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BIRD OBSERVER

OF EASTERN MASSACHUSETTS

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July 31, 1980

To the Editor:

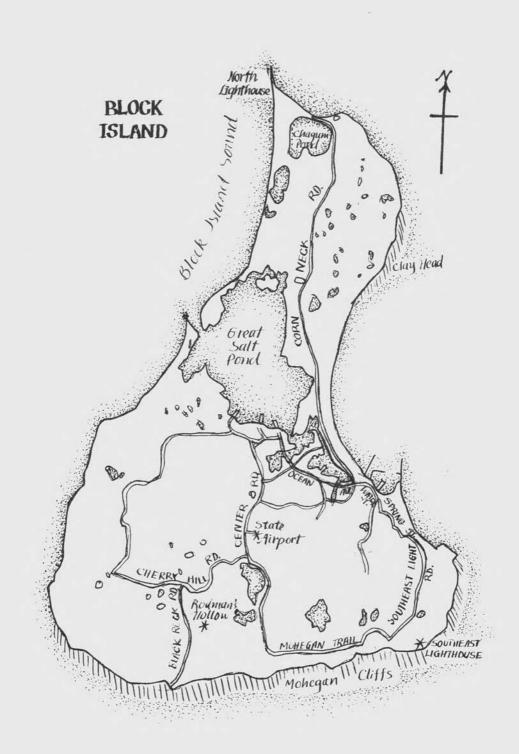
I read with interest the fine article by Blair Nikula on Massachusetts' non-resident terns in your most recent issue. It clearly summarizes the status of these terns to date. However, I would like to point out that the spring maxima for Black Tern occurred on 15 May 1967 when 25 were noted in Littleton and 30 in North Hadley. As the article accurately states, inland Black Terns are noted primarily in spring when heavy rains force them down.

In no way is this comment meant to detract from Blair Nikula's excellent article.

Richard A. Forster Natural History Services Massachusetts Audubon Society

The new Peterson field guide is now available from Herman D'Entremont, Post Office Box 207, Newto, MA 02159. The cost is \$11.25 for hard cover (\$15.00 retail) or \$7.45 for soft cover (\$9.95 retail), plus \$.75 for postage and handling. Mass. residents add 5% sales tax.

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BLOCK ISLAND

by Robert P. Fox, Hingham

My idea of a perfect getaway is to spend the first weekend of October on Block Island, Rhode Island, where fall bird migration is at its best. On the past 14 annual Rhode Island Audubon Block Island Weekends (held on this first October weekend) the leaders have averaged 140 species. The total list for this weekend is 240 species, which includes 7 species of woodpeckers, 11 flycatchers (including Olive-sided and Say's Phoebe), 5 wrens (including Bewick's), 6 vireos, 29 warblers (including Connecticut, Mourning, Worm-eating, and Prothonotary), 3 tanagers, and 15 sparrows (including Grasshopper and Lark).

Many species seen infrequently on the New England mainland throughout the year are regular and numerous on Block Island during early October. Landbirds, which normally breed in the coniferous forests of northern New England and Canada, are not only regular, but also easily seen and studied because of the bushes and low trees on the island. Birders have had the unforgettable experience of seeing 5 kinds of warblers in one bush and 12 species of sparrows on a small lawn!

Orange-crowned, Mourning, and Connecticut Warblers are seen on the majority of trips, as are Winter Wrens, Gray-cheeked Thrushes, Philadelphia Vireos, and Lincoln's Sparrows. Rare landbirds seen on Block Island in October include Red-headed Woodpecker, Western Kingbird, Carolina Wren, Yellowbreasted Chat, Blue Grosbeak, Dickcissel, and Clay-colored Sparrow. Among shorebirds, Louisiana Herons, Yellow-crowned Night Herons, American Oystercatchers, and American Avocets can be seen.

In addition, Block Island is an excellent place to see Peregrine Falcons, which have been observed here every year during the Audubon Weekend. Peregrines are usually seen circling high over town or the moorlands at Rodman's Hollow, dashing over a ridge at the north end of the island, or coursing below the clay cliffs at Southeast Light. Other falcons, as well as accipiters, are also commonly seen on the island as they migrate southwestward along the New England coast. Off the coast, loons, cormorants, geese, scoters and mergansers follow the same southwestward route, cutting between Block Island and the mainland on their way into Long Island Sound.

Field trip leaders are often asked why so many southern and western stragglers occur with such frequency on Block Island during October. One explanation is that some birds, upon leaving their breeding grounds in the Ohio Valley or southern Great Plains, instead of heading south, drift northeastward on surges of warm, southwest winds. They are finally stopped by the ocean and pileup on bits of land such as Block Island. This posthatching drift may also explain the presence of migrant butterflies (such as the Buckeye) and the small Carolina mantises.

Nearly all the birds on Block Island in October are migrants. There are relatively few year-round residents, and even birds common on the mainland are scarce here. For example, Tufted Titmouse has not yet been recorded, and Black-capped Chickadee is not seen every year. However, with good conditions for migration - the passage of a cold front with clear skies, light northwest winds, and a 10° drop in temperature - thousands of birds appear. During fall migration most species of birds move southwestward parallel to the coast some 20 miles inland. With strong northwest tailwinds, less fortunate individuals move out over the ocean and become disoriented. They head back to shore in the early morning, when radar has shown from 10 to 150 times as many birds over Boston heading southwestward as over Cape Cod heading southeastward. Species known to use this southwest route often occur in spectacular numbers on Block Island and can even be seen in the act of migrating. At Southeast Light at dawn these birds can be seen coming off the ocean, over the cliffs and into the shrubbery, and often streaming north along island roads. In the early morning at the north point, one can see Bluejays, Bobolinks, Rusty Blackbirds, warblers, and others circling upward for several hundred feet before heading northwest on a short low-level flight to the Rhode Island shore, where they rejoin the rest of the "pack."

Probably the most fascinating migration route to the Caribbean and South America is over the ocean. On Block Island one can be part of the sendoff for this notable endurance trek, which is dominated almost totally by warblers. Radar has shown that on peak nights up to 12 million birds head southeastward from Cape Cod. Typically, the birds leave from a staging area somewhat inland in early evening, rise to 6,500 feet, and with strong tail winds cross Bermuda some 18 hours later. Then, using the light trade winds, they take another 48 hours to reach the Lesser Antilles after having climbed to 10,000 to 21,000 feet. Heading down the Lesser Antilles and being blown toward the South American coast, the birds fly for 18 more hours and drop in altitude until they are at 2,500 feet over Tobago. Finally, they reach coastal South America.

Some of these over-ocean migrants stop at or return to Block Island because of unfavorable weather, and are seen in numbers while they await more favorable conditions before heading southeast. Occasionally, species which normally take the southwest route head out over the ocean, often at low elevations, and come to rest on board ships or even reach Bermuda. None of these species, such as Barn Swallow, Red-eyed Vireo, Indigo Bunting, and Savannah Sparrow, is seen farther along the route.

A trip to Block Island, even in the off-season, should be planned well ahead. Birders and many others take advantage of the opportunities to visit the island at this time and accommodations are limited. The Interstate Navigation Company, Box 482, New London, CT 06320, runs the ferry and should be contacted for reservations and the latest schedules. I prefer to take a 11:00 a.m. or 6:30 p.m. ferry from Galilee, Rhode Island, on a Friday, returning Sunday at either 11:00 a.m. or 3:30 p.m. The cost one way is \$4.00. If you take a car, the fare is \$23.00 round-trip for the car, but be sure you can get the car off the island when you plan to leave since car space is limited. For those who prefer to fly, there is a field on the island. I have taken a small charter from the Westerly, R.I., Airport.

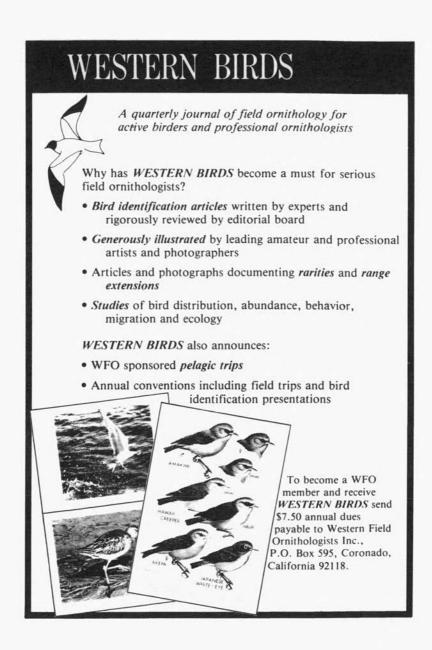
Once on the island, you can hire a taxi; many are available at reasonable rates. The hotels do have van transportation, but this has to be worked out with your hotel, cspecially if you want them to meet a boat. There is also a rental car office on the island. For birding trips, bicycles are the best. They can be rented near the boat landing area or from the Surf Hotel. From the boat landing the most interesting birding areas - North End and Southeast Light - can be reached by walking for an hour or more, birding en route.

The three hotels most used by birders are the Surf Hotel, just 500 yards from the boat landing; the Narragansett Inn, several miles away but located near the alternate landing site; and the 1661 Inn. The management of these inns can be contacted by mail in care of Block Island, R.I.02847. All have plain, good quality rooms, fine island food, similar prices, and a loyal following.

Each fall the Audubon Society of Rhode Island, 40 Bowen Street, Providence, R.I., telephone: (401) 521-1670, runs very successful trips to the island. A number of bird clubs in the northeast also sponsor group trips.

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FIELD IDENTIFICATION OF THE LESSER BLACK-BACKED GULL

by Richard R. Veit-

During the past 30 years, the Lesser Black-backed Gull (<u>Larus fuscus</u>) has become a regular annual vagrant to the east coast of the United States, ranging from Florida and the Caribbean north to the New York City area (AOU 1975; Bull 1964), with a number of recent records from the Great Lakes. Comparatively few records exist from the coast north of New York, and all Massachusetts records are relatively recent. The species was first recorded in Massachusetts on September 14, 1971 (Petersen, 1973). Since that time, a minimum of 15 sight records has accumulated for eastern Massachusetts (the majority from Cape Cod and the islands, especially Nantucket), and at least 11 of these have occurred during the period 1977 to 1980. In anticipation of increasing occurrences of this species in New England, it seems appropriate to describe the salient points for its field identification.

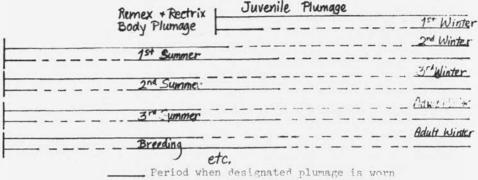
Identification of adults, or even birds in third-winter plumage, is comparatively straightforward for the competent observer familiar with our local larids. However, most North American observers would not attempt identification of individuals in first- or second-winter plumage, quite understandably, since these plumages (particularly the former) are not accurately described or illustrated in any of the more popular field guides. Indeed, some authors go so far as to suggest that immature Lesser Blackbacked Gulls are indistinguishable in the field from the Herring Gull (Larus argentatus). My recent experience in western Europe has convinced me that this is not the case. As described below, the Lesser Black-backed Gull is a species which the careful and patient field observer can readily distinguish in any plumage from its congeners, particularly L. argentatus. Comparison with the Herring Gull is emphasized in the below descriptions of the Lesser Black-backed Gull's general structural features and plumages. The size difference between the Lesser Black-backed Gull and the Great Black-backed Gull is ordinarily large enough to preclude confusion of these species, provided that an adequate view is obtained.

General Structural Features

In comparison to the Herring Gull, the build of the Lesser Black-backed Gull is noticeably slighter overall; the bill is more slender and the head more smoothly rounded, yielding a rather "dove-like" appearance, not unlike the impression conveyed by the Iceland Gull (Larus glaucoides) or, more obviously, by the Mew Gull (Larus canus). In addition, the folded wings of a standing bird attenuate gradually to a fine point, so that the posterior profile suggests the "pencil-point" look of the White-rumped Sandpiper (Calidris fusicollis). Although individual variation will in some instances obscure these generalized structural differences, they are for the most part not crucial to the conclusive identification of the Lesser Black-backed Gull.

Plumages

Before describing the plumages of this species, it may be helpful to outline its pattern of molt, which is similar to that exhibited by most other large larids (see Figure 1). The first set of contour feathers acquired



___ Period of molt

Figure 1. Molt Pattern of Large Gulls

following the downy stage constitutes the juvenile plumage. The remiges and rectrices grown at this time are retained for one full year. During the period September - November of the bird's first fall, a partial molt of the body plumage occurs, resulting in the first-winter plumage. A second partial molt of the body plumage during December - April yields the first-summer plumage. From this point on, all of the feathers are molted annually during the period June - November in a process referred to as the post-nuptial molt. The resulting fresh plumage is termed second-winter, third-winter, or adult winter, depending on the age of the bird. A second, partial molt of the body plumage every year during the period December - April (the pre-nuptial molt) results in the secondsummer, third-summer, or breeding plumage. It is important to realize that molting is frequently a continuous process, and that the above somewhat arbitrary classification is adopted primarily as a convenience. Therefore, "intermediate" plumages are frequently observed, are to be expected, and should not engender needless frustration.

Juvenile and First-Winter Plumages

The salient point of distinction between these plumages of the Lesser Black-backed Gull and those of the Herring Gull is the coloration of the inner primaries and greater secondary coverts. In the Herring Gull, the innermost four or five primaries are pale-buff or creamy, forming a conspicuous contrast with the solidly dusky-brown outer primaries. This contrast is such that a translucent "window" appears at the inner "hand" of the bird. The greater secondary coverts are also pale-buff, lightly mottled with dusky brown, so that they form a conspicuous contrast with the uniformly ducky secondaries.

In the Lesser Brack-backed Gull, all of the primaries and the greater secondary coverts are solidly dark-chocolate-brown. The net effect conveyed is a broad, dark, uninterrupted trailing edge to the wing. This diagnostic difference is obvious in flight, as clearly illustrated in the accompanying figures (Figures 2 and 3, which are excerpted from Lars



Figure 2. Lesser Black-backed Gull (juvenile)



Figure 3. Herring Gull (first winter)

Photographs reprinted with permission from <u>Birds of Sea and Coast</u> by L. Jonsson.

Jonsson's <u>Birds of Sea and Coast</u> and are reprinted by permission). The Herring Gull illustrated here is of the western European subspecies, <u>L.a.</u> <u>argentatus</u>, which is much more pale-bodied than the North American <u>L.a.</u> <u>smithsonianus</u>. It possesses nevertheless the same primary greater-secondary-covert pattern as <u>L.a.smithsonianus</u>.

The coloration of the head and underparts of juvenile/first-winter Lesser Black-backed Gulls is variable with the stage of molt, but is generally similar to that of the Herring Gull, although some individuals that I have seen displayed a conspicuous dark nuchal collar set off from the otherwise whitish head - a feature that I have never noticed on young Herring Gulls. In addition, typical individuals show conspicuous dark eye spots caused by blackish feathering in that area. The bill is blackish-brown with a pale bone-white tip, and the legs either flesh or flesh-pink. The subterminal band on the tail is usually narrower and more sharply delineated than that of the Herring Gull. This character is frequently of some value as a field mark.

First-Summer Plumage

Since the juvenile remiges and rectrices are retained for the duration of the first-summer plumage, their coloration remains the most distinctive feature for identification in this plumage as well. The bill may begin to acquire a flesh-colored base in this plumage.

Second-Winter Plumage

With the onset of this plumage, which follows the first post-nuptial molt. Lesser Black-backed Gulls acquire the characteristic contrast between the mantle and underparts which renders them quite distinct from any plumage of the Herring Gull, and schematically similar to the first-winter plumage of the Great Black-backed Gull (Larus marinus). The head and underparts are whitish and irregularly marked with brown-gray spots. streaks, and blotches, particularly heavily about the nape and flanks. The newly molted mantle feathers (back as well as upper wing coverts) have slate-gray centers and broad brownish margins; the relative amounts of gray and brown vary so much that the bird may appear slate-mantled, brown-mantled, or slate scaled with brown. "The new remiges are uniformly blackish, with no white markings in the primaries, while the fresh tail has, on the average, a narrower and more sharply delineated terminal band than that of the previous plumage. The legs remain flesh-pink or neutraltoned, while the bill usually acquires a fleshy base, which is sharply demarcated from the dark tip, although it may remain entirely dark until the third winter.

Second-Summer Plumage

The pre-nuptial molt of the body plumage renders the head and underparts whiter. A few solidly slate-gray feathers appear on the back, and some yellow coloration appears in the bill and legs, especially on the back, as in young Snowy Egrets.

Third-Winter Plumage

The remiges acquired with the post-nuptial molt are coal-black, with no

white markings in the primaries, while the fresh rectrices are pure white. The new mantle feathers are solidly slate-gray with the exception of the secondary coverts, which are narrowly margined with brown. The bill becomes largely yellow, frequently with a blackish smudge at the angle of the gonys, posterior to the red spot typical of all the larger larids. The legs assume a straw-yellow color. A bird molting from second-summer to third-winter plumage is clearly described by Petersen (1973).

Third-Summer Plumage

This plumage does not differ appreciably from the third-winter plumage, except for a continued intensification of the soft-part colors.

Fourth-Winter (=Adult Winter) and Breeding Plumages

The new primaries are coal-black; a single white spot is formed by the confluence of white spots on the tenth and ninth primaries (cf. double white spots of Herring Gull or Great Black-backed Gull). The tail and underparts are pure-white and the mantle is solidly slate-gray. The head and nape are much more profusely marked with brownish spots and streaks than in the Herring Gull in adult winter plumage, and the bill tends toward orangeyellow rather than straw-yellow. The leg color varies from a pale flesh through lemon to vivid orange; the intensity of the coloration of the soft parts is highest during the breeding season. The head and nape of breeding adults are pure-white.

Probable Origin of North American Vagrants

To date, virtually all subspecifically identified records from North America are assignable to L.f. graelsii, the breeding form of the British Isles and Iceland, which in winter regularly migrates as far south as tropical Africa, including Senegal, Ghana, Nigeria and the mouth of the Congo River (AOU, 1975). This migratory pattern, coupled with the pronounced southerly distribution of coastal North American records, strongly suggests that Lesser Black-backed Gulls observed here could have been drifted across the tropical Atlantic by the easterly trade winds and associated cyclonic activity, as analogously hypothesized for North American vagrant Curlew Sandpipers (Calidris ferruginea) and Ruffs (Philomachus pugnax) (Eisenmann, 1960). Alternatively, these birds could conceivably be continuing their typical autumnal east-west migratory route across the North Atlantic, as suggested for Palearctic waders by Nisbet (1959). This latter theory might better account for the presence of Lesser Black-backed Gulls in the Great Lakes region and off Labrador (Powers, 1979).

Acknowledgements

This manuscript was considerably improved through many helpful comments from P. A. Buckley, R. A. Forster, C. W. Leahy, S. A. Perkins, and W. R. Petersen. Special thanks to P. J. Grant for much enlightening discussion in the field and to W. R. Petersen for thorough editing of the manuscript.

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One can subscribe for a year (6 issues) by sending \$7.50 to Bird Watcher's Digest, Box 110-M, Marietta, OH 45750 (add \$2.00 for Canada and foreign). Notes on the Identification of Selasphorus and Archilochus Hummingbirds

by Bruce A. Sorrie, Marshfield

With the recent documentation of vagrant hummingbirds in the East (Conway and Drennan, 1979), hummingbird-watching has taken on a new flair; no longer should we be content to think only in terms of Ruby-throateds when afield. No less than five western species have been reliably reported east of the Mississippi River: Rufous, Allen's (!), Broad-tailed, Buffbellied, and Black-chinned. Two of these have occurred in Massachusetts: Rufous (mid-April, 1978; Am.Birds: 32: 1139) and Black-chinned (late November-early December, 1979; <u>B.O.E.M.</u> 8: 33-34). Note that the record quoted by Conway and Drennan of Buff-bellied Humming aird in Massachusetts has been rescinded (Am.Birds 33: 322).

As tantalizing as all this is, the realities of hummingbird identification are (1) that not all birds are adult males and (2) that many individuals will get by without even being assigned to genus. How many times have we seen, however poorly, a hummingbird zip past and have automatically called it a Ruby-throated? And, similarly, I have to believe that out of all the non-adult male Rufous Hummingbird records listed by Conway and Drennan, at least <u>one</u> of them would have proved to be an Allen's or a Broad-tailed if identified in the hand.

In this paper I wish to increase awareness of the differences between some closely related species so that future documentation can be made easier and more complete. Two generally available publications, Stiles (1971) and Phillips, Marshall, and Monson (1964), continue where field guides stop and are highly recommended for determining species in the field and/or in the hand.

When to Look:

Generally speaking, fall is the most productive--the flowers linger and so do the birds. Feeder-watchers in the far south may claim winter as the vagrant season; however, this almost surely results when birds that arrive in the area weeks earlier are forced to feeders by weather and lack of food. It must be pointed out that several western hummingbirds, e.g., Allen's, Costa's, and Rufous, migrate very early so that birds are already moving southward during the summer (Phillips, 1975; Sorrie, MS). This is particularly true of adult males, which take no active part in rearing of the young. In California, for example, adult male Rufous arrive in the Sierran meadows as early as late June, peaking in July (Sorrie, MS). It is perhaps noteworthy that the records of Rufous for Nova Scotia, Maine, and New Hampshire all occur during the summer (Conway and Drennan, op. cit.). Spring records, at least those prior to May, will be hard to find in New England due to the lack of appropriate flowers.

