

# STEWARDSHIP news

*A publication of Audubon International*  
Volume 4, Issue 6 • November/December 2001

SPECIAL 10TH ANNIVERSARY EDITION



CELEBRATING 10 YEARS  
*of* HELPING PEOPLE IMPROVE  
THE QUALITY *of* THE ENVIRONMENT



Audubon International 2000/01

# 10 YEARS

In 2000–2001, we celebrated the 10th anniversary of the Audubon Cooperative Sanctuary System. In honor of this occasion, we've looked back at the events of fiscal year 2000–2001 and selected 10 highlights— notable achievements from the past year that reflect the breadth and scope of our programs to help people improve the quality of the environment. On behalf of all of us at Audubon International, our deepest thanks for the role you've played in this extraordinary decade past, and for the promise of an even better future.

## 2519 Registered Properties in the Audubon Cooperative Sanctuary System Representing One-Half Million Acres of Land

The Audubon Cooperative Sanctuary System provides the catalyst that helps a growing number of people initiate outstanding stewardship projects each year. We welcomed 325 new members in 2000/01, giving us the opportunity to educate people from all walks of life through our Golf Course, School, Business, and Backyard Programs. Results of our 2001 Managed Lands Survey indicate that our efforts are paying significant dividends for the environment. For instance, golf courses reported that they were able to increase wildlife habitat from an average of 46 acres to nearly 60 acres per course. Nearly 70 percent decreased water use, many by an average of 1.9 million gallons of water per year per course. Thanks to the hard work and dedication of individual participants, employees, volunteers, and community members, properties enrolled in the Audubon Cooperative Sanctuary Program demonstrate the effectiveness of stewardship action.

## 367 Certified Audubon Cooperative Sanctuaries in 43 States and 6 Countries

Our ongoing efforts to recognize outstanding environmental achievements reached a milestone this year as we surpassed 350 ACSP certified properties. Certification in the program helps our members measure their environmental performance and ensure that rigorous standards for environmental quality are met. Our staff works closely with property owners and managers at each site to help them develop and implement environmental management strategies tailored to the unique natural resources and environmental concerns of the golf course, school, business, or backyard property. In addition, we issued 622 Certificates of Recognition to members for outstanding achievements in environmental planning, wildlife and habitat management, chemical use reduction and safety, water conservation, water quality management, and outreach and education.

## U.S. Environmental Protection Agency Environmental Quality Award 2001

In April, the United States Environmental Protection Agency, Region 2, awarded Audubon International its 2001 Environmental Quality Award. This award was presented specifically for our efforts to promote environmental stewardship through the Audubon Cooperative Sanctuary

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While many environmental groups have shunned golf courses, Audubon International has stepped forward and created a very practical and effective program that now serves as a model for other industries. . . .

It is one of the few programs that can demonstrate clear, on-the-ground accomplishments that benefit the environment and that is also successfully changing people's attitudes.

*Peter W. Stangel, Ph.D., Director  
Southeast Partnership Office,  
National Fish and Wildlife Foundation*

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Program for Golf Courses. The award recognized the meaningful partnerships Audubon International has formed with the golf course industry resulting in significant improvements in its environmental management practices nationwide.



*On the cover: Superintendent Darren Moore teaches fifth graders how to plant trees at Manilla Southwoods Golf and Country Club, a Certified Audubon Cooperative Sanctuary in the Philippines.*

27 Certified Audubon Signature Sanctuaries; 94 Registered Signature Members in 40 different eco-regions, covering approximately 40,000 acres throughout the contiguous US, Hawaii, Puerto Rico, Canada, and Portugal.

The Audubon Signature Program certified its 27th Audubon Signature Cooperative Sanctuary by mid-2001. These properties provide prominent demonstration sites that showcase how sustainable design and resource management can be built into a development project. Through the Audubon Signature Program, we provide opportunities for landowners to build solutions to environmental concerns into the design and operation of a project. Twenty-five new members registered in the program this past fiscal year, including 14 new Resource Management and Education projects (basic-bronze level), eight new sustainable development projects (silver level), and three new Ecologically Designed Community Projects (gold level), to bring the total number of Audubon Signature Program members to 94. Audubon International staff spent approximately 425 person days in the field, planning, educating, and advising on conservation and restoration plans and providing technical assistance to members.

