

THE STILT

BRIDGERLAND AUDUBON SOCIETY

Volume 23, No. 1

September 1994

The Hotline Reluctantly Abandons Its Hammock

Red-shafted flickers perched on the Back Forty fence. . . Christmas themes sneaking onto the covers of those little brochures the Avon ladies leave. . . an occasional night that's cool enough to remind me of snuggling weather. These are signs that summer's on the wane here in Cache Valley.

The truth really hits home when *Stilt* Editor Lois Olson phones to remind me a Hotline column is overdue. If *The Stilt* is back in production then I'll have to sigh a little more plaintively—summer's truly gone. Your newsletter's Hotline reclines in a hammock with a stack of whodunnit novels, a pair of binoculars and a pitcher of cold lemonade from June through August, and doesn't much want to get up and going. This I know because I generally occupy the adjacent hammock.

But ready or not, here we go again. There are two things I need to mention as we sail into the new *Stilt* season:

THING 1 – What's the Hotline? (Gosh, people ask me this all the time, heh, heh). The Hotline is what you phone when you see some rare or unusual bird here in Cache Valley—or even just an ordinary garden-variety bird that's doing something weird. It's especially nice if you can persuade this bird to hang around for a while, so that other people can pop in and see it doing its interesting schtick.

Rare birds just happen, even here. An eastern blue jay

once spent the winter living on peanuts at a feeder near Adams Park, and a scissor-tailed flycatcher camped for two days and posed for pictures in my own backyard. One winter, large flocks of grey-crowned rosy finches foraged around the foothills, and last winter a well-insulated northern mockingbird held out until spring in the marshes along Valley View highway. Spring migrants have included a lesser goldfinch, black-and-white warbler and rose-breasted grosbeak, none of which were supposed to be here if you take the bird books as gospel. At least one person each year reports seeing a gyrfalcon, although you really have to be in the right place at just the right time for that one; they never stay for tea.

In the weird-but-not-rare category, we've had albino magpies, house finches with head tumors and a "mass meeting" of more than 100 Swainson's hawks before they flew to Argentina for the winter.

See THE HOTLINE page 3.

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Calendar

Wednesday, September 21. BAS Planning Meeting/Barbecue Potluck for Al Stokes' 80th Birthday Party at 5:30 pm. Sue Robertson will host at 1780 East 1400 North in Logan. Bring your own meat to burn (grills provided) and a dish or beverage to share. Come one and all to get reacquainted and help us figure out what we want to do for this upcoming year.

Thursday, October 13. BAS General Meeting at 7:30 pm at the Logan City Meeting Room, 255 N. Main. Program to be announced in next edition of *The Still*.

Wednesday, October 19. BAS Planning Meeting at 7 pm. All board members, officers, chairpeople and other members are always encouraged to attend these monthly planning sessions. This one will be held at the home of Pat and Tom Gordon (718 North 200 East, Logan).

Field Trips

Saturday, September 17. Kokanee Salmon Field Day. Leave at 9 am from the southwest corner of Fred Meyer's parking lot. Return in early afternoon. Watch at very close range the brilliant red kokanee salmon as they migrate up the Little Bear River from Porcupine Reservoir to establish territories and spawn. Talk with fisheries biologists from the Utah Division of Wildlife Resources about the history and management of kokanee. Have lunch in a shady spot, then go look for animal tracks along the shore of the reservoir and elsewhere.

Saturday, October 1. Annual Hawk Watch atop the Wellsville Mountains to observe the flight of raptors as they head southward using the updrafts. On a good afternoon it is possible to see over 100 raptors including golden eagles. Leave at 8 am from the southwest corner of Fred Meyer's parking lot and return by late afternoon. Bring lunch and water and binocs and some friends. This is a 4-mile climb on a good, but at times steep, trail, a rise of some 3,000 feet. Leader will be Jim Sinclair, 752-0061. If rain the trip will go on Sunday, October 2.

Friday/Sunday, October 7-9. Elk Bugling in the Tetons. Camp for two nights at Gros Ventre Campgrounds within Grand Teton National Park. Observe bison, antelope, moose, beaver, and of course elk. Go out Saturday evening with Terry Barnes to watch the huge bulls bugle and challenge other bulls and have them respond to her own elk bugle. A van will leave at 1 pm Friday with a charge of \$10 per person. Others will leave as their schedules permit. Count on 4 1/2 hour drive from Logan. Be prepared for sub-freezing temperatures at night but sunny, warmer weather by day. **ADVANCE RESERVATIONS NEEDED.** Call Al Stokes at 752-2702.

