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Cover: Short-eared Owl at Patapsco Sewage Plant, Baltimore City, January 1981.
Photo by Jim Stasz.



RANGE EXPANSION OF CLIFF SWALLOW INTO MARYLAND COASTAL PLAIN

Robert M. Patterson

Historically the Cliff Swallow (*Petrochelidon pyrrhonota*) has been known to nest only in the middle and western regions of Maryland, from and to the west of the fall line between the Piedmont Plateau and Coastal Plain (Stewart and Robbins, 1958; Robbins and Bystrak, 1977).

In 1976 I found a Cliff Swallow nest on a steel girder supporting a highway bridge over Western Branch near Upper Marlboro, Prince George's County, Maryland. This location is in the Coastal Plain Region, about 25 miles from the nearest known nesting site of this species on Rocky Gorge Dam on the Patuxent River northwest of Laurel at the fall line. The nest was built on the foundation of a Barn Swallow (*Hirundo rustica*) nest of the previous year. The clutch of 4 eggs was laid and incubation was underway before the Cliff Swallows added more mud to form the typical jugshaped nest for which the species is known. Both adults took part in nest building, but the male performed most of the work, frequently adding mud while the female incubated and while I sat on a platform rigged under the bridge to facilitate photography.

Barn Swallows were nesting under this bridge and many of their nests had half-grown young when the Cliff Swallows began incubation. I saw no interspecific aggression between the two species. The Cliff Swallows fledged young, but I could not be sure of the number.

On June 17, 1980 I discovered another Cliff Swallow nest among a colony of Bank Swallows (*Riparia riparia*) in a sand and gravel quarry near Crofton, Anne Arundel County. This location is also in the Coastal Plain Region about 10 miles from Rocky Gorge Dam. The nest was among 200 Bank Swallow burrows and was, I believe, in a burrow dug and abandoned by this species. The Cliff Swallow burrow differed from most Bank Swallow burrows in that the opening in the cliff face was larger and the tunnel depth was much shallower. Erosion of the light sand created the larger opening, while a vein of heavy gravel prevented the tunnel from being dug deeper into the cliff. A few other burrows in the colony resembled this one and were not used by Bank Swallows. I next visited the cliff 4 days later and found that the entrance to the Cliff Swallow burrow had been partitioned by typical mud construction so that the entrance was reduced to about 1½ x 2 inches in size. However, one side of the entrance was still formed by the sand cliff.

On June 27 I began extensive banding operations at this colony as a subpermittee under M. K. Klimkiewicz, permit 9432. Before dawn the Bank Swallow burrows were plugged and a mist net was erected to capture swallows that escaped. The Cliff Swallow nest was not plugged for fear of crumbling the mud entrance wall. During the course of banding operations both adult Cliff Swallows left their nest, were caught in the net, banded and released to the air. Banding operations continued for about 3 hours. On this date virtually all of the Bank Swallow eggs had hatched. Flashlight examination of the Cliff Swallow nest revealed at least one egg, but the degree of visibility did not permit full examination.

Banding at this colony continued until July 9, at which time virtually all Bank Swallows had fledged. The Cliff Swallows were still apparently incubating. On July 24 I found their nest abandoned. I opened the burrow and found 3 eggs in which embryonic development had ceased after the first few days. It seems reasonable to hypothesize that the extensive banding work, which kept the Cliff Swallows off their nest for several periods of several hours each, may have constituted sufficient disruption to cause the eggs to addle.

While the use of Bank Swallow burrows by Cliff Swallows is quite unusual, it is not unknown. Carpenter (1918) reported the use of Bank Swallow burrows by Cliff Swallows in California seawall cliffs.

In both instances I have described here, nesting by Cliff Swallows was begun after nesting by related species was well underway. My notes about the 1976 nest do not document egg dates. However, if the 1980 Cliff Swallow eggs had hatched they would have established a new late date for viable eggs for this species in Maryland (Robbins and Bystrak, 1977). Thus, it may be that Cliff Swallows nest infrequently in these unusual situations as an act of desperation at an advanced date in the season when a colony of their own kind has not been located.

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THE SEASON

WINTER SEASON, DEC. 1, 1980 - FEB. 28, 1981

Robert F. Ringler

Mild, dry weather continued into the early part of the winter, allowing a few lingering migrants to survive. Cold weather set in during mid-December and lasted into early February when a warming trend started a host of early northward migrants. The severity of the mid-winter weather may be judged by the survival of resident species as determined during the coming breeding season. Snow was particularly heavy in Western Maryland, while the remainder of the State enjoyed a relatively snow-free winter; this continued the drought that's been plaguing the region. Most Christmas Bird Count records have been excluded from this summary because they were published in the March 1981 issue.

Contributors: Terry Allen, Warren Bielenberg, Rick Blom, Larry Bonham, Ed & Esther Burns, Jim Clark, Frances & Don Cutchall, Ethel & Wilber Engle, Jerry & Roberta Fletcher, Inez Glime, Bill & Floyd Hayes, Marvin Hewitt, Dick Kleen, Wayne Klockner, Alicia Knotts, Haven Kolb, Walter Kraus, Alice Mallonee, Kathleen McKee, Donald Meritt, Paul Nistico, Mariana Nuttle, Paul, John & Michael O'Brien, Floyd Parks, Jim Paulus, Fran Pope, Jan Reese, Wilbur Rittenhouse, Carol & J. Scudder, Eddie Slaughter, Jim Stasz, Sallie Thayer, Charlie Vaughn, David Wallace, Robert W. Warfield, Peter Webb, Steve Westre, Hal Wierenga, Jim Wilkinson, Erika Wilson, and Paul Woodward.

Grebes. A Red-necked Grebe was seen for two days in mid-January in Baltimore harbor (Bielenberg, Stasz). Single Red-necked Grebes at Patuxent Naval Air Station, Feb. 22 (Clark), and in Baltimore harbor, Feb. 28 (Ringler, et al.), were probably northbound migrants. Warfield noted that a movement of Horned Grebes occurred on the night of Dec. 29-30 over Montgomery County. One bird was found about 8 p.m. of the 29th on the lawn of a Damascus home and was released on the Potomac the next day. Five were at Seneca on the 30th. Paulus counted 6 Pied-billed Grebes on Rocky Gap Lake on Dec. 21 and noted others wintering on the Potomac in open water just below Wills Creek.

Hérons. A Great Blue Heron was in Garrett County on the Youghiogheny River, Dec. 23 (Pope), and an impressive 8 were at Lilypons, Jan. 11 (Wallace). A late Green Heron was at Loch Raven, Dec. 5 (Ric Conn), who also noted a Great Egret in Prince Georges County, Dec. 2. Another

Great Egret was at Bozman, Talbot Co., Dec. 9 (Burns'). Two Louisiana Herons at Ocean City, Dec. 7 (Ringler, Stasz), were the last reported. A Least Bittern was found dead at Windyhill, Jan. 3 (Meritt). Overall, herons made a rather poor showing this year on Christmas Counts.

Waterfowl. The major flight of large waterfowl took place on Feb. 28 as reported by observers across the State. Jim Gruber estimated 100,000 Canada Geese and 20,000 Whistling Swans flying over hestertown that day, part of the large contingent that wintered in the area. Parks reports that up to 10,000 Snow Geese wintered around the Sudlersville-Barclay area of Queen Annes County, where hunting guides informed him that the birds probably came from the Delaware marshes to feed in the extensive grain fields. Reports of Snow Geese in Caroline County were 10,000 at Denton, Dec. 10 (Hewitt), and 20,000 at Hillsboro, Feb. 3 (Nuttle). A "Blue" Goose was on the National Geographic pond in Gaithersburg, Dec. 14 (Wilson), 50 at Denton, Feb. 13 (R. Fletcher), and 12 at Greensboro, Feb. 20 (Hewitt). The O'Briens noted the White-fronted Goose with 3 young at Blackwater, Dec. 7. Notable in winter were 2 Northern Shovelers at Denton, Jan. 2 (Westre), and 1 at Rocky Gap, Jan. 18 (Wilkinson). Over 50 Wood Ducks were on Druid Lake in Baltimore City, Jan. 18 (Ringler). Such a large number is able to survive on handouts from the nearby zoo where they are free to come and go. Redheads have become scarce in the bay region in recent years, but 25 at Chesapeake Beach, Jan. 10 (Wierenga) and 35 at Patuxent NAS, Jan. 11 (Clark) were exceptional. Evidence of the early migration was the 53 Redheads at Sandy Pt., Feb. 28 (Wierenga). Also massing for the northward flight were 1,000 Canvasbacks off St. Michaels harbor, Feb. 8 (Grace Hoster), and 5,000 in the Chester River, Feb. 15 (Parks). The first Harlequin Duck at Ocean City appeared on Dec. 7 (O'Briens). Slaughter found 4 females there at the jetty on Feb. 5 and 6 and a drake at the 19th Street groin on the 7th. Kleen found a female at the jetty, Feb. 22. Eiders made an impressive showing at the jetty, but identification was confused. Reports were: 10-12 King Eiders on Dec. 14 (Kleen), 1 Common Eider and 1 King on Dec. 26 (Bonham), 4 Commons and 8 Kings on Dec. 28 (O'Briens), 16 Kings on the Christmas Count on the 29th (Will Russell, et al.), 16 Kings on Jan. 2 (Hayes'); then the birds disappeared. The only other reported was a female King on Feb. 22 (Kleen). Exotic waterfowl that appeared this winter were a Barnacle Goose on West River, Jan. 9-10 (Wierenga, et al.), a drake Cinnamon Teal at Blackwater, Feb. 16 (Klockner) through Mar. 26 (refuge personnel), and a hybrid duck in Annapolis harbor from Dec. 30 onward. The latter is a cross between a species of the genus *Aythya* (perhaps a Ring-necked Duck or Common Pochard) with a dabbling duck (perhaps a Wood Duck or American Wigeon). Many ducks successfully wintered on the Potomac this year as there was plenty of open water. Warfield found 3,000 at Sycamore Landing, Jan. 24, mostly Mallards and Black Ducks with lesser numbers of Buffleheads, scaup, Common Goldeneyes, and mergansers. In the Allegany County portion of the river Paulus found Common Goldeneyes, Buffleheads, Common and Hooded Mergansers wintering.

Diurnal Raptors. A Black Vulture at Downsville, Washington Co., Jan. 5 (Mallonee), and 10 at Nolands Ferry, Frederick Co., Feb. 22 (Wallace) are evidence of this species strengthening its expanding range.

On Jan. 9 Pope banded a second-year female Cooper's Hawk that had been stunned flying into a window chasing some feeder birds. The hawk was unharmed. Kolb noted a vocal pair of Red-shouldered Hawks at Beckleysville on Feb. 16. One of the birds was at a nest of last year to which new green pine twigs had been added. Rough-legged Hawks were widely reported, with singles near Oldtown, Dec. 20 (Paulus), near Gortner, Dec. 21 (Pope), at Rocky Gap, Dec. 21 (Paulus) and Jan. 6 (Wilkinson), in southern Frederick County, Jan. 17 (Wallace), and at Patuxent NAS, Feb. 15 (Clark); 4 were at Irish Grove, Feb. 21 (Kleen), and] wintered around Fishing Creek Marsh, Chesapeake Beach (Kraus). Parks found an immature Golden Eagle wintering in Kent County. The Hayes' found a subadult Golden Eagle at Blackwater, Dec. 6, and Slaughter noted another immature east of Vienna, Feb. 3. Parks also estimated 5 adult and 9 immature Bald Eagles wintering in Kent County. Other reports were of an immature at Denton, Dec. 20 (Westre), and another at Tanyard, Feb. 24 (W. Engle); in Talbot County they were found at five locations: Wye Mills, Longwoods, Easton, Tunis Mills, and Oxford, with 2 at Tunis Mills on Feb. 8 (Russ Klages). Wilkinson saw a female Northern Harrier near Cumberland, Jan. 9-16. Kraus reported a Peregrine Falcon near Dunkirk, Calvert Co., Jan. 20. A Merlin at Denton on Feb. 8 (Nuttle), may have been an early migrant.

Gallinaceous Birds, Rail. Pope reports that the Ruffed Grouse population seems stable and that Wild Turkeys fared well during the winter, with frequent sightings made. A Ring-necked Pheasant near Bozman, Dec. 15 (Ed Burns, Vern Becker), continues a string of recent sightings on the Eastern Shore, all probably released for hunting purposes. The reproductive rate of these birds seems low, as they do not appear to be increasing. Wilber Engle found a Virginia Rail at Tanyard, Jan. 3 and 4.

Shorebirds. The Marbled Godwits at Ocean City peaked at 5 on Dec. 7 (Ringler, Stasz), and the last one was seen on Jan. 2 (Hayes'). Early American Woodcock were at West Ocean City, Feb. 6 (Slaughter), Bryans Road, Charles Co., Feb. 18 (Nistico), and Hughes Hollow, Feb. 21 (Woodward). Wallace found 19 Common Snipe at Lilypons, Dec. 7. One was at Tanyard, Jan. 3-4 (W. Engle), and one was at Hughes Hollow, Dec. 16 (Woodward). Klockner found 6 Sanderlings at Solomons, Dec. 5 through Feb. 5.

Gulls, Terns. Record numbers of gulls wintered in the Upper Chesapeake region as shown by the Christmas Count totals. Wierenga theorizes that the freeze-up in late December cleared the inland landfills and produced the large buildup on the bay. At the Montgomery County Landfill in Rockville he counted only 200 gulls during the first two weeks of January, but 12,500 on Jan. 28 and 15,000 on Feb. 27. The rarer gulls were well represented this winter. Wierenga found 4 different Glaucous Gulls at Rockville. Other Glaucous Gulls were at Liberty Reservoir, Dec. 26 (Stasz, Ringler), Chesapeake Beach, Dec. 27 (Kraus), and Salisbury from the Christmas Count on into January (Vaughn). Wierenga reported 3 different Iceland Gulls at Rockville and the Hayes' found an immature at Berlin, Jan. 2. Unusual inland were a Greater Black-backed Gull at Seneca, Jan. 24 (Warfield), and 7 flying over Beltsville, Feb. 28 (Hayes'), the latter probably coming from Rockville. Baltimore Harbor totaled a Christmas Count record of 4 Lesser Black-backed Gulls. Other sightings

of Lessers were an adult at Lake Montebello, Dec. 6 (Ringler), one at Chesapeake Beach, Dec. 7 (Kraus), a subadult at Sandy Pt., Jan. 3 (Wierenga), one at Berlin, Jan. 24 (Vaughn), a subadult at Curtis Bay, Feb. 21 (Ringler, Stasz), and 4 different birds at Rockville by Wierenga. The O'Briens reported an immature Thayer's Gull at Rockville, Feb. 15. An adult Black-headed Gull was seen at Back River, Feb. 21 (Webb, Bonham). The last Laughing Gulls at Ocean City were 2 on Dec. 7 (Ringler, Stasz), while one at Solomons on Feb. 7 (Klockner) was unusual in mid-winter. Wierenga counted 100 Bonaparte's Gulls at Bay Ridge, Jan. 8. The only Little Gull of the season was reported at Ocean City, Dec. 14 (Kleen). The O'Briens found a Black-legged Kittiwake resting on the flats at Ocean City, Dec. 28. The last Forster's Terns seen this year were the 135 at Ocean City on Dec. 7 (Ringler, Stasz).

