Heidgerd
David Heuss
John Hewitt
Harvey and Christina Hill

John and Jean Hoffman/
Seward Mountain Farm
Daniel Hughes
Dick and Karen Hughes
Mr. and Mrs. James E. Hunt
The Jiottis Family
Jack S. Jochums
Sheila and Joe Kabat
Elinor Kehas
Gay King
Robert E. Klotz, MD
Michael Strack and Mary
Leadbeater
Nancy K. Leitner
Sylvia Bates and Tom Masland
Allan and Carol Mc Causland
Paul A. McGuirk
Mr. and Mrs. Mark A. McPeck
Mr. Joseph Meli
Jack B. Middleton
Glen Miller
Ken Munney/US FWS
Mr. and Mrs. Paul Nickerson
Mr. and Mrs. Wayne Nicoll
Donald and Ruth
Normandeau
Gordon and Carolyn Page
Stephanie and Bill Parkinson
Barry Paterno
Larry Phipps

Roster of Donors

William and Shirley Preston
Joseph Prior
Jordan and Phyllis Prouty
Tom Quarles
Donald and Gloria Quigley
David R. Reilly
Tudor Richards
William and Marilyn Rix
Deborah A. Sabine
Frank and Shirley Sahl
Mr. and Mrs. Alan Sanders
Linda Schultz
Michelle and Darrell Scott
Robert Scott
Mr. and Mrs. Richard Seamans
Richard and Deborah Sheppard
John Sherman
Steven and Julie Shope
Mr. William O. Simpson
Ms. Deborah Sisson
The Honorable Rep. Carla Skinder
David Smith
Elizabeth Smith
Mr. and Mrs. Erville H. Smith
Vera F. Smith
Scott J. Spangenberg
Ellen Snyder and S. Srinivasan
Scott Soterion
Curtis H. Springer
Mr. and Mrs. Edward W. Spurr
Frank Stas
Judy Stokes
Mr. Clifford H. Straw
Henry and Freda Swan
Guy A. Swenson, Jr.
Dave and Tanya Tellman
Elizabeth Thomas
Linda A. Thomas
Brad Thompson
Frank and Pat Travis
Pauline E. Turner
Ruth A. Vaill
R. K. Warburton
Bill Humm and Barbara Wauchope
David and Jane White
Gayle Whittemore
Rich and Jan Woodbury
Susan H. Woodward

Appledore Real Estate, Inc.
Goffstown Fish and Game Association
Mast Way Elementary's 4th Graders
Anonymous (7)

GUARDIAN

Stephen and Carol Alden
Maureen Aube
Phil and Carolyn Auger
Raymond N. Avery
Wilton Avery
Mary C. Backus
James Ballard
Jane Barbieri
James Barrett
Ms. Elizabeth T. Bates
Jennifer Batt
Susan Bayer
Robert D. Jones and Margaret Beale
B. D. Becker
Bruce B. Beckley
Clay P. and Carolyn S. Bedford, Jr.
Eben Beever
Stephen Belcher
Albert H. Bergeron
Carolyn Bergkuist
Paul Bilodeau
Beth Bissonnette
Sidney E. Blanchard
Mr. John T. Bottomley
Sue Bowden
Mr. Zachary Boyajian
Daniel Brand
Susan Breu
John Wallace and Dr. Lessa Brill
Mary Anne Broshek
Wesley E. Brown
Sherry Bryant
L. Buckley
Jeff Bunnell
Hal J. Busch
H. Meade Cadot
Robert J. Campbell
Christopher Carr
Linda and Joseph Casazza
Eileen F. Chabot
Rita Chadwick