Welcome to New Board and Chairpeople

Last spring our current board elected three new trustees. Welcome to Scott George, Bryan Dixon and Barbara Rusmore! We look forward to your input.

Thanks for a job well done and good-bye to departing board member Bill Ehmann, publicity chairperson Chris Sands and legislative chair Yvonne Wilder.

Also, welcome to Beth Walden who will become our new publicity person

Help Wanted

New Legislative Chairperson needed to coordinate with Audubon State Council Lobbyist during the upcoming 1995 state legislative session. Three to five hours per month commitment during January, February and March. Help determine the future of Utah's environment! Call Dawn Holzer at 258-5205 for more details.

Logan Canyon Update

For many years, UDOT has proposed construction through Logan Canyon. The proposal has undergone many changes in recent years. Since December of 1993, CPLC (Citizens for the Protection of Logan Canyon) has been meeting with UDOT to explore possibilities for a compromise to long standing differences over the project.

Some of the results of those negotiations are:

UDOT has committed to building the bridges first.

The roadway width from Lower Twin Bridge to Beaver Mountain will be 34 feet. Previous plans had called for a 40 foot width through part of this section.

The proposed down-canyon turn lane at Temple Fork has been eliminated from plans.

UDOT will use a relaxed standard for clear zones which will emphasize maintaining natural canyon features.

These and other changes to the UDOT "Preferred Alternative" represent major steps toward compromise. CPLC is continuing to work with UDOT to explore a compromise that is agreeable to both organization.

CPLC has recently undergone a change of leadership, with long time leaders and Bridgerland Audubon members Bruce Pendery and Steve Flint stepping down to pursue other obligations. A new steering committee has been formed to guide CPLC through these discussions with UDOT.

— Shawn Swaner

The Hotline Reluctantly Abandons its Hammock

Continued from page 1.

The important thing to remember about the Hotline is that it only works if you call, and the number is 753-6268. Dialing it will get you either me, a member of my family or our friendly little answering machine. Please leave a detailed message with instructions for where to reach you, and someone—probably me—will call you back for a nice chat.

Hotline reports are rounded up and baked into a monthly hodgepodge known as my Hotline column in *The Stilt*. Really Hot Reports are shared via a loose-knit network of avid birders who jump into their cars and drive to wherever the Hot Bird has been seen, attempting to duplicate someone else's lucky sighting. If you would like to be included on the list of people who get called when Hot Birds appear, phone us with your name and number.

You do NOT need to be a world-class birder with 250 birds on your Cache Valley life list to be an important part of the Hotline, though we'll welcome you with open arms if you are. Please don't let yourself be intimidated because you've just bought your very first bird book and can't tell the sparrows apart yet. We can help, most generally, and when we can't we'll refer your questions to somebody smarter.

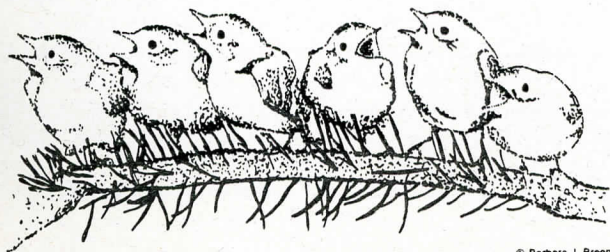
THING 2—What did you see on your summer vacation? It's always a blast to wander far afield and log some new birds on your Life List. If you'll tell me, I'll print a list of who saw what in the next issue of *The Stilt*—it'll be like those compositions you used to have to write on the first day of school, but vastly less painful since you'll only have to make a phone call and I'll have to do all the writing.

I myself created a small public spectacle in Columbia, Missouri, when a male cardinal perched on a lamp-post 10 feet away and began to sing his fool head off. And on the coast of Maine I saw laughing gulls, loons and a black-and-white warbler.

Surely some of you can top that! Call me with your vacation stories before September 15 and I'll spin them into next month's column.

Meanwhile, happy birding!

