

NOW TRY THIS MARVEL MIX for birds

At this time of the year, it's nice to think of giving a present to the birds in your backyard. As temperatures drop, it is more important for birds to maintain their fat content in order that they might stay warm.

A good source of fat is peanut butter but by itself, it can be fatal to birds. It is much too sticky. The solution is to make up batch of, what John Torres calls, "Marvel Mix." The following recipe is from his book on attracting backyard birds.

- 1/2 cup peanut butter
- 1/2 cup shortening
- 2 cups plain cornmeal
- 1/2 cup plain flour

Do not use self-rising meal or flour.

HELP! HELP! HELP!

The nominating committee needs your help in selecting candidates for the following offices: President, 1st Vice President, 2nd Vice President, Treasurer, Recording Secretary, Membership Secretary and 3 Board of Directors members at large.

Please submit recommended names to: Angelo Cerrito Ph 767-5397, Carlton Smith Ph 253-3815 or Carl Lentz Ph 252-5053.

That portion of our by-laws that pertains to election and installation of officers is as follows:

"ART IV, Sec 3. The annual meeting of the society shall be the regular meeting in March at which time the program shall include elections and such other business as the membership shall desire.

ART. VI, Sec 1. ...The officers shall be elected at the annual meeting of members and assume their duties immediately following the close of the meeting. ...

ART. IX, Sec. 1. The Board of Directors shall annually appoint at the January Board meeting a nominating committee to consist of three members of the society. The names of the members of such nominating committee shall then be made known to the members of the Society in the January Pelican... suggestions for nominations for members of the Board of Directors

HUMMER MAKES HISTORY

By Frank Brown, Huntsville AL

Last October, after all of the common Ruby Throated Humming Birds had left for Central and South America, I noticed one hummer was still hanging around my feeder.

Not being an expert on humming birds, I reported it to an authority on hummers who bands them for the U.S. Fish and Wildlife Service. Upon capturing and banding it, to his he found, to his utter amazement, that it was an ANNA'S Hummingbird, usually found near the coast of California. It was the first one ever reported east of the Mississippi River. Anna was put on the rare bird hot line and immediately she became the talk of bird watchers throughout the country.

To date she has had over 200 watchers from as far way as Oklahoma and Michigan come to see her. A local station put her on TV, which was then picked up by CBS, who sent it to all their affiliates and the armed forces TV stations over seas. If you saw my ANNA on your local TV station I would appreciate you letting me know. Enclose a self addressed stamped envelope, and I will send you a picture of her.

Frank S. Brown, 6304 Trailwood Dr, Huntsville, AL. 35811 (12/27- She is now perched in an apple tree right by my front window. -FSB

and officers may be submitted to (the) committee by any member of the Society.

Sec.2. This committee shall nominate candidates for membership on the Board of Directors to succeed those whose terms of office next expire. Its report will be submitted at the annual members' meeting. This committee shall also nominate candidates for officers of the Society to succeed those whose terms of office expire. Its report will be presented at the annual members' meeting.

Sec. 3. Nominations of members for the Board of Directors or officers may be made from the floor at the time of the meeting at which elections are to be held, providing permission of such candidates has been secured."

VOLUCIA RIVERS TO BE SUBJECT OF NEXT H.R.A.S. PROGRAM

JOE NOLIN, Volusia Sea Grant Extension Program Agent, will make a presentation at our next meeting, January 18th. 7:00 PM is the time and the place is Seabreeze United Church, 501 N. Wild Olive Ave., Daytona Beach.

The Extension Program is a county wide non-traditional educational program that focuses on promoting the conservation and wise use of Volusia marine resources.

Mr. Nolin will present slides from various marine resource based education programs in which Volusia Sea Grant has been involved. The presentation will focus on the use, management and value of the Halifax and Indian Rivers in Volusia County. Future trends in marine resource management will also be discussed.

- John Williams, VP/Programs

SOLAR BRIGADE

TO ALL AUDUBON MEMBERS:

The National Audubon Society has a new campaign. The idea is simple. You send a notice along with your utility bill, every month stating "We want 10% solar energy in 10 years." Then you notify Audubon of your action because the utility companies will not tell Audubon how many people have responded. Audubon uses the collective clout of the respondents as leverage to negotiate with the electric utilities to make the switch. Solar energy will promote clean, safe efficient and economical renewable energy and will save the planet from 170 million tons of carbon dioxide a year. Please register with the solar brigade, National Audubon Society, 700 Broadway, New York, NY 10003, or by calling (212) 979-3000. -Marty Lee

FIELD TRIPS

Due to warm weather and the absence of Manatees, the scheduled Jan. 8th trip to Blue Spring SP was changed to Saturday Jan. 23rd. Feb 12th is still scheduled for Shiloh. - Carl Lentz

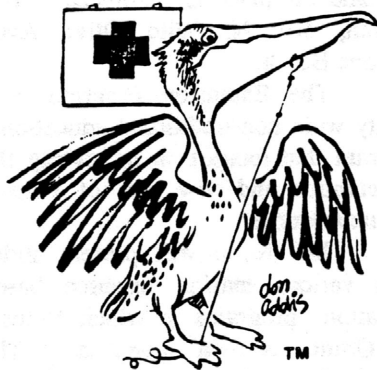
H.R.A.S. OFFICERS

President R. L. "Roy" Stevenson Ph 673-1838
1120 Oak Lane, Ormond Bch 32174
V. President John J. Williams Ph 255-8631
717 N. Peninsula Dr, Daytona Bch 32118
V. President Bill Francis Ph 672-6897
135 Deerlake Circle, Ormond Bch 32174
Treasurer Vivian F. Smith Ph 253-3815
542 S. Lanvale Av, Daytona Bch 32114
Rec'dg Sec'y. Marie L. Oglesby Ph 767-5553
1173 HoudyShell Rd, Daytona Bch 32119
Memb'ship Sec'y Audrey Christie Ph 255-7253
1333 Margina Rd, S. Daytona 32119
Members-at-Large (3)
Col. Carl Lentz, Ph 252-5053
Ms Mildred Esten, Ph 672-9132
Harold J. Nett, Ph 441-5584

Education Chair Ms Glade Koch Ph 253-8438
Conservation Chair David Hartgrove
Ph 788-2630
Newsletter Editor Carlton Smith Ph 253-3815

HOT LINES

Injured Birds - Mary Keller Ph 252-2794
New Bird I.D. Carl Lentz Ph 252-5053
Bird Welfare Roy Stevenson Ph 252-0466
Field Trips Carl Lentz Ph 252-5053



Help for Hooked Birds. ®

©1981, Ralph T. Heath, Jr.
18328 Gulf Blvd., Indian Shores, Florida 34835
Phone (813) 391-6211

David Hartgrove, our conservation chair, is working hard to have warning signs posted at Halifax River public launching sites and other strategic points, reminding fishermen of this problem. It is especially acute in the area around the Bird Island sanctuary near the Port Orange bridge. Call him at 788-2630 to lend a hand.

S. W. I. M.

(Surface Water Improvement & Management)
at Lake Apopka

Restoring the shallow water area around the shoreline of Lake Apopka, where plants are normally rooted, is a key element in the restoration of this once very popular fisherman's lake.

Half a century ago, the water in Lake Apopka was clear. Large marshes bordered the lake and its sandy bottom had vast areas of submerged plants, with a diversely vegetated near-shore zone. These characteristics made the lake a popular attraction for sportsmen seeking the ultimate trophy bass.

In the 1940's, as part of the war effort, marshes along the north shore of the lake were drained for vegetable farming. Since that time, the fields have been seasonally flooded for irrigation and pest control. When farmers cultivate and replant their fields, the excess water, rich in fertilizers and other nutrients, left over from previous cycles, is pumped back into the lake. 20 billion gallons of water pumped back annually, fed an explosive growth of algae, preventing sunlight from reaching remaining rooted plants on the lake bottom. As the algae completed its life cycle, it contributed to a loose layer of brown muck.

This not only eliminated valuable habitat for growing fish but also covered the sandy bottom areas where game fish deposited their eggs. The muck layer now averages 48 inches deep and is constantly resuspended by wave and wind action. The decrease in water quality confined the lake's littoral zone (the shallow water area mentioned above) to a narrow fringe composed mostly of cattails, which provide poor fish habitat.

St. John's Water Management District (SJWMD) is working to re-establish native aquatic plant communities in the lake, stabilizing the sediment and creating fish and wildlife habitat.

Native plant species from nearby lakes including giant and soft-stemmed bulrush, fragrant water lily, Southern naiad, spatterdock, knot grass, eel grass and pondweed are being planted at 25 sites around Lake Apopka.

"We're trying to introduce species



that were originally in the lake," said Walt Godwin, a District Environmental specialist overseeing the project. He says the plant's root systems, called Rhizomes, send out new stems and shoots and spread quickly. This helps stabilize the loose sediments on the bottom, which will improve water clarity and decrease more algal growth.

With state funding for the clean-up of Lake Apopka being cut, more creative and low-cost methods are being introduced. Portable floating barriers, recycled from other projects, are being anchored in front of existing and newly-planted vegetation. This helps to deflect waves and currents, aiding the plants in setting down roots and sending out rhizomes to fill in the shoreline stands of vegetation. Elsewhere, ex-visiting stands of cattails are being sculptured to protect new plantings.

Yet another "invention" being used - or more precisely being reused - is old sweat socks. Several pounds of sand are poured into the socks, which are then tied to root balls to anchor plants being transplanted. This type of anchoring is necessitated by the relative deep water (up to six feet) and soft sediment which preclude using traditional planting methods. The socks decompose in about five months. By then, the plants have established themselves on the lake bottom.

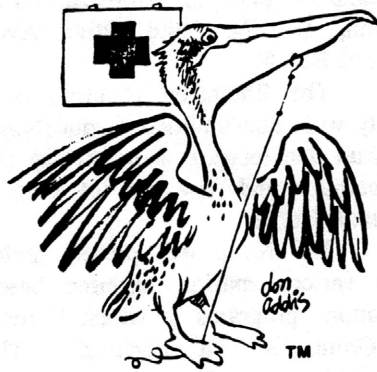
Florida Conservation Corps (FCC) has, since January 1991, helped construct and deploy portable barriers and in transplanting vegetation. Volunteers are also helping in re-vegetating the lake.

1333 Margina Rd., S. Daytona 32119
Members-at-Large (3)
Col. Carl Lentz, Ph 252-5053
Ms Mildred Esten, Ph 672-9132
Harold J. Nett, Ph 441-5584

Education Chair Ms Glade Koch Ph 253-8438
Conservation Chair David Hartgrove
Ph 788-2630
Newsletter Editor Carlton Smith Ph 253-3815

HOT LINES

Injured Birds - Mary Keller Ph 252-2794
New Bird I.D. Carl Lentz Ph 252-5053
Bird Welfare Roy Stevenson Ph 252-0466
Field Trips Carl Lentz Ph 252-5053



Help for Hooked Birds

©1991, Ralph T. Heath, Jr.
18328 Gulf Blvd., Indian Shores, Florida 34635
Phone (813) 391-6211

David Hartgrove, our conservation chair, is working hard to have warning signs posted at Halifax River public launching sites and other strategic points, reminding fishermen of this problem. It is especially acute in the area around the Bird Island sanctuary near the Port Orange bridge. Call him at 788-2630 to lend a hand.

Halifax River Audubon Society
Carlton M Smith, Editor
542 S. Lanvale Av
Daytona Beach FL 32114-3943

Apopka was clear. Large marshes bordered the lake and its sandy bottom had vast areas of submerged plants, with a diversely vegetated near-shore zone. These characteristics made the lake a popular attraction for sportsmen seeking the ultimate trophy bass.

In the 1940's, as part of the war effort, marshes along the north shore of the lake were drained for vegetable farming. Since that time, the fields have been seasonally flooded for irrigation and pest control. When farmers cultivate and replant their fields, the excess water, rich in fertilizers and other nutrients, left over from previous cycles, is pumped back into the lake. 20 billion gallons of water pumped back annually, fed an explosive growth of algae, preventing sunlight from reaching remaining rooted plants on the lake bottom. As the algae completed its life cycle, it contributed to a loose layer of brown muck.

This not only eliminated valuable habitat for growing fish but also covered the sandy bottom areas where game fish deposited their eggs. The muck layer now averages 48 inches deep and is constantly resuspended by wave and wind action. The decrease in water quality confined the lake's littoral zone (the shallow water area mentioned above) to a narrow fringe composed mostly of cattails, which provide poor fish habitat.

St. John's Water Management District (SJWMD) is working to re-establish native aquatic plant communities in the lake, stabilizing the sediment and creating fish and wildlife habitat.

Native plant species from nearby lakes including giant and soft-stemmed bulrush, fragrant water lily, Southern naiad, spatterdock, knot grass, eel grass and pondweed are being planted at 25 sites around Lake Apopka.

"We're trying to introduce species



that were originally in the lake," said Walt Godwin, a District Environmental specialist overseeing the project. He says the plant's root systems, called Rhizomes, send out new stems and shoots and spread quickly. This helps stabilize the loose sediments on the bottom, which will improve water clarity and decrease more algal growth.

With state funding for the clean-up of Lake Apopka being cut, more creative and low-cost methods are being introduced. Portable floating barriers, recycled from other projects, are being anchored in front of existing and newly-planted vegetation. This helps to deflect waves and currents, aiding the plants in setting down roots and sending out rhizomes to fill in the shoreline stands of vegetation. Elsewhere, ex-visiting stands of cattails are being sculptured to protect new plantings.

Yet another "invention" being used - or more precisely being reused - is old sweat socks. Several pounds of sand are poured into the socks, which are then tied to root balls to anchor plants being transplanted. This type of anchoring is necessitated by the relative deep water (up to six feet) and soft sediment which preclude using traditional planting methods. The socks decompose in about five months. By then, the plants have established themselves on the lake bottom.

Florida Conservation Corps (FCC) has, since January 1991, helped construct and deploy portable barriers and in transplanting vegetation. Volunteers are also helping in re-vegetating the lake.

Non-Profit Organization
U. S. Postage
PAID
Daytona Beach, FL
Permit No. 395



The Pelican

NEWSLETTER OF
The HALIFAX RIVER AUDUBON SOCIETY

FEBRUARY 1993

SOLAR BRIGADE

As reported by Marte Lee in last month's *PELICAN*. National Audubon has launched a campaign to place pressure on utility companies to begin converting to solar power. The message is "We want 10% solar electricity in 10 years."

The Audubon Solar Brigade brochure included with this newsletter explains the program much better than can be done in the small space here provided. Please read it carefully. We sincerely solicit your participation.

HRAS ELECTION COMING UP

HELP! HELP! HELP!

Also referring to last month's *PELICAN* concerning the election of officers for our Chapter: The nominating committee sends the enclosed ballot to solicit your participation. Please give it your careful consideration.. Make your choices and mail it promptly.

NEXT MEETING

7:00 PM, Monday, Feb. 15th
Seabreeze United Church

501 N. Wild Olive, Daytona Beach
PROGRAM: Will start with bird identification Slides by Glade Koch. Glade did a wonderful job last month and many have made it known that they want her to keep it up. Glade is our Educational Chairman so we may once again look forward to this being a regular part of our meetings. We are sure that she, and those whom she may select to help, will keep our interest aroused and also make us better birders

DON'T MESS WITH MOTHER NATURE

From IF YOU LOVE THIS PLANET, by Dr. Helen Caldicott
as reprinted in THE SKIMMER, newsletter of
Southeast Volusia Audubon Society, February 1993

Did you know that less than 0.1 % of all pesticides ever reach the target insects? The other 99.9 % are dispersed in the groundwater, lakes, soil, and the air. Groundwater has been contaminated with more than 50 varieties of pesticides in some 30 US states. Fla. has the unhappy distinction of ranking next to the worst, Iowa, of all states in terms of groundwater potentially contaminated by pesticides, according to the US Dept. of Agriculture 1987 report. For potential contamination of both surface and groundwater, Fla. is the worst of any state, according to the same report.

The National Academy of Sciences reports that pesticides in food may cause one million cases of cancer in this generation of Americans. These pesticides are often just used to make food unblemished and beautiful.

Some of the most important species in the world are threatened by toxic chemical sprays used on crops. At the bottom of the food chain are the worms, fungi, insects and bacteria that recycle nutrients and maintain a healthy soil base and root system for plants. Bees, bats, and other insects that pollinate crops and disperse seeds are vital to our survival. 90 % of the most valuable US crops, worth a total of \$4 billion, are fertilized by insects. The catch -22 is that pesticides and herbicides used to protect the crops from predatory insects and weeds kill the very organisms upon which the crops depend.

Wild birds, bats and parasitic insects eat insect pests and act as natural

FIELD TRIPS

BY CARL LENTZ



Leave from the east end of the County Courthouse Annex parking lot on City Island (Orange Ave.) at 8:00 AM. All are welcome.