Craig R. Cheesman
Karen Chetty
Richard Choate
Lauraette H. Clark
Chris and Rosemary Conroy
Thomas and Nicole Cormen
Doug Cowie
Miss Irene Crosby
Lauren Cummings
Sarah R. Cummings
Sally B. Curran
Malcolm Currier
Herbert Damon
Tina Schirmer and Rick Davies
Mike De Petrillo
Cindy House and Eric Derleth
Elaine and James Di Stefano
Marcia Dimambro
Laurence Donoghue
David and Terri Donsker
Meryl B. Draper, Jr.
Dianne Durant
Christine Dwyer
Glenn and Lisa Eaton
Mr. and Mrs. Jan G. Edick
Jim and Lynn Edwards
Jane Ellingson
Cliff and Jean Ellston
Len and Diane Epstein
Pam Failing
Mr. Charles Faulkner
Eric Fiegenbaum
Mr. Stephen Gasiorowski
Nancy and Len Gerzon
Margaret L. Gillespie
Bruce and Jennifer Goodwin
Paul Graczyk
P. Graham
Catherine W. Gregg
Mr. Norbert Grohoski
Elliott & Jane Gruner
Sheila and Bill Guinther
James A. Guy
David and Michele Halsted
Dr. and Mrs. Fred Hatch
Peter Higbee
Donald B. Hinman
Ruth L. Howe
Robert C. Howland
Sterling Hudon

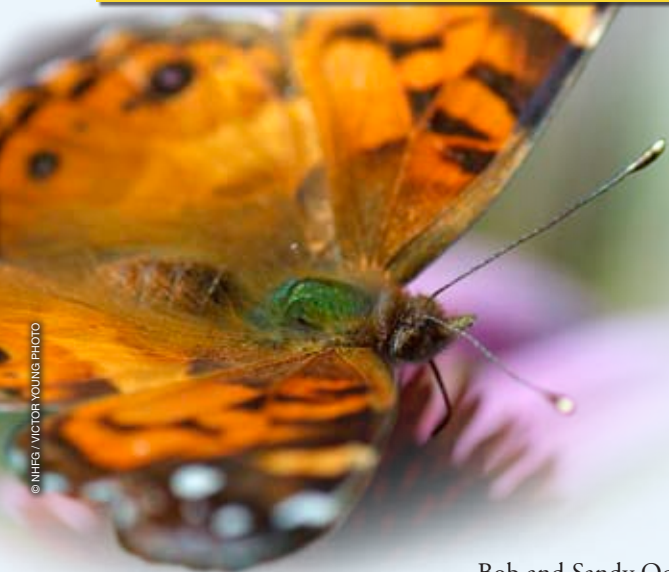


Belted kingfisher

Pamela D. Hunt
Kenneth A. and Barbara J. Hunter
Rick and Connie Hutchins
Edward E. Ikerd
Henry & Mary Irons
Ruth Tanner Isaks
Lauren Jacoby
William and Donna Jenisch
David Judge
Kathryn A. Kachavos
Mike Kaelin
Nan Kaplan
Mr. and Mrs. Joseph Keaton
Jim and Lynn Kegley
Mark King
Dr. Richard S. Kingston
Frank Kinslow
Walter S. Kleczkowski, Jr.
Diane M. Lander and Susan Knight
Judith A. Knight
Franklin C. Knowles
Mr. and Mrs. Charles E. Knox
Theodore Knupke
Greg and Tina Kriebel
Christine Labonte
George Lanouette
Karen P. Bennett and J. Andras Lazar
Ted and Beverly Leach



Roster of Donors



Painted lady

Bill and Linda Lee, Jr.
Reginald Lockwood
Mr. and Mrs. David C. Lord
Trudy, Nick and Nate Loy
John MacKenzie
David and Louise Malcolm
Dick Mallion
Michael J. Marquis
Donald M. Martin
Michael Martin
Mr. and Mrs. Eugene S. Martin/
Pretty Penney Farm
John A. McKenna
Chris McLaughlin
L. David Minsk
Charlie Moreno
Arthur and Mary C. Mudge
Mrs. Helga Mueller
Linda Mullestein
Peggy Mullin
John Murdough
Dennis Murphy
Donald and Ethel Murphy
Denise Naiva
Gloria J. Neary
Mike Nevelson
Stephen B. Nilsen
C. R. Nurse
Nelson O'Bryan
Linda A. O'Clair
Richard O'Connor
Thomas & Susan O'Connor