## Sustainable Communities Campaign

This year, we officially launched our Sustainable Communities Campaign, our effort to take the *Audubon Principles for Sustainable Resource Management* and the various program components of the Audubon Cooperative Sanctuary System and apply them on a community-wide basis. Communities share a common landscape, natural resources, economy, and cultural and historic heritage. A community-wide approach to stewardship and sustainability facilitates coordinated, integrated conservation efforts, while still emphasizing individualized involvement. Beginning in the small city of Eufaula, Alabama, we have pioneered an approach to working with a community that blends economic security, ecological integrity, and social/cultural heritage to build more livable and sustainable communities. The tremendous interest expressed by Eufaula's residents led Mayor Jay Jaxon to open discussions with us regarding the development of a citywide strategic plan based on the Audubon Principles for Sustainable Resource Management. The first phase of the projected 18-month planning process, begun in our fiscal year 2000/01, aimed to involve all of the 15,500 city residents in discussions regarding their concerns, desires, and dreams for their community. We will continue to work with Eufaula as well as take the next steps to launch this effort in the coming year in several additional existing and planned communities around the country.

## Frog Conservation Initiative

In 2001, Audubon International launched a new initiative to conserve frogs and other amphibians from significant population declines. The initiative involved educating members about conservation activities that enhance and protect habitats for frogs and salamanders and encouraging people to take part in national monitoring programs. Throughout the year, *Stewardship News* provided educational information about critical issues affecting amphibians and offered project ideas to help members join in. This effort was conducted as part of our ongoing participation in Partners in Amphibian Reptile Conservation (PARC) and sought to support monitoring programs of the United States Geological Survey North American Amphibian Monitoring Program (NAAMP).



If you would like to receive a copy of our 2000/01 Annual Report, please contact our office at (518) 767-9051, ext. 12.

## 10 Years of Educational Publications

Our educational publications seek to reach a broad audience to invite participation in Audubon International programs and educate members regarding ways to improve the quality of the environment. Publications encompass a wide variety of fact sheets, program guides, books, videos, certification handbooks, and journal articles, as well as this newsletter. During 2001/01, we revised our *ACSP Certification Handbook* for golf courses and contributed articles and case studies to *On Course With Nature*, a regular column in the *USGA Green Section Record*. The Audubon Signature Program developed and implemented the use of a new handbook for members enrolled as Resource Management and Education Projects (silver) and Sustainable Development Projects (gold). We published eight *Education Packets*, each one a compilation of articles, fact sheets, and case studies that present a wealth of information on a variety of conservation topics. A catalog of publications is now available to promote more widespread use of these educational resources.



## Collaboration for Conservation

Collaboration is central to the work we do. This year, we are honored to recognize the **United States Golf Association** for 10 years of financial support and technical expertise for the ACSP for Golf Courses. The USGA's commitment to working cooperatively with us to promote environmental stewardship on golf courses has been vital to our success.

Environmental Planning Department personnel worked closely with the **regulatory community** in locations around the country that require or highly recommend the Audubon Signature Program. We conducted seminars, site surveys, and site assessments for regulatory personnel. In a far-reaching show of support, Teton County, Wyoming; Charleston County, South Carolina; and Washington Township, New Jersey inserted the Audubon Signature Program into land use regulations for golf course development. The Florida Department of Community Affairs (DCA), the state-planning agency for Florida, the Florida Department of Environmental Protection, and several Florida Water Management Districts recognized the Audubon Signature Program as a way to achieve best management practices for golf courses in Florida.

Closer to home in upstate New York, we formed an alliance with the Northeast Loon Study Workgroup, the Wildlife Conservation Society, the Natural History Museum of the Adirondacks, the NYS Department of Environmental Conservation, and the Biodiversity Research Institute to create the **Adirondack Cooperative Loon Program**. This alliance will enhance and extend our NY Audubon Loon Conservation Program's research and education on loon populations in the Adirondack Park.

Working with other local environmental organizations in New York's Capital District, we strengthened the **Onesquethaw-Coeymans Watershed Council** by formalizing it as a tax-exempt non-profit corporation dedicated to protecting the watershed in which our headquarters are located. In January 2001, we received the *Community Partner Award* from the Junior League of Albany for hosting its *Holiday House*, which raised \$20,000 for its charitable projects.