Identification:

Adult males present no field problem if seen well, but females and immatures are very difficult to separate into species, given present knowledge. In the hand, however, identification is straightforward and not particularly difficult, as well as being much more reliable. Therefore, unless the bird in question is found dead, every effort should be made to have a licensed bander capture it for measurements and photographs. Two critical tail feathers (<u>Selasphorus</u>) or one inner primary (<u>Archilochus</u>) <u>must</u> be pulled and saved with the mensural data as a voucher. Measurements should include wing length, tail length, and length of exposed culmen. Good photographs of birds at feeders, etc., are an immense help when capture is impossible.

(A) <u>Selasphorus</u>. Fully adult males present no problems. The Rufous Hummingbird (S. rufus) has a wholly rufous back although there may be some scattered green feathers; Allen's (S. sasin) is wholly green. Both species show rufous extensively on the rumb and upper tail coverts. In flight both species produce a somewhat metallic buzzy sound with their wings--not a low hum as made by most other hummingbirds and female Selasphorus but a buzz.

In the hand, rectrix #2 (next to the central tail feather) of <u>S. rufus</u> shows a distinct notch or cut-out on the inner web near the tip plus a sinuate margin on the outer web. Rectrix #2 of <u>S. sasin</u> shows only a sinuate margin on the inner web or none at all (fig. 1).

Caution: I have seen at least ten specimens of <u>S. rufus</u> out of hundreds of museum skins plus one live bird in the hand whose backs were twothirds to wholly green These breeding-season males all showed the characteristic notching to rectrix #2. Some of these may have been males in their first breeding season which did not molt new adult back feathers. The possibility of hybridization between such closely related species should not be dismissed although it has not been described in the literature. The 1978 Massachusetts' Rufous Hummingbird had molted about fifty percent of the back and required close scrutiny of the photos to be sure of the species.

Females and immatures of both sexes are at present not reliably separable in the field as to species; they simply should be called "Selasphorus sp." In the hand, rectrices of <u>S. rufus</u> are wider, feather for feather, than those of <u>S. sasin</u>. Once sex and age have been determined (the key in Stiles, 1972, is adequate), rectrices #2 and #5 <u>must</u> be plucked from one side, measured, and saved. I suggest saving #2 rather than #1 because there is less variation in width than in #1 and because it, too, can be used to determine sex. Except for a limited amount of overlap in immature females, there is essentially no overlap in the width of rectrix #5, nor #2, for any age/sex class (Sorrie, MS).

A word should be said about the Broad-tailed Hummingbird, <u>E. platycercus</u>, a species no less likely here than the Allen's Hummingbird. It is decidedly larger than either <u>S. rufus</u> or <u>S. sasin</u>. Adult males have a magente or rose-red gorget, not red (Ruby-throated) nor coppery-red (Allen's and Rufous), and make a shrill, buzzy wing noise when flying, louder and more metallic in quality than the other two <u>Selasphorus</u> species. In all ages and sexes, the Broad-tailed has less rufous on the underparts and tail than the others, but this requires careful observation in the field. In the hand, the longer wing and the enormously broad and long tail feathers will easily separate it from the others (see illustration in Stiles, 1971).

(B) <u>Archilochus</u>. There should be no problem assigning members of <u>Archilochus and Selasphorus</u> to the correct genus. Adult males and some pale-flanked female and immature Broad-tailed Hummingbirds may approach

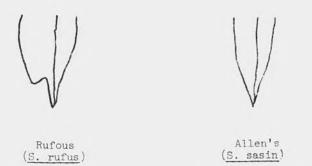
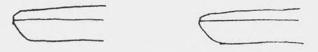
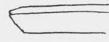


Figure 1. Shape of right rectrix #2 in Rufous and Allen's Hummingbirds.



Black-chinned (A. alexandri)





Ruby-throated (A. colubris)

Figure 2. Shape of left primary #6 in Black-chinned and Ruby-throated Hummingbirds, showing variation.

in resemblance various ages and sexes of the two <u>Archilochus</u>, but the latter are distinguished by the distinctly shortened central tail feathers only slightly, or not at all, shorter in <u>Selasphorus</u>. This may be useful in the field, but a better mark for adult male Broad-taileds is the wing noise. Females and immature males will show orange basally on the lateral tail feathers.

Adult male <u>Archilochus</u> are adequately pictured in field guides especially Peterson's <u>A Field Guide to Western Birds</u>. As Peterson cautions, be <u>sure</u> to see the violet gorget band when identifying a Black-chinned. Females and immatures are at present not reliably separable to species in the field. In the hand, there is apparently no overlap in the culmen length of immature males and little overlap in females, A. alexandri being longer; this is probably the best distinguishing mark. The shape of the tips of the inner primaries, #1 to #6, is also diagnostic as shown by Phillips (1975). In A. alexandri the tips are bluntly pointed with a relatively narrow outer web (Fig. 2). This fact was discovered independently by the writer while researching identification criteria for the 1979 Massachusetts specimen of the Black-chinned Hummingbird. It is applicable to both sexes.

Female and immature Costa's Hummingbirds (Calypte costae) look very much like Archilochus but are a paler sandy green above and almost pure white below. Stiles (1971) offers several good points of separation.

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THE LANGUAGE OF FLOWERS

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THE YEOMAN GROUP

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HAWK WATCHING AND BIRDS OF PREY: TWO REVIEWS

by Alden Clayton, Concord

<u>A Guide to Hawk Watching in North America</u>, Donald S. Heintzelman, University Park, Keystone Books, The Pennsylvania State University Press, 1979, 284 pp., illus. **\$6**.95.

Hawks and Owls of North America, Donald S. Heintzelman, New York. Universe Books, 1979, 195 pp., illus. \$18.50.

Throughout history birds of prey have fascinated mankind. In the ancient world raptors were symbols of divinity or earthly power - Horus, the falcon god of the Egyptians; the Owl of Athena, Goddess of Wisdom; the Golden Eagle borne aloft by the marching legions of Rome. During the Middle Ages the sport of falconry was enjoyed by all classes; but power determined ownership: Peregrines belonged to nobility, and Gyrfalcons were reserved for kings and emperors.

Now, in the late 20th century, an entirely new relationship between hawks and man is emerging - based on the organized study of hawks in their natural environment. Hawk watching is consistent with a new ethic which recognizes the coexistence of wild predators and mankind. It is a fast-growing spectator sport, has a strong element of direct participation, and interjects a serious note of scientific study.

The spectacle of fall hawk migration from a mountain lookout is indeed memorable. With the grand autumn setting as a backdrop, kettles of hundreds - even thousands - of hawks may soar overhead, or individuals may fly swiftly by within a few feet of the observer. But the full satisfaction of hawk watching is gained by learning to identify the birds under varying conditions of light, distance, flight angles, and speed. The unexpected and rare sighting provides the thrill needed for all enduring forms of sport. But hawk watching also has a serious purpose - the organized observation and reporting of information on the species and numbers of migrating hawks contribute significantly to the study of bird populations. The growing popularity of hawk watching may be a result of this unusual combination of satisfactions.

The history of hawk watching in the United States is amazingly brief. It began on Hawk Mountain, Pennsylvania, where the first counts were conducted by Maurice Broun in the 1930's. During the following decades hawk watching spread to a few other local areas, but the watershed for hawk watching on a national scale occurred only 8 years ago. In 1972 the United States and Mexico signed a long-overdue treaty that provided full legal protection for birds of prey and ended a shameful era of gunning. In that same year Don Heintzelman privately published <u>A Guide to Northeastern Hawk Watching</u>; four years later he published <u>A Guide to Eastern Hawk Watching</u>. Interest in hawk watching flourished, and in 1974 the Hawk Migration Association of North America was founded - hawk watching became truly national.

The 1979 Heintzelman guide covers all of North America in a substantially expanded version of his earlier regional publications. The new guide contains, in concise size and format, an enormous amount of information about hawks and their behavior, brief but adequate descriptions of 35 species, and sections on hawk identification and study, types of hawk watching, field equipment, the migration seasons, and the mechanics of hawk flight. Approximately 100 pages of photographs and drawings show each hawk species, perched and in flight, as well as the variety of plumages and flight angles.

For the hawk watcher interested in the geographical distribution of observation sites, the final section is rich with descriptive material. From Cape Canaveral and Santa Ana to northern wilderness points in Alaska, sites are ranked (where information is available) in terms of the number of sightings during fall and spring migration. Habitat and outlooks are described, and instructions about access are provided. The rankings are based on reports from local birders as well as Heintzelman's own experience.

Much information about hawk watching is new, some not even yet disseminated. Mt. Wachusetts, not noted in previous Heintzelman guides and only recently recognized even in Massachusetts as a major observation post for fall migration, is included in the current guide. Also mentioned is Pt. Diablo at the Golden Gate of San Francisco Bay which has only been "discovered" within the past two years, and is just being recognized as probably the single best location on the Pacific coast for autumn hawk watching. (For an Eastern birder it has a special appeal - Cooper's hawks are ranked as common. This reviewer was present on September 19, 1979, when, during a three-hour period, 80 Cooper's and 120 Sharp-shins flew overhead--most at close range!) In the category of yet-to-be-discovered (by Heintzelman) is Napatree Point at the southwest corner of Rhode Island. To indicate its importance - on October 8 and 14, 1979, the following two-day totals were reported: American Kestrel (1,045), Sharp-shinned (885), Merlin (60), Cooper's (11), Osprey (10), Northern Harrier (9), and Peregrine (4).

As an inexpensive, easy-to-read compendium, this excellent guidebook is recommended for both the raptor enthusiast and the neophyte.

Hawks and Owls of North America is intended "for students, birders, ecologists, conservationists, and raptor enthusiasts at less than professional level." In both text and pictures this volume makes little impact in competition with the many excellent books already available on birds of prey. Descriptions of individual species are necessarily brief, since hawk and owl ecology, migrations, endangered species, and conservation are also discussed. The result is a general and rather superficial overview of all topics. The book is overpriced in relation to its content, interest, and uniqueness for knowledgeable birders and raptor enthusiasts.

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Rhode Island Audubon Society Field Notes, October, 1979, Charles Wood, Editor.



by Richard S. Heil and Robert H. Stymeist

March was wet and a bit on the cool and cloudy side. The first month of spring began with two very cold days more characteristic of midwinter. The low of 7° on the first was the coldest "arch reading since 1967. Not until the third did the mercury rise above 32° . The month averaged 36.9° , 1.2° below normal, yet mild days predominated with 17 days above normal and only 12 below normal. The month's high mark was 59° on 'tarch 20. Precipitation totaled 5.37 inches, 1.36 inches above normal. This tied with 1972 as the nineteenth wettest 'arch in 110 years. Snowfall was 3.6 inches, h, 5 under average. The most in any day was 3.0 inches on March 1h. The seasonal total stands at 12.7 inches, 28.8 inches under average and the third least in 90 years of record. "iscellaneous phenomena included a thunderstorm on March 11 and ice glazing on "arch 1h.

April showers were plentiful this year: precipitation totaled 4.36 inches, the most in April since 5.65 inches fell in 1973. "easurable amounts fell on 13 days. The mercury averaged 48.7°; the high of 75° was recorded on A₁ 11 20; the low of 33° came on the first. "trout southwest winds were recorded on April 12, 15, and 20. The final days of the month were cold with the last nine days averaging 5° below normal with raw east and northeast winds. Birders were wondering if the migration would ever get under way.

"ay was on the warm, dry, and sunny side. The temperature averaged 59.4° ; the high mark was 30° on ay 22; the low was $4h^\circ$ on the third. Rainfall totaled only 2.3 inches, 1.17 under normal. Strong south or southwest winds were infrequent, but heavy migration occurred with favorable winds on May 11, 13, and 18. The best day was "ay 13 with a light mist and for according to the watchers at "ount Auburn. R.R.S.

LOONS (PRICOUCH) HEACING

Cormon Loons were migrating in early May with small numbers observed moving on a NE track in the Provincetown-Truro area, apparently bound for the Canadian Maritimes. Additionally, 204 were noted leaving the bay and crossing overland at N. Truro on a NE course May 9. A count of 600 Red-throated Loons moving north past the southeast corner of Nantucket March 23 was typical of spring flights observed there and at Cayheal-Martha's Vineyard in recent years. A breeding plumaged <u>Eared Grebe</u> was present at the Wachusett Reservoir in Clinton, May 19-24. There exists at least one prior in-land record: from Horn Pond, Woburn, October 20-November 13, 1968. Louisiana Herons totaled 16 individuals during April and May, too many to describe individually. This is the highest spring total since the species' expansion into our region and its sub-sequent first breeding record in 1976 (cf. spring totals since 1975: 0, 16, 7 4-5, 3). A Least Bittern was found and captured alive in Scituate on the early date of March 18, probably a result of the big southerly storm of November 17-18. R.S.H.

ormon Loon			
5/3,9	C.Cod Bay, N. "ruro	30, 20+	W.Petersen#, R.Heil
Above m:	igrants on NE track.		
5/10,11	"t.A., Framingham	5, 3 migrating	R.Forster#
5/25	**onomoy	20	W.Petersen
Arctic Loon			
3/23	Gay Head(%.V.)	1	B.Kleiner#
Good de	tails received. Plumage de	scription that of bree	ding bird.
Red-throate	1 Loon:		
3/23	Nant.(Low Beach)	600 migrating N	R.Veit, M.Litchfield
5/3,11	C.Cod Bay, Framingham	10 migr.NE, 1 migr.	W.Petersen#,R.Forster
Red-necked	Grebe:		
3/9,20	Gloucester, Cohasset	30, 11	R.Heil,S.Higginbotham
3/15,23	Nant.(Low Beach)	55, 70+ migr. N	R.Veit, ".Litchfield

Yellow-crowne	ed Night Heron:		
5/2,8	WBWS, Lexington	1, 1	W.Bailey,B. 'unkres#
5/9,14	"illis, Dover	1 ad., 2 imms.	B.Cassie, F.Hamlen
5/16-20	Wellesley	1-2	E.Durkee#
Least Bittern	n.;		
3/18		1 (caught alive)	J.Keating,fide W.Petersen
5/12-18,17	Wayland, Lynnfield	1, 1	R.Forster#,H.Wiggin#
American Bitt			
3/2,16	Quincy, Eastham(F.H.)	1, 1	D.Brown#, D.Reynolds
3/17,23	Nantucket, P.I.	1, 1	".Litchfield#,J.Nove
4/11,19	Eastham(F.H.), P.I.	2, 3	.Ciccarelli+R.Barber,G.Gove
4/thr.,5/th	nr. 4 locales, 6 locales	4, 10 inds.	v.o.
5/18	Wayland	max. 5	R.Forster
Glossy Ibis:			
4/7.9	Halifax, Squantum	2, 1	J.Flaherty, D.Brown
4/23,26	Manchester, Marshfield	88, 33	P.Parsons, SSBC
5/5,14	S.Peabody, "anomet	28 migr.N,10 migr	.N R.Heil, "BO staff

WATERFOWL

Two orange-breasted Brant in a flock of 675 at Squantum were color-dyed on Long Tsland, New York, this past winter. Large numbers of Brant again lingered late at Newburyport; 900+ were still present there on "ay 14. A dead Fulvous Whistling Duck found on Nantucket on "arch 20 was probably one of the two remaining individuals from the flock of four (of which two were shot) on the island last December 14. The Barrow's Goldeneye concentration at Newburyport peaked in late March when <u>twelve</u> (6 adult males, 2 immature males, and h females) were viewed from a single vantage point on "arch 23. Statewide totals of 21± this spring and 30± this past winter reflect this species' observed, if not actual, increase here in recent years. The following table shows the steady, nearly 80% increase in wintering Barrow's Goldeneye in eastern "assachusetts since a low point during the winter of 1975-6, according to BLO.E.", records:

Individuals 30

 $\begin{array}{c} 25 \\ 27 \\ 20 \\ 15 \\ 10 \\ 10^{+} \\ 5 \\ 0 \\ 1973 - h \\ 1973 - h \\ 10^{+} \\ 10^$

An immature male Common Fider far inland at Charlton, Worcester County, must have been a startling sight. The origin of any inland eider is certainly open to question since eiders, unlike scoters, are virtually unknown away from the coast.

Brant:			
3/7.10	Wollaston, Squantum	450, 67%	S.Higginbotham
3/19	Squantum	2(orange-dyed bre	easts) R.Emery#
3/29	Salisbury, Duxbury Bay	70, 1400	R.Heil, B.Sorrie#
4/8,27	Winthrop, Newburyport	300, 640	M.Sharpe, R.Veit#
5/11,14	Sciluate, Newburyport	200+, 900+	W.Petersen#,R.Heil
Snow Goose:			
3/5,22	Warehar, "ilton	1, 1	D.Briggs, O.Wallen
3/29,4/3	Falmouth, P.I.	1, 80	S.Higginbotham,K.French
1/12,27	P.I., N.Scituate	280 migr., 7	P.Roberts, D.Brown
Fulvous Whis	stling Duck:		
3/20	Nantucket	1 (found dead)	K.Reilly,L. "ooker
Black Duck:			
3/16	Lynn, Quincy Bay	460, 561	TASL

3/26,29 Manomet, Dennis 125+, 150+ MBO staff.B.Nikula# 4/13.5/4 Thompsons I., N.Scituate 2.1 D.Brown, J.Grugan Horned Grebe: 3/1,23 Randolph, Boston(Jam.Pd.) 1 road kill, 1 W.Petersen, A.Agush 3/16.29 Hingham Bay, Lakeville 27, 3 TASL, J.Kricher 4/12 P.1. P.Roberts 4/13 Quincy, Hingham 64, 48 ASL Eared Grebe: Wachusett Reservoir(Clinton) | br. p!. 5/19-24 B.Blodget et al. Pied-billed Grebe: 3/15-23,16 Nantucket, Lakeville 1, 2 R.Veit#, BBC 3/22.23 Rockport, Sudbury 1, 1 G.Soucy.R.Forster 4/thr. 11 inds. 7 locales v.o. 5/17 S.Hanson pair on territory W.Petersen Northern Fulmar: 3/22,4/15 Rockport,Stellw. Bank 1. 1 G.Soucy, B.Nikula 5/3,8 Stellw. Bank 35+(all light), 3 W.Petersen Gannet: 3/22 Barnstable, P'town 36, 42 BBC 3/30,4/5 Nahant Bay, Salisbury 15, 300+ S.Zendeh, P.Roberts Great Cortorant: 3/10,16 Nahant, Hull area 140, 266 S.Zendeh, TASI. 4/12,26 N.Scituate 75. 12+ W.Petersen# 5/3,10 C'elly.Bank, Plymouth 3 imms. migr., 1 W.Petersen# 5/11 Millis, N.Scituate 1 ad., 10 B.Cassie,W.Petersen Manomet 5/16 1 inm. MBO staff Double-crested Cormorant: 3/4,21 Somerville,Nantucket 1(from Feb.), 1 imm. J.Berry, R.Veit# 3/23.26 Lakeville,S.Dartmouth 9 migr.NE, 1 F.Correia, D.Briggs 4/12,19,21 Sudbury Valley 96, 22, 180 R.Forster 4/13 Nahant, Hingham 300, 452 TASI, 4/12,27 75, 1300 300, 400+ 39, 157 W.Newbury, N.Scituate G.Soucy, D.Brown 5/8,18 Rockport, Ipswich J.Grugan, J.Berry 5/11,14 'lillis B.Cassie Great Blue Heron: 3/thr. 6 locales 7 inds. v.o. 4/11,12 W.Bridgewater,Sudbury V. 59, 9 migr. S.Higginbotham, R.Fors or 5/3 Cape Cod Bay 4 migr. NE W.Petersen 5/5,10 GMNWR, P.I. 10, 7 L. Taylor, BRC Green Heron: 4/14,16 Mt.A. 1,2 L.Crofoot, F.Bouchard# 4/19 on 9 10 Little Blue Heron: 9 locales 16 inds. V.0. 3/30 Yarmouth 1. J.Aylward 4/12-13,27-30 Manchester, Squantur 1-2, 1 H.Weissberg, D.Brown 4/27,5/31 "arshfield 1, 2 D.Brown, SSBC 5/18 Saugus 1 ad. C.Jackson Cattle Egret: 4/6,9 Bridgewater, Saugus 12, 5 J.Flaherty, P.Willis 4/19 on,20 max. 4, 4 "arshfield, "opsfield B.Sorrie#, G.Gove 5/14,18 Walpole, Ipswich 20, 14 D.Clapp, BBC Great Egret: 3/28-4/12,6 P.I., Westport 1-3, 1 H.Weissberg#,D.Davis 4/12-23,25-30 Marshfield, Nant. 1-2, 1 W.Petersen#, C.&E.Andrews 5/4,18 WBWS, Westport 1,6 W.Bailey, BBC 5/22,31 Squantum, Marshfield 2, 1 G.Wilson, SSBC Snowy Egret: 3/18,28 on Essex, P.I. 1, 1 P.Parsons, H.Weissberg# 3/29,4/7 Rowley 1, 25 R.Heil, R.Alexander# 4/7,13 Squantum,Scituate 11, 14 S.Higginbothaw, ".F.Litchfield 5/23-26 Cape Pogue-M.V. 35 BBC Louisiana Heron: 4/5,8-9 Osterville, Wareham R.Barber, E.Akers G.Gove#, V.Laux 1, 1 4/12 on,27 P.I.,Cape Pogue-".". 4/10-5/31 8 other locales max.4, 2 singles v.o. Black-crowned Night Heron: 3/16-30.4/20 6 locales, P.I. 16 inds., 40 v.o., F.Ha len 5/9,23-26 Milton, M.V. 10+, 37 U.Nania, BBC 5/31 'onomoy 18 nests found P.Trull#

