

HOWARD

MARYLAND ORNITHOLOGICAL SOCIETY
September - October VOL. VI NO. 1
1977

WELCOME

We welcome our friends from previous years as well as those who are new to our group and are looking forward in our sixth year to a variety of field trips, programs and special events. Please mail the membership blank and your dues to the treasurer soon. Only those people on record as members by the middle of October will receive all subsequent newsletters; mailing costs force us to make this decision. If you have lost or mislaid the membership blank that was in your last mailing, call our Treasurer Kris 997-5967 and he will help you. Although this chapter is affiliated with the Maryland Ornithological Society and our major interest is birds, we are involved with many aspects of natural history--our field trips and programs reflect this. We encourage you to take advantage of whatever may interest you. The editors of the newsletter (Nan Rhinlander 286-2427 and Jo Solem 725-5037) continue to welcome your contributions of birding experiences, book reviews, sightings, puzzles or any items of interest to the members.

EDUCATION COMMITTEE OFFERINGS

The Education Committee, under the direction of Anita Conron, now has a variety of slide shows and talks available for use by community groups, school classes, 4-H clubs, scout troops, garden clubs, etc. The slide shows include "Winter Birds of Howard County," "Marsh and Water Birds," "Landscaping to Attract Birds," and "Spring Wild Flowers of Howard County." The non-slide talks are "Nests" (with a nest collection), "Introduction to Bird Banding," (with equipment demonstrated), "Attracting Birds," (including how to make simple feeders), and "Howard County Birds" (with mounted specimens). If you belong to or know of a group that would be interested in any of our programs call Anita 988-9390 and discuss the possibility with her. If the group is able to make a donation to help defray our expenses we would appreciate it but we do present them without charge--especially in the local schools. This is one way the club has decided to try to reach a greater number of people than we are able to do thru our regular meetings and field trips.

BIRD SIGHTINGS

For bird sightings that you make in Howard County, either migrants or feeder birds, contact Jo Solem (725-5037). Of special note are particularly early or late dates for a given season; these are compiled for submission to Maryland Birdlife.

CLIP AND POST - Meeting Dates for the Howard Bird Club for the 1977-78 Year

Sept. 8	Nov. 10	Jan. 12	March 9	May 11
Oct. 15	Dec. 8	Feb. 9	April 15	

VOICE OF THE NATURALIST

If you are able to dial suburban Washington exchanges call the taped Voice of the Naturalist 652-3295 weekly for a listing of the rare and seasonal birds sighted in the mid-Atlantic region. This service to birders of the area is sponsored by the Audubon Naturalist Society.

FAREWELLS

We are sorry to report that several of our board members will be leaving the area in September. Bob Herndon was one of our founders and is one of our most enthusiastic birders. He has served the club in numerous capacities including President, Vice-president, Field Trip Chairman, Trustee to the State MDS and frequently led field trips. He was responsible for putting together several of the slide shows that the club uses in its educational programs, has presented photography workshops and initiated a statewide fall moon watch for migrant birds in 1975. Dr. Herndon is leaving to become the Chairman of the Center for Brain Research at the University of Rochester Medical School.

Tom Moyer has decided to go back to school so September will find him enrolled in a three year program at Hofstra University, Long Island, New York, leading to a Ph.D. in group social psychology. Tom has served as Vice-president, Field Trip Chairman, Program Chairman, has helped coordinate the May Count and was currently serving as Conservation Chairman.

Our Secretary for the coming year Cindy Bunnell is moving from Columbia to Keedyville, Md. We're delighted she finally found a house but are sorry to lose an active birder, May Counter and capable Secretary. She promises to join an occasional field trip if we travel in her direction. We hope all three of our departing board members will establish active birding contacts elsewhere and wish them much success in all they do. For their contributions and leadership we are most grateful.