## Education Programs and Outreach

Audubon International staff conducted classroom seminars, conference presentations, team meetings, and fieldwork for approximately 2,800 persons. These educational sessions focused on topics including developing an environmental plan, implementing site-specific environmental management strategies, managing wildlife and conserving habitats, and integrating environmental sustainability into businesses and communities. Our audiences represented a broad spectrum of individuals and organizations, including: teachers, parents, retirees, community leaders, corporate executives, golf course personnel, foresters, developers, architects, government employees, and land planners.

In 2000/01, we collaborated with the **Golf Course Superintendents Association of America (GCSAA)** to develop a new specialization in the GCSAA's environmental management program, *Habitat Development and Management*. Course requirements feature seminars developed and taught by Audubon International staff. Superintendents also may receive credit for Audubon Cooperative Sanctuary certification.

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Thanks for your  
continued participation  
and support.  
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## New Website Design and Online Services

We redesigned the Audubon International website to improve its content, appearance, and ease of navigation and expanded our online services. The new site was one of four non-profit organizational sites recognized by Microsoft for exceptional website design and was featured for the year on Microsoft's website. The new site includes a place for members to contribute data online to our Nest Box Survey and Managed Lands Survey, two long-term research projects. We added an online store to give members and visitors the opportunity to purchase Audubon International products, educational publications, and program memberships. In addition, we developed *Nature Kids*, a new section that gives younger people a place to play environmentally themed educational games.



*Photo credits:* Corpus Christi Elementary School at Warren Golf Course at Notre Dame, IN; The Mountain Course at Cordillera, CO; Grand Harbor Club, FL; The Savannah Course at Stevinson Ranch, CA; Bluff City Elementary School, AL; Blue Heron Pines Golf Club, NJ; The Legacy Club at Alaqua Lakes, FL; Silver Lake Country Club, IL; Christian Life Fourth Grade at Aldeen Golf Course, IL; Hammock Dunes Club, FL.

## Getting Through the Winter *Helping frogs and salamanders survive*

**W**inter is a critical time for all wildlife species. Severe weather in many regions combined with diminished food supplies presents a formidable challenge. Many won't survive.

Instinct prepares wildlife to meet the hardships of winter in a variety of ways. Migratory birds have long since flown to wintering grounds in the southern U.S., Mexico, and Central and South America. Mammals have completed intense eating periods or hoarded this year's natural harvest in order to store fat for the lean months ahead. Amphibians, too, are getting ready for winter and there is much you can do to lend a helping hand.

Regional differences in the severity of the season ahead have a profound influence on how frogs and salamanders spend the winter. In the southern U.S., many frogs and salamanders are active throughout winter months. Winter rains in Florida, for example, can bring on a great deal of active migration, calling, and reproduction. In contrast, freezing weather in the northern parts of the U.S. and Canada stops all amphibian activity and forces a period of hibernation.

### Providing hibernation sites

Because amphibians are cold-blooded—or *ectothermic* in scientific jargon—they cannot move or eat or do anything else when their temperature drops below a certain point. Some, like the woodfrog, which breeds inside the Arctic Circle, can even freeze to some extent without dying. However, all amphibians in cold areas need some place where they can be protected from the worst extremes of winter.

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Removing logs, sticks, and leaf litter to achieve a manicured look makes it impossible for amphibian species to survive the winter.  
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- **Ponds**—Hibernation sites differ among various groups of amphibians. Many aquatic amphibians hibernate in mud and debris in the bottom of a pond. Some spring breeders, like leopard frogs, also have been reported to hibernate in the sites they will use for breeding activity in the spring. In addition, some species have larval stages that require more than one growth season to metamorphose into adults. For all of these amphibians, it is important that water levels be sufficiently deep so the pond bottom doesn't freeze solid in mid-winter. Refrain from draining ponds, as this practice can cause aquatic amphibians to perish.