Gadwall:			
3/2	Salem,Gloucester	14, 25+	R.Heil, BBC
3/16,19	Nantucket, W.Harwich	8, 8	M.Litchfield#,B.Nikula
4/26,27	Ipswich, Rowley	30, 30	M.Argue#, R.Veit#
Pintail:			
3/9,15-23	"arshfield, Nantucket	4, 2	W.Petersen#,M.Litchfield#
3/15,24	P.I., W.Bridgewater	25, 35	BBC,S.&R.Higginbotham
4/11	W.Bridgewater	20	S.Higginbotham
Green-winged			
3/21,24	Nantucket, W. Bridgewater	50, 30	R.Veit#,S&R.Higginbotham
3/22,4/5	Sudbury Valley, P.I.	8, 75	R.Forster, J.Berry
4/26,5/3	Rowley, P.I.	29, 10	R.Veit#, BBC
4/27	Rowley(Stilt Pd.)	1 m. (Eurasian race)	Veit, Perkins, Litchfield
Blue-winged T 3/20	eal: Marshfield, P.I.	4,2	S.Higginbotham,H.Merriman
3/24,29	W. Bridgewater, Wayland	12, 4	S.Higginbotham, R.Forster
4/5,26	S.Hanson, Rowley	4, 5	SSBC, BBC
European Wige			
5/31	Newburyport	1 m.	L.Crofoot, G.Gove#
American Wige			
3/6;15-23	Belmont;Nantucket	100+; 300 M.D	odder;R.Veit,'.Litchfield
4/5,26	Belmont, Ipswich	45, 9	R.Stymeist, BBC
Northern Shov	eler:		
3/18-19,3/2	3-4/5 Needham,S.Hanson	1-2, pr.	O.Komar#,W.Petersen#
	P.I.,Canton(F.M.)	15, 1 m.	v.o., D.Brown
5/17	Squantum	1 m.	W.Petersen#
Wood Duck:		1	
3/8,9	S.Hanson, Belmont	4, 1	SSBC, L.Taylor
3/7-10,30	't.A., G'NWR	3, 27 30	R.Stymeist, P.Roberts#
4/6	IRWS	30	R.Heil
Redhead:	Salisbury, Lakeville	1, 2	BBC
3/1,16 3/15-23	Nantucket	300	R.Veit, M.Litchfield#
4/6,13	Braintree, Boston Harbor		BBC, TASL
Ring-necked I		-, -	
3/15,23	W.Carver, IRWS	180, 37	K.Powers#, R.Heil
3/30	W.Newbury, S.Hanson	34, 100	I.Giriunas, W.Petersen
4/5,24	W.Bridgewater, S.Hanson	66, 75	SSBC
Greater Scaup):		
3/16	Nant; Hingham, Lynn	250; 601, 2030	M.Litchfield; TASL
4/5,5/17	Newburyport	500, 2	BBC, G.Gove#
Lesser Scaup:		2.5	
3/9,30	Newburyport, P.I.	1 m., 1 f.	J.Berry, I.Giriumas
4/5,24	S.Hanson	1, 2 m.	W.Petersen
4/24	Braintree(Great Pd.)	3	D.Brown
Common Golder		450+, 300	BBC
3/2,16	Cape Ann, Newburyport	350+, 8	R.Veit#, BBC
Barrow's Gold	Nantucket, Woburn	350., 0	noveron, bbo
	Nantucket, Hull	6+, 1 f.	R.Veit#, W.Petersen#
3/thr.	Newburyport max. 12	(6 ad,2 imm.m.,4 f	
3/23	Plymouth	l ad.m.	B.Sorrie, E.Strawn
4/1,5	Chathan, Newburyport	1,4	J.Aylward, J.Berry
Bufflehead:			
3/16	5 Greater Boston locales	1351	TASL
5/17,25	S.Hanson, Lynn	1 f., 1 f.	W.Petersen#,R.Stymeist#
Oldsquaw:			
3/29,4/25	Duxbury, Newburyport	100, 1200	B.Sorrie, W.Petersen
5/14	Newburyport	300	R.Heil
Harlequin Duc		-	profil o p 11 /
	4/3 Magnolia, Nantucket	3, max. 5	BBC#, S.Perkins#
4/9,27	Rockport, N.Scituate	4, 1 0 1	C.Leahy, D.Brown
5/8,25	Rockport, Lynn	2, 1 m.slightly oil	led J.Grugan, R.Stymeist#
Common Eider		8000 2000	H Wiggin# SCBC
3/9,22	Plymouth, Manomet N.Scituate	8000, 2000 850	H.Wiggin#, SSBC D.Brown
4/27 5/3-4	Charlton (Worcester Co.)	1 imm. m. *	R.'Meservey, B.Blodget
5/3-4 King Eider:	unar room (nor ceauer co.)		
3/1,4/13	Rockport, Hull	1 f., 1 f.	BBC, S.Higginbotham
31-3-1-3	CONTRACTOR & CONTRACTOR	Concernance of the second second	A REAL PROPERTY AND

	7 N.Scituate (Glades) Monomoy	2 f., 1 f. 1 imm. m.	BBC, S.Higginbotham W.Petersen, B.Sorrie
White-winge		- Inn. m.	w.retersen, b.sorrie
		500 000	
	P.I., N.Scituate	500, 102	P.Roberts, D.Brown
	P.I., Winthrop	85,200	H. 'erriman, C. Jackson#
Surf Scoter			
4/19,27	Nantucket, N.Scituate	200, 21	C.Jackson, D.Brown
Black Scote	r:		
4/19,27	Nantucket, N.Scituate	100, 42	C.Jackson, D.Brown
Hooded Merg			orowenson, proronn
3/15,30	Eastham, Halifax	32, 7	J.Aylward, W.Petersen
Common Merg	anser:		
3/1,14	Newburyport, Wayland	127, 91	BBC, R.Forster
3/26		50+, 60+	MBO staff, J.Baird
4/5	Lincoln	68	R.Stymeist
4/9,11		180, 500	D.Brown
	S.Peabody	3	R.Heil
		3	R.Hell
	d Merganser:	same set and a set of the	
3/16,21	Hingham Bay, Nantucket	500+,1800+	W.Petersen#,R.Veit#
4/5	P.I., Harwich	225,500	BBC, J.Bird
5/17	Manchester	10	BBC

RAPTORS

The continued increase and expansion of the Turkey Vulture was never more apparent than with this spring's total of 170+ individuals reported. Last year there were 129+, a very hearty jump in numbers from only 35 reported during the spring of 1976. Certainly the Eastern "assachusetts Hawk Watch (ETHW) spearheaded by Paul Roberts has had its effect on the new improved totals of all our raptor species. The following list represents the EMHW totals from April 5 through "ay 10, 1980.

Turkey Vulture 81	Broad-winged Hawk 341
Goshawk 7	Rough-legged Hawk 2
Sharp-shinned Hawk 132	Marsh Hawk 28
Cooper's Hawk 10	Osprey 65
Red-tailed Hawk 111	Merlin 12
Red-shouldered Hawk 12	American Kestrel 528

Paul Roberts reports that the spring of 1980 hawk migration was rather sparse, and he hopes that the fall migration will be the best thus far for the ETHW.

It is also encouraging to see fair numbers of Red-shouldered Hawks in our area with 37 individuals reported. Also on the upswing are the Westport River Ospreys. Gil Fernandez reports that 21 pairs were on nests there; this is the most since there were 22 pairs in 1968.

The rarer species reported during the spring included two immature <u>Golden Eagles</u>, nine Bald Eagles, 17 Peregrine Falcons (including the downtown Boston winter resident), and a light phase <u>Gyrfalcon</u> at Salisbury. R.H.S.

Turkey Vultu	re:		
3/18,29	Belmont, Milton	1, 1	P.Butler, D.Davis
3/30	W.Newbury, Quabbin	2, 3	E.Pyburn#, BBC(Drummond)
4/5-13.6	Framingham, Bridgewater	6(total), 2 R.Fors	ter,K.Hamilton+W.Petersen
4/6,12	W.Newbury, Ashburnham	4, 4	R.Heil, R.Stymeist#
	P'town, 'anomet	3, 2	B.Nikula, 'BO staff
4/18,20	'iddleboro, Canton	3, 2	K.Holmes, D.Brown
5/27,29	Eastham, WBWS	6, 8	C.Smith, W.Bailey
'ay report	s various locales	25 ind.	v.o.
April repo	rts various locales	17 ind.	v.o.
Goshawk:			
early Mar.	,3/23 Newburypart, Amesbury	1, 1	H.Weissberg, J.Grugan
4/19,24	Mt.Wachusett, Boxford 1,	1 m. (display flight) W.Petersen#, R.Forster#
5/4 on	E. "iddleboro	1 or 2	K.Anderson
5/16,25	Sharon, Norwell	1, 1	D.Clapp, B.Litchfield
5/26	Bridgewater, Framingham	1 ad., pr. w/yg.	W.Petersen, K.S.Hamilton
Sharp-shinne	d Hawk:		
3/16,24	Nantucket, Lincoln	1, 1	".Litchfield#, R.Forster
3/28,30	Middleboro, Quabbin	1, 1	D.Briggs, BBC

4, 12 D.T.Brown, P.Alden# 4/20,5/3 Canton, W.Newbury 5/4 R.Veit#, R.Forster 24, 3 Milton, Framingham 1, 2 J.Berry#, K.Anderson Ipswich, E.'iddleboro 5/4 19, 6, 1 J.Grugan, G.d'Entremont#, BBC 5/9,10,24 P.I. Cooper's Hawk: 3/9,4/6 H.Wiggin#, J.Andrews# 1, 1 Bridgewater, Lexington B.Nikula#; G.Gove, SSBC 1, 2; 1, 1 P'town; P.I., "t.Wachusett 4/12,16;19 R.Forster, D.Brown 1 ad., 1 4/22,27 Lincoln, N.Scituate BBC(G.d'Entremont), R.Styneist 5/10 W.Newbury, Rowley 1, 1 Red-tailed Hawk: 3/8 22 (11 at Bolton) R.Stymeist+P.+J.Roberts Sudbury-Bolton 5,5,5,6, H.Robbins, H.Wiggin# 3/2.9 Medfield, Bridgewater Rowley, G'NWR, W.Newbury R.Heil, P.Hallowell, R. 'cHale 3/23 4/11,12,20 "illis, Ashburnham, Canton 9, 13, 14 B.Cassie, R.Veit#, D.Frown Wellesley 1 nest w/chicks on 8th fairway J.Burns 4/19 BBC(Drummond) Tisbury(".V.) 5/23-26 Red-shouldered Hawk: 3/9,10 Truro, Brewster B.Nikula#, P.Trull 1, 1 R.Campbell, J.Flaherty# W.Drummond#, R.Heil 3/6,8, 1, 1 Braintree, Bridgewater Peabody, Rowley 1, 1 W.Drummond#, R.Heil Norwell; S.Hanson, "edfield 1; 1, 1 B.Litchfield;W.Petersen,H.Robbins 3/13,16 3/22;23 Norton 2 displaying + 4 at same time J.Kricher 3/28 B.Cassie, R.Veit#, R.Heil "illis; Boxford, IRWS 2: 1-2, 1 4/1+5:6 4/12,20 Marshfield, Canton 1, 1 W.Petersen, D.Brown 1 inrt., 1-2 R.Heil, K.Anderson 5/9, 14 on Truro, E. liddleboro 5/18 I.Giriunas, L.Taylor Ipswich, "t.A. 2, 1 Broad-winged Hawk: 4/12 Wayland, Ashburnham 1, 9 R.Forster#, R.Stymeist# Mt.Wachusett, E.Middleboro Canton (F.M.) 37, 3 37, 10 4/19,20 SSBC, K.Anderson 4/20,21 D.Brown P.Parsons, W.Bailey J.Berry#, J.Kricher 4/23,26 Manchester, WBWS 1, 14, 4 5/4,5 Ipswich, Norton 12, 25 R.Heil, B.Nikula 5/9,10 P'town, Truro Rough-legged Hawk: 3/1.10 P.I., Saugus 2, 1 F.Bouchard#, J.Berry W.Petersen, R.Veit# 3/15,18 Marshfield, Nantucket 3, 2-3 3/23,4/6 Middleboro, P.I. S.Higginbotham, P.Roberts 1, 1 Golden Eagle: 3/23,5/4 R.'IcHale#, R.Veit W.Newbury, Milton 1 imm.; 1 imm. Bald Eagle: Orleans, Amesbury-Newbrypt 2 imm., 2-3 imm. B.Nikula#,D.Alexander#+v.o. W.Newbury, G'NWR 1 ad., 1 imm. P.Parsons, ".Greenwald 3/2,5 on 4/15,24 1, 1 imm. SSBC. B.Nikula 5/3,10 W.Newbury, "ruro Northern Harrier: 1-2 + 11 on 4/6 hr.spring Newburyport-P.I. P.Roberts# + v.o. R.Veit# 3/15-23 Nantucket 15+ 1 m., 1 m. 2, 6 "aunton, Framingham 4/5 J.Kricher, R.Forster Marshfield, Nantucket W.Newbury; "t.A., Milton 4/20 S.+N.Osborne,P.Hallowell 5/3; 4 2; 1, 2 P.Alden#:D.Sipher,R.Veit# Osprey: 3/29 Lakeville 1-2 J.Kricher + v.o. 4/1 2 nesting N.+S."acDonald + v.o. Wareham spring Westport River 21 prs. on nests fide G.Fernandez This is the most since 22 pairs in 1968. 4/3:5 Concord; Lincoln, W.Newbury 1; 2, 3 C.Lipson; R.Styreist#, BBC 4/12 Ashburnham R.Veit# 13 ind. Apr. migrants V.O. May migrants ll ind. v.o. 5/23-26 Chappaquiddick ('.V.) 7 BBC(Drurriond) Gyrfalcon: 1 "light phase" R.'cHale, fide R.Forster 3/2 Salisbury Peregrine Falcon: early 'ar. W.Newbury 1 E.Pyburn, S.Garrett 3/20 'onoroy, Nauset 1 ad.m., 1 irm. B.Nikula, R.Prescott 4/3 Boston(Saks Fifth Avenue) on roof eating pigeon L.Apicella 4/14+17 Boston(State Street Bank) T.Raymond 4/4,11 Eastham, W.Bridgewater 1,1 P.Barber,S.Higginbotham 4/19+26 1, 1 3, 1 Monomoy B.Nikula# 4/20 N.Scituate, Newburyport S.+R.Higginbothar, P.Roberts

4/24	Gloucester	1	J.Baird
5/4,6	Milton, Mt.A.	1, 1	R.Veit#, S.Perkins#
5/15,18	P'town, S.Orleans	1, 1	C.Goodrich, B.Nikula#
"erlin:			
3/9+23	Salisbury	1 + 1	M.McClellan#, G.Gove
3/9,15+21	Duxbury, Nantucket	1, 1 + 1 W.Pe	etersen#, M.Litchfield# +R.Veit#
3/16,19	Hingham, Beverly	1, 1	W.Petersen#, J.Nove#
3/23,27	P.I., Danvers	1, 1	T.Martin, R.Heil
4/5 on	P.I.	14 migr.	v.o.
4/22,27	MBO, N.Scituate	1, 1	MBO staff, D.Brown
5/14	Mt.A.	1	0.Komar#
5/18,24	Squantum, P.I.	1, 1	C.Jackson,BBC,H.Weissberg
American Kes	trel:		
4/5,6	Rowley, W.Newbury	10-12, 20	J.Berry, R.Heil
4/5,6,11,1	2,19 P.I.	23, 57, 195, 38, 28	P.Roberts#, M.Schoene on 4/11
5/9	Truro	22	R.Heil
4/5,6,11,1	2,19 P.I.	23, 57, <u>195</u> , 38, 28	P.Roberts#, M.Schoene on 4/11

SHOREBIRDS

A very early American Oystercatcher arrived at Eel Point, Nantucket, by <u>"arch 16</u> although the general arrival of the local breeders occurred in mid-April. A record count of <u>122</u> Willets at Chatham, April 24, occurred in conjunction with NE winds and fog April 23-24. Apparently these were Nova Scotia bound migrants which normally pass by far offshore but were intercepted by the concurrent northeaster. Red Knots and Pectoral Sandpipers were notably scarce with only eleven and sixteen individuals, respectively, reported. White-rumped and Semipalmated sandpipers both peaked around "ay 25-28 at "onomoy and Newburyport. Two winter-plumaged <u>Long-billed Dowitchers</u> in April and two <u>Stilt Sandpipers</u> and a <u>Marbled Godwit</u> in May were rare spring migrants this far northeast. Palearctic shorebirds this spring included a "<u>Eurasian Whimbrel</u>" at "uskeget Island on April 11 and an average complement of three Curlew Sandpipers R.S.H.

American Oyst	ercatcher:		
3/16	Eel PtNantucket	1	M.Litchfield,S.Perkins
4/thr5/th	nr. Monomoy	max.14 (2 nests)	B.Nikula, P. Trull#
4/26	Bird IMarion, Eastham	2, 3	I.Nisbet#,J.Kricher
5/11,23-26	Scituate, Cape Pogue-M.V.	1,6	W.Petersen#,BBC
Semipalmated	Plover:		
5/17,24	Newburyport	1, 27	BBC
Piping Plover			
3/23-31,28	P.I., Plymouth Beach	1-2,2	M. McClellan#, MBO staff
4/6.24	Plymouth, Scituate	14, 6	MBO staff,W.Petersen
4/thr.	Monomoy	max. 50(4/19)	B.Nikula
5/11:26	P.I.; Plymouth	5; 6 ads.,4 chicks	BBC; R.Stymeist#
Killdeer:			
3/1.2	Squantum, Salem	1, 1	G.Gove, R.Heil
	14 other locales	46 inds.	v.o.
4/5.6	Tyngsboro, Newburyport	20, 36	R.Stymeist, R.Veit#
American Gold			
3/20-4/1,17	-26 Salisbury, "onomoy	1, 1 (both winter p	ol.) H. "erriman#, B. Nikula#
Black-bellied			
3/16-23.29	Nantucket, Duxbury	1, 4	M.Litchfield#,W.Peterson#
	Duxbury, "onomoy	80, max. 400+	W.Petersen, B.Nikula
	'onomoy, E.Boston	1500, 1000	B.Nikula, C.Jackson
	Newburyport	450, 3500	R.Heil
Ruddy Turnsto			
	Squantum, off S.Boston	10, 50	R.Emery#, C.Jackson#
American Wood			
3/1	Amesbury, N. Chatham	1, 1	BBC, W.Cordes
3/16 on.25	11 other locales, Sudbury	19 inds., 5	v.o. R.Forster
4/21	Norwood to Milton	22	D.Brown
	Hamilton, Chappaguiddick I.	6-8, 5	J.Berry, BBC
Cormon Snipe:			
	Bridgewater, Nantucket	8.3	BBC, R.Veit
	Newburyport, Ipswich	6, 5	L.Crofoot, R.Heil
51- 3-5	and a second provide the second s	0.001 (5)	

