

BIRD OBSERVER



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BIRD OBSERVER

• a bimonthly journal •

To enhance understanding, observation,
and enjoyment of birds.

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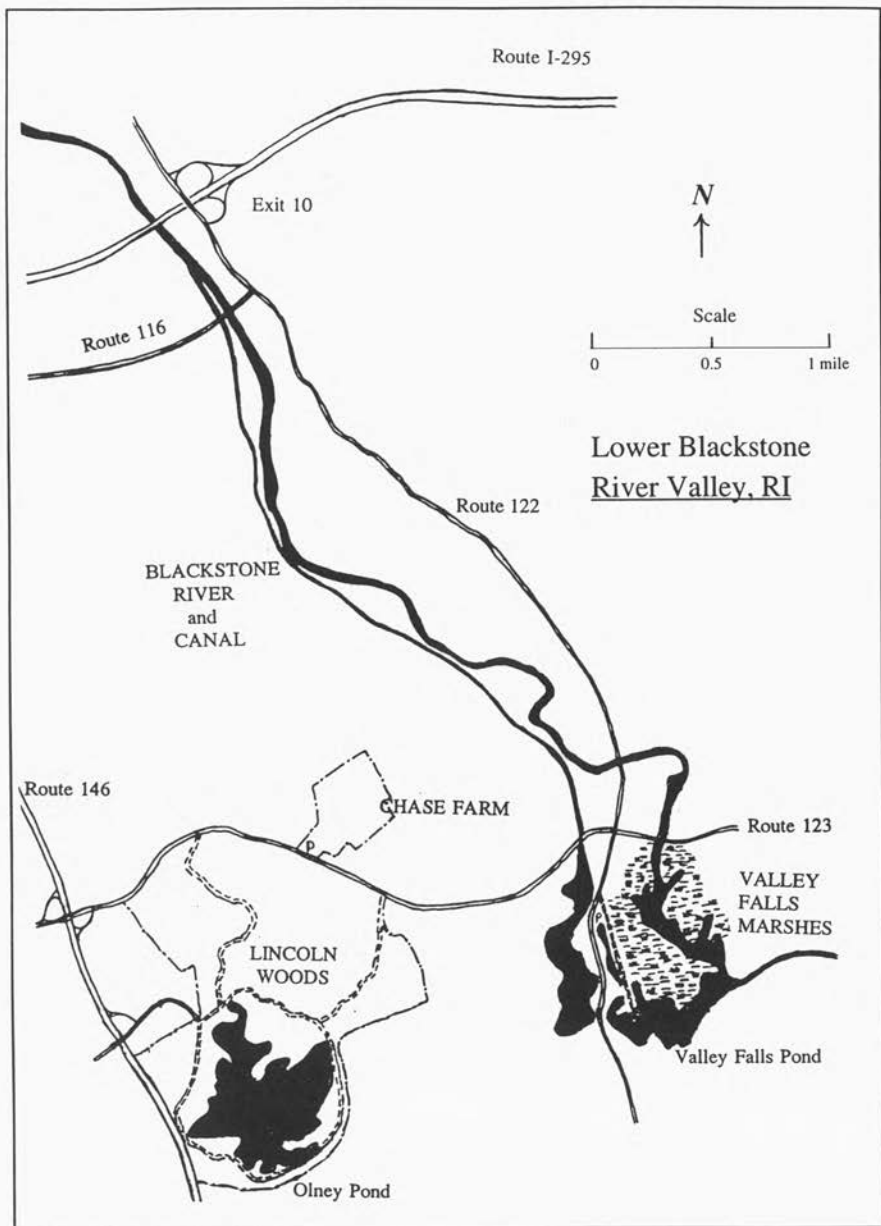
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BIRDING THE LOWER BLACKSTONE RIVER VALLEY, RHODE ISLAND

by Rick Enser

The Blackstone River originates beneath the streets of Worcester, Massachusetts, at the junction of two waterways, the Middle River and Mill Brook. From this concrete origin the Blackstone flows southeast forty-six miles to Pawtucket, Rhode Island, where it surges over the twenty-three-foot-high Pawtucket Falls into the Seekonk River, a tidal stretch that continues south to Narragansett Bay. In the early days of European settlement in the region, the Blackstone River provided a logical geographic pathway into central New England for transportation and commerce. It later provided a stage for the birthplace of the American Industrial Revolution, when Samuel Slater established the first water-powered cotton mill on the banks of the Blackstone at Pawtucket in 1793. Soon a series of mill villages arose at points along the river's length, where dams could be constructed to provide a source of power.

A consequence of the growth of these industrial centers was a rise in the amounts of sewage and industrial effluent discharged into the river, and by 1880 the Blackstone was considered "the hardest working river" in the region and one of the most thoroughly exploited and polluted rivers in America. In recent decades a considerable effort has been expended to restore some of the Blackstone's original water quality. Construction of wastewater treatment plants, legal restrictions on pollutant discharges, and wetlands protection laws have combined to significantly improve the integrity of this river. Based on my personal experience of growing up during the 1960s within a short walk of this river that was my playground, the primary evidence that fish actually inhabited the Blackstone were periodic die-offs of carp, a fish renowned for its ability to inhabit oxygen-depleted waters. More encouraging are surveys conducted in 1994 by the Rhode Island Division of Fish and Wildlife that uncovered fifteen species of fish, including white perch, fallfish, and tessellated darter. Moreover, the Division has been studying the potential for restoring an anadromous fishery to the Blackstone that would initially focus on the blueback herring and later other species including salmon.

The original mill villages grew into major urban centers, and industrial development expanded onto the best available land, the floodplain of the Blackstone. Marshes and other lowlands that normally absorbed the swollen waters of periodic floods were filled and converted to impervious surfaces. Until the passage of wetlands protection legislation in Rhode Island in the 1970s, uses included several municipal dumps, a regional landfill, shopping malls, warehouses, factories, and a drive-in theater. Despite this loss of wetland habitat, a string of riverine marshes has survived along the river's length that

continues to provide valuable wildlife habitat within the highly urbanized backdrop of the Blackstone River Valley. These wetlands occur primarily on the upstream side of dams where the calmer impounded waters support the growth of cattails and other emergent plants within shallow coves and along the fringe of the river.

The size of most of these marshes is dictated by the width of the floodplain, which along most of the river's length is relatively narrow. In Rhode Island the floodplain gradually widens to more than a half-mile. Then suddenly at the village of Valley Falls in the town of Cumberland the river is constricted within a narrow channel of resistant bedrock. A dam has been situated at this site since the early 1800s, and behind it formed the fifty-acre Valley Falls Pond and an associated 200 acres of cattail marshes, shrub swamps, and grassy floodplain meadows. On the margins of the river in this location are stands of willow, maple, and green ash that often reach twenty-four inches or more in diameter, and the cavities formed in these trees when large branches break off provide nesting and roosting sites for Eastern Screech Owl and Wood Duck.

The **Valley Falls Marshes** are an accessible area to seek out such typical marsh-nesting birds as Green Heron, Least Bittern, Virginia Rail, Sora, Willow Flycatcher, and Marsh Wren. The American Bittern nested here until the early 1970s, but in recent years this species has seriously declined in the region and is currently believed to nest in the state only on Block Island.

To reach the Valley Falls Marshes, take exit 10 off Route 295 onto Route 122. Approximately 3.3 miles from this exit, Route 122 intersects with Route 123. Continue on Route 122 south another 0.3 mile, where the road dips into a valley, at the bottom of which is a left turn onto a dirt road leading to a little league ball field. During warmer months when the field is being used, a gate on the main road remains open. However, during the off-season the gate is closed to prevent illegal dumping, and it is necessary to park on the shoulder of the main road where there is room for three or four vehicles.

This area is also known as the Lonsdale Marshes, or simply Lonsdale, which is the name of the village in the town of Lincoln where the dirt road entrance is located. (Although the area is still referred to as "Lonsdale" in the monthly "Field Notes of Rhode Island Birds" published by the Audubon Society of Rhode Island, the recent rise of tourism in the Blackstone River Valley has resulted in "Valley Falls Marshes" being used more often, primarily because a tour boat docks at this village.) During the 1930s this area was intensively birded by Alfred E. Eynon, who later moved to New Jersey where he served a brief term as President of the Uner Ornithological Society. Mr. Eynon documented several of his observations at Lonsdale in the *Auk*, including the first twentieth century record of Ring-necked Duck in Rhode Island (1933), the first breeding record of Rough-winged Swallow in northern Rhode Island (1935), and an unusual record of Iceland Gull during the winter of 1934.

At the parking area a wide panorama of the Blackstone River floodplain is visible from the road. Cattail marshes and open pools of water can be viewed from the east side of the road, and the grassy floodplain beyond can be scanned to the edge of the river, about 200 yards from this point. In spring and summer these marshes abound with Swamp Sparrows, Red-winged Blackbirds, and Common Yellowthroats, and with patience both Virginia Rail and Sora will be heard calling. The road is lined with a variety of tall deciduous trees, where Warbling Vireo, Yellow Warbler, and Northern Oriole nest. Orchard Oriole has been occasionally observed but has not been found nesting.

The open water of Valley Falls Pond is reached by walking the dirt road leading south from the ball field. This raised roadbed was constructed in the early 1900s as part of the ill-fated Grand Trunk Railroad, a line which was envisioned to connect Providence with central Massachusetts at the town of Palmer, and then proceed farther north to Montreal. Because the major financial backer for this rail line perished on the *Titanic*, the project was never completed, and the bed laid across the Valley Falls Marshes was never used for its intended purpose. However, because the roadway had been constructed at an elevation above most floods, it provided access onto the marshes allowing local communities to use the area for municipal dumping. This practice continued until the 1950s, when waste disposal was transferred to larger regional landfills. Today the road is only rarely used by official vehicles and is open for walking onto land owned by the town and state.

Currently there are few indications of this public ownership. The town maintains an emergency well site adjacent to the ball field, and occasionally they use open areas near the entrance to store mulch and other organic debris. The Rhode Island Division of Fish and Wildlife does not actively manage its portion of the area. An Osprey nesting pole erected during the winter of 1996 was accomplished by a local utility company. Although the Osprey is often seen here during migration periods, it was never known to nest in this part of the state historically.

On early spring mornings the trees along the roadway may be filled with passerines that use the Blackstone River Valley as a migratory pathway. Regularly seen in the spring are Northern Parula, Palm Warbler, Northern Waterthrush, and Wilson's Warbler, but most other warbler species have also been seen here. In the fall Orange-crowned Warbler and White-crowned Sparrow are occasional.

Less than half a mile from the ball field is the shore of Valley Falls Pond and the best opportunity for viewing waterfowl. In spring and fall the most common species include Pied-billed Grebe, Canada Goose, Mallard, American Black Duck, Green-winged and Blue-winged teal, Wood Duck, American Wigeon, Gadwall (records of fifty to sixty birds in recent years), Ring-necked Duck, Hooded Merganser, Common Merganser, and American Coot. Northern

Pintail and Ruddy Duck are occasional. Other species certain to be present near open water throughout most of the year are Great Blue Heron, Ring-billed Gull, and Belted Kingfisher. During summer the pond attracts aerial feeders including Northern Rough-winged Swallow (a species that nests in burrows excavated in the riverbanks), Bank Swallow, and Common Nighthawk, which nests on the rooftops of buildings in nearby urban areas.

There are no designated trails leading off the roadway onto the marsh, but those equipped with appropriate foot gear and clothing may venture out to areas not visible from the road. In these secluded spots are pools vegetated with dense stands of emergent plants that provide additional habitat for migrants and nesters. During migration, shorebirds typically found here include Killdeer, Greater Yellowlegs, Solitary Sandpiper (spring only), Spotted Sandpiper (nesting), Least Sandpiper (spring only), Pectoral Sandpiper, and Common Snipe. American Woodcocks nest in shrubby thickets and perform courtship flights from the drier grassy floodplains.

Urbanization surrounds the Valley Falls Marshes, and a cacophony of automobile traffic, sirens, and even the garbled voices of an outdoor intercom are commonplace. Hence early morning is the best time to visit. But even within this context the Valley Falls Marshes serve as a true wildlife refuge. The area has been most intensively birded during the past two decades, and within this period the list of species observed has included Tricolored Heron, Snowy Egret, Great Egret, Glossy Ibis, Brant, Snow Goose, Rough-legged Hawk, Peregrine Falcon, Common Tern, Short-eared Owl, Long-eared Owl, Barred Owl, Red-headed Woodpecker, Pileated Woodpecker, Western Kingbird, Northern Shrike, Sharp-tailed Sparrow, and Lincoln's Sparrow. It is not unusual to tally more than fifty species of birds during a morning in the spring or fall when many migrants are present.

The Valley Falls Marshes are an area that can also be birded by canoe. At present the best access is located along Route 123 (known as John Street in this section), where this road crosses the Blackstone, about 100 yards east of the Route 122/123 intersection. Parking is available at the blocked entrance to the now-abandoned Lonsdale Drive-in Theater, and the river can be reached by walking down the slope under the bridge. A more user-friendly canoe launch for this location is planned to be open within a few years.

Canoeing the Valley Falls Marshes allows one to approach the nest sites of several species, such as the burrowing Northern Rough-winged Swallows and Belted Kingfishers, and it is common to observe muskrats and large snapping turtles (with shell diameters of two-plus feet) cruising in the river. However, also evident in this urban location are the many exotic species of plants and animals that are starting to overwhelm the area. Purple loosestrife is beginning to usurp the native vegetation in shallow marshes and bays, and the Mute Swan, which has invaded the area only within the past decade, now numbers five or six

nesting pairs. Alas, the carp remains the ruling fish in the shallow turbid waters of Valley Falls Pond, attaining lengths of two to three feet. It can be disconcerting for the canoeist when one of these large fish swirls away with a loud splash just ahead of the boat.

The entire Blackstone River Valley is currently undergoing development as a National Heritage Corridor, a program administered by a consortium of public and private groups overseen by the National Park Service. Major elements planned for the Valley include a bikeway, canoe launches and portages, and other tourist amenities. Additional information on current and planned facilities and programs can be obtained by contacting the Blackstone River Valley National Heritage Corridor Commission, One Depot Square, Woonsocket, Rhode Island 02985 (401-762-0250). Ask for the National Park Service-produced map and guide to the entire Blackstone Valley in Massachusetts and Rhode Island, and also the *Canoe Guide for the Blackstone River*. The latter describes put-in locations and canoeing highlights for each segment of the river from Worcester all the way to Pawtucket. You can also get information at visitors' centers located at Slater Mill in Pawtucket, Rhode Island, or at River Bend Farm in Uxbridge, Massachusetts.

Within a few miles of the Valley Falls Marshes are several other easily accessed birding locations. **Lincoln Woods** is the largest state park in northeastern Rhode Island and is managed by the Rhode Island Department of Environmental Management. This park is reached by following Route 123 approximately 1.1 mile west of the intersection with Route 122. A modest fee is collected during summer months, but in other seasons entrance to the park is free. The primarily deciduous forest at Lincoln Woods is habitat for such typical nesters as Broad-winged Hawk, Great-crested Flycatcher, Eastern Wood-pewee, Yellow-throated Vireo, Worm-eating Warbler (rare), Ovenbird, Scarlet Tanager, and Rose-breasted Grosbeak. During the 1980s this park was noted as one of the first locations in northern Rhode Island for finding the Red-bellied Woodpecker, and today this bird is a common resident found throughout the park where it appears to outnumber all other species of woodpeckers. Also within the park is the 133-acre **Olney Pond** which attracts migrating waterfowl. The most common species are Mallard, Ring-necked Duck, and Common Merganser, but many others have been found here, including Wood Duck, American Wigeon, and Redhead.

Another 0.4 mile west of the entrance to Lincoln Woods on Route 123 is the **Chase Farm**, over 150 acres of town-owned farmland protected as public open space in the late 1980s. A parking lot (no fee required) for this area is located at the restored Hannaway Blacksmith Shop, where a trail leads out across extensive hayfields intersected by shrubby hedgerows. Typical grassland nesting birds found here include Bobolink, Eastern Meadowlark, and Savannah Sparrow. Willow Flycatcher and Warbling Vireo are also nesting species at this

site, in case you have missed them at the Valley Falls Marshes.

RICK ENSER is the coordinator of the Rhode Island Natural Heritage Program, an office within the Department of Environmental Management responsible for the inventory and assessment of the state's biodiversity. He is the author of the *Atlas of Breeding Birds in Rhode Island* (published in 1992). He has been birding the Valley marshes for the past twenty-five years and has prepared a checklist of the site that is available from the Natural Heritage Program, 235 Promenade Street, Providence, RI 02908.

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THE MOTHERS OF CONSERVATION

by John Hanson Mitchell

Often overlooked in the long history and analysis of political currents in this country is the fact that environmental activism historically has been primarily the work of women. Theory, philosophy, and writing may have been the handiwork of men such as Henry Thoreau and John Muir. But action, that is, letter-writing campaigns, organization, boycotts, demonstrations, or the willingness to lie down in front of offending bulldozers, has been the business of women.

One of the first acts of environmental activism in this country took place in Boston in 1896. On a February afternoon that year, one of the scions of Boston society, Mrs. Harriet Lawrence Hemenway, happened to read an article that described in graphic detail the aftereffects of a plume hunter's rampage—dead, skinned birds everywhere on the ground, clouds of flies, stench, starving young still alive, in the nests, that sort of thing.

Harriet Hemenway was properly disturbed, and inasmuch as she was a Boston Brahmin and not just any lady of social rank, she determined to do something about it. She packed her reticule—presumably with the article—and went across Clarendon Street to the house of another society woman, her cousin Minna B. Hall. There, over tea, the two of them began to plot a strategy to put a halt to the cruel slaughter of birds for the plumes that decorated the hats of fashionable women of that time. Never mind that the plume trade was a multinational affair involving millions of dollars and some of the captains of nineteenth century industry, the two women meant to put an end to the nasty business.

Harriet Hemenway, it used to be said, had a mind of her own. She once entertained a black man as houseguest when he could not find lodging elsewhere in Boston (he happened to be Booker T. Washington, but that is beside the point). She used to fire off public denunciations of other Brahmins, and when she sat for her portrait by John Singer Sargeant, she let the world know she was pregnant by holding a water lily to her breast—symbolic language announcing her condition and a rare, even shocking public announcement for the period. She was independent, a bit of an iconoclast, an activist, boundlessly energetic, gregarious, overly fond of chocolate and tea, and furthermore, she lived for a very long time. Not a few people around today still remember her.

Boston had a tendency to produce such types. Unlike other great families, when Bostonians come into money, instead of constructing grand estates in Newport or the Hudson River Valley, they tended to put their riches into educational institutions, schools for the blind, progressive (relatively) mill cities such as Lowell, and honorable causes. It was Boston money that built some of

the first museums and libraries in this country. It was Boston money that backed the abolitionist movement, and when the war finally came, it was a Boston family that put one of its favored sons at the head of a special fighting company made up entirely of African Americans.

Harriet Hemenway, *nee* Harriet Lawrence, was out of this tradition. She came from a family that had made money in the textile mills. Her father was a devoted abolitionist and a great supporter of education, and, quite naturally, when she came to marry, it was only right that she should marry within the Brahmin clan. She became a Hemenway, another illustrious, rich, and active Boston family.

The Brahmins had a deep moral streak, part of which was no doubt inherited from their Puritan forebears. But that is not to say they were without sin. They had made their money in the Satanic mills or in the China trade, and by 1896 many of their women, Harriet Hemenway and Minna Hall included, would commonly wear upon their hats the elaborate nuptial plumes of murdered birds. The practice was so common that in the whole there were fewer than 5000 egrets nesting. In New England terns had been entirely extirpated from southernmost states, partly because of fashion and by 1896 it was estimated that some five million American birds of about fifty species were killed annually for fashion purposes. But unprincipled acts such as the wanton slaughter of innocent birds for so shallow a matter as fashion would not long endure once Harriet Hemenway was on the case.

She and Minna Hall took down from the shelves *The Boston Blue Book*, wherein lay inscribed the names and addresses of Boston society. Then Hemenway and Hall went through the lists and ticked off the names of those ladies who were likely to wear feathers on their hats. And having done that, they planned a series of tea parties. Women in feathered hats were invited, and then over petite fours and China black, they were encouraged, petitioned, and otherwise induced to forswear forever the wearing of plumes. After innumerable teas and friendly persuasion, the two women had established a group of some 900 members who vowed to work to discourage the buying or wearing of feathers and to protect native birds. Hunters, milliners, and certain members of Congress may have found the little bird group preposterous. After all, the feathers were plucked from long-necked things that lived in swamps and ate tadpoles, as one senator would later phrase it, whereas their plumes were decorating the hats of beautiful ladies. The Lord made birds for bonnets, it was argued.

But opponents of any regulation on the trade underestimated the opposition. The Boston group was made up of women from the families of the Adams and the Abbots, the Saltonstalls and the Cabots, the Lowells, the Lawrences, the Hemenways, and the Wigglesworths. These were the same families who brought down the British empire in the Americas, this was the same group that forced

Lincoln to issue the Emancipation Proclamation, and it would be this same group who were about to create the American tradition of environmental activism. Within a matter of decades the little group focused on protecting native birds spawned what would be the most popular conservation movement in America up to that time.

Notorious, independent Boston women notwithstanding, these were not the freest of times for society women, and Hemenway and Hall were wise enough to know that if their group were to have any credibility, the women would need the support of men and, most importantly, would need a man as its president, even if he would be a mere figurehead. The women organized a meeting with the Boston scientific establishment, outlined their program, and got the men to agree to join the group, which would be called, they decided, the Massachusetts Audubon Society.

From the start the organization had the backing of some of the foremost names in American ornithology. Edward Forbush, George Mackay, the naturalists Charles S. Minot and Outram Bangs. Minot was associated at Harvard with the foremost biologist in America, Louis Agassiz. The women made him chairman of the board. Then they chose as their president one of the cofounders of the Nuttall Ornithological Club and the American Ornithologists' Union, the Cambridge bird man, William Brewster. It was a skilled political choice. With Brewster as head of the organization, the society immediately garnered national recognition, which is what the women wanted. This was, after all, a national issue.