J. Mackay

*Until several years ago, this pond at Schuyler Meadows Club in New York was drained each winter, making it inhospitable to hibernating frogs. Thanks to the club's involvement in ongoing research with Audubon International, the pond now holds water year round and populations of several species of frogs make it their home.*

- **Wooded Areas**—Other aquatic breeders, like woodfrogs and mole salamanders, hibernate in their summer habitat locations, generally in wooded areas, and wait until spring to move to breeding ponds. These species typically hibernate under leaves, logs, rocks, and other cover objects. For them, as well as for the terrestrial breeders like many of the lungless salamanders, it is important to have sufficient cover on the forest floor. Leave rocks, limbs, debris, leaves, and other cover objects in woodlands. Amphibians will burrow under cover for warmth and protection.
- **Streams**—Recent evidence suggests that certain species also migrate to streams to spend the winter in moving water that contains more oxygen than still water. It is not certain how common this wintering behavior might be, but it is likely to occur in places that get cold enough to freeze the surface of ponds, but not the running water in streams.
- **Travel Corridors**—Regardless of whether frogs and salamanders move in the spring or fall, and regardless of whether they spend the winter in their breeding habitat, their summer habitat, or a third location, they all need to move back and forth between these different places. Make sure your property includes a network of suitable habitat connections that link breeding, summer, and winter habitats together. Movement distances can be 500 feet or more between these habitats.

# Amphibian Conservation Checklist

Review the checklist below and mark conservation activities that you have implemented. Place a star next to projects that you could implement in the coming year to improve amphibian populations on your property. Audubon International is compiling data regarding ACSP member participation in amphibian conservation activities. Please copy this checklist and send it to us at: Audubon International, 46 Rarick Road, Selkirk, NY 12159. Or visit our website to enter data online at: [www.audubonintl.org/projects/parc.htm](http://www.audubonintl.org/projects/parc.htm).

## Identify and Monitor Frogs and Salamanders

- Learn the life history and vocalizations of local frogs.
- Identify amphibian species on your property.
- Survey amphibian species in nearby natural areas for comparison.
- Monitor amphibians on your property and submit data to the USGS North American Amphibian Monitoring Program (NAAMP) or Frogwatch USA.

## Enhance Breeding Habitat

- Improve water quality in ponds, wetlands, and streams.
- Create no-mow, no-spray buffer zones to provide habitat and filter pollutants.
- Add shallow water areas by creating *littoral shelves* along the edges of deeper ponds or lakes.
- Enhance shallow water areas with emergent plants.
- Protect seasonal wetlands and shallow ponds without fish—these habitats are extremely important for amphibian breeding.
- Create a natural corridor between upland woods and ponds or wetland sites so that amphibians can travel safely between the two.

## Enhance Cover

- Add shelters, such as rock piles, brush piles, logs, or a small wall, to terrestrial habitats and damp places where amphibians are most likely to be.
- Add a log or downed limb in shallow areas of streams and ponds to serve as shelter and places to lay eggs.
- Create buffers of taller grasses or native plants along the shoreline of a stream, pond, or wetland.
- Leave woodland understory intact, including a shrub layer, leaf litter, and downed limbs.
- Refrain from draining ponds in winter.

## Reduce Hazards

- Restrict pets and livestock from specific sensitive locations, such as breeding ponds and wetlands.
- Don't stock fish in a shallow pond.
- Fence cattle or chickens away from marshy areas.
- Keep pets indoors—domestic cats are probably the worst offenders.
- Naturalize wet or seasonally wet areas with appropriate native plant material and keep lawn mowers away.
- Construct small animal crossings, such as tunnels or overpasses, on roads that bisect wetland and upland habitats to reduce deaths caused by automobiles during spring migration.
- Participate in local community efforts to slow traffic and help move amphibians across roads during spring migration.
- Practice integrated pest management to reduce chemical use and choose least toxic products when needed.
- Always apply chemicals according to label instructions and under proper weather conditions to prevent drift and runoff.
- Avoid wetland loss—especially small wetlands and seasonal ponds or pools.

## Connect Aquatic and Terrestrial Habitats

- Retain or create habitat corridors connecting wetlands and woodlands together.
- Link together as many natural and restored areas as possible.
- Limit traffic and maintenance activities and maintain good ground cover in corridors.
- Naturalize property borders to serve as natural travel corridors and sheltered areas that connect habitats on and off your property.

