# BIRD OBSERVER OF EASTERN MASSACHUSETTS

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## EDITOR'S PAGE

A special word of thanks to Fred Atwood, regional compiler for Suffolk County, for his contributions to Bird Observer. We wish him good luck at Bowdoin College!

Stephen P. Grinley will replace Mr. Atwood as regional compiler for Suffolk County, and William C. Drummond of Haverhill has joined Bird Observer as regional compiler for Essex County.

## 1973 BIRDER'S KIT

This year the Massachusetts Audubon Society has introduced a new service for birders - the 1973 Birder's Kit.

The initial mailing of the Kit will contain a Directory of Natural History Clubs in New England, a current calendar of Bird Club meetings and field trips, the first of a "Where to Watch Birds in Massachusetts" series, two annual checklists and two field cards. Eleven subsequent mailings at approximately monthly intervals will contain four or five "Field Problems" (a series of discussions on particularly difficult areas in field identification), monthly Calendars of Bird Club meetings and field trips, three to five additional issues of "Where to Watch Birds," a checklist summary, and miscellaneous publications such as leaflets on building bird houses and the care of wild birds.

The Kit can be purchased by sending \$5.00 plus  $15\phi$  sales tax to Birder's Kit, Massachusetts Audubon Society, Lincoln, Massachusetts 01773. If you wish to purchase parts of it separately, you can obtain them by writing for Natural History Club Directory (50 $\phi$ ), Bird Walk Calendar (12 issues) January through December (\$2.00), Field Problems (\$2.00), or "Where to Watch Birds" (\$2.50).

## BOAT TRIP TO STELLWAGON BANK

The Brookline Bird Club has scheduled a boat trip to Stellwagon Bank on Saturday, October 28, 1973. For information and reservations, write to Mr. Stephen P. Grinley, 1189 Commonwealth Avenue, Apt. 31, Allston, Massachusetts 02134.

CHRISTMAS SUBSCRIPTION SPECIALS

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Do you have a birding friend who is not a subscriber and who would enjoy <u>Bird</u> <u>Observer</u> throughout 1974? Why not give him/her a subscription for Christmas? To make it easy, here are special gift rates for current subscribers only, when ordered at the same time.

1 Gift	subscription	\$4.50
2 Gift	subscriptions	8.50
3 "	"	12.00
4 "	"	15.00

## WHAT IS A BIRD SPECIES?

## J. T. Leverich, Cambridge

In the April, 1973, edition of <u>The Auk</u>, the A. O. U. Committee on Classification and nomenclature published a supplement to the <u>Check-list of North American Birds</u> (1957, fifth edition), altering the taxonomic classification and the official name(s) of many birds. In the following 32 cases, only the English common name was changed:

## Old common name

## New English name

Northern Fulmar

- 1. Fulmar 2. Pale-footed Shearwater 3. Slender-billed Shearwater 4. Leach's Petrel 5. Wilson's Petrel and nine other analogous changes within the family Hydrobatidae. 15. Common Egret Wood Ibis
  American Widgeon
  European Widgeon 19. Shoveler 20. Common Scoter
- 21. Gray Sea Eagle
- 22. Pigeon Hawk
- 23. Sparrow Hawk
- 24. Harlequin Quail
- 25. Upland Plover 26. Knot
- 27. Common Bushtit
- 28. Catbird
- 29. Robin
- 30. Parula Warbler
- 31. Yellowthroat
- 32. Mexican Junco

Flesh-footed Shearwater Short-tailed Shearwater Leach's Storm Petrel Wilson's Storm Petrel Great Egret Wood Stork American Wigeon European Wigeon Northern Shoveler

Black Scoter White-tailed Eagle Merlin American Kestrel Montezuma Quail Upland Sandpiper Red Knot Bushtit Gray Catbird American Robin Northern Parula Common Yellowthroat Yellow-eyed Junco

The above alterations were made for various reasons, but mostly to bring American terminology into greater conformity with already established international usage. None of these changes has any biological significance.

A change in the Latin name for a bird is significant inasmuch as it ordinarily reflects a shift in the biological classification of the bird. Fifty percent of these alterations have to do with the merging of one genus in another, or with the placement of a species within a different subfamily. Readers are advised that a reprint of the Auk article, with covers, is available for \$1.25 from: Treasurer, A. O. U., P. O. Box 23447, Anchorage, Ky. 40223.

Most readers will undoubtedly be primarily interested in those taxonomic modifications affecting the species status of certain birds -- in the vernacular, the "lumpings" and "splittings." To appreciate fully the nature of these alterations, one must have a suitable grounding in the modern theory of what a species is. This article and the ones to follow attempt to present this theory in laymen's terms.

## Definition of a Species

A species is an evolved or irreversibly evolving aggregate of natural populations, actually or potentially freely interbreeding, genotypically distinctive as a group, and reproductively isolated from all other species.

We shall examine the various components of this definition in detail; but before doing so, let me hasten to emphasize that a species is NOT a "kind" of bird. Naturalists from 1750 to 1900 tended to think of species in such a fashion. To them, a species was a sort of abstract conglomeration of morphological characteristics,<sup>2</sup> epitomized by one particular bird (the <u>type specimen</u>) preserved in a certain museum collection. Other individuals were to be classed in the same species if they did not differ materially from the type specimen. Earlier taxonomists sometimes discarded variant individuals from their collections as "confusing."<sup>3</sup> Whenever an individual differed drastically from the type specimen, it was inevitably described as a new species. (Most geographic subspecies and color phases were originally described as separate species. Linnaeus originally described the male mallard as <u>Anas</u> <u>boschas</u> and the female as <u>Anas</u> <u>platyrhynchos</u>!)

All in all, the classification system was too finely divided by modern standards, which is why each recent updating of the <u>Check-list</u> tends to show many more "lumpings" than "splittings."

Let us return to the more modern "biological species concept."

1. A species consists of one or more <u>populations</u>, each of which always displays considerable variation among its constituent individuals. Individual variation may be continuous, e.g., darker and lighter brown sparrows within one population, together with individuals of all intermediate hues. Similarly, the American population of the human species contains light blondes and dark brunettes together with all intermediate colorations. Again, individual variation may also be basically discontinuous, allowing the biologist to divide a given freely interbreeding population into distinct sub-classes. Reddish Egrets (<u>Dichromanassa rufescens</u>) appear in an all-white phase and in a dark rusty phase. There are no pink Reddish Egrets.

Discontinuous individual variation within a given population is known as polymorphism. It is of no greater biological significance than is the occurrence of blue or brown eyes among humans. There are three cases of newly-recognized polymorphism in the current Check-list <u>Supplement</u>. (Cf. Category I.)

2. A species consists of <u>natural</u> populations. The class of all toy poodles does not form a species, not even a subspecies, regardless of how well-marked and superbly pedigreed each such dog may be. Reason: the class does not form a natural population. Breed characteristics can only be maintained by an ever-vigilant segregation of all toy poodles from the other members of their natural population (the class of all house dogs) Left to their own devices, toy poodles would speedily mongrelize the breed out of existence. (To reiterate, toy poodles manifestly form a distinct identifiable "kind" of dog; they do not form a species.)

Cage-birds (e.g., <u>budgerigars</u>) are sometimes artificially segregated and bred for particular characteristics.

3. A species is <u>genotypically</u> <u>distinctive</u>: or in laymen's language, a species communally shares a distinctive set of genes.

Biologists now recognize that a gene (locus) is a certain delimited section of a DNAstrand within the nucleic acid of a chromosome. Each gene is responsible for the manufacture or assembling of a certain biochemical, or a class of such biochemicals. In turn, each such biochemical participates in a series of life-process reactions. As a result, alteration of a single gene typically produces a wide variety of changes in the animal's characteristics, a phenomenon known as <u>pleiotropy</u>. These changes may be morphological, 'physiological,' or even ethological (affecting instinctual behavior). A distinctive gene pool is usually recognizable on the basis of morphological characteristics alone, <u>but not always</u>. Pairs of species which are so similar morphologically as to comfuse the ornithologist, causing him to overlook one of the pair for some time are known as <u>sibling species</u>.

There are three newly recognized sibling species pairs in the current Check-list <u>Supplement</u>. (Cf. Category II.)

4. A species is reproductively isolated, or irreversibly evolving toward that state.

The behavior of birds in captivity gives no evidence as to reproductive isolation. Little Egrets (Egretta garzetta) have repeatedly been hybridized with the Black-crowned Night Heron (Nycticorax nycticorax) in Japan. This proves nothing. In delimiting species the ornithologist is concerned not with whether or not two birds <u>can</u> hybridize; rather, he tries to discover whether they do so in the wild. In fact, today's ornithologist distinguishes between free and limited hybridization!

One currently accepted decisive test is that of <u>random mating</u>: if mates are chosen randomly from members of either of "two populations" with no decided preference being shown for a mate from the bird's own group, then in fact there is only one (intergrading) population under consideration, and the two bird "types" form a single species (however different they may appear to be). There are six cases of species merger in the current Supplement which fit this description. (Cf. Category III.) 5. A species consists of <u>actually or potentially freely interbreeding</u> populations. (Herein lie some of the thornier questions of classification.)

The Eastern Henslow's Sparrow (<u>Passerherbulus henslowii susurrans</u>) at one time bred in an area geographically isolated from the range of the Western Henslow's Sparrow (<u>P. h. henslowii</u>). Subspecific differences doubtless evolved during this time. They now meet and intermingle completely in central New York. This present case is now clear-cut: these are two geographical subspecies comprising a single species.

But what shall the taxonomist say of other populations which are geographically isolated from their nearest relatives? The easy way out would be to class all such geographic isolates as separate species, at least until such time as the birds themselves provide incontrovertible evidence to the contrary. This "solution" has two major flaws:

a. It leads to massive confusion in other branches of biology less directly concerned with taxonomic niceties, particularly certain areas having to do with ecological principles.

b. It seriously under-represents the advanced state of modern ornithology. The subjective judgments of today's scientist are by no means uninformed or arbitrary.

Hence, given a pair of closely related but geographically isolated populations, today's ornithologist tries to decide if they would freely interbreed were they to be brought into contact. When the decision is in the affirmative, the two populations are classed as one species, and where both groups were formerly recognized as species, the more recently described group must be demoted to the level of a subspecies of the other. There are seven cases which fit this description in the current <u>Supplement</u>. (Cf. Catagory IV.)

## Specific changes in the current Supplement.

## Category I: Polymorphism

1. The Great White Heron is now considered the white morph (white phase) corresponding to the blue morph Ward's Heron. Together they form a subspecies (<u>Ardea herodias</u> <u>occidentalis</u>) of the Great Blue Heron. Within the U.S., this population from the Florida Keys is the only one displaying the white morph. It also occurs, however, throughout the Caribbean.