Bob and Sandy Odell
Mr. and Mrs. Robert M.
Olszewski
Alan S. Palmer
Deborah M. Parkin
Betsey Patten
Richard F. Peterson
Scott Piddington
Elaine and Steve Pike
Ms. Mary B. Platt
Gayle A. Plouffe/
aka Viola Swamp
Bruce Clendenning and Liza
Poinier
John L. Pokoski
Bruce H. Myrick and Suelaine
Poling
Thelma K. Pollard
Glen Poncet
Andrew W. and Jeanne S.
Powell
Philip Preston
Heather Pries
Kenneth Purington II
Roscoe and Patricia Putnam
Bob Quinn
Mr. and Mrs. Walter J.
Radermacher
Kurt Rhynhart
Eric A. Richard
Michael Thiel and Gail
Richard
Melinda Richmond
Beverly S. Ridgely
Mrs. Joan K. Rising

Helene Roberts
Janet and Gary Robertson
Mrs. Dorothy P. Robinson
Mr. and Mrs. Edward J.
Rutko, Jr.
Richard C. Ryan
Brandon J. Sanborn
Mark and Lynda Sanborn
Brenda D. Sens
Ray Sevigny
Patrick K. Seymour
William M. Shepard
Donald Sink
Richard D. Sizer
Ms. Pamela J. Skovira
Webb and Gert Sleeper
Barbara C. Smiles
Lenore R. Ekwurtzel and James
A. Smith
Mr. Donald Smith
Mr. Peter Smith
Joseph A. Smith, MD
M. Geoffrey Smith, MD
Alexander Snow
Randy Snyder
Julie A. Spencer
Robert D. Steele
Jerry and Diana Sterling
Richard S. Stevens
Bonnie Stinchfield
Cheryl A. Stockman
Mr. Oliver Stone
Mr. and Mrs. Walter Strauch
Jennifer Strubinger
Kate Hartnett and Racheal Stuart
Mr. and Mrs. Alanson H.
Sturgis, Jr.
Mr. Mitchell Sullivan
Christy Surette
Charles W. Swasey
Michelle Swisher
Joan Tambling
Mark R. and Allison J. Tanner
Anne and John Tappan
Mr. Richard V. Taylor
Roger and Jean Temple
Mr. Gerald Tercho
Tricia and Keith Thompson
Everett Thorne
Melbern and Virginia True
Edith and Dan Tucker/

Cold Brook Lodge
Phillip and Betsy Twombly
Sharon Vartanian
Ron and Ann Vinnacombe
Lowell and Kelly Von Ruden
Lois Walen
Mr. and Mrs. Warren F.
Walker, Jr.
Winnie Ward/Starr King
John Waterman
Norman L. Webber
Ken and Susan Weidman
James A. Welch
Peter and Gail Welch
The Honorable Rep. Ken
Weyler
Betsy Whitmore
Dr. Stefan Wittner
Mr. Jonathan P. Wottrich
Linda and Glen Wright
Mary Frances Wright
Robert C. Wyand, DVM/
Great Falls Veterinary
Hospital
Belknap County Sportsmen's
Association
Henniker Veterinary
Hospital, PA
Major Waldron Sportsmens
Raymond Sportsman's Club
Seven C's, Inc.
Tall Timber Lodge
Anonymous (24)

SUSTAINER

Judith Abernethy
Thomas and Karen Alden
Sarah Allen
Edith B. Allison
Gary and Denise Ambelas
Brewster and Elizabeth Ames
Donald and Sarah Anderson
Louise A. Anderson
Jeff and Gloria Andrews
John & Donna Anthony
Widge Arms
Michael Ferber & Susan
Arnold
Delore Arsenault
James B. Atkinson
Alfred C. Avery