Submitted by: Contact Name: \_\_\_\_\_

Property Name: \_\_\_\_\_

City, State: \_\_\_\_\_

Phone: \_\_\_\_\_ Email: \_\_\_\_\_

## Birdies Fore Kids Raises Funds for ACSP for Schools

Audubon International raised \$3,200 for the ACSP for Schools at its inaugural *Birdies Fore Kids* golf tournament in August. ACSP golf member Orchard Creek Golf Course in Altamont, New York hosted the event. The generosity of numerous event sponsors and spirited interest in raffle tickets to the 2002 US Open boosted funds to support schools. Proceeds from the event will enable us to offer grants to schools to cover project expenses and defray the cost of membership in the ACSP for Schools.

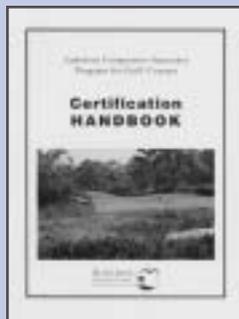


At the *Birdies Fore Kids* tournament, Audubon International raised \$3,200 for the ACSP for Schools. From left to right, staff members: Joellen Zeh, Paula Realbuto, Fred Realbuto, Alicia Karas, and Jennifer Batza.

## Upcoming Seminars and Presentations

Audubon International staff will be on the road over the next several months to present a variety of seminars across the country. Several of these seminars are offered through the Golf Course Superintendents Association of America's (GCSAA) Continuing Education Program. Should you like to receive more detailed information about attending one of these programs, please contact us at (518) 767-9051, extension 14, or call GCSAA's Continuing Education Department at 1-800-472-7878 for more information about GCSAA seminars.

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|--------------------|--|
| November 6, 2001   | Wildlife Management and Habitat Conservation (full day seminar), Denver, Colorado (GCSAA)  |
| November 15, 2001  | Wildlife Management and Habitat Conservation (full day seminar), Tarrytown, New York (GCSAA)   |
| December 12, 2001  | Water Quality Management (full day seminar), Albany, New York  |
| January 10, 2002   | Wildlife Management and Habitat Conservation (full day seminar), Salt Lake City, Utah (GCSAA)  |
| January 2002       | Developing an Environmental Plan: Wildlife Management and Habitat Conservation (half day seminar), Rutgers University, New Brunswick, New Jersey |
| January 15, 2002   | Developing an Environmental Plan (half day seminar), Atlanta, Georgia (GCSAA)  |
| February 4–9, 2001 | GCSAA Conference and Trade Show, Orlando, Florida  |
| February 4, 2002   | Integrated Environmental Management (full day seminar)   |
| February 5, 2002   | Developing an Environmental Plan (half day seminar)  |
| February 5, 2002   | Wildlife Management and Habitat Conservation (full day seminar)  |
| February 8, 2002   | A Guide to Environmental Stewardship and Sustainability for Golf Courses and Beyond (2–4 p.m.)   |
| February 7–9, 2002 | Tradeshaw—Look for our booth in the Allied Association area.   |



## Attention ACSP Golf Course Members:

Beginning January 1, 2002, all certification requests in the Audubon Cooperative Sanctuary Program for Golf Course must be made using the new *Certification Handbook*, mailed to all members in November 2000. After December 31, 2001, we will no longer accept certification request forms from the older *Certification Workbook*. If you have any questions or would like to purchase a replacement copy of the *Certification Handbook*, please contact Jennifer Batza, Membership Secretary, at (518) 767-9051 ext. 12.

## Useful Web Resources

The quality and quantity of useful web resources has increased dramatically as more and more people acquire computers and have access to online services. We've compiled a list of our staff's favorite sites related to wildlife enhancement and habitat conservation and hope they may serve you as well as they have us.



Warren Golf Course, IN

*Warren Golf Course in Indiana built several bat boxes as part of their efforts to gain certification in Wildlife and Habitat Management. Useful information on bats and many other wildlife species can be found on the Web.*

Please call or email us if you need information or resources. Our staff is available Monday through Friday from 9 a.m. to 5 p.m. to answer questions, provide resources, and assist you in furthering your stewardship efforts; telephone (518) 767-9051, extension 12 or email [acss@audubonintl.org](mailto:acss@audubonintl.org). Information is also available at our own website, [www.audubonintl.org](http://www.audubonintl.org), and the new website for the ACSS of Canada, [www.acss.ca](http://www.acss.ca).