BOARD MEETINGS

September 29, Thursday - Eileen & John Glegg, 8909 Tamar Dr., Apt. 101, Columbia 730-4362
October 27, Thursday - Marty Chestem, 10105 Windstream Dr., Columbia, Apt. 6 730-1527

NEW SERIES IN NEWSLETTER - NATURALISTS IN AMERICA

If you received our newsletter last year you remember that in each issue we discussed some aspect of the topic "Attracting Birds." During the 1977-78 year we will focus on some of the early naturalists who worked in North America touching on their lives and their major contributions to science. Most individuals will be those who contributed to the development of ornithology but many of the people who made these early contributions were interested in a number of facets of the natural world. Europe was the source of encouragement for the explorations, and much of the support, especially monetary, came from there. Many of the naturalists were European, traveled here and then returned after some time to their native land although some settled here. Many of them left fascinating written and/or pictorial records of their explorations and adventures.

QUIZ ANSWERS

1. A; 2. A; 3. C; 4. B; 5. B; 6. D; 7. F; 8. C; 9. F; 10. G;
11. D; 12. H; 13. H; 14. D; 15. F; 16. C; 17. F; 18. C; 19. G; 20. B.

Early Naturalists in North America: John Lawson

During the fifteenth and sixteenth centuries the French, Spanish and Dutch explorers made mostly brief or offhand mention of some of the plants, birds and animals they encountered on various parts of the continent. By the seventeenth century we begin to find increasing attention being paid to some of the animals of the New World. Thomas Morton from the Plymouth Colony speaks of several types of ducks and millions of "turtledoves;" John White of Roanoke (Lost Colony fame) did watercolors of the pelican and frigatebird among others and John Smith described some twenty birds in one of his writings. Closer to home, the Maryland Calverts wrote in 1633 of birds such as the eagle, swan, partridge, bitterns, geese and ducks.

The earliest work devoted in large measure to natural history in America was John Lawson's A New Voyage to Carolina published in London in 1709. Lawson arrived in Charleston, S.C. in 1700 almost as though he had dropped from another planet for virtually nothing has been learned of his early life or education in England or what prompted his interest in natural history. He started on his first expedition in late December of the year he arrived, setting out with five Englishmen, three Indian men and one Indian woman—all in a cypress dugout canoe. One of their first stops as they went north was Bulls Island, still a mecca for bird lovers, and notes that there were "good Plenty of Powl, as Curleus, Gulls, Jannets, and Pellicans, besides Duck and Mallard, Geese, Swans, Teal, Widgeon, etc." The wildlife there included "Swarms of Mosketoes and other troublesome Insects."

During this trip through the Carolina wilderness they were frequently entertained by Indian tribes and Lawson evinces much interest in their customs and civilization. He showed a particular interest in the plants that they used so effectively for healing. In the piedmont he accurately describes the gorgeous wood duck, the numerous woodcock they encountered and, long before Audubon was describing the numberless passenger pigeons in the Ohio Valley, Lawson describes them as "so numerous in these Parts, that you might see many Millions in a Flock; they sometimes split off the Limbs of stout Oaks, and other Tree, upon which they roost o' Night. . . . At this time of the Year, the Flocks, as they pass by, in great measure, obstruct the light of the day." His party's destination was the coast of North Carolina near present Hillsboro. They arrived in late February during a thunderstorm which dumped both snow and rain on them. Lawson decided to stay for some period in the Pamlico settlement and resolved to begin collecting specimens for interested people in England. He wrote to one James Petiver offering his services as a collector. Petiver was a member of the Royal Society and an excellent botanist; he was one of the first to become a patron for a naturalist in America.

In 1708 Lawson returned to England to superintend the publication of his book which included not only his account of the 1701 journey, but extensive notes on the geography of the area, Indian customs, agriculture and an amazing variety of natural history data. He apologizes for incompleteness of the list of wild plants and then proceeds to detail hundreds, provides fifteen pages of descriptions of 70-odd species of trees, includes a section on "Beasts" (mammals), one on insects and a section called the "Birds of Carolina." He describes and comments on over a hundred "kinds"; although his use of local names is sometimes puzzling, he certainly saw the passenger pigeon, Carolina parakeet, ivory-billed woodpecker and Kakimo curlew.

He hoped to eventually write a complete natural history of Carolina but fate was not to allow him the chance. On an expedition up the Neuse River to determine the point of navigability, his party fell into the hands of Tuscarora Indians; although some members were released, Lawson was executed. His writings had laid an excellent foundation upon which other naturalists could build.