Roster of Donors

Mrs. John Bakie	George K. Chait	Mary Doyle	David Govatski
Donna C. Ball	Margaret C. Chase	Edward W. Drew	Thomas P. Grady
Roy Ball	Albert F. Chatel	Nancy-Jane Duncan	Ms. Irene Grand
Ed and Kerstin Balmer	Brian Chevalier	John and Pat Dunklee	Janet L. Gray
Kathleen Barker	Selinda Chiquoine	Robert W. Durant	Rod and Linda Gray
David Barr	Robert Christy	Tom Duston	George E. Green
Ms. Mildred A. Beach	Donald G. Cimato	Brenda Dymont	Mark Greenaway
Paul R. Beane	Debi Clark	Bruce and Sharon Edwards	Kathy Greene
David B. Beckley	Eloise Clark	Claire A. Emond	Knut Greulich
Hilda Begosh	Sukie Clark	Mary Epreman	Jill T. Guyer
The Bennetts	Meg Barden Cline	Brenda and Dave Erler	Frances Haase
Gerard and Dawn Bergeron	Dr. and Mrs. Arthur E. Cohen	Mike and Bobbi Evans	Charles Hafner
Evelyn Blais	Jacque Colburn	Sharan Facticeau	Mary D. Haig
Mr. Claude Blanchette	James A. Cole	Emily Fairweather	Joan Hall
Susan A. Blanchette	Elizabeth Conner	Jane Cooper Fall	Jessica Halm
Amy H. Blitzer	Dan Coons	Brian Faughnan	B. Hansen
Chris Bogard	Drs. David and Cynthia Cooper	Harley Featherston	Betsy Hardwick
Robin Bond	Michael and The Cordingley Family	Edna Fell	Dale and Penny Hardy
Marilyn Booth	Kathleen Costigan	Karen Fitzpatrick	Ann Harkleroad
John Boppel	Darrel Covell	The Fletcher Family	Geraldine Harrington
Lucille S. Boyd	Gary J. Crosby	Patricia Fleurie	Jean Harrison
Markey H. Boyer	David J. Crowe	Ramona B. Flewelling	Theresa Harwood
Robert Bradbury	Rebecca Cummings	Kenneth Folsom	Honey Hastings
Joseph A. Bradley	Mr. and Mrs. Howard N. Cunningham	Chick Forrence	Ben Haubrich
Kyra Brennan	Joseph & Ann Curran, Jr.	Reginald Fountain	Glen Hebert
Mr. James E. Brewer	J. E. Currie	Suzanne L. Fournier	Mr. Rick Helprin
Angie Brintle	Eber Currier	Stephen and Denise Fox	Bob Henderson
Mr. Richard Brisbois	Mary Currier	Robert Fraize	Anthony and Joan Heyes
Bob and Janet Bromley	Mary Currier	Mary Atwell and Nancy Frankel	Ed Hitchcock
Alvah Brown	Edwina H. Czajkowski	The Honorable Rep. Barbara French	Dr. Mary S. Hoffheimer
Frank and Lorraine Brown	Steven and Edith Daigle	Jennifer Patterson and David Frydman	Cathy Hoffman
Jennie Brown	Florindo F. Dal Pan	David Funk	Lee A. Holliday
Mary Brown	Rupert Dalton	Roland Gagne	George Holt
Phillip L. Browne	Anne K. Davenport	Raymond and Beatrice Gamble	Clif Horrigan
Ms. Cynthia E. Bruss	Albert J. David	Gidget Gamester	Ray and Bertha Horsch
Gail Bunnell	Brenda Davidson	Kimberly H. Gannon	Ms. Yvonne Howard
Rob Burbank	John C. and Rachel F. Davis	Robert Garland	Mr. and Mrs. Ronald Howe
Helen M. Burke	Natalie Davis	Joe and Sandra Gauci	Mrs. Gwendolyn Howe
Jeffrey F. Burley	David Deifik	Wayne Gauthier	Robert L. Hunt
Spencer W. Burney, MD	Dan Demers	George and Sandra Gavutis	Mr. Richard Hureau
Norman A. Bushman	Patricia Desantis	David E. Gillis	Joe and Wendy Hurray
Barbara B. Byrne	Milton J. Descoteaux	Nancy M. Gitschier	Richard M. Hussey
Barbara B. Callahan	William Dewey	John G. Gittzus, MD	Duane and Noreen Hyde
Mr. and Mrs. Alfred Cantara	Theresa Diluzio	Mrs. Laurie Glode	John and Jane Jette
Dennis Card	Jim and Barbara Dirsra	Joanne Godfrey	Linda Jette
Jon P. Carlson	Marjorie Doan	Russ and Karen Goldberger/ RJG Antiques	David Jorgensen
Noel C. Carlson	Daniel I. Dockham, Jr.	Mr. and Mrs. Robert Gonser	Norman Joslin
Cary N. Carpender	Daniel M. Doherty	Jane Goodwin	Andrew W. Kargacos
Ellen E. Cascadden	Janice Doughty		Priscilla and David Keay
Joe Catalano	E. C. Dow		Lucille Keegan
Theresa B. Chabot			Ronald M. Kelley