By the third meeting of the young organization the board resolved to use every effort they could to establish similar societies in other states. By 1897 the District of Columbia and a number of states, including Pennsylvania, New York, Maine, and Colorado, had formed groups. Massachusetts began producing leaflets and helped distribute the legislative models prepared by the American Ornithologists' Union to other societies. By 1900 a conference of state Audubon societies was held in Cambridge, and the following year Massachusetts organized another conference in New York. By 1905 with the prodding and money of the Brahmin women, a National Association of Audubon Societies was established. In 1940 this group became the National Audubon Society.

All this work was to a singular purpose—to do something about the continued slaughter of plume birds. By 1897 Massachusetts had passed a bill outlawing the trade in wild bird feathers, and in 1898 Massachusetts Senator George Hoar attempted to introduce a bill to the U.S. Congress that would prohibit the importation, sales, or shipment of plumes in the United States. The bill failed, but sentiment for the cause was running strong by this time, and when Congressman John Lacey of Iowa proposed a bill in 1900 that would prohibit the interstate shipment of animals killed in violation of local state laws, it passed. The Lacey Act, coupled with strong state bird protection laws and the

establishment of agents to enforce them, slowly began to weaken the trade or at least make it more difficult. The fact that a friend of Minot's family and a former member of Brewster's Nuttall Ornithological Club, Teddy Roosevelt, became president of the United States in 1901 certainly did not harm the cause.

But as with many successful campaigns, this one was fought on two fronts. Laws may have been passed, but just as importantly, social pressures were applied. In 1909 when first lady Mrs. William Howard Taft had the audacity to appear at the presidential inauguration with feathers in her hat, Minna Hall promptly wrote her a personal letter of remonstrance. Brahmin women never were considered paragons of fashion. They shopped at R.H. Stearns. They wore pearl chokers, low-heeled shoes, and long-sleeved nightgowns, and by 1920 no lady with any sensibility would be seen on the streets of Boston wearing feathers, at least not without being glared at by one of her sisters. It was not unlike the current movement against wearing furs.

From time to time the two fronts converged, as in one legislative fight in New York state when a deluge of letters and petitions from women's clubs convinced legislators to pass restrictive legislation. A bill was passed in 1913 to protect migratory birds, and by 1916 the Migratory Bird Treaty with Great Britain further reinforced the law. By the 1920s the issue was dead, the trade was illegal, and although Harriet Hemenway would still have to glare at an occasional offender on the streets of Boston as late as the 1940s, feathers were going out of fashion anyway.

But the fight was not over. There was the matter of that other phrase in the founding charter, to "otherwise further the protection of our native birds," and Harriet Hemenway, who was all of sixty-two in 1920, still had another forty years to go. Proper Boston women, it used to be said, liked getting old. They could wear their hair in the queen mother style with impunity, did not have to worry about fashion anymore, and they could say what they wanted. The Boston abolitionist, Julia Ward Howe, who wrote the "Battle Hymn of the Republic" and lived to be ninety-one years old, confided to her diary at age eighty-seven that she hoped the coming year would bring her useful work. Aging was like a cup of tea, she believed. The sugar was at the bottom.

JOHN HANSON MITCHELL is editor of *Sanctuary* magazine, a publication of the Massachusetts Audubon Society. He is the author of *Walking Toward Walden*.

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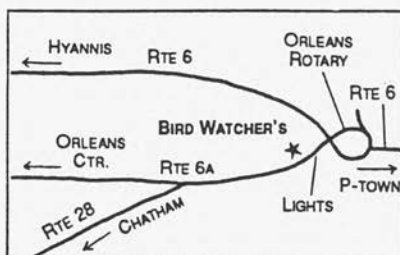
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by Robert W. Ricci

Introduction

One of the more enjoyable features of birding as a hobby is in keeping bird lists. Certainly getting into the habit of carefully recording our own personal birding experiences paves the way to a better understanding of the birds around us and prepares our minds for that chance encounter with a vagrant. In addition to our own field experiences, we advance our understanding of bird life through our reading and fraternization with other birders. One of the most useful ways we can communicate is by sharing our bird lists in Christmas Bird Counts (CBC), breeding bird surveys, and in the monthly compilation of field records as found, for example, in this journal. As important as our personal observation might be, however, it is only in the analysis of the cumulative experiences of many birders that trends emerge that can provide the substance to answer important questions such as the causes of vagrancy in birds (Veit 1989), changes in bird populations (Davis 1991), and bird migration patterns (Roberts 1995).

Most birders, at one time or another, have speculated about what new avian milestones they will overtake in the future. For example, an article in this journal (Forster 1990) recorded the predictions of several birding gurus on which birds might be likely candidates as the next vagrants to add to the Massachusetts Avian Records Committee roster of 451 birds. Just as important as predictions of which birds might appear during your field activities are predictions of the total number of birds that you might expect to encounter.

The "Doubling-Time Rule"

Experiences suggest that finding new species in a birding location does not increase linearly with time but will require a doubling of time to find additional species (Cable and Brock 1991). The doubling sequence will increase as 2^n , where n represents the whole number sequence 1, 2, 3, 4 . . . Take what might be a yearly bird list for a new birder in Massachusetts. During the first year survey, he or she compiles a list of 150 bird species. He or she adds another twenty species during the second year, for a total of 170 species during the second year. According to the above rule, it will take two more years (2^1) to find the next twenty species (fourth-year total of 190 species), four more years (2^2) to find an additional twenty species (eighth-year total of 210 species), eight more years (2^3) to find the next twenty species (sixteen-year total of 230 species), and so on.

Mathematically, the "doubling-time rule" can be written as follows:

$$\text{total \# species seen} = \# \text{ first year} + \# \text{ second year} \times 3.322 \times \text{Log}(Y)$$

The symbol Y represents the year of the survey, and Log is the logarithm to the base 10. As an example application of this formula, we can calculate the total number of species seen at the end of eight years.

$$\text{total \# species seen} = 150 + 20 \times 3.322 \times \text{Log } 8 = 210$$

Of course, the rule applies to any number of years. For the same initial conditions, the doubling-time rule predicts a total list of 226 species at the end of 14 years.

The doubling-time rule is empirical in nature and cannot be derived from more basic biological or ecological principles. Rather it has its roots in the common experience of all birders. We added more birds to our life list during the first year of birding a particular location than in subsequent years.

The rule is based on a variety of assumptions. The area surveyed must be the same. Although the time period need not be in years, it should encompass logical time periods. For example, it would apply in predicting future lists for birding a particular location over several days but would not predict list totals if the days were for different seasons. The number of person-hours spent surveying during a time period should not change nor should the expertise of the birder. No field data are offered in the Cable and Brock paper that might be used to test the doubling-time rule.

Testing the Model

Just as CBC data are more likely to reveal trends from the cumulative efforts of many observers rather than the results of one individual, the doubling-time rule is more likely to be followed when the lists of several people are pooled. From a statistical point of view the precision of field data increases as the square-root of the number of observations. The pooled observations from 100 individuals are likely to be ten times ($\sqrt{100} = 10$) more precise than that of a single individual, all else being equal.

The Forbush Bird Club has been keeping yearly field records of bird species found in Worcester County since 1931. The current practice of displaying field records in an annual publication (*The Chickadee*) was established in 1936. Members send the editor yearly bird lists, which are compiled and listed according to date, number, location, and observer. In the past twenty years, anywhere from thirty to forty members each year have submitted yearly checklists. The field records are a unique resource for anyone interested in birding in Worcester County and contain data spanning almost six decades that can serve as a critical test of the doubling-time rule.

The 1936 edition of *The Chickadee* lists 170 species of birds found that year

in Worcester County. In 1937 the field records listed an additional twenty-one species. Figure 1 shows the total number of bird species seen in Worcester County since 1936 as a function of the year of observation. In compiling the list of new species from the pages of *The Chickadee* I limited myself to those species that are currently on the MARC list. Hybrids were not included. Superimposed on the data is a graph of the total number of species predicted by the doubling-time rule as given above. In 1938 the doubling-time rule predicts that in the year 1994, a total of 293 different species of birds would have been found since 1936. The total number actually found was 310 species. There is less than six percent disagreement between observed and expected. This is a remarkably accurate prediction considering the fifty-nine-year time span involved. In the early years, 1939-1949, the club record lagged behind what would have been anticipated by the doubling-time rule. This might have been due to World War II that undoubtedly curtailed birding activity during these years. The agreement is excellent from 1950-1978, although in 1958 the number of species actually found began to outpace the doubling-time rule as it will undoubtedly continue to do in the future.

In my opinion, this divergence is due to increased birding activity, increased experience and expertise of the current members of the club, and to some extent changes in bird population and habitat. None of these factors are accounted for in the simple doubling-time rule. As an indicator of the increased birding activity and expertise of the club members, I have plotted in Figure 2 the total number of different species sighted and reported in *The Chickadee* in a

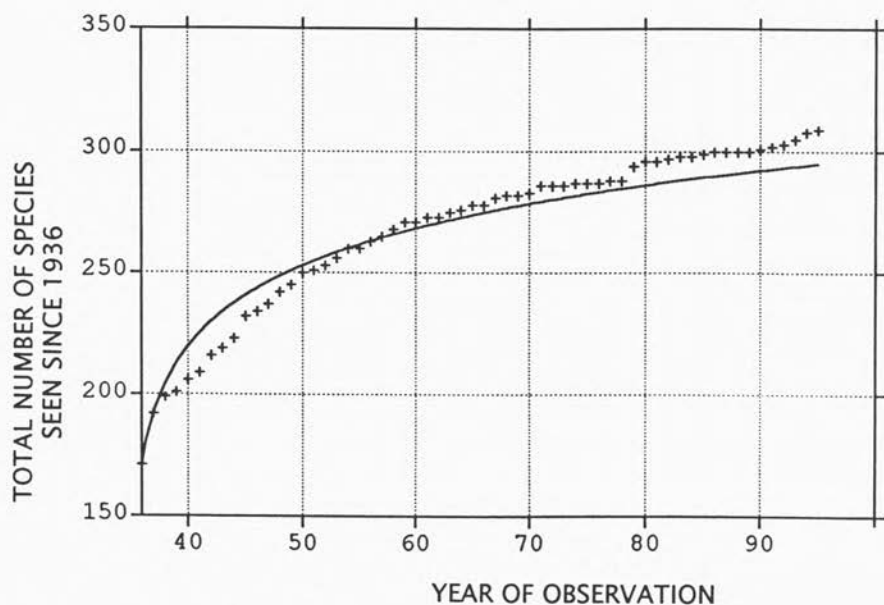


Figure 1. Forbush Bird Club List Totals, 1936-1994

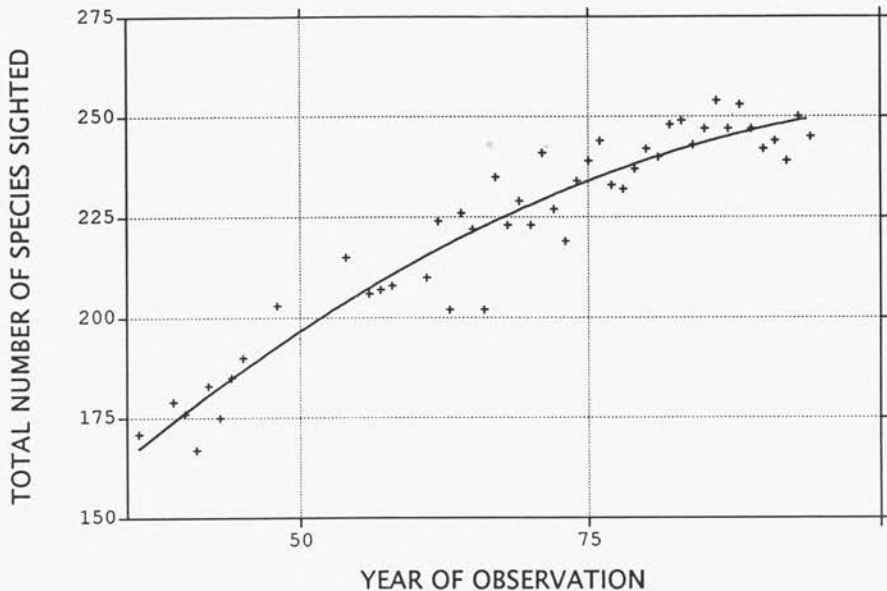


Figure 2. Number of Bird Species Seen in a Given Year by Forbush Bird Club Members, 1936-1994

given year versus the year since 1936. Almost year by year, in a very consistent trend, the number of different species found per year has increased. About fifty percent more different species were found each year in the 1990s as in the 1930s. There is some evidence in the data that the total number of species reported is beginning to level off at the 250 mark.

The doubling-time rule would appear to have validity in the above application and should apply to the birding lists of individuals as long as we understand its limitations. It can provide birders with an approximate tally of how many birds they can expect to see in a given area over a given time interval after the first two surveys. This could provide useful information in helping to plan a birding trip to a new location or simply as a guide to future birding list totals.

References

- Cable, T.T., and K.J. Brock. 1991. How to Predict List Totals. *Bird Watcher's Digest* 13:76-79.
- Davis, S. 1991. Winter Populations of the House Finch in New England, 1985-1989. *Bird Observer* 19:129-132.
- Forbush Bird Club. 1936-1994. *The Chickadee*, Volumes 5-64.
- Forster, R. A. 1990. Top Ten: A Prediction of Future Vagrants in Massachusetts. *Bird Observer* 18:149-154.
- Roberts, P.M. 1995. The Fall Hawk Migration - The Eastern Massachusetts Hawk Watch: Twenty Years and Counting. *Bird Observer* 23:209-221.
- Veit, R.R. 1989. Vagrant Birds: Passive or Active Dispersal? *Bird Observer* 17:25-30.

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**BOOK REVIEWS: *Last of the Curlews* and
*The Flight of the Red Knot***

by Wayne R. Petersen

Last of the Curlews by Fred Bodsworth. Counterpoint Press, Washington, D.C., 1995, illustrations throughout, 174 pages, \$15.00.

The Flight of the Red Knot by Brian Harrington (with Charles Flowers). W.W. Norton & Co., New York, 1996, 50 color photographs, 192 pages, \$29.95.

During the past two centuries shorebirds have variously captured the attention and admiration of sportsmen, market hunters, naturalists, bird carvers, artists, photographers, ornithologists, and birders. And to this long list should now be added conservation biologists.

For some folks, restless parties of animated shorebirds are as symbolic of summer clam flats and sandy beaches as are volleyballs and beer. To others, it is perhaps the epic annual migrations of shorebirds or their spectacular seasonal concentrations at widely separated coastal localities that captures our fancy. But regardless of the appeal, be it aesthetic or intellectual, gaining an understanding of shorebird history and developing a concern for their future should clearly be most deserving of our attention.

The titles, *Last of the Curlews* by Canadian nature writer Fred Bodsworth and *The Flight of the Red Knot* by Manomet Observatory ornithologist Brian Harrington, each poignantly address the past, present, and future existence of shorebirds with an eloquence and a directness all too seldom encountered in natural history writing. Each book, the first a recently republished fictional classic about the Eskimo Curlew, the second a cutting-edge monograph pertaining to the Red Knot, provides readers with graphic and moving accounts of the plight of shorebirds in the twentieth century.

Bodsworth's curlew novel first appeared in 1955, when it enjoyed tremendous success by ultimately selling three million copies in eight different languages. In brief, the book gives an account of a year in the life of two (the last?) Eskimo Curlews. Beginning with a magnificent chronicle of the practically unimaginable nonstop over-Atlantic autumn flight of the Eskimo Curlew as it departs from Labrador, bound for its distant wintering quarters a hemisphere away in wind-swept Patagonia, the story concludes with the agonizing sadness of its return flight to arctic Canada. Bodsworth's narrative brings the reader face to face with the harsh realities facing a species at the doorstep of extinction. Factually meticulous and movingly (but not sentimentally) written, *Last of the Curlews* provides intimate details about one of North America's rarest vertebrates.

The 1995 edition includes attractive line drawings by Abigail Rorer, along with a stage-setting foreword by Pulitzer prize author W.S. Merwin. Especially

insightful is a thoughtful afterword by Nobel Prize physicist, Murray Gell-Mann, who cogently discusses the Eskimo Curlew in the context of global extinction and growing threats to the integrity of our planet's biodiversity. Counterpoint Press and all who contributed to the revival of Fred Bodsworth's original classic are to be congratulated for recognizing the worth of this superb piece of nature writing and for reminding us how tenuous a species' tenure on earth really is.

In contrast to Bodsworth's fictional account, Brian Harrington's narrative uses contemporary research to round out a picture of another arctic-breeding shorebird, the Red Knot. For Massachusetts readers with a passion for shorebirds, there is a lot to identify with in *The Flight of the Red Knot*, not the least being fifty spectacular color photographs, many by David Twichell. Harrington specifically describes how the autumn migration strategy of the knot is closely tied to the southern shores of Massachusetts Bay and Cape Cod, where large numbers routinely stop to replenish resources lost on their nonstop flight from James Bay in northern Ontario, the first leg of a migration that eventually terminates in Argentina.

From Canada, Massachusetts, and the Middle Atlantic states all the way to the broad, shelf-like, sediment-packed beaches—the *restingas*—that comprise the species' Patagonian winter habitat, the author has tracked the "Robin Snipe." Beginning in late fall on the austral calendar, he has carefully chronicled how the knots initiate their northward migration, a migration that eventually brings most of the New World population of the species to a pinpoint on the map, the shores of Delaware Bay in New Jersey. Here, at one of the greatest shorebird concentrations to be found on the continent, the knots arrive precisely in mid-May, along with myriads of Ruddy Turnstones, Sanderlings, and Semipalmated Sandpipers, to harvest a munificence of horseshoe crab eggs, a protein-rich food source generated in synchrony with the flood tides of late spring. After only a few short days of gluttony in Delaware Bay, the tireless knots depart for their arctic breeding grounds, where they remain but a few short weeks, before once again initiating their southward journey.

By color-marking, banding, and observing thousands of knots throughout the western hemisphere during the past twenty-five years, Harrington and his colleagues have been able to accurately profile a long-distance migratory bird species with a detailed understanding available for very few other bird species. But more importantly, Brian Harrington has placed the Red Knot in a modern context, a context threatened by a growing human population, sweeping environmental changes, large-scale habitat alterations, and increasing competition for living space that is placing growing demands on all living things, not just shorebirds like the Red Knot. *The Flight of the Red Knot* is a case study, indeed, a blueprint, for both species preservation and ecosystem conservation.

In summary, these two shorebird volumes afford the reader, each in a refreshingly unique format, both information and pleasure, as well as underscoring the growing importance of implementing effective international conservation strategies. Even if shorebirds are not your thing, read these books. You will not be disappointed.

WAYNE R. PETERSEN is field ornithologist for the Massachusetts Audubon Society.

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*FIELD NOTES FROM HERE AND THERE*_____

Possible Bald Eagle Predation of a Piping Plover Nest

On June 23, 1996, on Race Point Beach in Provincetown, I observed an immature Bald Eagle that had just come up from the center of a predator enclosure that surrounded a Piping Plover nest. When I first observed the eagle, it appeared to be holding on to the enclosure's net top with its talons while flapping its wings. At first, I believed the eagle may have been entangled in the top of the enclosure. However, as I moved closer to the enclosure, the eagle removed its talons from the netting and immediately perched on the edge of the enclosure. After several minutes, the eagle flew to a nearby dune.

Three of the four eggs on the plover nest were completely shattered, and the fourth was left partially intact. The enclosure's net top had two small tears, each approximately 6-7 centimeters in diameter, and a larger tear, approximately 12-15 centimeters in diameter.

To the best of my knowledge, no incident of a Bald Eagle attempting to enter a predator enclosure has been recorded. Whether the eagle entered the enclosure seeking to predate the nest or for some other unknown reason is not clear. This nest had been abandoned a week earlier.

As part of the Piping Plover recovery program predator enclosures, which are circular metal fences (2 x 4 inch mesh), are built around most plover nests. Each predator enclosure is at least three feet tall, ten feet in diameter, and supported by five wooden posts. To prevent avian predation, enclosure tops are covered with three-quarter-inch mesh bird netting. Ideally, this design allows the plovers to enter and exit the nest, while at the same time excluding mammalian and avian predators.

Most of the nests are monitored daily, which is one of my duties as a student resource assistant for the National Park Service at Cape Cod National Seashore.

Jill A. Seale, Merrillville, Indiana

Observations on Killdeers and Starlings

I coordinate a charitable farm at the University of Massachusetts Extension, 240 Beaver Street, Waltham, known as Waltham Fields Community Farm. I am interested in birds and thus watch and listen when I work there. It is pretty urban, so mostly one sees House Sparrows, House Finches, American Robins, Common Grackles, Mourning Doves, European Starlings, and American Crows. There are resident Red-tailed Hawks, and last year in the fall a Northern Harrier sailed through. Turkey Vultures have soared by a number of times. In the spring

there were two American Kestrels flying about. In the winter a gardener and dog walker reported to me that she saw a flock of sandpiper-like birds. I suggested Snow Buntings, and when she looked them up in the book, that is what they were.

There are also resident Killdeers, and one day in early July I heard quite a commotion from the Killdeers. Looking over I saw a flock of starlings, about fifteen birds, chasing a pair of Killdeer. They seemed quite determined, and the Killdeer were trying various aerial maneuvers to escape. And again a few days later I saw perhaps five starlings start to harass a Killdeer. I had always heard starlings were very aggressive, but I had never read that they would coordinate an attack in a flock like that.

Oakes Plimpton, Arlington, Massachusetts

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BIRD SIGHTINGS

MAY 1996

SUMMARY



by Richard A. Forster, Marjorie W. Rines, and Robert H. Stymeist

May followed the trend set by March and April of cooler than average weather, with an average temperature of 57.2°, 1° below normal. Without the 91° temperatures on May 20 and 21, this average would have been even lower. The temperature on May 20 set a new high for that date, surpassing the previous high in 1975 by one degree. Rain was recorded on 20 days, with 11 of these occurring in the first 12 days. The total rainfall of 2.73 inches, however, was a little more than half an inch below normal. Winds were out of the southwest on May 1, 8, 16, 19, 26, and 27. May 11 was a day of an exceptional wave of migrants, yet it followed two days of northeast winds, and the wind for that day was from the west. Weather records available to *Bird Observer* only show the average wind direction, so the wind direction for the night preceding this fallout is not available.