2. The Blue Goose is the dark morph of the white phase Lesser Snow Goose. Together they form a subspecies (<u>Chen caerulescens caerulescens</u>) of the Snow Goose. Although the English name "Snow Goose" is retained, the Latin name for the species must be changed to <u>Chen caerulescens</u> (formerly the name for the Blue Goose), since this name is older than <u>Chen hyperborea</u>.

3. The Black-eared Bushtit is now considered a morph of the Common Bushtit. All forms will henceforth bear the English name "Bushtit." Within the U.S., the blackeared form is the only morph occurring within its population, which thus is also a subspecies (<u>Psaltriparus minimis lloydi</u>). Other Mexican subspecies display both morphs.

## Category II: Sibling Species

4. Theyer's Gull (Larus theyeri) is split from the Herring Gull (Larus argentatus).

5. Traill's Flycatcher is split into two species:

a. Willow Flycatcher (Empidonax trailli), with vocalization "fitz-bew." This species includes all of the western population  $\underline{E}$ . t. <u>brewsteri</u> and certain members of the population known as  $\underline{E}$ . t. trailli. It breeds in somewhat open habitats.

b. Alder Flycatcher (<u>Empidonax alnorum</u>), with vocalization "fee-bee-o." All of these birds were formerly thought to have been members of the Eastern population <u>Empido-</u> <u>nax</u> <u>trailli</u> <u>trailli</u>. It breeds in the boreal forests of Eastern United States, Canada and Alaska.

## These two species may occasionally hybridize.

6. The Great-tailed Grackle (<u>Cassidix mexicanus</u>), which is the light-eyed form ranging from western Louisiana into Mexico, is split from the Boat-tailed Grackle (<u>Cassidix major</u>), which ranges from eastern Texas east and up the Atlantic seaboard.

## Category III: Zone of massive hybridization, with random mating.

7. Green-winged Teal (<u>Anas carolinensis</u>) + Common Teal (<u>Anas crecca</u>) = Green-winged Teal (<u>Anas crecca</u>). The hybrid zone is in Alaska.

8. Red-tailed Hawk + Harlan's Hawk = Red-tailed Hawk (Buteo jamaicensis).

9. Yellow-shafted Flicker + Red-shafted Flicker + Gilded Flicker = Common Flicker (<u>Colaptes auratus</u>).

Where the first two of these former species meet, the wing-color passes smoothly from yellow through gold, orange and salmon to reddish.

10. Myrtle Warbler + Audubon's Warbler = Yellow-rumped Warbler (Dendroica coronata).

11. Baltimore Oriole + Bullock's Oriole = Northern Oriole (Icterus galbula).

12. White-winged Junco + Slate-colored Junco + Oregon Junco + Guadalupe Junco = Darkeyed Junco (Junco hyemalis).

A study is under way to determine if the Gray-headed Junco (<u>Junco caniceps</u>) should be included in this grouping.

Category IV: Demotion of geographical isolates.

13. Bahama Honeycreeper is now to be a subspecies of the Bananaquit (Coereba flaveola).

14. San Lucas Robin is demoted to a subspecies of the American Robin ( $\underline{\text{Turdus migratorius}}$ ).

15. Socorro Worbler (=Olive-backed Warbler) becomes a subspecies of the Tropica? Parula (Parula pitiayumi).

16. McGregor's House Finch and Guadelupe House Finch become subspecies of the House Finch (<u>Carpodacus mexicanus</u>).

17. Ipswich Sparrow is now a subspecies of the Savannah Sparrow (Passerculus princeps).

18. Dusky Seaside Sparrow and Cape Sable Sparrow become subspecies of the Seaside Sparrow (<u>Ammospiza maritima</u>).

19. Baird's Junco becomes a subspecies of the Yellow-eyed Junco (Junco phaenotus).

## Category V: Unclassified

20. The game bird known in this country as the Chukar was imported from stock in Asia. Its A. O. U. Latin name was <u>Alectoris graeca</u>, which is the proper name for the Rock Partridge of Europe. Foreign ornithologists have now separated the Asiatic birds into a new species, called the Chukar (<u>Alectoris chukar</u>), for reasons unknown to me. The Checklist <u>Supplement</u> follows suit.

Readers are warned that the present changes in species status as detailed in the current Check-list <u>Supplement</u> may be no more than the tip of an iceberg. I have been able to identify 7 potential "splittings" and in excess of 14 "lumpings", which may be made before the sixth edition of the <u>Check-list</u> is published. Those eager to anticipate the future are urged to buy

Mayr, Ernst and Lester L. Short, <u>Species Taxa of North American Birds</u>, Fublications of the Nuttall Ornithological Club No. 9 (Cambridge, 1970),

which is available from the Museum of Comparative Zoology for \$4.00.

In closing, I would like to emphasize that I am an amateur in all areas of biology. Corrections of the above material by professionals and well-informed amateurs would be appreciated. Follow-up articles on polymorphism, sibling species, isolating mechanisms and hybridization, and isolate subspecies are under consideration. Suggestions from the readers would be welcomed.

## FOOTNOTES

- 1. The species definition is basically that of A. E. Emerson, "Taxonomic Categories and Population Genetics," Ent. News 56 (1945), with various minor modifications suggested by points made in more recent literature.
- Morphological characteristics are, roughly, those characteristics which remain obvious in preserved museum specimens -- study-skins, skeletons, or even eggs! Thayer's Gull (<u>Larus thayeri</u>) was originally distinguished from other gulls on the basis of an unusual egg coloration.
- So says Ernst Mayr, former curator of the Museum of Comparative Zoology in his book Animal Species and Evolution (Cambridge, Harvard University Press, 1963, p. 139).
- 4. See Footnote 2.
- 5. Physiological characteristics are those relating to the life processes of the individual, e.g., blood type, susceptibility to disease or injury, allergenic reactions, "normal" temperature, tolerance to external heat or cold, etc.
- R. S. Palmer, <u>Handbook of North American Birds</u>, Vol. 1 (New Haven: Yale University Press, 1962), p. 463.

## SO WHAT DO WE COUNT?

I'm sure this question is raised whenever the AOU <u>Check-list</u> is revised. I'm also sure every lister has pondered the matter, not only as a beginner but time and again as his proficiency in the sport grows.

Of course, organizations such as ABA have specific rules as to what one can list. But where does that leave the millions of other birders who have never heard of ABA or of any other formal organization? As for me, I'll count any species, race, or morph that can be reliably identified through field marks, voice, or habitat.

For most birders, listing is as personal as choosing a brand of toothpaste. I feel we should not become preoccupied with the fine points of taxonomy, but rather with what we are able to recognize in the field. Sir Arthur Conan Doyle must have been a good birder, and I am sure Sherlock Holmes could have distinguished an Oregon Junco from a Slatecolored.

That is not to say that Mr. Leverich's excellent review should be taken lightly -- to the contrary, it should be most carefully studied. For only by doing so will a birder gain an appreciation and understanding of what he is looking at.

Yet, if everyone were to lump the two largest herons in North America, we would never know the relative abundance and distribution of the Great Blues and the Great Whites; also, we would not be aware of how many Common (Eurasian) Teals cross the Atlantic to North America; and we would not be so keen to appreciate the subtle differences of the Red-shafted, Yellow-shafted, and Gilded Flickers.

All of these birds will stay on my personal life list. And to me that's the name of the game -- PERSONAL.

L.J.R.

#### AUTUMN BIRDING AT GREAT MEADOWS

## Peter Alden, Cambridge

As the swamp maples start turning red and the water level subsides, Great Meadows plays host to an increasing variety of fall migrant birds.

Conditions have changed there often in recent years and shall continue to change in the future. In the late fifties and early sixties, the area was certainly one of the top freshwater marshes in the state, both in the quality of habitat and in the numbers of birds. In those years, it was an expanse of tall cattails, broken here and there by small patches of water, with some exposed mud flats in the autumn.

An unusual winter in the late sixties greatly changed the character of the meadows. Today the cattails have been reduced to a fifth of their former number, and even these are off in corners accessible only to muskrats. The dikes which allowed one to penetrate into the heart of the marshes are now flanked mainly by vast amounts of open water, most of which is too deep to be used by wading birds. In the shallower areas, the American Lotus has formed masses, and on open areas the beautiful weed known as Purple Loosestrife now predominates. In some years, when the water level is quite low due to lack of rain or the refuge personnel's efforts, a superb shorebird habitat is formed.

The first birds to indicate the beginning of the fall migration are the red-wings, which begin to flock during the summer. By August, a number of Least and Semipalmated Sandpapers scamper on the mud and even on the buildup of duckweed, algae, and scum next to the main dike. Here these birds are surprisingly tame, providing one of your best chances to photograph "peep." Also in August, many swallows start coming to roost at selected areas of cattails. They sleep on stems and branches over the water, giving them an out in case of nocturnal visits by flightless predators. In the evening at this time of year, you may also hear the delicate "pink" note of Bobolinks as they join the redwing flights. Don't expect to see any spring-plumaged males, however, since these birds have usually moulted before leaving the fields for the marshes.

The <u>shorebirds</u> are certainly of much interest to the lister, though the casual birder dreads the thought that there is more than one kind of sandpiper and shudders to think that some day he will have to identify them. Great Meadows is one of the most reliable spots in the state for Pectoral Sandpiper, which is found with the smaller peeps on the mud. The other specialty is Stilt Sandpiper, which in several past autumns has been present during September in numbers up to a dozen. Dunlin are sometimes common in late September and early October, occurring along with occasional White-rumped Sandpipers. Other shorebirds that are usually present include: Semipalmated Plover (a few), Killdeer (often common), Snipe, Spotted and Solitary Sandpipers, and both Yellowlegs.

In the good shorebird years, particularly in early September if broad expanses of mud are available, you could be rewarded with such unusual inland sights as flocks of Golden Plover (up to 75!), odd Black-bellied Plovers, a few Western Sandpipers and very rarely a Baird's, occasional Dowitchers, and a fair chance for either Wilson's or Northern Phalarope.

<u>Ducks</u> are restricted pretty much to dabblers, since the water is too shallow for most divers. Yet Pied-billed Grebe, Ruddy Duck, and Hooded Merganser do occur fairly regularly. The nesting pairs and young of the Black, Mallard, and Wood Duck families are augmented by other birds from elsewhere, the collection building up into the hundreds. The chief feature of autumn is the state's largest inland concentration of American Wigeon, numbering over a thousand at times. These are joined by several pairs of Gadwall, as well as occasional strays.