### Amphibian Conservation

- Canadian Amphibians: <http://collections.ic.gc.ca/amphibians/index.html>
- Declining Amphibian Populations Taskforce: <http://www.open.ac.uk/daptf/>
- Great Lakes Declining Amphibians Taskforce: <http://www.mpm.edu/collect/vertzo/herp/DAPTF/daptf.html>
- Partners in Amphibian and Reptile Conservation (PARC): <http://www.parcplace.org>
- USGS—Frogwatch USA: <http://www.mp2-pwrc.usgs.gov/frogwatch/>

### Bat Conservation

- Bat Conservation and Management: <http://www.batmanagement.com/>
- Bat Conservation International: <http://www.batcon.org/>

### Bird Conservation and Nest Boxes

- The Birdhouse Network: <http://birds.cornell.edu/birdhouse/nestboxcam/>
- Birds of North America: <http://www.birdsofna.org/>
- Cornell Lab of Ornithology: <http://birdsource.cornell.edu/>
- The Nest Box: <http://www.nestbox.com/intro.htm>
- Partners In Flight: <http://www.nestbox.com/intro.htm>
- Purple Martin Conservation Association: <http://www.purplemartin.org/>
- North American Bluebird Society: <http://www.nabluebirdsociety.org>
- US Fish & Wildlife Service—migratory birds: <http://www.nestbox.com/intro.htm>

### General

- Association for Biodiversity Information: Natural Heritage Network Directory: <http://www.abi.org/networkdirectory.htm>
- enature.com Online Field Guides: [http://www.enature.com/guides/select\\_group.asp](http://www.enature.com/guides/select_group.asp)
- EPA: <http://www.epa.gov>
- United States Fish and Wildlife Service: <http://www.fws.gov>

### Native Plant Landscaping

- EPA—Landscaping with Native Plants: <http://www.epa.gov/glnpo/greenacres/natvland.html>
- Native Plants Galore: [http://www.plantsgalore.com/Galore/Native\\_Plants\\_galore.htm](http://www.plantsgalore.com/Galore/Native_Plants_galore.htm)
- The Nature Conservancy—weed control for exotic species: <http://tncweeds.ucdavis.edu/handbook.html>
- North American Native Plant Society: <http://www.nanps.org/index.shtml>
- US Department of Agriculture—excellent guide to plants: <http://plants.usda.gov>

### Water Conservation and Wetlands

- Center for Aquatic and Invasive Plants: <http://aquat1.ifas.ufl.edu/>
- EPA's Surf your Watershed: <http://cfpub1.epa.gov/surf/locate>
- Society for Ecological Restoration (SER): <http://www.ser.org>
- U.S. Water News: <http://uswaternews.com>
- Water Resources of the United States: <http://water.usgs.gov>
- Wetlands Regulation Center: <http://www.wetlands.com>

# membership NEWS

## Audubon Cooperative Sanctuary Program

### New Members

#### Golf Program

##### Connecticut

Tamarack Country Club, Greenwich

##### Delaware

Hercules Country Club, Wilmington

##### Florida

Airco Golf Club, Clearwater  
Burnt Store Country Club, Punta Gorda  
Highlands Reserve Golf Club, Davenport  
IGM—Tiger Point, Gulf Breeze  
Links at Boyton Beach, Boyton Beach  
Sunnybreeze Palms, Arcadia  
WCI/Pelican Sound Golf Course, Estero

##### Louisiana

Gray Plantation LLC, Lake Charles  
Island Country Club, Plaquemine

##### Massachusetts

Fresh Pond Golf Course, Cambridge

##### North Carolina

Sandy Ridge Country Club, Dunn

##### New York

Centennial Cove Club of NY, Carmel  
Sedgewood Club, New York

##### Pennsylvania

McKean Park, Shohola  
Westover Golf Club, Norristown

##### Rhode Island

Warwick Country Club, Warwick

##### South Carolina

Bloody Point, Hilton Head  
Melrose, Hilton Head

##### Vermont

Stratton Mountain Country Club, Stratton Mountain

##### International

Hansa Urbana, Alicante, Spain  
Seletar Country Club, Singapore  
Fazenda Das Mangais Sorl, Lvanda, Angola