R. H. S.

LOONS THROUGH WOODPECKERS

An excellent count of Red-throated Loons was made early in the month at Martha's Vineyard, and Common Loon was reported in appreciable numbers through most of the month. The lousy weather for much of the early part of the month was likely responsible for appreciable numbers of Red-necked Grebe lingering at numerous locations beyond the normal departure date. Sooty Shearwaters appeared at inshore waters on schedule late in the month, and several Manx Shearwaters were also reported. The count of a thousand Northern Gannets at Martha's Vineyard on the 5th was exceptionally high given the date. Heron reports were mostly routine with most species already settled into their breeding routine. Both Cattle Egret and Glossy Ibis are strongly tied in to the Ipswich/Essex area. There was the typical scattering of reports of Tricolored Heron, and the Yellow-crowned Night-Heron in Northbridge was an unusual inland record. Reports of waterfowl during May typically reflect the tail end of migration and laggards. Resident species normally become inconspicuous shortly after the onset of nesting. A sizable flock of Snow Geese lingered in Newburyport beyond their normal departure time. Reports of freshwater ducks were concentrated at Plum Island and South Monomoy as usual. Reports of sea ducks were confined to the usual coastal locations with a noticeable migration of White-winged Scoter.

The high interest in hawkwatching in April gives way this month to the frantic pursuit of passerine migrants. However, if proper weather conditions prevail, significant hawk flights occur, largely representing subadult birds and presumed non-breeders. Flights occurred at Plum Island on the 12th and 13th, and again at Truro on the 21st. The Plum Island flight featured Osprey, Northern Harrier, Sharp-shinned Hawk, and falcons including an impressive six Peregrine Falcons. Also recorded there was a **Swainson's Hawk**, a species that is exceedingly rare in spring. The North Truro flight had similar species, but was dominated by Broad-winged Hawk. Both **Swallow-tailed** and **Mississippi kites** were seen on the 21st, the second day of 90°+ temperatures, and accompanying southwest winds, the precise conditions that provide many of our kite reports. All the rail species were reported in typical numbers. Several American Coot reported during the month were interesting, but the lack of Common Moorhen reports provides testimony to the species' gradual but almost complete decline in the state.

The movement of shorebirds through the state is largely overlooked in the preoccupation with landbird migrants. Although not as many shorebird species occur as during the prolonged fall migration, spring migration is nevertheless intriguing. Yellowlegs and Least Sandpipers dominate early in the month, but peak numbers of many other species occur later in the month, sometimes almost at month's end. The only rarity reported during the month was a female **Wilson's Plover** at North Monomoy on the 4th. This species is almost an annual migrant but most reports fall in a very brief period in late May and early June. Thus the early date of this observation is noteworthy. Observations that stand out were an American Golden-Plover, a strong showing of Lesser Yellowlegs early in the month, and numerous small flocks of Spotted Sandpipers.

There was a small movement of Pectoral Sandpipers early in the month and White-rumped Sandpipers late in the month. A major shorebird movement on the North Shore on the 24th featured Semipalmated Plovers, Whimbrels, and Short-billed Dowitchers. Ruddy Turnstones, and Red Knots were notably scarce. There were no reports of either Ruff or Curlew Sandpiper, which is the first time in nearly 25 years of *Bird Observer* record keeping that neither of these species was reported during May, and only the second time that Ruff was unreported.

A Parasitic Jaeger seen from land and a rare inland Laughing Gull at West Bridgewater were among the most noteworthy larid reports. The roster of lingering gulls included Glaucous, Iceland, Lesser Black-backed, Little and Black-headed. Bonaparte's Gull was plentiful at Lynn Beach as usual, but it was notably scarce at Newburyport as has been the case in the past few years. The tern list includes several reports of Caspian Tern, one of which may have been the same individual seen on several occasions, a Royal Tern, and several Forster's Terns, most exceptionally one seen inland at Lakeville. Black Terns appeared fairly well reported with a nearly even split between inland and coastal birds. The **Common Murre**, a rare bird at any season, and the Razorbill were both notably unseasonal. Cuckoos seemed in fairly good numbers, Black-billed especially so. Owl reports were unremarkable, but the Northern Saw-whet Owl apparently nesting in South Wellfleet was a pleasant find. The few reports of Chuck-will's-widows were more noteworthy because there were no reports from Martha's Vineyard where they have been long suspected of breeding. A May report of a **Black-backed Woodpecker** is all the more remarkable in light of its increased rarity in the past three decades.

R. A. F.

Date	Location	Number	Observers	Date	Location	Number	Observers
Red-throated Loon				5	Watertown	1	M. Rines#
5	Edgartown	600	G. Daniels	10	Rochester	1	M. Sylvia
24	P.I.	18	R. Heil	11, 18	GMNWR	1, 1	F. Gardner
25-26	Nantucket	32	S. Perkins#	11	Brookfield	2	R. Bradbury#
Common Loon				14	Lynnfield	1	BBC (W. Drummond)
14	Jeffrey's Ledge	100	R. Abrams	18	P.I.	1	B. Parker
18	N. Scituate	11	G. d'Entremont#	19	Princeton	1	M. Boucher
20	N. Truro	11	R. Forster	20	Essex	1	B. Parker
24	Nant. Sound	24	S. Perkins#	Least Bittern			
25-26	Nantucket	60+	S. Perkins#	19	Wayland	1	M. Sylvia
Pied-billed Grebe				27	Needham	1	H. Miller
2	GMNWR	2	R. Lockwood	27	Salem	2	I. Lynch
27	P.I.	1	F. Bouchard	Great Blue Heron			
28	Boston (F.Pk)	1	T. Aversa	11	Westboro	19 nests	M. Lynch#
Red-necked Grebe				19	Boxboro	50	R. Lockwood
8	P.I.	1	R. Heil	20-21	P.I.	17 migr	S. Perkins
11	E. Gloucester	2	C. Leahy	Great Egret			
13	Marblehead, Nahant	3, 5	R. Forster	4, 11	P.I.	8, 15	P. + F. Vale
15	Hull	1	J. Norton	6	Halifax	1	K. Holmes
18	Nahant	5	C. Floyd	8	W. Harwich	8	B. Nikula#
18	N. Scituate	3	G. d'Entremont#	22	N. Monomoy	4	B. Nikula#
24	MNWS	1	R. Heil	25-26	Nantucket	4	S. Perkins#
Sooty Shearwater				25	Hanson	1	W. Petersen
17, 27	Wasque Pt (M.V.)	12, 12	V. Laux#	26	Yarmouthport	9	S. + E. Miller
25-26	Nantucket	60	S. Perkins#	Snowy Egret			
25	1 m W of Truro	3	J. Young	11	Gloucester	12	J. Berry
25	Eastham	3	W. Petersen	14, 31	P.I.	17, 24	W. Drew#
26	off S. Monomoy	4	H. Ferguson	19	Hingham	20	BBC (N. Swirka)
28	Stellwagen	1	R. Lockwood	26	Rowley	25	J. Berry
Manx Shearwater				Little Blue Heron			
5	Edgartown	1	G. Daniels	2	Essex	2	M. Rines
17	Wasque Pt (M.V.)	1	V. Laux#	4	P.I.	1 pied	H. Wiggin#
25-26	Nantucket	2	S. Perkins#	5	Boston (B.I.)	1	C. Jackson
Leach's Storm-Petrel				7	Scituate	1	S. Hecker
28	Stellwagen	4	R. Lockwood	18	Cumb. Farms	2	W. Petersen#
Northern Gannet				18	Plymouth B.	1	C. Ralph#
5	Edgartown	1000	G. Daniels	24	Essex	5 ad	R. Heil
17-18	Nantucket	400	T. Maloney#	26	Hingham (W.E.)	1	S. Carey
Great Cormorant				Tricolored Heron			
28	Scituate	2	R. Lockwood	4-07	N. Monomoy	2	B. Nikula#
Double-crested Cormorant				4-21	P.I.	1-3	v.o.
12	P.I.	350	M. Lynch#	5	Edgartown	1	G. Daniels
19	MNWS	120	M. Lynch#	12, 18	Duxbury	1	W. Petersen
American Bittern				29	Nomans (M.V.)	1	A. Keith
4	W. Newbury	1	P. + F. Vale				

Cattle Egret			
2	Ipswich	5	J. Berry
3	Amesbury	1	T. Zerico
18	Eastham (F.H.)	1	v.o.
19	Essex	3	M. Sylvia
25	Topsfield	1	P. + F. Vale
27	Hamilton	11	C. Cusson
Green Heron			
4	Newbypt/P.I.	5	R. Forster
5	P.I.	2	J. Center
12	Gloucester	3	BBC (J. Nove)
14	Lynnfield	2	BBC (W. Drummond)
29	P.I.	2	J. Brown#
Black-Crowned Night-Heron			
9	Arlington	19	M. Rines
20	W. Newton	5	T. Kuklinski
Yellow-crowned Night-Heron			
16-19	Northbridge	1 ad	P. Barbadera
24	Wareham	1	M. LaBossiere
Glossy Ibis			
3	N. Dartmouth	16	M. Boucher
5	Ipswich, Essex	86, 65	T. Young
19	Essex	27	M. Sylvia
27	Topsfield	16	F. Bouchard
Whooper Swan			
25	Ipswich	1	R. Stymeist#
Snow Goose			
15	Newburyport	60	R. Abrams
Brant			
8, 24	Newburyport	320, 55	R. Heil
11	S. Boston	97	R. Stymeist#
18	Plymouth B.	100	C. Ralph#
20	N. Monomoy	160	B. Nikula#
Wood Duck			
1-31	Provincetown	19 max	B. Nikula
8	Wakefield	3m, 1f	P. + F. Vale
11	Bolton Flats	27	R. Lockwood
12	GMNWR	35	M. Lynch#
Green-winged Teal			
5, 25	P.I.	58, 3	M. Lynch#
18	S. Monomoy	12	B. Nikula#
18	W. Bridgewater	2	W. Petersen#
27	ONWR, Bolton	1, 1	R. Stymeist#
Northern Pintail			
4	P.I.	2	R. Lockwood
18	S. Monomoy	8	B. Nikula#
Blue-winged Teal			
5	ONWR	2	R. Lockwood
5	Watertown	2	M. Rines#
12	Truro	2	J. Young
15	Bolton Flats	4	R. Bradbury
16	W. Newbury	4	BBC (S. Grinley)
24	Topsfield	6	R. Heil
24	P.I.	8	R. Heil
Northern Shoveler			
11	P.I.	2	H. Wiggin#
18	S. Monomoy	2	B. Nikula#
Gadwall			
14, 31	P.I.	18, 4	W. Drew#
18	S. Monomoy	20	B. Nikula#
26	Rowley	3	J. Berry
American Wigeon			
18	S. Monomoy	2	B. Nikula#
Ring-necked Duck			
5	P.I.	4	M. Lynch#
18	Randolph	1	G. d'Entremont#
Greater Scaup			
1	Randolph	9	G. d'Entremont
5	Newburyport	13	M. Lynch#
Common Eider			
12	Gloucester	34	BBC (J. Nove)
18	N. Scituate	22	G. d'Entremont#
19	Fairhaven	25	M. Sylvia
25	Marblehead	2	M. Lynch#
Harlequin Duck			
18	Squibnocket	1	V. Laux
18	N. Scituate	4	W. Petersen#
18	Nahant	2	R. Stymeist#
Oldsquaw			
8, 24	Newburyport	1550, 30	R. Heil
Black Scoter			
17-18	Nantucket	80	T. Maloney#
Surf Scoter			
17-18	Nantucket	12	T. Maloney#
White-winged Scoter			
21	Chatham	300+	migr B. Nikula
25-26	Nantucket	3000+	S. Perkins#
Common Goldeneye			
1	Randolph	5	G. d'Entremont
5, 19	Newburyport	5, 1	M. Lynch#
8	Andover	32	E. Stromsted
13	Hanover	1	W. Petersen
Bufflehead			
1, 17	Randolph	54, 13G.	d'Entremont
2, 13	Salem	7, 2	J. Berry
5	Newbypt, P.I.	15, 2	M. Lynch#
1, 15	Andover	97, 6	E. Stromsted
19	S. Dartmouth	3	M. Boucher
Hooded Merganser			
1-31	Needham	1 f + 18 yg	J. Samulson
11	W. Newbury	1	R. Heil
14	P.I.	1	W. Drew#
18	Quabbin (G45)	3	R. Bradbury
18	Petersham	4	M. Lynch#
Common Merganser			
1	W. Harwich	3	B. Nikula
18	Petersham	12	M. Lynch#
Red-breasted Merganser			
4	N. Monomoy	600+	B. Nikula
5	P.I.	15	M. Lynch#
12	Gloucester	16	BBC (J. Nove)
19	Fairhaven	9	M. Sylvia
25-26	Nantucket	6	S. Perkins#
25	Nahant	2	R. Stymeist#
Ruddy Duck			
12, 18	Pembroke	2, 1	W. Petersen
17-21	Melrose	1	D. + I. Jewell
Turkey Vulture			
5	Saugus	2	P. + F. Vale
5	Westminster	2	BBC (J. Kennedy)
11	Woburn	2	BBC (J. Kennedy)
19	Rowley	4	P. + F. Vale
21	N. Truro	8	R. Forster#
26	E. Orleans	2	W. Petersen#
Osprey			
5	ONWR	1	R. Lockwood
8	Arlington	1	M. Rines
11	Westboro	pr n	M. Lynch#
12	P.I.	17	G. Gove
17	Newbypt, W. Newby	1, 1	P. + F. Vale
18	Sutton	1	J. Young
19	Hull	1	BBC (N. Swirka)
21	N. Truro	11	R. Forster#
25-26	Nantucket	5 prs	S. Perkins#
26	Rowley	2 pr	J. Berry
28	Saugus	1	J. Berry
Swallow-tailed Kite			
11	Hyannis	1	T. Lipsky
21	Oak Bluffs	1	P. Swift
Mississippi Kite			
21	Lakeville	1 s.ad.	M. Sylvia
25	Cuttyhunk	1	B. Malcolm

Bald Eagle						
1, 4	N. Truro, P'town	1 imm	B. Nikula			
11	Andover	1 imm	F. Rex			
11	Dorchester	1	R. Donovan			
12	P.I.	1 imm	G. Gove			
12	Marshfield	1	S. Shapiro			
15	Wayland	1 imm	R. Forster#			
18, 31	S. Monomoy	1 imm	B. Nikula			
18	N. Scituate	2 imm	G. d'Entremont#			
18	Lakeville	1 imm	W. Petersen#			
19	Topsfield	1	L. Burgess			
27	W. Newbury	1 imm	S. Perkins#			
31	N. Monomoy	1 imm	B. Nikula#			
Northern Harrier						
13	P.I.	12	D. Jacques			
17-18	Nantucket	2	T. Maloney#			
Sharp-shinned Hawk						
11	Woburn	2BBC	(J. Kennedy)			
13	P.I.	69	K. Chahowsky			
14	P.I.	3	W. Drew#			
21	N. Truro	8	R. Forster#			
thr	Reports of individuals from 6 locations					
Cooper's Hawk						
thr	Lincoln pr nesting		A. Jones#			
thr	Reports of indiv. from 20 locations					
Northern Goshawk						
5	Westminster	1BBC	(J. Kennedy)			
11	Gardner	1	T. Pirrou			
18	Middleboro	1	C. Ralph#			
22	Boxford (C.P.)	1	J. Brown#			
27	IRWS	1	W. Tatro			
Red-shouldered Hawk						
1-31	Sherborn	4	E. Taylor			
1	N. Dartmouth	1	M. Boucher			
4	Boxford (C.P.)	2	R. Heil			
5	ONWR	1	B. Parker			
11	Lancaster	1	R. Lockwood			
18	Petersham	1	M. Lynch#			
21	N. Truro	1 imm	R. Forster#			
24	Gardner	1	T. Pirrou			
25	Nahant	1	R. Stymeist#			
27	Harvard	1	R. Stymeist#			
27	W. Newbury	1 imm	S. Perkins#			
Broad-winged Hawk						
19	ONWR	3	R. Lockwood			
21	Wakefield	2	P. + F. Vale			
21	N. Truro	80	R. Forster#			
11-28	Reports of individuals from 9 locations					
Swainson's Hawk						
13	P.I.	1	D. Jacques#			
American Kestrel						
2	P.I.	150	fide P. Roberts			
4	Newburyport	2	P. + F. Vale			
5	Wakefield	2	P. + F. Vale			
5	Carver	2	K. Holmes			
6	Halifax	2	K. Holmes			
12	Truro	6	J. Young			
13	P.I.	51	K. Chahowsky			
20-21	P.I.	12 migr	S. Perkins			
20	Bedford (Hanscom)	4	R. Lockwood			
21	N. Truro	6	R. Forster#			
Merlin						
10	P.I.	3	T. Aversa#			
12	P.I.	9	G. Gove			
12	Duxbury B.	2	W. Petersen			
13	P.I.	6	D. Jacques			
20	N. Truro	3	R. Forster#			
thr	Reports of individuals from 8 locations					
Peregrine Falcon						
1-31	Fall River	pr n	T. French			
1-31	Boston	2 pr n	T. French			
2	Taunton	1 adG.	d'Entremont			
13	P.I.	6	D. Jacques			
Ruffed Grouse						
11, 27	Ipswich	1, 1	J. Berry			
11	W. Newbury	1	P. + F. Vale			
11	E. Middleboro	1 m	K. Anderson			
17	ONWR	1	B. Parker			
19	Princeton	2	M. Boucher			
21	Concord	1	R. Lockwood			
23	Pepperell	1	E. Stromsted			
24	Concord	2	R. Lockwood			
25	Weston	1	D. Morimoto			
26	Quabbin (G45, 40)	1, 2G.	d'Entremont#			
Wild Turkey						
1-31	Middleboro	14 max	R. Shore			
2	W. Roxbury	1	J. Queely			
3	Saugus	1	D. + I. Jewell			
4	W. Newbury	1	H. Wiggin#			
5	Hamilton	1	J. Berry			
8	Newburyport	6	R. Heil			
11	Ipswich	3	J. Berry			
15, 19	Medford	1	M. Rines			
17	ONWR	1	B. Parker			
20	Concord	1	R. Lockwood			
25	Rowley	3m	P. + F. Vale			
28	Boxford	1	J. Brown#			
29	Groveland	1	R. Lockwood			
Northern Bobwhite						
2	W. Bridgewater	10	G. d'Entremont			
18	Middleboro	1	S. Hennin			
Clapper Rail						
8, 24	P.I.	1, 1	R. Heil			
18	P.I.	2	BBC (W. Drummond)			
King Rail						
18	S. Hanson	1	G. d'Entremont#			
27-31	W. Harwich	1	S. + E. Miller			
Virginia Rail						
8, 13	Lexington	4, 5	M. Rines			
11	W. Roxbury	2	R. Stymeist#			
14	Provincetown	2	B. Nikula#			
14	Lynnfield	4	BBC (W. Drummond)			
18	W. Harwich	2	B. Nikula#			
18	S. Hanson	3	G. d'Entremont#			
19	IRWS	4	J. Berry			
24	Bolton Flats	3+	BBC (J. Center)			
25	Nantucket	2	S. Perkins#			
Sora						
5	W. Bridgewater	1	R. Forster			
6	Provincetown	1	J. Sones#			
9	Harvard	1	S. Hennin			
11	Bolton Flats	2	R. Lockwood			
18	S. Monomoy	2	B. Nikula#			
18	S. Hanson	3	G. d'Entremont#			
19	W. Newbury	1	N. Nash			
22	Lynnfield	1	J. Brown#			
American Coot						
18	GMNWR	1	P. + F. Vale			
18	Newburyport	1	BBC (W. Drummond)			
Black-Bellied Plover						
4-31	N. Monomoy	650 max	B. Nikula			
11	Duxbury B.	365	W. Petersen			
19	Fairhaven	30	M. Sylvia			
21	Newburyport	600+	S. Perkins			
25-26	Nantucket	100	S. Perkins#			
American Golden-Plover						
12	Newburyport	1	M. Lynch#			
Wilson's Plover						
4	N. Monomoy	1	B. Nikula			
Semipalmated Plover						
11	Duxbury B.	43	W. Petersen#			
15	Newburyport	75	R. Abrams			