4/12 4/21	W.Newbury,Sudbury Valley Norwood to Milton	40, 103 83	R.Heil#,R.Forster# D.Brown
5/10 on	E.Bridgewater	pair on territory	W.Petersen
Whimbrel:			
4/6,17;19	P.I.	1, 1; 1	R.Veit#;M.McClellan#
4/11		n type-no details)	C.&E.Andrews
4/15,19	Squantum, Monomoy	1, 3	D.Brown, B.Nikula
4/20,20-21		1, 1	B.Sorrie#, P.Hallowell
4/26-5/4	WBWS	3	W.Bailey
Upland Sandpi			
4/19-26	4 locales	5 inds.	V.O. U Monsimon U Miggin#
5/3	Lancaster, Newburyport	3, 5	H.Merriman, H.Wiggin#
Spotted Sandy 4/20		1 1	F.Hamlen#,C.Jackson#
4/26-27	P.I. basin, Nantucket 3 locales	1, 1 singles	V.O.
5/18	Medford, Wayland	6, 9	C.Jackson#,R.Forster#
Solitary Sand		0, 9	oroactoons , intro bocch
	Concord, F.M.	1,2	J.Baird#, D.Brown
5/3-17	8 locales	9 inds.	v.o.
Willet:	o iocares	y inus.	
4/20,23	S.Chatham, Duxbury	1,1	W.Petersen#
4/20,24	Nantucket, Chathar	4, 122	P.Hallowell, B.Nikula
5/6-25,14	Newburyport, Squantum	1-3, 8	R.Heil#, G.Wilson#
5/23	Monomoy	12	B.Nikula#
Greater Yello		and the	
3/20,29	Newburyport, Rowley	1,8	H. Merriman, R. Heil
4/5,6	Concord, Newburyport	1, 14	R.Forster, R.Veit
4/19,30	'arshfield, Squantur	48, 82	B.Sorrie, D.Brown
5/6,14,28	Newburyport	500, 230, 150	R.Heil
Lesser Yellow			
	-24 Marshfield, Nantucket	1-2, 3	W.Petersen#,E.Andrews
4/14,27	Newburyport	1, 12+	M."cClellan#,R.Veit#
4/20,26	Squantur, Rowley	4, 2	D.Brown, BBC
5/11,14	'arshfield, Newburyport	7, 3	W.Petersen, R.Heil
Red Knot:			
3/9,4/23	N.Scituate, Duxbury	1, 3	H.Coolidge#,W.Petersen
5/thr.	Only 7 singles reported		v.o.
Purpie Sandpi	per:		
3/7,16	N.Scituate,Hinghar	100+, 100	S.Higginbotham, TASL
4/13,26	Winthrop, Acoaxet	300, 35	R.Stymeist, BBC
5/18,26	Winthrop,Scituate	5-10, 25	C.Jackson#,W.Petersen
Pectoral Sand			
3/23	P.I.	1	''BO staff
4/5 on	4 locales	5 inds.	V.O.
4/17,21	P.I., F.".	4, 3	"."cClellan#, D.Brown
5/17-24	3 locales	singles	v.o.
White-runped			m 17 4 1
5/6,28	Newburyport	1, 10+	E.Heil
5/16,25	"onomoy	30+,50	B.Nikula#,W.Petersen#
Least Sandpip			D West W Tateshed ald
4/27	Newburyport	1 000 Roo 075	R.Veit,".Litchfield
5/6,14,28	Newburyport	900, 800, 275	R.Heil W.Petersen#,B.Nikula#
5/11,16	Scituate, Monomoy	300, 500	w.recersen#, b. Mikula#
5/16-19	per: (all breeding plumage) "onomoy	1	B.Nikula, R.Forster#
	Newburyport	1, 2	L.Crofoot#,G.Gove#
Dunlin:	Newbury por o	-, -	1.01010000, 0.0010
3/16	Lynn Harbor, Quincy Bay	120, 93	TASL
4/23,27	Duxbury, Newburyport	450, 70	W.Petersen, R.Veit
5/6,14,28	Newburyport	400, 600, 200	R.Heil
5/16	"onomoy	3500	B.Nikula
Short-billed			
4/11,12	Newburyport	1, 1	S.Perkins, R.Heil#
4/17,26	Monomoy, WBWS	10+, 20	B.Nikula, W.Bailey
5/6,14,28	Newburyport	50, 400, 100	R.Heil
Long-billed D			
4/6,13	E.Boston, Chatham	1. 1(both winter pl	.) R.Veit#,B.Nikula
Stilt Sandpip			
5/11,17	Marshfield, P.I.	1 breeding pl., 1	W.Petersen, BBC
		2005 C	

Semipalmated	Sandpiper:		
5/6,14,28	Newburyport	4, 2200, 6000	R.Heil
5/28	''onomoy	2000	B.Nikula
Marbled Godw:	it:		
late "ay	Cockle Cove-Chatham	1	R.Pyler, D.Reynolds
Ruff:			
4/12,21	W.Bridgewater, Canton(F.M.)	1 m., 1 m.	S.Higginbotham#, D.Brown
	3 Newburyport	1 m., 1 f.	R.Veit#, G.Gove#
Sanderling:			
3/16,5/16	Lynn, 'lonomoy	90, 3500	TASL, B.Nikula#
Wilson's Pha	larope:		
5/11 on	P.I.	max. 2 pairs	
5/22-31,23	-25 Cockle Cove-Chatham, "on	omoy max. 2 prs., 2	P. H.Rich#, B.Nikula
Northern Pha			
5/3,23	Stellwagen Bank, 'onomoy	6, 15	W.Petersen#, B.Nikula#
5/19	Wachusett Reservoir, Clinto	n 1	B.Blodget

JAEGERS THROUGH ALCIDS

Four Lesser Black-backed Gulls were found on Nantucket: one adult, one third winter, and two second winter plumaged birds. For more information on these sightings and the identification of Lesser Black-backed Gulls, see Richard Veit's paper in this issue. At Revere, an adult <u>Common Gull</u> was well photographed on 'ay 9, and another was well observed in Hull on the TASL Boston Harbor survey on April 13. An adult <u>Sabine's Gull</u> was found on 'onomoy where a <u>Forster's Tern</u>, a rare spring visitor, was also found. This was only the fourth satisfactory report of a spring Forster's Tern in 'assachusetts. A <u>Royal Tern</u>, the seventh spring record for this species in the state, was also found on 'onomoy on 'ay 25. Finally, another <u>Sooty Tern</u>, long dead, was found in Chatham bringing the total to 88 individuals that were blown up during Hurricane David in 1979. R.H.S.

Parasitic Jae	ger:		
5/3,10	Stellwagen Bank	1-2, 2	W.Petersen#
Glaucous Gull	:		
3/7,13	N.Scituate	1, 1	S.Higginbotham
3/9	P.I., Gloucester	1(1W), 2(2W)	R.Heil
3/19-22	Nantucket(Low Beach)	3(1W)	R.Veit, ".Litchfield
4/23,25	Duxbury, P.I.	1(2W), 1 imm.	W.Petersen#
5/11,24	Newburyport, Nauset	1, 1(2W)	L.Crofoot#,T.Leverich
5/25	'onomoy	l imm.	W.Petersen#
Iceland Gull:			
3/19-22.22	Nantucket, Gloucester	35,15	R.Veit#,L.Jodrey#
	P.I., Dover	15-20, 1	J.Grugan, F.Hamlen
	Gloucester, Cape Pogue-". V.	2, 2	BBC, V.Laux
	Provincetown, "onomoy	1(2W), 1 imm.	R.Heil,W.Petersen#
Lesser Black-			
	Nantucket(Low Beach)	4(1 ad., 1(3W), 2(2W)	Veit, Perkins, Litchfield
Herring Gull:			
3/19-23	Nantucket(Low Beach)	3000+	R.Veit#
Fing-billed G	ull:		
4/11,27	Quincy Bay, Newburyport	280, 650	D.Brown, R.Veit
5/8	Revere	860	C.Jackson#
Common Gull:			
4/13,5/9	Hull, Revere 1 ad. (W p	1.), 1 ad.(well ph.)	W.Petersen#,S.Zendeh
Black-headed	Gull:		
3/1-2;thr.	Gloucester; Newburyport	1 ad; 1 ad, 1(1W)	"."cClellan#,R.Hei!#
4/15,21	Dorchester	1 ad., 1 imm.	D.Brown
4/19,27	Newburyport	2 ad., 3(1 ad., 2(1W) D.Alexander, R.Veit
4/24-5/22	Chatham	1-3 inn.	B.Nikula#
5/8,14	Plymouth, Newburyport	1, 2(first yr.)	W.Petersen, R.Heil#
Laughing Gull			
4/5,20	Chatham, Nantucket	1, 2-3	J.Bird, C.Jackson
4/26,5/17	'ashpee, Newburyport	6+, 2 ad.	B.Cassie, G.Gove
5/7	Chatham	+008	R.Heil
Bonaparte's C	ull:		
3/18-23	Nantucket (Low Beach)	150	R.Veit, S.Perkins#
4/27,5/6	Newburyport	62+, 350	R.Veit#, R.Heil

Little Gull:			
3/1-2,thr.	Gloucester, Newburyport		1W) "."cClellan#,R.Heil#
5/14	Newburyport	4(2 hooded ad., 2	
5/14,16-31	"ruro, "onomoy	1 dead(1W), 2 imm	. D.'insky, v.o.
Black-legged			
5/17,25		400 inm., 12	B.Nikula, W.Petersen#
Sabine's Gul			
5/19.02	"onomoy lac	i. D.Clapp + R.For	rster#,W.Bailey + C.Goodric
Forster's Te	rn:		
5/23-31	'onomoy	1-2 winter pl.	B.Nikula,W.Petersen#
Common mern:			
4/22,26	". "., Bird I "arion	6,40	".Laux, I.Nisbet#
4/27	Monomoy	100	P. "rull
5/9,21	Provincetown, Wayland	750+, 1	R.Heil, R.Forster
Arctic "ern:	the second second second second		
5/10.26	Monomoy, Plymouth	6, 15 (6 nests)	R.Heil#, R.Stymeist#
Roseate "ern:			
4/26	Bird I"arion, "ashpee	85, 156	I.Nisbet#, B.Cassie
Sooty Tern:	Dird if drain, desper		
4/27	Chatham	1 (long dead)	P. Trull
Royal Tern:	Chicoham		
5/25	'onomoy	1	B.Sorrie, W.Petersen
Caspian Tern:			
4/30	Hull	1	B.Treat#
	Squantum, Rockport	1, 1	K.Winston#, J.Grugan
5/17.24	Squantum, Plymouth	1, 1	W.Petersen#,B.Sorrie#
Black "ern:	oquantum, raymouth	-, -	
5/8	Wayland (Heards Pd.)	12	R.Forster
5/16.23	'onomoy	1, 2	B.Nikula
5/19,24	Wachusett ResClinton	1, 1	H."erriman, FBC
Razorbill	adenase of hear of theor	-, -	
3/15,4/18	Nantucket	25, 82	M.Litchfield#,S.Perkins
4/19.27	Nantucket Sound, N.Scituate		C.Jackson, D.Brown
Black Guille		, -	
		ich) 5, 12	BBC, R.Veit#
	Acoaxet, P'town Harbor	1, 12	D.Briggs, P.Trull#
4/27	N.Scituate	16	D.Brown
4/21	C.Cod Bay, Rockport	$\frac{10}{1-2}$, 1	W.Petersen#, J.Grugan
0	C.Cou Day, NOCKPOIL	1-2, 1	nite corrections, or or upon



Common Gull (left) in Revere (5/19/80). Photographed by Soheil Zendeh

CUCKOOS THROUGH WOODPECKERS

Cuckoos were reported in good numbers again this year; however Black-billed Cuckoos outnumbered Yellow-billed. Note the very early arrival date of April 18 of a Yellow-billed Cuckoo banded at "anomet. Four active nests of Barn Owls were located on the Vineyard this summer with others reported from Orleans and Nantucket. The <u>Great</u> Gray Owl, first found on February 7, was still present in Oakham on March 1.

The highlight of the month was a <u>Burrowing Owl</u> found on Plymouth Beach on 'ay 13. The last time this bird was reported in Massachusetts was on 'ay 15, 1875 in Newburyport where it was collected. It is now in the Boston 'useum of Science. A more recent New England record was a bird which appeared in New Haven, Connecticut, December 19-28, 1979.

At least three <u>Chuck-will's-widows</u> were seen and heard on Chappaquillick Island. Chucks have been reported for several years on the Vineyard and Nantucket although no nests have yet been found. Thirty-seven Ruby-throated Rummingbirds were banded at 'anomet during May, and at least twenty were seen on 'ay 24 on Plum Island. A Pileated Woodpecker was observed in 'ount Auburn Cemetery, a strange sight indeed! Ten Red-bellied Woodpeckers were reported as compared to only one last spring and there were eight Red-headed Woodpeckers noted. For the second year in a row Yellowbellied Sapsuckers were scarce with only fourteen reported all spring. R.H.S.

Yellow-billed		5-10-5	
4/18	Manomet	L (b)	MBO
	Cape Pogue (".V.), "illis		V.Laux, B.Cassie
5/18,20	'iddlesex Fells, E. "iddlebor		P. Poberts, K. Anderson
5/26,27	G'NWR,Winchester	1, 1	PHC, G.Gove
5/31	Scituate, "ilton	2,1	SSBC, F.Harlen
Black-billed		3.3.3	
5/14	Lexington, 'ilton, W. Newbury	3, 2, 2	J.Andrews, R.Vernon, D.Brigger
	Winchester,Wayland,Whitman	2, 1, 1	G.Gove,R.Heil,W.Petersen
5/18 on	various locales	29 inds.	V.O.
Barn Owl:		1. 12	
3/2,17-23	Pochet I., Nantucket	1, 1	v.o., R.Veit#
4/7	··.v.	nest w/3 yg.	V.Laux
thr.''ay	···.V.	4 active nests	fide V.Laux
Screech Owl:		V	
3/2,9	IRWS,"iddleboro	4,7	R.Heil,W.Petersen
	"t.A.	nest w/2+ yg.	I.Giriunas + v.o.
Great Horned	Owl:		
3/9	''iddleboro	4	W.Petersen
5/2	Lancaster	1 flightless yg.	H.''erriman
Burrowing Owl	1:		
5/13	Plymouth Beach	1 studied for b	hr. B.Harrington
Barred Owl:			
4/11	Boston(Beacon Hill)	1	D.Gearon
5/26	Lakeville	4-6(2-3 prs.)	W.Petersen
'ay	Boxford, Bridgewater, Stow	nesting pairs	J.Berry#,W.Petersen,R.Miller
Great Gray Ow	1:		
3/1(from 2)	1) Oakham	1	D.Shepherd
Long-eared Ow	11:		
3/16,17-23	Salisbury, Nantucket	1, 6-7	R.Clayton#,R.Veit#
4/1	Quincy	1	D.Brown
Short-eared (W1:		
3/23,24	Scituate, P.I.	1, 2	S.Higginbothar,L.Crofoot
4/5.12	Barnstable,Squantum	1, 1	J.Bird, R.Clayton#
5/10	'onoroy	1	R.Heil
Saw-whet Owl:			
3/2,9	IRWS,E."iddleboro	1, 1	R.Heil, W.Petersen#
	3-22 Brewster	1. 4	P.Trull, v.o.
5/18-24	Wellfleet	1(at hole)	N.Proctor
Chuck-will's-	-widow:		
	Chappaquiddick I.(".V.)	3	BBC(W.Drurmond)
	i seen on road; well describe		
Whip-poor-wil			
5/4,4 on	Hamilton, E.''iddleboro	1, 1	J.Berry, K.Anderson
	W. Mansfield, Millis	1, 1	J.Kricher, B.Cassie
11-23-1	and the second second	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	

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	25 Rowley, V. W.Newbury	10, 16, 6	R.Stymeist#,BBC,T.Lawrence#
Corron Nightl 5/7	Nanomet		100 -1 -00
5/12,13		1	BO staff
	E. "iddleboro, Wayland	1, 3	K.Anderson,R.Forster
5/14 ON,15	on Brookline, Cambridge	4-5 pr., 3-4 pr.	R.Styneist
	W.Newbury,Lexington,P.I.	9,21,17 H.W	iggin#,J.Carter,R.Stymeist#
Chimney Swift			
	Lynnfield,Randolph	2,8	C.Forster, D.Brown
4/27,5/14	Brookiine	1, 1 dead on tree	H.Wiggin#,R.Stymeist#
5/18	lpswich	36	BBC
	l Hummingbird:	the second second second	
	Sharon, 'BO	1, 37 '10 m.,17 f.) D.Clapp, 'BO staff
5/11	Plymouth, Winchester	1, 1	W.Brewster, G.Gove#
5/17 -31	"t.A.	max. 10 (5/25)	V.O.
5/13,14	Needham,E. iddleboro	1, 2	B.Cassie,K.Anderson
5/16,5/17 c	on Salem, P.I.	3, max. 20(5/24)	C.Blasczak,v.o.
5/17	Nahant, W.Peabody	6, 4	H.Wiggin#,H.Coolidge#
Belted Kingfi	sher:		
late "ay	"t.A. Pr.nesting in f	uture monument hole.	R.Styreist#
"or on Flicke	er :		
3/16	Nantucket	15	1.Litchfield#
Pileated Wood	lpecker:		
(/10,23	Beverly, 'anchester	1, 1	J.Nove#, P.Pursons#
3/29.4/10	Norton, "t.Aubarn	1, 1	J.Kricher, J.Hill
April	8 locales	sincles	V.0.
5/13,22,20	"anchester, Concord, Dover	1, 1, 1 R	.Heil#,L.Taylor,J.Marshall
Red-bel ied W			
	pr. Brewster	T	R.Pvle
	'ar. Rehoboth,Adarsdale	1.1	fide R.Forster
	on, 3/14 Needhar, "illis	1,1	VanAartsen,B.Cassie
	Sandwich, 'iddleboro	1.1	J.Aylward, fide K.Anders n
	.'6 WBWS, "isbury(".V.)	ex.	C.Goolrich#+v.o., BBC
Red-headed Wo			
	17 Lanesville, "illis	1. T	F.Bouchard#,B.Cassie
	Wayland, P'town	1, 1	B. 'oyer, B.Nikula#
5/22	Lynn	pair at nest	R.Heil
	Boxford, 'onomoy	1, 1	T.Lawrence#,R.Finch
Yellow-bellie			· · · · · · · · · · · · · · · · · · ·
1/10,15;24		1, 1; 1	R.Styreist; S.Zendeh
4.17.18	Lynn, Millis	2, 1	R.Heil,B.Cassie
4/19	Wilton, P.I.	1, 1	G.Wilson, G.Gove
4/20,26			D.Brown, G.Souey#
5/4.9	Squartum, Newburyport	1, 1	
	Danvers, Lexington	[·]	L.Taylor#,J.Andrews
5/14,17	"t.A.,Newburyport	1, 1	v.o., ".Noland#

FLYCATCHERS THROUGH SHRIKES

An <u>Ash-throated Flycatcher</u> was found in Rowley where it remained from "ay 18-24; this is the second spring record for the northeast and the fourth record for the state. Spectulation as to whether this bird was one of the several reported last fall and winter was raised. Could this bird have wintered in the southeast somewhere? Only two <u>Acadian Flycatchers</u> were noted this spring, both banded at Manomet. A Western <u>Wood Fewee</u> was seen and heard at Morris I., Chatham, on "ay 23, only the fourth state record. The other three records are from nearby "onemoy Island.

A concentration of Bank Swallows extending from the Plum Island airport to the Plum Bush and southward to Pine Island was carefully estimated at 1200+ individuals. On the airport runway, 450 were actually counted and at least 10 were killed by airplane traffic. These birds were observed around 2 F.M. on May 28, and there were virtually none at 4:30 P.M. A pair of <u>Ravens</u> was watched for twenty minutes or so at Nutting Pill, Ashburnham. They were seen diving and rolling in a spectacular flight show, oblivious of the 30 Common Crows that were constantly harassing them. Another Baven was heard and the call recorded in nearby Baldwinville.

Certainly the highlight of the month was a <u>Mountain Bluebiri</u> that care aboard a ship about 70 miles south southeast of Nantucket. J. Cherry of the "anoret Bird Observatory was able to get the specimen when the bird died of exhaustion. Another highlight was a <u>Northern Wheatear</u> on Cape Cod, a first spring record. R.H.S.

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Eastern Kingbird: 4/19-21,21 P'town, Canton(F. ...) 2, 1 1, max 12 (5/25) B.Nikula + v.o., D.Brown 5/3,4 on Lexington, "t.A. 5/17 P.I. J.Andrews, v.o. 20 BBC Fork-tailed Flycatcher 5/22 Wellesley 1 C.Quinlan No details. Great-crested Flycatcher: 4/26,27 Holbrook, Canton 1, 1 D.Brown GMNWR, Newburyport 5/9 1, 1 L.Taylor, J.Grugan 5/10 E.Middleboro,Dover Mt.A. 1, 1 K.Anderson, F.Hamlen 5/10 on max. 6 (5/25) v.o. Ash-throated Flycatcher: 5/18-24 Rowley l ph. A.Blaisdell, I.Giriunas Last seen on 5/24 by BBC-H.Weissberg. Eastern Phoebe: Willis, Newbury 3/14,17 1,1 B.Cassie, D.Alexander# 3/23 Sharon, IRWS, "iddleboro 1, 1, 1 5/29 8 locales 4/6 2 D.Clapp, R.Heil, D.Briggs 13 inds. v.o. 30 inds. 4/6 5/2 + 28 E.Middleboro 5/21 ''illis v.o. 5 eggs in nest, 5 yg.(b) 'K:Anderson 1 melanistic B.Cassie Yellow-bellied Flycatcher: 5/18,19 Newton, Mt.A. 1, 1 O.Komar.S.Higginbotham 5/20.25 Hingham, Nahant 1, 1 R.Campbell,R.Stymeist# 5/31 "t.A.,P.I. 11 O.Komar, J.Berry Acadian Flycatcher: 5/17,30 Manomet 1(b), 1(b) MBO staff Willow Flycatcher: 5/9,14,16 Newburyport,"ilton,Bolton 5/17,19 Lynnfield,G'NWR 1(early), 1, 2 J.Grugan, R. Veit, H. Merriman 1, 1 H.Wiggin#,L.Taylor 5/22,25 Newton, Lynnfield G'INWR; Lexington, P.I. 2, 6 O.Komar, R.Stymeist# 5/26:31 4; 4, 3-4 A.+N.Clayton; J.Andrews, J.Berry Alder Flycatcher: 5/11,19 "t.A., G'INWR 1, 1 M.Lynch#,L.Taylor 5/25 Lynnfield, Nahant 1, 1 R.Stymeist#,T.Lawrence# 5/26,31 Lexington,P.I. 1, 4-5 J.Andrews, J.Berry Least Flycatcher: 5/9 Manomet, Harvard 1(b), 1 MBO staff, H.Merriman 5/11,11-16 N.Scituate, Mt.A. 1-2, max.3(5/11) W.Petersen, v.o. 5/13 MNWS, Nahant 5, 3 R.Heil 5/14,16 6, 5 S.Peabody, Wayland R.Heil 5/14 P'town, 'ilton 5, 12 B.Nikula, R.Veit Eastern Wood Pewee:
 5/8,14
 on
 Squibnocket (".V.), "t.A.
 1, max. 4 (5/22)
 V.Laux#, v.o.