Roster of Donors

Gregory C. Kendall	Chris and Claire Martin	Mr. and Mrs. Frederick O'Connor	Glenn R. Saunders
James S. Kennedy	Peter McVay and Sue Martin	Mr. and Mrs. Richard Ogden	John and Valerie Scarborough
Robert Kilpatrick	Sandra W. Martin/The Little Nature Museum	Linda Ohlson	Carleton Schaller, Jr.
Ray Kimball	Pierre D. Martinet	Robert Ordway	Ms. Linda Schmidt
Grace W. King	Hubert and Alice Matheny	Mr. Jere Osgood	Helen B. Scribner
Steven and Susan King	Marion T. Mathes	Louise C. Paquette	Beverly and James Seipel
Vera Kirk	Vernon W. Matson	Gilbert Parker	Neil M. Sewall
Verne Kneeland	Mary Beth McAllister	Leon M. Parker	Frank W. Shaw
Bonnie Knott	Sue McCarthy	Ms. Pamela Parkinson	Pat Myers and Carolyn Sheehan
Len Korn	Carol and Clayton McKenney	Northam Parr	Mitch Sheldon
William S. Koury	Elizabeth S. Merriam	Leonard A. Peace	Stephen and Linda Shepard
Elizabeth Kruse	Esther Merrill	Robin Pelczar	E. Shivell
Raymond Kucharski	George Merrill	Joanna Pellerin	Lincoln Sinclair/Winnepesaukee Sportsmen's Club
Lynn La Bontee	John P. Merrill	Mr. John A. Perham	Anne Smith
Mr. James Lacy	M. B. Meyer	Richard Peterson	Jeff and Dottie Smith
Raymond Laferriere	Joe and Peggy Meyette	Edward K. Piel, Jr.	Martha Smith
Curt Laffin	Karla Meyette	Nancy Pilch	Wiltrud Mott Smith
Ronald Lafreniere	Lorraine Michalak	Tony Piontek	Robert D. Soule
Jeff Landon	Mr. and Mrs. Donald Miller	James and Dorothy Pitarys	Mike Speltz
Fred Lane	Richard W. Miller	Bernhard Pivczyk	Jim St. Onge
Charles Lanni	Theodore Miller	Rebecca Pockl	Mrs. Nancy Stearns
Steven and Terri Lapoint	Mr. Donald W. Mischke	Susan Poinier	Paul Steinberg
Lee Larson	Henry P. Mock	Ms. Nancy Pollard	Mrs. Ronald E. Stillman
Alec MacMartin and Arlene Laurenitis	Jill M. Monbleau	Jane S. Potter	Eric Stinson
James Lawn	Mr. H. E. Mongovan	Mr. and Mrs. Alfred L. Poulin	J. R. Stockwell
William B. and Shirley A. Leak	Ann Morgan	Ed Powell	Robert L. Stone
Robert R. LeBreux	Ron and Jeanne Morin	The Honorable Rep. Jim Powers	Guy W. Stoye
Gary M. Lee	Glenn E. Morrell	Lewis Pratti	Thomas P. Straughan
Naomi L. Levesque	George and Evelyn Morrison	Virginia T. Prince	Mark and Rebecca Suomala