Fri. Feb. 12th - Blue Spring St. Pk.. Bird watching combined with manatee watching. Let us hope that a limited amount of cold weather will arrive to chase the manatees back to the spring.

Sat. Feb. 27th - St John's River boat tour conducted by one of our outstanding naturalists, Capt. Bob Hoskins. There is a charge of \$8.00 per person. Please call 252-5053 to indicate that you would like to go. This trip will introduce new comers to the beauty of the river. It is a tour that should not be missed.

NEWS OF RECENT TRIPS

One of the two trips in January was scheduled for Blue Spring. Warm weather kept the manatees from congregating in the spring area, necessitating a change of plans.

SOLAR BRIGADE

As reported by Marte Lee in last month's *PELICAN*. National Audubon has launched a campaign to place pressure on utility companies to begin converting to solar power. The message is "We want 10% solar electricity in 10 years."

The Audubon Solar Brigade brochure included with this newsletter explains the program much better than can be done in the small space here provided. Please read it carefully. We sincerely solicit your participation.

**HRAS ELECTION
COMING UP**

HELP! HELP! HELP!

Also referring to last month's *PELICAN* concerning the election of officers for our Chapter: The nominating committee sends the enclosed ballot to solicit your participation. Please give it your careful consideration.. Make your choices and mail it promptly.

NEXT MEETING

**7:00 PM, Monday, Feb. 15th
Seabreeze United Church**

501 N. Wild Olive, Daytona Beach
PROGRAM: Will start with bird identification Slides by Glade Koch. Glade did a wonderful job last month and many have made it known that they want her to keep it up. Glade is our Educational Chairman so we may once again look forward to this being a regular part of our meetings. We are sure that she, and those whom she may select to help, will keep our interest aroused and also make us better birders.

The feature part of our program this month will be a presentation by Arnold Leeks of Fla. Power & Light Co. and will highlight Hurricane Andrew, its effect on Southeast Florida, and what their company, along with the general public, has learned from it. Through the media of Video tape, the presentation will reflect actual conditions and will startle most of us, those of us who have become blasé about this powerful, and destructive, force of nature. You won't want to miss this.

**DON'T MESS WITH
MOTHER NATURE**

From IF YOU LOVE THIS PLANET, by Dr. Helen Caldwell
as reprinted in THE SKIMMER, newsletter of
Southeast Volusia Audubon Society, February 1993

Did you know that less than 0.1 % of all pesticides ever reach the target insects? The other 99.9 % are dispersed in the groundwater, lakes, soil, and the air. Groundwater has been contaminated with more than 50 varieties of pesticides in some 30 US states. Fla. has the unhappy distinction of ranking next to the worst, Iowa, of all states in terms of groundwater potentially contaminated by pesticides, according to the US Dept. of Agriculture 1987 report. For potential contamination of both surface and groundwater, Fla. is the worst of any state, according to the same report.

The National Academy of Sciences reports that pesticides in food may cause one million cases of cancer in this generation of Americans. These pesticides are often just used to make food unblemished and beautiful.

Some of the most important species in the world are threatened by toxic chemical sprays used on crops. At the bottom of the food chain are the worms, fungi, insects and bacteria that recycle nutrients and maintain a healthy soil base and root system for plants. Bees, bats, and other insects that pollinate crops and disperse seeds are vital to our survival. 90 % of the most valuable US crops, worth a total of \$4 billion, are fertilized by insects. The catch -22 is that pesticides and herbicides used to protect the crops from predatory insects and weeds kill the very organisms upon which the crops depend.

Wild birds, bats and parasitic insects eat insect pests and act as natural insecticides.

Frogs, toads and salamanders were the first vertebrates to inhabit the land, appearing more than 400 million years ago. ... They are disappearing from well protected areas of the earth that should be safe for them....

Why should we care? Frogs are acutely sensitive to the environment - they are our "canaries," our barometer of global environmental poisoning. Frogs are an important link in the ecological chain. Tadpoles eat algae and help to keep streams clean and flowing.

FIELD TRIPS

BY CARL LENTZ



Leave from the east end of the County Courthouse Annex parking lot on City Island (Orange Ave.) at 8:00 AM. All are welcome.

Fri. Feb. 12th - Blue Spring St. Pk.. Bird watching combined with manatee watching. Let us hope that a limited amount of cold weather will arrive to chase the manatees back to the spring.

Sat. Feb. 27th - St John's River boat tour conducted by one of our outstanding naturalists, Capt. Bob Hoskins. There is a charge of \$8.00 per person. Please call 252-5053 to indicate that you would like to go. This trip will introduce new comers to the beauty of the river. It is a tour that should not be missed.

NEWS OF RECENT TRIPS

One of the two trips in January was scheduled for Blue Spring. Warm weather kept the manatees from congregating in the spring area, necessitating a change of plans.

On Jan. 8th we went to Lake Woodruff Refuge. An advantage of this trip is that we can safely get out of our cars and stroll through the marsh, enjoying its scenic beauty as we search for the birds. While 45 species were seen, the ducks were unfortunately absent. However a lovely limpkin came out of the reeds to pose for pictures.

On the 23rd we went to Shiloh Marsh for one of the best birding trips in several years. The sharp eyes and identification ability of Larry Griffin helped us to list 66 species, from scrub

(See Trips back page.)

H.R.A.S. OFFICERS

President R. L. "Roy" Stevenson Ph 673-1838
1120 Oak Lane, Ormond Bch 32174
V. President John J. Williams Ph 255-8631
717 N. Peninsula Dr, Daytona Bch 32118
V. President Bill Francis Ph 672-6897
135 Deerlake Circle, Ormond Bch 32174
Treasurer Vivian F. Smith Ph 253-3815
542 S. Lanvale Av, Daytona Bch 32114
Rec'dg Sec'y. Marie L. Oglesby Ph 767-5553
1173 HoudyShell Rd, Daytona Bch 32119
Memb'ship Sec'y Audrey Christie Ph 255-7253
1333 Margina Rd, S. Daytona 32119
Members-at-Large (3)
Col. Carl Lentz, Ph 252-5053
Ms Mildred Esten, Ph 672-9132
Harold J. Nett, Ph 441-5584

Education Chair Ms Glade Koch Ph 253-8438
Conservation Chair David Hartgrove
Ph 788-2630
Newsletter Editor Carlton Smith Ph 253-3815

HOT LINES

Injured Birds - Mary Keller Ph 252-2794
New Bird I.D. Carl Lentz Ph 252-5053
Bird Welfare Roy Stevenson Ph 252-0466
Field Trips Carl Lentz Ph 252-5053

(Trips, From front page)

Jays and Hawks on land to Roseate Spoonbills and Avocets in the marsh. Many waders, from large Willets and Marbled Godwits to small Dunlins and Least Sandpipers, were out in force. Most of the Heron and Egrets native to Florida, including the Reddish Egret, were seen. Seven species of ducks including a Red Head were observed. The biggest thrill was to see acres and acres of marsh ponds covered by Pin Tails with their fannies in the air. To top off all of this, there were two flocks of White Pelicans.

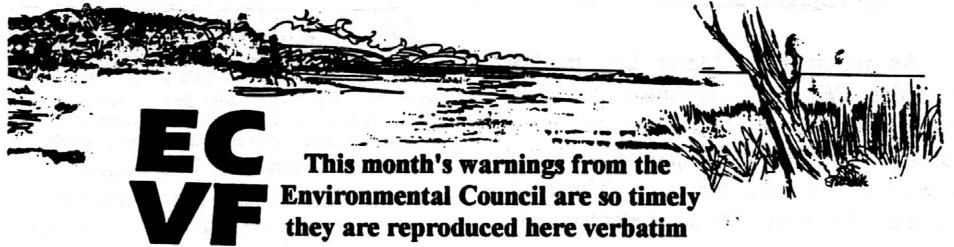
Hope you will join us on one of our future exciting trips. - Carl L.

KUDOS

To
RUTH HOUGH
For January Refreshments
THANKS, VERY MUCH!

- FLASH -

SEEN IN THE HALIFAX RIVER ALONG THE SPOIL ISLANDS WHITE PELICANS! A GROUP OF 15 WAS SEEN THE 1st WEEK OF FEBRUARY FROM THE 3200 BLOCK OF JOHN ANDERSON DRIVE.



**EC
VF** This month's warnings from the Environmental Council are so timely they are reproduced here verbatim

THE END OF AN ERROR: On his second day in office, President Clinton dissolved the Council on Competitiveness, the outfit that had been chaired by Dan Quayle to weigh the "cost" of environmental, health, and safety regulations on businesses and which had sought, among other measures, to "redefine" wetlands to allow more development. Vice-President Al Gore said, "We are sending a clear message to the special interests who used the Council on Competitiveness as a back door to avoid the law. That back door is closed."

NUCLEAR COSTS UNCLEAR: The tally on what it costs to dismantle U. S. nuclear power plants, some of which have been ordered shut down less than halfway into their expected life span, continues to mount. The estimates for closing two plants in Ohio have risen from \$340 million in 1989 to \$588 million to \$1.1 billion in 1993, presenting a slightly different scenario from the days when atomic energy proponents predicted that nuclear-produced electricity would be "too cheap to meter." Builders of the Fort St. Vrain nuclear power plant had expected there to be little need for water because the plant would use helium to control temperatures; but besides the million gallons of water that will be poured into the reactor during dismantling as a radiation shield, "untold amounts" of water will be required to wash up to 250 workers' uniforms a day for the three years the project will take—and then the quarantined laundry must be cut up and packed inside steel boxes which, along with the chopped-up floor on which the washer and dryer sat and the geiger counters, will be buried.

SUNSHINE AMENDMENT COULD SAVE \$\$\$: The 1992 Legislature outlawed deed restrictions which have the effect of prohibiting solar collectors, clotheslines, or other energy devices based on renewable resources from being installed on buildings. Solar proponents estimate that a household that washes one load of clothes a day can save half a barrel of oil a year by line-drying its laundry, or \$73.00, and keep 2.8 pounds of sulphur dioxide from entering the atmosphere.

FINANCIAL EMPIRE EYES ENVIRONMENT: In a report that a scientist for a major reinsurer called "very profound in its conclusions," Greenpeace has suggested that global warming may have stirred the recent spate of hurricanes that has devastated the insurance industry. Greenpeace hopes that the receptive attitude demonstrated by Lloyd's of London to whom the report was presented is an indication that the insurance industry will become an ally in the global-warming debate. Skeptics of Greenpeace's premise that the greenhouse effect is heating the planet dangerously respond with an argument that may sound familiar to environmentalists: increases in storm damage are merely the inevitable result of building in coastal areas.

Harold J. Nett, Ph 441-5584

Education Chair Ms Glade Koch Ph 253-8438

Conservation Chair David Hartgrove

Ph 788-2630

Newsletter Editor Carlton Smith Ph 253-3815

HOT LINES

Injured Birds - Mary Keller Ph 252-2794

New Bird I.D. Carl Lentz Ph 252-5053

Bird Welfare Roy Stevenson Ph 252-0466

Field Trips Carl Lentz Ph 252-5053

top on all of this, there were two flocks of White Pelicans.

Hope you will join us on one of our future exciting trips. - Carl L.

THE 1st WEEK OF FEBRUARY
FROM THE 3200 BLOCK OF
JOHN ANDERSON DRIVE.



This month's warnings from the Environmental Council are so timely they are reproduced here verbatim

THE END OF AN ERROR: On his second day in office, President Clinton dissolved the Council on Competitiveness, the outfit that had been chaired by Dan Quayle to weigh the "cost" of environmental, health, and safety regulations on businesses and which had sought, among other measures, to "redefine" wetlands to allow more development. Vice-President Al Gore said, "We are sending a clear message to the special interests who used the Council on Competitiveness as a back door to avoid the law. That back door is closed."

NUCLEAR COSTS UNCLEAR: The tally on what it costs to dismantle U. S. nuclear power plants, some of which have been ordered shut down less than halfway into their expected life span, continues to mount. The estimates for closing two plants in Ohio have risen from \$340 million in 1989 to \$588 million to \$1.1 billion in 1993, presenting a slightly different scenario from the days when atomic energy proponents predicted that nuclear-produced electricity would be "too cheap to meter." Builders of the Fort St. Vrain nuclear power plant had expected there to be little need for water because the plant would use helium to control temperatures; but besides the million gallons of water that will be poured into the reactor during dismantling as a radiation shield, "untold amounts" of water will be required to wash up to 250 workers' uniforms a day for the three years the project will take—and then the quarantined laundry must be cut up and packed inside steel boxes which, along with the chopped-up floor on which the washer and dryer sat and the geiger counters, will be buried.

SUNSHINE AMENDMENT COULD SAVE \$\$\$: The 1992 Legislature outlawed deed restrictions which have the effect of prohibiting solar collectors, clotheslines, or other energy devices based on renewable resources from being installed on buildings. Solar proponents estimate that a household that washes one load of clothes a day can save half a barrel of oil a year by line-drying its laundry, or \$73.00, and keep 2.8 pounds of sulphur dioxide from entering the atmosphere.

FINANCIAL EMPIRE EYES ENVIRONMENT: In a report that a scientist for a major reinsurer called "very profound in its conclusions," Greenpeace has suggested that global warming may have stirred the recent spate of hurricanes that has devastated the insurance industry. Greenpeace hopes that the receptive attitude demonstrated by Lloyd's of London to whom the report was presented is an indication that the insurance industry will become an ally in the global-warming debate. Skeptics of Greenpeace's premise that the greenhouse effect is heating the planet dangerously respond with an argument that may sound familiar to environmentalists: increases in storm damage are merely the inevitable result of building in coastal areas.

Halifax River Audubon Society
Carlton M Smith, Editor
542 S. Lanvale Av
Daytona Beach FL 32114-3943

Non-Profit Organization
U. S. Postage
PAID
Daytona Beach, FL
Permit No. 395

HAROLD J NETT
3 SUNNY SHORE DR
Ormbch FL 32176



AMBROSE ©

The Pelican

NEWSLETTER OF
The HALIFAX RIVER AUDUBON SOCIETY

MARCH 1993

SURVIVAL IN AN EGGSHELL



Ask 100 people to draw an egg, and 99 will make it *oval*, in unconscious tribute to chicken or robin eggs. But bird eggs come in a number of shapes. Those of hummingbirds and most herons are *elliptical*, with rounded, same-sized ends. Some hawks and many owls lay eggs that are nearly *spherical*. At the other extreme are *pyriform* eggs, rounded at the large end, nearly pointed at the other. Pyriform eggs are typical of shore birds and of the larger auks (such as murres); in these diverse groups the shape seems to have important—but very different—survival value.

The auks breed in colonies on flat cliff ledges, where they lay without benefit of nests. In the continual comings and goings of adults on crowded ledges, eggs are inevitably jostled. Once set in motion, a spherical egg would roll right off the cliff, while an oval egg would make a wide (and hence dangerous) circle.

But the pyriform egg has the best chance of staying on the ledge because it rolls in a tight circle around the pointed end, much the way a top completes its centrifugal spin.

Rolling eggs are no problem for shore birds, most of which nest in depressions on flat tundra. For them, egg size is the problem. Shore bird young are born precocial (alert, sighted, down-covered, and able to leave the nest within hours) rather than altricial (blind, naked, and helpless). Precocial young, in other words, develop more completely in the egg, and that requires more room within the shell. So shore birds lay large—sometimes astonishingly large—eggs, relative to their size. The common spotted sandpiper, for example, produces a four-egg clutch that outweighs the hen that laid it! (By contrast, an ostrich's average clutch of six eggs weighs about 10 percent of the hen's weight.) Most shore bird species invariably break off a clutch at four eggs, simply because there is no room for a fifth. Even the four-egg clutch can be covered by the incubating adult only because the pyriform shape allows the eggs to fit together, pointed ends in, to form a compact circle, like a pie cut in quarters.

Like egg shape and size, egg color varies widely. White was almost certainly the color of primitive birds' eggs. Cavity nesters—kingfishers, swifts, woodpeckers, some owls, and swallows—still lay white eggs which the adults can easily locate in the semidarkness of a stump cavity or bank burrow. But for most birds, high egg visibility would be a handicap, and most open nesting species have evolved cryptically colored



FIELD TRIPS BY CARL LENTZ

Leave from the east end of the County Courthouse Annex parking lot on City Island (Orange Ave.) at 8:00 AM. Bring picnic lunch & thirst quenchers.

Fri. Mar. 12th - Along the Halifax - to search for Godwits, Whimbrels, Willets and other waders. Migrating birds should be here from the south.

Sat. Mar. 20th- Wekiva Springs- This trip has been moved to this new date so we could obtain Eddie Williford as our guide. He loves the river and will make all its flora and fauna come alive. It will be an informative and relaxing two hour canoe trip. For those who do not think they are up to paddling, sit back and let the others do the work. There is a \$4.00 charge per person for the canoe. A delicious lunch can be obtained at the marina. Please call me at 252-2053 so that I may have an idea of how many canoes will be needed.