Semipalmated Plover (continued)				25	Nantucket	25	S. Perkins#
22, 31	N. Monomoy	60, 20	B. Nikula	25	Lynn	3	R. Stymeist#
22	Bolton Flats	9	R. Bradbury	26	N. Monomoy	25	H. Ferguson
24	P.I.	700	R. Heil	Red Knot			
24	Nahant	550	R. Heil	22, 31	N. Monomoy	4, 4	B. Nikula
24	Topsfield	6	R. Heil	25	Nantucket	3	S. Perkins#
25	Worcester	2	E. Banks	26	Tisbury	19	V. Laux
Piping Plover				Sanderling			
18	Ipswich	2	J. Brown#	1-31	N. Monomoy	950 max	B. Nikula
26	Eastham	9	M. Sylvia	24	Nahant	500	R. Heil
26	Plymouth B.	14	M. Rines#	Semipalmated Sandpiper			
31	P.I.	16 nests	fide W. Drew	4-31	N. Monomoy	600 max	B. Nikula
American Oystercatcher				11	P.I.	1	P. + F. Vale
1-31	N. Monomoy	20 max	B. Nikula	18	Nahant	1	M. Rines
12	Gloucester	1	BBC (J. Nove)	25	Worcester	8	E. Banks
17-18	Nantucket	8	T. Maloney#	25	Nantucket	16	S. Perkins#
18	Duxbury	1	W. Petersen#	26	N. Monomoy	400	H. Ferguson
19	Fairhaven	3	M. Boucher	31	P.I.	245	W. Drew#
Greater Yellowlegs				Least Sandpiper			
3	Cumb. Farms	50	K. Anderson	4-31	N. Monomoy	300 max	B. Nikula
8	Newburyport	600	R. Heil	4	Newburyport	1200	R. Forster#
12	Duxbury	125	W. Petersen#	11	W. Harwich	160+	B. Nikula
Lesser Yellowlegs				11	Bolton Flats	37	R. Lockwood
5	W. Bridgewater	15	R. Forster	12, 15	Cumb. Farms	25, 20	K. Anderson
8	Newburyport	58	R. Heil	14	Topsfield	80	D. + I. Jewell
Solitary Sandpiper				17	W. Newbury	30	P. + F. Vale
4	Newbury	3	R. Lockwood	18	Ipswich R.	70	J. Berry
5	W. Newbury	3	M. Lynch#	25	Topsfield	88	P. + F. Vale
11	Pepperell	6	E. Stromsted	26	Rowley	135	J. Berry
11	Boston (Hyde Pk)	9	R. Stymeist#	White-Rumped Sandpiper			
18	Ipswich R.	6	J. Berry#	4-31	N. Monomoy	12 max	B. Nikula
19	Provincetown	4+	B. Nikula#	11	Fairhaven	1	M. Boucher
19	Newburyport	6	T. Young	11	Duxbury	1	W. Petersen#
19	IRWS	6	J. Berry	18	Chilmark	5	V. Laux#
20	P.I.	6 migr	S. Perkins	21	Newburyport	3	S. Perkins
24	Topsfield	5	R. Heil	26	N. Monomoy	5	H. Ferguson
Willet				31	P.I.	59	W. Drew#
1-31	N. Monomoy	60 max	B. Nikula	Pectoral Sandpiper			
5, 25	P.I.	17, 16	M. Lynch#	2	W. Bridgewater	6	G. d'Entremont
5	Edgartown	38	G. Daniels	3	Cumb. Farms	17	K. Anderson
5	Marblehead	1	L. Healy	5	Rowley	1	B. Parker
11	Fairhaven	4	M. Boucher	19	Newburyport	1	T. Young
12	Gloucester	8	BBC (J. Nove)	Purple Sandpiper			
25	Nantucket	7 migr	S. Perkins#	13	Lynn	90	R. Forster
26	Rowley	14	J. Berry	18	N. Scituate	17	G. d'Entremont#
Spotted Sandpiper				19	Fairhaven	1	M. Boucher
11	Bolton Flats	6	R. Lockwood	24	P.I.	85	R. Heil
11	Newbypt H.	18	R. Forster#	25	Nahant	43	R. Stymeist#
11	Squantum	6	BBC (G. d'Entremont)	25	Nantucket	6	S. Perkins#
11	Boston (Jam. Pl)	7	R. Stymeist#	Dunlin			
12-30	Boston (F.Pk)	4 max	T. Aversa	4-31	N. Monomoy	1000 max	B. Nikula
12	Gloucester	11	BBC (J. Nove)	4	Newburyport	350	R. Forster
18	Ipswich R.	7	J. Berry#	11	Duxbury B.	600	W. Petersen#
18	New Braintree	16	M. Lynch#	25	Newburyport	370	M. Lynch#
19	WBWS	10+	J. Sones	Short-billed Dowitcher			
19	Provincetown	10	B. Nikula#	4, 26	Newburyport	1, 150	R. Forster#
25	Topsfield	8	P. + F. Vale	4-31	N. Monomoy	35 max	B. Nikula
25	DWWS	11	D. Ludlow#	19	Katama	100+	A. Keith#
Upland Sandpiper				24	Lynn	630	R. Heil
6	Logan	3	S. Hecker	24	P.I.	1200	R. Heil
12	Bolton Flats	1	R. Bradbury	26	Rowley	122	J. Berry
12	Cumb. Farms	4	R. Shore	Common Snipe			
20	Bedford (Hanscom)	4	R. Lockwood	1	Beverly	1	J. Brown#
23	Chilmark	1	A. Keith	1	Wayland	1	N. Patterson
24	DWWS	1	D. Ludlow#	2	Rowley	1	M. Rines
thr	Newburyport	2	v.o.	2	W. Bridgewater	6	G. d'Entremont
Whimbrel				4	Newbury	2	R. Lockwood
5, 24	P.I.	1, 11	J. Center, R. Heil	12	P.I.	1	M. Lynch#
Ruddy Turnstone				17	Bolton Flats	1	R. Bradbury#
12	GMNWR	1	J. Miller	American Woodcock			
19	Fairhaven	9	M. Boucher	2	Ipswich	3	J. Berry

American Woodcock (continued)				24	Nant. Sound	2	S. Perkins#
11	Lunenburg	1	R. Lockwood	24	Newburyport	1	R. Heil
21	ONWR	1	R. Lockwood	26	Plymouth	1	R. Stymeist#
22	Plymouth	1	G. d'Entremont	26	off S. Monomoy	1	H. Ferguson
22	Topsfield	1	J. Brown#	27	Newbury	2	S. Perkins#
thr	Concord	2	R. Lockwood	Black Skimmer			
Wilson's Phalarope				18	Chatham	3	E. Banks#
3	Salisbury	1	M. Rines	Common Murre			
15	Newburyport	3	R. Abrams	28	Stellwagen	1	M. Lockwood#
thr	P.I.	10 max	5/14 W. Drew + v.o.	Razorbill			
Parasitic Jaeger				20	N. Monomoy	1	B. Nikula#
24	Wasque Pt (M.V.)	1	A. Keith#	Black Guillemot			
Laughing Gull				18	N. Scituate	2	G. d'Entremont#
5	W. Bridgewater	1 ad	R. Forster	Black-billed Cuckoo			
16	Lynn	1	J. Quigley	11, 26	P.I.	1, 2	R. Forster
25	Nantucket	15	S. Perkins#	15, 19	Worc. (BMB)	2, 4	M. Lynch#
26	Plymouth B.	26	M. Rines#	15-31	Medford	4 max	M. Rines
Little Gull				22-24	Wellesley	4	R. Forster
15	Lynn	1	J. Quigley	22	N. Andover	2	D. Wilkerson
Black-headed Gull				23	IRWS	2	J. Tatro
12	Lynn	1	F. Bouchard	23	Groveland	2	J. Brown#
18	Plymouth B.	1	G. d'Entremont#	24	Gardner	3	T. Pirrou
Bonaparte's Gull				26	Provincetown	3	B. Nikula#
15	Lynn	500	J. Quigley	26	W. Newbury	2	C. Ralph#
21	Newburyport	8	S. Perkins	11-31	Reports of individuals from 20 locations		
Herring Gull x Great Black-back Gull				Yellow-billed Cuckoo			
29	Lynn	1 ad	J. Quigley	19-31	Medford	4 max	M. Rines
Iceland Gull				21-31	Wayland	1	N. Patterson
10	P.I.	1 imm	T. Aversa	22, 25	Wellesley	1, 3	R. Forster
25	Marblehead	1	R. Stymeist#	23	Boston (F.Pk)	1	T. Aversa
Lesser Black-backed Gull				23	Worcester	1	E. Banks
25	Nantucket	1 IS	S. Perkins#	23	MINWS	1	I. Lynch
26	W. Tisbury	1 IS	V. Laux#	25	Marshfield	1	D. Ludlow#
Glaucous Gull				26	ONWR	1	E. Stromsted
3	Salisbury	1	M. Rines	27	Ipswich	1	J. Berry
5, 7	Lynn	1	J. Quigley	27	MBWMA	1	H. Wiggins#
13	Newburyport	1	R. Abrams	27	Boxford	1	J. Brown#
18	N. Scituate	1 imm	W. Petersen#	Eastern Screech-Owl			
Caspian Tern				17	ONWR	1	S. Hennin
3	P.I.	1	B. Spear	25	Mt. A.	1	R. Stymeist#
4	Newburyport	1	R. Forster#	Great Horned Owl			
11	Newburyport	1	H. Wiggins#	1-31	Mt. A.	1	v.o.
15	Newburyport	1	R. Abrams	11	Milton	1	BBC (G. d'Entremont)
20	Lynn	1	J. Quigley	11	N. Scituate	1	W. Petersen
Royal Tern				18	Bolton	1	S. Hennin
25	E. Orleans	1	S. Highley#	18	Rutland	1	M. Lynch#
Roseate Tern				29	Maynard	2	L. Nachtrab#
25	Nantucket	200+	S. Perkins#	Barred Owl			
28	Marion	200+	R. Lockwood	2	Ipswich	1	J. Berry
Common Tern				5	Lincoln	2	BBC (J. Nove)
2	Saugus	1	J. Berry	18	Oxford	1	J. Young
11	P.I.	5	P. + F. Vale	18	Petersham	1	M. Lynch#
11	S. Boston	9	R. Stymeist#	18	Middleboro	1	W. Petersen#
25	Nantucket	200+	S. Perkins#	24	Boxford (C.P.)	5	R. Heil
28	Marion	500+	R. Lockwood	Short-eared Owl			
Arctic Tern				17-18	Nantucket	1	A. Jones#
19	Katama	3	A. Keith#	18	Katama	1	V. Laux#
26	Plymouth B.	5	M. Rines#	Northern Saw-Whet Owl			
Forster's Tern				4-10+	S. Wellfleet	1	C. Marti & v.o.
1	Lakeville	1 ad	M. Sylvia	18	Milton	1	G. d'Entremont#
4	P.I.	2	W. Petersen#	18	Petersham	1	M. Lynch#
27	Newbury	1 pr	T. Maloney#	Common Nighthawk			
Least Tern				11-31	Wayland	31 max	N. Patterson
19, 25	P.I.	2, 4	M. Lynch#	15	Bolton	1	S. Hennin
Black Tern				18	Gardner	2	T. Pirrou
1	Wayland	2	S. Hennin	20	Maynard	7	L. Nachtrab#
11	GMNWR	1	S. Hennin	21	Concord	20+	R. Lockwood
13	Newburyport	4	R. Abrams	21	Acton	25	J. Center
15	Still River	1	J. Williamson	22	Wayland	24	H. Parker
18-19	GMNWR	2	v.o.	22	Boxboro	5	M. Murphy
19	P.I.	1	P. + F. Vale	24, 26	Mt. A.	3, 1	R. Stymeist

Common Nighthawk (continued)	12	Falmouth	6	I. Valiella		
26 E. Boxford	6	J. Brown#	14-31	Essex	2-3	T. Young
27 IRWS	30+	D. Hill	14	MBO	8	MBO
27 Harvard	5	S. Hennin	20-21	P.I.	19 migr	S. Perkins
Chuck-will's-widow			20	N. Attleboro	pr	G. Valade
3 Chatham	1	R. Clem	24	P.I.	5	R. Heil
23 Mt.A.	1	v.o.	4-31	Reports of 1-2 indiv.	from 19	locations
26 Chatham	1	W. Bailey	Red-headed Woodpecker			
Whip-poor-will			3-31	Sherborn	1-2	E. Taylor
4 Carver	1	K. Holmes	24	Brewster	1	R. Everett
14 Mt.A.	1	v.o.	Red-bellied Woodpecker			
17 Dover	1	E. Taylor	Reports of 1-4 indiv.	from 27	locations	
20 S. Dartmouth	9	M. Boucher	Yellow-bellied Sapsucker			
21 ONWR	4	R. Lockwood	27	Petersham	1	R. Bradbury
22 Plymouth	34	G. d'Entremont	Hairy Woodpecker			
25 Nantucket	15+	S. Perkins#	23	Medford	4	M. Rines
29 Maynard	1	L. Nachtrab#	27	Ipswich	3	J. Berry
Chimney Swift			Black-backed Woodpecker			
1 N. Dartmouth	16	M. Boucher	05	Manchester	1 ph	G. Loring
2-31 Bolton	2-6	S. Hennin	Pileated Woodpecker			
2-31 Mt.A.	12 max	5/9 v.o.	1	Lincoln	1	M. Rines
15 Wakefield	9	P. + F. Vale	5	ONWR	1	R. Lockwood
20-21 P.I.	95 migr	S. Perkins	11	Lancaster	1	R. Lockwood
27 Newbury	80	S. Perkins#	14	Pepperell	1	E. Stromsted
28 Wakefield	6	P. + F. Vale	19	Princeton	1	M. Boucher
30 W. Newton	45	T. Kuklinski	19	Gloucester	1	M. Wilhelm
Ruby-throated Hummingbird			24	Groton	1	J. Young
1-31 N. Middleboro	6	K. Holmes	24	Ashby	1	J. Young
2-31 Boxford	3-5	J. Brown#	26	Petersham	1	M. Lynch#
6, 14 Middleboro	3, 4	R. Shore#	26	Quabbin (G40)	3	G. d'Entremont#
9-16 Mt.A.	4 max	5/15 v.o.				

FLYCATCHERS THROUGH GROSBEAKS

Birder's heralded the spring of 1996 as one of the best in as many as twenty years by many observers' accounts. A front came through on May 11, a bonus being not only a weekend but the North American Migration Day. The resulting fallout in eastern Massachusetts was spectacular. Birds were widespread and in fantastic numbers. Cool weather for the next four days kept many of these birds grounded, including extraordinary sparrow counts on Plum Island, including over 150 White-crowned and 22 Lincoln's sparrows.

Unusual birds during the month included a **Say's Phoebe** on Plum Island, a **Yellow-throated Warbler** in Sharon, a **Painted Bunting** in Salem, five **Dickcissels** in Westwood, a **Le Conte's Sparrow** in Newton, and a **Yellow-headed Blackbird** in Byfield.

The 40th American Ornithologists' Union (AOU) supplement to the checklist of North American Birds was put to the test this month, with the recent splitting of several species. **Bicknell's Thrush** was split from Gray-cheeked, **Bullock's Oriole** was reinstated, and Baltimore Orioles could again be seen outside of Fenway Park. Sharp-tailed Sparrows were split into two cumbersome mouthfuls: Saltmarsh Sharp-tailed Sparrow and **Nelson's Sharp-tailed Sparrow**. All these new splits were reported. R. H. S.

Olive-sided Flycatcher	24	Concord	6	R. Lockwood		
11 Lincoln	1	M. Lynch#	26	ONWR	5	E. Stromsted#
17 Milton	1	B. Zusavich	27	Ipswich	8	J. Berry
18 Gardner	1	T. Pirrou	27	Boxford	6	J. Berry
19 W. Newbury	1	R. Lewis	29	Worc. (BMB)	9	M. Lynch#
19 Cape Pogue (M.V.)	2	A. Keith#	Yellow-bellied Flycatcher			
20 P'town, N. Truro	1, 1	R. Forster	15-16	Mt.A.	1	M. Rines + v.o.
21 WBWS	1	v.o.	17	Newton	1	H. Miller
21 Maynard	1	L. Nachtrab#	18	Petersham	1	M. Lynch#
22 MNWS	1	P. + F. Vale	21-28	Boston (F.Pk)	2 max	T. Aversa
24 Gardner	1	T. Pirrou	21	Newburyport	1	J. Brown#
26 Quabbin (G45)	1	G. d'Entremont#	22, 25	Mt.A.	1, 2	R. Forster
26 MBWMA	1	C. Ralph	24	MNWS	1	R. Heil
Eastern Wood-Pewee			24	E. Gloucester	1	C. Leahy
11 Lancaster	1	R. Lockwood	25	MBWMA	2	H. Wiggin#
11 W. Brookfield	1	R. Bradbury#	25	DWWS	1	D. Ludlow#
19-31 Medford	10 max	M. Rines	25	P.I.	1	M. Lynch#
21-30 Boston (F.Pk)	4 max	T. Aversa	26	Marshfield	1	D. Ludlow#
21 Concord	7	R. Lockwood	28	Boxford	1	T. Young#

Acadian Flycatcher				13	Boston (Jam. Pl)	30	T. Aversa
12	Newburyport	1	M. Lynch#	Bank Swallow			
18	Hardwick	1	R. Bradbury	7	Burlington	30	M. Rines
23	Chilmark	1	A. Keith#	11	Bolton Flats	20	R. Lockwood
26	Quabbin (G45)	3	G. d'Entremont#	17	Concord	50	R. Forster
28	Boston (F.Pk)	1	T. Aversa	18	New Braintree	40+	M. Lynch#
Alder Flycatcher				20	P.I.	152 migr	S. Perkins
18	Bolton Flats	1	C. Ralph#	25	Nantucket	150	S. Perkins#
21-24	Boston (F.Pk)	3 max	5/24 T. Aversa	Cliff Swallow			
22	Mt.A.	1	R. Forster	11	Lunenburg	8+	R. Lockwood
24	Templeton	1	J. Young	11	E. Gloucester	4	C. Leahy
24	Gardner	3	T. Pirrou	12	Bolton Flats	1	J. Center
24	Phillipston	1	J. Young	13	Boston (Jam. Pl)	1	T. Aversa
26	Quabbin (G40)	3	G. d'Entremont#	15	Wakefield	1	P. + F. Vale
26	P.I.	1	R. Forster	17	W. Newbury	2	P. + F. Vale
26	Rowley	1	J. Berry	17	Concord	6	R. Forster
27	Groveland	2	J. Center	18	Haverhill	6-8 nests	C. Floyd#
27	Wayland	2	R. Stymeist#	20-21	P.I.	18 migr	S. Perkins
31	Concord	4	R. Lockwood	25	Rowley	25	P. + F. Vale
Willow Flycatcher				25	Nantucket	1	T. Maloney#
17	Bolton Flats	3	B. Parker	Barn Swallow			
20, 31	Concord	1	R. Lockwood	11	Lunenburg	70	R. Lockwood
20-31	Wayland	1	N. Patterson	12	SRV	400	R. Forster
20, 29	Lexington	1, 8	M. Rines	20-21	P.I.	148 migr	S. Perkins
24	Bolton Flats	7	BBC (J. Center)	swallow sp			
26	Quabbin (G40)	3	G. d'Entremont#	20-21	P.I.	600+ migr	S. Perkins
27	Wayland	10	M. Rines#	Blue Jay			
27	P.I.	3	S. Perkins#	7, 21	Provincetown	60+, 120+	B. Nikula#
Least Flycatcher				11	N. Scituate	320 migr	W. Petersen#
8-22	Mt.A.	6 max	v.o.	20-21	P.I.	3323 migr	S. Perkins
11	Lancaster	6	R. Lockwood	Fish Crow			
11	P.I.	9	P. + F. Vale	1-31	Mt.A.	9 max	v.o.
11	E. Gloucester	10	C. Leahy	7	Peabody	3 migr	N R. Heil
11	W. Newbury	8	R. Heil	8	P.I.	1	R. Heil
11	Scituate/Marshfd.	14	W. Petersen#	11	Milton	1	BBC (G. d'Entremont)
12-19	Medford	6 max	M. Rines	14	Bedford	3	M. Rines
12-19	Boston (F.Pk)	8 max	5/12 T. Aversa	26	Plymouth	1	R. Stymeist#
13	MBO	3	MBO	26	E. Orleans	1	W. Petersen#
17	Groveland	4	P. + F. Vale	Red-breasted Nuthatch			
18	W. Boxford	3	H. Wiggin#	1-31	Mt.A.	1-3	v.o.
19	ONWR	4	R. Lockwood	1	N. Dartmouth	3	M. Boucher
19	Princeton	5	M. Boucher	11	Newburyport	3	P. + F. Vale
19	MNWS	3	M. Lynch#	25	Nantucket	12	S. Perkins#
Empidonax species				27	Boxford	4	J. Berry
11	Newybpt. P.I.	6, 26	R. Forster	Brown Creeper			
13	MNWS	7	R. Forster	5	ONWR	3	G. d'Entremont#
Say's Phoebe				11	Lunenburg	3	R. Lockwood
22	P.I.	1	C. Ralph, L. Nachtrab	26	Quabbin (G45)	3	G. d'Entremont#
Great Crested Flycatcher				Carolina Wren			
1-31	Boston (F.Pk)	12 max	5/24 T. Aversa	4	MNWS	2	M. Rines
1-31	Mt.A.	6 max	5/11 v.o.	14	Bedford	1	M. Rines
3-31	Medford	7 max	M. Rines	18	Medford	1	P. + F. Vale
18	Ipswich	12	J. Berry	18	W. Boxford	1	H. Wiggin#
Eastern Kingbird				24	MNWS	2	R. Heil
1-31	Boston (F.Pk)	16 max	T. Aversa	25	Framingham	1	E. Taylor
20-21	P.I.	140 migr	S. Perkins	25	Nantucket	2	S. Perkins#
20	N. Truro	14 migr	R. Forster	House Wren			
24-26	Nantucket	30	S. Perkins#	1	Medford	2	M. Rines
Horned Lark				3	E. Gloucester	3	C. Leahy
26	Nantucket	3 ad, 1 yg	S. Perkins#	9	Worc. (BMB)	6	M. Lynch#
26	Plymouth	3	R. Stymeist#	11	W. Newbury	3	P. + F. Vale
Purple Martin				11	E. Gloucester	6	C. Leahy
4-31	Haverhill	2-5	C. Norris#	12	Gloucester	4	BBC (J. Nove)
5, 25	P.I.	35, 60	M. Lynch#	25	Salem	4	BBC (I. Lynch)
17-18	Sudbury	1	R. Forster	Winter Wren			
18	East Chop (M.V.)	1	V. Laux	12	Boston (F.Pk)	1	T. Aversa
20	Provincetown	2	R. Forster	18	Mt. Wachusett	2	R. Bradbury
21	N. Truro	1	R. Forster	18	Petersham	1	M. Lynch#
N. Rough-winged Swallow				19	Princeton	1	M. Boucher
1-31	Mt.A.	6 max	5/11 v.o.	Marsh Wren			
5	Milton	25	P. O'Neill	4	P.I.	10	R. Lockwood