Deborah Lievens	Bradley R. Morse	Edward Prouty	Lil Swenson
True Kelley and Steven Lindblom	Kenneth E. Moulton	Daniel Provencher	Brian V. Szarko
Jim and Judi Lindsey	John Muenzinger	Robert & Sally Puth	Mr. and Mrs. Peter Szawlowski
Rebecca Linehan & Family	Mrs. Ellen T. Muller	Harold S. and Avis J. Putnam	The Szlyk Family
Larry Lofaro	Harthon Munson	Chad Quartuccio	Fran Szmit
Raymond Longa	Richard P. Muollo	Oliver Quist	Michael Tancrede
Arnold and Patricia Lowrey	Joseph Murphy	Ken Reed	Mr. John Tear
Heidi Ludewig	Edward T. Murray	Judith Reeve	Heli Temford
William and Gail Maas	Mr. & Mrs. Art Nadeau	James P. Riccardi	Mr. Ned Therrien
Douglas A. Mackay	Shirley A. Nelson	Pamela M. Riel	Barbara M. Thompson
Allen and Evelyn MacNeil	Berk Nicol	Ruth Monk and Mike Riley	C. Thompson
Robert and Jennifer MacPherson	Donald Nielsen	David and Cristin Roby	James Thompson
Peter A. Magoun	Lynda Niles	Robert H. Rogers	Mr. David S. Thorpe
Patrick B. Mahoney	Susan W. Noble/NOR'LAND	Susan Roman	Frank J. Tomczykowski
Robert Mann	Thomas H. and Joy B. Nowell	Kathleen Rooney	Jewell Towne/Jewell Towne Vineyards, Inc.
Keith E. Mara	Alice and Paul Noyes	Bruce Rose	Janet Towse
Eleanor Mardin	Jon Nute/Ext. Educator, Forest Resources	Dennis and Karen Rosolen	Philip Turcotte
Elizabeth Marshall	Keith and Sarah Nyhan	Edwards B. Ross	Allan E. Upton
Arthur Martin	John O'Brien/O'Brien Forestry Services	Harold D. Ryea	Linn Urmson, Jr.
		Ruth Sadowsky	

Roster of Donors

Raymond Valliere
 Col. and Mrs. Frank J. Van Cura
 Joseph P. Van Schaick
 Jon and Sheila Vanderhorst
 Robert Vanesse
 Johanna M. Vienneau
 William S. Wadsworth, Jr.
 Ms. Jerri Waitt
 Ann Walker
 Tom Wall
 Bob Wallace
 Dr. Robert D. Wallace
 Leslie Ward
 Mr. George H. Watkins
 Nancy Watkins
 Kathy and Bradley Webber
 Nancy Wederski
 Muriel Weissman
 Ruth Wellington
 Linda C. White
 Cyndie Wilson
 Frederick T. Wolf
 Robert K. Wolfe
 Susan and Larry Wolfe
 Dan Woods
 Thomas M. Woroniak
 Carole and John Wyman
 Mr. Tony Yamamoto
 Lisa Yesse
 Carol Young
 Kenton M. Young
 Paul Zavada
 Andrew D. Zboray
 Ms. Judith B. Zivic
 Moose Meadow Farm
 Anonymous (26)