*Audubon Signature Member Sand Ridge Golf Club, OH—Sand Ridge staff, Jim Roney and Brian Bates (standing), learn about native wetland plants from wetlands specialist Dr. Ed Hauser. The Audubon Signature Program helps its members protect and enhance wetlands during the design, construction, and maintenance of a development project.*

#### Business Program

##### Florida

WCI Corporate Offices, Bonita Springs

##### South Carolina

Home Depot 1118, Charleston

#### Backyard Program

##### Georgia

Joseph & Andrea Horton, Woodstock

##### Ohio

Mary Anne Ryan, Harveysburg

##### North Carolina

Timothy D. Buckner, Weaverville

### Recently Certified Audubon Cooperative Sanctuaries

#### Golf Program

Hassayampa Golf Club, Prescott, AZ  
Grand Harbor, Vero Beach, FL  
Pelican's Nest Golf Club, Bonita Springs, FL  
Tiburon Golf Club, Naples, FL  
Warren Golf Course, Notre Dame, IN  
TPC of The Twin Cities, Blaine, MN  
Bend Golf & Country Club, Bend, OR  
Glendoveer Golf Course, Portland, OR  
Saucon Valley Country Club, Bethlehem, PA  
Skiptack Golf Course, Skiptack, PA

#### Backyard Program

Timothy D. Buckner, Weaverville, NC  
Lyne Page, Palm Bay, FL

### Re-Certified Audubon Cooperative Sanctuaries

#### Golf Program

Salishan Golf Links, Gleneden Beach, OR,  
Certified Since 1994  
Glendale Country Club, Bellevue, WA,  
Certified Since 1998

## Audubon Signature Program

### New Signature Members

Black Oak Golf Club, Long Valley, NJ  
McKinney Roughs Golf Course, Bastrop, TX

### Newly Certified Signature Sanctuaries

Legacy Courses at Cragun's—Legacy Walk,  
Brainerd, MN  
The Old Collier Club, Naples, FL

### Re-Certified Signature Sanctuaries

Legacy Courses at Cragun's—South Course,  
Brainerd, MN  
Wuskowhan Players Club, West Olive, MI



## Get Ready for the Season Ahead

Scott A. Martin, National Coordinator

As we head into late autumn and early winter, I'm sure that most of you have been hard at work preparing for the season ahead. The indoor and outside conservation projects you undertake now can result in significant environmental and financial savings.

Take time now to evaluate your sanctuary projects from the previous year. What made projects work—or not work—and how might you improve on them? Fill out or review your Environmental Plan and get together with your resource advisory group to delegate tasks and plan for upcoming activities.

Here are a few suggestions for great projects to undertake as fall turns to winter:

### Caught in the WEB

[www.acssc.ca](http://www.acssc.ca)

The ACSSC proudly invites you to visit our new web site. Web master Shannon Rattray has been hard at work developing an informative, comprehensive, and interactive site. Please visit us and let us know what you think!

### Indoors

- Conduct an energy audit. Check for drafty doors and windows and poorly sealed and insulated areas of walls, floors and ceilings. Where necessary, add insulation and weather stripping and caulk small gaps that might allow cold air to infiltrate.
- Turn off lights and machines when not in use. One 100W light bulb left on for 24 hours a day costs over \$78 per year, at \$0.09 per kilowatt-hour. Imagine what it costs to leave your computer and monitor turned on when not in use, or your television, or stereo.
- Insulate your electric water heater tank and at least the first ten feet of hot water pipe. By installing a proper "tank blanket" you could save as much as \$20 per year. Turning your hot water temperature down from 140 degrees F to 130 degrees F will save you more money and greatly reduce the risk of hot water scalds.
- Install water saving devices on all your plumbing fixtures. Faucet aerators on taps and low volume showerheads help to greatly reduce water consumption. Good units provide strong pressure while reducing the water used by up to 60%.
- Replace old, large-tank toilets with low-volume flush models. Many older units still in use may consume as much as 15 to 25 litres of water per flush, compared with just 6 litres per flush for new models. At an average of 6 flushes per day, almost 22,000 litres of water per year per person are saved. If you cannot install a low-volume toilet, install a toilet dam that displaces water in the tank or prevents some water from flushing to save thousands of litres per year.
- Install compact fluorescent bulbs in at least 50% of your light fixtures. Compact fluorescents now come in all shapes and sizes to fit almost any fixture. They last 10 to 15 times longer than traditional incandescent bulbs and use only 20–30% of the energy.