Fri. Apr. 2nd - Deiland Area - Another great trip of real birding! Dave Hartman, our conservation chairman

ANNUAL PICNIC

April 3rd

Angelo Cerrito's House

FELLOWSHIP from 12 NOON

EAT at 1:00 P M

SURVIVAL IN AN EGGSHELL



Ask 100 people to draw an egg, and 99 will make it *oval*, in unconscious tribute to chicken or robin eggs. But bird eggs come in a number of shapes. Those of hummingbirds and most herons are *elliptical*, with rounded, same-sized ends. Some hawks and many owls lay eggs that are nearly *spherical*. At the other extreme are *pyriform* eggs, rounded at the large end, nearly pointed at the other. Pyriform eggs are typical of shore birds and of the larger auks (such as murres); in these diverse groups the shape seems to have important—but very different—survival value.

The auks breed in colonies on flat cliff ledges, where they lay without benefit of nests. In the continual comings and goings of adults on crowded ledges, eggs are inevitably jostled. Once set in motion, a spherical egg would roll right off the cliff, while an oval egg would make a wide (and hence dangerous) circle.

But the pyriform egg has the best chance of staying on the ledge because it rolls in a tight circle around the pointed end, much the way a top completes its centrifugal spin.

Rolling eggs are no problem for shore birds, most of which nest in depressions on flat tundra. For them, egg size is the problem. Shore bird young are born precocial (alert, sighted, down-covered, and able to leave the nest within hours) rather than altricial (blind, naked, and helpless). Precocial young, in other words, develop more completely in the egg, and that requires more room within the shell. So shore birds lay large—sometimes astonishingly large—eggs, relative to their size. The common spotted sandpiper, for example, produces a four-egg clutch that outweighs the hen that laid it! (By contrast, an ostrich's average clutch of six eggs weighs about 10 percent of the hen's weight.) Most shore bird species invariably break off a clutch at four eggs, simply because there is no room for a fifth. Even the four-egg clutch can be covered by the incubating adult only because the pyriform shape allows the eggs to fit together, pointed ends in, to form a compact circle, like a pie cut in quarters.

Like egg shape and size, egg color varies widely. White was almost certainly the color of primitive birds' eggs. Cavity nesters—kingfishers, swifts, woodpeckers, some owls, and swallows—still lay white eggs which the adults can easily locate in the semidarkness of a stump cavity or bank burrow. But for most birds, high egg visibility would be a handicap, and most open nesting species have evolved cryptically colored and marked eggs, presumably to hide them from predators. In particular, ground nesting birds (shore birds and grouse among others) have made a fine and beautiful art of egg camouflage.

There are a few birds that lay white eggs but do not hide them in cavities. What protects them? Doves and herons sit on their eggs early and tightly; they simply don't allow predators a peek. Geese and grebes abandon their nests periodically, but they typically cover their eggs with down or vegetation before leaving.



FIELD TRIPS BY CARL LENTZ

Leave from the east end of the County Courthouse Annex parking lot on City Island (Orange Ave.) at 8:00 AM. Bring picnic lunch & thirst quenchers.

Fri. Mar. 12th - Along the Halifax - to search for Godwits, Whimbrels, Willets and other waders. Migrating birds should be here from the south.

Sat. Mar. 20th- Wekiva Springs- This trip has been moved to this new date so we could obtain Eddie Williford as our guide. He loves the river and will make all its flora and fauna come alive. It will be an informative and relaxing two hour canoe trip. For those who do not think they are up to paddling, sit back and let the others do the work. There is a \$4.00 charge per person for the canoe. A delicious lunch can be obtained at the marina. Please call me at 252-2053 so that I may have an idea of how many canoes will be needed.

Fri. Apr. 2nd - Deland Area - Another great trip of real birding! Dave Hartgrove, our conservation chairman and an expert birder, will take us to some of his favorite haunts to find indigenous passerines and migrating birds.

Sat. Apr. 24th - Orlando Easterly Wetlands Reclamation Project - Orlando has reclaimed ancient wetlands from cattle pastures and is in the process of returning them to their pristine state. The area has become a birders delight. There will be an expert to explain what has been accomplished.

(See Bird Trips on back page)

ANNUAL PICNIC

April 3rd

Angelo Cerrito's House

FELLOWSHIP from 12 NOON

EAT at 1:00 P.M.

ITALIAN FIESTA

LASAGNA, furnished by the club prepared by ANGELO

Bring salad, vegetable, bread or desert

also, bring your own drink.

Angelo's Address

6065 Hensel Rd., Port Orange

See map on back page.

BRING LAWN CHAIRS

H.R.A.S. OFFICERS

President R. L. "Roy" Stevenson Ph 673-1838
 1120 Oak Lane, Ormond Bch 32174
 V. President John J. Williams Ph 255-8631
 717 N. Peninsula Dr, Daytona Bch 32118
 V. President Bill Francis Ph 672-6897
 135 Deerlake Circle, Ormond Bch 32174
 Treasurer Vivian F. Smith Ph 253-3815
 542 S. Lanvale Av, Daytona Bch 32114
 Rec'dg Sec'y. Marie L. Oglesby Ph 767-5553
 1173 HoudyShell Rd, Daytona Bch 32119
 Memb'shp Sec'y Audrey Christie Ph 255-7253
 1333 Margina Rd, S. Daytona 32119
 Members-at-Large (3)
 Col. Carl Lentz, Ph 252-5053
 Ms Mildred Esten, Ph 672-9132
 Harold J. Nett, Ph 441-5584

Education Chair Ms Glade Koch Ph 253-8438
 Conservation Chair David Hartgrove
 Ph 788-2630
 Newsletter Editor Carlton Smith Ph 253-3815

HOT LINES

Injured Birds - Mary Keller Ph 252-2794
 New Bird I.D. Carl Lentz Ph 252-5053
 Bird Welfare Roy Stevenson Ph 252-0466

Bird Trips, from Page 1.

On Feb. 12th, we were finally able to go to Blue Spring to see the manatees. The river water temperature had fallen enough to make them seek the warmer water of the spring. After several false stops, we finally found sandhill cranes, thanks to the sharp eyes of Florence Waldman. Migrating birds had started north. We saw Arcadian Flycatchers and an Eastern Kingbird to top off our list of about 30 species. 'Twas an enjoyable trip.

On Mar 6th, we had an outstanding river boat tour from the marina on the St. John's River at Osteen Bridge. Bob Hopkins, who with his wife are the owners of the tour service, was our guide. He really knows the river and its birdlife. He is an expert boatman, a very obliging guide and goes all out to see

that his birding patrons have a memorable trip. We counted 50 some species with excellent views of most of them. We even had a study on the Forster's tern standing on a fire ant mound. It seemed to enjoy people-watching as much as we did bird-watching

Notes of interest - John and Ruth Hough report that the Eagles nest (in Daytona Beach) that HRAS has been monitoring for several years, has been taken over by Horned owls.

John Eggert reported that Daytona has joined Miami and Tampa with its own flock of Ringed Turtle Doves. These may have come from Birch Baggett's flock of caged birds that escaped when the winds blew away the netting on his aviary.

ANNUAL MEETING

7:00 PM, Monday March 15th,
 Seabreeze United Church, 501 N. Wild
 Olive Av., Daytona Beach.

Program will start with Bird Identification Slides by Glade Koch. Election of officers to serve for the next two years will be held during the business portion of the meeting. Nominations, in addition to those by the Nominating committee, may be made from the floor. If you wish to have your wishes to be made to the nominating committee, additional forms as were mailed to the membership last month, will also be available at the meeting.

For entertainment and education, we will view one of the National Audubon Bird Videos.

THANKS

to ANGELO CERRITO for providing refreshments at our last meeting. DAVE HARTGROVE will furnish them for the March

**LEFT- OVER NUTS
 NEVER MATCH
 LEFT-OVER BOLTS**

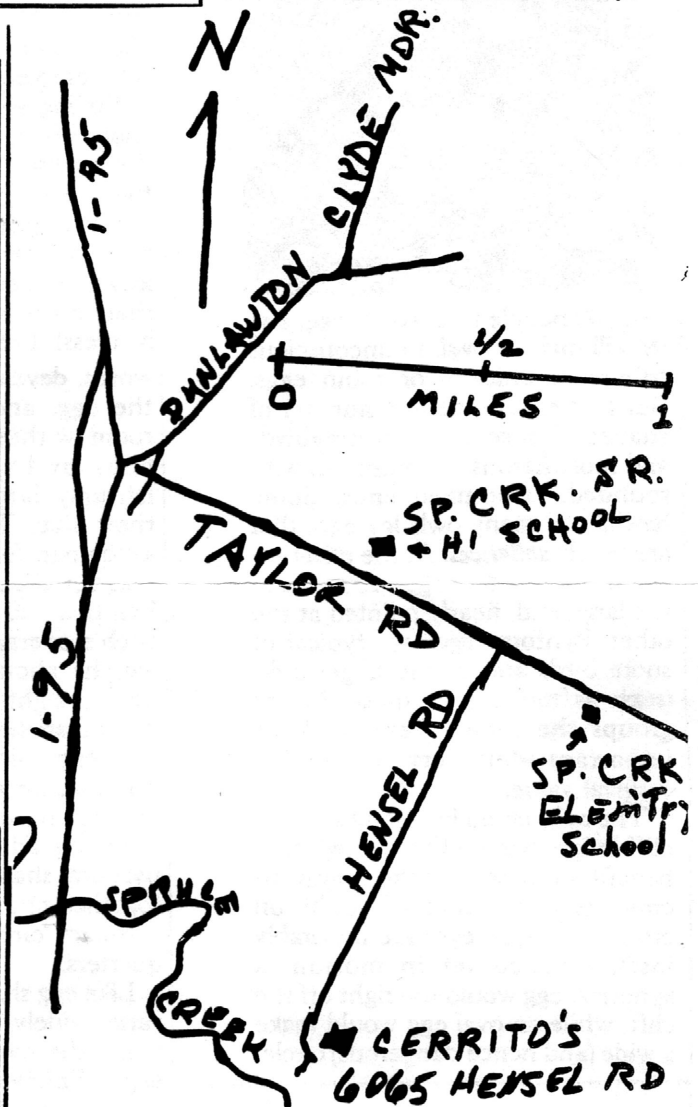


Remember when Stutz owners chided Mercer owners with the remark "There's nothing worse than a Mercer." The Mercer owners usually came back with "You have to be nuts to buy a Stutz."



Now both cars are classed as classic antique automobiles.

-from POSTY CARDS,
 KANSAS CITY,
 MO.



THE WAY TO ANGELO'S

HOT LINES

Injured Birds - Mary Keller Ph 252-2794
New Bird I.D. Carl Lentz Ph 252-5053
Bird Welfare Roy Stevenson Ph 252-0466

owners of the tour service, was our guide. He really knows the river and its birdlife. He is an expert boatman, a very obliging guide and goes all out to see

alive come from Birch Baggett's flock of caged birds that escaped when the winds blew away the netting on his aviary.

ANNUAL MEETING

7:00 PM, Monday March 15th,
Seabreeze United Church, 501 N. Wild Olive Av., Daytona Beach.

Program will start with Bird Identification Slides by Glade Koch. Election of officers to serve for the next two years will be held during the business portion of the meeting. Nominations, in addition to those by the Nominating committee, may be made from the floor. If you wish to have your wishes to be made to the nominating committee, additional forms as were mailed to the membership last month, will also be available at the meeting.

For entertainment and education, we will view one of the National Audubon Bird Videos.

THANKS

to ANGELO CERRITO for providing refreshments at our last meeting. DAVE HARTGROVE will furnish them for the March

**LEFT- OVER NUTS
NEVER MATCH
LEFT-OVER BOLTS**

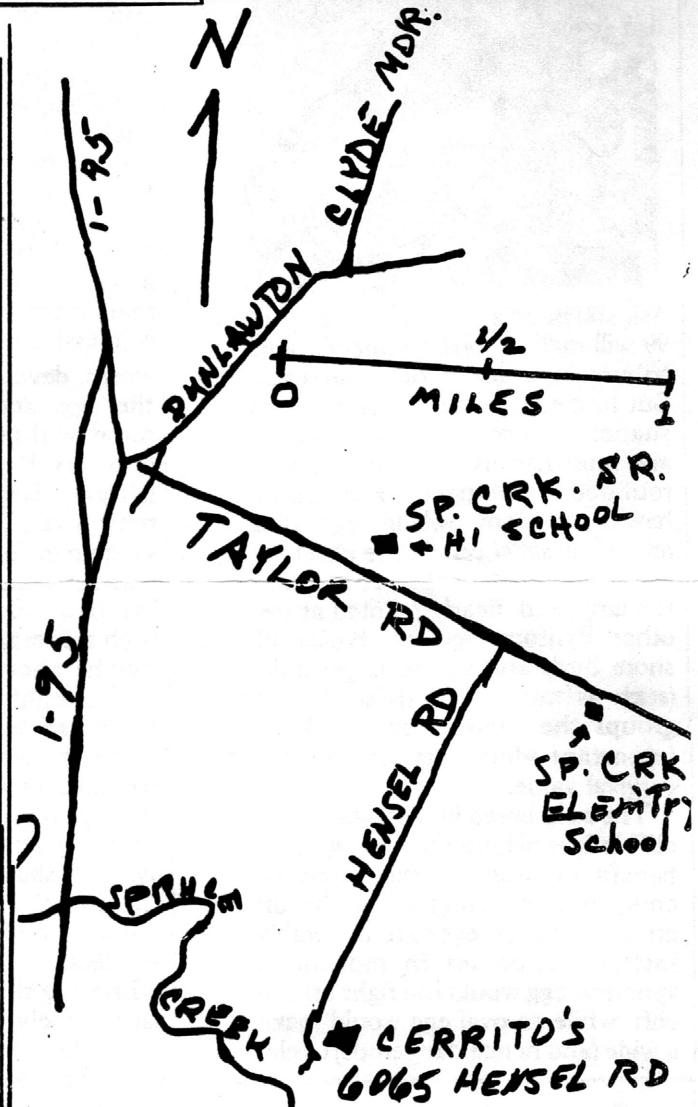


Remember when Stutz owners chided Mercer owners with the remark "There's nothing worse than a Mercer." The Mercer owners usually came back with "You have to be nuts to buy a Stutz."



Now both cars are classed as classic antique automobiles.

-from POSTY CARDS,
KANSAS CITY,
MO.



THE WAY TO ANGELO'S

HALIFAX RIVER AUDUBON SOCIETY
Carlton M. Smith, Editor
542 S. Lanvale Av
Daytona Beach FL 32114-3943

NON-PROFIT ORG.
U.S. POSTAGE
PAID
DAYTONA BEACH FL
PERMIT NO. 395

ADDRESS CORRECTION REQUESTED

MS MARIE L OGLESBY
1173 HOUDYSHELL RD
SouDay FL 32119

The PELICAN

Newsletter of Halifax River Audubon Society

APRIL/MAY 1993

FIELD TRIPS

By Carl Lentz

Saturday, April 24th - Orlando Easterly Wetlands Reclamation Project. Orlando has reclaimed ancient wetlands from cattle pastures and is in the process of returning them to their pristine state. They have become a birder's delight. There will be an expert there to explain what has been accomplished.

On the sixth of April, David Hartgrove treated us to a most enjoyable trip to some of his favorite birding spots in the Deland area. Even though the weather hindered birding with heavy winds, we were able to see 31 species. The high light of the trip was many Redheaded Woodpeckers that we see only infrequently around the Daytona area.

While the planned trips for the spring of 1993 are over, it may be possible to schedule special trips during the summer. The Pelican will be published every other month during the summer so look for announcements of field trips.

FLASH! Ruby Throated Hummingbirds are back. They have been reported (sometimes in quantity) from all parts of East Volusia. -Ed.

AUDUBON ADVENTURES

The future of Audubon is in the hands of America's children!

The leaders of National Audubon, and incidentally Halifax River Audubon also, feel that one of the best ways to educate children as to the environment is through the **AUDUBON ADVENTURES** program.

In this program, aimed at fifth grade students, each sponsored classroom receives enough bi-monthly newsletters for at least one per student. The teacher is furnished a teacher's guide, lesson plan and instructional materials for that particular issue of the newsletter. The cost

NEWS FROM NATIONAL CLINTON PACKAGE PROMOTES STRONG GREEN AGENDA

President Clinton has created an economic package with an environmental agenda of extraordinary dimensions. It includes initiatives that Audubon and other environmental groups have been advocating for the past two decades.

This bold economic package includes:

a phase-out of most of the worst federal subsidies, including mining, grazing, and timber subsidies;

a bold shift in our tax structure to pollution - based taxes, including a BTU tax and higher tax rates for oil to reclaim pollution costs;

increased funding for restoration of "natural infrastructure," including restoration of damaged wetlands, riparian areas, and forest lands;

and increased funding for state water treatment grants to clean up our polluted estuaries and rivers.