CALENDAR

Field Trips

Field trips meet in the parking lot of Swansfield Elementary School on Cedar Lane (near the hospital) in Columbia unless another meeting place is specified. If you have questions about any trips contact Field Trip Chairman, Cathy Williamson 730-0338.

September 11, Sunday - EARLYBIRDERS 6:30 A.M. Meet on the first Sunday of each month (except holidays) for several hours of local birding. Inclement weather will cancel.

September 12, Monday - DISCOVERY WALK - LONG BEACH 9:30-11:30 A.M. Meet at Stonehouse in the Long Beach Village Center, Columbia. Leader Eileen Clegg, 730-4362. Easy walk for adults & children observing the natural history of area. Inclement weather cancels.

September 18, Sunday - PATAPSCO STATE PARK - Grange Grove/Lichester Area. Meet at Swansfield at 7:00 A.M. Leader David Holmes, 730-7083. ½ day trip. Bring lunch if you wish to stay in the area longer. David is an excellent leader for fall migrants.

September 20, Tuesday - DISCOVERY WALK - OWEN BROWN 9:30-11:30 A.M. Meet at Lake Michon Landing off Gradybrook Way, Columbia. Wear sturdy shoes. Rain cancels walk.

September 24, Saturday - FREDERICK COUNTY - Washington Monument State Park, joint trip with the Frederick MOS chapter. Hawks and other migrants. Possible side trip to Millponds. Bring a lunch. Meet at Swansfield at 7:30 A.M. Leader Lucille Peters 465-6293.

September 28, Wednesday - DISCOVERY WALK - WILDE LAKE 9:30-11:30 A.M. Meet at Wilde Lake dock (north side of lake) Columbia. Leader Marcia Krishnamoorthy 997-5967. Easy walk along the bike paths near Wilde Lake as well as surrounding woods. Rain cancels.

October 2, Sunday - EARLYBIRDERS. 6:30 A.M. Swansfield Elementary School.

October 6, Thursday - DISCOVERY WALK - HARPER'S CHOICE 9:30-11:30 A.M. Meet at Kehler Hall, Joseph Square Village Center, Columbia. Leader Cathy Williamson, 730-0338. Walk in the fields between Harper's Choice and the Middle Patuxent River. Wear sturdy shoes. Rain cancels walk.

October 8, 9, 10 - BRIGANTINE - CAPE MAY, NEW JERSEY - This trip which will include the Cape May Bird Observatory to observe hawk banding will visit varied habitats. Minimum of 6 people must register or trip will be cancelled. Motel or camping reservations thru Cathy Williamson 730-0338. Meet at 7:30 A.M. at Swansfield on Oct. 8

October 23, Sunday - FERNS AND FUNGI WALK 1:00 P.M. An easy walk thru the Daniela section of Patuxent State Park to observe Ferns (including the Silvery Glade Fern & rare Walking Ferns) and fungi (much will depend on the fall weather). Leaders Jo Solera (ferns) 725-5037 & Peggy Wolkow (fungi). Meet at Swansfield Elementary School.

Programs

Programs and business meetings are held on the second Thursday of each month from September thru May at Swansfield Elementary School on Cedar Lane (near the hospital) in Columbia. The program begins at 7:45 P.M. The "book store" with natural history-related books, records, stationery and other materials is open before & after meetings.

September 8, Thursday - NOTE that the date in the field trip list previously mailed is incorrect. "The Galapagos Islands" - Jean Nobel and Marty Christen. Travel to the enchanted isles for a look at the fascinating wild life to be found there.

October 13, Thursday - Check local newspapers for announcement of topic.

BIRD SPECIMENS WANTED

The Howard Chapter of MOS now has the necessary state and federal salvage permits to allow us to keep dead birds and nests for educational purposes. If you should find a dead bird IN GOOD CONDITION please wrap it in plastic, note place and date, and freeze it. Call Jo Soler 725-5037. Please note that we are unable to use birds that have been mutilated by cats or run over by cars. The first group of mounted specimens belonging to the club will be on display at the September 8 meeting. They are a fine beginning collection; in addition to some of the common birds found in the county there is a Sharp-shinned Hawk, Red-shouldered Hawk and Barred Owl. To come and see them.