Marsh Wren (continued)							
4	West Newbury	5	R. Lockwood				
8, 17	Wakefield	2, 10	P. + F. Vale				
18	IRWS	2	J. Brown#				
Golden-crowned Kinglet							
18	Barre	2	R. Bradbury#				
Ruby-crowned Kinglet							
1-15	Boston (F.Pk)	7 max 5/12	T. Aversa				
1-18	Mt.A.	7 max 5/11	v.o.				
11	Newburyport	30	P. + F. Vale				
11	P.I.	45	P. + F. Vale				
11	E. Gloucester	30+	C. Leahy				
11	N. Scituate/Marshfd.	15	W. Petersen#				
11	W. Newbury	10	R. Heil				
12	MNWS	12	P. + F. Vale				
25	P.I.	1	M. Lynch#				
28	Squibnocket	1	A. Keith#				
Blue-gray Gnatcatcher							
1-21	Boston (F.Pk)	3 max 5/7	T. Aversa				
1-31	Medford	4 max	M. Rines				
1	N. Dartmouth	4	M. Boucher				
4	Boxford (C.P.)	8	R. Heil				
5	ONWR	4	R. Lockwood				
8-19	Mt.A.	2 max	v.o.				
11	Lancaster	8	R. Lockwood				
11	N. Scituate	6	W. Petersen#				
18	Ipswich R.	6	J. Berry				
27	Boxford	3	J. Berry				
Eastern Bluebird							
1-31	Sherborn	8	E. Taylor				
1-31	S. Natick	2 pr	E. Taylor				
5	Westminster	6 BBC	(J. Kennedy)				
20	P.I.	3 migr	S. Perkins				
21	Boston (F.Pk)	1	T. Aversa				
Veery							
4-19	Mt.A.	7 max 5/11	v.o.				
4	P.I.	1	P. + F. Vale				
7-24	Boston (F.Pk)	6 max 5/21	T. Aversa				
11, 27	Ipswich	2, 4	J. Berry				
12	MNWS	3	P. + F. Vale				
12	P.I.	10	M. Lynch#				
15, 23	Boxford (C.P.)	1, 4	J. Brown#				
19	Provincetown	6	B. Nikula#				
24	Concord	4	R. Lockwood				
26	Quabbin (G45, 40)	10, 10G.	d'Entremont				
27	Boxford	6	J. Berry				
27	ONWR	4	M. Rines#				
Gray-checked Thrush							
11, 13	Brookline	1, 1	H. Wiggin#				
12-25	Mt.A.	1	v.o.				
12	P.I.	1	M. Lynch#				
15	Worc. (BMB)	1	M. Lynch#				
25	Provincetown	1	B. Nikula#				
26	Brewster	1	B. Nikula#				
Bicknell's Thrush							
13	MNWS	1	R. Forster				
25	Nantucket	1	S. Perkins#				
Gray-checked/Bicknell's Thrush							
25	Nantucket	1	S. Perkins#				
19-24	Boston (F.Pk)	2 max 5/24	T. Aversa				
11	Boston	1	R. Stymeist#				
Swainson's Thrush							
11-24	Mt.A.	30 max 5/11	v.o.				
11	Newburyport	1	P. + F. Vale				
11	E. Gloucester	6	C. Leahy				
11	Milton	7 BBC	(G. d'Entremont)				
12-30	Boston (F.Pk)	17 max 5/24	T. Aversa				
13	Boston (Muddy R.)	11	T. Aversa				
19	Provincetown	15	B. Nikula#				
19	Hingham (W.E.)	8	N. Swirka				
19	M.V.	50+	v.o.				
25	Marshfield	25	D. Ludlow#				
Hermit Thrush							
1-13	Boston (F.Pk)	6 max 5/1	T. Aversa				
1-18	Mt.A.	4 max 5/1	v.o.				
11	E. Gloucester	4	C. Leahy				
12	MNWS	4	P. + F. Vale				
21	Concord	5	R. Lockwood				
26	Petersham	16	M. Lynch#				
27	Ipswich	5	J. Berry				
Wood Thrush							
1-30	Boston (F.Pk)	5 max 5/12	T. Aversa				
4-24	Mt.A.	4 max 5/12	v.o.				
4	P.I.	2	P. + F. Vale				
5-31	Medford	11 max	M. Rines				
11	Lancaster	14	R. Lockwood				
11	Ipswich	9	J. Berry				
12	Newbypt/P.I.	8	J. Berry				
21	Concord	14	R. Lockwood				
Gray Catbird							
1-31	Boston	62 max 5/12	T. Aversa				
11	N. Scituate/Marshfd.	100+	W. Petersen#				
12	P.I.	60+	M. Lynch#				
13	MBO	52	MBO				
Brown Thrasher							
1-31	Medford	5 max	M. Rines				
2	P.I.	10	M. Rines				
4	Melrose	3	D. + I. Jewell				
16	Boston (F.Pk)	4	T. Aversa				
20	Hanscom Field	2	R. Lockwood				
American Pipit							
5	N. Attleboro	1	G. Valade				
7	Acton	2	R. Forster#				
11	E. Gloucester	10	C. Leahy				
18	Plymouth	1	P. O'Neil				
19	Newburyport	3	T. Young				
Cedar Waxwing							
20-21	P.I.	568 migr	S. Perkins				
White-eyed Vireo							
5	MNWS	1	L. Healey				
11	Marshfield	1	W. Petersen#				
18	Nahant	1	C. Floyd#				
19	Provincetown	1	J. Trimble#				
19	East Chop (M.V.)	1	V. Laux				
19	S. Dartmouth	1	M. Boucher				
21	P.I.	1	T. Young				
26	Brewster	1	B. Nikula#				
26	E. Orleans	1	W. Petersen#				
27	Chatham	2	W. Petersen#				
Solitary Vireo							
1-22	Mt.A.	10 max 5/11	v.o.				
1-24	Boston (F.Pk)	21 max 5/12	T. Aversa				
3-24	Medford	9 max 5/14	M. Rines				
11	Ipswich	6	J. Berry				
11	Newburyport	6	R. Forster				
11	E. Gloucester	22	C. Leahy				
11	W. Newbury	31	R. Heil				
11	N. Scituate/Marshfd.	9	W. Petersen#				
12	MNWS	6	P. + F. Vale				
12	P.I.	21	M. Lynch#				
12	Gloucester	6	BBC (J. Nove)				
19	Provincetown	10+	B. Nikula#				
Yellow-throated Vireo							
5	Medford	2	M. Rines				
11	Lancaster	3	R. Lockwood				
25	ONWR	3	BBC (J. Center)				
28	Wayland	2	N. Patterson				
5-31	Reports of individuals from 20 locations						
Warbling Vireo							
5-30	Boston (F.Pk)	8 max 5/15	T. Aversa				
11	Lancaster	10	R. Lockwood				
11	Mt.A.	5 max	v.o.				

Warbling Vireo (continued)

18	Ipswich R.	26	J. Berry
19	East Chop (M.V.)	15	V. Laux#
19	Hingham	10	BBC (N. Swirka)
22	Lynnfield	6	J. Brown#
29	Lexington	5	M. Rines

Philadelphia Vireo

11	ONWR	1	B. Parker
19, 21	Provincetown	3, 1	B. Nikula#
19	East Chop (M.V.)	1	V. Laux
23	Braintree	1	G. d'Entremont
25	P.I.	1	E. Banks
25	MNWS	1	R. Stymeist#
26	Nantucket	1	S. Perkins#

Red-eyed Vireo

5-31	Medford	13 max	M. Rines
11-24	Mt.A.	9 max 5/24	v.o.
11	E. Gloucester	3	C. Leahy
12-30	Boston (F.Pk)	6 max 5/21	T. Aversa
15	Worc. (BMB)	8	M. Lynch#
24	Concord	7	R. Lockwood
24	Boxford (C.P.)	25+	R. Heil
26	Quabbin (G45, 40)	18, 13G.	d'Entremont
27	Boxford	13	J. Berry
27	Ipswich	12	J. Berry

Blue-winged Warbler

1	N. Dartmouth	3	M. Boucher
9, 15	Worc. (BMB)	8, 10	M. Lynch#
11	Lancaster	3	R. Lockwood
11	W. Newbury	14	R. Heil
12-31	Medford	4 max	M. Rines
18	IRWS	11	J. Berry
19	Groveland	8	J. Brown#
19	Georgetown	9	M. Lynch#
24	Concord	5	R. Lockwood
25	ONWR	4	BBC (J. Center)
8-13	Wayland	1-7	N. Patterson

Golden-winged Warbler

14, 15	Mt.A.	3, 2	v.o.
14	Lynn	1	J. Quigley
14	Medford	1	M. Rines
17-31	Groveland	1	v.o.
20	W. Newton	1	T. Kuklinski
22	N. Brookfield	1	E. Banks#
25	Provincetown	1	CCBC
29	Natick	1	W. Petersen#

"Brewster's" Warbler

14-31	N. Attleboro	1 m ph	G. Valade
10	Newbury	1	T. Aversa#
26	Quabbin (G45)	1	G. d'Entremont#

"Lawrence's" Warbler

21	Franklin	1 m ph	C. Bailey
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Tennessee Warbler

5-24	Mt.A.	4 max 5/15	v.o.
14-23	Medford	3 max 5/14	M. Rines
15, 23	Worcester	1, 2	M. Lynch#
15-24	Boston (F.Pk)	3 max 5/21	T. Aversa
17-18	Nantucket	2	T. Maloney#
18	Hardwick	2	R. Bradbury
19	Hingham	6	BBC (N. Swirka)
24	E. Gloucester	3	C. Leahy

Nashville Warbler

1-22	Mt.A.	20 max 5/12	v.o.
5-20	Medford	13 max 5/12	M. Rines
7-23	Boston (F.Pk)	12 max 5/13	T. Aversa
11	Boston (F.P.)	12	J. Young
11	W. Newbury	15	R. Heil
13	Boston (Muddy R.)	9	T. Aversa
17-18	Nantucket	5	T. Maloney#
19	Provincetown	12	B. Nikula#
5, 12	Newburyport	1, 7	M. Lynch#

Northern Parula

1-23	Boston (F.Pk)	53 max 5/12	T. Aversa
1-24	Medford	23 max 5/14	M. Rines
2-22	Mt.A.	20 max 5/11	v.o.
10	P.I.	43	T. Aversa#
11, 19	Provincetown	25+, 20	B. Nikula
11	Newburyport	40	P. + F. Vale
11	E. Gloucester	40+	C. Leahy
11	W. Newbury	26	R. Heil
11	N. Scituate/Marshfd.	62	W. Petersen#
15	Danvers	20	J. Brown#
26	E. Orleans	2	W. Petersen#
27	P.I.	2	S. Perkins#

Yellow Warbler

1-30	Boston (F.Pk)	10 max	T. Aversa
1-31	Mt.A.	10 max 5/11	v.o.
9, 15	Worc. (BMB)	15, 20	M. Lynch#
11	Lancaster/Lunenburg	61	R. Lockwood
11	GMNWR	42	F. Gardner
12	Gloucester	35	BBC (J. Nove)
17	Wakefield	22	P. + F. Vale
18	Ipswich R.	45	J. Berry
25	P.I.	60	E. Stromsted#

Chestnut-sided Warbler

1-24	Boston (F.Pk)	9 max 5/12	T. Aversa
2-24	Mt.A.	10 max 5/11	v.o.
11	Lancaster	10	R. Lockwood
11	N. Scituate/Marshfd.	14	W. Petersen#
12-28	Medford	10 max 5/12	M. Rines
19	Provincetown	10	B. Nikula#

Magnolia Warbler

7-24	Mt.A.	20 max 5/11	v.o.
11	P.I.	25	P. + F. Vale
11	Newburyport	40	P. + F. Vale
11	E. Gloucester	23	C. Leahy
11	Newburyport	12	R. Forster
11	N. Scituate/Marshfd.	118	W. Petersen#
11	W. Newbury	28	R. Heil
12, 19, 26	P'town	14, 35, 14	B. Nikula
12-24	Medford	42 max 5/12	M. Rines
12-30	Boston (F.Pk)	25 max 5/21	T. Aversa
17-18	Nantucket	40	T. Maloney#
19	M.V.	160+	v.o.

Cape May Warbler

11-19	Mt.A.	5 max 5/15	v.o.
11	Lancaster	1	R. Lockwood
11	E. Gloucester	5	C. Leahy
12	Boston (F.Pk)	1	T. Aversa
12	Lincoln	1	S. Hennin
13	Wenham	2	N. Nash
13	P.I.	1	B. Parker
16	Danvers	1	J. Brown#
17	Worcester	1	M. Lynch#
18	Bolton Flats	1	R. Bradbury
19	Newburyport	1	P. + F. Vale

Black-throated Blue Warbler

1-24	Boston (F.Pk)	7 max 5/12	T. Aversa
5-22	Mt.A.	20 max 5/11	v.o.
10-24	Medford	24 max 5/12	M. Rines
11	E. Gloucester	32	C. Leahy
11	Boston (F.P.)	12	J. Young
11	N. Scituate/Marshfd.	38	W. Petersen#
11	Newburyport	12	R. Forster
12	Gloucester	16	BBC (J. Nove)
27	P.I.	1 f	T. Maloney#

Yellow-rumped Warbler

1-22	Mt.A.	80 max 5/11	v.o.
1-24	Medford	76 max 5/12	M. Rines
1-28	Boston (F.Pk)	120 max 5/12	T. Aversa
11	P.I.	100+	P. + F. Vale
11	Newburyport	100+	P. + F. Vale

Yellow-rumped Warbler (continued)			
11	E. Gloucester	225	C. Leahy
11	Boston (F.P.)	200	J. Young
11	N. Scituate/Marshfld.100+		W. Petersen#
11	W. Newbury	350	R. Heil
26	MBWMA	1	C. Ralph
Black-throated Green Warbler			
1-22	Mt. A.	50 max 5/11	v.o.
1-24	Boston (F.Pk)	33 max 5/12	T. Aversa
3-24	Medford	60 max 5/12	M. Rines
11	N. Scituate/Marshfld.	42	W. Petersen#
11	Ipswich	32 m	J. Berry
11	W. Newbury	42	R. Heil
11	E. Gloucester	18	C. Leahy
17-18	Nantucket	26	T. Maloney#
19	Provincetown	15	B. Nikula#
Blackburnian Warbler			
5-24	Mt. A.	35 max 5/11	v.o.
11	N. Scituate	6	W. Petersen#
11	E. Gloucester	5	C. Leahy
12, 13	Mt. A.	8	R. Lockwood
12-20	Medford	16 max 5/12	M. Rines
12-28	Boston (F.Pk)	9 max 5/12	T. Aversa
17-18	Nantucket	16	T. Maloney#
19	Provincetown	15	B. Nikula#
19	Hingham	12	BBC (N. Swirka)
24-26	Nantucket	10	S. Perkins#
25	P.I.	5	P. + F. Vale
Yellow-throated Warbler			
11	Sharon	1	P. Dorcus
Prairie Warbler			
2-19	Mt. A.	1-2	v.o.
11	Milton	7	BBC (G. d'Entremont)
29	Groveland	10	R. Lockwood
Palm Warbler			
1-12	Mt. A.	8 max 5/1	v.o.
1-13	Boston (F.Pk)	10 max 5/1	T. Aversa
11	P.I.	4	R. Forster
11	E. Gloucester	6	C. Leahy
Bay-breasted Warbler			
11-24	Mt. A.	5 max 5/19	v.o.
12-23	Medford	4 max 5/20	M. Rines
15-24	Boston (F.Pk)	4 max 5/21	T. Aversa
17-18	Nantucket	5	T. Maloney#
19	Provincetown	12	B. Nikula#
19	Rochester	4	M. LaBossiere
21	Worcester	4	E. Banks
25	P.I.	8	E. Stromsted#
25	Nantucket	4	T. Maloney#
25	Newburyport	3	M. Lynch#
Blackpoll Warbler			
9-24	Mt. A.	22 max 5/24	v.o.
12-31	Medford	8 max 5/24	M. Rines
15-30	Boston (F.Pk)	23 max 5/24	T. Aversa
17-18	Nantucket	18	T. Maloney#
19, 26	Provincetown	15, 18	B. Nikula#
22	MBWMA	60+	C. Ralph#
24-26	Nantucket	12	S. Perkins#
24	E. Gloucester	25	C. Leahy
Cerulean Warbler			
11-12	Mt. A.	1	v.o.
17-18	Nantucket	1	T. Maloney#
17	Brighton	2 m	D. Morimoto
24	Boxford (C.P.)	1 m	R. Heil
27	Quabbin (G40)	1	R. Bradbury
Black-and-white Warbler			
1-22	Mt. A.	25 max 5/11	v.o.
1-23	Boston (F.Pk)	54 max 5/12	T. Aversa
1-31	Medford	43 max 5/12	M. Rines
11	W. Newbury	35	R. Heil
11	Ipswich	12	J. Berry
11	N. Scituate/Marshfld.	81	W. Petersen#
11	E. Gloucester	35	C. Leahy
12	Newbypt, P.I.	15, 45	M. Lynch#
American Redstart			
8-24	Mt. A.	15 max 5/11	v.o.
11	N. Scituate/Marshfld.	26	W. Petersen#
11	E. Gloucester	18	C. Leahy
12-28	Medford	19 max 5/12	M. Rines
12-30	Boston (F.Pk)	24 max 5/21	T. Aversa
25	P.I.	53	M. Lynch#
26	Provincetown	12	B. Nikula#
Prothonotary Warbler			
3-5	W. Newton	1 m	T. Kuklinski + v.o.
10	Hingham (W.E.)	1	J. Sisson
22	Abington	1 m	L. Conover
26	Nantucket	1 m	S. Perkins#
Worm-eating Warbler			
5-6	Edgartown	1	G. Daniels
11	S. Boston	1	R. Donovan
11	N. Middleboro	2	K. Holmes
11	Milton	3	BBC (G. d'Entremont)
12-17	Mt. A.	1	v.o.
13	Provincetown	1	J. Sones#
15	ONWR	1	R. Bradbury
18	Medford	1	P. + F. Vale
18	Milton	1	P. O'Neil
19	Hingham	2	BBC (N. Swirka)
23	Wayland	1	D. Lange
Ovenbird			
1-24	Mt. A.	11 max 5/12	v.o.
1	Bedford	1	M. Rines
5-31	Medford	27 max 5/12	M. Rines
7-24	Boston (F.Pk)	24 max 5/12	T. Aversa
11	Milton	13	BBC (G. d'Entremont)
11	Ipswich	52	J. Berry
11	N. Scituate/Marshfld.	28	W. Petersen#
11	Newburyport	15	R. Forster
12	P.I.	15	M. Lynch#
13	MNWS	12	R. Forster
14	Concord	13	R. Lockwood
27	Boxford	16	J. Berry
Northern Waterthrush			
1-28	Boston (F.Pk)	6 max 5/24	T. Aversa
1	E. Middleboro	6	K. Anderson
5-14	Medford	4 max 5/12	M. Rines
5-18	Mt. A.	6 max 5/14	v.o.
5, 11	Ipswich	3, 2	J. Berry
11	N. Scituate/Marshfld.	7	W. Petersen#
11	E. Gloucester	8	C. Leahy
12	P.I.	14	M. Lynch#
17-18	Nantucket	4	T. Maloney#
4-31	Reports of 1-2 indiv.		from 16 locations
Louisiana Waterthrush			
1	Rockport	1	J. Young
11	Ipswich	1	J. Berry
11	W. Newbury	1	R. Heil
14	Worcester	1	E. Banks
15	Boxford (C.P.)	2	J. Brown#
20	Franklin	20	C. Bailey
26	Petersham	1	M. Lynch#
Kentucky Warbler			
5	S. Natick	1	B. Bowler
21	Essex	1	T. Young
22	MNWS	1	P. + F. Vale
22	Worcester	1 f	E. Banks
27	IRWS	1 m	W. Tatro
Mourning Warbler			
11	Newburyport	1	E. Banks
18	Gardner	1	T. Pirrou
21-24	Boston (F.Pk)	1-2	T. Aversa
22	Provincetown	1	S. Highley