Doves, Owls. Wallace found Mourning Doves nest-building at Frederick on Feb. 18. At Ft. McHenry the Ringed Turtle Doves had a nest with 2 eggs on Feb. 27 (Bielenberg). Wierenga reported 6 Barn Owls wintering at Gude's Nursery in Rockville. A Great Horned Owl was observed on a nest at Piney Run Park, Carroll Co., Feb. 12 (Slaughter). Two Snowy Owls delighted hundreds of observers in the region this winter. One was in



Snowy Owl at Ft. McHenry
Photo by Warren Bielenberg

downtown Washington from Dec. 9 to at least Mar. 3. It hung out at the Dept. of Justice building. The second was at Ft. McHenry, Dec. 13 to Jan. 25 and Feb. 23-24. The latter bird apparently roosted across the harbor from the fort during the day and was often seen at dusk flying across the river, being harried by Greater Black-backs and landing on the sea wall around the fort. It also had a favorite tree in which it perched and fed mostly on local Rock Doves. Four Long-eared Owls wintered at Piney Run this year. Others were at Patuxent NAS, Feb. 15 (Clark), and near Frostburg, Feb. 25 (Wilkinson). Short-eared Owls were widely reported,

with 1 on Tilghman Island, Dec. 1 (Kleen), the first island record, 1 in Ocean City, Dec. 7 (Stasz, Ringler), 1 photographed at Concord, Caroline Co., Dec. 16 (J. Scudder), 2 at the Patapsco Sewage Plant in Baltimore harbor, Jan. 3-25 (Blom, et al.), 1 near Laytonsville, Jan. 6 (Wierenga), 3 near Potomac, Feb. 1 (O'Briens), 1 at Patuxent NAS, Feb. 15 (Clark), and 4 at Irish Grove, Feb. 21 (Kleen). Wierenga found 1 Saw-whet Owl on Assateague, Dec. 28, and 3 at the National Arboretum, Jan. 17, and the O'Briens found one at Hughes Hollow, Feb. 1.

Hummingbird, Woodpecker, Phoebes, Swallows. A female Ruby-throated Hummingbird visited College Park on a windy Dec. 3 (Ringler, Don Lewis), the first December record for the State. A Red-headed Woodpecker near Frostburg, Feb. 27 (Wilkinson), may have been an early migrant. A late Eastern Phoebe was at Lilypons, Dec. 20 (Wallace), and one was found dead at Linkwood, Jan. 16 (Russ Klages). The February warm spell brought in some early migrants, including phoebes at Lake Roland, Feb. 16 (Jane Bradshaw) and Hughes Hollow, Feb. 24 (Woodward), and Tree Swallows at Upper Marlboro before the end of the month (Bob Patterson, Chuck DuPree).

Corvids, Chickadees, Wrens. Two Northern Ravens were seen at Rocky Gap, Jan. 18 (Wilkinson), and 2 at Gambrill State Park, Feb. 14 (Wallace). Wilson reports that the huge crow roost in Rockville moved from the woods near the MEMCO to the grounds of the Woodmont Country Club during late December. The few Black-capped Chickadees that departed their breeding range in November had mostly dissipated by Christmas Count time. Wallace counted 16 in the Catocin-Thurmont area, Jan. 31, but other reports were sketchy. Carolina Wrens have been making a slow comeback from their drastic losses of recent years which reached a nadir on the 1978 CBCs. In Allegany County Wilkinson found 2 near Evitts Creek, Jan. 24-25, and 2 near Cumberland, Feb. 10-28. At Hughes Hollow, Woodward found a 69% increase in Carolina Wrens during his winter bird-population studies. In Table 1 I have again tabulated the Christmas Count totals of Carolina Wrens and compared them to the previous year's totals. For the second consecutive year they made increases throughout the State, except Garrett County, where they have gone uncounted since the one bird in 1977. Once again the gains appear most pronounced in the Ridge and Valley Section, where they must be doing well in the Hagerstown Valley and the Monocacy watershed. A Marsh Wren at Lilypons on Feb. 15 (Wallace) was rare for winter in the Piedmont.

Table 1. Carolina Wrens on Christmas Bird Counts in 1980

<u>Section</u>	<u>No. of CBC's</u>	<u>No. of Carolina Wrens</u>	<u>Party-Miles on Foot</u>	<u>Carolina Wrens/Party-Mile on Foot</u>	<u>% Increase 1979 to 1980</u>
Allegheny Mt.	1	0	35.5	0	0
Ridge & Valley	3	190	195	0.97	59.0
Piedmont	6	472	623.5	0.76	52.0
Coastal Plain	12	1,572	1,121.5	1.40	27.3

Mimids, Thrushes. Northern Mockingbirds are not often reported to this column; however, from Western Maryland where they are less common I received a few notes. Wilkinson found one near Cumberland, Jan. 7, and one at Frostburg, Feb. 25. Pope reported one near Sand Flat north of Oakland on Feb. 26. A wintering Gray Catbird was at Denton, Feb. 20 (Knotts), and a Brown Thrasher visited a Greensboro feeder, Jan. 17 through Feb. 16 (Hewitt). Both species were scarce this winter. Evidence of the early spring migration was 400 American Robins in Talbot County, Feb. 11 (Reese), and 40 feeding on sumac along Dry Run Road, Garrett County, Feb. 26 (Pope). The fifth Maryland record of Varied Thrush was one at the feeder of Don Wilson in Towson, Dec. 4-6. Though others saw the bird, it defied photographic attempts.

Gnatcatcher, Kinglet, Shrikes, Warbler. A Blue-gray Gnatcatcher at Sandy Pt., Dec. 7 (Wierenga), was probably a result of the mild weather up to that time. A Ruby-crowned Kinglet at Evitts Creek, Jan. 24 (Wilkinson), was rare in mid-winter for the mountains. Loggerhead Shrikes have become increasingly rare, but reports came from Downsville, Dec. 20 (Mal-lonee), Oldtown, Jan. 16-17 (Paulus), Patuxent NAS, Feb. 15 (Nistico, Clark), and Trappe, Feb. 17 (Meritt). Warblers were extremely scarce this winter, but Wallace found a Common Yellowthroat at Frederick, Dec. 14.

Icterids. Woodward found a 78% increase in Eastern Meadowlarks at Hughes Hollow this winter over his 1979-80 winter bird counts. Meritt reported a female Yellow-headed Blackbird from Windy Hill, Jan. 1. As always a few "Baltimore" Orioles wintered, including one seen on Dec. 14 by Wallace in Frederick, where 2 others were reported at feeders, 1 in Chestertown, Dec. 27— Feb. 7 (Parks), and 1 in Catonsville throughout February (John Cullom). Harold Winger reported a possible female "Bullock's" Oriole at his feeder in Hagerstown, Dec. 7. The probability of identifying an oriole in this plumage to subspecies is extremely low. The only Brewer's Blackbird reported this year was a male in northern Calvert County, Jan. 2 (Kraus).

Finches, Sparrows. Fran Pope hosted about 65 House Finches at her Mountain Lake Park feeders from Dec. 20 through the season. Common Redpolls were scarce this winter. Keedy reported one in Washington County on Dec. 7, and the Cutchalls reported that one arrived at their Hagerstown feeder on Dec. 13; it was joined by a second bird from Jan. 8 through Feb. 12, and the remaining bird was seen last on Feb. 18. Allen found 7 Chipping Sparrows at Easton on Dec. 15. White-crowned Sparrows were noted as follows: 4 at Tanyard, Dec. 4 to the end of the period (E. Engle), 27 at Lilypons, Dec. 7 (Wallace), 3 immatures at South Pt., Feb. 5 (Slaughter), and Woodward's first wintering bird at Hughes Hollow since 1975. Kraus found a Lapland Longspur at North Beach, Feb. 28, probably a north-bound migrant. On Dec. 7 there were 31 Snow Buntings at Ocean City (Stasz, Ringler) and 10 at Sandy Pt. seen by Wierenga, who also noted 1 there on Dec. 13 and 2 on the 22nd, and 1 on Jan. 18. Warfield found 25 Snow Buntings in a cornfield near Walkersville, Frederick County, Jan. 4, and 1 was at Hughes Hollow, Jan. 26 (Woodward).

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NESTING ATTEMPT OF A NORTHERN HARRIER IN SOUTHERN MARYLAND

Jim Clark

On May 14, 1980, a nest of a Northern Harrier (*Circus cyaneus*) was discovered on a fallow agricultural field at the Patuxent Naval Air Station (PNAS) located in St. Marys County, about 50 miles south of Washington, D.C. Although harriers are common wintering residents at PNAS and other tidewater Maryland regions, only five nests have been recorded for the entire State, with no nesting attempts on the Western Shore (Chandler Robbins, *pers. comm.*).

Initial discovery of the nest was made by Jim Wilson who at the time was plowing the field for spring planting. After most of the field was plowed, Mr. Wilson observed a large hawk fly out of a narrow, unplowed strip (Fig. 1). Mr. Wilson ceased plowing and after locating the nest, contacted me. The next morning I went to the site and flushed a female harrier from the unplowed strip. Subsequently, I located the nest, which had five light blue eggs, the color indicating that they were recently laid (Fig. 2). Additionally, a male harrier was sighted in the immediate area. After I left, the female flew back to the nest.



The field, located on a 300 acre parcel of land completely surrounded by runways and taxiways, was left undisturbed for several days. The base farmer agreed not to enter the area until nesting was completed. On May 22, I returned to the nesting site but all evidence of any eggs was destroyed. Several crows had been observed in the area and additionally, this area had a high index of fox and raccoon activity. With the female flying in and out of the strip, the nest was obviously very susceptible to predators. The female was sighted constantly throughout the summer, but no search was initiated to locate additional nesting attempts.

Wildlife Biologist
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Fig. 1. Location of Northern Harrier nest at Patuxent Naval Air Station



Fig. 2. Northern Harrier nest. U. S. Navy photos

BLUE JAY TURNED SHARP-SHINNED HAWK

Floyd L. Parks

On January 11, 1981, I was conducting the annual Mid-winter Bald Eagle Survey of Lower Kent County, Maryland. The weather in the early winter of 1980-81 had been extremely cold and the ground was snow-covered with up to two inches in the fields. Because of salt and traffic, the shoulders of the roadways were open and numerous flocks of small sparrows were using these areas for feeding.

On the Johnstontown Road in Quaker Neck, as my car approached slowly, a flock of sparrows flew up from the roadside. Just before they reached the safety of a sassafras tree, a Blue Jay (*Cyanocitta cristata*) streaked out in front of the car and struck one of the sparrows in mid-air, causing a puff of feathers. The stricken sparrow fell to the ground and was immediately pounced upon by the Blue Jay which, with some effort, picked it up in its bill and flew to the wood line about 100 yards away across the snow-covered field. The speed of the Blue Jay's swoop and attack was much like that of a male Sharp-shinned Hawk or a Merlin.

Although Blue Jays frequently take eggs or young of other species, few instances of attacking adult birds have been recorded. Forbush (*Birds of Massachusetts and Other New England States*, vol. 2, 1927), perhaps referring to a comment by Townsend (*Birds of Essex County, Massachusetts*, *Memoirs Nuttall Orn. Club*, No. 3, 1905), stated that the Blue Jay "has been known to attack and kill birds as large as the Downy Woodpecker ..." Downs (*Bird-Banding* 29:244, 1958) watched a Blue Jay kill a Purple Finch in May in Vermont, Johnson and Johnson (*Wilson Bull.* 88:509, 1976) saw one kill a Yellow-rumped Warbler in March in Texas, and Master (*Wilson Bull.* 91:470, 1979) watched one kill a House Sparrow that was dust-bathing in August in Pennsylvania.

FEARLESS, CARNIVOROUS MALLARDS

Floyd L. Parks

On January 11, 1981, at Remington Farms in Kent County, Maryland, I found an immature Golden Eagle (*Aquila chrysaetos*) feeding on a dead Mallard (*Anas platyrhynchos*) on the ice on a pond. Very close to the Mallard was a group of about 100 Mallards keeping a small place in the pond open. When the eagle finished eating on one of the duck carcasses and moved to another, some of the Mallards crawled up on the ice, went over to the carcass of their fallen comrade, and began picking up and swallowing the chunks of meat dropped by the eagle. The Mallards had no apparent fear of the feeding eagle, which was within four feet of them.

Very severe winters in the past have caused strange behavior among birds. Cannibalism and carnivorous behavior have been noted before in Maryland. See, for example, Kleen (*Maryland Birdlife* 15:13-15, 1959) and Willey (*Maryland Birdlife* 33:17).

1981 CONVENTION SUMMARY

The 34th annual convention was at a new site and it was one of the few times in its history that MOS did not meet at Ocean City. The Del-Mar-Va Convention Center at Delmar, Md. welcomed enthusiastic birders who began arriving early on Friday, May 8. Registration continued throughout Saturday morning. The attendance passed that of last year and all chapters were represented, as were 14 New Yorkers who were staying nearby.

The guest speaker, Jim Brett, Director of Education at Hawk Mountain Sanctuary, entertained Friday evening with slides and stories of the Hawk Mountain Sanctuary where he works and lives with his family. Jim is an excellent speaker and his dedication to the Mountain is a clear and inspiring message. The evening was a great way to set the mood for a good convention.

After Jim's talk, a late field trip to Elliott Island for Black Rails was well attended. Although the rails did not cooperate, there was little time to fret because the next field trip was scheduled for 4:30 a.m. which left only a few hours for precious sleep.

Saturday and Sunday field trips added more new areas over past birding spots, made possible by the new location. Birders filled the lobby puzzling over programs and consulting maps and asking questions of anyone nearby. Did anyone know what to expect at Leonard Pond or Quantico Wharf? The old favorites were there too. The Pocomoke dawn chorus and the all day Wallops Island trip were as popular as ever.

There were birds around. It was not the most spectacular year, but the 185 species counted for the weekend was considered very good considering the not ideal migrating weather conditions preceding the convention.

The weekend weather was great for the outing. The predicted rains held off until Sunday afternoon as the meeting was closing. No one seemed to mind the prospect of riding home in the rain. This had been a good convention--new birding spots were explored, the old and new friends were there to enjoy, and the accommodations had been excellent. At the annual meeting Saturday night, the members voted overwhelmingly in favor of the motion to return to the same place next year if at all possible.

Martha Chestem

MINUTES OF THE ANNUAL MEETING

The 34th annual meeting of the Maryland Ornithological Society was held in Delmar, Maryland on May 9, 1981. A quorum was on hand when President John H. Cullom called the session to order at 7:55 p.m. Minutes of the last annual meeting were approved as submitted.

On behalf of all members, Mr. Cullom thanked those whose efforts had contributed so greatly toward making this convention a success -- First Vice President Marty Chestem for the excellent arrangements, Chan

Robbins for planning the field trips, and Bob Lyons for the outstanding Bookstore display.

Mr. Cullom reported on upbeat accomplishments of the past year: membership rose to over 2,000 for the first time in four years; convention attendance was up ten percent; four issues of *Maryland Birdlife* were published; introduction of *The Yellowthroat* met with enthusiastic response; special Publicity and Peregrine Committees were established; and one of our most respected members, Dorothy Mendinhal, was awarded an honorary life membership. On the down side, results of the Sanctuary Fund drive were disappointing.

Mr. MacGregor reported on the excellent financial status of the Society. It is his hope that funds will be available for more scholarships in the near future. He thanked the chapter treasurers for their continued cooperation. The Treasurer's complete report will be published in the June issue of *Maryland Birdlife*.

Current membership stands at 2,061, the greatest number since 1976. Executive Secretary Lettie Cullom commended the chapter treasurers for their helpfulness.

Reports of the committee chairmen were heard. They will be printed in the June issue of *Maryland Birdlife*. In conjunction with the report of the Education Committee, Kathy Trever of the Talbot Chapter was granted the Outstanding Achievement in Ornithology award.