We must seize this extraordinary opportunity to put an end to government subsidies that are destroying critical habitat for wildlife, razing our forests and polluting our rivers and estuaries. Special interest groups that have benefited from decades of subsidies will, of course, be out in force to oppose the Clinton plan. We must not let these groups dismantle what is the most visionary environmental agenda ever to come from a federal

administration. Collectively, the memberships of environmental organizations add up to several million Americans. Over the next few months, chapters, councils, and members (as groups and individuals) should take the following actions:

Activate letter writing and telephone campaigns to Members of Congress and the White House in support of President Clinton's entire economic package.

Write letters to the editor of our local newspapers, supporting the entire plan and opposing special interests who want to dismantle it.

Seek editorial endorsement for the economic package from local newspapers.

Participate in radio call-in talk shows addressing the economic plan.

Organize press conferences with other groups in the community to show broad support for the economic plan.

Distribute pro-administration economic plan materials at public events and encourage citizen action.

(Ed's Note: In view of the recent stalemate and/or lack of action in the Fla. Legislature in these matters, it behooves us greatly to do everything within our power to try to stop like actions of certain interests in the U.S. Senate.)

Publishers Notice - The Board of Directors voted, at its March meeting, to continue "The PELICAN" publication year-round with summer publication to be every other month. Therefore it is expected that three issues will be published: April/May, June/July, and August/September. Stay "tuned" for local hot environmental subjects.

YOUR MONEY

HRAS PICNIC

CLINTON PACKAGE PROMOTES STRONG GREEN AGENDA

By Carl Lentz

Saturday, April 24th - Orlando Easterly Wetlands Reclamation Project. Orlando has reclaimed ancient wetlands from cattle pastures and is in the process of returning them to their pristine state. They have become a birder's delight. There will be an expert there to explain what has been accomplished.

On the sixth of April, David Hartgrove treated us to a most enjoyable trip to some of his favorite birding spots in the Deland area. Even though the weather hindered birding with heavy winds, we were able to see 31 species. The high light of the trip was many Redheaded Woodpeckers that we see only infrequently around the Daytona area.

While the planned trips for the spring of 1993 are over, it may be possible to schedule special trips during the summer. The Pelican will be published every other month during the summer so look for announcements of field trips.

FLASH! Ruby Throated Humming birds are back. They have been reported (sometimes in quantity) from all parts of East Volusia. -Ed.

AUDUBON ADVENTURES

The future of Audubon is in the hands of America's children!

The leaders of National Audubon, and incidentally Halifax River Audubon also, feel that one of the best ways to educate children as to the environment is through the **AUDUBON ADVENTURES** program.

In this program, aimed at fifth grade students, each sponsored classroom receives enough bi-monthly newsletters for at least one per student. The teacher is furnished a teacher's guide, lesson plan and instructional materials for that particular issue of the newsletter. The cost per classroom per school term is only \$30.

This past school year members of Halifax River sponsored 22 classrooms. Wouldn't it be great if this year we could reach 40? Think what an impact that would make on America's future!

If you think this program is worth continuing, and we hope you do, send your check to Vivian Smith, treasurer, 542 S. Lanvale Ave. Daytona Beach FL 32114. (Mark for Audubon Adventures.)

**Thanks, David Hartgrove,
for March refreshments.**

President Clinton has created an economic package with an environmental agenda of extraordinary dimensions. It includes initiatives that Audubon and other environmental groups have been advocating for the past two decades.

This bold economic package includes:

a phase-out of most of the worst federal subsidies, including mining, grazing, and timber subsidies;

a bold shift in our tax structure to pollution - based taxes, including a BTU tax and higher tax rates for oil to reclaim pollution costs;

increased funding for restoration of "natural infrastructure," including restoration of damaged wetlands, riparian areas, and forest lands;

and increased funding for state water treatment grants to clean up our polluted estuaries and rivers.

We must seize this extraordinary opportunity to put an end to government subsidies that are destroying critical habitat for wildlife, razing our forests and polluting our rivers and estuaries. Special interest groups that have benefited from decades of subsidies will, of course, be out in force to oppose the Clinton plan. We must not let these groups dismantle what is the most visionary environmental agenda ever to come from a federal

administration. Collectively, the memberships of environmental organizations add up to several million Americans. Over the next few months, chapters, councils, and members (as groups and individuals) should take the following actions:

Activate letter writing and telephone campaigns to Members of Congress and the White House in support of President Clinton's entire economic package.

Write letters to the editor of our local newspapers, supporting the entire plan and opposing special interests who want to dismantle it.

Seek editorial endorsement for the economic package from local newspapers.

Participate in radio call-in talk shows addressing the economic plan.

Organize press conferences with other groups in the community to show broad support for the economic plan.

Distribute pro-administration economic plan materials at public events and encourage citizen action.

(Ed's Note: In view of the recent stalemate and/or lack of action in the Fla. Legislature in these matters, it behooves us greatly to do everything within our power to try to stop like actions of certain interests in the U.S. Senate.)

Publishers Notice - The Board of Directors voted, at its March meeting, to continue "The PELICAN" publication year-round with summer publication to be every other month. Therefore it is expected that three issues will be published: April/May, June/July, and August/September. Stay "tuned" for local hot environmental subjects.

YOUR MONEY AT WORK

The following donations have been approved by the Board/ Directors:

Environmental Council of Volusia/Flagler Counties	\$50.00
Fla. Conservation Foundation (ENFO)	\$100.00
The Nature Conservancy	\$100.00
Fla. Audubon Society	\$100.00
Museum Arts & Sciences	\$ 50.00
Seabreeze United Church	\$200.00
Audubon Adventures -As Available	

HRAS PICNIC A HUGE SUCCESS

Our chapter is greatly indebted to Angelo Cerrito for hosting our annual picnic at his home on April 3rd. He also prepared the Main dish, Lasagna. Others brought their favorite party dish, some several. There were about 30 in attendance, the weather - perfect, and the fellowship - super. A fine Season Climax!

H R A S OFFICERS

President

Robert L. "Roy" Stevenson
1120 Oak Lane, Orm Bch, 32174
Ph 673-1838

1st Vice President

John J. Williams
717 N Peninsula Dr Day Bch 32118
Ph 255-8631

2nd Vice President

Angelo Cerrito
6065 Hensel Rd Prt Orange 32127
Ph 767-5397

Treasurer

Vivian F. Smith
542 S Lanvale Av Day Bch 32114
Ph 253-3815

Recording Secretary

Marie L. Oglesby
1173 Houdyshell Rd Sou Day 32119
Ph 767-5553

Membership Secretary

Audrey Christie
1333 Margina Av Sou Day 32119
Ph 255-7253

Historian

Harold J Nett
3 Sunny Shore Dr Orm Bch 32176
Ph 441-5584

Members at Large

Wilburn "Bill" Francis
Ph 672-6897

Carl J Lentz

Ph 252-5053

Carlton M Smith

Ph 253-3815

HOT LINES

Field Trips Carl Lentz 252-5053

New Bird I D Carl Lentz 252-5053

Injured Birds Mary Keller 252-2794

Bird Welfare Roy Stevenson
673-1838

News Letter, Editor or Distribution
Carlton Smith 253-3815

Rare Bird Alert - Volunteer

FLA. LEGISLATURE IN REVUE As Seen By the Environmental Council of Volusia & Flagler Counties

STATE SURVIVES SESSION: The 1993 Legislature adjourned in Tallahassee after what many observers have deemed to be an uneventful season. The environment was both the beneficiary and the victim of several measures:

--Preservation 2000 received \$10 million for a fourth year of operation, but there is still no permanent source of funding, so the fight will begin again in 1994 to keep the decade-long land-buying program alive.

--An 18 month ban on construction of two hazardous waste incinerators in Polk and Madison counties was approved.

--"Further study" and other euphemisms delayed, at this session at least, measures proposed to inform farm workers of what pesticides they are exposed to in their jobs and to impose a one-cent fee on containers made of materials not being recycled at a high enough rate. Restoration of the Oklawaha won't begin for at least two more years while legislators continue to "study" the Governor's and Cabinet's decision last year to immediately dismantle the 25-year-old Rodman Dam in Putnam County, part of the defunct Cross-Florida Barge Canal.

--The Departments of Natural Resources and of Environmental Regulation will be consolidated to "streamline" permitting for projects.

--Legislators also favored a "job siting" measure to let the Department of Commerce navigate the environmental permitting process for companies promising to establish jobs in its area; environmental regulations can be nullified for preferred businesses.

--Both sides will have until next year to gear up for a battle over a proposal to require financial compensation for property owners whose land value is reduced for more than 40% because of government action (environmental projection).

--A tax "rebate" for professional sports facilities will benefit developers of the Professional Golf Association hall of fame proposed for St. John's County which, like the LPGA golf course and I-95 interchange being built at more direct public expense for Consolidated-Tomoka Land Company's 16,000 acre Indigo project in Daytona Beach, will anchor a private housing development.

EARTH DAY

Is Thursday, April 22nd. There will be displays and activities in downtown Deland all day and especially during the County Council's mid-day recess. In Flagler County, Washington Oaks State Gardens near Marineland will present historical exhibits and re-enactors, live music, cultural exhibits, food and refreshments, and an art show throughout the day(s) on April 24th and 25th. Admission is \$3.25 per vehicle.

Thank you, ECVF. -cms, editor

"BIRDS IN THE BALANCE" This campaign, sponsored by the National Audubon Society, is working to save habitat for migratory land birds that nest in North America and spend their winter in Latin America and the Caribbean. These birds, dubbed "neotropical" migrants, are basically neither hunted nor endangered, and therefore are generally ignored in preservation campaigns. Audubon wants to encourage conservation action for these still common birds before they become endangered and crisis intervention becomes the only alternative. *Birds in the Balance* replaces its forerunner *Save Our Songbirds*.

717 N Peninsula Dr Day Bch 32118
Ph 255-8631

2nd Vice President

Angelo Cerrito
6065 Hensel Rd Prt Orange 32127
Ph 767-5397

Treasurer

Vivian F. Smith
542 S Lanvale Av Day Bch 32114
Ph 253-3815

Recording Secretary

Marie L. Oglesby
1173 Houdyshell Rd Sou Day 32119
Ph 767-5553

Membership Secretary

Audrey Christie
1333 Margina Av Sou Day 32119
Ph 255-7253

Historian

Harold J Nett
3 Sunny Shore Dr Orm Bch 32176
Ph 441-5584

Members at Large

Wilburn "Bill" Francis
Ph 672-6897

Carl J Lentz
Ph 252-5053

Carlton M Smith
Ph 253-3815

--An 18 month ban on construction of two hazardous waste incinerators in Polk and Madison counties was approved.

--"Further study" and other euphemisms delayed, at this session at least, measures proposed to inform farm workers of what pesticides they are exposed to in their jobs and to impose a one-cent fee on containers made of materials not being recycled at a high enough rate. Restoration of the Oklawaha won't begin for at least two more years while legislators continue to "study" the Governor's and Cabinet's decision last year to immediately dismantle the 25-year-old Rodman Dam in Putnam County, part of the defunct Cross- Florida Barge Canal.

--The Departments of Natural Resources and of Environmental Regulation will be consolidated to "streamline" permitting for projects.

--Legislators also favored a "job siting" measure to let the Department of Commerce navigate the environmental permitting process for companies promising to establish jobs in its area; environmental regulations can be nullified for preferred businesses.

--Both sides will have until next year to gear up for a battle over a proposal to require financial compensation for property owners whose land value is reduced for more than 40% because of government action.(environmental projection).

--A tax "rebate" for professional sports facilities will benefit developers of the Professional Golf Association hall of fame proposed for St. John's County which, like the LPGA golf course and I-95 interchange being built at more direct public expense for Consolidated-Tomoka Land Company's 16,000 acre Indigo project in Daytona Beach, will anchor a private housing development.

EARTH DAY

HOT LINES

Field Trips Carl Lentz 252-5053
New Bird I D Carl Lentz 252-5053
Injured Birds Mary Keller 252-2794
Bird Welfare Roy Stevenson
673-1838
News Letter, Editor or Distribution
Carlton Smith 253-3815
Rare Bird Alert - Volunteer

Is Thursday, April 22nd. There will be displays and activities in downtown Deland all day and especially during the County Council's mid-day recess. In Flagler County, Washington Oaks State Gardens near Marineland will present historical exhibits and re-enactors, live music, cultural exhibits, food and refreshments, and an art show throughout the day(s) on April 24th and 25th. Admission is \$3.25 per vehicle.

Thank you, ECVF. -cms, editor

"BIRDS IN THE BALANCE" This campaign, sponsored by the National Audubon Society, is working to save habitat for migratory land birds that nest in North America and spend their winter in Latin America and the Caribbean. These birds, dubbed "neotropical" migrants, are basically neither hunted nor endangered, and therefore are generally ignored in preservation campaigns. Audubon wants to encourage conservation action for these still common birds before they become endangered and crisis intervention becomes the only alternative. *Birds in the Balance* replaces its forerunner *Save Our Songbirds*.

Halifax River Audubon Soc., Inc
Carlton M Smith - Editor
542 S Lanvale Av
Daytona Bch FL 32114-3943

Address Correction
Requested

NON. PROFIT ORG.
Bulk Rate
U S Postage
PAID
Permit No. 395
Daytona Beach FL

JOHN J WILLIAMS
717 N PENINSULA DR
DayBch FL 32118

The PELICAN

Newsletter of Halifax River Audubon Society

JUNE/JULY 1993

BIRD NOTES

As scanned from

The BWD SKIMMER

COMMON LOONS AND LEAD

More than half the 77 Common Loons found dead near lakes in New England died of lead poisoning and nearly half of those had eaten lead fishing sinkers. Lead sinkers are banned in Great Britain and the Environmental Protection Agency is investigating whether or not they should be banned in the U.S.

SPOTTED OWLS, More Trouble for

Near the beginning of this century, the barred owl began moving west across the Canadian Prairie provinces. It was first recorded in British Columbia in the -40s, although a few may have arrived earlier. The spotted owl, on the other hand, has been known as an uncommon resident in south coastal British Columbia since the first bird records were kept.

David Dunbar and his colleagues reported the results of a survey that found spotted owls at 14 sites and barred owls at 57 sites. They estimate that the population of spotted owls in the province is no more than 100 pairs and hypothesize that the species is declining because of habitat loss and competition with barred owls.

Bird watchers have wondered for a decade what would happen to spotted owls when barred owls invaded the Pacific Northwest; Can the spotted owl, already declining precipitously because of habitat loss, absorb another assault? The exact relation between barred and spotted owls is not known but this study suggests it is a problem that needs investigation.

WHOOPIING CRANES & DRAUGHT

The effort to save the whooping crane has progressed very well and there is considerable reason for optimism. The breeding population around Wood Buffalo National Park in Canada has been growing steadily. From 1984 to 1989 about 19 per year were recorded. In 1990 and 1991, however, production has dropped off sharply, down to a low of eight young. The cause: A drought that lowered water

CONSERVING ENERGY CREATES JOBS

By Marte Lee

Conserving energy in the U.S. could lead to 290,000 new jobs by 1995 and a million new jobs by 2010, according to a report released by the American Council for an Energy Efficient Economy. The report, "Energy Efficiency and Job Creation," says that saving on energy costs through improved manufacturing technologies will leave more spending money for businesses and consumers to stimulate economy and create jobs in industries such as construction, retail trade and services. For a copy of the report send \$10.00 to American Council for an energy efficient Economy, 1001 Connecticut Av N.W., Suite 801, Washington, DC 20036.

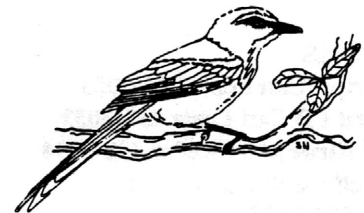
Note: I Wish I had the \$9,000 puffed out by inefficient appliances, a.c., inadequate insulation and ductwork in disrepair. If any of you have not had an energy audit yet, please do so. Call your local Power Company. Its free if you're with FPL.

Schwarzkopf Joins Environmental Ranks

Gen. H. Norman Schwarzkopf, hero of the Persian Gulf War, has joined the battle for the preservation of America's wilds. He has joined the Nature Conservancy, an organization supported by H.R.A.S. and of which one of its founders was our Dr. Walter H. Boardman. The Nature Conservancy is an organization that protects environmentally endangered lands.

Schwarzkopf said that he admired the Conservancy for its methodology, i.e. not using political means to achieve its goals, "it acquires and maintains property it deems ecologically important."

Most of the organizations properties are open to the public and many have camping facilities.