— Nancy Williams



© Laura Zerzan From "ECONEWS"

BAS Summer Vacation

The joint Idaho, Wyoming and Utah State Council meeting held at Bear Lake at the end of May was a resounding success. About 30 people were in attendance to discuss Bear River issues. A Tri-state Coalition was formed to educate ourselves and get involved in upcoming Bear River decisions.

National Audubon president, Peter Berle, addressed the group via speaker phone about the national budget problems. Peter discussed the fact that despite a \$1 million deficit, shares of membership dues returned to the chapters will not be cut. Also, the High Priority campaigns, such as Endangered Species, will continue. Programs for Audubon Adventures, Takings and Population will also continue. Several cuts have been made in national staff. Also, a very large anonymous grant has been donated to Audubon for strengthening grassroots chapter field operations.

This was a great opportunity to meet and interact with neighboring chapters and regional staff. Special thanks are due to the BAS members who helped host this event. Thanks to Alice Lindahl for oranges and sweet rolls, Bryan Dixon for beverages, Dick Mueller for pancakes and coffee and Al Stokes for being Al Stokes and cooking a mean tuna casserole.

In mid-August the second annual 2nd Century meeting of the Rocky Mountain Region was held at Audubon's Camp in the West at Dubois, Wyoming. We met to plan for the future of Audubon chapters. A regional committee was formed and is looking for input on how to best use the grassroots grant mentioned above.

Most recently, myself and other BAS members have been involved in making sure that the first of Cache Valley's Sandhill Crane Days really flies. It's still not too late to register (see enclosed flier) and help support eco-tourism in Cache Valley. A big turnout for the Crane Festival may help to convince those on the wildlife board that cranes have other value besides an annual harvest.

Finally, special thanks to outgoing board members, new and old volunteers and those who are thinking about becoming more involved. You are what keeps BAS going. Thank You!

— Dawn Holzer

Solo Wilderness First Responder

Logan, Utah

September 25 - October 4, 1994

Sponsors: Wilderness Medicine Institute and Utah State University

COST: \$325.00 Tuition Only
\$400.00 Tuition, Lodging and Meals

WILDERNESS FIRST RESPONDER COURSE: This course is designed to provide outdoor leaders, instructors, guides, rangers, and travelers with the knowledge needed to deal with emergencies in remote settings. It is an 80-hour curriculum meeting all the DOT National Standards for First Responder with additional protocols for extended care situations. Special topics include but are not limited to: wound management and infection, realigning fractures and dislocations, improvised splinting techniques, patient monitoring and long-term management problems, up-to-date information on all environmental emergencies, plus advice on drug therapies. Emphasis is placed on principles of treatment and decision-making, not memorization of lists.

CERTIFICATIONS: SOLO's Wilderness First Responder and American Heart Association's CPR.

INSTRUCTORS: This course will be taught by the staff of the Wilderness Medicine Institute, Inc. and SOLO Wilderness Medicine. The Wilderness Medicine Institute staff have taught all levels of wilderness medicine courses for such organizations as NOLS, Outward Bound, U.S. Forest Service, Student Conservation Association, National Audubon Society, and over two dozen colleges, universities, and small outdoor programs.

TUITION: The cost of instruction, textbooks, handouts, and exam fees is \$325.00. The cost of the course including meals and lodging is \$400.00. A \$200.00 deposit is required for registration. The balance is due by the first day of the course.

LODGING AND MEALS: The course will be held at the Utah State University Forestry Summer Camp located 22 miles northeast of Logan, Utah. Driving time from Salt Lake City is approximately three hours. The lodging includes dormitory style accommodations with three meals per day.

REGISTRATION

Enrollment is limited. To reserve a space, please return this form and your \$200 deposit to Kevin Kobe, Outdoor Recreation Center, Utah State University, Logan, UT 84322-7200

Course Name: _____ Course Dates: _____

Name: _____ Phone No.: _____

Address: _____

FOR INFO CALL KEVIN KOBE AT (801) 797-3264

Celebrate the Migration

Cache Valley's **SANDHILL CRANE DAYS**

September 9-10, 1994

Imagine standing in the silence of crisp autumn air, watching a grand arc of cranes sweep overhead, their wild language carrying across September skies . . .

Cache Valley is blessed with these elegant migrants (and a stable resident population). To those of us who cherish their spring dancing and grand departure each fall, they are the stars of the flyway.

While we are not Nebraska, where the Platte River hosts half a million cranes each year, we invite you to come share the glory of our spectacular cranes and other wildlife that shares this lush valley.