Great Meadows is no Mt. Tom for <u>hawks</u>, but many species can be seen by birders who visit repeatedly. Back in the good old days when the marsh was truly extensive, Marsh Hawks were common and conspicuous, but today only an occasional migrant comes by and then doesn't stay long. Broad-winged and Red-tailed Hawks sometimes nest in the vicinity and can be seen much more often than the Red-shouldered, whose fortunes have nosedived in the Sudbury Valley. Ospreys continue to be regular migrants and often stay around the refuge, providing a good show. Bald Eagles are noted perhaps once a year, but they pass by and don't linger. Merlins (formerly called Pigeon Hawks) are noted occasionally in the fall, while American Kestrels (Sparrow Hawks) are somewhat more common. Since the Merlin follows the migration of shorebirds, a year with many Dunlin, for instance, should also be a good year for this hawk. <u>Herons</u> continue to use the meadows during migration, despite the catastrophic decline in the habitat. Fifteen years ago, summer days could be counted on to produce a number of pairs of both American and Least Bittern. But today the Least is absent and the American rarer than before. Black-crowned Night Herons, Great Blues, Greens, and an occasional egret stop by in the fall. The Great Blues sometimes number around a dozen, which is impressive.

<u>Rails</u> have long been of interest, and again we find that breeding Soras and Virginias have dropped considerably, though there may be an increase in Common Gallinules. But the King Rail, which apparently bred regularly in the fifties, is no longer to be seen. Yet, in August and September, a good migration of Soras and Virginias still takes place, and Great Meadows is the easiest place in the state to see these birds. Often, they walk right out of the reeds onto the mud flats -- but never too far. This action is readily seen just before dusk, when half a dozen rails may be watched on the left side of the dike about a hundred yards from the parking lot. I receive many reports of Yellow Rails in the autumn, but it seems strange that there could be so many aberrant Yellow Rails lacking the white wing patches! The Common Gallinules are difficult to miss in the fall, and again Great Meadows rates as one of the easiest places to see them.

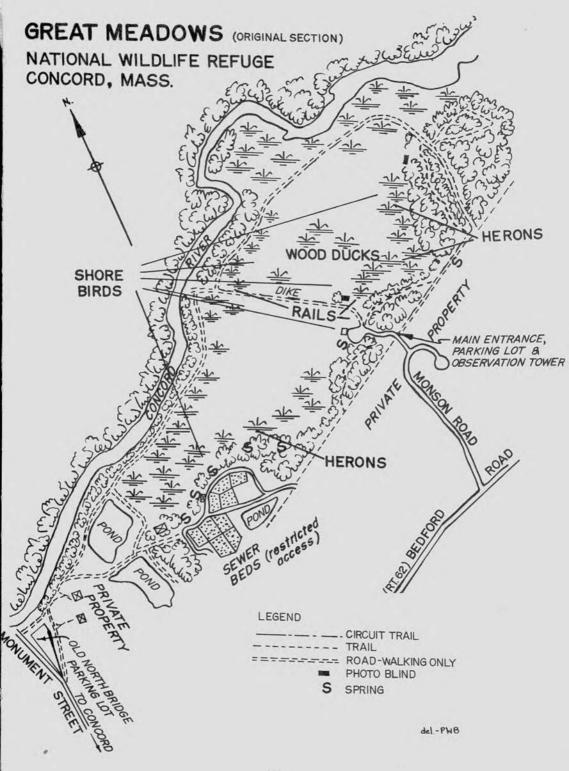
There are several <u>passerines</u> of note that may be found at the meadows. Long-billed Marsh-Wrens still breed, though in smaller numbers than before. At this time of year they can be induced into view among patches of cattails beside the dikes, particularly if you are alone. Short-billed Marsh-Wrens are now extremely rare. Swamp Sparrows, which are permanent residents, are noted all fall, along with the ubiquitous Song Sparrow in many habitats. Savannah Sparrows can be seen on the main dike about half way out, and Sharp-tailed Sparrows are found occasionally in migration. Be careful not to call an immature Swamp a Lincoln's, or an emigrant Sharp-tailed a LeConte's!

The above remarks apply to the original section of the refuge in Concord, between the Old North Bridge and the Bedford line, which is reached off Monson Road. The newer additions to the refuge are not so productive nor accessible. Perhaps if dikes, impoundments, and the like are funded for places like the Sudbury meadows, they too will be worth many visits. One way to see these other sections is to rent a cance from the South Bridge Boathouse in Concord, on Main Street at the Sudbury River Bridge.

Any significant sightings should be reported in writing with pertinent details to: Refuge Manager, GMNWR, 191 Sudbury Road, Concord, Massachusetts 01742 and the Massachusetts Audubon Society, Lincoln, Massachusetts 01773 (marked to the attention of Ruth Emery, James Baird, or Peter Alden). Outstanding rarities that might require verification should be telephoned to MAS at 259-9500 (ask for Mr. Baird or Mr. Alden). A checklist for Great Meadows (including 209 species seen since 1944) is available at the refuge parking lot or from the manager.



An abundant fall migrant is the Semipalmated Sandpiper. This photograph was taken at Great Meadows by L. J. Robinson with a 2,000-mm. lens. 110



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## GREAT MEADOWS NATIONAL WILDLIFE REFUGE

There are four National Wildlife Refuges in Massachusetts: Great Meadows in Concord, Monomoy in Chatham, Farker River in Newburyport, and Thacher Island in Rockport. The latter three are coastal, while Great Meadows is inland, along the Sudbury and Concord rivers.

Great Meadows is unusual in that it is about 10 miles long and varies greatly in width, according to the width of the river floodplain, which generally defines the refuge boundaries. In some areas along the river the refuge is only about 20 feet across. It extends into seven towns: Sudbury, Wayland, Lincoln, Concord, Bedford, Carlisle, and Billerica. Eventually, it will include most of the floodplain marshes along the Sudbury and Concord rivers, when acquisition is complete.

At present, ownership is scattered and includes about 2,700 acres of the ultimate 4,000 acres approved for acquisition. Most of the refuge was purchased with funds derived from the sale of migratory waterfowl hunting stamps (over \$614,000), and it was set aside as a resting, nesting, and feeding area for waterfowl. Great Meadows Refuge originated as the result of a donation by Samuel Hoar of Concord, when in 1944 he deeded more than 250 acres of land to the U. S. Government.

These meadows were the livelihood of the early settlers of Concord, for they reaped a rich harvest of hay every year to enable their livestock to survive the harsh winters. In 1775, after the battle at the Old North Bridge, the Minutemen took a short cut across the meadows to intercept the retreating British troops at Merriam's Corner and to harass them back to Charlestown.

In the early 1960's, expansion of the refuge began on the approved 4,000 acres. Due to funding restrictions, land acquisition has progressed slowly, but ultimately the refuge will serve to preserve and protect the riverside marshes, which are so fragile and vulnerable to the ravages of man. Anyone can destroy a marsh but no one can make one.

After the hurricane of 1938, few dead trees remained standing in eastern Massachusetts to serve as nesting sites for Wood Ducks. A few years later, Wood Duck numbers dropped dangerously low. It was then that Great Meadows became the center or cooperative efforts to save the Wood Duck in eastern Massachusetts. Wooden nest boxes were erected on the meadows to simulate natural tree cavities, and the Wood Ducks accepted them for nesting, resulting in a population rally that brought them back to the large numbers found here at present.

The refuge has always been one of the better, if not the best, inland birding area in Massachusetts. William Brewster lived just across the river, a stone's throw from the meadows, and Ludlow Griscom frequently visited the refuge, assimilating the knowledge that elevated him in the ranks of naturalists. One of Griscom's favorite places was in an area now within the refuge between Route 20 and Pelham Island Road, Wayland. This site, along with Broad Meadows in Sudbury and Wayland, is given extensive coverage in his excellent book The Birds of Concord.

Access to most of the refuge is only by boat along the two rivers, because most of the land surrounding the refuge is privately owned. The distance between the north and south ends of the refuge is about 14 miles, but in Concord about four miles separate the two largest tracts.

There are few areas along the river where a boat may be launched. The best place is the Bedford boat launch off Route 225 by the bridge. A canoe can be put in the water at the Monument Street bridge in Concord, and a boat at the Route 20 bridge in Wayland. The South Bridge Boathouse on Route 62 in Concord rents boats and canoes.

There is only one area on the refuge developed for public use: the original meadows off Monsen Road which is off Route 62 about 1.5 miles out of Concord Center towards Bedford. Where Monsen Road begins to curve to the right, turn left down a dirt road between two houses to get to the parking area inside the refuge.

At the parking lot there is an observation tower, a leaflet dispenser and about 1.5 miles of interpretive trails to enjoy. If you cross the dike, turn right at the far

side and continue around to the log cabin where nearby there are primitive restroom facilities and a short Loop Trail. Continue down the road through the woods until you reach the old abandoned railroad bed where you turn right. Proceed along the railroad bed until you reach the entrance road once more. A new modern comfort station by the entrance road should be completed this spring. The Spring Trail begins and ends at the parking area and takes about ten minutes to walk.

Birding at the meadows is best in the late summer and fall. During the late summer, water levels are lowered to encourage shorebirds to stop by on their migration. Many excellent inland sightings of shorebirds have been made at the meadows in the past few years, such as Wilson's and Northern Phalarope, Hudsonian Godwit, Ruddy Turnstone, Golden and Black-bellied Plover, Stilt, White-rumped, Baird's and Western Sandpiper, and many others. Since 1970, two Bald Eagles, a Peregrine Falcon, a Sandhill Crane, a Le Conte's Sparrow and a European Wigeon have also been observed. During the fall, waterfowl by the thousands may be seen, particularly Canada Goose, American Widgeon, and Green-winged Teal. After sundown, hundreds of waterfowl may be seen coming in to roost.

Regulations governing public use of the refuge are posted. Disturbance of wildlife or habitat is prohibited, and pets must be kept on a leash. Alcoholic beverages are likewise forbidden, and visitors must remain on existing roads and trails. The refuge is open to the public during daylight hours.

Additional specific information may be obtained by writing, telephoning, or visiting the office.

Berlin Heck Acting Refuge Manager

# LESSER BLACK-BACKED GULL (Larus fuscus graellsii)\*

A sub-adult was first found at Nauset (Eastham) on August 17, 1973, by the undersigned, who later showed it to Carl Goodrich, Bradford Blodget, and Blair Nikula. Wallace Bailey, Jeff Harris, and Vernon Laux were able to see the bird on the evening of the 17th.