PREVENT INJURIES TO WILDLIFE

From Florida Raptor News via The Duval Observer, June -93

1. Don't cut down dead trees unless absolutely necessary! Always check a tree for nest cavities before you prune or cut it down. If you must remove it, wait for the fall or winter months.
2. When you go on picnics, be careful of what you leave behind. Plastic six-pack holders can be deadly. Always cut the rings before you dispose of them. Never Litter! Wildlife can not tell the difference between litter and food.

out of the way. Slow down around corners in remote areas since this is where road kills often occur.

6. Baby birds do not always need to be rescued! If you should find one that has fallen out of the nest, the best thing to do is put the bird back. The parent birds will continue to take care of it even if you have touched it. If the nest is too high or has been destroyed, simply substitute a berry or shoe box. Line it with soft

By Marte Lee

Environmental Ranks

As scanned from

The BWD SKIMMER

COMMON LOONS AND LEAD

More than half the 77 Common Loons found dead near lakes in New England died of lead poisoning and nearly half of those had eaten lead fishing sinkers. Lead sinkers are banned in Great Britain and the Environmental Protection Agency is investigating whether or not they should be banned in the U.S.

SPOTTED OWLS, More Trouble for

Near the beginning of this century, the barred owl began moving west across the Canadian Prairie provinces. It was first recorded in British Columbia in the -40s, although a few may have arrived earlier. The spotted owl, on the other hand, has been known as an uncommon resident in south coastal British Columbia since the first bird records were kept.

David Dunbar and his colleagues reported the results of a survey that found spotted owls at 14 sites and barred owls at 57 sites. They estimate that the population of spotted owls in the province is no more than 100 pairs and hypothesize that the species is declining because of habitat loss and competition with barred owls.

Bird watchers have wondered for a decade what would happen to spotted owls when barred owls invaded the Pacific Northwest; Can the spotted owl, already declining precipitously because of habitat loss, absorb another assault? The exact relation between barred and spotted owls is not known but this study suggests it is a problem that needs investigation.

WHOOPIING CRANES & DRAUGHT

The effort to save the whooping crane has progressed very well and there is considerable reason for optimism. The breeding population around Wood Buffalo National Park in Canada has been growing steadily. From 1984 to 1989 about 19 per year were recorded. In 1990 and 1991, however, production has dropped off sharply, down to a low of eight young. The cause: A drought that lowered water levels in the ponds where the cranes breed. The same thing happened in the early 1980s so recovery is expected..

The BWD SKIMMER is a newsletter offering an expanded version of the column "Quick Takes" in the BIRD WATCHER'S DIGEST. its intent is to sort through technical literature for information that is relevant to bird watchers and to put that information into perspective. It is published bi-monthly by BIRD WATCHERS DIGEST, P O Box 110, Marietta, Ohio,

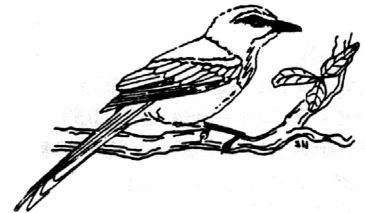
Conserving energy in the U.S. could lead to 290,000 new jobs by 1995 and a million new jobs by 2010, according to a report released by the American Council for an Energy Efficient Economy. The report, "Energy Efficiency and Job Creation," says that saving on energy costs through improved manufacturing technologies will leave more spending money for businesses and consumers to stimulate economy and create jobs in industries such as construction, retail trade and services. For a copy of the report send \$10.00 to American Council for an energy efficient Economy, 1001 Connecticut Av N.W., Suite 801, Washington, DC 20036.

Note: I Wish I had the \$9,000 puffed out by inefficient appliances, a.c., inadequate insulation and ductwork in disrepair. If any of you have not had an energy audit yet, please do so. Call your local Power Company. Its free if you're with FPL.

Gen. H. Norman Schwarzkopf, hero of the Persian Gulf War, has joined the battle for the preservation of America's wilds. He has joined the Nature Conservancy, an organization supported by H.R.A.S. and of which one of its founders was our Dr. Walter H. Boardman. The Nature Conservancy is an organization that protects environmentally endangered lands.

Schwarzkopf said that he admired the Conservancy for its methodology, i.e. not using political means to achieve its goals, "it acquires and maintains property it deems ecologically important."

Most of the organizations properties are open to the public and many have camping facilities.



PREVENT INJURIES TO WILDLIFE

From Florida Raptor News via The Duval Observer, June -93

1. Don't cut down dead trees unless absolutely necessary! Always check a tree for nest cavities before you prune or cut it down. If you must remove it, wait for the fall or winter months.
2. When you go on picnics, be careful of what you leave behind. Plastic six-pack holders can be deadly. Always cut the rings before you dispose of them. Never Litter! Wildlife can not tell the difference between litter and food.
3. Don't feed wildlife! Human food does not always provide the same nutrients that are necessary for wildlife. Animals may become dependent on humans for food..
4. Fisherman Beware! It is vitally important for fisherman not to leave monofilament line behind. They should always take discarded line with them and even remove discarded line they may find.

5. When you are driving, slow down around road kills to allow vultures and

out of the way. Slow down around corners in remote areas since this is where road kills often occur.

6. Baby birds do not always need to be rescued! If you should find one that has fallen out of the nest, the best thing to do is put the bird back. The parent birds will continue to take care of it even if you have touched it. If the nest is too high or has been destroyed, simply substitute a berry or shoe box. Line it with soft grasses or pine straw and anchor it securely high in a nearby tree. Make sure the new "nest" has drainage holes. Only after several hours have passed with no sign of the adult should you assume the baby has been abandoned.
7. Keep dogs and cats under control as they cause problems for wildlife families.

8. Limit the use of pesticides. Instead of using dangerous chemicals to kill insect pests, rely on solutions of harmless products like hot peppers or pure soaps that

H R A S OFFICERS

AUDUBON ADVENTURES



President

Robert L. "Roy" Stevenson
112 Oak Lane, Orm Bch, 32174
Ph 673-1838

1st Vice President

John J. Williams
717 N Peninsula Dr Day Bch 32118
Ph 255-8631

2nd Vice President

Angelo Cerrito
6065 Hensel Rd Prt Orange 32127
Ph 767-5397

Treasurer

Vivian F. Smith
542 S Lanvale Av Day Bch 32114
Ph 253-3815

Recording Secretary

Marie L. Oglesby
1173 Houdyshell Rd Sou Day 32119
Ph 767-5553

Membership Secretary

Audrey Christie
1333 Margina Av Sou Day 32119
Ph 255-7253

Historian

Harold J Nett
3 Sunny Shore Dr Orm Bch 32176
Ph 441-5584

Members at Large

Wilburn "Bill" Francis
Ph 672-6897
Carl J Lentz
Ph 252-5053
Carlton M Smith
Ph 253-3815

HOT LINES

Field Trips Carl Lentz 252-5053
New Bird I D Carl Lentz 252-5053
Injured Birds Mary Keller 252-2794
Bird Welfare Roy Stevenson
673-1838
News Letter, Editor or Distribution
Carlton Smith 253-3815
Rare Bird Alert - Volunteer Needed

The future of this world will someday be in the hands of those who are now children. The Audubon Society, National, State and Local, thinks that the best time to get these children "Environmental Conscious" is now and that the best way to do this is through the **AUDUBON ADVENTURES** program.

In this program, aimed at fifth grade students, each sponsored classroom receives enough bimonthly newsletters for at least one per student. The teacher is furnished a teacher's guide, lesson plan and instructional materials for that particular issue of the newsletter. The cost per classroom per school term is only \$30. We are trying to support this program through voluntary contributions. If you think this program is worth continuing,, and we hope you do, send, your check to Vivian Smith, treasurer, 542 S. Lanvale Ave. Daytona Beach FL 32114. (Mark for Audubon Adventures.) **DONATIONS BADLY NEEDED, NOW!**

GEORGE MARKS ELEMENTARY SCHOOL *I want to thank you once again for your generous contribution which made it possible for my students here at George Marks to become involved in the Audubon Adventure program. You have been a needed support for us and have helped to educate the future of tomorrow. I applaud you as caring citizens and very thoughtful (people).*

Sincerely, Lisa M. Shuffle, teacher

SOUTH DAYTONA ELEMENTARY SCHOOL *Audubon Adventures is very good., I enjoyed it. In my class room we are hatching butterflies. They made their cocoon and hang from the top of the jar. The days went on and one of the cocoons hatched. Now we have one butterfly and three cocoons.*

Sincerely yours, Holly Harrington, Student

MEMBERSHIP APPLICATION

Three-way membership, includes

H.R.A.S., Fla. Audubon Society and National Audubon Society
Please select your category

_____ Individual \$35. _____ Family \$38. _____ Student \$20.

_____ Senior Individual \$21. _____ Senior Family \$23.

**Make check payable to Halifax River Audubon Society and mail to
Mrs. Audrey Christie, Membership Secretary
1333 Margina Av, South Daytona, FL 32119**

Name Phone

Address

City State Zip

Publishers Notice - The Board of Directors voted, at its March meeting, to continue "The PELICAN" publication year- round with summer publication to be every other month. The next issue of The Pelican will be for Aug./Sept.. Our first membership meeting for the 93-94 season should be the third Monday in October.

John J. Williams

717 N Peninsula Dr Day Bch 32118
Ph 255-8631

2nd Vice President
Angelo Cerrito

6065 Hensel Rd Prt Orange 32127
Ph 767-5397

Treasurer
Vivian F. Smith

542 S Lanvale Av Day Bch 32114
Ph 253-3815

Recording Secretary
Marie L. Oglesby
1173 Houdyshell Rd Sou Day 32119
Ph 767-5553

Membership Secretary
Audrey Christie
1333 Margina Av Sou Day 32119
Ph 255-7253

Historian
Harold J Nett
3 Sunny Shore Dr Orm Bch 32176
Ph 441-5584

Members at Large
Wilburn "Bill" Francis
Ph 672-6897
Carl J Lentz
Ph 252-5053
Carlton M Smith
Ph 253-3815

HOT LINES
Field Trips Carl Lentz 252-5053
New Bird I D Carl Lentz 252-5053
Injured Birds Mary Keller 252-2794
Bird Welfare Roy Stevenson
673-1838
News Letter, Editor or Distribution
Carlton Smith 253-3815
Rare Bird Alert - Volunteer Needed

in this program, aimed at fifth grade students, each sponsored classroom receives enough bimonthly newsletters for at least one per student. The teacher is furnished a teacher's guide, lesson plan and instructional materials for that particular issue of the newsletter. The cost per classroom per school term is only \$30. We are trying to support this program through voluntary contributions. If you think this program is worth continuing, and we hope you do, send your check to Vivian Smith, treasurer, 542 S. Lanvale Ave. Daytona Beach FL 32114. (Mark for Audubon Adventures.) **DONATIONS BADLY NEEDED, NOW!**

GEORGE MARKS ELEMENTARY SCHOOL I want to thank you once again for your generous contribution which made it possible for my students here at George Marks to become involved in the Audubon Adventure program. You have been a needed support for us and have helped to educate the future of tomorrow. I applaud you as caring citizens and very thoughtful (people).

Sincerely, Lisa M. Shuffle, teacher

SOUTH DAYTONA ELEMENTARY SCHOOL Audubon Adventures is very good., I enjoyed it. In my class room we are hatching butterflies. They made their cocoon and hang from the top of the jar. The days went on and one of the cocoons hatched. Now we have one butterfly and three cocoons.

Sincerely yours, Holly Harrington, Student

MEMBERSHIP APPLICATION

Three-way membership, includes
H.R.A.S., Fla. Audubon Society and National Audubon Society
Please select your category

_____ Individual \$35. _____ Family \$38. _____ Student \$20.

_____ Senior Individual \$21. _____ Senior Family \$23.

Make check payable to Halifax River Audubon Society and mail to
Mrs. Audrey Christie, Membership Secretary
1333 Margina Av, South Daytona, FL 32119

Name Phone

Address

City State Zip

Publishers Notice - The Board of Directors voted, at its March meeting, to continue "The PELICAN" publication year- round with summer publication to be every other month. The next issue of The Pelican will be for Aug./Sept.. Our first membership meeting for the 93-94 season should be the third Monday in October.

Halifax River Audubon Soc., Inc
Carlton M Smith - Editor
542 S Lanvale Av
Daytona Bch FL 32114-3943

**Address Correction
Requested**

NON. PROFIT ORG.
Bulk Rate
U S Postage
PAID
Permit No. 395
Daytona Beach FL

JOHN J WILLIAMS
717 N PENINSULA DR
DayBch FL 32118

The PELICAN

Newsletter of Halifax River Audubon Society

August/September 1993

BIRD NOTES

Edited from an article by Molly Murray in an unknown Delaware paper, sent in by HAROLD NETT.

DEL. STOP A BIRDERS TERN-ON

The whiskered tern, as far as anyone knows, had been a bird never before sighted in North America. But, on July 11th, this year, one showed up at Cape May N.J. according to Andrew Ednie of Claymont, Del. "It was such an oddity, I had to go to a book and look that one up," he said. Within three days, hundreds of birders showed up at Cape May but the bird did not show there again..

The whiskered tern is a marsh feeder. Ednie figured that it was headed for Delaware where the impoundment and marshes between Bombay Hook and Kits Hummock make perfect habitat. He was right, but it took several tries to see the bird. The tern was first spotted at the Ted Harvey impoundment July 19.

Lucy Miller from Long Island NY and her husband added two days to a birding trip to NC to see the bird. They reached the impoundment about 7:30 AM just as a group of birders reported a sighting. Miller knew what she was looking for. "It's a tern that likes marshes," she said. "It's going to have a dark belly, a black cap with a band of white just below that ." With the band of white "it looks like it has whiskers."

That it took eight hours for it to reappear meant nothing to the birders. All of a sudden - "That's the most beautiful bird I've ever seen," called Miller as she sighted the bird.. She beamed with excitement. Everyone else was a little giddy too.

Now birders from as far away as California are flocking to Delaware to see the tern. And they are getting lots of action for their trouble. Not only are many seeing the whiskered tern, they are sighting unusual white-winged and black terns as well.

Three other birds uncommon in Delaware have been spotted: a curlew sandpiper with full breeding plumage, an immature white ibis and an immature

Enhancing and Streamlining Environmental Protection

A Report on Environmental Actions by the 1993 State Legislature from the newsletter of Representative Jimmy Charles

Under legislation passed this session, the Departments of Environmental Regulation (DER) and Natural Resources (DNR) will be merged into one agency, the Department of Environmental Protection (DEP). The merger will streamline environmental protection by reducing the overlapping jurisdictions that resulted in duplication of efforts by the two agencies.

The DEP will be headed by a secretary appointed by the Governor and approved by the Senate and the Cabinet. During the next year, the secretary will make recommendations to the Governor and legislature for further program modifications to increase the agency's efficiency. The possible transfer of the marine- resource functions (Florida Marine Patrol, Marine Resources and also the Marine Fisheries Commission) of the former DNR agency will also be addressed..

Other Environmental issues addressed this session were:

- **PRESERVATION 2000:** The legislature funded the fourth year of the program, and \$300 million will be used to purchase environmentally sensitive lands.

- **MANGROVES:** A new statewide standard for mangrove trimming was adopted that will allow some flexibility for property owners.

- **RECYCLING:** A Recycling Markets Advisory Committee was established to create plans for the development new markets and expand and enhance existing markets for recovered materials. Provisions for the Advanced Disposal Fee (ADF) and statewide titter programs are included. The legislation mandates that a 1-cent ADF fee be collected at the wholesale rather than the retail level.

- **HAZARDOUS WASTE:** an 18 month moratorium was placed on the construction of hazardous waste incinerators. During this period, the State will evaluate the need for these incinerators and study

Legislation prohibiting hazardous or radioactive waste from being disposed of through an injection well or other subsurface method addresses state and federal concerns about the safety of Florida's drinking water.

- **VESSEL DUI:** The blood alcohol level that constitutes unlawful operation of a vessel was lowered from .10 to .08. Sentencing guidelines were revised for those convicted of operating a vessel under the influence of alcohol, chemical or controlled substances from a first-degree misdemeanor to a third degree-felony.

- **MANATEE PROTECTION:** Boating penalties were modified to protect these endangered marine mammals. Certain violations in restricted areas are now considered a violation of the state's boating law and are punishable by a \$50 civil penalty (up from \$35).

- **MARINE FISHERIES COMMISSION:** The commission was saved from "sunset" repeal and will remain intact until 1994 when it will again come up for legislative review. During the next year, the commission will conduct a Net Ban Compensation study that will examine the impact of a netfishing band in inshore and nearshore waters.

- **"GREENWAYS"/RODMAN DAM:** Boundaries have been established for the Cross Florida Greenway State Recreation and Conservation Area which will be developed along the now-defunct Cross Florida Barge Canal. The legislation promotes the development of a wide variety of recreational activities along the 100-mile-long corridor of woodlands, rivers and lakes that connects the Gulf of Mexico and the St. John's River. The locks and dam that creates the Rodman Reservoir remain intact, but a study will examine the hydrological, biological, environmental and economic impacts of restoring the Oklawaha River retaining the

DEL. STOP A BIRDERS TERN-ON

The whiskered tern, as far as anyone knows, had been a bird never before sighted in North America. But, on July 11th, this year, one showed up at Cape May N.J. according to Andrew Ednie of Claymont, Del. "It was such an oddity, I had to go to a book and look that one up," he said. Within three days, hundreds of birders showed up at Cape May but the bird did not show there again..