OTHER

Ruth C. Adams
 Meredith Allen
 Amey and Scott Bailey
 Mr. and Mrs. Ernest L. Bainton
 Ms. Christie L. Baker
 Barbara Bald
 Sharon R. Barber
 Evelyn Barrett/Alpha Delta Kappa, NH Alpha Chapter
 William E. Barrett
 Steven D. Beauchesne
 Franklin & Trudy Beck

Susan S. Bernard
 Karen Berthiaume
 Dr. Edwin Blaisdell
 Robert W. Bliss, USAF, Ret.
 Roberta Boley
 Larry and Linda Boucher
 Jack Bowen
 Robert Boyd
 Kenneth J. Braccio
 J. R. Branscombe
 Richard H. Breinlinger
 Janet Brown
 Richard L. Bryan
 Nora Bryant
 Mr. Charles V. Bucko
 Linda O. Bundy
 Douglas H. Bunker
 David and Eileen Burnell
 Mr. Anthony Buteau
 Col. (Ret) William T. Call, Jr.
 Kathy and Will Carter
 Ms. Sarah B. Chadwick
 Douglas Chamberlin
 R. A. Chambers
 Alan R. Chandler
 Mrs. Mary Anne Chapman
 Dona Chiarella
 Susan Chuvala
 John and Annette Clark
 Mr. Glenn D. Clark
 Laurie J. Comeau
 David A. Conner
 Michael Couitt
 Mrs. Emily T. Crane
 C. Culver
 Jean H. Cumings
 Mrs. Elinor Curdo
 Ms. Mary P. Curry
 John S. Day
 Jeannie De Grace
 Mr. George R. Dean
 Mrs. Geraldine Dean
 Paul Dearborn
 Katherine Delanoy
 Nancy Denoncourt
 Mr. Robert Denz
 Tina Deverill
 Mary Di Mauro
 Weston Dow
 Barry Salussolia and Joanne Dragaetti

Richard and Susan Drescher
 Thomas G. Dumais
 Julie R. Durgin
 David R. Duval, D.O.
 Mrs. Katherine E. Dymant
 Larry Ely
 Ashley Engler
 Mr. and Mrs. Carl L. Farnsworth
 Karen Faxon
 Nancy Fischer
 William S. Fischer
 Paul T. and Cheryl Ann Fitzgerald
 Steve Forte
 Michael Franklin
 Donna Frost
 Terry and Marion Frost
 Robert Gamlin
 Ms. Barbara C. Gannon
 Ms. Adele Garvin
 Ms. Beverly Gibbs
 Suzanne Gilbert
 Wayne C. Gould
 Michael Gregorich
 Mr. Alfred E. Grimes
 Catherine Geary and Kristen L. Grover
 Daniel R. Halsall
 Frank G. Hankus
 Ernest W. Hansche
 William Haswell
 Mr. Brad Hazen
 Norman M. Henderson
 Everett Henson
 Cynthia Hobbs
 Judy Hohenadel
 Shirley A. Hooker
 James Hurley
 Jane Huston
 James R. Huttel
 Lendon J. Jackson
 Alden and Kathy Jenness
 Virginia L. Jensen
 Arlene and Jack Johns
 Arlene W. Johnson
 Rodman Jordan
 Nancy Juranty
 John Michael Kallelis
 James E. Keating
 Virginia Kellner

Robert and Cynthia King
 Kenneth Kolben
 David Kolesar
 Clarence V. LaBonte
 Ms. Patricia V. Lafford
 Alice Landman
 Jane Landry
 John Lanier
 Ione M. Laro
 Alvin Larson
 Debra LaValley
 Victor and Patricia Lawrence
 Gloria M. Leavitt
 Susan Leclair
 Kenneth E. Lewis
 Ms. Mary Ann Lewis
 Richard J. Lobacz
 Mr. Richard D. Longo
 Mrs. Anna C. Mann
 Jan Marshall
 William B. and Nancy S. Marshall III
 Linda Martel
 Donald Martin
 Gloria McKinnon
 Ms. C. A. McNamara
 John V. McNamara, Jr.
 N. B. McWilliams