This Lesser Black-backed Gull appeared to be entering into its third winter plumage. It had a slightly broken tail band (actually smudges on the ends of some of the rectrices), while the middle wing coverts and some of the under-wing linings were brownish, in sharp contrast to the slaty gray color of the back and parts of the mantle. The head had considerable freckling, especially on the crown. An eye ring was not visible. The bill appeared slightly shorter than that of surrounding Herring Gulls, being orange-yellow with a pale orange spot, immediately behind which was a black smudge. The dull pinkish legs were lighter than those of adjacent Black-backs, shading to pale straw-yellow on the backs near the joints.

Overall, the size was that of the Herring Gulls, being much less than that of the Great Black-backs. The mantle color was much darker than the Herrings but not nearly as deep as the Great Black-backs.

This bird was studied for over an hour from a distance of 300 feet through a 20-power telescope. The weather was cloudy and cool with a 15 m.p.h. northeast breeze. It rained all day on the 15th.

I believe this is only the second published record for Massachusetts, despite the recent increase in sightings throughout the Northeast. The other Massachusetts record was for September 14, 1971, when an adult (also of the race <u>L</u>. <u>f</u>. <u>graellsii</u>) was seen at Monomoy Point by Robert Clem and Wallace Bailey.

Wayne R. Petersen Abington, Mass.

\* Larus fuscus graellsii is the British and western European race of Lesser Black-backed Gull, recognized in adult plumage by a pale gray mantle and wings relative to the Scandinavian race L. <u>f. fuscus</u>, which is often as dark as the Great Black-backed Gull. -- ED. The month of July was very hot for the first couple of weeks, and precipitation, while widespread, was heavy only in the southeastern sections of the state. From midmonth on, temperatures were more nearly normal, however, rain shower activity persisted in varying degrees all over Massachusetts.

Birding in July was highlighted by several interesting breeding records, a first Atlantic Coast record, and a well-represented shorebird migration. A paucity of reports of breeding birds makes this group difficult to review.

Most remarkable of the Massachusetts nesting records was the finding of an active <u>Manx</u> <u>Shearwater</u> nest on Penikese Island in the Elizabeth Islands. A newborn chick found in a burrow on July 23rd established a first North American breeding record for this species. More on this remarkable discovery will follow in a later issue.

A first Massachusetts nesting for the <u>Fish</u> <u>Crow</u> took place in urban West Roxbury this summer. Two active nests were located, thus establishing long-overdue, positive, breeding evidence.

On the elusive side were the established nestings of <u>Barn</u> <u>Owls</u> in Sandwich and <u>Henslow's</u> Sparrows in Leicester.

Certainly, one of the most bizarre field records of the decade was the discovery and capture of a <u>Red-billed Tropicbird</u> in Providence, Rhode Island. The exhausted bird was caught alive while it was sitting on the tenth floor window sill of the Rhode Island Hospital Trust Bank Building. It found its way first to Alfred Hawkes of the Rhode Island Audubon Society and finally to James Baird at Drumlin Farm in Lincoln. The bird died on July 4th and has been preserved for the state collection of Rhode Island birds. It constitutes the first confirmed report on the eastern coast of the United States.

Among the shorebirds, two very early <u>Long-billed Dowitchers</u> were noted, as were a number of uncommon species such as <u>American</u> <u>Oystercatcher</u>, <u>Ruff</u>, <u>Avocet</u> and <u>Wilson's Phalarope</u>. As with the nesting birds, a lack of reports from the key shorebird areas makes a more complete summary impossible.

A <u>Northern Skua</u>, well-studied from a boat off Chatham, is just one more record in the growing file of records for this species in northeastern offshore waters. While Royal Terns were represented by seven reports, they were distinctly absent from their traditional outer Cape Cod beaches. The continuing fade-out of the <u>Black Skimmer</u> at the northern limit of its range was evidenced by only two reports all month.

Again, a Chuck-will's Widow remained throughout the month on Chappaquiddick Island! While nesting has been suspected, it is always difficult to prove for such an elusive species.

R.H.S.

Common Loon	12		
thr.	Monomoy	max. 16	J.Harris
Red-throate	d Loon:		
8;19,20	Manomet; Monomoy	2;1	J.Loughlin; J.Harris
Pied-billed	Grebe:		
23	P.I.	5(3 yg.on ad.back)	BBC(G.Soucy)
17	P.I.	4 families	W.Petersen
Greater She	arwater:		
1	Barnstable, Wellfleet	1,1	R.Pease#,W.Bailey
22	Chatham(Pollock's Rip)	40-50	W.Harrington#
Sooty Shear	water:		
1,4	Barnstable, Provincetown	1,1	P.Martin#,H.D'Entremont#
Manx Shearw	mater:		
23	Penikese Island	1 chick at burrow	G.Ben David
25	Barnstable(Sandy Neck)	1	R.Pease
Wilson's St	orm Petrel:		
4,22	Boston Harbor, Chatham (P.	Rip) 220,1000	D.Brown#,W.Harrington#
Gannet:			
1,21	Barnstable, Eastham	2,1	R.Pease, B.Nikula#

	Great Blue H			
	20,25 Green Heron:	Eastham, P.I.	5,5	v.o.,M&A Argue
	thr.	P.I.	max. 8(23rd)	v.o.
	Cattle Egret 8,10-15	: Ipswich,S.Dartmouth	1,12	J.Loughlin, PBC(P.Regan)
	Great Egret:	ipswich, o. bai unoutin	- ,	o.toughtin, 100(1.hegan)
	thr.,1	P.I.,Westport	1-3,2	v.o.,E.Morrier
	5,22	Fall River, Squantum	1,1	R.Langley#,J.O'Regan
	Snowy Egret: thr.	P.I.	max. 100	v.o.
	Louisiana He			
	23 Black-crowne	P.I. d Night Heron:	1	D.Brown
		Cambridge, P.I.	20,20	R.Stymeist, BBC(G.Soucy)
	28	Eastham	64+	W.Petersen
		ed Night Heron:	) 1	IT Ded Level
	10 Least Bitter	Eastham(Coast Guard Beach)	/ 1	W.Bailey#
		P.I.	1	v.o.
	American Bit			
	AND THE REPORT OF A DESCRIPTION OF A DESCRIPANCON OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DE	P.I.	1	BBC(G.Soucy)
	Glossy Ibis: thr8-31	P.I.,Halifax	max. 40,15	v.o.,D.Briggs#
		Manomet, Duxbury	3,14	T.Lloyd-Evans, D.Gray
		Squantum, S. Westport	6,2	A.Agush,Tuckerman
	Gadwall:	D.T.	may 15	
	thr. 17	P.I. P.I.	max. 15 2 f. & yg.	v.o. W.Petersen
	Pintail:			
	thr.	P.I.	max. 12	v.o.
	Green-winged	Teal: P.I.	max. 24	v.o.
	thr. Blue-winged '		md.x . 24	v.o.
		P.I.	max. 12	v.o.
	Baldpate:		_	
	17 Northern Sho	P.I.	5	W.Petersen
		Monomoy, N. Quincy	max. 12,1	J.Harris, W.Cornwell
1	Wood Duck:			
			lf.&4yg.,2f.&8yg.	F.Atwood,E.Taylor
	4,28 Common Eider	P.I.	lf.&4yg., 9 yg.	J.Berry
	1	Chatham	1	R.Pease
	White-winged			
	17,28,30 Surf Scoter:	Chatham, P.I., Ipswich	1,2,5	B.Nikula#,J.Berry,R.Dwelley
	thr.	Eastham(Coast Guard Beach)	) 2	B.Nikula#
	Ruddy Duck:		max. 4	
	thr. Goshawk:	P.I.	max. 4	v.o.
	8	Groton	1	B.O'Hara
3	Cooper's Hawl			
	5 Broad-winged	Middleboro	1	D.Briggs
	thr.	Sherborn(Broadmoor)	1	E.Taylor
j	Marsh Hawk:			
	22	Monomoy	1	R.Pease
1	Osprey: 3,28	Barnstable, Manomet	3,1	R.Pease, J.Loughlin
1	Ruffed Grouse		5,2	
	6,10	Hingham, Sandwich	1,1	C.Clark,R.Pease
1	Clapper Rail			B.Nikula#
	9-10 Virginia Rail	Eastham L:	1	D.MIKULA#
		W.Roxbury, P.I.	3-5,2	F.Atwood, J.Berry
	Sora:	W Rowhume Concord (CHORER)		F Attrood F Terlon T Berny
	13,21,20	W.Roxbury, Concord (GMNWR), H		F.Atwood, E.Taylor, J.Berry
			115	

115

t.

C	242		
Common Gal thr.	P.I.	10	
	W.Harwich,Concord(GMNWR)	max. 12	V.O. P. Nikula PPC(F Maxley)
	ystercatcher:	1,2	B.Nikula,BBC(E.Taylor)
thr.	Monomoy	3	v.o.
Semipalmat			
9,23,31 Piping Plo		2,12,20	Carmichaels,G.Soucy#,D.Brown#
2,10	P.I., Plymouth Beach	6,2 chicks	BBC(G.Soucy), Carmichaels
Golden Plo			
15 Black-bell	P.I. ied Plover:	2	G.Soucy#
	P.I.,Squantum	1-5,34	v.o.,D.Brown#
Ruddy Turn	stone:		
thr. American Wo	P.I.	1-4	v.o.
1,2,30	Rowley, Canton, Manomet	2,1,1	J.Clancy, E.Morrier, T.Lloyd-Evans
Whimbrel:		-,-,-	oronancj yzmorrier yrizroju-zvano
thr.	P.I., Monomoy	2,max. 6	G.Soucy#,v.o.
21,29	Wellfleet(WBWS),Barnstable	7,2	R.Stymeist#,H.D'Entremont#
Upland Sand			
thr. Solitary Sa	Newburyport	max. 3	v.o.
1,15	Middleboro, Halifax	1,2	D.Briggs
21,29	Concord (GMNWR), Eastham	1,5	BBC(E.Taylor), W. Petersen
Willet:		-12	
4	P.I.	1	J.Berry
8,22	Monomoy	5,1	W.Harrington, BBC(R.Stymeist)
Greater Yel	Llowlegs:		
thr.	P.I.	max. 75+	v.o.
Lesser Yell			
thr.,17	P.I.	max. 75,125+	v.o.,W.Petersen
Red Knot: 9,22	Plymouth, Chatham	2,150	Cormichaels V Verminster
23	P.I.,Scituate	95,300	Carmichaels, W. Harrington BBC(G. Soucy), C. Clark
Pectoral Sa		37,500	bbe(G.bouey), C.CLAIK
	P.I., Chatham (North Beach)	1-2,31	v.o.,F.Atwood
	d Sandpiper:		
8,22,25	Squantum, Chatham, P.I.	3,2,1	D.Brown, W.Cornwell, M&A Argue
Least Sandy			
thr.	P.I.	max. 100+	v.o.
Dunlin:	P.T. Manamau		T Debinen DDG(D Gt - 1 + )
21,22 Short-hille	P.I., Monomoy d Dowitcher:	1,1	L.Robinson,BBC(R.Stymeist)
thr., 8		ax. 1000,250	v.o.,D.Brown
	Dowitcher:	un. 1000,100	
17		breeding plumage	W.Petersen,R.Forster
Stilt_Sandp			· · · · · · · · · · · · · · · · · · ·
thr.,17		max. 8,14	v.o., W.Petersen
26,29	Monomoy, Rowley	2,2	W.Petersen, M&A Argue
Semipalmate	d Sandpiper:		
thr.	P.I.	max. 5000	M&A Argue
Western San			
9,21	Eastham(Coast Guard Beach)	1,1	B.Blodget, B.Nikula
27	Eastham(Coast Guard Beach)	1	W.Petersen
Marbled God			
18,21	Newburyport	2,2	M.Gardler, J.Baird
Hudsonian G		60 10	T Tourshilds H D Grand and A
thr. Ruff:	Monomoy, P.I.	max.60,max.40	J.Loughlin#,D.Crompton & v.o.
1-17,29	P.I., Newburyport, P.I.	1-2 1	V O H I Jodrevil
12	Eastham	1-2,1	v.o.,H.L.Jodrey# B.Nikula
Sanderling:		-	are the and the te
16,31	P.I., Plymouth Beach	50,1000+	BBC(S.Garrett),Carmichaels
Avocet:		,	
25	Eastham(Coast Guard Beach)	1	W.Petersen, C.Goodrich, v.o.
29-30	Barnstable(Sandy Neck)	l	W.Drummond#,H.D'Entremont#