The whiskered tern is a marsh feeder. Ednie figured that it was headed for Delaware where the impoundment and marshes between Bombay Hook and Kits Hummock make perfect habitat. He was right, but it took several tries to see the bird. The tern was first spotted at the Ted Harvey impoundment July 19.

Lucy Miller from Long Island NY and her husband added two days to a birding trip to NC to see the bird. They reached the impoundment about 7:30 AM just as a group of birders reported a sighting. Miller knew what she was looking for. "It's a tern that likes marshes," she said. "It's going to have a dark belly, a black cap with a band of white just below that ." With the band of white "it looks like it has whiskers."

That it took eight hours for it to reappear meant nothing to the birders. All of a sudden - "That's the most beautiful bird I've ever seen," called Miller as she sighted the bird.. She beamed with excitement. Everyone else was a little giddy too.

Now birders from as far away as California are flocking to Delaware to see the tern. And they are getting lots of action for their trouble. Not only are many seeing the whiskered tern, they are sighting unusual white-winged and black terns as well.

Three other birds uncommon in Delaware have been spotted: a curlew sandpiper with full breeding plumage, an immature white ibis and an immature scissor-tailed flycatcher.

No one knows why the birds are showing up here, though there are many guesses. "Most birders don't worry why they are here," said Ednie, "It's just unheard of to get a whiskered tern, let alone everything else."

Precisely at 3:30 PM, just as the tide started flooding the marshes, a lone whiskered tern floated along the tree line. "There it is!" someone shouted. and dozens of spotting scopes moved in unison across the horizon. That's Birding at its best and birders are wonderful folks.

Under legislation passed this session, the Departments of Environmental Regulation (DER) and Natural Resources (DNR) will be merged into one agency, the Department of Environmental Protection (DEP). The merger will streamline environmental protection by reducing the overlapping jurisdictions that resulted in duplication of efforts by the two agencies.

The DEP will be headed by a secretary appointed by the Governor and approved by the Senate and the Cabinet. During the next year, the secretary will make recommendations to the Governor and legislature for further program modifications to increase the agency's efficiency. The possible transfer of the marine- resource functions (Florida Marine Patrol, Marine Resources and also the Marine Fisheries Commission) of the former DNR agency will also be addressed..

Other Environmental issues addressed this session were:

- **PRESERVATION 2000:** The legislature funded the fourth year of the program, and \$300 million will be used to purchase environmentally sensitive lands.

- **MANGROVES:** A new statewide standard for mangrove trimming was adopted that will allow some flexibility for property owners.

- **RECYCLING:** A Recycling Markets Advisory Committee was established to create plans for the development new markets and expand and enhance existing markets for recovered materials. Provisions for the Advanced Disposal Fee (ADF) and statewide titter programs are included. The legislation mandates that a 1-cent ADF fee be collected at the wholesale rather than the retail level.

- **HAZARDOUS WASTE:** an 18 month moratorium was placed on the construction of hazardous waste incinerators. During this period, the State will evaluate the need for these incinerators and study the environmental impact of incineration.

Legislation prohibiting hazardous or radioactive waste from being disposed of through an injection well or other subsurface method addresses state and federal concerns about the safety of Florida's drinking water.

- **VESSEL DUI:** The blood alcohol level that constitutes unlawful operation of a vessel was lowered from .10 to .08. Sentencing guidelines were revised for those convicted of operating a vessel under the influence of alcohol, chemical or controlled substances from a first-degree misdemeanor to a third degree-felony.

- **MANATEE PROTECTION:** Boating penalties were modified to protect these endangered marine mammals. Certain violations in restricted areas are now considered a violation of the state's boating law and are punishable by a \$50 civil penalty (up from \$35).

- **MARINE FISHERIES COMMISSION:** The commission was saved from "sunset" repeal and will remain intact until 1994 when it will again come up for legislative review. During the next year, the commission will conduct a Net Ban Compensation study that will examine the impact of a netfishing band in inshore and nearshore waters.

- **"GREENWAYS"/RODMAN DAM:** Boundaries have been established for the Cross Florida Greenway State Recreation and Conservation Area which will be developed along the now-defunct Cross Florida Barge Canal. The legislation promotes the development of a wide variety of recreational activities along the 100-mile-long corridor of woodlands, rivers and lakes that connects the Gulf of Mexico and the St. John's River. The locks and dam that creates the Rodman Reservoir remain intact, but a study will examine the hydrological, biological, environmental and economic impacts of restoring the Oklawaha River, retaining the reservoir or a combination of the two.

DECEASED BIRDS PROVIDE VALUABLE INFO

The FAS Center for Birds of Prey cares for injured Eagles, Hawks, falcons, owls, kites and vultures. Some 43% of these are released back to the wild. Many permanently injured are placed in other facilities where they are well cared for. Unfortunately mortality is a common occurrence.

Even in death interest in these birds do not stop. When endangered species die, federal law requires their remains be sent to the National Wildlife Health Research Center where a necropsy is performed to determine the cause of death. Birds of prey are constantly facing danger of poisoning. In these cases Fla. G & F W Fish Comm. use this info to try to find the source and prevent other injuries to birds and animals.

H R A S OFFICERS



President

Robert L. "Roy" Stevenson
112 Oak Lane, Orm Bch, 32174
Ph 673-1838

1st Vice President

John J. Williams
717 N Peninsula Dr Day Bch 32118
Ph 255-8631

2nd Vice President

Angelo Cerrito
6065 Hensel Rd Prt Orange 32127
Ph 767-5397

Treasurer

Vivian F. Smith
542 S Lanvale Av Day Bch 32114
Ph 253-3815

Recording Secretary

Marie L. Oglesby
1173 Houdyshell Rd DayBch 32119
Ph 767-5553

Membership Secretary

Audrey Christie
1333 Margina Av DayBch 32114
Ph 255-7253

Historian

Harold J Nett
3 Sunny Shore Dr Orm Bch 32176
Ph 441-5584

Members at Large

Wilburn "Bill" Francis
Ph 672-6897
Carl J Lentz
Ph 252-5053
Carlton M Smith
Ph 253-3815

HOT LINES

Conservation Chair

David Hartgrove
Ph 788-2630

Field Trips Carl Lentz 252-5053

New Bird I D Carl Lentz 252-5053

Injured Birds Mary Keller 252-2794

Bird Welfare Roy Stevenson
673-1838

LETTERS FROM STUDENTS, 1992-93 SCHOOL YEAR

Dear Ms. Koch,

Thank you for donating your wonderful magazine, Audubon Adventures. We all appreciate it. I admire that you go and see how many birds are extinct. I like the way the magazines describe the wildlife. I really like the one about the butterflies which tells us alot of information.

Sincerely, Natasha Leung

Dear Ms Koch,

Thank you for donating Audubon Adventures. It tells me a lot about nature. I especially like the issues about spiders.

Sincerely, Jason Frost

Dear Ms Koch

Thank you for providing the Audubon Adventures for our class. We really enjoy it. I really want you to know that the class learned lots of things about birds, butterflies, and diffrent kinds of different animals,

Sincerely yours, Yvonne Fernandes

**YOUR CHECK FOR \$30 WILL PROVIDE ADVENTURES
TO ANOTHER CLASSROOM FOR THE TERM 1993-94
YOUR HELP NEEDED - WE ARE STILL \$370 SHORT!**

MEMBERSHIP APPLICATION

Three-way membership, includes

H.R.A.S., Fla. Audubon Society and National Audubon Society

Please select your category

____ Individual \$35. ____ Family \$38. ____ Student \$20.

____ Senior Individual \$21. ____ Senior Family \$23.

Make check payable to National Audubon Society and mail to

Mrs. Audrey Christie, Membership Secretary

1333 Margina Av, Daytona Beach, FL 32119

Name

Phone

Address

NOTICE: This is the last issue of THE PELICAN until the October issue. Board of Directors please note that the first board meeting will be October 4th. Contact the president for time and place. **ALL MEMBERS NOTE:** The first membership meeting of the 1993-94 season will be at 7:00 PM, Monday, October 18 at Seabreeze United Church, 501 N. Wild Olive Av., Daytona Beach. We should all plan now to get the season started right with a large turn-out that night. Please try to reserve the third Monday evening of each month, October through March for Audubon. Our environmental welfare needs and deserves the attention of us all.

717 N Peninsula Dr Day Bch 32118
Ph 255-8631

2nd Vice President
Angelo Cerrito
6065 Hensel Rd Prt Orange 32127
Ph 767-5397

Treasurer
Vivian F. Smith
542 S Lanvale Av Day Bch 32114
Ph 253-3815

Recording Secretary
Marie L. Oglesby
1173 Houdyshell Rd DayBch 32119
Ph 767-5553

Membership Secretary
Audrey Christie
1333 Margina Av DayBch 32114
Ph 255-7253

Historian
Harold J Nett
3 Sunny Shore Dr Orm Bch 32176
Ph 441-5584

Members at Large
Wilburn "Bill" Francis
Ph 672-6897
Carl J Lentz
Ph 252-5053
Carlton M Smith
Ph 253-3815

HOT LINES

Conservation Chair
David Hartgrove
Ph 788-2630

Field Trips Carl Lentz 252-5053
New Bird I D Carl Lentz 252-5053
Injured Birds Mary Keller 252-2794
Bird Welfare Roy Stevenson
673-1838

*the wildlife. I really like the one about the butterflies which tells us
alot of information.*

Sincerely, Natasha Leung

Dear Ms Koch,

*Thank you for donating Audubon Adventures. It tells me a lot
about nature. I especially like the issues about spiders.*

Sincerely, Jason Frost

Dear Ms Koch

*Thank you for providing the Audubon Adventures for our class. We
really enjoy it. I really want you to know that the class learned lots
of things about birds, butterflies, and diffrent kinds of different
animals,*

Sincerely yours, Yvonne Fernandes

**YOUR CHECK FOR \$30 WILL PROVIDE ADVENTURES
TO ANOTHER CLASSROOM FOR THE TERM 1993-94
YOUR HELP NEEDED - WE ARE STILL \$370 SHORT!**

MEMBERSHIP APPLICATION

Three-way membership, includes

H.R.A.S., Fla. Audubon Society and National Audubon Society
Please select your category

_____ Individual \$35. _____ Family \$38. _____ Student \$20.

_____ Senior Individual \$21. _____ Senior Family \$23.

Make check payable to National Audubon Society and mail to
Mrs. Audrey Christie, Membership Secretary
1333 Margina Av, Daytona Beach, FL 32119

Name

Phone

Address

NOTICE: This is the last issue of THE PELICAN until the October issue. Board of Directors please note that the first board meeting will be October 4th. Contact the president for time and place. **ALL MEMBERS NOTE:** The first membership meeting of the 1993-94 season will be at 7:00 PM, Monday, October 18 at Seabreeze United Church, 501 N. Wild Olive Av., Daytona Beach. We should all plan now to get the season started right with a large turn-out that night. Please try to reserve the third Monday evening of each month, October through March for Audubon. Our environmental welfare needs and deserves the attention of us all.

Halifax River Audubon Soc., Inc
Carlton M Smith - Editor
542 S Lanvale Av
Daytona Bch FL 32114-3943

**Address Correction
Requested**

NON. PROFIT ORG.
Bulk Rate
U S Postage
PAID
Permit No. 395
Daytona Beach FL

JOHN J WILLIAMS
717 N PENINSULA DR
DayBch FL 32118

The PELICAN

SPECIAL EDITION

September 1993

A publication of the Halifax River Audubon Society

FALL FIELD TRIP SCHEDULE

Carl Lentz, our field trip director, has announced the following outings for the first half of our 1993-94 season. The primary purpose of these trips is to provide experience in the identification of our local and migratory birds.

Trips will leave at 8:00 A.M. on the dates listed from the parking area at the east end of the Courthouse Annex, City Island, Daytona Beach. Cars not needed for the trip may be parked at the starting point. Those who do not drive their own cars are given the opportunity to share the cost of transportation with those whose cars are used. The suggested contribution is \$4.00.

Picnic lunch and beverages should be brought as stores or restaurants are not near to the picnic area. Rest stops will be made as appropriate.

Trips currently scheduled are as follows:

■ Friday, Oct. 22nd - David Hartgrove has kindly volunteered to lead the first trip of this season. He will most likely take us to the same Deland area as last year where the birding is excellent and the walking is pleasant and safe. It will be better this year as he promises to bring his owl tape.

■ Friday., Nov. 12th - Mary

provides a good count of rails, limpkins and Grebes. Some ducks should have arrived by this date.

■ Friday., Dec. 3rd - We will take a new trip this year to Salt Springs in the Ocala National Forest with the special mission of sighting a Red Cockaded Woodpecker. There may be a lot of waiting so if you don't want to sit on the ground, bring a light stool. We will also visit Juniper Springs. Recommend that Senior Citizens obtain a Golden Age Passport from a National Park Service location to save 50% of entrance fee at National Parks.

This trip will combine flora and fauna. Mr. Arthur Hyland has invited us to Bromeli Art Gardens to see how Bromeliads are propagated and grown for the beauty of their foliage and flowers. Then we will do our annual search for Sandhill Cranes followed by a visit to Blue Spring Park to see the Manatees.

■ Saturday, Dec., 18th - Our most pleasant and productive trip is being saved as a Christmas present to ourselves. We will visit Black Point Wildlife Drive which is an easy trip and a delight for birding.

Happy birding, Carl Lentz

FPL ENERGY EXPO

H.R.A.S. will have a booth

Fla. Power and Light Co. will sponsor an energy exposition at the Volusia Mall Saturday Sept. 11. The show will last all day and will consist of energy saving ideas and services by FPL plus booths by conservation organizations and others.

Halifax River Audubon Society has been asked to participate and will man **booth number 28**.

Dave Hartgrove, Chairman of the HRAS Conservation Committee, has announced that the signs for the "Save Our Pelicans" program are ready for installation and will be on display.

Glade Koch, Chairperson of the "Audubon Adventures" program will have a display reference that program and will feature some of the letters received from participating teachers and students.

Copies of this newsletter with the membership application, an invitation to join us printed thereon, will also be available for

September 1993

A publication of the Halifax River Audubon Society

FALL FIELD TRIP SCHEDULE

Carl Lentz, our field trip director, has announced the following outings for the first half of our 1993-94 season. The primary purpose of these trips is to provide experience in the identification of our local and migratory birds.

Trips will leave at 8:00 A.M. on the dates listed from the parking area at the east end of the Courthouse Annex, City Island, Daytona Beach. Cars not needed for the trip may be parked at the starting point. Those who do not drive their own cars are given the opportunity to share the cost of transportation with those whose cars are used. The suggested contribution is \$4.00.

Picnic lunch and beverages should be brought as stores or restaurants are not near to the picnic area. Rest stops will be made as appropriate.

Trips currently scheduled are as follows:

■ Friday, Oct. 22nd - David Hartgrove has kindly volunteered to lead the first trip of this season. He will most likely take us to the same Deland area as last year where the birding is excellent and the walking is pleasant and safe. It will be better this year as he promises to bring his owl tape.

■ Friday, Nov. 12th - Mary Lou Weiner has kindly agreed to again lead our Thanksgiving search for wild turkeys. As many turkeys have been seen this summer, this trip should compare to the one three years ago when many turkeys were counted

■ Saturday, Nov. 27th - To recover from Thanksgiving dinner, Carlton Smith will lead us on a pleasant and gentle walk at Lake Woodruff. Lake Woodruff always

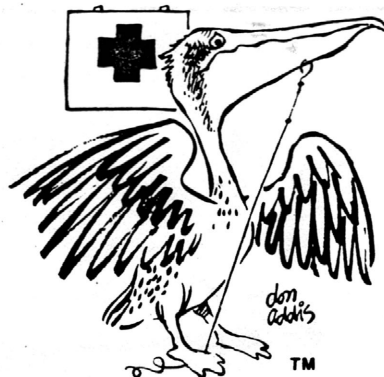
provides a good count of rails, limpkins and Grebes. Some ducks should have arrived by this date.

■ Friday, Dec. 3rd - We will take a new trip this year to Salt Springs in the Ocala National Forest with the special mission of sighting a Red Cockaded Woodpecker. There may be a lot of waiting so if you don't want to sit on the ground, bring a light stool. We will also visit Juniper Springs. Recommend that Senior Citizens obtain a Golden Age Passport from a National Park Service location to save 50% of entrance fee at National Parks.