The following were nominated to serve as officers of the Society for the forthcoming year: President, John H. Cullom; First Vice President, Martha Chestem; Second Vice President, James Stasz; Treasurer, W. Gordon MacGregor; Secretary, Helen Ford. A motion by Mr. Mason was seconded and passed, directing that nominations be closed and the slate elected by acclamation. The Secretary was instructed to cast a unanimous ballot.

The Secretary read names of those nominated by the chapters to serve as trustees (chapter president is denoted by *): ALLEGANY, Mr. Kendrick Hodgdon, Mr. Robert Hiegel; ANNE ARUNDEL, Mr. James W. Cheevers*, Miss Dorothy Mumford, Miss Rhonda Brown; BALTIMORE, Mrs. Daniel B. Wheeler*, Mr. Robert Ringler, Mrs. Jean Worthley, Dr. Roger Herriott, Mrs. Martin G. Larrabee, Dr. Philip Creighton, Mr. Frank J. Bien, Dr. Alan Ross; CAROLINE, Mr. Oliver Smith*, Mr. V. Edwin Unger; CARROLL, Mrs. Geraldine Newton*, Dr. William Ellis; FREDERICK, Mr. John Helm III*, Mr. Kennedy Maize; HARFORD, Mr. Ellis Porter*, Capt. Lucille Wilson, Mr. Eldred Johnson; HOWARD, Mr. Michael McClure*, Mr. Max Casper, Mr. Paul Zucker; KENT, Mrs. Pat Wilson*, Mrs. Dorothy Mendinhal; MONTGOMERY, Mrs. Lola Oberman*, Mr. Philip A. DuMont, Mrs. Minette McCullough, Mrs. Margaret Donald; PATUXENT, Mrs. Virginia Kuykendall, Mr. Chandler S. Robbins; TALBOT, Reverend Ivan Warren*, Mrs. Lucille Spain, Dr. Robert Trever; WASHINGTON, Mr. Cameron Lewis*, Mrs. Norma Lewis, Mrs. Dennie Winger; WICOMICO, Mr. Hugh Hanson*, Mr. Karl Zickrick. A motion by Mr. Mason was seconded and passed, directing that nominations be closed and the slate be unanimously elected.

Cameron Lewis, president of the Washington Chapter, appealed for assistance from other chapters in monitoring the hawk flights at Washington Monument State Park. He also extended an invitation to join his club at a weekend outing June 20-21.

Mr. Cullom honored members who were stepping down after distinguished service to the Society: Ben Poscover, outgoing Second Vice President; Barclay Tucker, who served as MOS President as well as chairman of both Bylaws and Sanctuary Committees; and Bob Lyon, retiring as manager of the Bookstore.

The meeting adjourned at 8:55 p.m.

Helen M. Ford, Secretary

PRESIDENT'S REPORT

John Cullom

I think that after you read the chapter and committee reports included in this issue, you will agree with me that the MOS has had a very exciting and successful year. Some of the high points, as reported in the minutes of the Annual Meeting, were: membership is above 2000 for the first time in four years, the convention attendance was up ten per cent over last year, four issues of *Maryland Birdlife* were published, and "The Maryland Yellowthroat" was hatched. Probably the most exciting event was "The Maryland Yellowthroat." This newsletter supplements the *Maryland Birdlife* with topical and dated news. The response has been very good and the credit goes to the Publications Committee and, in particular, editor Dan Boone.

Our annual convention had a new twist as this was the first time in many years that it was not held in Ocean City. The new location at Delmar had such excellent accommodations and the new birding possibilities, particularly those on the bayside, were so exciting that we have decided to return there again next year.

The success of the MOS year after year is due to the efforts of all the officers and planners of all the chapters and to all the members who participate in the various activities. The ultimate credit goes, of course, to the birds that continue to hold our interest and attention from dawn's early chorus until late at night, year after year.

I am looking forward to another good year and I hope to see many of you at meetings and on bird walks.

437 Paradise Ave.
Baltimore 21228

ANNUAL REPORTS OF LOCAL CHAPTERS

ALLEGANY COUNTY CHAPTER

The theme for 1980-81 was "Exploring Allegany and Garrett Counties." The main idea was to save gasoline and really find out what is in our own backyard.

At the annual banquet, at Penn Alps, Grantsville, on Sept. 24, Dr. Alta Schrock, a native of the area and retired biology professor at Frostburg State College, took us back to the way things had been before modern machinery had altered the landscape. It was a delightful trip down memory lane. In conjunction with Allegany Community College, we again sponsored a series of four Audubon lectures: Thomas Sterling's "Land of the Woodland Drummer," Kent Durden on the "Gifts of an Eagle," Fran Hall's "Kookaburra Country," and Tom Diez' "Adventures in Penn's Woods."

On Jan. 21 Kim Titus and Floyd Presely talked of their studies of birds of prey for the Allegany Environmental Laboratory. They are both bird banders and Mr. Presely is also a falconer. We learned a great deal about bats and snakes of the area from another group from the Environmental Laboratory on Feb. 18 when Ed Thompson, Rich Raesly and Liz Griffin presented a fascinating slide program. Our last program was "The Flora and Fauna of the C & O Canal" by James Paulus and David Forney. Mr. Forney showed a very old movie of the C & O Canal in operation.

On a cold windy Dec. 20, 22 members counted 12,475 birds of 84 species on the annual Christmas Bird Count. John Willetts was the compiler. From preliminary reports we had a good count of about 133 species by 18-20 members on the May 2 Count.

We also sponsored a "Bird Watching" class taught by Kendrick Hodgdon at the La Vale library from Sept. 10 through May 2. Classes were well attended, and several of the students became proficient enough to help with the May Count. These classes have also helped to increase our membership and to introduce our chapter to newcomers and casual bird watchers many of whom have made substantial contributions to the organization. Thanks, Ken!

Junior Nature Camp was held on June 16-20, with 160 4th, 5th, and 6th graders attending. Fred Taylor, a local high school science teacher, was director, assisted by Helen Brake, Alverta Dillon, William Devlin, Claire and Van Harris, Ethel and Robert Hiegel, Dorothea Malec, Mabel Matlick, Harriet Williams, and John Willetts. Kendrick Hodgdon was overall director. Plans for 1981 Nature Camp are in progress.

We have enjoyed this season's exploration of our own area and hopefully are more appreciative of our resources.

Dorothea M. Malec, President

ANNE ARUNDEL CHAPTER

Celebrating its 25th anniversary as an MOS chapter, the Anne Arundel Bird Club had a very full and active year. In two planning sessions the Board arranged 2 picnics, 7 lecture programs, 23 field trips, and 2 bird counts. The kick off picnic, hosted by Hazel Keith at Huckleberry Hill, was honored by the presence of five charter members of the chapter: Chan Robbins, Friel Sanders, Ed Barry, and Jim and Libby Wood.

A cumulative total of 379 persons attended the monthly meetings, which featured as speakers Elmer and Jean Worthley on "Some Plant-Bird Relationships," Jackson M. Abbott on "Bald Eagles in the Chesapeake Region," Dr. J. William Oberman on "Birds of Arizona," Dr. Robert W. Trever on a "Birding Adventure in Peru," David W. Holmes on "Tepuis, Toucans and Todies," and the film "A Heron Named Bill" and members' favorite slides.

The annual wildlife program, begun in 1967, was named in memory of Richard E. Heise, Jr., who as an active member had served the chapter in many capacities including as its President from 1974 to 1976. The program consisted of three films, "Flight for Survival," "Birdbrain," and "Desert Place," attracted 75 persons, and contributed \$407. for the MOS scholarship and sanctuary funds.

With two field events yet to go, organized chapter forays have had a cumulative total of 159 participants and listed 244 species of birds. The most popular field trip remained Sandy Point as led by Hal Wierenga, which had 25 eager followers in November. The new MOS newsletter, *Maryland Yellowthroat*, attracted members of five other MOS chapters to join our field trips. The weekend trips to the Outer Banks of North Carolina with 104 species and the 9th annual Winter Weekend with 103 were tops among locally organized events for listers. Birds of significance on Club trips included Orange-crowned Warbler, Great Cormorant, Lesser Black-backed Gull, Golden Eagle, the "dubious" duck, and a Barnacle Goose. A Black Bear crossed the path of one field trip and American Crows were observed mobbing a Red Fox on another. Statistics were kept on each field event including a running total of how often each species was observed during the Club season.

The Annapolis Christmas Count, expertly coordinated once again by Hal Wierenga, had a sizeable number of volunteers who helped tally at the home of John and Helen Ford an unofficial count of 114 species. The May count, scored by Ellen Gizzarelli, also produced excellent results with only ten field hands reporting 160 species. Nineteen members journeyed to the MOS convention in Delmar.

Members gave illustrated lectures or led field trips for a number of schools, garden clubs, senior citizens' groups, and civic organizations. Among these were the Naval Academy Primary School, Chesapeake Environmental Research Center, Indian River Garden Club, Annapolis AARP, Severna Park Elementary School, Folger McKinsey Elementary School, Theos,

and Ki-wives. An educational exhibit about the birds of Maryland installed by the chapter at the Naval Academy Garden Club Flower Show earned a special state award from officials of the Federated Garden Clubs of Maryland. As the season closed, plans were made with the staff of Sandy Point State Park for a summer birding workshop to include a lecture and series of walks at the Park.

The chapter was very proud to boast of four applicants for MOS scholarships to Audubon camps and even more proud and jubilant when two members became winners. Pamela Lee, a teacher at Magothy River Middle School, was awarded the Orville Crowder Memorial Scholarship, and Marilyn VonScyoc, a teacher and media specialist at Manor View Elementary School, won the MOS Scholarship.

The season marked an all time high in membership with 130 individuals, including 23 new members. Thanks to my fellow officers, our speakers, hostesses, and field trip leaders, we had a very successful and enjoyable year.

James W. Cheevers, President

BALTIMORE CHAPTER

With the backdrop of our long-established activities, there are several outstanding things to report from Baltimore Chapter. Two factors came together to produce an important involvement for us this year. First, and this happened several years ago, we have been the recipient of a bequest by a former member, Dorothy Blake Martin. The money is invested and has been accumulating interest. Second, The Nature Conservancy has been establishing a wilderness along Nassawango Creek in Worcester County. Having been made aware of the importance of the tract of land to Maryland birdlife as well as the birdlife along the entire Atlantic Flyway, we voted to make a significant contribution to the project. We appreciated the opportunity to use some of the money from the Dorothy Blake Martin Fund to this end.

It is also exciting to report that public recognition was made of the Baltimore Chapter exhibit at the Baltimore Flower Show held at the Convention Center in March. Irene Sacilotto's photographs and the MOS mounted bird specimens interested the public as well as the judges who gave it the First Place ribbon among the educational exhibits. The ribbon is proudly displayed in the MOS Museum at Cylburn.

Education is one of the primary purposes of the MOS and we continue to direct vigorous efforts in this direction. Many of our educational activities are interwoven with the activities of other organizations working at Cylburn. The MOS Bird Museum, with its mounted specimens and skin collections, has become a focal point not only for ornithological studies, but also for artists, photographers and carvers. You will notice that the mounted specimens are arranged as far as possible in taxonomic order, the large bluebird exhibit, seen as you enter, being the outstanding exception to that order. School groups, this year including over 2,000 students, were guided through the museum and along

Cylburn's nature trails and gardens by volunteers scheduled by our Chapter. The Saturday Natural Science Series has presented 8 programs with a wide range of interest, including the always popular bird banding demonstrations, to over 500 children. We cooperate with Cylburn's Naturalist by supplying bird seed for him to keep the feeders filled for the benefit of the feeding birds and for the bird observers.

Our 22nd annual Junior Nature Camp of June 1980 attracted leaders and junior naturalists from 6 Maryland counties, 1 from New Jersey: 65 campers and 30 leaders exploring the Hashawa Environmental Center near Westminster in Carroll County during a weekend stay. Our Extension Service provided speakers and audio visual equipment for bird study to many groups: garden clubs, school classes, recreation projects.

The Baltimore Chapter provided added service to the public by supplying answers to approximately 1000 telephone calls ranging from general questions about the MOS to how to keep woodpeckers from destroying ones cedar shake house. In addition to giving advice on how to care for orphaned birds, we assisted in the rescue of injured hawks and owls.

A strong mixture of public attention and education is furnished for Baltimore Chapter by The Bookstore. It has participated in 14 shows this year in addition to its permanent location at the home of its chairman and at its Annex at The Irvine Natural Science Center. The expansion of its inventory has made it the most ready source of books about birds and other natural sciences in the Baltimore area.

We have received mention in various newspaper articles as well as being included in the weekly Special Events columns in the local newspapers. Posters have been placed around town advertising our Audubon Lecture Series. Television coverage was given to that newsworthy visit by the Snowy Owl. MOS member Ranger Warren Bielenberg, the discoverer of the owl at Fort McHenry, informed the television public about the habits of Snowy Owls.

Our Annual Program kept our membership moving from one good birding spot to another, focusing our binoculars on the birds in the Baltimore City-County "Hot Spots" with an occasional foray along the Atlantic Coast and the shores of the Chesapeake Bay. In this respect we are bowing to the high cost of gas and the need to conserve. We do not feel that this has unduly limited our opportunities to see a highly satisfying sampling of birds, from the rolling hills of northern Baltimore County to the river mouths and marshes surrounding Baltimore Harbor. Lake Roland has been receiving intense scouting, fall and spring, for close to the entire 45 years of our existence, and continues to help us chart the progress of migration through the area. Rare birds that seemed to seek us out this year as we stayed close to home included: Varied Thrush, Reeve, and Glossy Ibis, in the Loch Raven watershed; Saw-whet Owl on Tyson Street; Snowy Owl at Fort McHenry; Eared Grebes and a Red-throated Loon at Masonville in the Harbor area; and a Black-bellied Plover and Wilson's Phalarope at the Sewage Treatment Plant.

The Annual Program offered 5 series of programs:

1. Ornithology Course: 8 lectures on endangered species of birds and birds approaching or recovering from being endangered.
2. Nature Photography Course: 8 lessons, including a comprehensive coverage of landscape and wildlife photography.
3. Come-As-You-Are Teas: Travel from Oregon Ridge to South America with MOS members.
4. Socials: Talks by Luther Goldman, David Pittinger of the National Aquarium, and Fred Beall of the Baltimore Zoo; Visit to The Peabody Library to see the Audubon Elephant Folios and all their other rare and antique books about birds.
5. Audubon Wildlife Film Lectures: 4 illustrated lectures about the wildlife of Newfoundland, Australia, Pennsylvania, and South Africa.

All of these services, programs, and niceties were offered to the membership of 642: 517 renewed members, 95 new, and 30 life members. Communications among this large and distinguished membership were always handled in excellent fashion by our Newsletter Editor Donna Selway and our Newsletter Productionist, Marge Shipley. We are well aware that these two women are the almost magical force that holds us together and keeps us on course in our heroic quest to study the bird life of the Baltimore Metropolitan Area.

Joy Wheeler, President

CAROLINE COUNTY CHAPTER

Our season started with 37 members sighting 129 species on the annual May bird count. On Friday June 13th we had a picnic at Tuckahoe Park, home of the champion Overcup Oak, which was saved from destruction with the help of many of our club members. Weather was beautiful.