To celebrate the birds in company of others who respect their place on this earth, come share their wondrous spectacle before the magnificent migrants fly south to Colorado and New Mexico for another winter.

Welcome to Sandhill Crane Days '94!

Friday, September 9

7:00 pm Social/reception and Audubon crane film — The Coppermill Restaurant, Main Street, Logan

Saturday, September 10

7:30-10:30 am Birding tours of the marshes. Watch for cranes, herons, egrets, avocets, ducks, killdeer, blackbirds, owls on the marshes and fields. We'll stop at Gossner's Cheese Factory and the Jensen Historical Farm in Wellsville as well. Watch for some of the thousands of migrating raptors over the Wellsville Mountain Wilderness, site of Hawkwatch International's famous raptor counting station. Enjoy lunch on your own. May we suggest The Bluebird, The Straw Ibis, The Blue Goose, The White Owl.

1-3:00 pm Walking tour of the town's unique shops (birding gifts, books, art) and historic sites

5:00 pm Social, Logan Canyon, Wasatch National Forest

6:00 pm Dutch oven dinner under autumn's lovely leaves

7:00 pm A lively program of crane celebration

Earth's oldest living creatures, cranes, lived at the time of the Jurassic dinosaurs! In the Orient the crane is a symbol of peace. In the West, the crane is a lovely member of the natural world, a creature that has helped restore the endangered whooping crane, a bird that dances with its mate in the spring and travels thousands of miles in migration.

Diminishing worldwide, the crane is worthy of our protection. You can help by contributing to the state's Utah Wildlife Heritage Fund to purchase lure crops to attract cranes that may feed on local grain. This fund is dedicated to future crane festivals in northern Utah. All profits from the Sandhill Crane Days will be donated to that fund. We encourage you to help our cranes!

Join with us to send the cranes south in safe passage. Celebrate the sandhill!

Yes, I want to be part of SANDHILL CRANE DAYS '94! Enclosed is my festival fee of \$25, which includes the reception and film September 9, birding tour in the marshes, walking tour of Logan, Dutch oven dinner and program in Logan Canyon on Sept. 10.

Name _____ Phone _____

Address _____

Mail registration (payable to "Spirit of Utah Wilderness") by September 5 to: Sandhill Crane Days, 1234 Sherman Ave., Salt Lake City, UT 84105. For information, call 266-1708 or 258-5205.

Sponsors of Sandhill Crane Days '94 include:

*Utah Wilderness Association
Bridgerland Audubon Society
Great Salt Lake Audubon Society
Hawkwatch
The Nature Conservancy
Bridgerland Travel Region
Utah Wildlife Manifesto
International Crane Foundation*

Attend one, two, or all three components of the 1994 Convention.
It's a perfect opportunity for you to make a difference!
Come, see, and learn first-hand what Audubon is doing nationwide to save
South Florida's imperiled ecosystem!

NATIONAL AUDUBON SOCIETY

**PEOPLE
WATER
WILDLIFE**



Convention 1994

'94 BIENNIAL NATIONAL CONVENTION

**Sheraton Harbor Place Hotel and
Harborside Convention Center
Edwards Drive, Fort Myers, Florida**

November 11-13, 1994

- Provocative Speakers • Workshops
- Activist Training Sessions • Nature Shop
 - Great Egret Annual Dinner
with 1994 Audubon Medal recipient,
The Honorable Jimmy Carter
- November 10, 14-15, 1994**
- Fabulous Field Trips with Premier Birding

MOBILE LEARNING LAB

**Flamingo Lodge on Florida Bay
Everglades National Park, Florida**

November 15-18, 1994

- Expertly guided group tour
into the heart of the Everglades ecosystem!
- (Registrations will be limited
to assure a quality experience.)

POPULATION CONFERENCE — "The Road From Cairo"

**Hyatt Regency Hotel
400 SE Second Avenue, Miami, Florida**

November 18-20, 1994

- Follow-up on the U.N. International Conference on Population and Development
 - Hear reports from Cairo
- Discussion of U.S. national policies of population, environment and consumption
by Tim Wirth and Al Gore (invited)
- Showcase innovative solutions • Set the agenda for the next decade

Yes! I am interested in receiving registration information, lodging and travel details.