BIRDS OF HOWARD COUNTY QUIZ -

The names of many birds include a color. The birds listed below occur in Howard County at some time during the year. How many can you correctly identify? Answers on page 2 of this newsletter.

- | | | | | |
|-----|----------------|----------------------|----|--------|
| 1. | B _____ | Hawk | A. | Black |
| 2. | _____ | Vulture | B. | White |
| 3. | _____ | -tailed Hawk | C. | Red |
| 4. | _____ | Heron | D. | Blue |
| 5. | Bob _____ | | E. | Green |
| 6. | Great _____ | Heron | F. | Yellow |
| 7. | Greater _____ | legs | G. | Purple |
| 8. | _____ | - bellied Woodpecker | H. | Brown |
| 9. | _____ | - bellied Sapsucker | | |
| 10. | _____ | Martin | | |
| 11. | _____ | Jay | | |
| 12. | _____ | Creeper | | |
| 13. | _____ | Thrasher | | |
| 14. | Eastern _____ | bird | | |
| 15. | _____ | - throated Vireo | | |
| 16. | American _____ | start | | |
| 17. | _____ | throat | | |
| 18. | _____ | - winged Blackbird | | |
| 19. | _____ | Finch | | |
| 20. | _____ | - throated Sparrow | | |

BALTIMORE CHAPTER MOS SPONSORS AUDUBON LECTURE SERIES

Each year the Baltimore chapter of MOS sponsors a series of movie/lectures. This series features outstanding speakers and excellent movies, the subject matter may take you anywhere in the world and they are designed for families. Unfortunately, it was not possible to obtain the schedule for the coming year prior to this mailing but the schedule should be available by our Sept. 8th meeting or contact our President Lucille Peters 465-6295. Tickets are available at the door for an individual program but are a real family entertainment bargain if the series is purchased. NEWSLASH Information just received. Programs will be on Friday evenings as follows: Oct. 14 - "Alaskan Country" by Alvah Sanborn, Dec. 2, March 5, & April 14. Adult season tickets are \$6.00, single programs \$2.00; juniors 18 & under - \$2.00 season, \$1.00 single admission. For tickets write to Mrs. Wm. Noble, 221 Good Ale Rd., Baltimore, Md. 21212; for information call 377-6585.

The Baltimore chapter's Tuesday Evening at Gylburn will be a series of lectures based on the Seminars in Ornithology from Cornell University. They will be given on the first Tuesday of the month starting Oct. 4 at 8:00 P.M. at Gylburn in Baltimore.

membership blank included

HOWARD COUNTY CHAPTER - MARYLAND ORNITHOLOGICAL SOCIETY
(1977-1978)

The Howard County Chapter of MOS was organized in October of 1972. It is one of 14 chapters throughout the state. Monthly meetings are held September through May on the second Thursday of each month, at 7:45 p.m. at Swansfield Elementary School in Columbia, Maryland. Meetings include slide presentations, speakers and films and are open to the public. In addition, a full schedule of field trips is planned for the year. Chapter meetings and field trips are announced in the county newspapers and the chapter newsletter. Dues-paying members contribute to the operations of the chapter, state MOS projects, and receive the chapter newsletter and Maryland Birdlife on a periodic basis.

The officers for 1977-1978 are:

President	-	Lucille Peters	-	465-6293
Vice-President	-	John Clegg	-	730-4362
Secretary	-	Cynthia Bunnell	-	730-4087
Treasurer	-	V. "Kris" Krishnamoorthy	-	997-5967
MOS Trustee	-	Robert Herndon	-	730-0942

The following information has been assembled to aid in your planning and enjoyment of MOS activities sponsored by the Howard County Chapter for the fall of 1977. Included are guidelines for field trips, a schedule of programs and trips, and a brief description of the seven sanctuaries owned by MOS and available for use by its members. Notice that two field trips are scheduled prior to our first monthly meeting in September. If you have any questions regarding this information, please contact the field trip chairman, Cathy Williamson at 730-0338.