The fall program was put in gear with member Steve Westre talking about the ultimate fresh water fishing challenge - the muskie. In October member Doug Pyle talked on bee keeping, displaying several items of equipment. For the month of November Marianna Nuttle showed the North America Bluebird Society's slide program on bluebird trails. She also talked on her experiences with bluebirds at the Caroline County Country Club golf course. She also displayed some bluebird nests from boxes on this bluebird trail. The Christmas Bird Count came next with 40 members participating and 92 species observed.

Starting off 1981 was Kathy Klimkiewicz from the Patuxent Wildlife Center with her fine program on Purple Martins. This was especially welcomed because of the great number of martin colonies in the county. Member Marvin Hewitt, for February, gave a slide presentation on his western trip of last summer. A roadside clean up day took place on Sunday March 8th at the Pelot Sanctuary. This area seems to be a favorite disposal site for beer cans and bottles. Well known Chan Robbins gave a slide illustrated presentation on warbler songs for our March meeting. Our apologies for those inconvenienced by our giving the *Maryland Yellowthroat* an incorrect date on this meeting. Roberta Fletcher

ended our season's talk programs in April with colored slides on local weeds and wildflowers of Caroline County.

Marianna Nuttle was instrumental in having posters made for display at the county library and other locations with the hope of stirring up interest in the chapter. These posters incorporated a feature for changing the program titles each month. Our species charts made by Tom Robbins where members posted their bird sightings at each meeting resulted in a total of 163 Caroline County species for the 1979-1980 season.

Our season ended with 40 paid members.

Oliver L. Smith, President

CARROLL COUNTY CHAPTER

As a fledgling chapter of the MOS, the Carroll County Chapter is just beginning to stretch its wings. We held 7 field birding events and 4 meetings during the year. As a group, we seem to be more enthusiastic than organized. We do hope to publish a schedule of events for the entire 1981-82 birding season. We have decided on a meeting schedule that accommodates almost everyone: 4 times per year, on the 2nd Monday in February, 2nd Tuesday in April, 2nd Wednesday in September, and 2nd Thursday in November.

Our first field trip in the 1980-81 season was a joint walk with the Baltimore Chapter to the Glen Falls area of Liberty Lake. Walks were also held at Piney Run Park, the Strawbridge Estates section of the Liberty Lake Watershed and Margaret Stevenson's farm in Pleasant Valley. Two canoe trips, on the Pocomoke and Monocacy Rivers, were quite enjoyable. A total of 31 birders produced a record 98 species for the 4-year old Liberty Reservoir Christmas Count circle, in spite of very cold weather.

Chapter meetings were enjoyable and informative. They included viewing slides of birding trips to Florida and Texas by Margaret Stevenson, and movies borrowed from the library which depicted the life histories and breeding behavior of Adelie Penguins, Starlings, and hummingbirds. A highlight of the birding year was a White-winged Crossbill observed by many members at Nathan and Bonnie Webb's feeder in Westminster on November 23. It was a life bird for all of us.

The Carroll County Chapter has embarked on a project that many chapters have begun, but only three have completed: a Breeding Bird Atlas. Bill Ellis is coordinating the effort and compiling the data. With so few active birders in the county, volunteers from other Chapters are being solicited: adopt a quarterblock, and experience the joy of breeding birding! (Contact Bill Ellis at 795-7985 or 781-7113.)

The Chapter is small and growing slowly, but the solid core of active members assures a continued growth. We wish to heartily thank those birders in other chapters who helped us to get started, particularly Bob Ringler and Rick Blom.

William Ellis, Ph.D., Secretary

FREDERICK CHAPTER

The 1980-1981 season was a good one. We were able to add 14 new members, our meetings averaged 35 people and our field trips were well attended. Members Ken and Carolyn Maize were active in the community, both giving presentations on birding and MOS to some civic clubs in Frederick County. Reports indicate they did an outstanding job.

Our programs were varied, interesting, and well presented. The most popular meeting was Larry Hindman's presentation on ducks and geese of the Chesapeake Bay area, with hints for identification. Dan Boone, David Holmes and Margaret Donald introduced us to the birds and ecology of Costa Rica, Venezuela and Latin America, Panama Canal Zone, Trinidad, the Seychelles, Africa and the Galapagos. Closer to home, Jim Paschal presented an interesting talk on the vegetation of the Potomac Region of the Chesapeake Bay and Les Terry showed us how the U.S. Fish and Wildlife Service worked with local residents to clean up a 1978 oil spill in the Chesapeake Bay. Robert Darrow showed us the interrelationships between the distributions of birds and the plants found in their environment, concentrating on Arizona. Kris and Marcia Krishnamoorthy completed our formal programs by sharing their travel experiences in the Smoky Mountains as they observed the plant, salamander and bird life of the area. Our last meeting was members' night. Marilyn Mause had some interesting slides of her Audubon Nature Camp experience. Meredith Springer treated us to some fascinating slides of nesting hummingbirds.

Our field trips included local trips to Lilypons, the C & O Canal and some other local hot spots. We also took a trip to Gude's Nursery and to Patuxent Wildlife Center. Bill Wedell and Kathy Klimkiewicz are to be thanked for their excellent guidance during our trips. Phil Clair was quite active in observing the fall hawk migrations from Washington Monument in Washington Monument State Park. He and his helpers logged a total of 5230 hawks from August through November. Frederick County listed 83 species during the annual Christmas Count.

We are all looking forward to another fine year in 1981-1982.

John D. Helm III, President

HARFORD COUNTY BIRD CLUB

The Harford County Bird Club activities commenced with our annual September picnic and bird walk. Col. & Mrs. Leland Devore hosted at their lovely "Parade Rest" and everyone attending had a very enjoyable time.

Our dinner meetings were held at the Churchville Presbyterian Church and were very well attended. Our November meeting featured the color film, "The Wonderful World of Birds." In January, Dr. Aelred Geis from the U.S. Fish & Wildlife Service presented slides and spoke on "Studies in Urban Bird Populations" including preferred types of food for wintering species. March brought a timely film on the "Snake River Birds of

Prey Sanctuary" in Idaho, which stressed the need for preserving that great natural resource. For our final meeting in May, our members enjoyed the color film, "The Chain of Life," a Fish & Wildlife Service film on wildlife in the Aleutian Islands.

Field trips were kept to fairly local areas because of the fuel situation. Those areas included Bombay Hook Refuge, Susquehanna State Park, Eastern Neck Island and Aberdeen Proving Ground. Many school groups visited tum Suden Sanctuary near Bel Air and as usual, Barbara Bilsborough showed great skill and patience in demonstrating her banding techniques. A new banding station was set up on Aberdeen Proving Ground by special permission and has proved to be quite productive. A feeding schedule was maintained to provide feed throughout the winter months at tum Suden. Those volunteers are greatly appreciated.

For the second consecutive year, a White-fronted goose has appeared at the Winfield Mitchell farm pond along with the usual Canada geese. The Mitchells are active members and were very hospitable to those who came to see this unusual visitor.

Harford County can boast of a very unique personality who does a tremendous job of informing and delighting a county wide audience. We refer to Todd Holden, better known to his loyal radio listeners, as "Birdman." Todd, who is a member of our chapter, gives daily spot radio reports on many aspects of birding, feeding information and migration reports and sightings. A more dedicated bird lover is yet to be found.

The chapter supported, with a letter writing campaign, the legislature that would continue the Snake River Bird of Prey Sanctuary in its wild state and prohibit the development of this extremely fragile habitat. We also corresponded with the Department of the Interior requesting their continuance of financial support to Cornell for the Peregrine Falcon reintroduction effort headed by Dr. Tom Cade.

Many members participated in the Christmas Count and the May Count. A clean up day is planned for May 23 at the tum Suden Sanctuary.

Much credit goes to the officers and committees of our chapter, without whom our club could not function. We look forward to a productive summer and we'll be anxious to resume club activities in the fall.

Ellis C. Porter, President

HOWARD COUNTY CHAPTER

Only minimal changes were made to the chapter's programs during the 1980-1981 period. Attendance at field trips and monthly meetings was gratifying but below what might be expected with a membership in excess of 140. In order to meet the diverse interests of our membership, the chapter sponsored its first winter star watch. Despite the sub-zero weather the evening event was well attended. Numerous constellations were defined; Jupiter with four moons and Saturn with its rings were seen by all. To top the evening there were slides taken by the Voyageur satellite on its pass-by of Saturn.

Also under the heading of varied interests is the Chapter's effort to catalog the wildflowers of Howard County. Of interest is what wildflowers exist in the county as well as their earliest and latest blooming dates. This study is proceeding in stages. Current plans call for the publication of results from the three year study of spring wildflowers before the next spring blooming season. The early summer wildflower study is in progress. Thanks to Chuck Dupree and Bob and Jo Solem for conceiving the wildflower study idea and caring for its daily operation.

This was the second year for the chapter's seed sale. When this program was begun there was no idea how it would be received. The meager beginnings of 1800 pounds of seed last year culminated with 8500+ pounds of sunflower seeds, thistle, sunflower hearts, and mixed seed being ordered this past January. The State MOS might note that the success of the seed sale program has enabled the Howard County Chapter to maintain its present dues with no increase. Thanks are due Eileen Clegg for her continued efforts at orchestrating the November and January sales.

Of the many events held during the year, the one that stands out most in everyone's mind is the February "pot luck" dinner. This event is always well attended; good food and conversation abound. The evening ends with members showing their slides. The photographic efforts span the range of general nature shots to recent trips around the world to birds on the backyard feeder. It seems the slides get better every year, both in diversity and quality.

The chapter is continually striving to make non-club members aware of our activities. Talks have been presented by chapter members to schools, garden clubs, and Boy Scout troops reaching over 550 people. Several field trips were co-sponsored with the Howard County Department of Recreation and Parks. These trips are extensively publicized and well attended. In addition, Recreation and Parks sponsors a 'Recreation Expo' each spring. The chapter maintains a booth stocked with mounted birds; some are for viewing only, others are for viewing and touching. Club brochures and old newsletters are freely distributed to interested people. All of these activities have resulted in several new members and better community awareness of the chapter's beneficial and recreational activities.

Michael D. McClure, President

KENT COUNTY CHAPTER

A very interesting program on the problems of Waterfowl Management was given on Oct. 2 by Mr. Edward Soutiere, biologist, and assistant manager of Remington Farms. The covered dish supper on Oct. 16 at Remington Farms was quite successful with about thirty members and guests contributing to and partaking of everyone's covered dish efforts. The program on Nov. 6 was presented by Mrs. Margery Plymire who took a trip to the Galapagos Islands with the Sound Research and Recording Laboratory of Cornell University in February 1979. Mrs. Heather Iler, well known bird and wildlife photographer, showed many excellent pictures of birds

and animals on Dec. 4, some well known, and some not so well known. At this meeting we also had a report from Mrs. Pat Wilson on the fine progress of the Junior program which she is establishing again for another generation.

On Feb. 5, after the usual period of refreshments before the meeting, Mr. James Anthony gave a very interesting and helpful talk on "Plantings to Feed and Shelter Beneficial Birds." There was to have been a "Member Participation Program" on Mar. 5, but owing to the early arrival of the snow, and the later arrival of a few members it became an informal social and bird story telling time. The absentees missed a good impromptu program. The speaker on Apr. 2 was Ms. Lynn Frink, a member of a Wilmington, Delaware group, that has for years been treating waterfowl that were trapped in oil slicks on the river. Her film must have run for an hour, and every minute of it was interesting and educational. The May Bird Count showed 160 species.

The annual picnic of the Kent County Chapter was held on June 4 at Damsite, the home of Mr. and Mrs. Edward Mendinhall. The 26 people who braved the promised rain, moved inside with their picnic baskets, and after supper, we had movies! Maggie Duncan had obtained a film on the wildlife of The Atchafalaya swamp, and the outstanding photography and the accompanying sound were thoroughly enjoyed. After the rain had let up, Floyd Parks took some of the hardier ones on a belated bird walk. Thank you, Ed and Dottie, for the use of your place.

Joseph Blair, President

MONTGOMERY COUNTY CHAPTER

The Montgomery County Chapter moved to a new meeting place in the Kensington Public Library, and therefore had to change its meeting date to the third Wednesday of every month.

Once again our Program Chairman, Kathy Klimkiewicz, provided us with a splendid array of speakers. In September, Dr. Eugene Morton informed and disturbed us about the survival prospects of some of our forest-dwelling birds in his talk on "North American Bird Adaptations for Survival in the Tropics." In October, Erika Wilson whetted our desires to travel to Hawaii with her discussion of "Po'ouli and Other Hawaiian Birds." In November, Mark Fuller enlightened us on "Raptor Research in the Eastern United States." In December, Roland Wauer fanned our urges for southern travel as he told us of his "Favorite Birding Spots in Mexico." In February, Bill Oberman delighted us with "Birds of Arizona." In March, Claudia Wilds meticulously dissected for us the subtleties of the identification of "Shorebirds." In April, Holly Obrecht presented his research on "Directional Thermal Soaring Preferences in Vultures." And we are looking forward to having "Fun with Ferns" with Margaret Donald in May.

Our January Social, once again ably organized by Ann Mitchell, was another tremendous success, attended by 128 people and producing a

profit of \$399.38 for the Chapter.

The Field Trip Co-chairmen, Ives Hannay and Harvey Mudd, organized a fine program of trips. They and the trip leaders are all to be thanked for providing another great year of varied and enjoyable trips for us all.

Our useful calendar of Chapter events was again compiled by Lola Oberman; Pat Moore provided the lovely cover drawing of Screech Owls. The much-consulted membership directory was produced by Helen Meleny for yet another year.

On our Christmas Count, again superbly coordinated by Bill Oberman, 106 species were recorded by the 115 participants. All who could attend enjoyed the post-Count tally rally hosted by Lola and Ted Oberman.

Our May Count was for the first time under the direction of Manuel Lerdaui; initial reports suggest a very successful Count.

The scientific and educational activities at Adventure continued at the same highly productive level as in the past, under the infectiously enthusiastic leadership of Margaret Donald. Among the noteworthy records for the year was the banding of 791 Swainson's Thrushes in the fall of 1980.

The bird seed sales efforts of Bob and Ellen Caswell this year netted about \$130 for the MOS Sanctuary Fund.

Henry Bielstein, the new editor of our newsletter, earned the appreciation of us all for his efforts on this time-consuming task. Although we have decreased the number of newsletters to mailings only approximately every other month, several new sections have been added, and all are enjoying the results of Henry's efforts.

John Malcolm took on the new job of coordinating our relationships with the State MOS Publicity Committee and with the editors of *The Maryland Yellowthroat*.

Finally, I would like to thank all the other Chapter officers: Lola Oberman, Vice President; Rich Bray, Secretary; Ed McKnight, Treasurer; Kathy Klimkiewicz, Phil DuMont, and Margaret Donald, Trustees; Mieke Mehlman, Delores Grant, Marion Mudd, and Grace Sims, Directors; for the dedication and effectiveness with which they fulfilled their responsibilities.

The support and assistance of all those I have mentioned above, and the friendliness and enthusiasm of all our Chapter members, have made it a pleasure for me to serve as President.

Frank Witebsky, President

PATUXENT CHAPTER

This has been a difficult year for the Patuxent Bird Club. Our president, Sam Droege, had to leave in mid-year to attend graduate school. The vice president was unable to take over because of a night shift job. Then the Nominating Committee had difficulty finding persons willing to serve. However, these problems are now cleared up; and in spite of them we had a successful program year featuring eight live programs. I would like to take this opportunity to publicly acknowledge the contributions of the speakers toward this success. Dr. Donald Messersmith spoke to our Chapter for the 12th straight year, describing some aspects of natural history in Europe. A Chapter member, Ernie Blanks, who is a waterfowl decoy carver, came and showed some carvings while demonstrating the art. Gary Taylor, from the Maryland Wildlife Administration, explained what the state is doing to protect and encourage endangered species. Tad Eareckson fooled most of us often and all of us occasionally with his guess-a-bird slides. In addition, we heard from Chapter members Jo Solem, Chuck Dupree, and Paul Leifer. We had three field trips, the most successful of which was to Danny Bystrak's banding station.