### Outside

- Mulch gardens with clean shredded leaves. Mulch will protect your plants against the harsh winter climate, and in spring, will decompose to add organic nutrients to your soil.
- Clean out nest boxes and make a note of any repairs or additions that need to be made. Build new boxes over the winter so they're ready to use in spring.
- Keep bird feeders full throughout winter months and record the birds that frequent them on your wildlife inventory.
- Build a brush pile instead of dumping limbs or logs.

## Membership News

### New Golf Members

**Alberta**  
Willow Park Golf & Country Club, Calgary

**British Columbia**  
The Okanagan Golf Club, Kelowna

**New Brunswick**  
Sussex Golf & Curling Club, Sussex

**Nova Scotia**  
The Links at Montague, Dartmouth

**Ontario**  
Bigwin Island Golf Club, Huntsville  
Maples of Ballantrae Golf Club, Stouffville  
Markdale Golf and Curling Club, Markdale

**Quebec**  
Como Golf Club, Hudson  
Le Club de Golf Cap Rouge, Cap Rouge

### New Business Members

**New Brunswick**  
City of Moncton—Riverfront Park, Moncton

**Ontario**  
Seneca College, King City Campus, King City

### New Backyard Members

**Ontario**  
Douglas Ashton, Shelbourne  
Sue and Tanguay Charron, Oshawa  
Libby Rackansky, Courtice

### New Supporting Members

**Bronze Level**  
Envir-eau Inc., Gatineau, QC

## Newly Certified Audubon Cooperative Sanctuaries

### Golf

**Alberta**  
Jasper Park Lodge Golf Course, Jasper

**Ontario**  
Donalda Club, Don Mills

## Re-Certified Audubon Cooperative Sanctuaries

### Golf

**Alberta**  
Priddis Greens Golf and Country Club, Priddis, AB

**Ontario**  
Camelot Golf and Country Club, Cumberland, ON  
Nobleton Lakes Golf Club, Nobleton, ON  
Oakdale Golf and Country Club, Downsview, ON  
The Toronto Board of Trade Country Club, Woodbridge, ON

### Quebec

Hillsdale Golf and Country Club, Mirabel, QC  
Summerlea Golf and Country Club, Vaudreuil-Dorion, QC  
The Royal Montreal Golf Club, Ile Bizard, QC

### Business and Corporate

**Alberta**  
Goodman, McDougall & Associates Ltd.—The Learning Sanctuary

in this  
**ISSUE**

10 Years



Grand Harbor Club, FL

In 2001, we celebrated the 10th Anniversary of the Audubon Cooperative Sanctuary System. Join us for a review of this year's highlights.

**STEWARDSHIP**  
**news**

Audubon International publishes *Stewardship News* six times a year. Inquiries, contributions or letters to the editor should be addressed to:

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Design and Printing: Benchmark Printing, Schenectady, NY

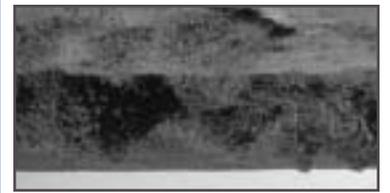
Audubon International is a non-profit environmental organization dedicated to improving the quality of life and the environment through research, education, and conservation assistance.

The Audubon Cooperative Sanctuary System (ACSS) and the Audubon Signature Program provide environmental education and technical assistance to facilitate voluntary environmental stewardship on private and public lands.

Funding is provided by memberships, donations, and program sponsorship. The ACSS Golf Program is sponsored by The United States Golf Association.

This newsletter is printed on recycled paper. 

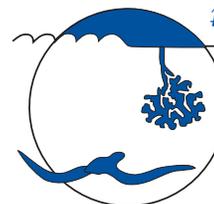
Year End Review: Take time now to evaluate this year's stewardship efforts. Fill out or review your Environmental Plan and delegate tasks and plan for upcoming activities.



**ACSS**  
**QUICK TIP**

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*Helping people help the environment*



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