Field Trip Pointers

(To Help Everyone Enjoy and Benefit From Field Trips)

1. Before trip - Read calendar carefully for details of trip: Meeting place, length of trip, lunch or snack needed, etc. If you have any questions do not hesitate to call the leader or the field trip chairman.
2. If there is a question as to whether the trip will be held because of the weather conditions, consult the trip leader whose phone number appears in the calendar.
3. Clothing - Adopt the technique of layering clothing so that you can adjust easily to the changes of temperature that are frequent on trips. A light jacket that is water-repellent will also serve as a windbreaker in a cool wind. Long pants are recommended along with socks and sturdy comfortable shoes. A hat may also be desirable. Although one needn't avoid the woods because of insects and certain plants, sensible precautions are the best way to avoid problems. In warm weather examine yourself and your children for ticks after any outing. Although few trips will, ford streams many fields are wet in the morning; mud from recent rains may stay on paths, etc., so water-resistant shoes or a change of shoes and socks after the hike may be helpful. Take insect repellent on warm weather trips.
4. Bring with you binoculars, field guide and a small notebook for recording observations and sightings. If you are new to the hobby and do not have basic equipment, do not hesitate to ask others in the group for their recommendations; they will be glad to give you help. A small hand lens or magnifying glass can be helpful if you are interested in wild flowers, ferns, insects, etc.
5. Report to the leader upon arrival at the designated meeting place on time and with ample supply of gas. If you car-pool, share expenses.
6. Leave pets at home.
7. To hold caravan together, keep the car behind you in your rear-view mirror. When a stop is made, pull well off the road, turn motor off promptly and if the group is getting out of the cars, close doors quietly.
8. Let the leader lead the way. Stay behind the leader to avoid flushing birds that the whole group would be able to see. Avoid loud noises and unnecessary talking.
9. Bird listening is as important as bird watching.
10. Practice good conservation: Take nothing but pictures--leave only your footprints.

Program and Field Trip Calendar - Fall 1977

Meeting place (unless otherwise specified):
Swansfield Elementary School
5610 Cedar Lane, Columbia, Md. 21044

- AUG. 14 (Sun.) BOMBAY HOOK NATIONAL WILDLIFE REFUGE. For good views of shorebirds, terns, herons and other marsh residents. The refuge is about 2 $\frac{1}{4}$ hours from Columbia on Delaware Bay. Most birding will be done from cars, traveling around freshwater impoundments, and at observation points. Bring a lunch and mosquito and sun protection. A full day's excursion, depending on the heat.
Meeting time: 7:00a.m.
Leader: Bob Herndon, an avid birder/photographer and experienced trip leader, will make this trip his "swan song" with the Howard County bird club. Join us in thanking him for his contributions to the club and in wishing him good birding in Rochester, N.Y.
730-0942
- AUG. 20 (Sat.) INSECT WALK. To introduce you to some of the summer insects of Howard County. An easy afternoon walk through fields near the Middle Patuxent Valley off Trotter Rd.
Meeting time: 1:00p.m. *Take the group to Haviland's house*
Leader: Elizabeth Haviland, former entomology professor at the U. of Md. and leader of numerous walks with the D.C. Parks and Recreation.
Raindate: Aug. 21 (Sun.)
- SEPT. 8 (Thurs.) Monthly Meeting.
- SEPT. 11 (Sun.) EARLYBIRDERS. Something new for those hardy souls who like good early morning birding. Meet on the first Sunday of each month (excepting holidays) for several hours of local birdwatching. Inclement weather will cancel the trip.
Meeting time: 6:30a.m.
Leader: Leader and location for the hike will be decided each month by those participating.
- SEPT. 12 (Mon.) DISCOVERY WALK - LONG REACH. This new series of walks for adults and children will be held weekly through September on weekday mornings and will include observations of flora and fauna of the area. This trip is an easy two hour walk along the bike paths near Hittman Pond and adjacent streams.
Meeting time: 9:30a.m.
Meeting place: Stonehouse, Long Reach Village Center
Leader: Eileen Clegg 730-4362
- SEPT. 18 (Sun.) PATAPSCO STATE PARK. For fall migrants and resident birds of the Orange Grove/Ilchester area. This is a very productive area for birds and should be an easy walk along the Patapsco River. Bring a lunch if desired.
Meeting time: 7:00a.m.
Leader: David Holmes, an experienced birder, bander and trip leader who should provide some clues for identifying those fall warblers.
730-7083
- SEPT. 20 (Tues.) DISCOVERY WALK - OWEN BROWN. A two hour walk around Lake Elkhorn and adjacent ponds. Wear decent hiking shoes.
Meeting time: 9:30a.m.
Meeting place: Lake Elkhorn Landing off Cradlerock Way
Leader: To be announced