The Chapter members voted to pay \$250 of the cost of blasting a pothole in the marsh at Irish Grove for the purpose of improving the habitat for wildlife. We also donated money to the Sanctuary Fund and the Helen Miller Scholarship Fund. Our Chapter dues have remained unchanged since the Patuxent Bird Club was formed in 1962. As a result, most of our funds come from the efforts of either Eleanor Robbins, who sells bird seed and books, or Paul Leifer, who runs a recycling effort for the Chapter. Paul has converted over 20,000 pounds of trash into over \$400 for the Chapter treasury.

Paul Bystrak, Acting President

TALBOT COUNTY BIRD CLUB

Our regular meetings were held on the third Wednesday night of each month in the Maryland Room at Loyola Federal Savings and Loan Assn., September through April. A series of interesting programs included such diverse subjects as "The Outward Bound Experience" by Michael Spain, "Birds of Prey" by Steve Goodbred, Harold Morrin's pictures of birding in Australia, two programs on European fall migration by Dr. Robert Trever, a slide presentation by Eleanor and Bill Clark about a birding trip to California last year with Pandion (Dick Kleen's tour—other members who had gone on this trip joined in with reminiscences), and a program on the Mute Swan by Jan Reese.

In August 1980 we had a field trip to Chincoteague and in October a weekend trip to Hawk Mountain. During the Waterfowl Festival in Easton, 14 of our members assisted in the exhibit of the Elephant Folio at Loyola Federal. The Sunday morning breakfast walks began on Sept. 7 and continued through October, with breakfast at the home of a member after each hike. In February we had a rainy weekend trip to Irish Grove and

Ocean City. The spring walks began on Apr. 5 and will continue through May 17. Two of these will conclude with picnic breakfast at our own Mill Creek Sanctuary.

The Christmas Count took place on a very cold and windy Dec. 21, with Jan Reese as leader. Fifty-six birders gathered for the potluck supper that evening at St. Michaels High School; 98 species were tallied. Lester Coble is leader of the May Count. Dick Kleen will lead a weekend field trip to Brigantine Refuge in mid-May, and Lester Coble is in charge of the June trip to Carey Run Sanctuary.

The four Audubon film lectures were well attended; chairman Erica Woodman did her usual excellent job.

Lucille Spain, President

WASHINGTON COUNTY CHAPTER

Membership in this Chapter increased by 25 during 1980-81. We have continued to meet in the Maryland Room of the Loyola Federal Building, 32 North Potomac Street, Hagerstown, from September through May, except in December. These meetings have been held on the fourth Tuesday of the month, at 7:30 p.m. We have published our Newsletter in each of these months. Through announcements in the local newspaper, we welcome anyone interested to attend. We met outdoors informally in June, July and August.

In the 1980 May Count, 149 species were reported by 11 parties totaling 24 persons, covering Washington County. In the 1980 Christmas Count we logged 82 species with 37 participants working in 16 parties. A dinner was held afterward for counters and compilation at the Lewises'.

Programs at meetings during fall, winter and spring presented a wide variety of interesting subjects: bird photography, African birds and other wildlife, Assateague ponies, Humpback Whales, stinging insects, Mount St. Helens volcano, and an evening of members' slides. A demonstration of freshwater stream life was given at the July picnic.

At least two field trips were scheduled each month, with an average attendance of 20. Attendance at regular meetings averaged 38. Fall hawk migrations have been monitored at Washington Monument tower near Boonsboro regularly for the last three years, and data from the "Hawk Watch" have been reported to HMANA. Persons from our Chapter have organized the scheduling for these observations and have welcomed assistance from birders from other chapters and states.

Six members and families have maintained very productive "trails" of bluebird nest boxes. Increased enthusiasm for birding has led to the forming of a new "hotline" for reporting unusual sightings.

The writer wishes to express his gratitude to all those who have worked so well to achieve a most successful year for our Chapter.

Cameron Lewis, President

WICOMICO COUNTY CHAPTER

The Wicomico County Chapter has enjoyed a year of growth, with our membership approaching 70.

Our monthly meetings included films, slides, and lectures on such diverse subjects as "Birding in the Land of the Mayas" by Dr. William Standaert of Salisbury State College, "The Zoo's Role in Propagating Endangered Species" by George Speidel, Director of the Salisbury Zoo, and "Blackwater National Wildlife Refuge" by John Dennis, author and lecturer. The annual covered dish supper has become a favorite of our Chapter, and was a resounding success again this year.

The Christmas Count provided the chance to have old and new members join forces for fun, education, and exercise. It was an above average count, both as to participation and species.

Finally, the Wicomico County Chapter looks forward to again hosting the annual MOS Convention. We hope that the decision to relocate the meeting site to Wicomico County will prove beneficial to all of our MOS friends.

Hugh Kristian Hanson, President

COMMITTEE AND PROJECT REPORTS

BLUEBIRD PROJECT

A very heavy loss in Eastern Bluebirds through most of the northern part of their winter range was indicated by a 1977 survey [Purple Martin News 12 (7): 15], and there was an additional loss in 1978 [Purple Martin News 13 (7): 1-2]. These declines were believed to reflect effects of the preceding winters, which were among the most severe on record in the eastern states. Bluebirds disappeared almost completely from some previously productive trails, especially in Illinois and Indiana. A modest recovery was indicated by the 1979 survey (Sialia 1:141-143). As the winter of 1979-80 was relatively mild, a further recovery was anticipated.

Bluebird trail operators were asked to report how many of their 1979 nest boxes (or their replacements) were occupied by bluebirds for first broods in 1980. Because some of the trails were lengthened in 1980, operators were also asked to report the total number of boxes used for first broods in 1980. Reports were received from 13 trail operators in Maryland. Of 257 boxes available in 1979, 85 (33 %) were occupied that year, and 101 were used by bluebirds in 1980, for an increase of 19%. In 1980, 102 additional boxes were made available, for a total of 359. Of these, 135 (38%) were used for the first brood. The continental first-brood figures for the Eastern Bluebird showed an increase of 8.4% based on 3,103 boxes that were available both years. See Sialia 3: 3-6 for further details of the survey.

Larry Zeleny, Chairman

BYLAWS COMMITTEE

A meeting was held to discuss the proposed changes in the Bylaws. The committee descriptions have been updated and the Bylaws Committee is continuing to work on revising the Bylaws.

Lee Meinersman, Chairman

EDUCATION COMMITTEE

Program exchange continues to be popular with the receiving chapters. However, with the Yellowthroat carrying information on chapter activities and dates, this activity may no longer be needed. This is something that will need to be assessed this coming year.

The Listers Trip year after year proves to be a truly outstanding experience for all involved. Thirty-four listers representing six chapters tallied 139 species on Oct. 11-13. Bob Ringler continues to provide the spark through his outstanding leadership.

Along with the Maryland Association of Science Teachers and the Maryland Association of Biology Teachers, the Education Committee conducted forays to two MOS sanctuaries. Fifteen educators enjoyed all aspects of a weekend trip to Irish Grove on Oct. 31--Nov. 2. The trip included visits to Assateague, dinner at Wright's, and a visit to Blackwater National Wildlife Refuge for eagles on the way home. During June 12-14, 17 participants enjoyed the beauty of Carey Run Sanctuary and the friendship of its chairman, Charlotte Folk. Highlights included hikes about the sanctuary, a study of the stream and pond, a visit to the Finzel Nature Conservancy Preserve with Dr. Melvin Brown, dinner at Penn Alps with Dr. Alda Shrock, and a lecture on "Bee Keeping" by Dan Folk.

The Committee made two presentations of the MOS Outstanding Achievement in Ornithology Award. One went to John Canoles, a student at Hereford Junior-Senior High School in Baltimore County. His project for the Baltimore Science Fair was, "Birds of Prey: Migration Flight." The other winner, Kathleen Trever, was nominated by the Talbot County Bird Club for her outstanding contributions to that organization. The presentation was made at our MOS Convention. This was the first time that a large number of our members had a chance to see and hear about the quality of the recipients of this award. It was a highlight of the Convention.

A Speakers List is in preparation.

Benjamin Poscover, Chairman

LIBRARY COMMITTEE

A ten-year index to *Maryland Birdlife* is in preparation. Alice and David Nelson were given the un-indexed portion, from 1969 to the present, and are at work on the tedious but exciting job of listing titles, authors, and subjects.

Most of the books added to the MOS Library collections at the sanctuaries and at Cylburn have been gifts or publishers' complimentary review copies. This year the committee made its first significant purchase and we refer you to page 84 of this issue for a review of The Audubon Encyclopedia of North American Birds by John K. Terres. This book is kept in the MOS Museum in our headquarters, Cylburn Mansion. It is available whenever the mansion is open, from 7:30 a.m. to 3:30 p.m., weekdays, and on special meeting occasions.

We would also like to make you aware of two books by MOS member Brooke Meanley, one an earlier publication that we have had for a long time (Natural History of the Swainson's Warbler), and the other his latest (Birdlife at Chincoteague), published in 1981. Copies are available from the MOS Bookstore.

Joy Wheeler, Chairman

LONG RANGE PLANNING COMMITTEE

The Long Range Planning Committee continued to work with the Sanctuary Committee, monitoring the progress of the Master Plan for Stewardship Decisions, which is being completed for tum Suden Sanctuary.

President John Cullom asked this committee to assist the Sanctuary Committee in establishing guidelines that could be applied to property under consideration for sanctuary purchase. The Long Range Planning Committee proposed nine items as a beginning for discussion. Presumably they (along with others) are still under consideration.

Two suggestions surfaced from committee members. A way must be found for timely communication among MOS members and between MOS and organizations in adjoining states. This need has now been met by the *Maryland Yellowthroat*. Also, a concerted effort must be made to publicize MOS on a state as well as a local level. Special efforts must be made to reach young families, singles, and novice birders. At least as much effort should be expended in reaching post high school young adults (who can offer MOS participation and leadership now) as is currently spent in reaching children (most of whom seem to leave the area or adopt other interests). The establishment of a Publicity Committee is the first step in achieving this goal.

President Cullom also asked this committee to examine the feasibility of establishing a Birding Committee and to suggest its areas of responsibility. The purpose of such a committee would be to coordinate

all birding activities within MOS. Long Range Planning members suggested that responsibilities might include the following: train field trip leaders; demonstrate field "tricks of the trade"; plan major trips that cannot be arranged easily or profitably by local chapters; develop aids for Maryland birders, i.e., county checklists, binocular repair referrals, and professional contacts within the state; establish a statewide Rare Bird Alert; create a sub-committee of outstanding birders as a decision-making body for acceptance of rare bird sightings, who would receive and keep records and photographs documenting same; establish, when and where necessary, policy and etiquette concerning certain trips or particular species (Swainson's Warbler tape warning recently issued is an example); serve as a liaison with other regional, state and national birding organizations to establish the credibility of MOS as THE authority where Maryland birds are concerned.

The Long Range Planning Committee did not achieve a strong consensus on the establishment of a Birding Committee. Perhaps the topic should be examined by the local chapters to see whether the general membership sees a need for this committee.

Joanne K. Solem, Chairman

PEREGRINE PROJECT

The MOS Peregrine Project was established in January 1981 to serve two purposes:

- 1) Publicize efforts to reintroduce Peregrines to Maryland;
- 2) Coordinate work between the MOS and Cornell's Peregrine Fund in Maryland.

At this time, Peg and John Barber are the sole members of the Committee. No MOS funds have been spent to this date. The Committee will continue to act as liaison between Cornell and the MOS. Requests from Cornell for help with Peregrine work in Maryland will be channeled through the Committee. MOS members are urged to report sightings (or findings) of banded Peregrines in Maryland (away from the Eastern Shore) to me. Age and legs banded should be noted if possible, as Cornell hopes to place young this year that have bands on one leg for males, and bands on the other for females.

The U.S. Fish and Wildlife Service continues to investigate the death of a male falcon from downtown Baltimore last fall.

In 1981, four release sites will be used in Maryland. At the downtown Baltimore site, six young will be substituted for the four infertile eggs laid by Scarlett. Efforts are underway to arrange a Saturday "reception" for MOS members to view and photograph Scarlett and her young.

John C. Barber, Chairman

SANCTUARY COMMITTEE

I am pleased to report that our sanctuaries are being used by educators to serve students from elementary schools and colleges. Also, some of our sanctuaries are used extensively by adults for weekend recreation. For example, Mrs. Folk tells me that Carey Run is booked for May weekends and well into June. On the other hand, tum Suden Sanctuary has almost no use by weekenders. Its ideal location near Baltimore and adjacent to Harford Glen should be inviting to adults for bird walks and a weekend in the country.

Two projects highlight the past year's activities of the Committee, namely, the publication of the revised sanctuary brochure and the joint effort of the Long Range Planning and Sanctuary Committees to expand our sanctuary program. George Kramer has chaired the special joint committee, which has accomplished the following steps toward completing a Master Plan for tum Suden Sanctuary:

- (1) The topography of the Sanctuary has been described and a topographic map of the area procured.
- (2) A book on the soil survey of Harford County has been obtained.
- (3) Hydrologic features of the sanctuary have been described.
- (4) Trails in the adjoining park, Harford Glen, have been mapped.
- (5) Climatological data for the years 1948-71 are available in the soil survey book.
- (6) An index aerial photo has been obtained.
- (7) Ground site photos in the form of slides are available.
- (8) Some history of the sanctuary has been written.
- (9) A copy of the deed and of a land survey have been obtained.

Other activities have been routine. Budget figures recommended by the Sanctuary Committee have resulted in a proposed budget of \$5,248 for the year 1981-82. This figure does not represent all the expenditures on the sanctuaries because the local sanctuary committees supported by their chapters also make contributions toward operation of the sanctuaries.

During 1980-81 I have issued 102 wildlife sanctuary signs to 13 private sanctuary owners.

At the meeting of the Board of Directors that follows this meeting, I will nominate George Kramer to succeed me as chairman of the Sanctuary Committee. I thank all who have worked with me. It has been a pleasure to serve for the past four years. The new chairman begins serving on September 1. To make the transition easy for him I urge all presidents of chapters to submit as soon as possible to the MOS President the names of the members for the State Sanctuary Committee, in accordance with our bylaws.