Mourning Warbler (continued)				11, 27	Ipswich	8, 12	J. Berry
23-24	Wellesley	1	R. Forster	11	Lancaster	7	R. Lockwood
24	Medford	1	P. + F. Vale	12-31	Medford	6 max	M. Rines
24	Boxford	1	R. Heil	15, 29	Worc. (BMB)	4, 3	M. Lynch#
24-25	Mt.A.	1	v.o.	17-18	Nantucket	5	T. Maloney#
24	E. Gloucester	2	C. Leahy	19	World's End	5	N. Swirka
24	MNWS	1	R. Heil	19	Hingham	5	BBC (N. Swirka)
24	Cummaquid	1	S. + E. Miller	22	MBWMA	30	C. Ralph#
25	Marshfield	1 m	D. Ludlow#	24	Concord	5	R. Lockwood
26	Yarmouthport	1	S. + E. Miller	27	Boxford	5	J. Berry
26	Marshfield	1 f	D. Ludlow#	Rose-breasted Grosbeak			
Common Yellowthroat				5-24	Mt.A.	13 max	5/15 v.o.
1-30	Boston (F.Pk)	26 max	T. Aversa	7	Woburn	1	M. Rines
5-31	Mt.A.	8 max	5/11 v.o.	11	Lancaster	9	R. Lockwood
9, 15, 29	Worc. (BMB)	8, 37, 19	M. Lynch#	11	P.I.	8	P. + F. Vale
11	Newbypt, P.I.	15, 65	R. Forster	11	E. Gloucester	23	C. Leahy
11	E. Gloucester	25	C. Leahy	11	P.I.	11	R. Forster
11	N. Scituate/Marshfd.	100	W. Petersen#	11	Milton	6	BBC (G. d'Entremont)
12-31	Medford	22 max	5/12 M. Rines	11	N. Scituate/Marshfd.	8	W. Petersen#
18	Ipswich R.	66	J. Berry	12	Gloucester	18	BBC (J. Nove)
19	ONWR	30+	R. Lockwood	18	Ipswich R.	21	J. Berry
Hooded Warbler				19	Provincetown	10	B. Nikula#
1	Medford	1 m	M. Rines	Blue Grosbeak			
8-9, 14-15	Mt. A.	1 f, 1 m	v.o.	4-5	Duxbury	1 m	D. Murphy
11	N. Scituate	1	T. Aversa#	12-13	Lexington	1 m	L. Ellis
11	Marshfield	1	T. Aversa#	13	Pepperell	1 m	N. McLeod
11	Westboro	1	M. Lynch#	18	Abington	1 m	K. Holmes#
14-15	Worc. (BMB)	1	R. Bradbury + v.o.	18	Eastham (F.H.)	1	E. Banks#
14	Chatham	1	R. Clem	Indigo Bunting			
20	Bedford	1 m	F. Gardner	11-24	Mt.A.	2 max	5/12 v.o.
23	MNWS	1	I. Lynch	11	Lunenburg	2	R. Lockwood
Wilson's Warbler				12-31	Medford	4	M. Rines
11-24	Mt.A.	1-2	v.o.	17-18	Nantucket	2	T. Maloney#
11	W. Newbury	1	P. + F. Vale	17	Haverhill	2	C. Norris#
11-27	P.I.	1-2	v.o.	19-30	Boston (F.Pk)	5 max	T. Aversa
11	N. Scituate/Marshfd.	6	W. Petersen#	29	Groveland	5	R. Lockwood
12-24	Boston (F.Pk)	6 max	5/23 T. Aversa	Painted Bunting			
12	Wayland	1	N. Patterson	14-15	Salem	1 m	C. Lipson
14-24	Medford	1-2	M. Rines	Dickcissel			
18	Woburn	1	P. + F. Vale	21	Westwood	5	E. Nielsen
19	ONWR	1	R. Lockwood	Clay-colored Sparrow			
19	MNWS	4	M. Lynch#	24	P.I.	1	W. Taitrow
24	W. Barnstable	1	S. + E. Miller	Field Sparrow			
24	N. Middleboro	2	K. Holmes	11	Lunenburg	3	R. Lockwood
Canada Warbler				2	Mt.A.	3	v.o.
11-24	Mt.A.	5 max	5/16 v.o.	29	Groveland	10	R. Lockwood
11	N. Scituate/Marshfd.	7	W. Petersen#	9, 29	Worc. (BMB)	11, 11	M. Lynch#
12-28	Boston (F.Pk)	7 max	5/21 T. Aversa	Vesper Sparrow			
12-31	Medford	7 max	5/14 M. Rines	4, 31	N. Attleboro	1, 2	G. Valade
17-18	Nantucket	5	T. Maloney#	25	Provincetown	2	M. Sylvia
19	Provincetown	10	B. Nikula#	26	Plymouth	6	R. Stymeist#
19	Newburyport	5	T. Young	Savannah Sparrow			
24	E. Gloucester	8	C. Leahy	4	N. Attleboro	15	G. Valade
27	P.I.	6	S. Perkins#	7	Acton	20	R. Forster#
27	Boxford (C.P.)	4	J. Berry	11	Ipswich	30	R. Forster
Yellow-breasted Chat				11	P.I.	35	R. Forster
5	Boston (F.Pk)	1	T. Aversa	12	Gloucester	12	BBC (J. Nove)
13	MBO	1	MBO	12	Cumb. Farms	12	R. Shore
19	Provincetown	1	B. Nikula#	20	Bedford (Hanscom)	20	R. Lockwood
26	E. Orleans	1	W. Petersen#	Grasshopper Sparrow			
warbler sp				16	Pepperell	1	E. Stromsted
20-21	P.I.	250+ migr	S. Perkins	23	Auburn	2	R. Bradbury
Summer Tanager				26	Plymouth	4	R. Stymeist#
12-16	Brewster	1	R. Everett	31	Bedford (Hanscom)	3	R. Lockwood
14	Chatham	1	R. Clem	Le Conte's Sparrow			
17	Boylston	1	R. Bradbury	19	Newton	1	L. Nachtrab
19	Mt.A.	1	N. King	Saltmarsh Sharp-tailed Sparrow			
21	Provincetown	1 f	R. Forster#	19	P.I.	4	M. Lynch#
25	Provincetown	1 imm m	B. Nikula#	27	PI, Newburyport	10	R. Lockwood
Scarlet Tanager				Nelson's Sharp-tailed Sparrow			
5-24	Mt.A.	6 max	5/19 v.o.	16	Boston (F.Pk)	1	T. Aversa

"Sharp-tailed Sparrow"				12	Cumb. Farms	6	R. Shore
25	Nantucket	2	S. Perkins#	20	Bedford (Hanscom)	16	R. Lockwood
04	WBWS	1	J. Young	Yellow-headed Blackbird			
Seaside Sparrow				30	Byfield	1 m	T. Beaupre
19	P.I.	1	M. Lynch#	Rusty Blackbird			
Lincoln's Sparrow				1	Bedford	1	F. Gardner
11-19	Mt.A.	3 max 5/14	v.o.	1	GMNWR	14	S. Perkins#
11	N. Scituate/Marshfld.	3	W. Petersen#	Orchard Oriole			
11	E. Gloucester	13	C. Leahy	1-22	Mt.A.	3 max 5/11	v.o.
11	W. Newbury	4	R. Heil	1-31	Haverhill	5	C. Norris#
12	Gloucester	4	BBC (J. Nove)	5	Watertown	3	G. d'Entremont#
12	P.I.	22	M. Lynch#	8-30	Boston (F.Pk)	5 max	T. Aversa
12, 19	Provincetown	4, 1	B. Nikula#	13	MBO	3	MBO
13	MBO	3	MBO	16	Boston (A.A.)	5	J. Young
10-27	Reports of 1-2 indiv. from 24 locations			17-18	Nantucket	3	T. Maloney#
Swamp Sparrow				19	Hingham	6	BBC (N. Swirka)
13	MBO	10	MBO	27	P.I.	3	S. Perkins#
17	Wakefield	10	P. + F. Vale	2-31	Reports of 1-2 indiv. from 27 locations		
19	ONWR	20	R. Lockwood	Bullock's Oriole			
White-throated Sparrow				15	Mt.A.	1	M. Rines + v.o.
1-18	Mt.A.	50 max 5/11	v.o.	Baltimore Oriole			
1-28	Boston (F.Pk)	103 max 5/13	T. Aversa	3	Lakeville	2	R. Turner
11	E. Gloucester	70+	C. Leahy	7-30	Boston (F.Pk)	38 max 5/13	T. Aversa
12, 14	Provincetown	250, 100+	B. Nikula	11	Lancaster	19	R. Lockwood
12	P.I.	480+	M. Lynch#	11	P.I.	27	R. Forster
White-crowned Sparrow				11	E. Gloucester	40	C. Leahy
4, 12	P.I.	1, 150+	R. Forster, M. Lynch	11	W. Newbury	22	R. Heil
6-15	Mt.A.	6 max 5/11	v.o.	18	Ipswich R.	67	J. Berry
11	W. Newbury	4	P. + F. Vale	Purple Finch			
11	E. Gloucester	14	C. Leahy	5, 11	Ipswich	2, 2	J. Berry
11	Bolton Flat	50	R. Staub#	5	Westminster	2	BBC (J. Kennedy)
11	Danvers	5	J. Gordon	11	Mt.A.	2	v.o.
12	Brookline	5	H. Wiggin#	12	P.I.	7	M. Lynch#
12	Gloucester	28	BBC (J. Nove)	19	Provincetown	15	B. Nikula#
7-26	Reports of 1-3 indiv. from 24 locations			Red Crossbill			
Dark-eyed Junco				7	Worcester	4	E. Banks
1-21	Boston (F.Pk)	1-2	T. Aversa	12	P.I.	3	M. Lynch#
12	P.I.	1	M. Lynch#	14	Mashpee	4	I. Smith
12	Ipswich	1	J. Berry	20	N. Truro	2	R. Forster
Bobolink				21	Harwich	12	R. Forster
2-31	Wayland	75 max 5/15	N. Patterson	25	M.V.	12	V. Laux#
12	Cumb. Farms	30	R. Shore	Pine Siskin			
13	Lexington	12	L. Brown	9-25	Provincetown	3 max	v.o.
15	Beverly	46	J. Brown#	18	M.V.	1	V. Laux
18	Eastham (F.H.)	20+	B. Nikula#	28	Lincoln	1 juv	W. Harrington
18	E. Boston (B.I.)	20	E. Taylor	American Goldfinch			
19	Provincetown	20	B. Nikula#	20-21	P.I.	761 migr	S. Perkins
19	S. Orleans	25+	K. McGinley	Evening Grosbeak			
19	Hingham (W.E.)	45	N. Swirka	1-12	Provincetown	10+ max	B. Nikula#
20-21	P.I.	105 migr	S. Perkins	3	Pepperell	3	L. High
23	W. Newbury	20	BBC (S. Grinley)	4	W. Newbury	5	R. Heil
25	P.I.	25	M. Lynch#	11	E. Gloucester	2	C. Leahy
26	Rowley	30+	J. Berry	11	N. Scituate	1	W. Petersen#
26	Pepperell	20	E. Stromsted	16	Chelmsford	1	A. Wadja
Eastern Meadowlark				18	Gardner	2	T. Pirrou
5	Newburyport	4	M. Lynch#				

Corrigendum

For bird sightings for April 1996 in Volume 24, Number 4

Yellow-throated Vireo
4/6 Nantucket 1 C. Jackson

should read:

Yellow-throated Warbler
4/6 Nantucket 1 C. Jackson

BIRD SIGHTINGS

JUNE 1996

SUMMARY



by Richard A. Forster, Marjorie W. Rines, and Robert H. Stymeist

Cloudy weather dominated the month, and although it rained frequently, it did not amount to much. The temperature averaged 68.1°, 0.4° higher than normal. The first half of the month was considerably above normal, but from the 18th to the 30th there was only one day with temperatures above average. Despite 15 days with measurable rain, it totaled only 1.25 inches, 1.84 inches less than normal.

LOONS THROUGH WOODPECKERS

The Common Loon migration lasted until the beginning of the month. Two Red-necked Grebes were summering again in Gloucester. The presence of Red-necked Grebes in summer is a recent phenomenon coinciding with their general increase as a spring migrant. There was only a scattering of reports for shearwaters and storm-petrels until late in the month when Greater and Sooty shearwaters and Wilson's Storm-Petrels were plentiful off Chatham. Most noteworthy of the other reports were three very early Cory's Shearwaters in Nantucket Sound. The bulk of the heron reports emanated from Kettle Island in Manchester, which supports a varied and thriving heronry. A few Tricolored Herons were noted during the month. The only Yellow-crowned Night-Heron report was from Northbridge, a decidedly unusual inland location. Freshwater ducks presented no surprises, with reports as usual concentrated at Plum Island and South Monomoy. Likewise, sea ducks were routine with 25 Black Scoters on Martha's Vineyard being a rather large number. Also gracing the Vineyard was a **Black Vulture** present for two days. The scarcity of hawk reports is due to their secretive habits when nesting. The Sharp-shinned Hawk nesting in Holliston is one of very few recent breeding records for the species. A second pair of Peregrine Falcons bred in Boston, and another new breeding pair was located in Fall River.

The only rail reported in significant numbers was Virginia Rail from well scattered locations. The scarcity of other species is probably indicative of how scarce they really are. An obliging King Rail was consistently vocal for the better part of the month in West Harwich. Common Moorhen was reported only at Plum Island. Shorebird reports for the month fall into several categories. Most reports during the first week represent the tail end of spring migration. Reports late in the month are the vanguard of fall migration - typically early returning species such as Least Sandpiper, Short-billed Dowitcher, Lesser Yellowlegs, and Hudsonian Godwit. In between, other than resident species, are a number of oddballs that conventional wisdom considers one-year-old non-breeders that are just wandering around showing no discernible pattern as to when or where they will appear. In past years some of our rarest shorebirds have appeared in mid-June. This year's candidate is the Curlew Sandpiper found at North Monomoy, where a Pectoral Sandpiper on June 6 was very unseasonal.

Parasitic Jaeger was a welcome addition for the month. Two **Little Gulls** were in attendance with the numerous Bonaparte's Gulls at Lynn Beach at midmonth. This location is now possibly the most reliable area for Little Gull. A couple of wandering Royal Terns were seen during the month, and a pair of Forster's Terns were present in the Plum Island marshes where they have nested for several years. Scattered reports of Black Tern spanned the month. An **Atlantic Puffin** was reported late in the month from waters off Cape Cod. In spite of its rarity, this is the alcid most frequently reported in our waters during the summer months.

For the second consecutive year a **Band-tailed Pigeon** was reported during June. This species is not on the Massachusetts Avian Records Committee official state list. The remote location of this individual on Nantucket lends credence to it being a *bona fide* wild bird. Both species of cuckoo seemed to be well reported. A Chuck-will's-widow made a surprise visit to downtown Boston at midmonth. This species is as likely to be recorded in June as it is in May.

R. A. F.

Date	Location	Number	Observers	Date	Location	Number	Observers
Red-throated Loon				thr	Hamilton	10-15	C. Cusson
25	Barnstable (S.N.)	1	S. + E. Miller	2	Ipswich	1	SSBC (W. Petersen)
Common Loon				17	Salem (Eagle I.)	4 pr	S. Perkins#
1	Provincetown	24 migr.	B. Nikula	Green Heron			
16	Quabbin	1	R. Lockwood	7	Nashawena I.	4	A. Jones#
29	Rockport	3	M. Lynch#	8	S. Groveland	2BBS	(R. Stymeist)
Pied-Billed Grebe				Black-crowned Night-Heron			
29	P.I.	1	P. + F. Vale	1	Manchester (KI)	12 pr	S. Perkins#
Red-necked Grebe				3	Medford	55	M. Rines
thru	E. Gloucester	2 br. pl	J. Soucy	15	Salem	11	I. Lynch
Cory's Shearwater				16	Camb. (C. River)	25	J. Samelson
14	Nant. Sound	3	S. Perkins#	17	Salem (Eagle I.)	50 pr	S. Perkins#
Greater Shearwater				28	Hingham	7	N. Swirka
1	Stellwagen	1	L. Healey	Yellow-crowned Night-Heron			
29	21 mi SE Chatham	600	S. Highley	1-29	Northbridge	1 ad	D. Morus
Sooty Shearwater				Glossy Ibis			
1-7	Vineyard Sd	20	A. Goldman	1	Topsfield	4	P. + F. Vale
1	M.V. (Wasque Pt)	6	A. Keith#	1	Manchester (KI)	60 nests	S. Perkins#
26-28	M.V.	12	V. Laux	17	Salem (Eagle I.)	2-3 pr	S. Perkins#
29	22 mi SE Chatham	600	S. Highley	30	P.I.	30+	C. Cusson#
Manx Shearwater				Whooper Swan			
1-7	Vineyard Sound	3	A. Goldman	20	Ipswich	2	R. Stymeist#
15	Woods Hole	1	K. Harte	Brant			
26-28	M.V.	4	V. Laux	1	Quincy	1	E. Taylor
29	23 mi SE Chatham	2	S. Highley	1	Plymouth	6	BBC (G. d'Entremont)
Wilson's Storm-Petrel				Wood Duck			
4	Vinyard Sound	1	A. Jones#	8	GMNWR	30	M. Lynch#
14	Nant. Sound	6	S. Perkins#	15	Salem	9	I. Lynch
15	Jeffries Ledge	200	C. Floyd	16	Medford f + 12 yg	BBC	(M. Rines)
22	Cape Ann	62	J. Soucy	16	Wakefield	1lad	P. + F. Vale
25	Barnstable (S.N.)	3	S. + E. Miller	Green-Winged Teal			
28	Boston (Deer I.)	12	M. Hall	7	N. Falmouth	1	S. + E. Miller
29	Wellfleet Harbor	20	R. Prescott	8	N. Andover	2	J. Berry
29	20 mi SE Chatham	1500+	S. Highley	9	S. Dartmouth	1	M. Boucher
Northern Gannet				20	P.I.	3	R. Stymeist#
1-7	Vineyard Sound	10	A. Goldman	29	S. Monomoy	20	B. Gette
15	Jeffries Ledge	20	C. Floyd	Blue-winged Teal			
22	Gloucester	3	J. Soucy	2	P.I. Sound	2	S. Perkins#
23	P.I.	5	D. Chickering	15	Salem	2	I. Lynch
29	24 mi SE Chatham	6	S. Highley	Northern Shoveler			
Least Bittern				29	S. Monomoy	2	B. Gette
thr	P.I.	1-3	v.o.	Gadwall			
5	Cotuit	1	S. + E. Miller	7	Nashawena I.	1	A. Jones#
21	DWWS	1	D. Clapp	23	P.I.	24	D. Chickering
Great Blue Heron				29	S. Monomoy	12	B. Gette
8	Westboro	37 nests	E. Taylor	American Wigeon			
Great Egret				2	P.I.	1	SSBC (W. Petersen)
1	Manchester (KI)	40 pr	S. Perkins#	Common Eider			
6	N. Monomoy	5	B. Nikula	7	Nashawena I.	6 pr	A. Jones#
30	P.I.	50+	C. Cusson#	9	S. Dartmouth	8 ad + 12 yg	M. Boucher
Snowy Egret				15	Gloucester	40	S. Perkins#
1	Manchester (KI)	150 pr	S. Perkins#	Black Scoter			
17	Salem (Eagle I.)	12 pr	S. Perkins#	26-28	M.V.	25	V. Laux
21	Hull	22	N. Swirka	Surf Scoter			
30	P.I.	50+	C. Cusson#	thr	E. Gloucester	2	J. Soucy
Little Blue Heron				26-28	M.V.	4	V. Laux
1	Manchester (KI)	15 pr	S. Perkins#	White-winged Scoter			
2	P.I.	1	SSBC (W. Petersen)	1	Plymouth	150	BBC (G. d'Entremont)
13	Essex	4	D. Chickering	26-28	M.V.	12	V. Laux
27	Nantucket	2	fide E. Ray	Bufflehead			
28	Plymouth B.	1 ad	A. Hirschkop#	2	Newburyport	1	BBC (F. Bouchard)
28	Scituate	1 ad	D. Clapp	Hooded Merganser			
Tricolored Heron				9	Stoneham	1	D. + I. Jewell
1	Chilmark	1	A. Keith	Red-breasted Merganser			
2	P.I.	1	E. Nielsen	1	Plymouth	3	BBC (G. d'Entremont)
2, 15	P.I. Sound	1 imm	S. Perkins#	9	S. Dartmouth	2	M. Boucher
16	Essex	1	S. Sweet#	Black Vulture			
28	Scituate	1	D. Clapp	17-18	W. Tisbury	1	V. Laux + v.o.
Cattle Egret							

Turkey Vulture				15	Salem	3	I. Lynch
1	Natick	1	E. Taylor	20	P.I.	3	M. Rines#
8	S. Groveland	1	BBS (R. Stymeist)	Sora			
16	Quabbin	1	R. Lockwood	17, 29	P.I.	1, 2	C. Cook, P. + F. Vale
29	Medford	2	M. Rines	Common Moorhen			
Osprey				20-30	P.I.	1 ad	M. Rines + v.o.
thr	Rowley	pr n	J. Berry#	Black-bellied Plover			
2	Falmouth	8	BBC (R. Petersen)	thr	N. Monomoy	150 max	B. Nikula
2	Essex	pr n	SSBC (W. Petersen)	2	P.I. Sound	60	S. Perkins#
7	Nashawena I.	2	A. Jones#	2	Newburyport	150	M. Lynch#
8	S. Groveland	1	BBS (R. Stymeist)	Semipalmated Plover			
20	P.I.	2	M. Rines#	thr	N. Monomoy	12 max	B. Nikula
23	Hull	2	N. Swirka	1	P.I.	6	P. + F. Vale
Bald Eagle				Piping Plover			
2	Essex	1 imm	SSBC (W. Petersen)	1	Plymouth	7	BBC (G. d'Entremont)
13-26	Rockport	1 imm	M. Flor	8	S. Dartmouth	1	H. Wiggins#
26-28	M.V.	1	V. Laux	10	Ipswich (C.B.)	8	BBC (J. Berry)
Northern Harrier				American Oystercatcher			
1	P.I.	1	P. + F. Vale	thr	N. Monomoy	30 max	B. Nikula
7	Nashawena I.	3	A. Jones#	9	S. Dartmouth	1	M. Boucher
9	S. Dartmouth	1	M. Boucher	24	Orleans	6	J. Hoye#
29	S. Monomoy	3	B. Gette	29	S. Monomoy	5	B. Gette
Sharp-shinned Hawk				Greater Yellowlegs			
thr	Holliston	pr n	R. Forster	1	Topsfield	1	P. + F. Vale
Cooper's Hawk				2	P.I. Sound	3	S. Perkins#
27	Norwell	1	R. Forster	Lesser Yellowlegs			
16	Ipswich	1	S. Perkins#	26	N. Monomoy	1	B. Nikula
17	E. Boxford	1	K. Disney	29	S. Monomoy	2	B. Gette
25	N. Dartmouth	1	M. Boucher	Solitary Sandpiper			
28	Lincoln	3	S. Perkins#	1	P.I.	1	P. + F. Vale
Northern Goshawk				Willet			
5	Maynard	1 ad	L. Nachtrab	thr	N. Monomoy	80 max	B. Nikula
Red-shouldered Hawk				2	Mashee	4	BBC (R. Petersen)
thr	E. Boxford	1-2	J. Brown#	2	P.I., 15	12, 30	S. Perkins#
6	Lincoln	1 imm	L. Cocco	9	Rowley	4	J. Berry
28	Lexington	1	M. Rines	Spotted Sandpiper			
Broad-winged Hawk				1	P.I.	3	P. + F. Vale
thr	Marlboro	2	B. Parker	1	Pepperell	4	E. Stromsted#
1	Topsfield	2-3	J. Berry	7	Nashawena I.	4	A. Jones#
8	Concord	1	R. Lockwood	22	GMNWR	2	J. Hoye#
13-30	Lexington	1	M. Rines	Upland Sandpiper			
16	Medford	1	BBC (M. Rines)	thr	Bedford (Hanscom)	10+	R. Lockwood
23	Rutland	2	BBS (M. Lynch)	8	Cumb. Farms	3	B. Zusavich
Red-tailed Hawk				Whimbrel			
thr	Bedford (Hanscom)	4	R. Lockwood	26	WBWS	1	R. Prescott
8	S. Groveland	7	BBS (R. Stymeist)	28	Scituate	1	D. Clapp
American Kestrel				Hudsonian Godwit			
thr	Sherborn	4	E. Taylor	26	N. Monomoy	2	B. Nikula
thr	Bedford	2	R. Lockwood	Ruddy Turnstone			
30	DWWS	pr + 5 yg	D. Clapp	1	Plymouth	36	BBC (G. d'Entremont)
Peregrine Falcon				1	P.I.	30	D. + I. Jewell
thr	Boston	2 pr	T. French	15	Newbury	2	B. Gette
thr	Fall River	pr + 4 yg	T. French	Red Knot			
Ruffed Grouse				6, 21	N. Monomoy	45, 35	B. Nikula
8	Boxford	f + 8 egg	J. Berry	Sanderling			
30	Quabbin (G45)	1	R. Lockwood	1	Plymouth	50	BBC (G. d'Entremont)
Wild Turkey				Semipalmated Sandpiper			
8	Concord	2	R. Lockwood	1	P.I.	120	P. + F. Vale
16	Quabbin	3	R. Lockwood	1	Plymouth	100	BBC (G. d'Entremont)
Northern Bobwhite				6, 26	N. Monomoy	100, 10	B. Nikula
15	MSSF	12	BBC (G. d'Entremont)	Least Sandpiper			
Clapper Rail				26	N. Monomoy	1	B. Nikula
1	P.I.	1	P. + F. Vale	White-Rumped Sandpiper			
23	Nantucket	2	E. Ray	1	P.I.	10	R. Lockwood
King Rail				26	N. Monomoy	8	B. Nikula
thr	W. Harwich	1	B. Nikula#	Pectoral Sandpiper			
Virginia Rail				6	N. Monomoy	1	B. Nikula#
2	Ipswich	8	SSBC (W. Petersen)	Dunlin			
5	Cotuit	pr + 1 yg	S. + E. Miller	2	Newburyport	25	M. Lynch#
9	DWWS	3	SSBC (D. Clapp)	21, 26	N. Monomoy	1	B. Nikula
13	Worcester	4	C. Phillips#				