Mail form to:

Audubon Convention Office

4150 Darley Avenue, Suite 5 • Boulder, CO 80303-6537

Phone 303/499-3622 • FAX 303/499-0286

(Thank you for printing or typing.)

Name _____

Address _____

Please check the program(s) for
which you wish information.

☐ '94 National Convention

☐ Mobile Learning Lab

☐ Population Conference

1994-95 Outdoor Recreation Center Bulletin

Classes:



- **Solo Wilderness First Responder Course 9/25 - 10/4:** This course offers students the opportunity to learn wilderness survival and first aid techniques with a heavy emphasis on leadership and instruction techniques.



- **Introduction to Rockclimbing:** Introduces students to the sport of climbing, basic equipment needs, knot tying, safety and climbing techniques.



- **Intermediate Rockclimbing:** Caters to more advanced climbers and focuses on specific holds, strength development, lead climbing and route finding.



- **Introduction to Bicycle Maintenance:** Introduces cyclists to basic mechanic skills including: basic tool selection, derailleur tuning, brake adjustment, bearing adjustment and lubrication requirements. (Mountain and Road Bikes)



- **Mountain Biking Skills:** Focuses on mountain biking skills such as climbing, descending, bunny hopping, technical riding and basic equipment needs. Basic training programs will also be touched on. (All Skill Levels)



- **Fundamentals of Backpacking:** Touches on equipment needs, safety requirements, map & compass reading and trip planning.



- **Introduction to Kayaking:** Introduces novices to the basic skills of kayaking such as paddling technique, maneuvering, rolling and exiting.



- **Hiking and Trekking:** Just what it sounds like!!

* All classes are tentative, and may be changed or canceled depending on enrollment. Classes are offered through the Evening School Class Bulletin. Check for times and dates.

Other ORC Resources:

- **TheRock Gym:** Located in the Nelson field house, offers climbers a place to train in the winter. It opens November 14th.
- The ORC offers other resources such as: a Video Library, Detailed Regional Maps, Books, and Local Destination Literature and Information.

ORC Used Equipment Sale:

- Saturday, October 8th, 9am to 5pm at the Outdoor Rec Center. Equipment will include: tents, rafts, sleeping bags, and other outdoor gear.

FOR MORE INFORMATION, CALL THE ORC AT 797-3264 9AM TO 5 PM MONDAY-FRIDAY.

REGIONAL NEWS



Opportunities and Losses: Wetlands and Lobbying

The following is an update in regards to both the wetlands and lobbying efforts.

Two Utah Wetlands Priorities

National Audubon Society is embarked on a very exciting effort to develop a plan for wetland preservation and enhancement on the South Shore of the Great Salt Lake.

The planning effort is essentially from I-80 near Saltair to the south of the Farmington Bay Wildlife Management Area. This planning effort is divided into two components: (1) Examining ways to reinstate an old Jordan River system to the west and northwest of the Salt Lake Airport, which is referred to as the South Shore Wetlands Ecological Reserve; and (2) Providing the best possible options for the westside duck clubs that would provide incentives for them to ensure the continuation and potential improvement of their managed wetland areas.

This planning effort is being funded through Title III of the Central Utah Project Completion Act Funds. Ideally, the planning will be accomplished by October 1994, but should definitely be finished by January 1995. If the two planning efforts show strong potential for preservation and enhancement of wetlands, additional Title III CUP dollars for conservation easements, land purchases, and/or water rights can be sought. National Audubon is very interested in the first proposal mentioned above. The 107 acres that National Audubon owns is included in the proposed area. The reserve would include many different landowners, with the hope that a portion of this area would be a National Audubon Sanctuary. For the second proposal National Audubon is serving in a consulting role, hoping to provide the duck clubs the best options they can obtain for long-term protection. Dusty Dunstan, Vice President, Sanctuary Department for National Audubon is Project Director for both planning efforts. Ella Sorensen is team coordinator for the South Shore Wetlands Ecological Reserve.

Obviously this effort on the south shore is a very high priority. A second very high priority is to help in the formation of an organization that will be called Friends of Great Salt Lake. This private non-profit organization, which you will hopefully hear more about in the near future and continue to hear about for decades to come,

will have the mission to "preserve and protect the Great Salt Lake ecosystem and to increase public awareness and appreciation of Great Salt Lake through education, research and advocacy."

Both of these priorities are great opportunities. But, both are more necessary now because of the losses and pressures on and around the Great Salt Lake.