 5/15,18
 Sharon, Westport area
 1, 9
 D.Clapp, BBC
 Western Wood Pewee: 5/23 Chatham (Morris I.) 1 heard W.Bailey Olive-sided Flycatcher: 5/16; 17 P'town; P.I., E. "iddleboro 1; 1, 1 C.Goodrich; BBC, K.Anderson 5/18 "t.A., W.Newbury, "iddlesex Fells 3, 1, 1 v.o., B.Cassie, P.Roberts# 5/19,25,29 Lexington 1, 1, 1 J.Andrews 5/22:31 "anomet:Scituate,Annisquam 1, 1, 4 MBO;SSBC.H.Wiggin Horned Lark: 3/15 Nantucket 44 M.Litchfield,S.Perkins Tree Swallow: 3/21,23 Halifax, G'NWR 12, 3 G.Flaherty, P.Hallowell 60+, 150+ 3/30,31 G'NWR, Carver R.Stymeist#, R.Turner

 G'NWR, Carver
 607, 1907
 Alton and a strength of the strengt of the strength of the strength of the strength of th 4/5 4/12, 19 Bank Swallow: 4/5,12 N.Carver, Sudbury 1, 1 3, 50 W.Petersen, R.Forster# 4/13, 19 Nahant, Sudbury R.Stymeist, R.Forster thr. 'ay "illis 130 active nests B.Cassie 5/28 Newburyport 1200+ R.Heil Rough-winged Swallow: 4,3 1,12 4/13, 16 Wayland, Marshfield 4/19, 21 P.I., Milton R.Forster, B.Sorrie R.Emery#, D.Brown 5/17, 31 "anchester, "arshfield 7,5 BBC, SSBC

Barn Swallow: 1, 4 2, 5-6 'BO, ".Litchfield 4/6,11 Plymouth, Scituate W.Petersen, P.Parsons# 4/12 5/11 Hanover, P.I. W.Petersen N.Scituate 50+ Cliff Swallow: 1, 1 MBO, R.Heil 4/5 Plymouth, Hamilton W.Newbury, Essex P.I. H.Wiggin#, J.Nove# 4/26,27 1, 1 BBC 5/25 Purple Martin: 6, 2 1, 1 100 4/3,5 Middleboro, Nantucket D.Briggs, E.Andrews R.Heil, R.Emery# Hamilton, P.I. P.I. 4/5,19 BBC 5/25 Blue Jay: very low numbers fide K.nett V.Petersen#, BBC thr. 'ar. Essex Co. N.Scituate, Winchester 100 migr., 23 5/11 1500 in 1 hr., 40(b) G.Flaherty, 'BO Scituate, MBO 5/22 :4t.A. R.Stymeist 29, 30 migr. 5/22,23 ¹4.A 5/25 P.I. BBC (Olivers) 250 Northern Raven: O.Komar, ".+".McClellan 4/12 Ashburnham(Nutting Hill) R.Stymeist, R.Veit Excellent details from all observers. J.O'Regan 4/14 Baldwinville Call recorded. Fish Crow: R.Stymeist + v.o. D.Brown, W.Petersen# 'BO staff, B.Sorrie# B.Sorrie# Red-breasted Nuthatch: 3/23,4/6,22 IRWS,Boxford,'t.A. 1, 1, 1 5/3 FallRiver, E.''iddleboro 1, 1 5/26 Lakeville, Framingham 2, 1 R.Heil, R.Veit#, W.Drummond# R.Stymeist#,K.Anderson W.Petersen, R.Forster Brown Creeper: 3, 3 8, 4 3/26,28 Needham, Lynn O.Komar, R.Heil Canton, Boxford 4/3, 6 D.Brown, R.Veit# Boxford, Wakefield 5/3 nest w/eggs, pr.nesting R.Forster, C.Jackson# J/SBoxford, wakerieldHest w/eHouse Wren:4/21Rowley, 'arshfield, 'B01, 1, 14/26,27Fall River, Brookline1, 15/3Boxford, Winchester1, 15/11,16Winchester, Sharon5, 5 R.Alexander,B.Sorrie,'BO H.Willoughby#,H.Wiggin P.Alden#, N.King# BBC, D.Clapp Winter Wren:

 3/20,22
 Nantucket, Falmouth
 1, 1

 4/12-5/3
 Boxford S.F.
 1

 4/12,5/3
 D.T., 't.Wachusett
 1, 2

 4/24;26
 N.Scituate;FallRiver, 'arshfield
 1; 1, 1

 5/1
 H
 Willie Phillipter

S.Perkins, BBC V.Kovsky# + v.o. F.Bouchard, SSBC W.Petersen; BBC, SSBC 5/1.4 Millis, Phillipston 1, 2 B.Cassie, J.O'Regan Carolina Wren: 3/1-28 Brookline 1 D.Arvidson# 4/11 Nahant 1 J.Cort 5/23-26,25 M.V., Westport 20, 3 BBC(Drummond), J. !'arshall Long-billed "arsh Wren: 3/9 + 4/5 W.Harwich 2,2 B.Nikula, J.Aylward Nantucket, Milton 4/20,27 1, 1 S.Perkins, R.Veit# P.I., G'NWR 25,6 5/25,26 BBC, BBC Gray Catbird: 1,1 BBC, BBC MBO, C.Jackson 3/2,4/26 Milton, Fall River BO, Saugus 1, 1 5/3 1, max.15(5/14) 17, 106 150, 50 MNWS, Mt.A. Winchester, Millis 5/4,6 on C.Blasczak, v.o. 5/11,17 G.Gove#, B.Cassie 5/23-26,25 M.V., P.I. BBC, BBC Brown Thrasher: 1, 1 thr. 'ar., 3/2 Brookline, 'NWS Lexington, Holbrook R.Stymeist#, R.Heil 1, 1 1, 1 4/21,23 J.Andrews, D.Brown 4/24,25 P.I., "t.A M.McClellan, F. Bouchard# 5/11 "illis 27 B.Cassie American Robin: mid-'arch First arrivals in good numbers v.o. 1535 4/21 Neponset Valley D.Brown

Wood Thrush: 5/4,5 WBWS, G'NWR 1, 1 W.Bailey, L.Taylor F.Hamlen, v.o. Dover, "t.A. 5/6.7-25 1, max. 3 5/18,24 FallRiver area, Nahant 12, 6 BBC, BBC Hermit Thrush: 3/2, 16 NWS, Mt. A. 1, 1 R.Heil, P.Butler 4/17,22 7, 16 Lynn, "t.A. R.Heil, W.Drummond# E.''iddleboro ''t.A., Nahant thr."ay 1 singing K.Anderson 5/11,22 1, 1 v.o., M.Noland Swainson's Thrush: 5/10 on 't.A. 5/12,13 'BO, max.10(5/13 + 5/25) v.o. 1(b), 1 'BO, 'BO, Wollaston Brighton, S.Peabody 1, 6 Newburyport, Needhar 6, 6 "BO, 'R. Emery 5/14 O.Komar, R.Heil 5/17,18 W.Drummond#,J."arshall# Gray-cheeked Thrush: 5/11,14 't.A., S.Peabody 5/17,18 Nahant, 't.A. 5/24,25 Dover, Brookline 1, 1 v.o., R.Heil 3, 1 H.Wiggin#, L.Taylor 1, 3 F.Harlen, R.Stymeist# Veery: 4/20,22,27 P.I., Boxford, N.Scituate 1, 1, 1 D.Alexurler#, R.Brey#, D.Brown 5/3 Boxford, "iddleboro 1, 1 P.Alden#, D.Briggs 5/3 Boxford, "iddleboro P.Alden#, D.Briggs 5/5-25 Mt.A max.5(5/13) 5/14 Needham, "illis 4,9 J. "arshall, B.Cassie 5 Dedhan J. 'arshall Eastern Bluebird: 3/23,31 Woburn, Tyngsboro 1, 2 G.Gove, L.Files Apr. 7 locales 5/8,15 Carver, "iddleboro 12 inds. V.O. pr., 1 R.Harlu#, E.Akers# 'ountain Bluebird: 4/28 About 70 m. SSE Nantucket 1 m. J.Cherry. 40'08° 69°34' -- Bird came aboard and died. Specimen. J.Cherry-MBC Northern Wheatear: 5/21(?),23 Osterville, Chatha-1, 1 N.Proctor, B.Nikula# Blue-gray Gnatcatcher: 1, 2 4/11,12 'BO, P.I. "BO, BBC 1, max.4 1-2 inds. 4/13,16-30 N.Scituate, "t.A. ".Litchfield,R.Stymeist#+v.o. 4/20 on many locales 4/21 P'town ٧.0. 8 B.Nikula 47/21r. out47/21r. out47/21r. out47/21r. out47/21r. out5/9P'town, 'illis, G'NWR10, 1, 15/13 onBridgewater, 'anchester5/13 onBridgewater, 'anchester5/11 on, 20 onSharon, Lincolnpr.building nest, pr.at nestD.Clapp. R.Forster Golden-crowned Kinglet: 3/26,thr.Apr. Needham, "t.A 4, max.30(4/6) O.Komar#,R.Stymeist#+v.,. 4/17,30 Lynn, 'NWS 5/18 Fall River 5, 10 R.Heil, R.Heil BBC Ruby-crowned Kinglet: 3/3,8,24 S.Peabody, Bridgewater, Ipswich 2, 1, 1 R.Heil,SSBC,R.Alexander#

 4/5 on
 't.A.
 h-90(max. h/22).''

 4/6
 many locales
 small numbers

 4/17,20
 Lynn, P.I.
 45, 25

 4/20,21
 Gloucester, P'town
 26, 30

R.Stymeist#, v.o. .v.o. R.Heil, D.Alexander# J.Nove#, B.Nikula# 5/1-16,27 "t.A. max.25(5/5 + 5/7), 1 v.o., F.Bouchard P'town Boxford 5/1, 3 Water Pipit: 100, 20 B.Nikula, P.Alden# ater Pipit: <u>3/20</u> Nantucket <u>4/12</u> Concord (9 Acre Corner) 1 (excellent details) R.Veit 1 R.Veit.R.Stymeist,O.Komar Plymouth, Wayland 5/12,16 1, 2 . 90, R.Heil 5/24 Chatham 1 .Stymeist, B.Nikula Cedar Waxwing: J.Nove# . 3/19 Beverly . 5/24,25 Framinghar, Boxford 40 160, 100+ R.Forster, T.Lawrence# "igrating flocks. the second second Northern Shrike: 3/2,13 + 15 Ipswich, P.I. 1,1+1 3/23 G''NWR P.Hallowell Loggerhead Shrike: 3/23,4/17 Boxford, WBWS G.Soucy#, W.Bailey 1, 1

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VIREOS THROUGH WARBLERS

Spring rigration was slow with warbler watchers (hundreds of them!) at 't. Auburn Cemetery wondering if the migration would ever begin. There was no real early spring storm to bring up some of the southern strays that we have been getting accustomed to during the past few springs. Early, however, were a reported Red-eyed and a Yellowthroated Vireo at Provincetown on April 13. Only three Philadelphia Vireos were noted this spring as compared to six last year.

Six Prothonotary Warblers were reported with the bird in Needham being present into June and seen by many, many observers. Apparently this bird had an injured wing and could be found in the same area each day. Again, Golden-winged Warblers were hard to find with just ten reported. There was no great flight of Yellow-rumped Warblers reported this year. Last year on April 28, 600 were seen at Provincetown compared with a high of only 150 there this year; at "t. Auburn on "ay 5, 1979, 150 were seen but only 65 were noted this year on the same date.

Highlights include ⁴ Cerulean, 3 Yellow-throated, 5 Kentucky, and 8 Hooded warblers and 2 Yellow-breasted Chats. The big day at "t. Auburn Cemetery was May 13 when 24 species were recorded in good numbers; in fact, the week of "ay 11-18 was hailed as the best week in many, many years by a number of observers. R.H.S.

White-eved Vireo.