DONORS continued on next page



Spotted salamander

© NHFS/VICTOR YOUNG PHOTO

DONORS continued from previous page

Mr. Joseph N. Miele, Jr.
Peter L. and Margit Morey
R. J. Morrell
Robert and Sheila North
Janice S. Olson
James O'Malley
Richard O'Shaughnessy
Max and Patricia Parker
Mr. and Mrs. John Parker
Philip Parsons
Elyse Paul
Russ Peirce
Robert Pelletier
William E. Perry
Ray Philippon
Stearns Porter
Larry Potter
James J. Powell
Forrest Pratt
Mr. Benjamin Pratt
William W. Quain
Ann A. Rehlander
Kathleen Connors and Michael
Reynolds
Mr. Robert L. Richardson
Marion T. Roche
Robert W. Roxby
Mr. and Mrs. Raymond Roy
Edith Rumrill

Mr. Richard Sanders
Eric W. Schloth
Violet K. Schultz
Rudolph A. Skarda
Mary E. Sloat
Bruce and Anne O. Smith
Stanley Smith
Ruth K. Sousane
Raymond M. Spink
April Springfield
Brian E. St. Onge
Edward Stanley
Gary P. Stansfield
Walt Stockwell
William Stoops
Barbara Strawbridge
Jon N. Svendsen
Pete Thomas
Ms. Susan Thompson
Waino Tuominen
Dennis P. and Jane M. Vachon
Caryl Walker
Beverly Teach Wiegler
Roberta Willette
Ms. Cherylanne Williams
Robert P. Woodward
Lawrence W. Yearke
Peter Zak
Anonymous (17)

PLOVERS continued from page 1

At Hampton Beach State Park, weather was more of an influence. Both pairs lost both their first and second nests because of weather. However, one pair was not ready to give up, and they nested a third time, which is rare for piping plovers to do! It was worth their effort, though. Out of a full clutch with four eggs, all four chicks hatched. One chick disappeared for unknown reasons. Two chicks are believed to have died from natural causes. The fourth and final chick was the only piping plover chick to survive and fledge from the New Hampshire seacoast this year.

As for next year, Niziolek and staff from the Nongame Program will be meeting with law enforcement officers to get them more involved and help to enforce both state and federal endangered species laws at Hampton and Seabrook beaches. "The plover monitor can be polite and informative," Niziolek commented, "but law enforcement is definitely needed."

For more information about piping plovers, please visit the U.S. Fish and Wildlife Service website at www.fws.gov/northeast/pipingplover/index.html.

For more information on piping plovers in New Hampshire and their sand dune habitat, view the N.H. Wildlife Action Plan online at www.WildNH.com.

© KRISTEN MURPHY PHOTO

FALL Wildlife Almanac

OCTOBER

- American pipits, which breed on Mount Washington, can be seen during the fall migration. They are found mostly along coastal beaches and tidal creeks and in salt marshes and mud flats.

NOVEMBER

- Snow buntings, a winter resident in New Hampshire, may be found in open fields and along lakeshores and sand dunes.

DECEMBER

- Round whitefish spawning peaks this month in Newfound Lake and the Connecticut River. A single female spawns between 5,000 – 15,000 eggs in shallow water with gravel bottoms. Careful water level management is critical to ensure that winter lake drawdowns do not expose the eggs before they hatch in April.

PRRST STD
U.S. POSTAGE
PAID
CONCORD, NH
PERMIT #1478

New Hampshire
Fish and Game Department
11 Hazen Drive
Concord, NH 03301