Resigning from the Lobbying Role

Talking about lobbying within the context of this article, is much more of a personal thanks and good-bye. First, thanks for the opportunity to represent the Audubon Council of Utah at the Utah Legislature for the last five years. Being a lobbyist, particularly for an environmental group at the Utah Legislature is not easy. It is very demanding. And yet to have the opportunity to try to help set policy directions on school trust lands, sovereign lands, solid and hazardous waste, and wildlife funding (to name a few issues) is certainly a rewarding challenge.

There are some losses. I wish I had involved more Audubon members. I wish we had worked on more proactive bills for the environment. I wish we had been more successful. But, overall, it was a great challenge, great fun. Good to meet the many people with the many different issues and values. Good to try to understand the complexities of an environmental issue and to try to look out in the best ways possible for the health of the environment.

For me, it is now time to say good-bye to the lobbying role. After five good years and other priorities taking precedence for 1995, I am resigning from the lobbying role. It is a loss for me. Thanks to the council and the chapters for their support.

Now, I hope the council and the chapters go out and get the best environmental lobbyist possible for the future.

— Wayne Martinson
Utah Wetlands Coordinator



**SUPPORT
UTAH'S
NATIVE
WILDLIFE**

**Watch this space...
for news on the WILDLIFE
HERITAGE ACT and what
you can do for Utah wildlife!
The Governor's Wildlife
Heritage Act task force is
working out the fine points of
this exciting new program that
will give YOU a direct means
of protecting wildlife and
important habitat in Utah.
You'll hear more here!**

Hummingbird Migration Adds to Summer Holidays

The Fourth of July is always an easy day to remember because it announces itself with parades, fireworks and other colorful displays including the hummingbird migration. It is the day I usually see my first rufous hummingbird. This tiny, brightly colored, burnt-orange bird and its relatives always seem to add to the festivities of the Fourth.

The three most common hummingbirds in Utah are the black-chinned, broad-tailed and the rufous. The black-chinned and the broad-tailed nest in the state while the rufous is a summer migrant. Both Utah nesting species usually lay two eggs in a nest about the size of a golf ball. The nest is constructed using plant fibers, lichen, spider webs, feathers and other soft or pliable materials. The eggs incubate 14 to 17 days and the young stay in the nest about 22-25 days. Plant nectar, pollen and small insects comprise the majority of a hummingbird's diet.

The rufous hummingbird is a summer migrant and the majority of birds pass through Utah in July and August. Adult males appear first, followed a few days or a week later by adult females and finally the juveniles. This pattern also holds true for the black-chinned and the broad-tailed hummingbirds which begin to migrate about the same time. This pattern indicates any flight directions juvenile hummingbirds follow on their migrations must be genetically encoded as they receive no direction from their parents.

Banding studies and observations indicate the rufous hummingbird follows a rather circular migration pattern using the Rocky and Sierra Nevada mountain ranges as flyways. The rufous hummingbirds nest in Oregon, Washington, Idaho and Montana, Western Canada and the Alaskan Panhandle. Banding records from a few individuals indicate the birds leave these areas and fly east or southeast and then work their way south along the South and Central Rocky Mountains. Some winter in the Southern United States while others continue into the Sierra Madre Orientale Mountains of Eastern Mexico and then west across the transvolcanic ranges. In the spring they work their way north along the Sierra Madre Occidentale of Western Mexico and then up the Sierra Nevada to Oregon and Washington. Some breed there while others continue north into Canada or east into Idaho or Montana.

The banding studies have also given age estimates for hummingbirds. Researchers on Gothic Mountain in Colorado banded a juvenile broad-tail in 1987. This small female returned to the banding station in 1988 and was observed nesting in 1989 and 1990. Gothic Mountain researchers have also caught and banded hundreds of rufous hummingbirds during their migration.

One caught as a juvenile has been recaptured in four of the next five years. Two other rufous hummingbirds were no less than four years old when recaptured.

Feeding hummingbirds has become a popular activity. The birds are easily attracted to a variety of feeder styles. Food can either be commercial blends or just sugar and water. Rich food sources are critical to hummingbird survival, research efforts have documented hummingbirds must consume more than their own body weight per day.