Wilson's Ph 6,25-29	alarope: Monomoy, Eastham	1,1	V.Laux, B.Blodget & v.o.
Northern Ph		-,-	···baux, bibliougeo a ·····
30	Ipswich Bay	50	R.Dwelley#
Parasitic J 4,22		1,1	R.Pease, W.Harrington
26,29	Barnstable, Monomoy Monomoy, Chatham	1,1	W.Petersen, J.Loughlin
Northern Sk			
22	Chatham(Pollock's Rip)	·1	W.Harrington#
Black-heade			W Low & m o D Fenster
6 26	Monomoy, Newburyport Monomoy	l,l l sub-adult	V.Laux & v.o.,R.Forster W.Petersen
Little Gull	:		
17	P.I.	3	W.Petersen
Forster's T			D W/1-1-
29	Eastham(Coast Guard Beach)	l	B.Nikula
Arctic Tern		2,3	L.Robinson,BBC(R.Stymeist)
21,22 22,27	P.I., Monomoy Chatham, Eastham	1,1	W.Cornwell, R. Pease
Roseate Ter		-,-	with the state of
1,4	Chatham, Ipswich	2,9	R.Emery#,M.McClellan
Royal Tern:		- **	
		,max. 5 (15th)	Carmichaels & v.o.
16,20	Sandwich, Eastham	1,1	R.Pease,G.Soucy#
Black Tern:			
2,23,29	Plymouth Beach	1,1,3	P.Fox#, P.Donahue, Carmichaels
4,22,29	Sandwich, Chatham, Dennis	1,1,2	R.Pease, R.Stymeist#, R.Pease
Black Skimm			
	Plymouth Beach, P.I.	1,1	J.Garton#& Carmichaels,G.Soucy
Monk Parake		0	
25	Middleboro	2	N.Hill
Mourning Do		300+	R.Stymeist, R.Pease
21 Screech Owl	Sandwich .	2004	N. Stymerst, N. Pease
thr.	Sherborn(Broadmoor)	2	E.Taylor .
Yellow-bill		-	
2:8	Milton(FM); Manomet, Littleton	1;1,1	E.Morrier; J.Loughlin, J.Baird
21,22	Sandwich, Dorchester	1,1	R.Stymeist, J.O'Regan
Black-bille	d Cuckoo:		
4,5	W.Newbury, Burlington	5,1	S.Garrett, H.D'Entremont
6,7,8	Sandwich, Bedford, Sherborn	1,3,2	R.Pease, F.Atwood, E.Taylor
Barn Owl:			m 11 1 m
thr.		banded in nest	T.Lloyd-Evans
Saw-whet Ow 9	Winchester	1	M.McClellan
Chuck-will'		-	Hencoleilan
thr.	Chappaquiddick Island(M.V.)	1	E. M. Sears
Whip-poor-w			
1-15	Sherborn	3	E.Taylor
5,7	Foxboro, W. Roxbury	1,1	H.D'Entremont, M. Bagley
Ruby-throat	ed Hummingbird:		
3	Sandwich	1	R.Pease
Pileated Wo			
	Annisquam, Weston	1,2	H.Wiggin, D. Peebles
Eastern Kin	• · · · · · · · · · · · · · · · · · · ·	OF	BBC(G.Soucy)
23	P.I.	25	bbc(G.boucy)
	ted Flycatcher: Roslindale(Stony Brook)	6+	F.Atwood
Eastern Pho		01	1.Autood
4,13	Sherborn, W. Roxbury	5,1	E.Taylor, F.Atwood
Willow Flyc			
	Brookfield, W. Roxbury	7,5	T.Leverich#,F.Atwood
	P.I.	1,1	BBC(S.Garrett), M.Gardler
Tree Swallo			
		ax. 600+ (9th)	BBC(E.Pyburn)
Bank Swallo		001 75	D D. L. H DDG/G G \
2	Middleboro, P.I.	80+,15	D.Briggs#,BBC(G.Soucy)
		117	

	Rough-winge				
	2 Purple Mart	Hingham in.		1	C.Clark
		Middleboro,E.Mi	ddleboro	8 pr.,35 pr.	R.Maxim,W.Wiksten
	14,27	W.Roxbury 2pr d Nuthatch:	.(l yg.fledg	ged,3 yg.fledged)	F.Atwood
	8,20	Groton, Dedham		2,1	R.O'Hara, F. Atwood
	Brown Creep 7,8	W.Roxbury, Groton	n	2,2	F.Atwood,R.O'Hara
	Carolina Wr 8	Newton		ı	D.Howard
		Marsh Wren: Concord(GMNWR), H	P.I.	10,12	BBC(E.Taylor), BBC(G.Soucy)
	Gray Catbir	đ:			
	thr. Hermit Thru	Manomet sh:		44(banded)	M.B.O.Staff
	18 Eastern Blu	Plymouth		3(singing)	R.Langley, C. Clark
		Sherborn		9(2 broods)	E.Taylor
		Falmouth, Roslind	ale	5,1	
			TATE		R.Pease#,F.Atwood
		Plymouth		2	R.Langley#
	Cedar Waxwi				
	8	Groton		20	R.O'Hara#
	White-eyed				
	thr.,4	Manomet, W. Newbur	y	1(banded),2	M.B.O.Staff, J.Berry
	Blue-winged				
		W.Newbury, Plymou	th Groton	3 2 1	T Remmer T Loughlin D Ollons
à	Nashville W	whice build it is it is more	1011,010001	3,2,1	J.Berry, J.Loughlin, R.O'Hara
-					
		Brookline, P.I.		1,1	A.Agush,M&A Argue
3	Northern Pa	rula:			
	1	Harwich		1	R.Pease
-	Yellow Warb	ler:			
		W.Roxbury		20	F.Atwood
3		led Warbler:		20	1.AUWOOD
		Sandwich			
1				1	R.Pease
2	Pine Warble				
		Falmouth, Wellfle	et;Groton	2,1;6	R.Stymeist#, P.Martin#; A.Agush#
	Prairie War	oler:			
	1,4	Falmouth, W. Newbu	ry	1,3	R.Pease, J.Berry
1	Canada Warb				
		Groton		1	A.Agush#
à	Bobolink:	dioton		-	A. Agustin
1		D.T.			angle a l
		P.I.		1	BBC(G.Soucy)
3	Scarlet Tana				
		Sherborn (Broadmo	or)	15	E.Taylor
1	Rose-breaste	d Grosbeak:			
	2,27	Milton(FM), W.Rox	bury	9,5	E.Morrier, F.Atwood
1	Indigo Bunt:	ng:			
		W.Roxbury		6	F.Atwood
4	House Finch:			0	r.Acwood
1					
		Wollaston, Groton	,W.Roxbury	3,1,6	R.Emery, R.O'Hara#, F.Atwood
3	Pine Siskin:				
	23	Lexington		1	Mrs.P.Reed & v.o.
5	Savannah Spa	rrow:			
	29,31	Chatham, Squantum		25,6	F.Atwood, D.Brown#
C	rasshopper				· ····································
-	1,28	Falmouth, Worcest	o	5.0	P. Deseral T. Class
			er	5,2	R.Pease#,J.Clancy
1	lenslow's Sp				
	thr.	Leicester(Worc.A:	irport)	2+	F.McMenemy & v.o.
	30	Leicester (Worc.A:	irport) 4(2	in nearby field)	W.Petersen, C.Goodrich
V	Thite-throat	ed Sparrow:			
1	4	W.Newbury		2	J.Berry
				-	U.DCITY

## THE BIRD OBSERVER SUMMARY FOR AUGUST

The month of August found the shorebird migration at its peak and land birds were also beginning to move. A <u>Manx Shearwater</u> chick was fledged on Penikese Island. An outstanding count of 3500 Wilson's Storm Petrels was found off Chatham. The increasing reports of Yellow-crowned Night Herons were encouraging, however, only a lone Least Bittern was reported. Limited reports of hawks were highlighted by two Turkey Vultures in Dedham. An immature <u>Yellow Rail</u> came aboard a fishing boat at Little George's Bank on August 24th and remained there for three days until docking at Vineyard Haven, Martha's Vineyard. The bird was taken to Felix Neck Audubon Sanctuary on August 27th. Attempts to feed the bird in captivity failed; it was banded, photographed and released. Reports of shorebirds reflected a good migration and included a large number of Golden Plover, Red Knot, several Whimbrel, Willet, Baird's and early Buff-breasted Sandpipers. Two Marbled Godwits were also reported and a Ruff was found in Newburyport.

A Lesser Black-backed Gull was identified on Coast Guard Beach, Eastham, and an excellent report is included in this issue.