$5/26$ Plymouth, Yarmouth1, 2J.GruganYellow-throated Vireo:1, 1J.Aylward, B.Nikula# $4/13 + 5/1$ P'town1, 1G.Wilson, R.Forster# $5/18, 19$ Holliston, "t.A.2, 1T.Raymond, J.Berry#Solitary Vireo:4/19-20,24P.I., "t.A.1, 3BBC, F.Bouchard $4/22, 24$ IRWS, Boxford1, 3R.Emery#, R.Forster# $5/1-22$ 't.A6, 10+R.Heil, B.Nikula $5/1-22$ 't.A.max. $6(5/11)$ v.o. $5/13, 14$ 'MWS, P'town6, 10+R.Heil, T.Lawrence#Red-eyed Vireo:1B.Nikula $\frac{1}{13}$ P'town1B.Nikula $5/9, 10$ Wayland, P.I.1, 1R.Forster, G.d'Entremo $5/11, 11$ on Littleton, "t.A.1, 1R.Forster, G.d'Entremo $5/10, 14, 17$ Dover, "t.A., N.Scituate2, 1, 1F.Hamlen," Greenwald, G.WilWarbling Vireo:1, 1F.Richardson, D.Briggs $5/6$ Cambridge, Dedham2, 1L.Taylor, H.Robbins $5/1, 1-16$ Harvard, "t.A.7, 1-3H.'Merriman, v.o. $5/1, 20$ ''It.A.3, 1-3B.Cassie, F.Bouchard# $4/13, 20-30$ ''Itlis, ''t.A.3, 1-3B.Cassie, F.Bouchard# $5/7-28$ ''Iddlebor, ''Iton3, 8K.Anderson, R.Veit $5/7, 7-28$ ''Idlesex Fellsmax.20(5/14)C.Gove $5/1, 1, 14$ Millis, S.Peabody13, 40B.Cassie, R.Heil $5/14, 17$ P'town14, 15G.Hotz#, C.Jackso	White-eyed Vi	reo:		
5/10,11 + 14 Dover, "t.A.2, 1 + 1F.Hamlen, v.o. $5/13,17$ Nahant, P'town1, 2R.Heil, C.Goodrich $5/24$ P.I., 'larshfield,Rochester1, 1W.Drummond#, W.Petersen#,G." $5/26$ Plymouth, Yarmouth1, 2J.GruganYellow-throated Vireo:1, 1J.Aylward, B.Nikula# $5/15,18$ "liton, Wayland1, 1G.Wilson, R.Forster# $5/18,19$ Holliston, "t.A.2, 1T.Raymond, J.Berry#Solitary Vireo:*********************************	4/23	Manchester	1	P.Parsons
5/10,11 + 14 Dover, "t.A.2, 1 + 1F.Hamlen, v.o. $5/13,17$ Nahant, P'town1, 2R.Heil, C.Goodrich $5/24$ P.I., 'larshfield,Rochester1, 1W.Drummond#, W.Petersen#,G." $5/26$ Plymouth, Yarmouth1, 2J.GruganYellow-throated Vireo:1, 1J.Aylward, B.Nikula# $5/15,18$ "liton, Wayland1, 1G.Wilson, R.Forster# $5/18,19$ Holliston, "t.A.2, 1T.Raymond, J.Berry#Solitary Vireo:*********************************	5/4,6,12,13	NWS	1, 1, 1, 1	C.Blasczak + R.Heil
$\begin{array}{cccccccccccccccccccccccccccccccccccc$				F.Hamlen, v.o.
5/24P.I., 'arshfield, Rochester1, 1, 1W.Drummond#, W.Petersen#, G.M. $5/26$ Flymouth, Yarmouth1, 2J.GruganYellow-throated Vireo:1, 1J.Aylward, B.Nikula# $4/13 + 5/1$ P'town1, 1J.Aylward, B.Nikula# $5/15,18$ "ilton, Wayland1, 1G.Milson, R.Fogster# $5/16,19$ Holliston, 't.A.2, 1T.Raymond, J.Berry#Solitary Vireo:*********************************			1, 2	R.Heil, C.Goodrich
$5/26$ Plymouth, Yarmouth1, 2J.GruganYellow-throated Vireo:1, 1J.Aylward, B.Nikula# $5/15, 18$ "ilton, Wayland1, 1G.Wilson, R.Forster# $5/16, 19$ Holliston, "t.A.2, 1T.Raymond, J.Berry#Solitary Vireo:4/19-20,24P.I., "t.A.1, 3BBC, F.Bouchard $4/22, 24$ IRWS, Boxford1, 3R.Emery#, R.Forster# $5/1-22$ "t.A.6, 104R.Heil, B.Nikula $5/1-22$ "t.A.max. $6(5/11)$ v.o. $5/13, 14$ "MWS, P'town6, 104R.Heil, T.Lawrence#Red-eyed Vireo:1B.Nikula $\frac{1}{13}$ P'town1B.Nikula $5/9, 10$ Wayland, P.I.1, 1R.Forster, G.d'Entremo $5/17, 23-26$ "illis, ".V.16, 35B.Cassie, BBC(DrummondPhiladelphia Vireo:1, 1F.Hamlen,".Greenwald, G.Wil $\frac{1}{13}$ P'town1, 1F.Hamlen,".Greenwald, G.WilWarbling Vireo:1, 1F.Hamlen,".Greenwald, G.Wil $\frac{1}{17,20}$ Lincoln, Gloucester1, 1F.Richardson, D.Briggs $5/6$ Cambridge, Dedham2, 1L.Taylor, H.Robbins $5/1, 1, 16$ Harvard, Mt.A.7, 1-3H.Werriman, v.o. $5/1, 20-30$ "illis, "t.A.3, 1-3B.Cassie, F.Bouchard# $\frac{1}{13, 20-30}$ "illis, "t.A.3, 1-3B.Cassie, F.Bouchard# $\frac{1}{13, 20-30}$ "illis, "t.A.3, 1-3B.Cassie, F.Bouchard# $\frac{1}{13, 20-30}$ "illis, "t.A.3, 1-3 <t< td=""><td></td><td></td><td></td><td>W.Drummond#,W.Petersen#,G.Mock</td></t<>				W.Drummond#,W.Petersen#,G.Mock
Yellow-throated Vireo:1,1J.Aylward, B.Nikula# $4/13 + 5/1$ P'town1,1G.Wilson, R.Fogster# $5/15,16$ Milton, Wayland1,1G.Wilson, R.Fogster# $5/16,19$ Holliston, Mt.A.2,1T.Raymond, J.Berry#Solitary Vireo:1,3BBC, F.Bouchard $4/22,24$ IFWS, Boxford1,3R.Emery#, R.Forster# $5/1-22$ dt.A.max. $6(5/11)$ v.o. $5/13,14$ MWS, P'town6,104R.Heil, B.Nikula $5/14,25$ S.Peabody, Boxford10,2R.Heil, T.Lawrence#Red-eyed Vireo:1B.Nikula $4/13$ P'town1R.Forster, G.d'Entremo $5/11,11$ on Littleton, "t.A.1,1R.Forster, G.d'Entremo $5/11,22-26$ Millis, ".V.16,35B.Cassie, BEC(Drummond $5/11,11$ on Littleton, "t.A.1,1F.Hamlen,".Greenwald,G.WilWarbling Vireo:1,1F.Richardson,D.Briggs $5/6$ Cambridge, Dedham2,1LTaylor, H.Robbins $5/9,11-16$ Harvard, Mt.A.7,1-3H.Merriman, v.o. $5/14,19-21$ Needham, Woburn4,6-8O.Komar, G.GoveBlack-and-White Warbler:3,1-3B.Cassie, F.Bouchard# $4/13,20-30$ "illis, "t.A.3,1-3B.Cassie, F.Bouchard# $5/1-28$ "iddlesex Fellsmax.25(5/11)v.o. $5/3$ Fall River, Dartmouth16,10R.Stymeist#,D.Arvidso $5/1,1,14$ Millis, S.Peabody13,40B.Cassie, R.Heil $5/14,17$ P'town404,25B.Mikula $5/14,17$ Thromester, "elrose11,15G.Hotz#, C.Jackson#				
$4/13 + 5/1$ P'town1, 1J.Aylward, B.Nikula# $5/15,16$ Milton, Wayland1, 1G.Wilson, R.Forster# $5/16,19$ Holliston, "t.A.2, 1T.Raymond, J.Berry#Solitary Vireo: $4/19-20,2^{4}$ P.I., "t.A.1, 3BBC, F.Bouchard $4/22,2^{4}$ IRWS, Boxford1, 3R.Emery#, R.Forster# $5/1-22$ t.A.max. $6(5/11)$ v.o. $5/13,14$ YNWS, P'town6, 104R.Heil, B.Nikula $5/14,25$ S.Peabody, Boxford10, 2R.Heil, T.Lawrence#Red-eyed Vireo:1B.Nikula $5/14,25$ S.Peabody, Boxford1, 1R.Forster, G.d'Entremo $5/14,25$ S.Peabody, Boxford10, 2R.Heil, T.Lawrence#Red-eyed Vireo:1B.Nikula $5/14,25$ S.Peabody, Boxford1, 1R.Forster, G.d'Entremo $5/11,10$ Mayland, P.I.1, 1R.Forster, G.d'Entremo $5/11,110$ Mayland, P.I.1, 1R.Forster, G.d'Entremo $5/11,120$ Wayland, P.I.1, 1R.Forster, G.d'Entremo $5/11,120$ Lincoln, Gloucester1, 1F.Richardson, D.Briggs $5/6$ Cambridge, Dedham2, 1L.Taylor, H.Robbins $5/9,11-16$ Harvard, Mt.A.7, 1-3H.Merriman, v.o. $5/14,19-21$ Needham, Woburn4, 6-8O.Komar, G.GoveBlack-and-White Warbler:4/13,20-30"111is, "t.A. $4/13,20-30$ "111is, "t.A.3, 1-3B.Cassie, F.Bouchard# $4/21,27$ E.'Hiddleboro, "11ton </td <td></td> <td></td> <td>1995. (C</td> <td></td>			1995. (C	
5/15,18Milton, Wayland1, 1G.Wilson, R.Forster#5/18,19Holliston, Mt.A.2, 1T.Raymond, J.Berry#Solitary Vireo:4/19-20,24P.I., Mt.A.1, 3BBC, F.Bouchard4/22,24IRWS, Boxford1, 3R.Emery#, R.Forster#5/13,14MVMS, P'town6, 104R.Heil, B.Nikula5/14,25S.Peabody, Boxford10, 2R.Heil, T.Lawrence#Red-eyed Vireo:1B.Nikula5/17,23-26Millis, ".V.16, 35E.Cassie, BBC(Drummond7/11,11 on Littleton, "t.A.1, 1F.Forster, G.d'Entremo5/17,23-26Millis, ".V.16, 35E.Cassie, BBC(DrummondPhiladelphia Vireo:1, 1F.Richardson, D.Briggs5/6Cambridge, Dedham2, 1L.Taylor, H.Robbins5/9,11-16Harvard, Mt.A.7, 1-3H.Merriman, v.o.5/14,19-21Needham, Woburn4, 6-8O.Komar, G.GoveBlack-and-White Warbler:4/21,27E.'Hddleboro, 'Milton3, 8K.Anderson, R.Veit5/1-30"t.A.3, 1-3B.Cassie, F.Bouchard#4/21,27E.'Hddleboro, 'Milton3, 8K.Anderson, R.Veit5/1-30"t.A.max.25(5/11)v.o.5/1-30"t.A.max.25(5/11)v.o.5/1,1,14Millis, S.Peabody13, 40B.Cassie, R.Heil5/11,14Millis, S.Peabody13, 40B.Cassie, R.Heil5/17"anchester, Velrose11, 15G.Hotz#, C.Jackson#			1.1	J.Avlward, B.Nikula#
$5/18,19$ Holliston, "t.A.2, 1T.Raymond, J.Berry#Solitary Vireo: $4/19-20,24$ P.I., "t.A.1, 3BBC, F.Bouchard $4/22,24$ IRWS, Boxford1, 3R.Emery#, R.Forster# $5/1-22$ "t.A.max. $6(5/11)$ v.o. $5/13,14$ "MWS, P'town6, 10+R.Heil, B.Nikula $5/14,25$ S.Peabody, Boxford10, 2R.Heil, T.Lawrence#Red-eyed Vireo:1B.Nikula $\frac{1}{2}/9,10$ Wayland, P.I.1, 1R.Forster,G.d'Entremo $5/11,22-26$ "illis, ".V.16, 35B.Cassie,BBC(Drummond $5/17,23-26$ "illis, ".V.16, 35B.Cassie,BBC(DrummondPhiladelphia Vireo:1, 1F.Richardson,D.Briggs $5/6$ Cambridge, Dedham2, 1L.Taylor, H.Robbins $5/9,11-16$ Harvard, 'tt.A.7, 1-3H.Merriman, v.o. $5/14,19-21$ Needham, Woburn4, 6-8O.Komar, G.GoveBlack-and-White Warbler:4/13,20-30"illis, "t.A.3, 1-3B.Cassie, F.Bouchard# $4/21,27$ E.'iddleboro, "ilton3, 8K.Anderson, R.Veit $5/7-28$ "iddleboro, 'ilton3, 8K.Anderson, R.Veit $5/11,11$ Millis, S.Peabody13, 40B.Cassie, R.Heil $5/11,12$ Millis, S.Peabody13, 40B.Cassie, R.Heil $5/17$ "anchester, 'elrose11, 15G.Hotz#, C.Jackson#				
Solitary Vireo: 4/19-20,24 P.I., ''t.A. 4/22,24 IRWS, Boxford 5/1-22 't.A. 5/13,14 'MWS, P'town 5/14,25 S.Peabody, Boxford Red-eyed Vireo: 4/13 P'town 5/9,10 Wayland, P.I. 5/17,23-26 ''illis, ''.V. Philadelphia Vireo: 5/10,14,17 Dover, 't.A., N.Scituate 4/17,20 Lincoln, Gloucester 5/9,11-16 Harvard, 'lt.A. 5/9,11-16 Harvard, 'lt.A. 5/14,19-21 Needham, Woburn Black-and-White Warbler: 4/13,20-30 ''t.A. 5/14,19-21 Needham, ''.Chardson, R.Veit 5/1-30 ''t.A. 5/14,19-21 Needham, ''.Chardson, R.Veit 5/1-30 ''t.A. 5/14,19 P'town 5/14,19 P'town 5/14,19 P'town 5/14,19 P'town 5/14,19 P'town 5/14,19 P'town 5/14,19 P'town 5/14,17 P'town 5/17 ''anchester, 'elrose Prothonotary Warbler: 4/13, 20-30 ''L.A. 5/17 ''anchester, 'elrose Prothonotary Warbler:				
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			-, -	
$4/22,24$ IRWS, Boxford1, 3R.Emery#, R.Forster# $5/1-22$ 't.A.max. $6(5/11)$ v.o. $5/13,14$ 'MWS, P'town $6, 10+$ R.Heil, B.Nikula $5/14,25$ S.Peabody, Boxford10, 2R.Heil, T.Lawrence#Red-eyed Vireo: $\frac{1}{13}$ P'town1B.Nikula $5/9,10$ Wayland, P.I.1, 1R.Forster, G.d'Entremo $5/11,11$ Nittleton, ''t.A.1, 1R.Forster, G.d'Entremo $5/17,23-26$ ''illis, ''.V.16, 35B.Cassie, BBC(Drummond)Philadelphia Vireo: $5/10,14,17$ Dover, ''t.A., N.Scituate $2, 1, 1$ F.Hamlen,''.Greenwald,G.WilWarbling Vireo: $4/17,20$ Lincoln, Gloucester $1, 1$ F.Richardson,D.Briggs $5/6$ Cambridge, Dedham $2, 1$ L.Taylor, H.Robbins $5/9,11-16$ Harvard, ''t.A. $7, 1-3$ H.Merriman, v.o. $5/14,19-21$ Needham, Woburn $4, 6-8$ O.Komar, G.GoveBlack-and-White Warbler: $4/13,20-30$ ''illis, ''t.A. $3, 1-3$ B.Cassie, F.Bouchard# $4/21,27$ E.''iddleboro, ''ilton $3, 8$ K.Anderson, R.Veit $5/7-28$ ''iddlesex Fellsmax.20(5/11)v.o. $5/11,14$ Millis, S.Peabody $13, 40$ B.Cassie, R.Heil $5/14,17$ P'town $40+, 25$ B.Nikula $5/17$ ''anchester, ''elrose $11, 15$ G.Hotz#, C.Jackson#			1.3	BBC. F. Bouchard
5/1-22't.A.max. $6(5/11)$ v.o. $5/13,14$ 'NWS, P'town $6, 10+$ R.Heil, B.Nikula $5/13,14$ 'NWS, P'town $6, 10+$ R.Heil, T.Lawrence# $5/14,25$ S.Peabody, Boxford $10, 2$ R.Heil, T.Lawrence#Red-eyed Vireo: $1, 1$ B.Nikula $5/9,10$ Wayland, P.I. $1, 1$ R.Forster, G.d'Entremo $5/17,23-26$ 'illis, ''.V. $16, 35$ B.Cassie, BBC(DrummondPhiladelphia Vireo: $1, 1$ F.Hamlen,''.Greenwald, G.Wil $5/10,14,17$ Dover, 't.A., N.Scituate $2, 1, 1$ F.Hamlen,''.Greenwald, G.WilWarbling Vireo: $1, 1$ F.Richardson, D.Briggs $5/6$ Cambridge, Dedham $2, 1$ L.Taylor, H.Robbins $5/9,11-16$ Harvard, 'tt.A. $7, 1-3$ H.Merriman, v.o. $5/14,19-21$ Needham, Woburn $4, 6-8$ O.Komar, G.GoveBlack-and-White Warbler: $4/13,20-30$ <''tlnto				
5/13,14'MWS, P'town6, 10+R.Heil, B.Nikula5/14,25S.Peabody, Boxford10, 2R.Heil, T.Lawrence#Red-eyed Vireo:1B.Nikula $\frac{1}{13}$ P'town1B.Nikula5/9,10Wayland, P.I.1, 1R.Forster, G.d'Entremo5/11,11 onLittleton, 't.A.1, 1R.Forster, G.d'Entremo5/17,23-26'illis, ''.V.16, 35B.Cassie, BBC(Drummond)Philadelphia Vireo:1I.Taylor, H.Robbins5/10,14,17Dover, 't.A., N.Scituate2, 1I.Taylor, H.Robbins5/6Cambridge, Dedham2, 1L.Taylor, H.Robbins5/9,11-16Harvard, 'Mt.A.7, 1-3H.Merriman, v.o.5/14,19-21Needham, Woburn4, 6-8O.Komar, G.GoveBlack-and-WhiteWarbler:4/13,20-30<''illis, ''t.A.				
5/14,25S.Peabody, Boxford10, 2R.Heil, T.Lawrence#Red-eyed Vireo:1B.Nikula $5/9,10$ Wayland, P.I.1R.Forster,G.d'Entremo $5/11,11$ on Littleton, "t.A.1, 1R.Forster,G.d'Entremo $5/11,23-26$ "illis, ".V.16, 35B.Cassie,BBC(Drummond)Philadelphia Vireo:1 $5/10,14,17$ Dover, "t.A., N.Scituate2, 1, 1F.Hamlen,".Greenwald, G.WilWarbling Vireo: $4/17,20$ Lincoln, Gloucester1, 1F.Richardson, D.Briggs $5/6$ Cambridge, Dedham2, 1L.Taylor, H.Robbins $5/9,11-16$ Harvard, "t.A.7, 1-3H.Merriman, v.o. $5/14,19-21$ Needham, Woburn4, 6-8O.Komar, G.GoveBlack-and-White Warbler: $4/13,20-30$ "illis, "t.A $5/1-30$ "t.A $5/7-28$ "iddleboro, "ilton $5/11,14$ Millis, S.Peabody $5/14,17$ P'town $5/14,17$ P'town $5/17$ "anchester, 'elrose $5/17$ "a				
Red-eved Vireo:1B.Nikula $\frac{h/13}{5/9,10}$ Wayland, P.I.1, 1R.Forster, G.d'Entremo $5/11,11$ on Littleton, "t.A.1, 1R.Forster, G.d'Entremo $5/11,23-26$ "illis, ".V.16, 35B.Cassie, BBC(Drummond)Philadelphia Vireo:5/10,14,17Dover, "t.A., N.Scituate2, 1, 1F.Hamlen, ".Greenwald, G.WilWarbling Vireo:4/17,20Lincoln, Gloucester1, 1F.Richardson, D.Briggs $5/6$ Cambridge, Dedham2, 1L.Taylor, H.Robbins $5/9,11-16$ Harvard, "t.A.7, 1-3H.Merriman, v.o. $5/14,19-21$ Needham, Woburn4, 6-8O.Komar, G.GoveBlack-and-White Warbler:4/13,20-30"illis, "t.A.3, 1-3B.Cassie, F.Bouchard# $4/21,27$ E.'iddleboro, "ilton3, 8K.Anderson, R.Veit $5/7-28$ "iddlesex Fellsmax.20(5/14)G.Gove $5/11,14$ Millis, S.Peabody13, 40B.Cassie, R.Heil $5/17$ "anchester, 'elrose11, 15G.Hotz#, C.Jackson#Prothonotary Warbler:11, 15G.Hotz#, C.Jackson#				
$\frac{1}{13}$ P'town1B.Mikula $5/9,10$ Wayland, P.I.1, 1R.Forster, G.d'Entremo $5/11,11$ on Littleton, "t.A.1, 1max. $6(5/25)$ J.Baird, v.o. $5/17,23-26$ "illis, ".V.16, 35B.Cassie,BBC(Drummond)Philadelphia Vireo:5/10,14,17Dover, "t.A., N.Scituate2, 1, 1F.Hamlen,".Greenwald, G.WilWarbling Vireo:11F.Richardson, D.Briggs $5/6$ Cambridge, Dedham2, 1L.Taylor, H.Robbins $5/9,11-16$ Harvard, "t.A.7, 1-3H.Merriman, v.o. $5/14,19-21$ Needham, Woburn4, 6-8O.Komar, G.GoveBlack-and-White Warbler:4/13,20-30"illis, "t.A.3, 1-3B.Cassie, F.Bouchard# $4/21,27$ E.'iddleboro, "ilton3, 8K.Anderson, R.Veit $5/7-28$ "iddlesex Fellsmax.20(5/11)v.o. $5/11,14$ Millis, S.Peabody13, 40B.Cassie, R.Heil $5/14,17$ P'town40+, 25B.Nikula $5/17$ "anchester, 'elrose11, 15G.Hotz#, C.Jackson#			10, 2	Where, 1. Dawrencew
5/9,10Wayland, P.I.1, 1R.Forster,G.d'Entremo $5/11,11$ on Littleton, "t.A.1, max. $6(5/25)$ J.Baird, v.o. $5/17,23-26$ "fillis, ".V.16, 35B.Cassie,BEC(Drummond)Philadelphia Vireo: $5/10,14,17$ Dover, "t.A., N.Scituate2, 1, 1F.Hamlen, ".Greenwald, G.WilWarbling Vireo:1, 1F.Richardson, D.Briggs $4/17,20$ Lincoln, Gloucester1, 1F.Richardson, D.Briggs $5/6$ Cambridge, Dedham2, 1L.Taylor, H.Robbins $5/9,11-16$ Harvard, "t.A.7, 1-3H.Merriman, v.o. $5/14,19-21$ Needham, Woburn4, 6-8O.Komar, G.GoveBlack-and-White Warbler:43, 1-3B.Cassie, F.Bouchard# $4/21,27$ E.''iddleboro, ''ilton3, 8K.Anderson, R.Veit $5'1-30$ "t.A.max.25(5/11)v.o. $5/7-28$ "iddlesex Fellsmax.20(5/14)G.Gove $5/11,14$ Millis, S.Peabody13, 40B.Cassie, R.Heil $5/17$ "anchester, 'VelroseI1, 15G.Hotz#, C.Jackson#Prothonotary Warbler:11, 15G.Hotz#, C.Jackson#			3	B Nikula
5/11,11 on Littleton, "t.A.1, max. 6(5/25)J.Baird, v.o.5/17,23-26"illis, ".V.16, 35B.Cassie,BBC(DrummondPhiladelphia Vireo:1, 1F.Hamlen,".Greenwald,G.Wil5/10,14,17Dover, "t.A., N.Scituate2, 1, 1F.Hamlen,".Greenwald,G.WilWarbling Vireo:1, 1F.Richardson,D.Briggs4/17,20Lincoln, Gloucester1, 1F.Richardson,D.Briggs5/6Cambridge, Dedham2, 1L.Taylor, H.Robbins5/9,11-16Harvard, "It.A.7, 1-3H.Merriman, v.o.5/14,19-21Needham, Woburn4, 6-8O.Komar, G.GoveBlack-and-White Warbler:4, 1-33, 8K.Anderson, R.Veit4/13,20-30"illis, "t.A.3, 1-3B.Cassie, F.Bouchard#4/21,27E.'fiddleboro, "ilton3, 8K.Anderson, R.Veit5/1-30"t.A.max.25(5/11)v.o.5/72-28"iddlesex Fellsmax.20(5/14)G.Gove5/11,14Millis, S.Peabody13, 40B.Cassie, R.Heil5/14,17P'town40+, 25B.Nikula5/17"anchester, 'Velrose11, 15G.Hotz#, C.Jackson#Prothonotary Warbler:11, 15G.Hotz#, C.Jackson#				
5/17,23-26"illis, ".V.16,35B.Cassie,BBC(DrummondPhiladelphia Vireo:5/10,14,17Dover, "t.A., N.Scituate2, 1, 1F.Hamlen, ".Greenwald, G.WilWarbling Vireo:4/17,20Lincoln, Gloucester1, 1F.Richardson, D.Briggs5/6Cambridge, Dedham2, 1L.Taylor, H.Robbins5/9,11-16Harvard, "t.A.7, 1-3H.Merriman, v.o.5/14,19-21Needham, Woburn4, 6-8O.Komar, G.GoveBlack-and-White Warbler:4/13,20-30"illis, "t.A.3, 1-3B.Cassie, F.Bouchard#4/21,27E.'iiddleboro, "ilton3, 8K.Anderson, R.Veit5/1-30"t.A.max.25(5/11)v.o.5/728"iddlesex Fellsmax.20(5/14)G.Gove5/11,14Millis, S.Peabody13, 40B.Cassie, R.Heil5/14,17P'town40+, 25B.Nikula5/17,7"anchester, 'elrose11, 15G.Hotz#, C.Jackson#				
Philadelphia Vireo:5/10,14,17Dover,Mt.A.,N.Scituate2, 1, 1F.Hamlen,M.Greenwald,G.WilWarbling Vireo:1/17,20Lincoln, Gloucester1, 1F.Richardson,D.Briggs5/6Cambridge, Dedham2, 1L.Taylor, H.Robbins5/9,11-16Harvard, Mt.A.7, 1-3H.Merriman, v.o.5/14,19-21Needham, Woburn4, 6-8O.Komar, G.GoveBlack-and-White Warbler:4/13,20-30"illis, "t.A.3, 1-3B.Cassie, F.Bouchard#4/21,27E.'iddleboro, "ilton3, 8K.Anderson, R.Veit5/7-28"iddlesex Fellsmax.20(5/14)G.Gove5/3Fall River, Dartmouth18,10R.Stymeist#,D.Arvidso5/11,14Millis, S.Peabody13, 40B.Cassie, R.Heil5/17"anchester, 'elrose11, 15G.Hotz#, C.Jackson#Prothonotary Warbler:11, 15G.Hotz#, C.Jackson#				
5/10,14,17Dover,Mt.A.,N.Scituate2, 1, 1F.Hamlen,M.Greenwald,G.WillWarbling Vireo:1, 1F.Richardson,D.Briggs4/17,20Lincoln, Gloucester1, 1F.Richardson,D.Briggs5/6Cambridge, Dedham2, 1L.Taylor, H.Robbins5/9,11-16Harvard, Mt.A.7, 1-3H.Merriman, v.o.5/14,19-21Needham, Woburn4, 6-8O.Komar, G.GoveBlack-and-White Warbler:4/13,20-30"illis, "t.A.3, 1-3B.Cassie, F.Bouchard#4/21,27E.'fiddleboro, "ilton3, 8K.Anderson, R.Veit5/1-30"t.A.max.20(5/11)v.o.5/7-28"iddlesex Fellsmax.20(5/14)G.Gove5/11,14Millis, S.Peabody13, 40B.Cassie, R.Heil5/14,17P'town40+, 25B.Nikula5/17"anchester, 'elrose11, 15G.Hotz#, C.Jackson#Prothonotary Warbler:11, 15G.Hotz#, C.Jackson#			10, 35	B. Cassie, BBC(Drummond)
Warbling Vireo:1F.Richardson, D.Briggs4/17,20Lincoln, Gloucester1, 1F.Richardson, D.Briggs5/6Cambridge, Dedham2, 1L.Taylor, H.Robbins5/9,11-16Harvard, Mt.A.7, 1-3H.Merriman, v.o.5/14,19-21Needham, Woburn4, 6-8O.Komar, G.GoveBlack-and-White Warbler:4/13,20-30"iillis, "t.A.3, 1-3B.Cassie, F.Bouchard#4/21,27E.'iiddleboro, 'iilton3, 8K.Anderson, R.Veit5'1-30"t.A.max.25(5/11)v.o.5/7-28"iddlesex Fellsmax.20(5/14)G.Gove5/11,14Millis, S.Peabody13, 40B.Cassie, R.Heil5/14,17P'town40+, 25B.Nikula5/17"anchester, 'elrose11, 15G.Hotz#, C.Jackson#			0.1.1	P Hanlas H Grassmald C Wilson
4/17,20Lincoln, Gloucester1, 1F.Richardson, D.Briggs5/6Cambridge, Dedham2, 1L.Taylor, H.Robbins5/9,11-16Harvard, Mt.A.7, 1-3H.Merriman, v.o.5/14,19-21Needham, Woburn4, 6-8O.Komar, G.GoveBlack-and-White Warbler:4484/13,20-30"illis, "t.A.3, 1-3B.Cassie, F.Bouchard#4/21,27E.'fiddleboro, 'filton3, 8K.Anderson, R.Veit5/1-30"t.A.max.25(5/11)v.o.5/7-28"iddlesex Fellsmax.20(5/14)G.Gove5/11,14Millis, S.Peabody13, 40B.Cassie, R.Heil5/14,17P'town40+, 25B.Nikula5/17"anchester, 'elrose11, 15G.Hotz#, C.Jackson#			2, 1, 1	r.namien,Greenwald, G.wilson
5/6 Cambridge, Dedham 2, 1 L.Taylor, H.Robbins 5/9,11-16 Harvard, 'Mt.A. 7, 1-3 H.Merriman, v.o. 5/14,19-21 Needham, Woburn 4, 6-8 O.Komar, G.Gove Black-and-White Warbler: 4, 13,20-30 ''illis, ''t.A. 3, 1-3 B.Cassie, F.Bouchard# 4/21,27 E.'iddleboro, ''ilton 3, 8 K.Anderson, R.Veit 5/1-30 ''t.A. max.25(5/11) v.o. 5/7-28 ''iddlesex Fells max.20(5/14) G.Gove 5/3 Fall River, Dartmouth 18,10 R.Stymeist#, D.Arvidso 5/11,14 Millis, S.Peabody 13, 40 B.Cassie, R.Heil 5/17 ''anchester, 'elrose 11, 15 G.Hotz#, C.Jackson# Prothonotary Warbler: 11, 15 G.Hotz#, C.Jackson#				
5/9,11-16 Harvard, Mt.A. 7, 1-3 H.Merriman, v.o. 5/14,19-21 Needham, Woburn 4, 6-8 O.Komar, G.Gove Black-and-White Warbler: 4 3, 1-3 B.Cassie, F.Bouchard# 4/13,20-30 "illis, "t.A. 3, 1-3 B.Cassie, F.Bouchard# 4/21,27 E.'Middleboro, "ilton 3, 8 K.Anderson, R.Veit 5/1-30 "t.A. max.25(5/11) v.o. 5/7-28 "iddlesex Fells max.20(5/14) G.Gove 5/3 Fall River, Dartmouth 18,10 R.Stymeist#, D.Arvidso 5/11,14 Millis, S.Peabody 13, 40 B.Cassie, R.Heil 5/14,17 P'town 40+, 25 B.Nikula 5/17 "anchester, Yelrose 11, 15 G.Hotz#, C.Jackson# Prothonotary Warbler: B.Nikula B.Niteler: B.Niteler:				
5/14,19-21 Needham, Woburn 4, 6-8 O.Komar, G.Gove Black-and-White Warbler: 4/13,20-30 "illis, "t.A. 3, 1-3 B.Cassie, F.Bouchard# 4/13,20-30 "illis, "t.A. 3, 1-3 B.Cassie, F.Bouchard# 4/21,27 E.'iiddleboro, ''ilton 3, 8 K.Anderson, R.Veit 5/1-30 "t.A. max.25(5/11) v.o. 5/7-28 "iddlesex Fells max.20(5/14) G.Gove 5/3 Fall River, Dartmouth 18,10 R.Stymeist#, D.Arvidso 5/11,14 Millis, S.Peabody 13, 40 B.Cassie, R.Heil 5/14,17 P'town 40+, 25 B.Nikula 5/177< "anchester, 'elrose				
Black-and-White Warbler: 3, 1-3 B.Cassie, F.Bouchard# 4/13,20-30 "illis, "t.A. 3, 1-3 B.Cassie, F.Bouchard# 4/21,27 E.'fiddleboro, "ilton 3, 8 K.Anderson, R.Veit 5/1-30 "t.A. max.25(5/11) v.o. 5/7-28 "iddlesex Fells max.20(5/14) G.Gove 5/3 Fall River, Dartmouth 18,10 R.Stymeist#, D.Arvidso 5/11,14 Millis, S.Peabody 13, 40 B.Cassie, R.Heil 5/14,17 P'town 40+, 25 B.Nikula 5/17 "anchester, 'elrose 11, 15 G.Hotz#, C.Jackson#				
4/13,20-30 "illis, "t.A. 3, 1-3 B.Cassie, F.Bouchard# 4/21,27 E.'fiddleboro, "ilton 3, 8 K.Anderson, R.Veit 5'1-30 "t.A. max.25(5/11) v.o. 5'7-28 "iddlesex Fells max.20(5/14) G.Gove 5/3 Fall River, Dartmouth 18,10 R.Stymeist#, D.Arvidso 5/11,14 Millis, S.Peabody 13, 40 B.Cassie, R.Heil 5/14,17 P'town 40+, 25 B.Nikula 5/17 "anchester, 'elrose 11, 15 G.Hotz#, C.Jackson#			4, 6-8	O.Komar, G.Gove
4/21,27 E.'fiddleboro, 'filton 3, 8 K.Anderson, R.Veit 5/1-30 ''t.A. max.25(5/11) v.o. 5/7-28 ''iddlesex Fells max.20(5/14) G.Gove 5/3 Fall River, Dartmouth 18,10 R.Stymeist#, D.Arvidso 5/11,14 Millis, S.Peabody 13, 40 B.Cassie, R.Heil 5/14,17 P'town 40+, 25 B.Nikula 5/17 ''anchester, ''elrose 11, 15 G.Hotz#, C.Jackson#				
5'1-30 "t.A. max.25(5/11) v.o. 5/7-28 "iddlesex Fells max.20(5/14) G.Gove 5/3 Fall River, Dartmouth 18,10 R.Stymeist#,D.Arvidso 5/11,14 Millis, S.Peabody 13,40 B.Cassie, R.Heil 5/14,17 P'town 40+,25 B.Nikula 5/17 "anchester, "elrose 11,15 G.Hotz#, C.Jackson#				
5/7-28"iddlesex Fellsmax.20(5/14)G.Gove5/3Fall River, Dartmouth18,10R.Stymeist#, D.Arvidso5/11,14Millis, S.Peabody13, 40B.Cassie, R.Heil5/14,17P'town40+, 25B.Nikula5/17"anchester, Velrose11, 15G.Hotz#, C.Jackson#Prothonotary Warbler:		E. "iddleboro, "ilton		
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5/11,14Millis, S.Peabody13,40B.Cassie, R.Heil5/14,17P'town40+,25B.Nikula5/17"anchester, Velrose11,15G.Hotz#, C.Jackson#Prothonotary Warbler:11,15G.Hotz#, C.Jackson#				
5/14,17P'town40+,25B.Nikula5/17"anchester, "elrose11,15G.Hotz#, C.Jackson#Prothonotary Warbler:	5/3	Fall River, Dartmouth		
5/17 "anchester, "elrose 11, 15 G.Hotz#, C.Jackson# Prothonotary Warbler:	5/11,14	Millis, S.Peabody		B.Cassie, R.Heil
Prothonotary Warbler:	5/14,17	P'town	40+, 25	B.Nikula
	5/17	"anchester, Melrose	11, 15	G.Hotz#, C.Jackson#
	Prothonotary	Warbler:		
4/28-5/1 WBWS 1-2 W.Balley# + V.O.	4/28-5/1	WBWS	1-2	W.Bailey# + v.o.
5/7-8,11-31 ".V., Needham 1, 1 V.Laux#,J:"arshall#+v	5/7-8.11-31	".V., Needham	1, 1	V.Laux#,J.Marshall#+v.o.
				J.Cousins, J.Flaherty
Worm-eating Warbler:				
			1.2	I.Giriunas+v.o.,P.Roberts#+v.o.
5/11, 14 Scituate, Brighton 1, 1 G.Wilson, O.Komar				
				B,Cassie,F.Hamlen,R.Forster
5/14,15,19 'illis, Dover, Sharon 1, 1-2, 1 B,Cassie,F.Hamlen,R.Fors	3/14,15,19	TITTS, Dover, Snaron	1, 1-2, 1	D, Gassie, F. Hamiten, N. POISCEF