Barclay E. Tucker, Chairman

ANNUAL REPORT OF THE TREASURER
MARYLAND ORNITHOLOGICAL SOCIETY, INC.
Fiscal Year Ending April 30, 1981

OPERATING FUND

Fund Balance, April 30, 1980		\$ 13,933.15
Transfer from Sanc. Endow. Income (Life Membership Cost)		<u>340.00</u>
Receipts:		14,273.15
Dues remitted by chapters	\$ 7,664.78	
Convention income	789.50	
Interest on savings accounts	1,522.50	
Sale of Field Lists, Birdlife, Subscriptions, Advertising	185.56	
Reimbursements received for Mailing Permit and Printing	20.00	
Return of Grant made in Previous Year	250.00	<u>10,432.34</u>
Expenditures:		24,705.49
MARYLAND BIRDLIFE, printing and mailing	2,027.23	
MARYLAND YELLOWTHROAT, printing and mailing	992.06	
Convention Program	131.62	
Executive Secretary Stipend	2,342.00	
Administrative and Office Expenses	1,287.34	
Research Grants	250.00	
Various Memberships and Donations	170.00	
Garrett County Atlas Project	43.61	
Library Committee	60.00	
Education Committee	<u>69.10</u>	<u>7,372.96</u>
		17,332.53
Transfer Life Memberships Rec'd to Sanct. Endow.		<u>300.00</u>
Fund balance, April 30, 1981		\$ <u>17,032.53</u>

SANCTUARY FUND

Fund Balance, April 30, 1980		\$ 15,365.16*
Receipts:		
Contributions Received	4,225.66	
Interest and Dividends, Sanct. Endowment Fund	2,965.37	
Miscellaneous	<u>519.46</u>	
	7,710.49	
Interest on Anne Arundel Chap. Restricted Gift	<u>527.83</u>	<u>8,238.32</u>
Expenditures:		23,603.48
Property Tax	726.84	
Insurance	894.00	
Repairs	570.71	
Utilities	796.32	
Brochures	802.75	
Grass Cutting	300.00	
Burglar Alarm	200.00	
Miscellaneous	<u>58.67</u>	<u>4,349.29</u>
		19,254.19
Transfer to Operating Fund		<u>340.00</u>
Fund balance, April 30, 1981		\$ <u>18,914.19*</u>

*Beginning and ending balances include Anne Arundel Chapter restricted gift in the amount of \$5,472.45.

	<u>SANCTUARY</u>	<u>ENDOWMENT</u>	<u>FUND</u>	
Fund Balance, April 30, 1980				\$ 31,320.00
Contributions Received		\$ 260.00		
Transfer from Operating Fund		<u>300.00</u>		<u>560.00</u>
Fund Balance, April 30, 1981				<u>31,880.00</u>

	<u>HELEN MILLER</u>	<u>SCHOLARSHIP</u>	<u>ENDOWMENT</u>	<u>FUND</u>	
Fund Balance, April 30, 1980					\$ 14,196.51
Receipts:					
Contributions Received		\$ 2,039.70			
Interest		<u>1,264.69</u>			<u>3,304.39</u>
					17,500.90
Expenditures:					
Scholarships					<u>1,235.00</u>
Fund Balance, April 30, 1981					\$ <u>16,265.90</u>

Reconciliation of Accounts at End of Fiscal Year

Fund Balances, April 30, 1981:				
Operating Fund		17,032.53		
Helen Miller Scholarship Endowment Fund		16,265.90		
Sanctuary Fund		18,914.19		
Sanctuary Endowment Fund		<u>31,880.00</u>		\$ 84,092.62

Fund Assets, April 30, 1981:				
Checking Account, Maryland National Bank		667.03		
Savings Account (Pooled Funds), Loyola Federal		5,162.15		
Cert. of Deposit, Loyola Federal (7.500%)		5,901.78		
T. Rowe Price Prime Reserve Fund		23,130.37		
Dayton Power & Light Bonds (8.000%)		3,012.67*		
Virginia Electric Power Bond (8.625%)		3,992.04*		
Cert. of Deposit, Loyola Federal (7.750%)		3,500.00*		
Cert. of Deposit, Loyola Federal (7.750%)		6,820.00**		
T. Rowe Price Growth Fund		9,500.00**		
General Telephone South East Bond (7.750%)		5,129.92**		
Niagara Mohawk Power Bond (7.375%)		4,983.15**		
Ohio Bell Telephone Bond (7.875%)		4,987.81**		
Cert. of Deposit, Loyola Federal (7.500%)		<u>7,305.70***</u>		84,092.62

*Helen Miller Endowment Securities, at cost

**Sanctuary Fund Securities, at cost

***Special Anne Arundel Chapter Sanctuary Fund with restricted principal of \$5,472.45, at cost plus accrued interest.

AUDITING COMMITTEE REPORT

We have examined the financial records of the Maryland Ornithological Society for the year April 30, 1980 through April 30, 1981. In our opinion the records are in good order and accurately reflect the financial position of the Society.

(Signed) Rodney B. Jones, Chairman
Francis Schreiber

SCHOLARSHIP COMMITTEE

The Scholarship Committee has chosen the following winners of the four scholarships awarded annually for attendance at the National Audubon Ecology Workshops:

Miss Rona Liller, who is employed by the Maryland Forest Service in Cumberland, is winner of the Helen Miller Scholarship. She will be attending the Audubon Ecology Camp in Maine.

Mrs. Marilyn Van Scyoc, who is teacher/media specialist at the Manor View Elementary School at Ft. George G. Meade, is winner of the other MOS Scholarship. She will be attending the Audubon Ecology Camp in Maine.

Mrs. Anneke Davis, who is instructor-photographer for the Baltimore City Bureau of Recreation, is winner of the scholarship funded by the Gardeners' Club of Baltimore. She will be attending the Audubon Ecology Camp in Wisconsin.

Ms. Pamela L. Lee, who teaches art at the Magothy River Middle School in Anne Arundel County, is winner of the Orville Crowder Memorial Scholarship funded by the World Nature Association. She will be attending the Audubon Ecology Camp in Maine.

The Committee wishes to express its appreciation to the chapters for their efforts in finding candidates for these scholarships. We have reason to believe that these candidates will make excellent use of the knowledge they gain by attending the Audubon Ecology Camps they have selected.

A new scholarship will be available this coming fall. It is to be called the Chandler S. Robbins Scholarship and will cover cost of attendance at one of the summer workshops of the Cornell Laboratory of Ornithology. This scholarship will be awarded to a college undergraduate with an established interest in birds who either is or appears likely to become active in the future with youth groups in nature study activities.

Mildred Gebhard, Chairman

STATEWIDE BIRD COUNT, MAY 2, 1981

James Stasz

Henry Armistead expressed the impressions of most of the observers in the eastern two-thirds of the State ... "May 2 was essentially a cold, windy, overcast day with intermittent sprinkles and rain most of the time except for the late daylight period when it cleared, the wind died, and it remained cold." Fran Pope, in Garrett County, reported no rain, but with a low temperature of 30°F and a high of 54°F coupled with 15-30 m.p.h. winds, it was not a pleasant day for birding. Over 300 observers across the State took a "bird-we-must" attitude and logged more than 3,700 miles (690+ on foot!) with more than 1,200 hours of observation.

Worcester County took top honors this year for the most species reported. The past few May Count reports have reiterated how well a

Table 1. Statewide Bird Count, May 2, 1981

	Garr	Alle	Wash	Fred	Carr	Mont	Howa	Balt	Harf	Cecl	Pr.C	Anne	Chas	Calv	St.M	Kent	Caro	Talb	Dorc	Somr	Wico	Worc	Total
Common Loon	10	-	1	-	-	5	9	1	1	-	2	43	-	-	6	-	-	2	6	-	-	7	93
Red-throated Loon	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	1	3
Horned Grebe	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	3
Pied-billed Grebe	3	3	-	-	-	1	-	1	-	-	-	2	-	-	-	-	-	1	-	-	1	-	12
Northern Gannet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	22
Dbl-cr. Cormorant	4	-	1	-	-	1	-	-	-	-	-	8	3	-	78	2	-	-	70	3	7	730	907
Great Blue Heron	2	1	2	3	-	13	3	-	22	-	67	32	42	-	10	56	17	50	27	11	3	27	386
Green Heron	2	6	7	11	-	13	9	6	5	-	20	15	2	-	12	1	5	8	2	2	5	11	142
Little Blue Heron	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-	4	-	5	11
Cattle Egret	-	-	-	8	-	6	2	-	-	-	8	26	-	3	-	2	11	6	15	4	100	367	551
Great Egret	-	-	-	-	-	-	-	-	-	-	-	1	1	-	5	1	-	1	17	22	0	78	126
Snowy Egret	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	7	53	11	1	98	175
Louisiana Heron	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	4	2	-	5	12
Blk-cr. Nt. Heron	-	-	-	-	-	-	-	-	-	-	2	3	-	-	-	1	-	-	-	-	-	2	8
Yel-cr. Nt. Heron	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4
Least Bittern	-	-	-	-	-	-	-	-	-	-	-	2	2	-	-	-	-	-	1	-	1	-	6
American Bittern	-	-	-	-	-	2	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	5
Glossy Ibis	-	-	-	1	-	-	-	1	-	-	8	-	-	-	3	-	-	-	1	27	3	62	106
Mute Swan	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	3	-	10	-	-	2	-	17
Whistling Swan	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	3	-	-	2	-	-	-	6
Canada Goose	6	5	5	5	-	63	54	4	12	-	239	29	-	-	-	349	30	176	122	40	2	106	1247
Brant	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	17
Snow Goose	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	4	6
Mallard	30	48	118	33	6	112	179	71	10	-	103	78	12	-	11	402	37	50	45	53	34	70	1502
Am. Black Duck	2	-	2	2	-	5	4	-	-	-	17	28	-	1	4	12	7	5	21	32	12	14	168
Gadwall	-	-	-	-	-	2	-	1	-	-	8	2	-	-	-	-	-	-	7	5	-	7	32
Common Pintail	-	-	-	-	-	5	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	6
Green-winged Teal	-	-	-	-	-	7	-	-	-	-	10	-	-	-	-	5	-	-	121	-	-	-	143
Blue-winged Teal	13	4	7	16	-	15	-	6	4	-	53	4	-	-	2	2	7	13	34	24	2	7	213
American Wigeon	-	-	-	-	-	-	-	-	-	-	6	-	-	-	-	-	-	-	2	-	-	-	8
Northern Shoveler	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Wood Duck	36	10	101	16	-	86	13	13	10	-	47	6	11	-	-	6	11	13	3	-	6	5	387
Redhead	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	4
Ring-necked Duck	-	2	-	-	-	-	-	-	-	-	3	-	3	-	-	-	-	1	-	-	-	-	9
Canvasback	-	-	-	-	-	-	1	1	-	-	1	2	-	-	-	2	-	-	-	-	-	1	8
Greater Scaup	-	-	-	-	-	-	-	-	-	-	-	2	-	-	1	11	-	-	-	-	-	-	13
Lesser Scaup	1	4	-	-	-	1	-	10	-	-	5	2	-	-	-	-	-	-	-	-	-	-	23
Common Goldeneye	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1
Bufflehead	1	9	-	-	-	3	-	-	-	-	-	10	-	-	-	48	-	1	2	-	-	7	81
Oldsquaw	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1
Harlequin Duck	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
White-wing Scoter	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	6

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Table 1 (cont.). Statewide Bird Count, May 2, 1981

	Carr	Alle	Wash	Fred	Carr	Mont	Howa	Balt	Harf	Cecl	Pr.G	Anne	Chas	Calv	St.M	Kent	Caro	Talb	Dorc	Somr	Wico	Worc	Total
Surf Scoter	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2
scoter sp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1
Ruddy Duck	1	-	1	-	-	2	-	129	-	-	-	32	-	-	-	9	-	-	1	-	-	-	175
Hooded Merganser	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
Common Merganser	-	-	-	-	-	7	13	-	-	-	9	-	-	-	-	-	-	-	-	-	-	-	29
Red-breasted Merg.	-	-	-	-	-	-	-	4	-	-	7	1	-	-	-	1	-	-	-	-	-	14	28
Turkey Vulture	11	91	80	29	7	66	70	34	18	2	44	48	30	6	21	108	223	165	105	47	98	64	1367
Black Vulture	-	-	7	31	-	10	13	-	3	-	4	9	-	-	-	11	3	32	5	1	-	2	131
Northern Goshawk	1	-	1*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
Sharp-shinned Hawk	3	10	5	2	-	6	3	-	-	-	4	45	1	1	-	2	3	4	2	1	-	-	93
Cooper's Hawk	-	3	-	-	-	1	-	2	-	-	2	2	-	-	-	-	-	-	-	-	-	-	10
Red-tailed Hawk	3	10	9	1	1	19	9	9	5	-	18	2	3	-	6	8	6	13	5	1	3	1	132
Red-shoulder Hawk	3	1	-	8	-	22	36	5	1	-	29	7	2	-	3	2	3	-	-	-	1	-	123
Broad-winged Hawk	5	13	23	-	-	4	6	10	1	-	2	9	1	-	1	-	-	-	1	-	-	-	76
Rough-legged Hawk	-	-	-	-	-	2*	-	-	-	-	-	-	-	-	-	-	-	-	2	-	1	-	5
Golden Eagle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1*	-	-	-	-	-	-	1
Bald Eagle	-	-	1	-	-	-	-	-	-	-	1	4	-	3	-	7	2	3	191	-	2	-	43
Northern Harrier	1	1	1	2	-	2	4	-	1	-	6	9	-	1	-	2	-	5	13	4	1	8	61
Osprey	2	5	25	7	-	8	13	10	3	-	44	64	11	1	20	13	12	53	35	4	10	21	361
Peregrine Falcon	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	2
Merlin	-	-	1	-	-	1	1	-	-	-	2	-	-	-	-	-	2	-	-	-	-	3	10
American Kestrel	5	5	14	4	1	4	11	8	10	-	14	8	-	1	4	5	9	7	-	-	1	-	111
Ruffed Grouse	15	-	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24
Common Bobwhite	-	2	26	3	-	28	10	22	3	4	25	18	10	2	11	17	67	66	20	14	8	27	373
Ring-neck Pheasant	-	-	43	16	5	10	25	30	1	-	-	1	-	-	-	-	-	-	4	-	1	1	137
Turkey	6	-	4	-	-	1	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	13
King Rail	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	5	-	-	-	8
Clapper Rail	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	14
Virginia Rail	-	-	-	-	-	-	-	-	-	-	1	5	-	-	-	8	-	-	32	-	1	-	47
Sora	-	-	-	-	-	-	-	2	-	-	1	2	-	-	-	1	-	-	2	-	-	-	8
Black Rail	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
Common Gallinule	1	-	-	-	-	1	-	-	-	-	3	2	-	-	-	-	-	-	1	1	-	-	9
American Coot	-	5	1	-	-	-	1	7	-	-	5	26	-	-	-	-	-	-	-	-	-	1	46
Am. Oystercatcher	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	30	33
Semipalmated Plover	-	-	-	-	-	-	-	7	-	-	-	-	-	-	-	11	-	11	2	-	30	28	89
Killdeer	26	9	21	17	-	7	23	15	1	5	17	11	4	-	-	7	16	31	3	4	13	-	230
Black-belly Plover	-	-	-	-	-	2	-	2	-	-	-	-	-	-	-	2	-	-	-	-	-	73	79
Whimbrel	-	-	-	-	-	-	-	-	-	-	38	-	-	-	-	-	-	-	-	-	-	40	78
Upland Sandpiper	2	-	-	-	-	-	-	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9
Greater Yellowlegs	3	-	2	17	-	5	4	21	12	-	93	25	4	-	26	28	19	54	44	-	7	44	408
Lesser Yellowlegs	6	1	-	45	1	4	14	166	13	-	40	17	8	-	20	7	11	16	156	3	10	49	587
Solitary Sandpiper	27	10	13	24	-	27	60	66	8	-	64	23	-	-	15	5	5	36	6	-	34	8	421