A <u>Gull-billed Tern</u> was found in the salt pans at Plum Island early in the month where it continued into September. <u>Forster's Terns</u> were reported in unusual numbers this year, in comparison with previous years. Good counts of Black Terns were also reported. Black Skimmers, on the other hand, were discouragingly scarce. An interesting report of three different songs from the same Alder Flycatcher was notable. Warbler reports were headlined by two Cerulean and one Kentucky Warbler. Two Yellow-headed Blackbirds were seen, and two out-of-season Red Crossbills were found on Martha's Vineyard.

The <u>Henslow's Sparrows</u> successfully nested at Leicester. Early Lark and <u>Clay-colored</u> Sparrows rounded out an eventful month of birding.

Cory's Shearw	ater.		
24	Tuckernuck I., Chilmark(M.V	.) 10,4	R.Veit,A.Keith
29&30	Chilmark(M.V.)	20+	A.Keith, R.Sargent
Greater Shear		20.	
4,11	off Eastham, off Rockport	200+,20	W.Petersen#,BBC(H.L.Jodrey)
	off Chatham, Plymouth	75+,1	W.Petersen#,H&D Carmichael
Sooty Shearwa		12.3-	
13	off Chatham	1	W.Harrington#
Manx Shearwat			
6.13	off Chatham	1,1	W.Harrington#
	Penikese I.	1 chick	P.Garrey
Leach's Storm			
12,13	off Chatham	2,3-4	W.Harrington, W.Petersen
Wilson's Stor			
12&13	off Chatham	3500	W.Harrington, W.Petersen
Gannet:			
	off Rockport, Barnstable	2,3	BBC(H.L.Jodrey), W.Petersen
Double-creste			
16,29	Squantum, P.I.	150+,150+	E.Morrier, H.Bates#
Great Blue He			
26	Eastham(F.H.)	40+	W.Petersen
Little Blue H			
The second s	P.I., Monomoy	l imm.,l	M.Gardler, J.Harris & v.o.
	Tuckernuck I., Barnstable	2,1 imm.	R.Veit, W.Petersen
Cattle Egret:			
23,27-31	Barnstable, Edgartown(M.V.)	1,1	R.Pease,S.Whiting#
Great Egret:			
thr.,18-31	Eastham, P.I.	1,1	v.o.,v.o.
5.17	Hingham, Squantum	1,1	C.Clark, A.Agush
22,25	Wellfleet,Westport	1,2	B.Nikula#,BBC(S.Grinley)
Snowy Egret:	-		
thr.	P.I.	max.250(18th)	D.Alexander & v.o.
Louisiana Her	on:		
1-8,15	Monomoy, Eastham	1,1	v.o.,W.Petersen# & v.o.
	Barnstable, Chappaquiddick	I. 1,4	W.Petersen, E.M. Sears#
Black-crowned			
thr.,6		96(at most),14	B.Blodget & v.o., E.Morrier

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Yellow-crow	ned Night Heron:		
thr.	Centerville, Monomoy	1,1-2	V.Laux, J.Harris & v.o.
thr.	Tuckernuck I., Chappaquiddic		R.Veit,E.M.Sears#
thr. 4&26	Eastham, Wellfleet, Truro S. Dartmouth	1,1,1	v.o.,v.o.,J.Young P.Regan
Least Bitte		-	r.negan
16-29	P.I.	1	v.o.
American Bi			
18,20	Monomoy	l(uncommon)	R.Stymeist#,W.Petersen#
Glossy Ibis		0 15 1 7	
	P.I., Concord (GMNWR) Squantum, Eastham	2-15,1-7 3-4,1	v.o.,v.o. E.Morrier,W.Petersen#
11,25	Monomoy, Chappaquiddick I.	3,1	J.Harris & v.o., R.Sargent#
25	Westport	1	BBC(S.Grinley)
Mute Swan:			
26	Chilmark(M.V.)	229	A.Keith
Black Duck:	Managemen	2001	TT The second design of the se
20 Gadwall:	Monomoy	300+	W.Petersen#
20	Monomoy	25+	W.Petersen#
Blue-winged			
31	Martha's Vineyard	250+	A.Keith#
Northern Sho			
20 Mard Duch	Monomoy	12+	W.Petersen#
Wood Duck: 14	Barnstable	7	R.Pease
Ring-necked		1	N.rease
15	Brookline	1	A.Agush
Bufflehead:			
11	P.I.	1	D.Fisher# & v.o.
Surf Scoter:			
20 Hooded Merga	Monomoy	1	W.Petersen#
	Cambridge(Mt.A),Edgartown(M	I.V.) 1,	A.Agush & v.o.,G.Ben David#
Turkey Vultu			and a statistical second
17	Dedham	2	V.Sprong#
Red-shoulder			
25 Marsh Hawk:	Plymouth	l	SSBC(S.Higginbotham)
20	Monomoy	6	W.Petersen#
Osprey:			
25	Westport	10	BBC(S.Grinley)
Ruffed Grous			
17 Ving Pail.	W.Roxbury	l	J.Pickup
King Rail: 24	P.I.	1	BBC(H.Weissberg)
Clapper Rail		-	ppo(mencipportB)
1	Eastham	1	W.Petersen
Virginia Rai			
5,18	Monomoy, Concord (GMNWR)	1,8	B.Nikula#,A.Agush
Sora: 19,20	Concord (GMNWR), Monomoy	3 1	I DeCiscomo# W Potencer#
Yellow Rail:		3,1	L.DeGiacomo#,W.Petersen#
28	off Edgartown(M.V.)	1	R.Sargent, G.Ben David, A.Keith
Common Galli			
thr.	Monomoy	1	W.Petersen
American Oys		2 5/5+2) 2	¥ 2
thr. Semipalmated	Monomoy, Chappaquiddick I.	3-5(5th),3	v.o.,M.Sears#
1;5,22	Scituate; Monomoy, Barnstable	800;500,600	J.Nichols#;W.Petersen#
Piping Plove		,,,	· · · · · · · · · · · · · · · · · · ·
18	Monomoy	55	R.Stymeist#
Killdeer:			
7,20	S.Dartmouth, Monomoy	14,1(uncommon)	R.Emery#,W.Petersen#
Golden Plove 16,20	r: Penikese I.,Monomoy	1,1	F Convert W Petersont
22	P.I., Duxbury	37,13	E.Garrey#,W.Petersen# N.Claflin#,M.B.O.Staff
		5.,-5	
		3.00	

Black-bellie 22,25	d Plover: Plymouth,Duxbury	350,700	M.B.O.Staff
Ruddy Turnst 16,19	one: P.I.,Ipswich	200+,300+	M&A Argue, J. Berry
Common Snipe	: 1999 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997		
26 Whimbrel:	Concord (GMNWR)	10	L.Robinson
5,13	Monomoy, Tuckernuck I.	10,11	BBC(H.D'Entremont),R.Veit
Upland Sandp 25,30	Katama(M.V.), Newburyport	4,2	E.Chalif#,F.Atwood
Spotted Sandy 16	piper: Penikese I.	30+	E.Garrey#
Solitary San	dpiper:		
2-26 20	Concord(GMNWR)	11,1	v.o. W.Petersen#,M.McClellan
Willet:	Monomoy, Winchester	1,1	w.reversen#,M.Mcorerran
7-24	Plymouth	1-6	Carmichaels & v.o.
	Eastham Transieb Menomen	1-5	W.Petersen# & v.o. J.Berry,R.Pease#
20,28 Greater Yell	Ipswich,Monomoy	2,5	J. Derry, A. reasen
	Duxbury	100	M.B.O.Staff
1.19	Scituate(Third Cliff)	2000+,300	J.Nichols#,C.Clark#
7,22;22	Plymouth Beach; P.I.	1000+,200;200	Carmichaels;S.Swaebe#
Pectoral San	dpiper: Concord(GMNWR)	max. 30(26th)	L.Robinson & v.o.
5-31 5,20	W.Newbury, Monomoy	24,20	R.Stymeist#,W.Petersen#
White-rumped			
22	Plymouth Beach	<u>90</u>	B.Sorrie#
Baird's Sand 14,18	piper: Monomoy,Tuckernuck	1,1	W.Bailey, R.Veit
19,28	Scituate, Duxbury	1,1	C.Clark, M.B.O.Staff
	P.I.	1-2	v.o.
Short-billed		500 500	D Decent II Determont
5,12 Long-billed	Monomoy, Eastham	500,500	R.Pease#,W.Petersen#
16,18	Tuckernuck I., P.I.	1,2	R.Veit,P.Butler#
	P.I., Monomoy n	max.40(11th),max.20	R.Stymeist#&v.o.,J.Harris#&v.o.
	Barnstable, Plymouth	1700+,5500+	BBC(H.D'Entremont),M.B.O.Staff
Western Sand	piper: Eastham,Monomoy,Wellflee	et maxs.33,15+,5	v.o.
	Duxbury Beach	20	M.B.O.Staff
	Tuckernuck I., Eastham	1,1-4	R.Veit, v.o.
14-30,23	P.I./Newburyport,Plymout	th 1-4,1	v.o.,Carmichaels
Marbled Godw	it: Eastham,Monomoy	2,1	W.Petersen#,W.Bailey
12,14 Hudsonian Go		- <b>,</b> -	ner cocr bear snebarroy
		95(5th),max.60(16th)	W.Petersen#&v.o.,M&A Argue&v.o.
1	Newburyport	1	M.Gardler
Sanderling:	Plymouth, Duxbury	1000+,800	R.Stymeist#,M.B.O.Staff
12,23 Red Phalarop		10001,000	A.Doymerbox probootari
8-31,11 12,13;28	Nauset, off Rockport off Chatham; Monomoy	max. 2,5 1,1;1	W.Petersen#,BBC(H.L.Jodrey) W.Harrington;M&A Argue
Wilson's Pha			
5,8;7,23	Monomoy; Nauset	1-2;1,1	W.Petersen#;v.o.
11 on 23,24	P.I. Wellfleet(WBWS)	8 1,1	v.o. B.Nikula & v.o.
Northern Pha		-,-	
6,11 13;14,19	off Chatham, off Rockport Plymouth Beach; P.I.	200,235 40;5,4	W.Petersen#,BBC(H.L.Jodrey) M.B.O.Staff;M.Gardler,D.Alexander
Pomarine Jae			Cormicheola P Pesso
9,15 29	Plymouth Beach, Barnstabl Vineyard Sound	le l,l l ad.	Carmichaels,R.Pease A.Keith,R.Sargent
		121	