Curlew Sandpiper	23	N. Monomoy	1	J. Smith	6, 16	Medford	1, 2	M. Rines	
Short-billed Dowitcher	1	Plymouth	16	BBC (G. d'Entremont)	8	S. Groveland	5	BBS (R. Stymeist)	
	2, 15	P.I. Sound	15, 3	S. Perkins#	9	Lynnfield Marsh	9	Alistair Caperton	
	6, 26	N. Monomoy	35, 60	B. Nikula	9	P.I.	2	J. Berry	
	29	Orleans	2	J. Hoye#	15	Worc. (BMB)	9	C. Phillips#	
American Woodcock	15	Pepperell	1	C. Robbins	15	MSSF	5	BBC (G. d'Entremont)	
Wilson's Phalarope	17	P.I.	2	C. Cook	16	Blue Hills	2	SSBC (P. O'Neill)	
Parasitic Jaeger	4	Vineyard Sound	2 ad	A. Jones#	17	Hamilton	2	C. Cusson	
	29	Orleans	1	A. Hirschkop#	23	Rutland	4	BBS (M. Lynch)	
Jaeger species	21	Crane Beach	1	fide C. Ralph	thr	Reports of indiv. from 11 locations			
Laughing Gull	1	Plymouth	25	BBC (G. d'Entremont)	8	S. Groveland	7	BBS (R. Stymeist)	
	2, 17	Lynn	4, 4	J. Quigley	9	Lynnfield Marsh	3	Alistair Caperton	
	2	P.I. Sound	2	S. Perkins#	9	GMNWR	3	M. Rines	
	14	Nant. Sound	7	S. Perkins#	16	Medford	3	BBC (M. Rines)	
Little Gull	2	Newburyport	1	SSBC (W. Petersen)	18	Marshfield	2	D. Furbish	
	12-15	Lynn	2	15	J. Quigley	23	Rutland	2	BBS (M. Lynch)
Bonaparte's Gull	12-15	Lynn	121	J. Quigley	thr	Reports of indiv. from 8 locations			
Lesser Black-backed Gull	8	S. Dartmouth	1 ad	H. Wiggin#	Eastern Screech-Owl				
Royal Tern	15	Edgartown	1	K. Harte	10	Ipswich	2	BBC (J. Berry)	
	22	Orleans	1	M. Lynch#	15	Worc. (BMB)	2	BBS (C. Phillips)	
Roseate Tern	14	Nant. Sound	2	S. Perkins#	Great Horned Owl				
	14	Orleans	8	J. Hoye#	1	Manchester (KI)	1	S. Perkins#	
	26-28	M.V.	60	V. Laux	7	Nashawena I.	1	A. Jones#	
	28	Plymouth B.	12	J. Hoye#	28	MSSF	2	G. d'Entremont#	
Common Tern	1	P.I.	24	P. + F. Vale	28	Plymouth	2	R. Lockwood#	
	14	Nant. Sound	15	S. Perkins#	29	S. Monomoy	1	B. Gette	
	15	Woodbridge I.	100+	S. Perkins#	Common Nighthawk				
	16	Plymouth B.	4127 pr	fide M. Lynch	1	Byfield	1	J. Brown#	
	17	Marblehead	50	S. Perkins#	10	Lynn	2	I. Lynch	
	23	Hull	25	N. Swirka	Chuck-will's-widow				
Arctic Tern	23	N. Monomoy	2	J. Smith	18	Boston (PO Square)	1	N. Smith	
	28	Plymouth B.	8	J. Hoye#	Whip-poor-will				
	29	Orleans	1	J. Hoye#	thr	MSSF	25 max	G. d'Entremont#	
Forster's Tern	2	P.I. Sound	2	S. Perkins#	7	Nashawena I.	2	A. Jones#	
Least Tern	10	Ipswich (C.B.)	100 nests	BBC (J. Berry)	15	Maynard	1	L. Nachtrab	
	15	Quincy	5	E. Taylor	Chimney Swift				
	16	Plymouth	100+	M. Lynch#	1	Stellwagen	1	L. Healey	
	25	S. Dartmouth	16	M. Boucher	8	S. Groveland	8	BBS (R. Stymeist)	
Black Tern	1	M.V. (Norton Pt)	1	A. Keith#	Ruby-throated Hummingbird				
	10	Ipswich (C.B.)	2	BBC (J. Berry)	thr	E. Boxford	3-5	J. Brown#	
	12	GMNWR	1	G. Bertrand	thr	Hamilton	2-4	C. Cusson	
	26-28	M.V.	1	V. Laux	2	P.I.	2	M. Lynch#	
	28	Plymouth B.	1 ad	J. Hoye#	10	Westport	5	M. Boucher	
Black Skimmer	22	Orleans	3	M. Lynch#	22	W. Harwich	2	M. Lynch#	
	23	N. Monomoy	2	J. Smith	Red-headed Woodpecker				
Atlantic Puffin	29	E. of Truro	1	C. Floyd	thr	Sherborn	2 ad	E. Taylor	
Band-tailed Pigeon	22-25	Nantucket	1	F. Pease	Red-bellied Woodpecker				
White-winged Dove	23-30	Provincetown	1 ph	N. Champling	thr	E. Boxford	1 m	J. Brown#	
Black-billed Cuckoo	2	W. Newbury	2	SSBC (W. Petersen)	thr	Medford	pr n	M. Rines	
					2	Ipswich	2	J. Berry	
					8	S. Groveland	3	BBS (R. Stymeist)	
					13	Westwood	2	N. Komar	
					thr	Reports of indiv. from 5 locations			
					Yellow-bellied Sapsucker				
					30	Quabbin (G45)	2	R. Lockwood	
					Hairy Woodpecker				
					thr	E. Boxford	4-5	J. Brown#	
					8	S. Groveland	2	BBS (R. Stymeist)	
					27	Maynard	pr + 2 yg	L. Nachtrab	
					Northern Flicker				
					7	Nashawena I.	15	A. Jones#	
					8	S. Groveland	15	BBS (R. Stymeist)	
					"Red-Shafted" Flicker				
					8	Haverhill	1	R. Stymeist#	
					Pileated Woodpecker				
					6	Concord	1	R. Lockwood	
					8	Boxford	1	J. Berry	
					15	Groton	1	M. Rines#	
					16	Medford	1	BBC (M. Rines)	
					23	Rutland	2	BBS (M. Lynch)	

FLYCATCHERS THROUGH GROSBEAKS

Coordinated breeding bird censuses were conducted at Broad Meadow Brook in Worcester, Rocky Gut in Middleboro, a section of Myles Standish State Forest in Plymouth, the Blue Hills in Milton, Rutland State Park, and under powerlines in Groveland. This type of survey gives a fairly reliable and comparable index to summer bird populations of an area. One surprise of the survey was the discovery of an adult Common Raven with two young found in Rutland State Park.

For a number of years a male **Prothonotary Warbler** has kept a lonely vigil in the Great Meadows in Concord where, once more, it made an appearance with no evidence of having found a mate. A Cerulean Warbler was present in early June in Boxford State Forest in the area of past sightings, but no confirmed report of breeding was established. Other interesting warbler reports included a Hooded Warbler in Westport and Yellow-breasted Chats in Dennis and Lexington, suggesting at least an interest in breeding if not actual success. Mourning Warblers were also noted in good numbers during early June.

Other unusual reports included a Red Crossbill in Provincetown, a Pine Siskin in Watertown, and an Evening Grosbeak in Beverly Farms. Three **Yellow-headed Blackbirds** were noted from three locations on Cape Cod.

R. H. S.

Eastern Wood-Pewee									
6-30	Medford	8 m max	M. Rines						
7	Nashawena I.	6	A. Jones#						
8	S. Groveland	24	BBS (R. Stymeist)						
8	Middleboro	40	SSBC (A. Leggett)						
15	Worc (BMB)	20	BBS (C. Phillips)						
15	MSSF	12	BBC(G. d'Entremont)						
16	Blue Hills	7	SSBC (P.O'Neill)						
23	Rutland	14	BBS (M. Lynch)						
Yellow-bellied Flycatcher									
1	S. Boston	1	R. Donovan						
1	Grafton	1 b	M. Blazis						
2	ONWR	1	B. Parker						
29	N. Dartmouth	1	M. Boucher						
Acadian Flycatcher									
3	N. Brookfield	1	S. Perkins#						
26-28	M.V.	1	V. Laux						
30	Quabbin (G45)	2 ad + 2 yg	R. Lockwood						
Alder Flycatcher									
2	P.I.	1	SSBS (W. Petersen)						
3, 28	Lexington	2, 1	M. Rines						
8	Newton	1	N. Komar						
8	S. Groveland	4	BBS (R. Stymeist)						
10	Bedford (Hanscom)	4	R. Lockwood						
16	ONWR	2	D. Wilkerson						
30	Rutland	6	BBS (M. Lynch)						
Willow Flycatcher									
2	P.I./Newbypt	17	SSBC (W. Petersen)						
8	GMNWR	8	M. Lynch#						
8	Newton	20	N. Komar						
9, 21	DWWS	6	SSBC (D. Clapp)						
9	S. Dartmouth	6	M. Boucher						
9	Lynnfield Marsh	15	Alistair Caperton						
15	Salem	5	I. Lynch						
15	Worc. (BMB)	6	BBS (C. Phillips)						
16	Wakefield	8	P. + F. Vale						
26	M.V.	1	J. Verner#						
Least Flycatcher									
1	ONWR	6	R. Staub#						
8	Boxford	1	J. Berry						
23, 30	Rutland	23, 27	BBS (M. Lynch)						
30	Quabbin (G45)	2	R. Lockwood						
Great Crested Flycatcher									
thr	Mt. A.	2 pr n	R. Stymeist						
thr	Concord	4+	R. Lockwood						
1	Topsfield	8	J. Berry						
8	Middleboro	25	SSBC (A. Leggett)						
8	S. Groveland	16	BBS (R. Stymeist)						
15	GMNWR	2	P. + F. Vale						
15	Worc. (BMB)	8	BBS (C. Phillips)						
16	Medford	2	BBC (M. Rines)						
29	Cohasset	3	N. Swirka						
Eastern Kingbird									
8	S. Groveland	14	BBS (R. Stymeist)						
Horned Lark									
1	Plymouth	2	BBC (G. d'Entremont)						
Purple Martin									
1	Provincetown	2	B. Nikula						
2	P.I.	75+	BBC (F. Bouchard)						
9	DWWS	10	SSBC (D. Clapp)						
26	Rochester	7	M. Boucher						
N. Rough-winged Swallow									
thr	Hudson	6	B. Parker						
Bank Swallow									
2	Bolton Flats	20	B. Parker						
3	Burlington	255	nests M. Rines						
16	Essex (Hog I.)	12	S. Perkins#						
29	P.I.	5	P. + F. Vale						
Cliff Swallow									
30	Lunenburg	pr + 3 fl	R. Lockwood						
Barn Swallow									
30	Lunenburg	20+	R. Lockwood						
Blue Jay									
1	Provincetown	260	migr B. Nikula						
2	P.I.	50	migr SSBC (W. Petersen)						
Fish Crow									
12	Sudbury	pr n	R. Forster						
18	Marshfield	1	D. Furbish						
21	Framingham	pr n	R. Forster						
30	Hanson	3	W. Petersen						
Common Raven									
30	Rutland	1 ad + 2 yg	BBS (M. Lynch)						
Black-capped Chickadee									
8	S. Groveland	43	BBS (R. Stymeist)						
Tufted Titmouse									
8	S. Groveland	24	BBS (R. Stymeist)						
Red-breasted Nuthatch									
9	Marlboro	2	BBC (B. Howell)						
15	MSSF	8	BBC(G. d'Entremont)						
16	Mt. A.	4	R. Stymeist						
24	Brookline	2	H. Wiggin#						
Brown Creeper									
thr	Concord	2	R. Lockwood						
23	Medford	3	M. Rines						
Carolina Wren									
8	S. Groveland	1	BBS (R. Stymeist)						
15	Worc. (BMB)	2	BBS (C. Phillips)						
19	Lincoln	1	S. Perkins#						
29	Northbridge	2	M. Lynch#						
House Wren									
thr	Lincoln	4	R. Lockwood						
1	Middlesex Fells	3	R. Lockwood						

House Wren (continued)									
7	Woburn	5		M. Rines	15	Worc. (BMB)	12		BBS (C. Phillips)
8	S. Groveland	6		BBS (R. Stymeist)	16, 23	Medford		3, 4	M. Rines#
9	Marlboro	3		BBC (B. Howell)	Cedar Waxwing				
15	Worc. (BMB)	9		BBS (C. Phillips)	2	P.I.	60		SSBC (W. Petersen)
15	MSSF	20		BBC (G. d'Entremont)	3	Lincoln		11	R. Lockwood
29	N. Dartmouth	pr + 4 yg		M. Boucher	7	Nashawena I.		15	A. Jones#
Marsh Wren					8	S. Groveland	24		BBS (R. Stymeist)
8	GMNWR	12		M. Lynch#	16	Essex (Hog I.)		10	S. Perkins#
15	Salem	14		I. Lynch	30	Rutland		37	BBS (M. Lynch)
16	Wakefield	15		P. + F. Vale	European Starling				
29	P.I.	8		P. + F. Vale	30	Framingham	3000		E. Taylor
Golden-crowned Kinglet					White-eyed Vireo				
23, 30	Rutland	2, 4		BBS (M. Lynch)	10	S. Dartmouth		1	J. Hoye#
Blue-gray Gnatcatcher					Solitary Vireo				
1	Topsfield	3		J. Berry	2	Melrose		1	P. + F. Vale
1	Brookline	1		J. Young	4	Holliston		1	R. Forster
2	W. Newbury	2		J. Berry	23, 30	Rutland	6, 6		BBS (M. Lynch)
13	Lexington	1		M. Rines	30	Quabbin (G45)		2	R. Lockwood
16	Medford	2		BBC (M. Rines)	Yellow-throated Vireo				
22	Concord	pr n		R. Forster	6	Needham		1	N. Komar
22	Sudbury	pr n		R. Forster	8	Westport		1	H. Wiggin#
22	Wayland	pr		R. Forster	8	S. Dartmouth		1	H. Wiggin#
30	Rutland	2		BBS (M. Lynch)	13	Westwood		1	N. Komar
Eastern Bluebird					15	Newton		1	J. Young
thr	Sherborn	10		E. Taylor	15	ONWR		8	C. Cook
1	Natick	4		E. Taylor	16	Sterling		1	J. Young
6	Lincoln	2		S. Perkins#	23	Rutland	3		BBS (M. Lynch)
8	S. Groveland	2		BBS (R. Stymeist)	30	Quabbin (G45)		1	R. Lockwood
18	Marshfield	2		D. Furbish	Warbling Vireo				
30	Pepperell	3 ad + 5 yg		E. Stromsted	2	Wakefield		3	P. + F. Vale
30	Millis	2		E. Taylor	2	W. Newbury		3	J. Berry
Veery					3	Lexington		3	M. Rines
thr	Natick	4		E. Taylor	7	Woburn		8	M. Rines
1	Topsfield	5		J. Berry	15	Worc. (BMB)		6	BBS (C. Phillips)
8	S. Groveland	3		BBS (R. Stymeist)	16	Medford		3	BBC (M. Rines)
8	Middleboro	38		SSBC (A. Leggett)	16	Wakefield		6	P. + F. Vale
15	Worc. (BMB)	3		BBS (C. Phillips)	30	Hingham		6	N. Swirka
16	Blue Hills	15		SSBC (P. O'Neill)	30	Melrose	3, 1n		P. + F. Vale
30	Quabbin (G45)	10		R. Lockwood	30	Rutland		5	BBS (M. Lynch)
30	Rutland	66		BBS (M. Lynch)	Philadelphia Vireo				
Swainson's Thrush					2	Gay Head		1	A. Keith
1	P.I.	1		R. Lockwood	Red-eyed Vireo				
Hermit Thrush					thr	Medford		10 m max	M. Rines
thr	Sherborn	8		E. Taylor	thr	Sherborn		10	E. Taylor
8	S. Groveland	1		BBS (R. Stymeist)	1	Topsfield		13 m	J. Berry
15	MSSF	16		BBC (G. d'Entremont)	8	S. Groveland	10		BBS (R. Stymeist)
30	Quabbin (G45)	7		R. Lockwood	15	Worc. (BMB)		7	BBS (C. Phillips)
Wood Thrush					16	Blue Hills		14	SSBC (P. O'Neill)
thr	Medford	5 m max		M. Rines	23	Rutland		120	BBS (M. Lynch)
8	Middleboro	10		SSBC (A. Leggett)	Blue-winged Warbler				
8	S. Groveland	13		BBS (R. Stymeist)	thr	Lincoln		6	R. Lockwood
15	Worc. (BMB)	8		BBS (C. Phillips)	2	Medford		3	P. + F. Vale
16	Blue Hills	14		SSBC (P. O'Neill)	3	Lexington		3	M. Rines
23, 30	Rutland	5, 5		BBS (M. Lynch)	8	S. Groveland	27		BBS (R. Stymeist)
30	Quabbin (G45)	6		R. Lockwood	15	Worc. (BMB)	15		BBS (C. Phillips)
Gray Catbird					16	Blue Hills	8		SSBC (P. O'Neill)
8	Middleboro	37		SSBC (A. Leggett)	23	Rutland		5	BBS (M. Lynch)
8	S. Groveland	75		BBS (R. Stymeist)	Golden-winged Warbler				
15	Worc. (BMB)	44		BBS (C. Phillips)	8	S. Groveland	1		BBS (R. Stymeist)
16	Medford	23		BBC (M. Rines)	19-30	Lexington		1 f	M. Rines
16	Mt.A.	26		R. Stymeist	23	S. Natick		1	W. Tordorff
30	Rutland	58		BBS (M. Lynch)	Brewster's Warbler				
Brown Thrasher					8	S. Groveland	1		BBS (R. Stymeist)
1	Woburn	2		M. Hall	Nashville Warbler				
1	P.I.	11		P. + F. Vale	2	W. Newbury		2 m	J. Berry
5	Falmouth	3		S. + E. Miller	8	S. Groveland	4		BBS (R. Stymeist)
7	Nashawena I.	4		A. Jones#	23	Medford		2	M. Rines
8	Lincoln (HF)	2		S. Perkins#	30	Rutland		1	BBS (M. Lynch)
8	S. Groveland	2		BBS (R. Stymeist)	Northern Parula				
15	MSSF	11		BBC (G. d'Entremont)	5	Mashpee		1	S. + E. Miller
					19-30	Boston		1	K. Hudson