Table 1 (cont.). Statewide Bird Count, May 2, 1981

	Garr	Alle	Wash	Fred	Carr	Mont	Howa	Balt	Harf	Cecl	Pr.G	Anne	Chas	Calv	St.M	Kent	Caro	Talb	Dorc	Somr	Wico	Worc	Total
Willet	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	23	11	3	877	916
Spotted Sandpiper	35	19	39	19	-	36	82	33	10	3	113	47	14	-	10	6	7	15	6	1	10	21	525
Ruddy Turnstone	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	58	61
American Woodcock	5	1	7	1	-	2	1	4	-	-	12	61	-	-	1	6	3	-	8	-	-	-	112
Common Snipe	2	-	2	9	-	3	3	2	-	-	8	1	-	-	-	-	2	2	7	-	1	-	42
Short-b. Dowitcher	-	-	-	-	-	-	-	5	-	-	-	-	-	-	1	-	-	-	7	-	-	25	38
Long-b. Dowitcher	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	2
Sanderling	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	1971	1973
Semipalm. Sandpiper	-	1	-	-	-	5	-	-	-	-	1	4	-	-	2	11	4	28	16	-	4	12	88
Western Sandpiper	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Least Sandpiper	1	2	-	17	-	2	-	127	19	-	9	16	-	-	155	173	30	56	112	2	30	57	808
White-rump Sandp.	-	-	5*	-	-	-	-	-	-	-	-	-	-	-	-	9	-	-	-	-	-	-	14
Pectoral Sandpiper	13	-	7	13	-	4	-	55	-	-	60	-	-	-	1	45	6	7	14	-	-	-	225
Purple Sandpiper	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	60	60
Dunlin	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-	3	-	-	205	-	-	91	303
Stilt Sandpiper	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	1	7
Ruff	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Glaucous Gull	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Gr. Black-back Gull	-	-	-	-	-	-	-	27	3	-	2	233	-	-	1	-	-	-	3	3	3	462	737
Lr. Black-back Gull	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1
Herring Gull	31	1	-	-	-	1	-	44	6	-	23	2446	5	-	365	386	-	6	27	15	22	546	3924
Ring-billed Gull	618	3	5	-	-	19	-	6850	36	166	161	30636	28	5	100	9918	86	209	43	53	112	472	49520
Laughing Gull	-	-	-	-	-	-	-	28	-	-	1	21589	65	16	122	119	485	1116	325	44	678	1479	26067
Bonaparte's Gull	9	-	-	-	-	5	-	25	47	-	20	439	-	-	55	3	-	-	-	-	-	6	609
Sterna sp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	150	150
Forster's Tern	-	-	-	-	-	-	-	-	-	-	3	65	-	-	-	-	-	-	74	3	28	24	197
Common Tern	-	-	-	-	-	1*	-	-	-	-	5	-	-	-	3	1	-	6	2	5	13	254	290
Little Tern	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	12	-	-	20	37
Royal Tern	-	-	-	-	-	-	-	-	-	-	-	-	-	-	83	-	-	-	10	2	7	41	143
Caspian Tern	-	-	-	-	-	-	-	6	-	-	2	4	-	-	-	-	-	-	-	-	-	10	22
Black Tern	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	7
Black Skimmer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	44	44
Rock Dove	5	124	245	167	28	-	477	754	56	7	231	345	9	-	5	52	49	175	9	2	29	73	2842
Ringed Turtle Dove	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
Mourning Dove	41	76	297	137	15	318	320	413	92	15	114	166	68	18	37	133	106	155	41	18	34	32	2646
Yellow-bill Cuckoo	-	-	7	-	-	20	-	1	-	-	4	3	1	-	-	4	5	5	5	1	4	2	62
Black-bill Cuckoo	-	-	3	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	5
Barn Owl	1	-	2	-	-	1	-	6	-	-	-	-	-	-	-	3	1	-	1	-	-	-	15
Screech Owl	1	1	4	-	-	2	-	1	1	-	1	-	-	-	-	3	3	2	2	-	-	1	22
Great Horned Owl	2	-	1	-	-	1	2	1	1	-	3	-	3	-	-	3	2	6	4	-	-	1	28
Barred Owl	1	-	1	2	-	8	7	3	2	-	3	-	3	-	-	4	-	2	6	-	-	-	42
Chuck-will's-widow	-	-	2	-	-	-	-	1	-	-	1	1	-	-	-	2	1	2	6	-	-	1	17

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Table 1 (cont.). Statewide Bird Count, May 2, 1981

	Garr	Alle	Wash	Fred	Carr	Mont	Howa	Balt	Harf	Cecl	Pr-G	Anne	Chas	Calv	St.M	Kent	Caro	Talb	Dorc	Somr	Wico	Worc	Total
Whip-poor-will	4	2	4	-	-	22	5	14	-	-	6	63	-	-	-	7	9	-	-	-	-	3	139
Common Nighthawk	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	-	-	-	3
Chimney Swift	11	78	304	66	1	79	104	55	25	6	218	32	15	6	2	26	69	84	6	8	13	19	1233
Ruby-t Hummingbird	2	3	22	1	-	7	14	5	4	1	4	5	2	-	1	2	1	7	2	1	3	3	90
Belted Kingfisher	1	4	17	4	-	13	16	13	5	-	7	11	1	-	4	-	3	2	-	-	2	3	106
Common Flicker	30	135	144	19	12	39	55	47	20	10	32	43	1	3	5	18	45	41	13	7	6	21	746
Pileated Woodpkr	2	12	41	3	-	23	4	-	-	-	17	5	4	-	-	1	5	-	2	1	1	4	125
Red-belly Woodpkr	4	17	115	46	5	168	125	49	13	2	44	76	19	2	12	20	44	54	12	2	10	20	859
Red-headed Wpkr	6	-	6	5	-	8	-	-	-	-	-	-	2	-	-	-	1	1	2	-	2	2	35
Yellow-b Sapsucker	-	-	-	1	-	3	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	5
Hairy Woodpecker	7	5	16	6	-	4	7	7	4	-	5	11	-	-	2	6	1	4	1	-	-	4	90
Downy Woodpecker	35	28	79	32	4	88	77	30	15	-	36	42	6	-	5	16	25	27	7	3	7	11	573
Eastern Kingbird	1	6	41	7	1	71	23	14	9	-	28	24	16	-	2	18	20	28	7	12	6	6	340
Gt Crest Flycatcher	7	6	85	3	-	65	6	-	2	-	11	24	2	-	2	13	23	45	26	6	11	17	354
Eastern Phoebe	12	29	24	14	1	40	18	16	6	-	16	7	4	1	-	2	19	8	-	1	4	1	223
Yellow-belly Fly	-	1*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Acadian Flycatcher	-	-	8	3	-	14	3	2	1	-	8	2	5	-	4	-	11	1	-	-	1	3	69
Willow Flycatcher	-	-	-	-	-	3*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
Alder Flycatcher	-	-	-	-	-	-	1*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Least Flycatcher	1	2	2	-	-	3	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10
Eastern Pewee	4	1	9	-	-	5	3	1	-	-	3	-	-	-	-	1	3	-	1	-	-	1	32
Horned Lark	3	5	5	26	-	3	5	3	-	-	-	-	-	-	1	8	30	5	2	-	3	7	96
Tree Swallow	133	91	354	21	4	380	272	18	152	150	665	336	18	50	82	1032	458	397	429	5	57	451	5555
Bank Swallow	-	3	81	3	-	44	-	4	3	-	147	439	-	-	25	87	24	124	17	-	-	-	1001
Rough-wing Swallow	26	58	87	23	-	169	43	26	3	-	65	52	2	-	4	14	101	12	-	2	13	4	704
Barn Swallow	138	142	335	16	8	571	335	228	51	5	708	1910	89	22	475	337	580	1045	147	76	221	378	7815
Cliff Swallow	34	2	60	1	-	110	20	16	1	-	1	-	-	-	3	-	-	-	-	-	-	-	248
Purple Martin	31	11	121	11	-	35	32	40	9	-	51	23	7	27	32	86	282	67	38	14	29	2	948
Blue Jay	118	85	231	33	16	178	189	117	36	9	94	1886	27	3	39	99	304	105	16	9	57	17	3668
Northern Raven	1	20	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26
American Crow	160	123	366	252	77	482	402	214	87	4	212	235	67	6	34	64	194	242	48	18	36	46	3369
Fish Crow	-	2	32	43	1	52	5	15	15	15	49	39	7	-	40	33	26	86	28	2	177	93	764
crow sp.	-	-	-	-	-	-	-	-	-	-	-	175	-	-	-	-	-	-	-	-	-	-	175
Blk-cap Chickadee	94	31	82	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	207
Carolina Chickadee	-	-	55	20	14	157	202	69	21	2	133	128	13	2	15	82	72	109	23	14	40	30	1201
Tufted Titmouse	21	57	177	50	5	146	178	67	25	1	94	93	17	4	17	25	67	72	18	6	40	47	1227
White-br. Nuthatch	60	11	40	4	1	47	14	6	-	-	2	3	-	-	-	1	-	2	-	-	1	-	192
Red-br. Nuthatch	9	6	3	2	-	2	4	-	1	-	5	5	-	-	2	1	1	-	1	-	-	-	42
Brown-hd Nuthatch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2	-	-	-	5
Brown Creeper	10	-	4	-	-	5	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	20
House Wren	15	8	105	42	5	302	66	35	19	-	21	24	1	-	2	53	12	6	8	3	4	19	750
Winter Wren	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1

Table 1 (cont.). Statewide Bird Count, May 2, 1981

	Garr	Alle	Wash	Fred	Garr	Mont	Howa	Balt	Harf	Cecl	Pr-G	Anne	Chas	Calv	St-M	Kent	Caro	Talb	Dorc	Somr	Wico	Worc	Total
Carolina Wren	-	11	80	17	4	144	46	23	7	2	83	64	21	2	15	14	32	78	16	10	11	23	703
Marsh Wren	-	-	-	-	-	1	-	-	-	-	7	3	-	-	2	8	-	-	19	2	1	3	46
No. Mockingbird	-	44	89	30	17	85	161	80	49	10	77	97	22	5	14	39	92	92	9	14	38	7	1071
Gray Catbird	25	22	114	26	8	181	190	75	18	-	106	81	10	3	4	28	61	11	10	19	20	25	1037
Brown Thrasher	10	16	110	12	7	18	28	21	6	3	13	26	3	1	6	31	62	29	9	5	16	1	433
American Robin	234	419	505	175	60	213	355	326	147	91	174	244	19	22	37	466	336	434	32	62	139	73	4563
Wood Thrush	7	28	85	11	30	103	99	39	33	1	59	67	34	2	8	125	142	86	19	3	22	32	1035
Hermit Thrush	6	-	-	-	-	4	1	5	1	-	-	-	-	-	-	5	1	-	-	-	1	-	24
Swainson's Thrush	-	-	-	-	-	2	1	1	-	-	-	-	-	-	-	-	-	-	1	-	2	-	7
Veery	-	3	2	-	-	2	5	4	1	-	-	1	-	-	-	6	1	1	-	-	-	-	26
Eastern Bluebird	16	18	82	48	2	22	82	19	19	-	103	12	12	-	10	9	19	4	2	-	6	1	486
Blue-gray Gnat.	88	41	203	20	2	350	112	68	18	-	94	45	29	-	16	53	24	30	6	-	6	23	1228
Golden-cr. Kinglet	-	-	2	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8
Ruby-cr. Kinglet	21	4	13	-	-	16	12	2	1	-	1	4	-	-	1	1	-	-	-	-	-	-	76
Water Pipit	-	-	25	10	-	-	-	2	-	-	-	25	-	-	-	-	-	-	-	-	-	-	52
Cedar Waxwing	-	27	92	-	-	67	224	12	-	19	3	-	-	-	-	2	-	-	-	-	-	-	446
Loggerhead Shrike	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
European Starling	179	381	645	303	74	540	728	1585	201	59	498	660	44	125	112	1032	863	378	45	50	468	534	9504
White-eyed Vireo	2	5	21	5	-	85	74	37	26	2	67	46	23	4	9	35	51	24	20	7	16	66	625
Yellow-thr. Vireo	1	-	12	-	-	27	8	6	-	-	5	1	-	-	2	1	3	1	-	-	-	1	76
Solitary Vireo	4	6	4	-	-	2	3	1	-	-	5	1	-	-	-	3	-	-	-	-	-	-	29
Red-eyed Vireo	3	10	101	12	-	184	78	37	21	-	201	109	139	-	29	56	86	78	11	2	23	41	1211
Philadelphia Vireo	-	-	2*	-	1*	2*	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	6
Warbling Vireo	-	1	63	7	-	52	2	1	2	2	-	1	-	-	-	3	2	-	-	-	-	-	136
Blk-&white Warb.	14	3	17	-	2	37	17	17	11	-	20	34	15	-	9	13	9	12	9	1	16	30	286
Prothonotary Warb.	-	-	18	-	-	44	-	-	-	-	5	-	4	-	-	4	37	2	7	-	19	48	188
Swainson's Warbler	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	2
Worm-eating Warb.	-	3	13	2	-	6	4	10	-	-	2	4	-	-	-	3	6	8	6	-	7	23	97
Golden-wing Warb.	1	7	3	-	-	5	-	3	-	-	-	-	1	-	-	2	-	-	-	-	-	-	22
Blue-winged Warb.	-	1	11	1	1	28	19	10	2	-	10	16	-	-	1	-	2	7	3	1	-	1	114
Brewster's hybrid	-	-	-	-	-	2	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	3
Tennessee Warbler	-	3	9	-	-	10	3	3	-	-	1	-	-	-	-	3	-	-	-	-	-	-	32
Orange-crown Warb.	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Nashville Warbler	-	3	31	-	-	7	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	44
No. Parula Warb.	-	-	27	-	-	138	52	42	16	-	68	50	45	-	15	24	11	26	2	-	1	6	523
Yellow Warbler	25	34	61	11	1	43	51	23	18	1	36	12	1	-	1	54	6	15	23	10	4	9	439
Magnolia Warbler	5	1	5	1	-	-	6	5	6	-	-	1	-	-	-	7	-	-	-	-	-	-	36
Cape May Warbler	1	2	3	1	-	13	2	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	24
Blk-thr. Blue Warb	5	1	3	-	-	4	1	7	2	-	7	3	-	-	2	7	-	2	-	-	1	-	45
Yellow-rump Warb.	32	34	198	42	29	303	15	27	13	1	254	264	22	-	21	458	96	86	53	20	57	26	2141
Blk-thr Green Warb	28	6	16	-	-	18	4	11	1	-	5	-	1	-	-	3	-	1	-	-	1	-	95
Cerulean Warbler	2	-	55	-	-	50	2	5	5	-	2	-	-	-	-	3	-	-	-	-	-	-	124

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Table 1 (cont.). Statewide Bird Count, May 2, 1981