- SEPT. 24 (Sat.) FREDERICK COUNTY. Join the Frederick County MOS Chapter on a trip to Washington Monument State Park for views of hawks and other migrants. Also a possible side trip to Lilypons. Bring a lunch. A good chance to meet some neighboring birders who have attended our workshops.
Meeting time: 7:30a.m.
Leader: President Lucille Peters will introduce us to the Frederick County Chapter and its leaders. 465-6293
- SEPT. 28 (Wed.) DISCOVERY WALK - WILDE LAKE. An easy two hour walk along the bike paths near Wilde Lake and surrounding woods.
Meeting time: 9:30a.m.
Meeting place: Wilde Lake dock (north side of the lake)
Leader: Marcia Krishnamoorthy 997-5967
- OCT. 2 (Sun.) EARLYBIRDERS. See Sept. 11 listing.
- OCT. 6 (Thurs.) DISCOVERY WALK - HARPER'S CHOICE. A two hour walk in the fields between Harper's Choice and the Middle Patuxent River. Wear decent hiking shoes.
Meeting time: 9:30a.m.
Meeting place: Kahler Hall, Joseph's Square Village Center
Leader: Cathy Williamson 730-0338
- OCT. 8,9,10 BRIGANTINE - CAPE MAY. This is the third annual trip to New Jersey's famous NWR and the Cape May Bird Observatory. A special attraction is close-up views of hawks at the banding station at Cape May. Diverse habitat includes fresh and salt water marsh, ocean beach, low shrubs and open fields, offering chances to see over a hundred species of birds each year. Most birding is done from the cars traveling along impoundments. Motel or camping reservations can be made through Cathy Williamson, 730-0338, (preferably at the first monthly meeting). If fewer than six people register, a different trip will be rescheduled.
Meeting time: 7:30a.m.
Leader: To be announced.
- OCT. 13 (Thurs.) Monthly Meeting.
- OCT. 23 (Sun.) FERN AND FUNGI WALK. An easy walk through the Daniel's Area of Patapsco State Park to observe numerous ferns (including the silvery spleenwort and walking fern) and fungi (depending on the weather).
Meeting time: 1:00p.m.
Leaders: Jo Solem (ferns) and Peggy Wolkow (fungi) Jo Solem 725-5037
- NOV. 6 (Sun.) EARLYBIRDERS. See Sept. 11 listing.
- NOV. 10 (Thurs.) Monthly Meeting.
- NOV. 12 (Sat.) COLUMBIA BIRDS AND THEIR HABITATS. A useful approach to bird identification involves habitat birding. Learn the techniques and view ducks and other winter residents. Refreshments follow.
Meeting time: 8:00a.m.
Leader: Nan Rhineland, an experienced local birder who has taught a course on habitat birding for the Park's Dept. 286-2427
- NOV. 19 (Sat.) SANDY POINT STATE PARK. For winter waterfowl in nearby Anne Arundel County. Possible sightings of horned larks and snow buntings. Bring a lunch, we may join the Anne Arundel Chapter and find other spots before we return.
Meeting Time: 8:00am
Leader: Marty Chestem, who has birded all around the country, will guide us around this local park.