Golden-winged Warbler: Boxford; Millis, Milton W.Newbury, Holliston 1; 1, 1 5/3:14 R.Forster; B.Cassie, R. Veit 5/16,18 1+, 2 R. McHale, T. Raymond 5/18,25 Framingham, Wellesley 1, 1 R.Forster, K.Winkler 5/26 Lincoln, GMWR 1, 1 R.Forster, A.+N.Clayton Blue-winged Warbler: 5/3,5 Fall River, Lincoln 1, 1 R.Stymeist#,W.Harrington Lancaster, Middlesex Fells 3-4, 1 5/9 H.'lerriman, G.Gove 5/12,13,25 Mt. A. 5/15,25 Millis, W.Newbury 1, 2, 1 J.Berry# + v.o. 17, 15 B.Cassie, T.Lawrence# Brewster's Warbler (hybrid): 5/10-31 W.Newbury 1-2 G.d'Entremont# + v.o. Lawrence's Warbler (hybrid): 5/4+5 S.Natick (Broadmoor) 1 E.Smith 5/18.19 Carlisle 1 B.Valentine Tennessee Warbler: 4/30 (early) WBWS 1 C.Goodrich Mt.A. 5/11-28 max.12(5/25) v.o. 5/13,13-23 Needham,"iddlesex Fells 4, max.16(5/20) 8, 11 J.Marshall, G.Gove 'ilton, S.Peabody 5/14 R.Veit#, R.Heil P'town, 'elrose 5/17 20, 10 B.Nikula, C.Jackson# Orange-crowned Warbler: 5/9-11;13,14+17 Littleton; 14.A. 1; 1+ J.Baird; J.Grugan, R.Emery# R.Emery#,H.Wiggin# 5/15,17 Newburyport, Lynnfield 1, 1 Nashville Warbler: 5/1,6-25 "illis, "t.A. 1, max.6(3 dates) B.Cassie, v.o. 5/9;11,14 + 17 Lancaster; M.Fells 9; 1, 5, 2 H.Merriman; G.Gove 12, pr. breeding 5/14,16 S.Peabody, W.Bridgewater R.Heil, B.Sorrie# Northern Parula: 4/27,5/1-25 Mt.A. 1, max. 20(5/14) L.Taylor, v.o. "iddlesex Fells 5/2-21 max. 20(5/16) G.Gove 5/10,13 Lancaster, MWS 9, 22 H.Merriman, R.Heil P'town, S.Peabody 40+, 50+ 5/14 B.Nikula, R.Heil Yellow Warbler: 4/27,5/5 on "t.A. 1, max 10(5/14) L.Taylor, v.o. 5/3 S.Dartmouth, Newburyport, "B0 1, 1, 1 R.Stymeist#,P.Alden#,'MBO Wayland (Heard's Pond) max.7(5/11,23) 5/9 on R.Forster G'NWR, P'town 32, 25 35, 50 5/11,14 BBC, B.Nikula 5/17,25 P'town, P.I. B.Nikula, BBC "agnolia Warbler: P.I., 'NWS 5/3,4 1, 3 P.Alden#, C.Blasczak# 5/9 on,11-23 "tt.A., ".Fells max.18(5/14, max.25(5/14) v.o., G.Gove 'NWS, Nahant; Sharon 13, 10; 2 R.Heil; D.Clapp 5/13 5/14 S.Peabody, Needhar, "ilton 22, 7, 15 R.Heil, J. 'arshall, R. Veit 40+, 25+ 25, 14 P'town 5/14,17 B.Nikula 5/17,18 Newburyport, W.Newbury BBC Cape May Warbler: max.8(5/11, 13) v.o. 5/5-25 "t.A. 6, 3, 3 H.Merriman,C.Blasczak,J.Marshall 9, 40 R.Heil, B.Nikula 5/10,14,16 Lancaster,Lynn,Dedham 5/14,17 S.Peabody, P'town Black-throated Blue Warbler: N.Scituate (Glades) 4/27 1 D. Brown 5/3,4,5 Newburyport, Ipswich, Halifax 1, 1, 2 P.Alden#, J.Berry, D.Briggs "t.A. max.10(5/13,14+19) v.o. 5/5-25 "iddlesex Fells max.4(5/13, 21) 5/11-21 G. Gove S.Peabody, Newburyport 5, 10 R.Heil, BBC 5/14,17 Yellow-rumped Warbler: 1, 45 K.Anderson,".Litchfiels# 3/4,15 E. 'iddleboro, Nantucket 4/5,6 4/20,26 1/1-27 N.Carver, "t.A. SSBC, R.Stymeist 100, 2 P'town, Fall River 150, 10 W.Cornwell, BBC max.65+(5/5) v.o. 5/2-18 Wayland (Heard's Pond) 35 on 5/5, 48 on 5/9 R.Forster 5/3 Boxford, S.Dartmouth 5/3-16 Middlerey Div 15, 35 P.Alden#,R.Stymeist# 35 on 5/5, 30 on 5/11 G.Gove 300+, 150, 300 B.Nikula P'town 5/3,14,17 5/10 Lancaster 130 +H.Merriman Black-throated Green Warbler: 4/24,5/3 Boxford 1, 8-10 R.Forster#, J.Berry 1, max.18(5/18) J.Andrews, v.o. 5/3,5-26 Lexington, "t.A.

5/9-21 Middlesex Fells 5/10,14 Lancest max.16(5/14) G.Gove 6, 15 Lancaster, S.Peabody H."erriman, R.Heil Cerulean Warbler: 5/10;14,15,17 't.A.,: P'town Chathar 1; 1 ".Argue#; B.Nikula# 5/15,25 Attleboro, Chathar 1, 1 E.Keil, J.Alyward Blackburnian Warbler: 5/3,5 Boxford, Boston 5/7-31 "t.A. 2, 1, L.Crofoot, F.Bouchard max. 23(5/13) V.O. 5/12-23 Wavland (Heard's Pond) total 7 R.Forster "iddlesex Fells G.Gove max.8(5/16) 5/13-20 5/14 3, 12 6, 6 Lynn, S.Peabody C.Blasczak, R.Heil Dover, 'anchester 5/17 F.Hamlen, G.Hotz Yellow-throated Warbler: 5/10-11 Seekonk 5/11,16 "t.A., Scituate D.Emerson, C.Wood 1 D.Kurz, G.Bartlett 1, 1 Chestnut-sided Warbler: 5/7-25 'tt.A. max.11(5/13) V.O. max.7(5/14) C Cove 5/12,13 1(b), 2 Manomet, Sharon "BO, D.Clapp 5/17 Newburyport, "anchester 3. 6 BRC* Bay-breasted Warbler: 5/10-25 "t.A. max.30(5/18) v.o. 9+ 5/12-18 Wayland(Heard's Pond) R.Forster 5/13,14,19 "iddlesex Fells 6, 5, 12 8, 15 G.Gove 5/14,17 R.Heil, B.Nikula S.Peabody, P'town 5/17 Dover, Millis 20+, 5 H.Robbins, P.Cassie Blackpoll Warbler: 5/11-31 "t.A. max.20(5/25) V.O. "iddlesex Fells max.10(5/13 + 14) 5/13-23 G.Gove 5/17 Dover, Newburyport 5/23,25 Wayland, Dedhar 5/23-26 Oak Bluffs ('1.V.) 6, 5 F.Hamlen, BBC 11,6 R.Forster, J. "arshall BBC(Drummond) 25 Pine Warbler: 4/11 R.Forster#, MBO Lincoln, 'BO 1, 5 Lincoln, 'BO 1, 2 Wayland; P.I., 'anchester 1; 1, 1 't.A., ''iddleboro 1, 2 R.Forster#: BBC "t.A., "iddleboro 4/12,13 L.Crofoot, K.Anderson 30+, 1 11, 3 2, 4 4/13 P'town, Marshfield B.Nikula, B.Sorrie 4/18.27 Plymouth-Wareham, Lincoln B.Sorrie, R.Forster Fall River, Pocasset R.Stymeist#, P.Hallowell 5/3,4 1, 1+ BBC, J.Marshall BBC(Drummond) 5/8,17-25 Mt.A., Dedham 5/23-26 Chappaquiddick I. 12 Prairie Warbler: Fall River, WBWS, Newburyport 1, 1, 1 D. Arvidson, W. Bailey#, P. Alden# 5/3 Manomet, Saugus 5/9,10 "BO, C.Jackson# 1, 5 v.o., J.Andrews 5/11,12 "t.A., Lexington 4, 3 BBC 5/18,25 Fall River, W.Newbury 12, 8 BBC(Drummond) 5/23-26 M.V. 25 Palm Warbler: 3/23 'iddleboro 1 D.Briggs max.20(4/20),last on 5/13 v.o. 4/10-5/13 't.A. 25+, 25 15, 8 6, 12+ B.Nikula, R.Heil R.Forster, J.Andrews P.Alden#, B.Nikula 4/13,17 P'town, Lynn 4/21,25 Wayland, Lexington Boxford, P'town 5/3 Ovenbird: R.Stymeist#, P.Alden# K.Anderson, J.Andrews 2, 1 Fall River, P.I. 5/3 5/4,5 E."iddleboro, Lexington 5/5-30,7 "tt.A., Sharon 5/14,15,19,20 Middlesex Fells 4, 1 v.o., D.Clapp G.Gove max.6(5/15), 8 8 each day R.Heil 5/14 S.Peabody 22 Northern Waterthrush: 4/20,21 ".V., E.Middleboro 4/25,27 "illis, Canton 1, 1 3, 1 1, 1 V.Laux, K.Anderson B.Cassie, D.Brown 5/3 Boxford, Fall River J.Berry, R.Stymeist K.Anderson, J.Berry 5/4,5 E."iddleboro, Hamilton 2, 1 max.6(5/5), 11 5/5-25,11 Mt.A., Millis v.o., B.Cassie C.Goodrich, B.Nikula P'town 20, 20 5/13+17 5/14,15,28 Needham 8, 8, 2 J. "arshall R.Heil, G.Gove 5/15.15 on MNWS. "iddlesex Fells 12, 5

Louisiana Wat	orthruch		
	-23 WBWS, Dover	1, 1-2	C.Goodrich#,F.Hamlen
		max. 4	R.Emery# + v.o.
1/20 25 20	Boxford State Forest "edfield, Brookline	1, 1	H.Robbins, D.Arvidson#
4/20,25-50	'arshfield	1	D.Brown
5/5,13+14	"t.A., "illis	1, 1	P.Hallowell, B.Cassie
Kentucky Wart		~, +	1.1.4110/011, 0.000010
5/11.16	N.Scituate, P'town	1, 1	B.Smyth#, C.Goodrich#
	P.I., Holliston, Mt.A.		erts#,T.Raymond,R.Rabinow#
Nourning Warb		-, -,	
5/15.17	Needhar, P'town	1, 1	R.Forster, C.Goodrich
5/24,25	Annisquam, "t.A.	1, 1	H.Wiggin, v.o.
	MBO, Rockport	1(cat kill), 1(b)	BO, R.Norris
	Winchester; P.I., Ipswich		G.Gove;L.Crofoot,J.Berry
Common Yellow		1, 2, 1	0.0010, 0.00101000, 0.Derry
4/28	1B0	1(b)	*'BO
	G'INWR, 't.A.	4, max.13(5/15)	L.Taylor, v.o.
5/7 on	Middlesex Fells	max.12 (5/19+21)	G.Gove
5/9-29	Wayland(Heard's Pond)	max.9(5/11)	R.Forster
	P.I., "illis	10, 85	BBC, B.Cassie
	M.V., P.I.	50, 30	BBC, BBC
Yellow-breast		50, 50	220, 220
	Eastham, Nahant	1,1	B.Nikula, M.Noland
Hooded Warble		÷, ÷	officiality of those and
	Hingham, MBO	1, 1(b)	K.Groh, 'BO
	Lexington, WBWS	2, 1	J.Andrews, C.Goodrich
5/4.15	MBO, WBWS	1(b), 1	'BO, B.Nikula#
c.5/15	Needham	1	W.Allan + v.o.
Wilson's Warb		-	
5/10,11	Saugus, GMNWS	2,1	C.Jackson#, R.Vernon
5/11-30	Mt.A.	max.8(5/14)	v.o.
5/13,14	"anomet, Newton	3(1b), 6	MBO, O.Komar
Canada Warble		31.201,00	
5/11-30	't.A.	max.7(5/14)	v.o.
5/14	Needham, Middlesex Fells	5, 12	J. Marshall, G.Gove
5/19	Manomet	7(ъ)	*1B0
American Reds		1.5.0.7	
	Newburyport, 'it.A.	1, max.26(5/25)	P.Alden#, v.o.
	'iddlesex Fells	10, 25, 25	G.Gove
5/12,14	Needham	12, 16	J."arshall
	S.Peabody, Ipswich	30, 14	R.Heil, I.Giriunas#
	Wayland, P.I.	8, 25	R.Forster, BBC
JICDOCT	they are they are the	-, -,	

BLACKBIRDS "HROUGH SNOW BUN"ING

"wo adult Yellow-headed Blackbirds were reported this spring bringing the total of spring records to just 14 since 1973. Orchard Orioles continue to increase each year with at least 37 individuals noted as compared with 33 last year. The <u>Western</u> <u>Tanager</u> continued in Dover through early "ay; it had been reported at a feeder there since December. Seven Summer Tanagers were noted, way down from 15 reported last spring. Certainly the appearance of an adult male <u>Painted Bunting</u> at a feeder on Nantucket and one week later in Hull was most interesting. The last early record was of an adult male at a feeder in Hyannis through "arch 5, 1978.

A Dickcissel found on the Christmas Bird Count remained in Newton until April 8. Another holdover from the Marshfield CBC, a <u>Harris' Sparrow</u>, remained at Bruce Sorrie's feeder until May 1. Bruce was able to document the molt and follow this bird to nearly full adult plumage (see photograph). A <u>Golden-crowned Sparrow</u> was present at an Orleans feeder for a week; the last spring record was an adult at Mt. Auburn from April 25 through May 7, 1966. (See photograph.) R.H.S.