	Garr	Alle	Wash	Fred	Carr	Mont	Howa	Balt	Harf	Cecil	Pr-G	Anne	Chas	Calv	St.M	Kent	Caro	Talb	Dorc	Somr	Wico	Worc	Total
Blackburnian Warb	-	3	4	1	-	7	1	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	18
Yellow-thrtd Warb	-	2-	26	-	-	17	7	-	2	-	-	3	-	-	-	7	2	4	-	-	9	19	98
Chestnut-s. Warb	6	3	15	-	-	19	-	3	2	-	1	2	-	-	1	2	-	-	1	-	-	-	55
Bay-breasted Warb	2	-	9	-	-	4	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	17
Blackpoll Warbler	-	-	1	-	-	2	-	1	-	-	7	2	6	-	-	-	-	1	-	-	2	1	23
Pine Warbler	-	4	22	1	-	-	1	-	-	-	10	8	2	-	13	14	28	35	35	2	22	37	224
Prairie Warbler	3	5	27	1	-	59	19	9	5	-	35	8	11	-	2	8	21	5	13	5	8	17	261
Palm Warbler	-	1	4	-	-	-	-	-	-	-	-	-	-	-	-	1	-	4	-	-	-	-	10
Ovenbird	3	1	5	8	-	32	51	34	3	-	53	43	14	5	6	12	40	18	22	3	38	85	466
No. Waterthrush	-	8	5	-	-	7	3	2	1	-	1	-	-	-	2	-	4	-	1	-	3	-	37
La. Waterthrush	2	3	35	6	-	27	15	12	4	-	4	14	3	1	1	1	3	5	-	-	3	6	141
Kentucky Warbler	-	-	4	-	-	19	16	7	2	-	3	5	4	-	7	9	20	4	-	-	3	12	113
Mourning Warbler	-	-	-	-	-	1*	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
Common Yellowthro	12	11	24	11	5	138	141	72	22	1	99	98	17	4	6	139	68	40	65	16	26	73	1088
Yellow-br. Chat	-	1	22	-	-	29	12	1	2	-	16	11	2	-	1	3	18	5	6	5	2	10	145
Hooded Warbler	3	5	3	-	-	5	24	7	1	-	29	20	2	7	3	-	-	-	-	-	7	5	121
Wilson's Warbler	-	-	4	-	-	2	2	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	10
Canada Warbler	-	-	1	-	-	2	1	-	-	-	2	1	-	-	-	-	-	-	-	-	-	-	7
American Redstart	2	2	54	-	1	24	25	2	1	-	30	17	2	-	-	10	-	-	-	-	3	5	174
House Sparrow	143	185	476	280	15	192	283	581	53	-	187	196	25	21	68	9	463	534	30	12	127	88	3968
Bobolink	12	6	2	-	-	1	130	23	-	-	30	230	-	-	30	1	-	2	1	10	-	-	478
E. Meadowlark	35	52	100	36	3	34	38	10	13	2	36	26	4	4	7	28	44	69	32	5	17	20	615
Red-winged Blbrd	279	142	264	291	32	222	576	564	74	9	389	3274	266	8	96	1370	903	1335	400	181	156	178	11009
Orchard Oriole	-	2	27	4	-	31	2	3	1	-	3	5	6	1	1	9	28	29	14	3	16	4	190
Northern Oriole	9	22	185	17	6	116	26	20	6	3	9	15	10	-	-	10	24	3	4	-	5	5	495
Rusty Blackbird	34	1	-	-	-	41	1	-	-	-	30	-	-	-	-	2	-	-	-	-	-	-	109
Boat-tail Grackle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	14	27	8	139	192
Common Grackle	277	341	1051	400	42	483	419	562	102	94	446	517	222	138	340	1119	1748	1678	550	187	612	517	11887
Brown-hd Cowbird	226	59	211	36	25	211	317	95	30	8	58	110	41	5	4	165	178	118	75	17	129	183	2301
Scarlet Tanager	1	16	90	3	2	52	23	12	17	-	50	45	14	1	5	7	41	12	3	1	9	7	411
Summer Tanager	2	-	-	-	-	1	-	-	-	-	-	-	-	-	1	-	4	-	6	-	3	1	18
Northern Cardinal	55	132	393	95	32	780	434	221	63	6	173	336	51	15	63	253	189	132	35	40	61	99	3658
Rose-br. Grosbeak	11	5	12	-	-	25	7	3	-	-	1	3	4	-	1	-	-	-	1	-	-	2	75
Blue Grosbeak	-	-	3	-	-	6	-	-	-	-	12	-	26	-	1	6	17	7	4	1	4	2	89
Indigo Bunting	6	6	76	3	2	67	17	4	2	-	33	16	-	-	5	9	6	13	4	3	5	4	281
Evening Grosbeak	62	36	58	-	-	3	11	2	-	-	2	66	-	-	-	10	-	-	-	2	-	2	254
Purple Finch	27	27	616	40	-	416	83	48	2	-	18	28	15	-	1	-	1	11	-	-	-	2	1335
House Finch	22	56	47	53	4	14	66	45	13	2	6	12	-	-	-	25	-	2	-	-	1	6	374
Pine Siskin	-	15	120	-	-	-	10	3	-	-	4	14	2	-	-	-	4	7	-	1	-	-	182
Am. Goldfinch	152	274	1122	221	25	912	589	373	80	13	232	336	104	16	88	270	170	235	20	15	22	8	5227
Ruf-sided Towhee	112	77	135	19	11	127	143	84	6	1	36	106	18	3	20	100	96	56	18	6	25	49	1248
Savannah Sparrow	7	1	-	2	-	23	6	15	-	-	24	28	-	-	8	4	16	11	8	-	3	6	162

Table 1 (cont.). Statewide Bird Count, May 2, 1981

	Garr	Alle	Wash	Fred	Carr	Mont	Howa	Balt	Harf	Cecl	Pr.G	Anne	Chas	Calv	St.M	Kent	Caro	Talb	Dorc	Somr	Wico	Worc	Total
Grasshopper Spar.	-	-	30	5	-	8	13	2	-	-	20	6	2	-	3	2	10	9	2	-	-	-	112
Henslow's Sparrow	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	3
Sharp-tail Spar.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	3
Seaside Sparrow	-	-	-	-	-	-	-	1	-	-	-	13	-	-	1	-	-	-	27	-	-	6	48
Vesper Sparrow	7	-	24	2	-	-	-	-	-	-	2	-	-	-	-	3	9	-	-	-	-	-	47
Northern Junco	2	2	5	-	1	2	4	12	-	-	1	4	-	-	-	-	3	1	-	-	-	-	37
Am. Tree Sparrow	-	-	-	-	1*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Chipping Sparrow	158	222	104	33	9	40	86	55	29	2	68	45	16	1	5	74	112	56	18	26	23	22	1204
Field Sparrow	77	46	123	12	15	131	87	35	13	-	41	37	9	2	6	67	64	20	4	3	13	7	812
White-crown Spar.	24	13	13	7	3	6	-	5	1	-	15	6	-	-	1	9	13	14	2	-	-	-	132
White-throat Sp.	46	68	755	121	6	442	348	154	103	1	146	155	27	3	53	165	156	263	36	6	49	59	4252
Fox Sparrow	-	1*	-	-	-	-	1*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
Lincoln's Spar.	1	-	2*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
Swamp Sparrow	31	4	15	1	-	24	12	2	6	-	21	29	-	-	4	6	2	5	2	-	-	-	162
Song Sparrow	154	123	173	159	18	242	217	91	51	7	73	96	11	8	7	49	37	31	17	6	6	67	1643
Total species	135	134	164	109	58	176	140	155	112	42	167	153	99	48	120	160	125	133	151	96	126	180	264
Total individuals	4693		13460		688		10457		2325		8019		2310		3999		10207		4635		4418		225722
		4587		4111		12244		18198		737		72736		591		20565		11375		1434		13933	
Total party-hours	92	70	118	46	10	135	159	87	18	4+	92	109	25	6	22	32	71	50	19	18	42	16	1242+
Party-hrs on foot	55	40	52	39	8	126	139	75	-	-	69	-	20	6	15	8	29	28	13	-	-	-	751+
Party-hrs by car	21	29	17	7	2	8	20	12	-	-	20	-	5	-	7	24	36	22	6	-	-	-	238+
Party-hrs other	1	-	49	-	-	-	-	-	-	-	2	-	-	-	-	-	6	-	-	-	-	-	58
Total party-miles	332	221	478	178	62	205	341	313	133	5+	275	157	139	6	188	271	488	439	-	46	143	62+	4351+
Miles on foot	48	22	88	18	6	95	119	59	7	-	52	48	10	6	16	9	31	25	-	6	3	-	670+
Miles by car	281	199	358	160	56	110	222	254	126	5	213	109	129	-	172	262	450	414	-	40	140	62+	3762+
Miles by other	3	-	32	-	-	-	-	-	-	-	10	-	-	-	-	-	7	-	-	-	-	-	52
No. of observers	20	22	24	20	9	68	47	20	8	2	20	11+	6	1	3	9	36	15	4	8	7	14	375+
No. of parties	-	-	12	5+	-	21	30	13	4	2	10	9+	5	1	2	5	-	5	1	-	-	4+	129+
Starting time	0600	0645	-	-	-	0440	0530	0330	-	-	0445	0500	-	0700	0700	-	-	-	0345	-	0600	-	0345
Stopping time	2100	2030	-	-	-	2230	2100	2000	-	-	2030	2100	-	1300	1800	-	-	-	2230	-	1730	-	2230

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coordinated effort by a few observers can lead to great results. Worcester County was not such a case. There were three groups in the county, apparently not knowing that anyone else was counting; how many birds were counted more than once? St. Marys County also presented a problem, with at least two different observers counting the same birds.

This year herons and egrets were a Lower Eastern Shore phenomenon, but the lack of coverage on the Lower Western Shore and Upper Bay confounds the issue. Except for a few coastal species, shorebirds were well represented across the State. Gulls concentrated in the Lower Bay, while terns moved along the coast and into the Lower Bay. (But what happened in the Upper Bay?) Flycatchers were most common on the Piedmont; Cliff Swallows moved through the western two-thirds of the State, while all the other swallows were spread State-wide. House Wrens were commoner west of the Bay, while Carolina Wrens continue to increase on the Coastal Plain. Thrushes seemed to concentrate along the Piedmont-Coastal Plain boundary. Waxwings and Warbling Vireos moved through the center of the State. Warblers were concentrated along the major rivers west of the Bay and east of the Allegheny Plateau. The orioles form an interesting pattern; Northernns increased in abundance east-to-west, while Orchards did the reverse. House Finches continue to increase, with a decided increase on the Eastern Shore.

The top dozen species this year were:

Ring-billed Gull	49,520	European Starling	9,504	White-throat	4,252
Laughing Gull	26,067	Tree Swallow	5,555	House Sparrow	3,968
Common Grackle	11,887	Am. Goldfinch	5,227	Herring Gull	3,924
Red-wg Blackbird	11,009	Am. Robin	4,563	Blue Jay	3,668

The new table I have added this year, Table 2, illustrates how evenly species are distributed across the State. The left columns indicate the number of counties in which a species was recorded; the right columns show the number of species. A quick look shows that 25 species were recorded in all 22 counties that reported this year, while 31 species were recorded from only one county.

Table 2. County Distribution by Species

No. of Counties	No. of Species	No. of Counties	No. of Species	No. of Counties	No. of Species	No. of Counties	No. of Species
22	25	16	7	10	5	5	14
21	9	15	9	9	8	4	17
20	14	14	7	8	8	3	9
19	12	13	13	7	9	2	24
18	5	12	8	6	9	1	31
17	7	11	8				

Worcester County had more unique species than any other: Northern Gannet, Brant, Harlequin Duck, Surf Scoter, Clapper and Black Rails, Purple Sandpiper, Black Tern, and Black Skimmer. Baltimore reported the only Hooded Merganser, Ruff, Glaucous Gull, and Ringed Turtle Dove.

Garrett County had the only Western Sandpiper (!) and Winter Wren; Washington, Loggerhead Shrike and Orange-crowned Warbler; Montgomery, Yellow-crowned Night Heron and Willow Flycatcher; Howard, Northern Shoveler and Alder Flycatcher; Anne Arundel, Redhead and Lesser Black-backed Gull; Dorchester, Long-billed Dowitcher and Sharp-tailed Sparrow; Allegany, Yellow-bellied Flycatcher; Carroll, American Tree Sparrow; St. Marys, Oldsquaw; Kent, Golden Eagle; and Talbot, Common Goldeneye. Without looking at the chart, can you list the 25 species found in every county?

CLOSING COMMENTS

This is my first time as compiler for the Statewide May Count. I have (perhaps foolishly) volunteered to do it again. I was quite unprepared this year; in addition to compiling Baltimore County, I had multiple lists from four other counties. Some reports were rushed in, while others straggled through into July; one list sent in May arrived in my files in August! Many of the reports lacked complete data. Every report should include 1) names of observers, 2) starting time, 3) hours walking, hours driving, etc., 4) miles walking, miles driving, etc., 5) number of individuals as well as number of species seen, and 6) the stopping time. Please add a comment on the weather. In the main chart, some of the numbers are followed by an asterisk (*); in each instance I would have liked details of the observation. Please submit details for any species that is unusually late or early, that may pose problems in identification, or that is out of normal range. I hope this year's county compilers will continue their posts next year. I shall publish a note in the Yellowthroat before next year's May Count with the name, address and phone number of a coordinator for each county.

OBSERVERS

Garrett: Ken Baxter, Katie Beachy, Jim Brady, David and Seth Brandes, Alice Chadderton, Charlotte Folk, Jan Janssen, Annie and Grace Lichty, John Mathews, Bill Pope, Fran Pope (compiler), Linda Robinette, Barbara Starr, Dorothy Staub, Barbara Swiger, John Weske, Bill Wiley, Irene and Marvin Yoder.

Allegany: William Devlin, Dave Forney, Flo Giffin, Ken Hodgdon, Jon Jansen, Dorothea Malec (compiler), Mark Malec, Lamar Minnick, Paul Nazelrod, Evelyn Neal, James Paulus, Debby Pence, Bob Peterson, Teresa Simons, Ann and Paul Smith, Molly Somerville, Betty Swadley, Mary Twigg, James Wilkinson, John Willetts, Harriet Williams.

Washington: Laura Arant, Richard and Ted Banvard, Genevieve Beck, Dan Boone (compiler), Cynthia Bunnell, Mary Corderman, Barbara Dowell, Chuck Dupree, Beulah Green, Carl Hull, Marilyn and Don Kauffman, Mary and Bob Keedy, Norma and Cam Lewis, Janet McKegg, Jean Nealy, Nancy Pierce, Doris Ruthrauff, Charles Spitzner, Frank Sturgis, Bertie Thurmond.

Frederick: Marion and Melvin Bennett, Serene Collmus, Sonya and Edward Dapper, John Helm, Phyllis and Howard Hodge, Carolyn and Ken Maize, Marilyn Mause, William Meredith, Charles Mulligan (compiler), John and Ruth Richards, William Shirey, Linda Smith, David Wallace, Michael Welch, Phyllida Willis.

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NEW ENGLAND and MALAYSIA in October are still in preparation. INDIA - NEPAL led by Bob Fleming of Kathmandu will be in January, 1983. CHINA next summer.



BOOK REVIEW

THE AUDUBON SOCIETY ENCYCLOPEDIA OF NORTH AMERICAN BIRDS

John K. Terres. 1980. Alfred A. Knopf, New York. 1109 p, 875 color photos, 800 black & white drawings. \$60.00

The encyclopedic knowledge of the collective membership of MOS notwithstanding, the Library Committee made this book its first purchase and will keep it at the MOS Museum at Cylburn. The author, former editor of Audubon, editor of more than 40 books and author of 6, spent 21 years compiling the Encyclopedia from his own experience and with the help of many recognized consultants whose names are listed. The Introduction explains in a straight-forward style his mission in producing this mammoth volume: "I think of myself as carrier of this knowledge from the men and women [scientists, naturalists, and scholars] who created it and built it, to the millions of laymen who may profit by their work and be delighted by their labors." Terres recognizes that in some areas, as additions to knowledge are made possible by advances in technology, the book may become outdated. He tried to use the most recent information, but found it impossible to keep up with the recent literature.

For a book so large and all inclusive, it is wise that the author included a section "How to Use the Encyclopedia," explaining his cross referencing and bird naming systems. Not until you have gone through all the introductory sections should you proceed into the A's. Then, before you know it you're face to face with a full page photograph of a Black-browed Albatross and the entire Auk family. It's a book you'll probably want on your own library shelf so that you can take your time to trace the birds all the way to Z. The Library Committee hopes that you will use this volume the next time you are at Cylburn.--Joy Wheeler.

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