Parasitic Jaeger: 13,23,25 Barnstable singles R. Pease 16-24 Tuckernuck I. 2-20 R.Veit 22 Manomet Point, Plymouth Beach 7,15 J.Loughlin, B.Harrington Great Black-backed Gull: 18 Eastham(C.Guard Bch.), Monomoy 2500, 3000 BBC(R.Stymeist) Lesser Black-backed Gull: Nauset(Coast Guard Beach) 1(sub adult) 16-17 W.Petersen & C.Goodrich & v.o. Black-headed Gull: 5.28 Monomoy 1,1 W.Petersen#.R.Pease# Laughing Gull: 485 Chatham 25 BBC(H.D'Entremont) 10,14 Winthrop, Squantum 4,30 M&A Argue.D.Brown# 12,18 Hingham, Monomoy 2,30 C.Clark, BBC(R.Stymeist) 31 Edgartown(M.V.) A.Keith# 5 Bonaparte's Gull: 6 Newburyport 50 BBC(S.Garrett) 1,2 Plymouth Beach H.D'Entremont.Carmichaels 21,22 Little Gull: 12,16;29 P.I.; Newburyport 1,1;1 G.Soucy#, fide M&AArgue; J.Baring Black-legged Kittiwake: 15,18,23 Sandwich/Barnstable 1,1,2 R.Pease 19,21 Manomet, Tuckernuck I. l imm.,l M.B.O.Staff,R.Veit 5 imm. W.Petersen# 22 Barnstable Gull-billed Tern: P.I., Newburyport J.Baird# & v.o. 1 5 on Forster's Tern: Newburyport, Plymouth Beach 12 on max.3,max.4 v.o. 22 Wellfleet(WBWS) V.Laux thr. Nauset, Monomoy max.7(30th),max.5 v.o. Common Tern: 4,21 S.Dartmouth, Plymouth Beach 10-12(4yg.), 1000 P.Regan, H.D'Entremont# 18,23 Monomoy, Wellfleet(WBWS) 400,24+ BBC(R.Stymeist), Holdridge Artic Tern: 12:18 Plymouth Bh., Monomoy, W. Glouc. 1;1,1 R.Stymeist#;R.Pease#,H.Wiggin Roseate Tern: Westport (Gooseberry Neck) 100 R.Emery# Argues, SSBC(S.Higginbotham) 16,25 P.I., Plymouth Beach 35,92 Least Tern: 4,18 S.Dartmouth,Eastham 6-8,10 P.Regan, BBC(R.Stymeist) Royal Tern: Squantum, off Chatham E.Morrier, W.Harrington# 11,12 1,1 19-27,20 Plymouth Beach, Monomoy 1-2,1 Carmichaels.J.Harris# Black Tern: 9-23;5,28 Barnstable;Monomoy max. 27;1,1 R.Pease# Carmichaels# 20 Plymouth 1-2 21,29 Nauset Beach 2,1 H.D'Entremont, Argues Black Skimmer: - 4,8 R.Hauselman, J.Loughlin P.I., Monomoy 24-25,24 Plymouth Beach, Duxbury Beach 1,1 SSBC(S.Higginbotham)#,M.B.O.Staff Mourning Dove: Medfield 150 E.Taylor 19 Yellow-billed Cuckoo: 5,20 Hingham, Monomoy 1,1 C.Clark, W.Petersen# Black-billed Cuckoo: thr.,6 Annisquam, Sandwich 1,1 H.Wiggin, R. Pease thr.,18 1,3 W.Roxbury, Concord (GMNWR) F.Atwood, A.Agush A.Agush, B.Blodget 9,16 Milton(F.M.), Westminster 1,1 Screech Owl: 27,29 S.Dartmouth, Annisquam 1,1 P.Regan#,H.Wiggin J.Harris# 23 Monomoy 2 M.Hancock# 24 Oak Bluffs-Seugeconteeket(M.V.) Whip-poor Will: B.Blodget, W.Petersen 28,30 Westminster, Eastham 1,1 Common Nighthawk: 24,26 Weston.Newton 30-40.14 L.Robinson.G.Walsh Ruby-throated Hummingbird: 5-29,28 Sandwich, Carlisle max.2,1 R.Pease, C.Carbone 122

Common Flicker: W.Roxbury 20-25 thr. F.Atwood Eastern Kingbird: thr.,19 W.Roxbury, Topsfield(IRWS) 22-50 F.Atwood#, J.Berry Great-crested Flycatcher: W.Roxbury F.Atwood, v.o. 11 thr. 27 Tewksbury 2 M.Wilson Yellow-bellied Flycatcher: thr. Manomet,S.Dartmouth 10(banded),1(banded) M.B.O.Staff,P.Regan# 18,20,22 P.I.,Monomoy,Sandwich 1,1,1 R.Forster,W.Petersen R.Forster, W.Petersen#, R.Pease Willow Flycatcher: 4,12 W.Roxbury, Sandwich 1,1 F.Atwood, R. Pease Alder Flycatcher: 4 Brookfield 2 R.Stymeist, R.Veit, P.Polshek (interesting report of three different songs from one bird.) Least Flycatcher: thr. Manomet 7(banded) M.B.O.Staff Eastern Wood Pewee: thr. Manomet 3(banded) M.B.O.Staff Olive-sided Flycatcher: 3 Acton 1 J.Baird Tree Swallow: 5 Natick(Broadmoor) young fledged E.Taylor 22,25 Barnstable, P.I. 300,1500+ W.Petersen, R.Stymeist Rough-winged Swallow: Brookfield 2 R.Veit, R.Stymeist Cliff Swallow: 18 P.I. 1 BBC(I.Giriunas) Purple Martin: 20,25 Monomoy, P.I. 1(uncommon),25 W.Petersen#,R.Stymeist Fish Crow: West Roxbury thr. 30 F.Atwood.v.o. Black-capped Chickadee: thr. Manomet 37(banded) M.B.O.Staff Red-breasted Nuthatch: 20,24-29 Eastham, W.Roxbury 1,1-3 W.Petersen, F.Atwood Brown Creeper: 25 Chilmark(M.V.) 1 A.Keith House Wren: 20 Sherborn young fledged E.Taylor Carolina Wren: Plymouth, S. Dartmouth 1(banded), 1(banded) M.B.O. Staff, P. Regan# thr. 19,27 Sandwich, Chilmark(M.V.) R.Pease,E.Chalif# 1,1 Short-billed Marsh Wren: 1,22-25 Concord.P.I. 1,1 P.Regan,S.Garrett# & v.o. Gray Catbird: thr. Manomet, Plymouth 220(banded), 64(banded) M.B.O.Staff American Robin: thr. Manomet 55(banded) M.B.O.Staff Wood Thrush: Manomet, S. Dartmouth 4(banded),5(banded) M.B.O.Staff,P.Regan# thr. Hermit Thrush: 21 Sandwich 1 R.Pease Swainson's Thrush: thr. Manomet 2(banded) M.B.O.Staff Tewksbury 27 2 M.Wilson Eastern Bluebird: 4,9 thr. W.Roxbury,Sherborn F.Atwood, E.Taylor Blue-gray Gnatcatcher: Manomet, Chilmark(M.V.) 24.25 1,1 M.B.O.Staff, A.Keith 27,30 Duxbury, P.I. 1,1 M.B.O.Staff, H.Weissberg Ruby-crowned Kinglet: 24,25 Tuckernuck I., P.I. 1,1 M.LaFarge, R.Stymeist Loggerhead Shrike: 19,28 P.I., Edgartown(M.V.) 1,1 S&J Harrison, A. Keith# White-eyed Vireo: thr. Manomet 6(banded) M.B.O.Staff 26,27 Sandwich, Chilmark(M.V.) 1,1 R.Pease, E.Chalif#

Yellow-throated Vireo: 3,1 A.Agush#,H.Wiggin# 5:25 Boxford, P.I. Solitary Vireo: 1(banded) M.B.O.Staff Manomet thr. Philadelphia Vireo: P.I., Sandwich M.McClellan,R.Pease 21,26 2,1 P.I., Chappaquiddick I. (M.V.) 1,1 H.Weissberg, A.Keith# 30,31 Black-and-white Warbler: 51(banded),29(banded) thr. Manomet.Plymouth M.B.O.Staff Golden-winged Warbler: 5,20 J.Leverich#,R.Veit W.Newbury, Tuckernuck I. 1,1 Blue-winged Warbler: thr. Manomet.S.Dartmouth 11(banded).23(banded) M.B.O.Staff.H.Atkinson# W.Newbury, Gloucester(E.P.) R.Stymeist#,H.Wiggin# 5.24 2.3 Tennessee Warbler: Manomet, P.I. 1(banded).1 M.B.O.Staff.F.Atwood thr.,30 Nashville Warbler: Manomet 6(banded) M.B.O.Staff thr. Cape May Warbler: 20,26 10.6 W.Harrington#,R.Stymeist Monomoy, P.I. 15 H.Wiggin# 29 Annisquam Black-throated Blue Warbler: 1 24 Gloucester(E.P.) H.Wiggin# Cerulean Warbler: thr.,25 S.Dartmouth, W.Roxbury 1(banded),1 H.Atkinson#,F.Atwood Blackburnian Warbler: 1(banded) M.B.O.Staff thr. Manomet Yellow-throated Warbler: 1 N.Claflin 12 Nentucket Chestnut-sided Warbler: 4(banded),4(banded) M.B.O.Staff,H.Atkinson# Manomet, S. Dartmouth thr. Bay-breasted Warbler: 17(banded) thr. Manomet. M.B.O.Staff W.Petersen#,W.Petersen 20,22 Monomoy, Barnstable 2,1 Blackpoll Warbler: Gloucester(E.P.), Sandwich 1,1 H.Wiggin#, R. Pease 24,27 Pine Warbler: 26 P.I. 1 BBC(H.Weissberg) Prairie Warbler: W.Harrington#,E.Morrier Monomoy, Squantum 1,2 20.23 Ovenbird: 18(banded),15(bandea) M.B.O.Staff Manomet, Plymouth thr. Northern Waterthrush: 16(banded),7(banded) M.B.O.Staff,H.Atkinson# thr. Manomet, S. Dartmouth Kentucky Warbler: B.Nikula, V.Laux 24 Chatham (Morris I.) 1 Mourning Warbler: thr. Manomet 1(banded) M.B.O.Staff Common Yellowthroat: Manomet, Plymouth 54(banded).28(banded) M.B.O.Staff thr. Yellow-breasted Chat: 4(banded) M.B.O.Staff thr. Manomet Wilson's Warbler: thr.,26 Manomet, W. Roxbury 2(banded).2 M.B.O.Staff.F.Atwood Canada Warbler: Manomet, Gloucester(E.P.) 10(banded),3 M.B.O.Staff, H.Wiggin# thr.,24 American Redstart: Manomet, S. Dartmouth 32(banded), 10(banded) M.B.O. Staff, H. Atkinson# thr. Bobolink: Annisquam, Martha's Vineyard 29.31 10,500 H.Wiggin, A.Keith# Yellow-headed Blackbird: Truro, W. Tisbury (M.V.) W.Petersen# & v.o., E.Chalif#&v.o. 14-19,20 1,1 Orchard Oriole: thr. Woods Hole 2 P.Garrey Northern Oriole: 16(banded),8(banded) M.B.O.Staff Manomet, Plymouth thr. 21-28 29-34 F.Atwood W.Roxbury 30 25-27 S.Dartmouth P.Regan