- DEC. 4 (Sun.) EARLYBIRDERS. See Sept. 11 listing.
- DEC. 8 (Thurs.) Monthly Meeting.
- DEC. 11 (Sun.) BALTIMORE ZOO. A family outing including close-up views of wintering ducks and a glimpse at some unusual tropical species in the bird house.
Meeting time: 12:30p.m.
Leaders: Leroy and Cathy Williamson, frequent visitors of the local zoos. 730-0338
- DEC. 20 - MARYLAND XMAS COUNTS. Counts around the state will take place
JAN. 2 between these two dates. The Triadelphia count will be coordinated by Danny Bystrack. All members are encouraged to assist on one or more of the counts.

MOS Sanctuaries

Carey Run - 162 acres, Frostburg, Garrett County. Make reservations with Mrs. C. Gordon (Billie) Taylor, 689-6791. Directions: Take I-70 to Hancock, U.S. 40 and I-48 to about 4 miles past Frostburg. Take the Finzel Rd. exit (Rt. 546) and make a left immediately onto Beall School Rd. Go to dead end, make a right and stay right at the next fork. Take the next right, cross bridge, quick left and quick right to sanctuary gate. Overnight facilities are available. About 150 species have been sighted in this western most MOS sanctuary, a stream valley at elevations between 2400-2600'. Also wildflowers, fungi, mammals and Red Efts. Breeding birds include: Ruffed grouse, golden-winged warbler, Bewick's wren.

Adventure - 75 acres, Potomac, Montgomery County. For information contact Mrs. M.B. Donald, 299-6840. Not owned by MOS, operated jointly with MD-National Capital Park and Planning Comm. and Hood College. Picnicking not permitted, area reserved for research. Directions: From the Capital Beltway go west on Rt. 190 to Potomac Village, north on 189 for 0.7 mile, northwest on S. Glen Rd. for 1.7 miles and southwest on Glen Rd. for 0.3 mile. Includes floodplain, upland woods, fields and hedgerows. Good for warblers, flycatchers and occasionally pileated woodpeckers.

Irish Grove - 1,450 acres, Marion, Somerset County. For information or reservations call Mrs. Robert Oakman, 968-2429 or Mr. Sam Cimino, 749-7852. Directions: Take U.S. 50 to Salisbury; take U.S. 13 south to Rt. 413. Take Rt. 413 to Marion (6 miles). Turn left on Rt. 357; go to St. Paul's Rd. Left on St. Paul's to Quindocqua Rd. Turn right and go to Rumbly Pt. Rd., staying right till you reach the sanctuary sign. Overnight accommodations are available. Birding is best in winter or spring; the bugs are ferocious in the summer. Includes marsh, pine woods, fields, fresh and salt water ponds. 225 species seen.

Mandares Creek - 8.1 acres, Anne Arundel County. For information contact Mrs. Ellen Gizzarelli, 674-9501. The area is boggy, dense and opens onto marsh. Not recommended for individual trips. Anne Arundel Co. usually leads a field trip here the third Saturday of May. Birds seen in breeding season are: Acadian Flycatcher, Yellow-Thr'd Vireo, Hairy Woodpecker, Scarlet Tanager, Ovenbird, White-eyed Vireo, Blue-grey Gnatcatcher.

Mill Creek - 155 acres, Wye Mill, Talbot County. For information contact Robert Smart II, 822-2324. Directions: Take U.S. 50 across Bay Bridge; right on Rt. 662 to village of Wye Mills; continue south 2.3 miles to bridge over Mill Creek. Three nature trails and shelter with picnic tables. 150 species have been seen. Spring migration is a good time to visit.

Pelot - 60 acres, Greensboro, Caroline County. For information call A. J. Fletcher, 479-1529. Directions: Take U.S. 50 across Bay Bridge; Rt. 404 east to Hillsboro; then Rt. 480 to Greensboro. Take Rt. 314 east to Boyce Mill Rd. Turn left and go to Drapers Mill Rd. to where the road crosses Gravelly Branch. Pelot is along the Branch, east of Drapers Mill R.

Tum Suden - 1.57 acres, Harford County. For information and directions call Mrs. Richard Cole, 823-2650 or Dr. Benjamin Poscover, 823-2548. This sanctuary abuts Harford Glen Park.