

July/December 2003

Vol. XXVIII No. 4



 T_{o} stand an old saying on its head, "A thousand pictures can be worth one word." For this edition of the Bulletin, that word is *recovery*. The photographs to the left represent some of the more than one thousand plants and animal species in the United States now listed as threatened and endangered. The Endangered Species Act directs federal agencies, working in partnership with state and local governments and the private sector, not only to protect such imperiled species but to return them to a secure status. *Recovery is seldom an easy* or straightforward task, and the pace at which it can be accomplished depends on our society's willingness to invest the necessary time, funds, and other resources.



Claire Cassel, Chief, Division of Partnerships and Outreach

Photo by John and Karen Hollingsworth

(703)358-2390

WASHINGTON D.C. OFFICE Washington, D.C. 20240

Steve Williams, Director

Gary Frazer, Assistant Director for Endangered Species Patrick Leonard, Chief, Division of Consultation, HCPs, Recovery, and State Grants Elizabeth H. Stevens, Deputy Assistant Director (703)358-2106 Chris L. Nolin, Chief, Division of Conservation and Classification (703)358-2105 Sam Rapphahn, Chief, Office of Program Support (703)358-2079 http://endangered.fws.gov/ PACIFIC REGION—REGION ONE Eastside Federal Complex, 911 N.E. 11th Ave, Portland OR 97232 California, Hawaii, Idabo, Nevada, Oregon, David B. Allen, Regional Director (503)231-6118 Steve Thompson, Manager, California/Nevada Office (916)414-6464 Washington, American Samoa, Commonwealth of the Northern Mariana Islands, http://pacific.fws.gov/ Guam and the Pacific Trust Territories SOUTHWEST REGION—REGION TWO P.O. Box 1306, Albuquerque, NM 87103 Arizona, New Mexico, Oklahoma, and Texas (505)248-6282 H. Dale Hall, Regional Director http://southwest.fws.gov/ MIDWEST REGION—REGION THREE Federal Bldg., Ft. Snelling, Twin Cities MN 55111 Illinois, Indiana, Iowa, Michigan, Robyn Thorson, Regional Director (612)715-5301 Minnesota, Missouri, Obio, and Wisconsin http://midwest.fws.gov/ SOUTHEAST REGION—REGION FOUR 1875 Century Blvd., Suite 200, Atlanta, GA 30345 (404)679-7086 Alabama, Arkansas, Louisiana, Georgia, Kentucky, Sam Hamilton, Regional Director Mississippi, North Carolina, South Carolina, Florida, http://southeast.fws.gov/ Tennessee, Puerto Rico, and the U.S. Virgin Islands NORTHEAST REGION—REGION FIVE 300 Westgate Center Drive, Hadley, MA 01035 Connecticut, Delaware, Maine, Maryland, Marvin Moriarty, Regional Director (413)253-8300 Massachusetts, New Hampshire, http://northeast.fws.gov/ New Jersey, New York, Pennsylvania, Rhode Island, Vermont, Virginia, and West Virginia MOUNTAIN-PRAIRIE REGION—REGION SIX P.O. Box 25486, Denver Federal Center, Denver CO 80225

Colorado, Kansas, Montana, Nebraska, North Dakota, South Dakota, Utah, and Wyoming Ralph O. Morgenweck, Regional Director

(303)236-7920 http://mountain-prairie.fws.gov/

ALASKA REGION—REGION SEVEN 1011 E. Tudor Rd., Anchorage, AK 99503

Rowan Gould, Regional Director

ENDANGERED Deces bulletin

Contributors

Martin Miller

Mary Parkin

Kris Lah

Paul Nickerson

Karene Motivans

Sarena M. Selbo

Melissa Neuman

Gary E. Peeples

Bruce Woods

Martha Balis-Larsen

Thomas H. White, Jr.

Marie M. Bruegmann

Fernando Nuñez-Garcia

Kathryn Reshetiloff

Christopher J. Botnick

Harry McQuillen

Ann Carlson

Hillary Walker

Telephone: (703)358-2390 Fax: (703)358-1735 E-mail: esb@fws.gov

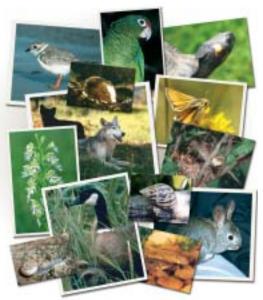
Editor Michael Bender

Associate Editor Susan D. Jewell

Contributing Editor Martha Balis-Larsen

Art Director	Layout
David Yeargin	Dennis & Sackett Design, Inc.

Subscriptions Manager Germaine Kargbo



The Endangered Species Bulletin welcomes manuscripts on a wide range of topics related to endangered species. We are particularly interested in news about recovery, babitat conservation plans, and cooperative ventures. Please contact the Editor before preparing a manuscript. We cannot guarantee publication.

We also welcome your comments and ideas. Please e-mail them to us at esb@fws.gov.

The Fish and Wildlife Service distributes the Bulletin primarily to Federal and State agencies, and official contacts of the Endangered Species Program. It also is reprinted by the University of Michigan as part of its own publication, the Endangered Species UPDATE. To subscribe, write the Endangered Species UPDATE, School of Natural Resources and Environment, University of Michigan, Ann Arbor, MI 48109-1115; or call (734) 763-3243.

Printed with vegetable-based ink on recycled and recyclable paper. If you do not keep back issues, please recycle the paper, pass them along to an interested person, or donate them to a local school or library.

IN THIS ISSUE

- 4 Three Decades of Recovery
- 6 A Journey of a Thousand Steps
- 10 Species on the Brink of Recovery
- 12 Saving Species on the Brink of Extinction
- 14 Recovering a Prairie Orchid
- *16* From Cage to Rainforest
- 18 Partners for Running Buffalo Clover Recovery
- 20 Recovery Planning for the White Abalone
- 22 Recovery Champions
- 24 Dick Biggins, Recovery Hero
- $26\,$ "Sea Otter" and the Geese
- 28 A Plan for Hawaiian Plants and Their Ecosystems
- 30 An Unconventional Approach to Habitat Conservation
- 32 Progress in Riparian Brush Rabbit Recovery
- 34 Stakeholders Unite for Flycatcher
- 36 CPR for Species
- 38 Partners in Butterfly Conservation

Departments

- 40 Listing Actions
- 44 Box Score