Yellow Warbler			
8	S. Groveland	49	BBS (R. Stymeist)
15	Worc. (BMB)	20	C. Phillips#
16	Blue Hills	20	SSBC (P. O'Neill)
16	Wakefield	11	P. + F. Vale
23, 30	Rutland	23, 34	BBS (M. Lynch)
Chestnut-sided Warbler			
8	S. Groveland	25	BBS (R. Stymeist)
15	Worc. (BMB)	4	BBS (C. Phillips)
16	Quabbin	9	R. Lockwood
23, 30	Rutland	23, 26	BBS (M. Lynch)
30	Quabbin (G45)	12	R. Lockwood
Magnolia Warbler			
1	P.I.	1	R. Lockwood
1	M.V. (Cape Pogue)	2	A. Keith#
23, 30	Rutland	5, 8	BBS (M. Lynch)
Black-throated Blue Warbler			
1	P.I.	1	R. Lockwood
8	Concord	1	R. Lockwood
16	Quabbin	4	R. Lockwood
30	Rutland	1	BBS (M. Lynch)
Yellow-rumped Warbler			
23, 30	Rutland	20, 29	BBS (M. Lynch)
30	Quabbin (G45)	1	R. Lockwood
Black-throated Green Warbler			
thr	Holliston	2 pr	R. Forster
1	Topsfield	7	J. Berry
15	GMNWR	1	P. + F. Vale
23, 30	Rutland	27, 39	BBS (M. Lynch)
30	Quabbin (G45)	7	R. Lockwood
Blackburnian Warbler			
1	Middlesex Fells	1	R. Lockwood
13	P.I.	1 f	P. Hunt
23, 30	Rutland	12, 17	BBS (M. Lynch)
30	Quabbin (G45)	10	R. Lockwood
Pine Warbler			
1	Topsfield	8 m	J. Berry
15	MSSF	64BBS(G. d'Entremont)	
23, 30	Rutland	23, 28	BBS (M. Lynch)
Prairie Warbler			
2	Falmouth	7	BBC (R. Petersen)
7	Woburn	2	M. Rines
7	Nashawena I.	4	A. Jones#
8	S. Groveland	32	BBS (R. Stymeist)
15	Worc. (BMB)	9	BBS (C. Phillips)
15	MSSF	65BBS(G. d'Entremont)	
16	Blue Hills	12	SSBC (P. O'Neill)
16	Quabbin	4	R. Lockwood
Blackpoll Warbler			
1	P.I.	6	P. + F. Vale
1	M.V. (Cape Pogue)	12	A. Keith#
1	Middlesex Fells	15	R. Lockwood
16	Mt. A.	1	R. Stymeist
25	Cummaquid	1	S. + E. Miller
Cerulean Warbler			
8	Boxford	1 m	J. Brown#
14	Brimfield	1 m	B. Windmiller
16	Quabbin	2	R. Lockwood
Black-and-white Warbler			
1	Topsfield	4 m	J. Berry
2	P.I.	1	SSBC (W. Petersen)
8	S. Groveland	5	BBS (R. Stymeist)
8	Middleboro	36	SSBC (A. Leggett)
16	Blue Hills	3	SSBC (P. O'Neill)
23, 30	Rutland	15, 6	BBS (M. Lynch)
30	Quabbin (G45)	2	R. Lockwood
American Redstart			
thr	Lincoln	6	R. Lockwood
thr	Concord	4	R. Lockwood
1	P.I.	15	R. Lockwood
14	E. Sandwich	1	S. + E. Miller
23, 30	Rutland	25, 18	BBS (M. Lynch)
30	Quabbin (G45)	15+	R. Lockwood
Prothonotary Warbler			
8-15	GMNWR	1	v.o.
Ovenbird			
thr	Sherborn	6	E. Taylor
1	Topsfield	19	J. Berry
1	Middlesex Fells	10	R. Lockwood
8	S. Groveland	8	BBS (R. Stymeist)
8	Middleboro	149	SSBC (A. Leggett)
15	MSSF	15BBS(G. d'Entremont)	
16	Blue Hills	19	SSBC (P. O'Neill)
23, 30	Rutland	89, 102	BBS (M. Lynch)
29	Cohasset	4	N. Swirka
Northern Waterthrush			
thr	Holliston	4 pr	R. Forster
thr	Concord	4	R. Lockwood
22	GMNWR	1	J. Hoye#
Louisiana Waterthrush			
1	Concord	1 m	K. Harte
13	Westwood	1	N. Komar
30	Rutland	1 ad + 2 yg	BBS (M. Lynch)
Mourning Warbler			
1	S. Boston	1	R. Donovan
1	P.I.	1	D. + I. Jewell
6	Needham	1	N. Komar
9	Wayland	1	A. Hirschkopf
14	P.I.	1	P. Hunt#
Common Yellowthroat			
7	Nashawena I.	25 pr	A. Jones#
8	S. Groveland	57	BBS (R. Stymeist)
8	Middleboro	33	SSBC (A. Leggett)
15	MSSF	35BBS(G. d'Entremont)	
15	Worc. (BMB)	36	BBS (C. Phillips)
16	Blue Hills	63	SSBC (P. O'Neill)
23, 30	Rutland	98, 121	BBS (M. Lynch)
Hooded Warbler			
1	M.V. (Cape Pogue)	1 f	A. Keith
8	Westport	1	H. Wiggin#
Wilson's Warbler			
1	Yarmouthport	1	S. + E. Miller
Canada Warbler			
6	Medford	1	M. Rines
23, 30	Rutland	5, 6	BBS (M. Lynch)
Yellow-breasted Chat			
12	Dennis	1	S. + E. Miller
13	Lexington	1	M. Rines
Scarlet Tanager			
thr	Medford	3 m max	M. Rines
8	Middleboro	17	SSBC (A. Leggett)
8	S. Groveland	14	BBS (R. Stymeist)
15	Worc. (BMB)	10	BBS (C. Phillips)
16	Blue Hills	14	SSBC (P. O'Neill)
23, 30	Rutland	26, 23	BBS (M. Lynch)
29	Cohasset	3	N. Swirka
Rose-breasted Grosbeak			
8	S. Groveland	20	BBS (R. Stymeist)
15	Worc. (BMB)	9	BBS (C. Phillips)
23, 30	Rutland	11, 11	BBS (M. Lynch)
30	Quabbin (G45)	3	R. Lockwood
Indigo Bunting			
2	Medford	2	P. + F. Vale
6	Lincoln	3	S. Perkins#
7	Woburn	4	M. Rines
8	S. Groveland	8	BBS (R. Stymeist)
16	Quabbin	4	R. Lockwood
21	W. Tisbury	1	fide A. Keith
23	Concord	2	R. Lockwood
Eastern Towhee			
7	Nashawena I.	25 pr	A. Jones#
8	S. Groveland	66	BBS (R. Stymeist)

Eastern Towhee (continued)											
15	Worc. (BMB)	43	BBS (C. Phillips)								
15	MSSF	110	BBC (G. d'Entremont)								
23, 30	Rutland	15, 22	BBS (M. Lynch)								
23	Medford	17	M. Rines								
Chipping Sparrow											
15	MSSF	71	BBC (G. d'Entremont)								
23, 30	Rutland	23, 45	BBS (M. Lynch)								
Field Sparrow											
7	Woburn	6	M. Rines								
8	S. Groveland	38	BBS (R. Stymeist)								
15	Worc. (BMB)	14	C. Phillips#								
Vesper Sparrow											
1	Plymouth	1	BBC (G. d'Entremont)								
15	Welfleet	1	B. Parker								
Savannah Sparrow											
3	N. Brookfield	2	A. Jones#								
7	Nashawena I.	25 m	A. Jones#								
13	Worcester	20	C. Phillips#								
17	Bedford (Hanscom)	20+	A. Jones#								
Grasshopper Sparrow											
thr	Bedford (Hanscom)	18	R. Lockwood								
2	Falmouth	1	BBC (R. Petersen)								
7	Nashawena I.	115 m	A. Jones#								
13	Worcester	15	C. Phillips#								
16	W. Boylston	1	J. Young								
30	Pepperell	1	E. Stromsted								
Saltmarsh Sharp-tailed Sparrow											
15	Newbury	30	S. Perkins#								
29	Newbypt	2	R. Lockwood								
"Sharp-tailed" Sparrow											
2	P.I.	25+	M. Lynch#								
10	S. Dart. (A. Pd)	30	J. Hoye#								
5	Dorchester	3	J. Young								
Seaside Sparrow											
2	P.I.	1	SSBC (W. Petersen)								
Swamp Sparrow											
23, 30	Rutland	11, 18	BBS (M. Lynch)								
White-throated Sparrow											
23, 30	Rutland	10, 18	BBS (M. Lynch)								
Bobolink											
1	P.I.	15	D. Chickering								
6	Lincoln	8	S. Perkins#								
8, 30	Pepperell	120, 180	E. Stromsted								
9	Rowley	25	J. Berry								
15	Newbury	20+	S. Perkins#								
16	Essex (Hog I.)	12	S. Perkins#								
29	Newbypt	10+	R. Lockwood								
Eastern Meadowlark											
13	Worcester	4	C. Phillips#								
17	Bedford (Hanscom)	8	S. Perkins#								
Yellow-headed Blackbird											
16	P'town (Airport)	1 m	J. Alciadi								
19	Chatham	1	E. Gelsey								
20	Otis A.F.B.	1 m	A. McCloud								
Common Grackle											
1	Manchester (KI)	6 nests	S. Perkins#								
8	S. Groveland	26	BBS (R. Stymeist)								
30	Frammingham	800	E. Taylor								
Brown-headed Cowbird											
8	Middleboro	37	SSBC (A. Leggett)								
8	S. Groveland	47	BBS (R. Stymeist)								
15	Worc. (BMB)	31	BBS (C. Phillips)								
Orchard Oriole											
thr	Wellesley	4 pr n	R. Forster								
1	Woburn	1	M. Hall								
1	Newton	1	J. Young								
2	Ipswich	1	J. Berry								
7	Waltham	7	C. Ralph								
8	Lexington	1	A. Caperton								
9	S. Dartmouth	4	M. Boucher								
13	Groveland	1	D. Chickering								
13	Westwood	1	N. Komar								
17	GMNWR	1	C. Floyd								
28	Hingham	3	N. Swirka								
29	Natick	1	E. Taylor								
30	Melrose	1 ad + 1 yg	D. + I. Jewell								
Baltimore Oriole											
8	S. Groveland	56	BBS (R. Stymeist)								
Purple Finch											
thr	E. Boxford	5	J. Brown#								
2	W. Barnstable	1	S. + E. Miller								
2	P.I.	4	SSBC (W. Petersen)								
6	MSSF	1	G. d'Entremont#								
9	S. Dartmouth	4	M. Boucher								
16	Essex (Hog I.)	1 m	S. Perkins#								
20	P.I.	4	M. Rines								
30	Rutland	9	BBS (M. Lynch)								
Red Crossbill											
1	Provincetown	1	B. Nikula								
Pine Siskin											
24	Watertown	1 ph	R. Stymeist#								
Evening Grosbeak											
14	Beverly Farms	1 m ph	P. Manning								

HOW TO CONTRIBUTE BIRD SIGHTINGS TO BIRD OBSERVER

This publication prints monthly compilations of reports of birds seen in the ten counties of eastern Massachusetts (Worcester County and east) and offshore waters. Space does not permit the inclusion of all material submitted. However, bird sightings sent to *Bird Observer* are archived at the Massachusetts Audubon Society. Our compilers select and summarize for publication sightings that provide a snapshot of birdlife during the reporting period. These sightings include early and late dates for migratory species, maximum counts of migrants and some common birds, and species found beyond their normal ranges.

Sightings for any given month must be reported in writing by the eighth of the following month. Send to Bird Sightings, Robert H. Stymeist, 94 Grove Street, Watertown, MA 02172. Please organize reports by month and by species in current A.O.U. checklist order. Include name and phone number of observer, common name of species, date of sighting, location, number of birds, number of observers, and information relevant to age, sex, morph, etc.

Reports of difficult identifications, vagrants, rarities, or species unusual as to place, time, or prior nesting activity in Massachusetts also should be reported promptly to the Massachusetts Avian Records Committee, c/o Wayne Petersen, Massachusetts Audubon Society, South Great Road, Lincoln, MA 01773.

LIST OF ABBREVIATIONS

ad	adult	H.	Harbor
alt	alternate	I.	Island
b	banded	L.	Ledge
br	breeding	M.V.	Martha's Vineyard
dk	dark (phase)	Mt.A.	Mount Auburn Cemetery, Cambridge
f	female	Nant.	Nantucket
fl	fledged	Newbypt	Newburyport
imm	immature	P.I.	Plum Island
ind	individuals	Pd	Pond
juv	juvenile	P'town	Provincetown
loc	location	Quab.	Quabbin
lt	light (phase)	Res.	Reservoir
m	male	R.P.	Race Point, Provincetown
max	maximum	S.B.	South Beach, Chatham
mi	mile	S. Dart.	South Dartmouth
migr	migrating	S.F.	State Forest
n	nesting	S.N.	Sandy Neck, Barnstable
ph	photographed	S.P.	State Park
pl	plumage	Stellw.	Stellwagen Bank
pr	pair	Worc.	Worcester
S	summer (1S = first summer)	BBC	Brookline Bird Club
thr	throughout	BBS	Breeding Bird Survey
v.o.	various observers	BMB	Broad Meadow Brook, Worcester
W	winter (2W = second winter)	CBC	Christmas Bird Count
w/	with	CCBC	Cape Cod Bird Club
yg	young	DFWS	Drumlin Farm Wildlife Sanctuary
#	additional observers	DWWS	Daniel Webster Wildlife Sanctuary
A.A.	Arnold Arboretum	EMHW	Eastern Massachusetts Hawk Watch
A.P.	Andrews Point, Rockport	GMNWR	Great Meadows National Wildlife Refuge
A.Pd	Allens Pond, S. Dartmouth	HRWMA	High Ridge Wildlife Management Area, Gardner-Westminster
Arl.	Arlington	IRWS	Ipswich River Wildlife Sanctuary
B.	Beach	LCES	Lloyd Center for Environmental Studies
B.I.	Belle Isle, E. Boston	MARC	Massachusetts Avian Records Committee
B.R.	Bass Rocks, Gloucester	MAS	Massachusetts Audubon Society
Buzz.	Buzzards Bay	MBO	Manomet Observatory
Cambr.	Cambridge	MBWMA	Martin Burns Wildlife Management Area, Newbury
C.B.	Crane Beach, Ipswich	MDFW	MA Division of Fisheries and Wildlife
Corp. B.	Corporation Beach, Dennis	MNWS	Marblehead Neck Wildlife Sanctuary
C.P.	Crooked Pond, Boxford	MSSF	Myles Standish State Forest
Cumb. Farms	Cumberland Farms, Middleboro-Halifax	NAC	Nine Acre Corner, Concord
E.P.	Eastern Point, Gloucester	NBC	Needham Bird Club
F.E.	First Encounter Beach, Eastham	NEHW	New England Hawk Watch
F.H.	Fort Hill, Eastham	ONWR	Oxbow National Wildlife Refuge
F.M.	Fowl Meadow	SRV	Sudbury River Valley
F.P.	Fresh Pond, Cambridge	SSBC	South Shore Bird Club
F.Pk	Franklin Park, Boston	TASL	Take A Second Look Harbor Census
G40	Gate 40, Quabbin	USFWS	US Fish and Wildlife Service
G45	Gate 45, Quabbin	WBWS	Wellfleet Bay Wildlife Sanctuary
		WMWS	Wachusett Meadow Wildlife Sanctuary

ABOUT THE COVER: WHITE-WINGED CROSSBILL

The White-winged Crossbill (*Loxia leucoptera*) is a tame, enigmatic, and poorly known species because of its nomadic nature and home in remote boreal forests. Males are unmistakable: pinkish red, with contrasting black wings and bold white wingbars. In females the red is replaced by yellowish olive, and immature males are similar in plumage to females but have patches of pink. Juvenile birds are heavily streaked brown. White-winged Crossbills are much smaller than Pine Grosbeaks, which in color pattern they may superficially resemble. Three subspecies are recognized in this circumpolar species, one restricted in distribution to Hispaniola, one in Eurasia, and one in North America. Our North American subspecies, *L.l. leucoptera*, has a substantially smaller and more narrow beak than the other subspecies, and some authorities think that it is sufficiently different to merit full species status.

The breeding range of White-winged Crossbills stretches from Alaska to Newfoundland, and in the United States to the Rocky Mountains and eastern New York through northern New England. They are nomadic and irruptive, spreading south in winter as far as the Carolinas when coniferous cone crops fail in the boreal forest. They often join other irruptive species including Red Crossbills, siskins, redpolls, grosbeaks, and waxwings in areas of concentrated winter food. They arrived in Massachusetts in large flights in the winter of 1933-1934 and in February 1953. More recent, smaller flights occurred in the 1970s and early 1980s. Occasional summer records exist, but no confirmed breeding records exist for Massachusetts.

The breeding biology of White-winged Crossbills is poorly known. They are opportunistic breeders, settling down to nest whenever they locate a major cone crop. They breed throughout the year, and females may leave the fledged young with the male and re-nest. This suggests that the mating system may include serial polyandry, with females mating with different males for the second and later broods (up to four broods a year).

White-winged Crossbills have a variety of calls and displays. Threat displays include tail and wing flicking while crouching toward the competitor. Males courtship feed females and may circle females with slowly beating wings and continuous flight song. Their song has been described as canary-like, *sweet, sweet, sweet* or *trr-tweet-tweet-tweet*. Flight calls consist of a series of harsh *chet* notes, or assorted rattles and chatter.

The nest is usually concealed in dense foliage on a horizontal spruce branch. The female builds the nest, and the male sometimes helps by bringing her nesting material. Nests may be clustered in particularly favorable habitat. The clutch is 2-4 pale bluish to greenish-white eggs, spotted or blotched with brown or lavender. The incubation period is unknown but is probably about two weeks. Females have brood patches and do all the incubating, but are fed by

males during this period. The young are fed seed-pulp boluses by regurgitation. The fledging period is also unknown.

White-winged Crossbills have an esophageal diverticulum, a pouch where seeds may be temporarily stored, thereby serving a function similar to the crop of gallinaeous birds. They can feed from their storage pouch, an adaptation in all probability to harsh northern winters, in sheltered places during long winter nights or during storms. Spruce and tamarack seeds are their favored food. They grasp a cone with one foot and pry it open with their crossed mandibles, removing the seed coat before swallowing the seed. They often feed on cones scattered on the ground, and may eat as many as 3000 seeds in a single day! In addition to coniferous seeds, they eat grass and deciduous tree seeds, buds, berries, and insects, including the larvae of spruce budworms.

White-winged Crossbills have developed the habit of feeding on road salt during the winter, and many have been killed by vehicular traffic. Although they are preyed upon by Sharp-shinned Hawks, predation by other raptors and shrikes is considered a minor mortality factor compared to the periodic failure of coniferous cone crops. The increasing rate of logging in boreal forests and shorter logging rotation periods may pose threats to White-winged Crossbill populations in the future, but at the present time the major factors affecting population levels are natural rather than anthropocentric.

W. E. Davis, Jr.

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ABOUT THE COVER ARTIST

Julie Zickefoose is an artist, writer, and naturalist who is devoted to the study, conservation, and appreciation of nature. Educated at Harvard University in biology and art, Julie worked six years as a field biologist for The Nature Conservancy before turning to full-time freelance art. She contributes regularly to magazines from *Ladybug* to *Bird Watcher's Digest*, for which she is a contributing editor. Book illustration credits include the Academy of Natural Sciences, for which she is contributing illustrations to the multi-volume work *The Birds of North America*.

Julie has shown her work at Harvard University, the National Zoo, the Leigh Yawkey Woodson Art Museum, and the XIX International Ornithological Congress. She also sings and plays in a band, The Swinging Orangutans, whose members include her husband, Bill Thompson III, editor of *Bird Watcher's Digest*. Julie can be reached at Indigo Hill Arts, Route 1, Box 270, Whipple, Ohio 45788.

M. Steele

AT A GLANCE *August 1996* _____ *Wayne R. Petersen*

The most outstanding feature of the mystery bird on the nest is its large, conical bill, which indicates that the bird might be a finch, bunting, or sparrow of some kind. If so, the size of the bill suggests that the bird would have to be a fairly large representative of this group. Additionally, because the bird appears to be incubating, it is probably a female.

If all of the above is true, Blue Grosbeak emerges as a candidate. However, female Blue Grosbeaks have prominent buffy wing bars. The pictured bird clearly lacks wing bars. Furthermore, this species would likely have a more abrupt forehead, not the flat-headed appearance of the bird in the photo. A female Indigo Bunting, a somewhat miniaturized version of the Blue Grosbeak, would have a proportionately smaller and slightly more rounded bill and would likely display indistinct buffy wing bars. Again, not a good match.

A close examination of the bird on the nest reveals a peculiar scaled appearance to the nape and crown, as well as a decidedly flat-headed aspect to the head and bill. These features, along with the virtual absence of any other conspicuous field marks, leave few other possibilities.

At this point, the nest itself might provide a final clue. For those readers who have taken an interest in birds' nests through the years, or who have started to use the past couple of At A Glance photographs to begin thinking about nests, the tidy bark and lichen-decorated, semipendant cup in the photograph quite probably belongs to a vireo of some sort. However, the bird on the nest is clearly not a vireo! So, we have established that although the bird looks like a grosbeak or bunting, it is not, and while the nest resembles that of a vireo, the bird sitting on the nest is not a vireo. Where does this leave the mystery bird?

There is really only one large-billed, nondescript, and slightly scaly backed bird that matches the bird in the photograph: a female Brown-headed Cowbird (*Molothrus ater*). The bill shape and flat-headed profile are the best clues in the picture, along with the fact that the bird looks awfully large for the nest it is sitting on. Brown-headed Cowbirds are brood parasites that lay their eggs in the nests of other smaller songbirds. They do not build a nest of their own. Cowbird young are then raised by foster parents, often at the expense of the parent bird's own young. This reproductive strategy has been so successful that some ornithologists are getting concerned about the effect of burgeoning cowbird numbers in some regions of the country. In Massachusetts Brown-headed Cowbirds are common during migration and in summer and are uncommon in winter.



Photo by Hal H. Harrison

Courtesy of MAS

AT A GLANCE

Photo by M. Rines



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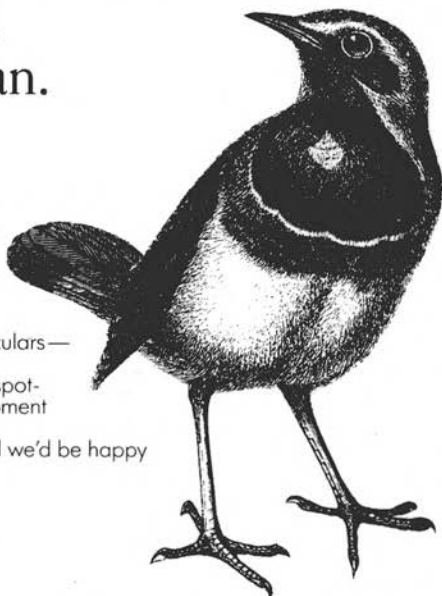
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