Bobolink:			
5/3,6	Newburyport, Plymouth	1, 1	P.Alden#, 'BO
5/7,11	S.Natick, Mt.A.	1, 18	F.Harlen, R.Stymeist
5/14	S.Peabody, Medfield	100+, 100+	R.Heil, J.Goldthwait
5/14	Newton, Needham	24, 11	0.Komar#
5/15,17	Sharon, "illis	26, 56	D.Clapp, B.Cassie
Eastern Mead	lowlark:		
3/16,24	Bridgewater, Wollaston	14, 31	BBC, G.Wilson

Mt.A. F.Bouchard# 4/25 5 Yellow-headed Blackbird: 3/16 Needham 4/5 Quincy R.Jones 1 ".Robinson 1 Red-winged Blackbird: early "arch First arrivals in small numbers. v.o. J.Baird 3/5 Sudbury 400 mid-"arch Good numbers reported throughout. v.o. J.Clancy, BBC 3/13,16 Needham, Bridgewater 1200+, 1700+ Orchard Oriole: 5/6,11,14 't.A. 5/6,9 on Lexington, Newton 5/12 on Woburn (Horn Pond) 2, 1, 1 1, 1-2 3 v.o. J.Andrews, O.Komar G.Gove G.Gove, R.Forster 5/13 Winchester, Framingham 1, 1 5/13 Winchester, Frankingham 5/13 on,14 Bridgewater, S.Peabody 5/15-29,15 on "anomet, Rowley 5/16,17 Wayland, "elrose 5/24 W.Newbury, Hingham 2,3 7(4ъ),2 3,1 W.Petersen, R.Heil MBO, v.o. R.Heil, C.Jackson R.Stymeist#, R.Campbell 2, 1 5/25,26 Truro, Natick 5/28,31 Hanny J.Grugan, E.Taylor# 1, 1 W.Petersen, N.+S.Osborne 1, 1 Hanover, Marshfield Northern Oriole: 4/30 "iddleboro 5/2-31 "t.A. D.Briggs 7 max.35(5/13) 8, 12+ V.O. Winchester, Ipswich G.Gove#, I.Giriunas# 5/11,18 Rusty Blackbird: 3/6,8 R.Campbell#, R.Stymeist# Braintree, Lincoln 25-30, 1 3/9,11 Wayland, S.Hanson R.Forster, S.+R.Higginbotham 2, 3 22, 18 E.Pyburn#, P.Roberts# Byfield, G'WWR 3/29,30 4/6.23 2, <u>139</u> 30, 1 R.Stymeist, R.Forster Mt.A., Framingham 5/1,9(last) "illis B.Cassie 25 L.^maylor,R.Stymeist 1(b-first since 1973) 'B0 "illis Ipswich River 25 5/4 "anomet 5/9 R.Forster Wayland Cormon Grackle: v.o. early 'arch First arrivals in small numbers, BBC(Davis) 3/6 Bridgewater 2300+ R.Veit# 4/6 Newburyport 1100 Brown-headed Cowbird: BBC(Davis) 3/16 Bridgewater 4/5,20 Tyngsboro, 600 "yngsboro, "arshfield 120, 200 R.Stymeist, N.+S.Osborne Western Canager: fide P.Hallowell Mar.-early "ay Dover 1 from winter Scarlet Tanager: 5/7,10 Haverhill, Dover K.Carpenter, F.Hamlen 1, 2 1, max.6(5/13) MBO, v.o. 5/11,11-25 'BO, "t.A. 5/11 N.Scituate, Winchester G.Wilson, G.Gove# 1,5 3, 3 C.Blasczak, L.Duca 5/12,14 Marblehead, Annisquam C.Blasczak, G.Flaherty 5/16,22 Lynn, Scituate Summer Tanager: 4/9-30 M.V. V.Laux 1 *BO MBO 1 P.Roberts#, J.Berry# 5/6.12 "t.A. 2, 1 5/17,24 Princeton, P'town T.Raymond, B.Nikula 1, 1 Rose-breasted Grosbeak: 4/11,13 on Manomet, outer Cape Cod 1 road kill, 4-5 'BO, B.Nikula P.Parsons. D.Emerson 4/15,16-21 "anchester, Taunton 1,2 4/17,21 Nantucket, Neponset 4/30 Marshfield, Cohasset E.Andrews, D.Brown 1, 1 1, 1 1/30 ".Corbett, "."cNeil W.Bailey, v.o. 2, max.12(5/11) 5/3,6-31 WBWS, "t.A. 1, 1, 1 8, 20 L.Taylor, J.Grugan, J.Kricher 5/7,9,10 G'NWR, P.I., Norfolk Winchester, Milton S.Peabody, Millis G.Gove#, R.Veit 5/11,14 16, 12 20, 20 R.Heil, B.Cassie 5/14,15 P'town 5/14+17 B.Nikula Indigo Bunting: 4/11,16 Rockport, "t.A. 2, 1 1, 4 L.Jodrey, F.Bouchard Orleans, Nantucket B.Sorrie#, P.Hallowell "anchester 1 P.Parsons 4/23 W.Bailey#, P.Hallowell 5/3,4 WBWS, Pocasset 1,3 v.o. 5/6-31 max.3(5/13) Mt.A.

5/12,13 5/15,24	W.Roxbury, Wayland Oak Bluffs, ''ilton	3, 2 8, 3	R.'ullins, D.Warner P.Carter, P.O'Neil#
Painted Bun	ting:		
5/7	Nantucket	1 m.	K. Mock
5/14	Hull	1 m.	Mrs.S.Gahn
	At feeder one day only;	photograph on file a	t M.A.S.
Dickcissel:			
3/1-4/8	Newton	1(from 12/16)	S.Denison#
4/1	P.I.	1	F.Bouchard#
Evening Gro			
3/12,22	Baldwinville, 'arshfield	35, 25	J.O'Regan, BBC
3/23,4/5	IRWS, Tyngsboro	30+, 50	R.Heil, R.Stymeist#
5/4	Baldwinville	2	J.O'Regan
		-	0.0 nogan
Purple Finc		40, 15	R.Heil, J.Andrews#
	IRWS, Lexington	40, 19	R. Hell, U. Andrews#
American Go		20	D U.d.1
3/29	a Beverly feeder	30	R.Heil
Rufous-side			
	3/31 Middleboro, Nahant	1, 1	F.+E.Cushman,D.Arvidson#
4/13,16		1, 2	M. McClellan, R.Stymeist#
5/23-26	1.V.	300	BBC(Drummond)
Savannah Sp	arrow-Ipswich race:		
thr. Mar.	P.I. (behind church)	max.4	R.Heil
3/29	Duxbury	2	W.Petersen
Savannah Sp			
	9 Squantum, P.I., Ipswich	45, 10, 12	D.Brown, 'BO, R.Heil
5/13,16	Newton, Wayland	35, 25	O.Komar, R.Heil
Grasshopper			
5/18,19	Dartmouth, Newburyport	1, 1	BBC(Davis), C.Leahy
		3, 1	BBC, R.Stymeist#
Sharp-taile	5 M.V., P.I.	5, 4	bbe, n.ocymersta
and the second	and the second	1	R.Veit, ".Litchfield
3/19	Nantucket	1	
4/26	Monomoy	1 (possible <u>A.c.al</u>	
5/10,24	Monomoy, Chatham	3, 5	R.Heil#, J.Grugan
5/25,30	S.Dartmouth, Rockport	11, 1(b)	J.'Marshall, R.Norris
Seaside Spa			
3/19	Nantucket	1	R.Veit, ".Litchfield
5/25	'onoroy	2 m. on territory	W.Petersen#
Vesper Spart	row:		
4/18,20	Plymouth, Salisbury	1, 1	B.Sorrie, F.Hamlen
4/21,25	Squantum, P.I.	1, 1	D.Brown, W.Petersen#
5/17,31	Plymouth, Wellfleet	3+, 3 m.	W.Petersen#, R.Stymeist#
Dark-eyed Ju			
5/5,10	Mt.A., Saugus	2,2	v.o., C.Jackson
5/16,22	'BO, Lexington	1(b), 1	'BO, J.Andrews
Tree Sparro			
4/6,12	Framingham, P.I.	20, 1	R.Forster, BPC(P.Campbell)
		20, 1	nitorster (
Chipping Spa		1/ Curry Trab	K.Anderson
3/6	E.Middleboro	1(from Feb.)	
	n P.I., "t.A.	2, max.15(4/30)	"."cClellan, v.o.
4/18,19	Plymouth, Wayland	1, 1	B.Sorrie, R.Forster
Field Sparro			
3/22,23	Woburn, S. Peabody	6,10	BBC, R.Heil
4/12,16	P.I., W.Roxbury	2,4	BBC, ".Greenwalt
4/18,26	Plymouth, Rowley	4, 1	B.Sorrie, BBC -
Harris' Span	rrow:		
Mar5/1	"arshfield	l(at feeder)	B.Sorrie# + v.o.
White-crowne	ed Sparrow:		
3/3 on	Danvers	1 ad. + 2 imm.	E.Pyburn
3/20,4/21		1, 1	S.Perkins, D.Brown
4/26-5/2,		1, 3	P.Alden#, v.o.
5/5-19	Rockport	22(b)	R.Norris
5/13-18	Wellfleet-P'town	10+	fide B.Nikula
		4(b)	'BO
5/17-23	"anomet		
5/17	"illis, "t.A., P.I.	5, 5, 12 B.C	assie,J.Berry#,R.Stymeist#
Golden-crown			March T. Thursday
4/18-24	Orleans	l ad.	Mrs.L.Brown + v.o.
White-throat			
5/5	S.Peabody	150	R.Heil
5/22.25	Mt.A., Nahant	1,2	v.o., ".Lawrence#

Fox Sparrow:			
3/15,25	Mt.A., Sharon	7, 4	R.Styneist, D.Clapp
	S.Peabody, Newton	6, 2	R.Heil, S.Denison
	E. "iddleboro, IRWS	1, 5	K.Anderson, R.Heil
Lincoln's Sp			
	P.I.; MWS, Weston	1; 1, 1	J.Grugan; C.Blasczak, R.Forster
	Manomet	21(b)	MBO
	Rockport	13(b)	R.Norris *
	WBWS, P'town	2, 2	C.Goodrich
5/13-21		4 inds.	V.O.
			R.Heil, O.Koyar, S.Higginbothar
	'NWS, Wayland	2.2	R.Heil
	11 locales	15 inds.	v.o.
Swamp Sparro			
	E.Middleboro, GMWR	6. 7	K.Anderson, R.Stymeist#
Song Sparrow			
	Sudbury Valley, Ipswich	38, 75	R.Forster, R.Heil
	W.Roxbury	50	11.Greenwalt
Lapland Long			
3/23		35-40	J.Grugan
5/10+16		1	B.Nikula
5/18	Westport	1	BBC(Davis)
Snow Bunting			
	Groveland, Rowley	120, 50	R.Veit, R.Alexander
	Squantum	2	W.Cornwell
	Plymouth, P'town	1, 2	MBO, W.Cornwell
1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	CONTRACTOR CONTRACTOR	CONSIGNATION OF THE PARTY OF TH	

List of Abbreviations

	adult banded breeding	Υ.V.	Island "artha's Vineyard "it. Auburn Cemetery, Cambridge
dk.	dark phase		Nantucket
	female		Plum Island
	immature		n Provincetown
	individual		Race Point, Provincetown
	light phase		Sandy Neck, Barnstable
	male		w. B. Stellwagen Bank
	aximum		Allen Bird Club
	rigrating	BBC	Brookline Bird Club
	photographed	BOE''	Bird Observer of Eastern Massachusetts
	plurage	CBC	Christmas Bird Count
	throughout	DFWS	Drumlin Farm Wildlife Sanctuary
v.o.	various observers	FBC	Forbush Bird Club
W	winter (e.g., 2W = second winter)	G* INWR	Great Meadows National Wildlife Refuge
yg.	young	IRWS	Ipswich River Wildlife Sanctuary
#	additional observers	"IAS	"assachusetts Audubon Society
A.A.	Arnold Arboretum	"BO	Manomet Bird Observatory
A.P.	Andrews Point, Rockport	MNWS	'arblehead Neck Wildlife Sanctuary
C.Cod	Cape Cod	SSBC	South Shore Bird Club
	Eastern Point, Gloucester First Encounter Beach, Eastham	TASL	"ake A Second Look (Boston Harbor proj- ect sponsored by BOE"')
F.H.	Fort Hill, Eastham	WBWS	Wellfleet Bay Wildlife Sanctuary
F.''.	Fowl "eadow, "ilton	W'WS	Wachusett "eadows Wildlife Sanctuary

TIDE CHART

12

Tide Table for Boston Harbor. Add one hour for Daylight Savings Time.

1		980		80 SEPT OCT. 1980		980	30 1980				OCT NOV.			1.	1980				
Mar	ning	BOSTON	Aft	rnoon	Mar	rning	BOSTON	Afte	rnoon	Mor	ning	BOSTON	Afte	rnoon	Mor	ning	BOSTON	Afte	78008
High Height Low Height Sunrise	# 04 9.2 1.54 -0.1 5.31	sunday 21	High Height Low Height Suntet	8 24 10.1 2 13 0.1 1,42	High Height Low Height Sunrise	1 38 10.9 7 43 -1.2 5 38	SUNDAY 28	High Height Law Height Sunset	1.59 11.5 8.17 1.5	High Height Low Height Sunrise	6 39 9.0 12 26 0.2 6 00	SUNDAY	High Height Low Height Summet	7 01 9.8 12 48 0.7 4 58	High Height Low Height Sunrise	12 25 11.0 6 29 -1,4 6 09	sunday 26	High Height Low Height Summer	12 43 11.9 7 03 . 2 2 4 47
High Height Low Height Sunrise	8 56 9.0 2 46 0.6 5.02	MONDAY	High Height Low Height Sunort	9 19 10,8 3 06 0,4 5,30	High Height Low Height Sunrise	2 32 10 3 8 36 -0.6 5 30	MONDAY 29	High Height Low Height Sunset	2 54 11.0 9 13 1.0	High Height Low Height Sunrise	7 35 9.6 1 23 -0.2 6 02	MONDAY	High Height Low Height Suntat	7 58 10.2 1 48 0.0 4 55	High Height Low Height Sunrise	1 18 10.6 7 20 -0.9 6 10	MONDAY	High Height Low Height Sunart	1 35 11.5 7 56 1.7 4 45
High Height Low Height Sunrise	9 48 10 5 3 36 1,2 1 32	TUESDAY	High Height Low Height Sunset	10 09 11 3 3 59 1 1 5 10	High Height Low Height Surrise	3 29 9 33 0 1	TUESDAY	High Height Low Height Sunset	3 52 101 10 13	High Height Low Height Suprise	8 30 10,3 2 18 -0,7 6 02	TUESDAY	High Height Law Height Sunset	8 53 10,7 2 44 -0,8 4 55	High Height Low Height Sunrise	2 12 10.1 8 13 -0.3 6 11	TUESDAY	High Height Low Height Sumet	2 29 10.9 8 51 1 1
High Height Low Height	10 36 111 4 25 11	wednesday	High Height Low Height	11 00 11 5 4 49 17 5 37	High Height Low Height Sionnse	4 32 9. 10 35	WEDNESDAY	High Height Low Height Sunset	4 53 11 11 17 11 17	High Height Low Height Sunrise	9 22 11.0 3 09 -1.2 5 03	WEDNESDAY	High Height Low Height Surget	9 48 11.0 3 37 -1.5 4 53	High Height Low Height Sunrise	3 10 9.5 9 10 0.3 6 12	wednesday	High Height Low Height Surret	3 28 10 3 9 48 0.5 4 41
Sunrise High Height Low Height	11 26 11.0 5 14 1.9	THURSDAY	Sunsel High Height Low Height	11 52 11 1 5 29	High Height Low Height	5 35 11 39	THURSDAY	High Height Low Height	5.58	High Height Low Height	10 12 11.6 4 01 -1.6	THURSDAY 23	High Height Low Height	10 41 11,2 4 28 -2.1	High Height Low Height	4 07 9 1 10 08 0.8	THURSDAY 30	High Height Low Height	4 27 9.7 19 48 0 1
Sunrise High Height Low Height	6 02 1.9	FRIDAY	Sunsti High Height Low Height	12 15 11 15 6 30 2.2 5 31	Sunrise High Height Low Height	6 42 (C) 12 22 (1)	FRIDAY	Sunset High Height Low Height	7 00	Sunrise High Height Low Height	6 05 11 02 12 0 4 49 -1.7 5 06	FRIDAY	Sonset High Height Low Height	4 52 11 33 11,2 5 20 -2.4 4 50	Sunrise High Height Low Height	6 13 5 11 6 8 11 12 1 1	FRIDAY	Sunset High Height Low Height	4 42 5 29 9 1 11 49 0 4 4 41
Surrise High Height Low Height Surrise	12 44 113 6 52 1.6 5.37	SATURDAY	Sunset High Height Low Height Sunset	106 11.8 7.22 .2.0 5.22	Suntite High Height Low Height Suntite	7 42 8 8 1 23 0.3	SATURDAY	Sunset High Height Low Height Sunset	8 01 17 4 1 42	Sunrise High Height Low Height Sunrise	5 30 11 52 12 5 39 - 1.7 6 07	saturday 25	Sunset High Height Low Height Sunset	\$ 11 2.4 4.49	Sunrise High Height Low Height Sunrise	6 14 6 11 8.7 6 16	SATURDAY	Sunset High Height Low Height Sunset	6 30 9.0 12 16 1.2 4 39
		8 ANI 1 How 7.					n. Add I Hour Fr		ETON evenue Tomer			980		202020			ee Add 1 Hour F		
Mor		BOSTON	Afte	enque		ning	BOSTON		rnoon	Mo	rning	BOSTON	Alt	etnoan		rning	BOSTON	G () ()	rendon
High Height Law Height	8 37 9.0 2 19 0.3	SUNDAY	High Height Low Height Sunsat	8 51 91 2 37 0.7	High Height Low Height Suprise	12.51 1.) 6.54	sunday 12	High Height Low Height Sunset	1 03	High Height Low Height	7 10	SUNDAY	High Height Low Height Sumet	7 31 9 1 1 15	High Height Low Height Sunrise	11 56 4 7 5 47 3 4	sunday 9	High Height Low Height Sumet	6 14
Sunrite High Height Low Height Suntise	9 22 0.2 3 05 0.2	MONDAY	High Height Low Height Suntet	9 39 3 23	High Height Low Height Suprise	1 30 7 33	MONDAY 13	High Height Low Height Sunset	1 43 1 43 8 01	High Height Low Height Sunrise	8 02	MONDAY 3	High Hiright Low Height Sunset	8 21 2 08	High Height Low Height Survise	12 25 0 1 6 25	10	High Height Low Height Sunst	12 36 6 55
High Height Low Height Supres	10 02 95 3 46 0 1 5 40	TUESDAY	High Height Low Height Sumet	10 19 4 05	High Height Law Height Sonrise	2 15 8 15	TUESDAY	High Height Low Height Sumet	2 25 - 1 B 47	High Height Low Height Suprise	8 48 5.2 2 31	TUESDAY	High Height Low Height Sunset	9 08 9.0 2 56 1 1	High Height Low Height Suprise	1 06	TUESDAY	High Height Low Height Sunset	1 46 7 37 5 -
High Height Low Height Sunrise	10 37 9,6 4 25 0,0 5,52	WEDNESDAY	High Height Low Height Suitsat	10 58 37 4 45 0 0 4 1	High Height Low Height Sunnse	2 59 9 02	wednesday 15	High Height Low Height Sunset	3 13 9 37	High Height Low Height Sunnte	9 27 + 3 12 0.1	wednesday 5	High Height Low Height Sunset	6 49 9 1 3 38 0.7 4 34	High Height Low Height Sunrise	1 48 1 11 7 48 0 11 1 - 30	wednesday 12	r High Height Low Height Suntet	1 59 8 22 4 1 1 1/1
High Height Low Height	11 13 9.8 5 02 6.48	THURSDAY	High Height Low Height Sunset	11 35 0.6 5 22 0.7	High Haight Law Height Sumise	3 50 9 53	THURSDAY 16	High Height Low Height Succel	4 03 10 30	High Height Low Height Sunrise	10 06 9.7 3 52 0.1 6 22	THURSDAY 6	High Height Low Height Sumet	10 30 9.2 4 17 0.1 4 30	High Height Low Height Suprise	2 33 8 36 1.0 6 32	THURSDAY 13	High Height Low Height Sunset	2 46 9 09 0 0
Summe High Height Low Height	11 50 9.8 5 39 0.1 5.49	FRIDAY 10	High Height Low Height Summet	6 00 0 7 1 16	High Height Low Height Sunrite	4 43 10 48	FRIDAY	High Height Low Height Sunset	5 01 11 29	High Height Low Height Sunrise	10 42 9 8 4 31 0 4 6 23	FRIDAY	High Height Low Height Sunset	11 08 9.2 4.57 0.3 4.3%	High Height Low Height Suorise	3 23 8.6 9 27 1 1 6 32	FRIDAY	High Height Low Height Sunset	3 37 9.4 10 03 9.1 1 14
Sunrisk High Height Low Height	12 12 9.5 6 16 0.2 5.51	SATURDAY	High Height Low Height Sunset	12 26 9,6 6 39 0,7	High Height Low Height Sunrist	5 41 IL 1 11 48 1 1	saturday 18	High Height Low Height Sunset	6 01 1.4	High Height Low Height Sunrise	11 19 9.9 5 08 0.3 6 25	SATURDAY 8	High Height Low Height Sunset	11 46 9.2 5 35 -0.4 4 31	High Height Low Height Suncise	4 18 H.7 10 22 1.0 6 34	saturday 15	High Height Low Height Sunset	4 35 9,4 10 59 1,7 4 27
Suprise																			

Tidal differences from Boston High Tide

Newburyport		31 minutes later
Scituate		5 minutes earlier
Plymouth		5 minutes later
Chatham (outside)		30 minutes later
(inside)	l hr.	54 minutes later
New Bedford	3 hrs,	15 minutes earlier

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