This trip will combine flora and fauna. Mr. Arthur Hyland has invited us to Bromeli Art Gardens to see how Bromeliads are propagated and grown for the beauty of their foliage and flowers. Then we will do our annual search for Sandhill Cranes followed by a visit to Blue Spring Park to see the Manatees.

■ Saturday, Dec., 18th - Our most pleasant and productive trip is being saved as a Christmas present to ourselves. We will visit Black Point Wildlife Drive which is an easy trip and a delight for birding.

Happy birding, Carl Lentz



HELP !

FPL ENERGY EXPO

H.R.A.S. will have a booth

Fla. Power and Light Co. will sponsor an energy exposition at the Volusia Mall Saturday Sept. 11. The show will last all day and will consist of energy saving ideas and services by FPL plus booths by conservation organizations and others.

Halifax River Audubon Society has been asked to participate and will man **booth number 28**.

Dave Hartgrove, Chairman of the HRAS Conservation Committee, has announced that the signs for the "Save Our Pelicans" program are ready for installation and will be on display.

Glade Koch, Chairperson of the "Audubon Adventures" program will have a display reference that program and will feature some of the letters received from participating teachers and students.

Copies of this newsletter with the membership application, an invitation to join us printed thereon, will also be available for distribution.

Roy Stevenson, president of HRAS, has asked for other ideas that might be appropriate and for volunteer help in manning the booth. If you are willing to help, call him at 673-1838. He will much appreciate hearing from you.

When you call Roy, ask about the Great Horned Owl he has seen more or less regularly this summer.

H R A S OFFICERS



President

Robert L. "Roy" Stevenson
112 Oak Lane, Orm Bch, 32174
Ph 673-1838

1st Vice President

John J. Williams
717 N Peninsula Dr Day Bch 32118
Ph 255-8631

2nd Vice President

Angelo Cerrito
6065 Hensel Rd Prt Orange 32127
Ph 767-5397

Treasurer

Vivian F. Smith
542 S Lanvale Av Day Bch 32114
Ph 253-3815

Recording Secretary

Marie L. Oglesby
1173 Houdyshell Rd DayBch 32119
Ph 767-5553

Membership Secretary

Audrey Christie
1333 Margina Av DayBch 32114
Ph 255-7253

Historian

Harold J Nett
3 Sunny Shore Dr Orm Bch 32176
Ph 441-5584

Members at Large

Wilburn "Bill" Francis
Ph 672-6897
Carl J Lentz
Ph 252-5053
Carlton M Smith
Ph 253-3815

HOT LINES

Conservation Chair

David Hartgrove
Ph 788-2630

Field Trips Carl Lentz 252-5053

New Bird I D Carl Lentz 252-5053

Injured Birds Mary Keller 252-2794

Bird Welfare Roy Stevenson
673-1838

The following note, along with the therein mentioned check, was recently received from one of our Life Members. Some of you will remember Thelma. She lived in the 100 block of N Oleander Ave. and was one of our early active birders. She was a member when the "Halifax River Bird Club" became the "Halifax River Audubon Society."

Dear Vivian-

Enclosed is a check for \$30.00 to help with Audubon Adventures.

Please note change of my address. Am now in a personal care unit as I fall easily and have vision in only one eye.

Best regards to all. I do miss going Bird Watching, as here I just keep seeing the same ones over and over.

Thelma Acosta

Wesley Manor K-7, 25 State Rd #13, Jacksonville FL 32259

**YOUR CHECK FOR \$30 WILL PROVIDE AUDUBON
ADVENTURES TO ANOTHER CLASSROOM FOR THE
1993-94 SCHOOL TERM
HELP IS STILL NEEDED !**

MEMBERSHIP APPLICATION

Three-way membership, includes

H.R.A.S., Fla. Audubon Society and National Audubon Society

Please select your category

_____ Individual \$35. _____ Family \$38. _____ Student \$20.

_____ Senior Individual \$21. _____ Senior Family \$23.

Make check payable to National Audubon Society and mail to

Mrs. Audrey Christie, Membership Secretary

1333 Margina Av, Daytona Beach, FL 32119

Name

Phone

Address

NOTICE: This Special Issue of THE PELICAN is being added due to the late breaking news of our Bird trips schedule and the FPL Energy Expo Exhibit. Both should be of special interest to our members

PLEASE NOTE: The first membership meeting of the 1993-94 season will be at 7:00 PM, Monday, October 18 at Seabreeze United Church, 501 N. Wild Olive Av., Daytona Beach. We should all plan now to get the season started right with a large turn-out that night. Please try to reserve the third Monday evening of each month, October through March for Audubon. Our environmental welfare needs and deserves the attention of us all.

2nd Vice President
Angelo Cerrito
6065 Hensel Rd Prt Orange 32127
Ph 767-5397

Treasurer
Vivian F. Smith
542 S Lanvale Av Day Bch 32114
Ph 253-3815

Recording Secretary
Marie L. Oglesby
1173 Houdyshell Rd DayBch 32119
Ph 767-5553

Membership Secretary
Audrey Christie
1333 Margina Av DayBch 32114
Ph 255-7253

Historian
Harold J Nett
3 Sunny Shore Dr Orm Bch 32176
Ph 441-5584

Members at Large
Wilburn "Bill" Francis
Ph 672-6897
Carl J Lentz
Ph 252-5053
Carlton M Smith
Ph 253-3815

HOT LINES

Conservation Chair
David Hartgrove
Ph 788-2630

Field Trips Carl Lentz 252-5053
New Bird I D Carl Lentz 252-5053
Injured Birds Mary Keller 252-2794
Bird Welfare Roy Stevenson
673-1838

Dear Vivian-

Enclosed is a check for \$30.00 to help with Audubon Adventures.

Please note change of my address. Am now in a personal care unit as I fall easily and have vision in only one eye.

Best regards to all. I do miss going Bird Watching, as here I just keep seeing the same ones over and over.

Thelma Acosta

Wesley Manor K-7, 25 State Rd #13, Jacksonville FL 32259

YOUR CHECK FOR \$30 WILL PROVIDE AUDUBON ADVENTURES TO ANOTHER CLASSROOM FOR THE 1993-94 SCHOOL TERM HELP IS STILL NEEDED !

MEMBERSHIP APPLICATION

Three-way membership, includes
H.R.A.S., Fla. Audubon Society and National Audubon Society
Please select your category

_____ Individual \$35. _____ Family \$38. _____ Student \$20.

_____ Senior Individual \$21. _____ Senior Family \$23.

Make check payable to National Audubon Society and mail to
Mrs. Audrey Christie, Membership Secretary
1333 Margina Av, Daytona Beach, FL 32119

Name

Phone

Address

NOTICE: This Special Issue of THE PELICAN is being added due to the late breaking news of our Bird trips schedule and the FPL Energy Expo Exhibit. Both should be of special interest to our members

PLEASE NOTE: The first membership meeting of the 1993-94 season will be at 7:00 PM, Monday, October 18 at Seabreeze United Church, 501 N. Wild Olive Av., Daytona Beach. We should all plan now to get the season started right with a large turn-out that night. Please try to reserve the third Monday evening of each month, October through March for Audubon. Our environmental welfare needs and deserves the attention of us all.

Halifax River Audubon Soc., Inc
Carlton M Smith - Editor
542 S Lanvale Av
Daytona Bch FL 32114-3943

**Address Correction
Requested**



NON. PROFIT ORG.
Bulk Rate
U S Postage
PAID
Permit No. 395
Daytona Beach FL

MRS AUDREY CHRISTIE
1333 MARGINA AV
DayBch FL 32114-5947

The PELICAN

Newsletter of Halifax River Audubon Society

November 1993

OFFICERS 1993-94

President

Robert L. "Roy" Stevenson
112 Oak Lane, Orm Bch, 32174
Ph 673-1838

1st Vice President

John J. Williams
717 N Peninsula Dr Day Bch 32118
Ph 255-8631

2nd Vice President

Angelo Cerrito
6065 Hensel Rd Prt Orange 32127
Ph 767-5397

Treasurer

Vivian F. Smith
542 S Lanvale Av Day Bch 32114
Ph 253-3815

Recording Secretary

Maric L. Oglesby
1173 Houdyshell Rd DayBch 32119
Ph 767-5553

Membership Secretary

Audrey Christie
1333 Margina Av DayBch 32114
Ph 255-7253

Historian

Harold J Nett
3 Sunny Shore Dr Orm Bch 32176
Ph 441-5584

Members at Large

Wilburn "Bill" Francis
Ph 672-6897

Carl J Lentz
Ph 252-5053

Carlton M Smith
Ph 253-3815

Conservation Chair

David Hartgrove
113 Centennial Ln DayBch 32119
Ph 788-2630

Education Chair

Glade Koch
128 Fiddlesticks Ln DayBch 32114
Ph 767-5137

FIELD TRIPS Revised Schedule

Field Trips for the balance of the 1993-94 HRAS season has been revised as follows.

■ Friday., Nov. 12th - Mary Lou Weiner has kindly agreed to again lead our Thanksgiving search for wild turkeys. Many turkeys have been seen this summer so this trip should compare favorably with the one three years ago when a good number of turkeys were counted

■ Saturday, Nov. 27th - To recover from Thanksgiving dinner, Carlton Smith will lead us on a pleasant and gentle walk at Lake Woodruff. Lake Woodruff always provides a good count of rails, limpkins and Grebes. Some ducks should have arrived by this date.

■ Friday., Dec. 3rd - This trip will combine flora and fauna. Mr. Arthur Hyland has invited us to Bromeli Art Gardens to see how Bromeliads are propagated and grown for the beauty of their foliage and flowers. Then we will do our annual search for Sandhill Cranes followed by a visit to Blue Spring Park to see the Manatees.

■ Saturday, Dec. 18th - Our most pleasant and productive trip is being saved as a Christmas present to ourselves. We will visit Black Point Wildlife Drive which is an easy trip and a delight for birding.

■ Friday Jan. 7th - This trip will take advantage of those hardy individuals who arose early and toiled late to take the Christmas

were here we found the piping plover.

■ Saturday, Feb. 12th - Barbara Samler of West Volusia Audubon Society has arranged a joint field trip with four Audubon Chapters at Lake Woodruff Refuge. We will have an excellent opportunity to meet other birders and to swap information on fine birding spots. Lake Woodruff should be at its peak with visiting birds.

■ Saturday, Feb. 19th - If road conditions permit, we will drive through Shiloh Marsh on our way to visit Black Point Drive again. This should be the height of the season for White Pelicans and ducks.

■ Friday, Mar. 4th - Eddie Williford, who knows all the secrets of the Wekiva River will guide us on a delightful canoe trip. It will be easy paddling and if this is too much, you may just go along for the ride. Eddie's personality and love of the river makes this a "Must" trip.

■ Saturday Mar. 19th - This trip will be a great circle trip to the south of Daytona Beach to favorite spots for both waders and perching birds.

■ Friday, Apr. 1st - We will take a new trip this year to Salt Springs with the special mission of sighting the Red Cockaded Woodpecker. There may be a lot of waiting so if you don't want to sit on the ground, bring a light stool. We will also visit Juniper Springs

1st Vice President

John J. Williams
717 N Peninsula Dr Day Bch 32118
Ph 255-8631

2nd Vice President

Angelo Cerrito
6065 Hensel Rd Prt Orange 32127
Ph 767-5397

Treasurer

Vivian F. Smith
542 S Lanvale Av Day Bch 32114
Ph 253-3815

Recording Secretary

Maric L. Oglesby
1173 Houdyshell Rd DayBch 32119
Ph 767-5553

Membership Secretary

Audrey Christie
1333 Margina Av DayBch 32114
Ph 255-7253

Historian

Harold J Nett
3 Sunny Shore Dr Orm Bch 32176
Ph 441-5584

Members at Large

Wilburn "Bill" Francis
Ph 672-6897

Carl J Lentz
Ph 252-5053

Carlton M Smith
Ph 253-3815

Conservation Chair

David Hartgrove
113 Centennial Ln DayBch 32119
Ph 788-2630

Education Chair

Glade Koch
128 Fiddlesticks Ln DayBch 32114
Ph 767-5437

Refreshments Chair

Lois Robinson
2596 W CoralWay DayBch 32118
Ph 760-8480

HOT LINES

Bird Welfare R Stevenson 673-1838
Bus. 252-0466

Field Trips Carl Lentz 252-5053

Injured Birds Mary Keller 252-2794

New Bird I D Carl Lentz 252-5053

News Letter Carlton Smith 253-3815

Field Trips for the balance of the 1993-94 HRAS season has been revised as follows.

■ Friday., Nov. 12th - Mary Lou Weiner has kindly agreed to again lead our Thanksgiving search for wild turkeys. Many turkeys have been seen this summer so this trip should compare favorably with the one three years ago when a good number of turkeys were counted

■ Saturday, Nov. 27th - To recover from Thanksgiving dinner, Carlton Smith will lead us on a pleasant and gentle walk at Lake Woodruff. Lake Woodruff always provides a good count of rails, limpkins and Grebes. Some ducks should have arrived by this date.

■ Friday., Dec. 3rd - This trip will combine flora and fauna. Mr. Arthur Hyland has invited us to Bromeli Art Gardens to see how Bromeliads are propagated and grown for the beauty of their foliage and flowers. Then we will do our annual search for Sandhill Cranes followed by a visit to Blue Spring Park to see the Manatees.

■ Saturday, Dec. 18th - Our most pleasant and productive trip is being saved as a Christmas present to ourselves. We will visit Black Point Wildlife Drive which is an easy trip and a delight for birding.

■ Friday Jan. 7th -This trip will take advantage of those hardy individuals who arose early and toiled late to take the Christmas Bird Count. We will visit the places where they saw the most or the most unusual species.

■ Saturday, Jan. 22nd - Since there are no beach tolls in January, we will drive along the beach to Ponce Inlet Park looking for sea birds. Then a gentle walk along the beach in the park looking for waders. The last time we

were here we found the piping plover.

■ Saturday, Feb. 12th - Barbara Samler of West Volusia Audubon Society has arranged a joint field trip with four Audubon Chapters at Lake Woodruff Refuge. We will have an excellent opportunity to meet other birders and to swap information on fine birding spots. Lake Woodruff should be at its peak with visiting birds.

■ Saturday, Feb. 19th - If road conditions permit, we will drive through Shiloh Marsh on our way to visit Black Point Drive again. This should be the height of the season for White Pelicans and ducks.

■ Friday, Mar. 4th - Eddie Williford, who knows all the secrets of the Wekiva River will guide us on a delightful canoe trip. It will be easy paddling and if this is too much, you may just go along for the ride. Eddie's personality and love of the river makes this a "Must" trip.

■ Saturday Mar. 19th - This trip will be a great circle trip to the south of Daytona Beach to favorite spots for both waders and perching birds.

■ Friday, Apr. 1st - We will take a new trip this year to Salt Springs with the special mission of sighting the Red Cockaded Woodpecker. There may be a lot of waiting so if you don't want to sit on the ground, bring a light stool. We will also visit Juniper Springs.

■ Saturday, Apr. 6th - Another "Must." Captain Hopkins takes us on a St. John's River cruise. Details later.

■ Saturday, May 7th - Our bi-annual visit to one of Florida's outstanding attractions, the Alligator Farm at St. Augustine. While the whole farm is a delight, the special attraction for birders is the nesting

RED COCKADED WOODPECKER of the Ocala National Forest

The Ocala has a small population of the endangered red-cockaded woodpecker. These elusive birds live in family groups, nesting in mature longleaf pine forests with widely spaced trees and a minimum of brushy midstory vegetation.

The red-cockaded woodpecker excavates cavities in the heartwood of living pine trees, which are generally over 90 years old and are suffering from heartwood disease. The cavities serve a dual purpose, for roosting and for nesting. These industrious small woodpeckers peck large shallow holes, called resin wells, in the bark around the cavity to make pine sap flow. The sticky sap discourages snakes from climbing the tree and eating the eggs or young. It takes a bird several months of hard work to make a suitable cavity. There are many factors which cause a shortage of cavities in some areas. These include a lack of old trees; competition for existing cavities with flying squirrels, red-bellied woodpeckers or other species; death of trees due to natural factors such as hurricanes or lightning; enlargement of cavities by competing species; and rot, which consumes the floor of the cavities.

The Ocala National Forest biologist installs artificial cavities in suitable trees located near established colonies. These artificial cavities are blocks of wood with eight-inch-long and three-inch-diameter cavities. A same size block of wood is cut from a large living pine tree and the insert is installed in its place.

The Forest Service goal is to provide a cavity for each red-cockaded woodpecker in the Ocala Forest's population. Whenever an active tree cavity is lost,



an artificial cavity is quickly installed in the colony. This provides shelter for birds which would otherwise have an outside roost for several months while making a cavity. Cavities are made for each young bird born into the population. Artificial cavity use has been high, with nearly half of Ocala's red cockaded woodpeckers roosting in these cavities. All young birds, almost all of the females, and a few breeding males use artificial cavities. Eggs have been laid in one artificial cavity. In November of 1990 a female red-cockaded woodpecker from Appalachian National Forest was introduced into the Ocala. An artificial cavity was a key element in the successful augmentation effort, providing the imported female with a suitable roost.