Hummingbirds follow a "meal" pattern where they feed and then rest while the energy is consumed. In one study, a ruby-throated hummingbird consistently ate 1/100 of an ounce for every meal. The number of meals per hour changed between five and 14 depending on the energy or calorie concentration of the food. In the wild, the calorie content of their food ranges considerably. One Arizona study documented flowers with calorie ranges from 10 to 82 calories with a mean average of 32.

Backyard bird feeders may have several goals but the major three are first, to attract birds to the yard; second, to supply food at a rate where the birds will stay nearby and visit the feeder frequently; and third, place the feeders where they can be easily viewed. Ratios of sugar to water of 1:3 or 1:4 are best as the food is concentrated enough to fulfill the hummingbirds caloric demand while maintaining frequent visits to the feeder. As the weather gets colder and flowers more scarce, increasing the sugar content to 1:2 or even 1:1 will give the birds more time between meals and more energy for their southern migration.

Utah Wildlife
by Ron Stewart

DWR Regional Education & Information Manager



Membership in the Bridgerland Audubon Society includes a subscription to *The Stilt*, as well as the *Audubon* magazine. The editor of *The Stilt* invites submissions of any kind, due on the 15th of each month. Send to 280 N. 300 E., Logan, UT 84321.

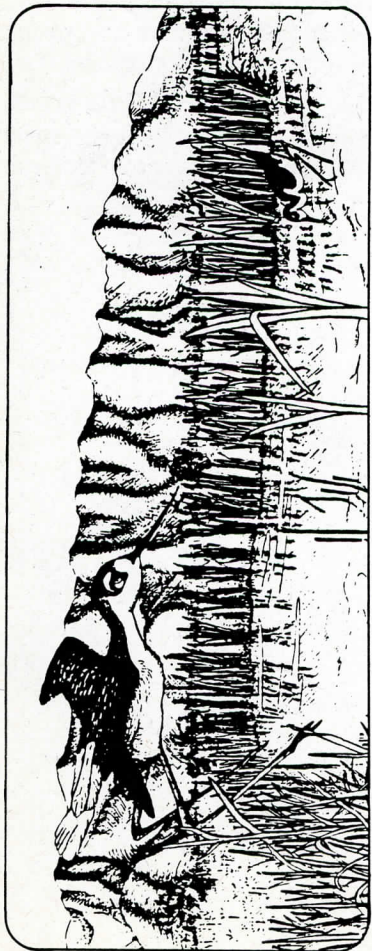
- 1991-94 Keith Archibald, 752-8258; Ron Hellstern, 753-8750
1992-95 Pat Gordon, 752-6561; John Sigler, 753-5879
1993-96 Val Grant, 752-7572
Tom Gordon, 752-6561; Rebecca Echols, 752-2367;
Richard Mueller, 752-5637
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Education Jack Greene, 563-6816
Membership Al Stokes, 752-2702
Field Trips Al Stokes, 752-2702
Newsletter Lois & Randy Olson, 752-9085
Circulation Susan Durham, 752-5637
Publicity Beth Waldeen, 753-0080
Hospitality Bill & Marjorie Lewis, 753-8724
Hotline Nancy Williams, 753-6268
Legislative Chairperson

The Bridgerland Audubon Society meets the second Thursday of each month, October through May, in the Meeting Room of the new Logan City Building, 255 N. Main. Meetings start at 7:30 p.m. The BAS Planning Committee meets at 7 p.m. on the third Wednesday of each month, September through May. Locations may change monthly. Check calendar page. Everyone is welcome to attend.

Nonprofit Organization
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THE STILT
BRIDGERLAND AUDUBON SOCIETY
P.O. Box 3501
Logan, Utah 84321



National Audubon Society Chapter Membership Application

Yes, I'd like to join.
Please enroll me as a member of the National Audubon Society and of my local chapter. Please send AUDUBON magazine and my membership card to the address below.
☐ My check for \$20 is enclosed.

NAME _____
ADDRESS _____
CITY _____ STATE _____ ZIP _____

Please make all checks payable to the National Audubon Society.
Send this application and your check to:
National Audubon Society
Chapter Membership Data Center
P.O. Box 51001 • Boulder, Colorado 80322-1001



Bridgerland Audubon Society
P.O. Box 3501
Logan, UT 84323-3501

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Subscriptions to *The Stilt* are available to non-members for \$5.00 per year. Call Tom Gordon, 752-6561. Also, call Tom for new subscriptions or address changes.