Cardinal:			
25	P.I. (Hellcat)	1	R.Stymeist
Rose-breaste	d Grosbeak:		
thr.	W.Roxbury	15-20	F.Atwood.v.o.
Indigo Bunti	ng:		
thr.	Manomet	2(banded)	M.B.O.Staff
House Finch:			
thr.,26	Wollaston, P.I.	11,1	R.Emery, BBC(H.Weissberg)
Red Crossbil			
23	Chilmark(M.V.)	2+	E.Chalif
Rufous-sided	Towhee:		
thr.	Manomet, Plymouth	19(banded),7(banded)	M.B.O.Staff
Grasshopper			
8	Falmouth(CWA)	13	R.Pease
Henslow's Sp	arrow:		
1-15	Leicester(Worc.Airport	:) 1-5(max.4th)	R.Stymeist#,v.o.
Sharp-tailed			
25	Newburyport, Westport	20+,3	J.Berry, BBC(S.Grinley)
Seaside Spar	row:		•
thr.	Manomet	l(banded)	M.B.O.Staff
4,7	Chatham, S. Dartmouth	1,7	H.D'Entremont, R.Emery#
Vesper Sparr			
18,24	P.I.,Wellfleet	1,6	BBC(I.Giriunas), W.Petersen#
Lark Sparrow	:		
27	Monomoy	1	J.Harris, v.o.
Dark-eyed Ju	nco:		
22	Weston	1	L.Robinson
Clay-colored	Sparrow:		
31	Monomoy	1	W.Bailey, R.Pease
Song Sparrow	•		
thr.	Manomet	22(banded)	M.B.O.Staff

S.P.G.

## THAYER'S GULL (Larus thayeri)

## J. T. Leverich, Cambridge

Now that Thayer's Gull has been officially added to the A. O. U. <u>Check-list</u>, Massachusetts birders will have even more incentive to watch for it. Most Thayer's Gulls winter on the Pacific coast. The species is thus decidedly rare in this state, but it may prove to be of regular occurrence. However, field identification is definitely difficult! Only those birders completely familiar with our more common winter gulls should attempt to call it. Field reports submitted to BIRD OBSERVER should be fully documented, detailing exactly which field-marks were seen, what the visibility conditions were, whether comparison birds from closely related species were present, etc.

Diagnostic field marks of the adult Thayer's Gull are as follows:

1. GENERAL PATTERN: a white-bodied gray-winged gull, rather like an intermediate between a Herring Gull and the darker race of the Iceland Gull (i.e., the subspecies referred to as Kumlien's Gull).

2. SIZE: slightly larger than Kumlien's Gull, slightly smaller than the Herring Gull.

3. EYE-RING: reddish-purple, as in all races of the Iceland Gull.

4. EYE (IRIS): dark brown, usually mottled in appearance.

5. MANTLE: light gray -- the same shade as in the Herring Gull, that is, definitely darker than the pearly gray of the Iceland and Glaucous Gulls.

6. WING-TIPS: black with white spots ("mirrors"). Compared with the Herring Gull, Thayer's usually shows less black in the wing-tips, and its mirrors are correspondingly larger. WARNING! There is much individual and geographic variation in both Thayer's Gull and Kumlien's Gull. Many Kumlien's Gulls and all individuals of the eastern (Greenland) subspecies of the Iceland Gull have clear yellow irises. Other Kumlien's, however, have considerable brown mottling of the iris. These same individuals have the darkest wingtips (very dark gray, but never black). Such birds are <u>identical</u> to the lightest individuals of <u>Larus thayeri</u>, except for mantle coloration. Personally, I would not want to identify a "confusing" individual, displaying the above pattern, unless the bird were in hand, so that various confirmatory quantitative measurements could be made. As a rule of thumb, Thayer's Gull should not be called UNLESS THERE IS BLACK IN THE WING-TIPS.

Past reports of Thayer's Gull in Massachusetts are concentrated in or near the month of February, when the population of white-winged gulls reaches its peak. The specific localities mentioned were: the north end of Plum Island; Gloucester Harbor, especially near the sea wall at Eastern Point; and Brace's Cove, Gloucester. REFERENCE: Neal G. Smith, <u>Evolution of Some Arctic Gulls (Larus)</u>: <u>An Experimental Study of Isolating Mechanisms</u>, Ornithological Monographs No. 4, 1966, which is available from the A. O. U. for \$2.50.

This volume, by the way, is surely one of the finest speciation studies ever written. The monograph may be viewed as a proof that Thayer's Gull forms a separate and distinct species. In support of this thesis, Smith spent three summers in the Canadian Arctic studying a complex of four closely related gull species (Herring, Kumlien's, Thayer's and Gleucous). He marshalls an imposing array of ecological, morphological and behavioral differences, each of which may (and probably does) serve as a mechanism for insuring the reproductive isolation of these four species.

The most celebrated section of the monograph reports a fascinating series of experiments in which the eye-ring color of various birds was altered to that of a different species. (Smith also "altered" the iris color of certain dark-eyed birds by painting huge new "eye-rings" on the head, so that part of the white head-feathering might serve as a (fake) light iris.) The experiments were performed on both sexes separately and were repeated at different stages of the reproductive cycle. Smith's conclusions are most interesting:

1. It is the female gull that initiates the pair-bond, and she invariably chooses a mate with an eye-head pattern identical to her own. In this first stage of the breeding cycle, if the males are "altered," then the female wil pair-bond with the wrong species. An "altered" female, however, will correctly identify (unaltered) conspecific males. This and other evidence suggests to Smith that the female is fixated on the eye-head pattern of her own parents, rather than being in any sense "conscious" of her own appearance. Males consent to any pair-bond situation, whether appropriate or not.

2. Once the pair-bond is formed, no alteration of the male's appearance will cause the female to reject him.

However, if the male is bonded to a female with an (apparently) incorrect eye-head pattern, then he will fail to reach breeding readiness. His gonads will not develop, and he will remain unable to copulate. Such a male, persistently unresponsive to the female's mating overtures, will after a few days be discarded, and the pair-bond will be ruptured.

3. Alteration of either sex when performed after the pair-bond has been cemented by several successful copulations has no effect on the pair.

Smith's monograph is a strictly scientific contribution to the professional literature. The author is careful, however, to explain all technical jargon as it is introduced. Statistical tables and charts abound, and mathematical uninitiates can easily subsist on very thorough verbal explanations. This study contains <u>the only reliable set of</u> <u>illustrations of Thayer's Gull</u> that I have been able to locate.<sup>#</sup>

If you have never tried reading any technical ornithological literature, Smith's monograph is a fine piece to start with.

\* There is also a drawing of <u>Larus thayeri</u> on page 95 of Fisher, James, and Roger Tory Peterson, <u>World</u> of <u>Birds</u>, Crescent Books, revised edition. - Ed.

## Abbreviations

	-1.1.
ad.	adult
imm.	immature
m.	male
f.	female
max.	maximum
thr.	throughout
v.o.	various observers
#	additional observers
ABC	Allen Bird Club
BBC	Brookline Bird Club
CCBC	Cape Cod Bird Club
FBC	Forbush Bird Club
FCBC	Felix Cutler Bird Club
NVBC	Nashoba Valley Bird Club
PBC.	Paskamansett Bird Club
SSBC	South Shore Bird Club
CWA	Crane Wildlife Area
GMNWB	Great Meadows Nat'l. Wilflife Refuge
IRWS	Ipswich River Wildlife Sanctuary
MBO	Manomet Bird Observatory
MNWS	Marblehead Neck Wildlife Sanctuary
WBWS	Wellfleet Bay Wildlife Sanctuary
A.A.	Arnold Arboretum
A.P.	Andrews Point
E.P.	Eastern Point
F.H.	Fort Hill, Eastham
F.M.	Fowl Meadow, Milton
Mt.A	Mt. Auburn Cemetery
M.V.	Martha's Vineyard
P.I.	Plum Island

THE 74TH CHRISTMAS COUNT

Interest in the annual bird census (this year scheduled nationally for dates between Saturday, December 15th and Tuesday, January 1st) continues to grow each year. To many birders the Christmas Count is as traditional as the Christmas Tree or Plum Pudding.

Last year's census was no exception, and a total of 1,013 counts were published in <u>American Birds</u>. All but seven were from the United States and Canada, the others being from Mexico (2), Guatemala, British Honduras, El Salvador, Puerto Rico, and the U.S. Virgin Islands. In all, over 15,000 participants recorded 71,183,807 individuals representing 911 species!

In Massachusetts there were counts in Athol, Buzzards Bay, Cape Cod, Central Berkshire, Concord, Marshfield, Martha's Vineyard, Millis, Nantucket, New Bedford, Newburyport, Northampton, Northern Berkshire, Quincy, Springfield, Taunton, Westminster and Worcester. For the second year, the new Greater Boston Count will replace the Belmont and Jamaica Plain counts of previous years.

If you would like to join the Boston Count (Sunday, December 16th) or any other one, contact the undersigned at 54 Banks St., Cambridge, Mass. 02138.

Robert H. Stymeist



RICA ... GUATEMALA ... INDIA ... SOUTHEAST ASIA ... HONG KONG, TAIWAN AND JAPAN ... TRINIDAD ... WASHINGTON ... JAMAICA ... GALAPAGOS ... ECUADOR AND PERU ... ALASKA ... ARGENTINA ... MEXICO ... DRY TORTUGAS BOAT TRIP

We take pride in the recommendations of veterans of our previous tours. For example, the following from Dr. Robert Pittell of Ft. Lauderdale, Florida:

"I've been on several organized tours in the past and yours far and away surpassed the others for showing the birds and showing them well. Virtually all the birds were seen by all the group and really seen to one's satisfaction for good lifelist identification. The leadership was superb and the group was most congenial and eager."

If you have an enthusiastic interest in birds, there is no better way to see them than on one of our tours.

For information write -

BIRD BONANZAS, INC. 6630 Biscayne Boulevard Miami, Florida 33138

"We Show People Birds"

BIRD OBSERVER

P.O. Box 507 Newton Center Massachusetts 02159



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