The artificial cavities do not discourage birds from making natural cavities. In all active colonies with artificial cavities, the birds have started new cavities and reworked old unfinished cavity starts. By installing the artificial cavities, we seem to be giving them the idea!

***We're giving
them
the idea!***

Ocala Forest Times



NOTICE! Our next membership meeting will be at 7:00 PM, Monday, November 15th at Seabreeze United Church, 501 N. Wild Olive Av., Daytona Beach. Though we will not be in Mosely Hall where we usually meet, we will meet upstairs over the office in the Youth Room. There will be guides on hand to point the way. Seabreeze Church will be having a dinner in Mosely Hall. **SPECIAL NOTE** - Lois Robinson has accepted the chairmanship of the Refreshments Committee and is due a great big **THANK YOU** from all of us. If she asks

The red-cockaded woodpecker excavates cavities in the heartwood of living pine trees, which are generally over 90 years old and are suffering from heartwood disease. The cavities serve a dual purpose, for roosting and for nesting. These industrious small woodpeckers peck large shallow holes, called resin wells, in the bark around the cavity to make pine sap flow. The sticky sap discourages snakes from climbing the tree and eating the eggs or young. It takes a bird several months of hard work to make a suitable cavity. There are many factors which cause a shortage of cavities in some areas. These include a lack of old trees; competition for existing cavities with flying squirrels, red-bellied woodpeckers or other species; death of trees due to natural factors such as hurricanes or lightning; enlargement of cavities by competing species; and rot, which consumes the floor of the cavities.

The Ocala National Forest biologist installs artificial cavities in suitable trees located near established colonies. These artificial cavities are blocks of wood with eight-inch-long and three-inch-diameter cavities. A same size block of wood is cut from a large living pine tree and the insert is installed in its place.

The Forest Service goal is to provide a cavity for each red-cockaded woodpecker in the Ocala Forest's population. Whenever an active tree cavity is lost,

females, and a few breeding males use artificial cavities. Eggs have been laid in one artificial cavity. In November of 1990 a female red-cockaded woodpecker from Appalachicola National Forest was introduced into the Ocala. An artificial cavity was a key element in the successful augmentation effort, providing the imported female with a suitable roost.

The artificial cavities do not discourage birds from making natural cavities. In all active colonies with artificial cavities, the birds have started new cavities and reworked old unfinished cavity starts. By installing the artificial cavities, we seem to be giving them the idea!



◊ Red-Cockaded Woodpecker ◊



**We're giving
them
the idea!**

Ocala Forest Times

NOTICE! Our next membership meeting will be at 7:00 PM, Monday, November 15th at Seabreeze United Church, 501 N. Wild Olive Av., Daytona Beach. Though we will not be in Mosely Hall where we usually meet, we will meet upstairs over the office in the Youth Room. There will be guides on hand to point the way. Seabreeze Church will be having a dinner in Mosely Hall. **SPECIAL NOTE** - Lois Robinson has accepted the chairmanship of the Refreshments Committee and is due a great big **THANK YOU** from all of us. If she asks

Halifax River Audubon Soc., Inc
Carlton M Smith - Editor
542 S Lanvale Av
Daytona Bch FL 32114-3943



**Address Correction
Requested**

NON. PROFIT ORG.
Bulk Rate
U S Postage
PAID
Permit No. 395
Daytona Beach FL

MRS AUDREY CHRISTIE
1333 MARGINA AV
DayBch FL 32114-5947

The PELICAN

Newsletter of Halifax River Audubon Society

DECEMBER 1993

OFFICERS 1993-94

President

Robert L. "Roy" Stevenson
112 Oak Lane, Orm Bch, 32174
Ph 673-1838

1st Vice President

John J. Williams
717 N Peninsula Dr Day Bch 32118
Ph 255-8631

2nd Vice President

Angelo Cerrito
6065 Hensel Rd Prt Orange 32127
Ph 767-5397

Treasurer

Vivian F. Smith
542 S Lanvale Av Day Bch 32114
Ph 253-3815

Recording Secretary

Marie L. Oglesby
1173 Houdyshell Rd DayBch 32119
Ph 767-5553

Membership Secretary

Audrey Christie
1333 Margina Av DayBch 32114
Ph 255-7253

Historian

Harold J Nett
3 Sunny Shore Dr Orm Bch 32176
Ph 441-5584

Members at Large

Wilburn "Bill" Francis
Ph 672-6897

Carl J Lentz
Ph 252-5053

Carlton M Smith
Ph 253-3815

Conservation Chair

David Hartgrove
113 Centennial Ln DayBch 32119
Ph 788-2630

Education Chair

Glade Koch
128 Fiddlesticks Ln DayBch 32114
Ph 673-8438

CHRISTMAS MENU FOR BIRDS IN FLORIDA

Weather in Florida is sometimes mild the year round. However, during winter cold spells birds need extra food. Stations to attract birds to our gardens, where they help control insects and consume weed seeds, provide the enjoyment of seeing them at close range.

The more food you put out, the more birds you will encourage. Water in a bird bath or a flat pan on the grass will also help.

The following is a list of suggested for foods for birds at feeding stations, with a list of the more common birds preferring the various feeds. Birds are generally classified as Seed-Eaters (vegetarians) and Suet and Fat-Eaters (Insectivorous). Sometimes those who normally eat seeds will eat insects and sometimes the insect eaters will eat seeds.

Chick scratch or developer scratch, which usually contains corn, wheat, kaffir, millet and milo is popular. Sunflower, cantaloupe, squash and watermelon are well liked. These mixtures are liked by Sparrows, Towhees, Quail, Doves, Cardinals, Woodpeckers, titmice and others.

Berries, raisins, small fruits, cut orange and apple are favorites of Mockingbirds, Catbirds, Warblers, Thrashers and Wood-



DON'T MISS THIS ! HALIFAX RIVER AUDUBON SOCIETY CHRISTMAS PARTY

You are invited to the Christmas Audubon Dinner Monday, December 20th at 6:00 PM at Seabreeze United Church, 501 N. Wild Olive Av., Daytona Beach. Please note change in time from our regular meeting.

The Society will provide the meat and beverages. Please bring a side dish (vegetable, salad or dessert) and your own plate and utensils.

The program will be a special treat - The Hawaiian Dancers.

Come, enjoy the fun and fellowship!

Place on the feeding tables stale bread, cake, doughnuts, and cookies; cereals that have become "Buggy," dry cereals, crackers and fat trimmed from uncooked steaks for even more guests.

Robert L. "Roy" Stevenson
112 Oak Lane, Orm Bch, 32174
Ph 673-1838

1st Vice President

John J. Williams
717 N Peninsula Dr Day Bch 32118
Ph 255-8631

2nd Vice President

Angelo Cerrito
6065 Hensel Rd Prt Orange 32127
Ph 767-5397

Treasurer

Vivian F. Smith
542 S Lanvale Av Day Bch 32114
Ph 253-3815

Recording Secretary

Marie L. Oglesby
1173 Houdyshell Rd DayBch 32119
Ph 767-5553

Membership Secretary

Audrey Christie
1333 Margina Av DayBch 32114
Ph 255-7253

Historian

Harold J Nett
3 Sunny Shore Dr Orm Bch 32176
Ph 441-5584

Members at Large

Wilburn "Bill" Francis
Ph 672-6897

Carl J Lentz
Ph 252-5053

Carlton M Smith
Ph 253-3815

Conservation Chair

David Hartgrove
113 Centennial Ln DayBch 32119
Ph 788-2630

Education Chair

Glade Koch
128 Fiddlesticks Ln DayBch 32114
Ph 523-8438

Refreshments Chair

Lois Robinson
2596 W CoralWay DayBch 32118
Ph 760-8480

HOT LINES

Bird Welfare R Stevenson 673-1838
Bus. 252-0466

Field Trips Carl Lentz 252-5053

Injured Birds Mary Keller 252-2794

New Bird I D Carl Lentz 252-5053

News Letter Carlton Smith 253-3815

FOR BIRDS IN FLORIDA

Weather in Florida is sometimes mild the year round. However, during winter cold spells birds need extra food. Stations to attract birds to our gardens, where they help control insects and consume weed seeds, provide the enjoyment of seeing them at close range.

The more food you put out, the more birds you will encourage. Water in a bird bath or a flat pan on the grass will also help.

The following is a list of suggested for foods for birds at feeding stations, with a list of the more common birds preferring the various feeds. Birds are generally classified as Seed-Eaters (vegetarians) and Suet and Fat-Eaters (Insectivorous). Sometimes those who normally eat seeds will eat insects and sometimes the insect eaters will eat seeds.

Chick scratch or developer scratch, which usually contains corn, wheat, kaffir, millet and milo is popular. Sunflower, cantaloupe, squash and watermelon are well liked. These mixtures are liked by Sparrows, Towhees, Quail, Doves, Cardinals, Woodpeckers, titmice and others.

Berries, raisins, small fruits, cut orange and apple are favorites of Mockingbirds, Catbirds, Warblers, Thrashers and Woodpeckers.

Suet, peanut butter, and nut meats are welcomed by Woodpeckers, Titmice, Chickadees, Kinglets and Bluejays.

Nectar, made of one part sugar and six parts water, put in a hummingbird feeder for them and in containers with a larger opening for Warblers, Tanagers and Orioles, will invite extra guests.



DON'T MISS THIS! HALIFAX RIVER AUDUBON SOCIETY CHRISTMAS PARTY

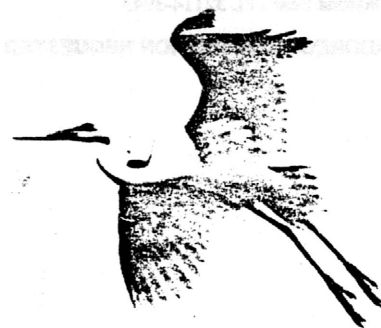
You are invited to the Christmas Audubon Dinner Monday, December 20th at 6:00 PM at Seabreeze United Church, 501 N. Wild Olive Av., Daytona Beach. Please note change in time from our regular meeting.

The Society will provide the meat and beverages. Please bring a side dish (vegetable, salad or dessert) and your own plate and utensils.

The program will be a special treat - The Hawaiian Dancers.

Come, enjoy the fun and fellowship!

Place on the feeding tables stale bread, cake, doughnuts, and cookies; cereals that have become "Buggy," dry cereals, crackers and fat trimmed from uncooked steaks for even more guests.



FIELD TRIPS

Our pre Thanksgiving turkey hunt on Nov. 12th, organized and lead by Mary Lou Weiner was a great success. The weather was delightful, the countryside was beautiful and good fellowship abounded. Just as we were about to depart without finding a single turkey, the keen eyes of Lois Robinson spotted six. Our mission was accomplished.

The trip on Dec. 3rd to Bromeli Art Gardens was sparsely attended but the three of us enjoyed immense-ly the instructive talk by Mr. Hyland about his hundreds of bromeliads. He is willing to show his gardens to visitors if they call ahead. His phone No. in Orange City is 775-9919.

To top off the day, about thirty sandhill cranes were located across a field near Hwy 44. They broke into two groups. One group of about ten birds landed about 200 yards from us. A second group of about twenty birds flew directly at us and over our heads. That was a sight that gilded a fine trip

Our planned trips through January are as follows:

- Saturday, Dec. 18th - Our most pleasant and productive trip is being saved as a Christmas present to ourselves. We will visit Black Point Wildlife Drive which is an easy trip and a delight for birding.
- Friday Jan. 7th - This trip will take advantage of those hardy individuals who arose early and toiled late to take the Christmas Bird Count. We will visit the places where they saw the most or the most unusual species.
- Saturday, Jan. 22nd - Since there are no beach tolls in January, we will drive along the beach to Ponce Inlet Park looking for sea birds. Then a gentle walk along the beach in the park looking for waders. The last time we were here we found the piping plover.

AUDUBON ADVENTURES

Our Halifax Chapter renewed enrollment of 21 5th grade classes in the Daytona Beach area for this school year. AA has grown nationally to 600,000 children. Each of our 21 classes represents \$30. I am pleased to offer AA to teachers because of its quality writing, illustrations and environmental education soundness.

Give the Gift of Nature and Help Audubon Grow!

When you give your first gift, you'll receive the limited edition 1993 Painted Bunting Suncatcher ornament. Give two or more memberships and receive an additional bonus, Audubon's pocket guide, "A Selection of Familiar Birds of North America."

Your first gift, or your own renewal is just \$30, and each additional gift is just \$20. Our chapter gets credit for each new membership and Audubon has more valuable members.

Please enroll this individual as a member in the National Audubon Society and the chapter, with full membership benefits and a year of Audubon Magazine..

Gift to: _____
PLEASE Name
PRINT _____
Address _____

City State ZIP

Each additional Gift at \$20 (and for your bonus gift).

Gift to: _____
PLEASE Name
PRINT _____
Address _____

City State ZIP

Gift to: _____
PLEASE Name
PRINT _____
Address _____

City State ZIP

7XSCO Chapter Code E41

Please make your check payable to National Audubon Society and send to:

National Audubon Society Membership Dept.,
P.O. Box 51000, Boulder CO 80321-1000

Next year the paper will increase in price. We haven't been told how much. To hold the line this year, Audubon has cut costs as much as they can.

We, also, are finding it hard to continue our financial support. Please consider sending your check for Audubon Adventures made to Halifax River Audubon Society and mailed to our treasurer, Vivian Smith, whose address is on the front page.

The following are topics of the 1993-94 school year:
WILDFLOWERS - ANIMAL COMMUNICATION - MARINE MAMMALS - SNAKES - SONGBIRDS - ENDANGERED SPECIES - WATER

Glade Koch

Education Chair

sion was accomplished.

The trip on Dec. 3rd to Bromeli Art Gardens was sparsely attended but the three of us enjoyed immensely the instructive talk by Mr. Hyland about his hundreds of bromeliads. He is willing to show his gardens to visitors if they call ahead. His phone No. in Orange City is 775-9919.

To top off the day, about thirty sandhill cranes were located across a field near Hwy 44. They broke into two groups. One group of about ten birds landed about 200 yards from us. A second group of about twenty birds flew directly at us and over our heads. That was a sight that gilded a fine trip

Our planned trips through January are as follows:

- Saturday, Dec. 18th - Our most pleasant and productive trip is being saved as a Christmas present to ourselves. We will visit Black Point Wildlife Drive which is an easy trip and a delight for birding.
- Friday Jan. 7th - This trip will take advantage of those hardy individuals who arose early and toiled late to take the Christmas Bird Count. We will visit the places where they saw the most or the most unusual species.
- Saturday, Jan. 22nd - Since there are no beach tolls in January, we will drive along the beach to Ponce Inlet Park looking for sea birds. Then a gentle walk along the beach in the park looking for waders. The last time we were here we found the piping plover.

AUDUBON ADVENTURES



Our Halifax Chapter renewed enrollment of 21 5th grade classes in the Daytona Beach area for this school year. AA has grown nationally to 600,000 children. Each of our 21 classes represents \$30. I am pleased to offer AA to teachers because of its quality writing, illustrations and environmental education soundness.

Please enroll this individual as a member in the National Audubon Society and the chapter, with full membership benefits and a year of Audubon Magazine..

Gift to: _____
 PLEASE Name
 PRINT _____
 Address _____

 City State ZIP

Each additional Gift at \$20 (and for your bonus gift).

Gift to: _____
 PLEASE Name
 PRINT _____
 Address _____

 City State ZIP

Gift to: _____
 PLEASE Name
 PRINT _____
 Address _____

 City State ZIP

7XSCO Chapter Code E41

Please make your check payable to National Audubon Society and send to:
National Audubon Society Membership Dept.,
P.O. Box 51000, Boulder CO 80321-1000

Next year the paper will increase in price. We haven't been told how much. To hold the line this year, Audubon has cut costs as much as they can.

We, also, are finding it hard to continue our financial support. Please consider sending your check for Audubon Adventures made to Halifax River Audubon Society and mailed to our treasurer, Vivian Smith, whose address is on the front page.

The following are topics of the 1993-94 school year:
WILDFLOWERS - ANIMAL COMMUNICATION - MARINE MAMMALS - SNAKES - SONGBIRDS - ENDANGERED SPECIES - WATER

Glade Koch
Education Chair

HALIFAX RIVER AUDUBON SOCIETY
Carlton M. Smith, Editor
542 S. Lanvale Av
Daytona Beach FL 32114-3943

ADDRESS CORRECTION REQUESTED



NON-PROFIT ORG.
Bulk Rate
U S Postage
PAID
Permit No. 395
Daytona Beach FL

MRS AUDREY CHRISTIE
1333 MARGINA AV
DayBch FL 32114-5947