Bird Observer

VOLUME 42, NUMBER 1

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HOT BIRDS



Ryan Schain, Matt Garvey, Naeem Yuseff, and Tim Factor were pleased to observe a **White-winged Dove** on the Boston Christmas Bird Count on December 21, hanging out in front of the JFK Library. Jeff Offermann was nearby and photographed it.

On Christmas Day Phil Brown celebrated by discovering a **Ross's Goose** in Ipswich.





On December 29, Mark Faherty discovered a **MacGillivray's Warbler** in Lakeville on the Taunton-Middleboro Christmas Bird Count. Lest the compiler disbelieve him, he took photos!

On December 30, Patrick Dugan and Frank Gallo discovered a **Mew Gull** at Codfish Park on Nantucket. Vern Laux reports that it is likely to be the NE Russia race that some consider a separate species, the "Kamchatka" Gull. On New Year's Day Vern Laux relocated this gull between Codfish Park and Low Beach and photographed it.



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Editorial Changes at Bird Observer

Marsha C. Salett, editor

As of January 2014, Paul Fitzgerald has retired as editor of *Bird Observer* after seven years at the helm of the magazine; he will remain on the editorial staff as feature editor. An associate editor for the past three years, I am looking forward to my new position as editor.

Peter W. Oehlkers took over from David M. Larson as production editor in a seamless transition last fall. David, who was production editor for 15 years, remains onboard as an associate editor and his new column, *Gleanings*, debuts with this issue.

Bird Observer editorial staff, corporate officers, and board of directors thank David and Paul for their professionalism, dedication, and the enormous amount of work they have contributed to *Bird Observer* and the birding community. The editorial staff is pleased that David and Paul have decided to stay actively involved with *Bird Observer*, and I am particularly delighted to continue to work with them.

The other major change at *Bird Observer* is that we are now available online as well as in print to our subscribers. All six of the 2013 issues are online, as is the current February 2014 issue. Future issues will be posted regularly and older issues will eventually be added.



Bird Observer

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Birding the Taunton River and Environs of Bristol County, Massachusetts

Jim Sweeney

Located in the eastern portion of Bristol County, the Taunton River drains more than 300 square miles of southeastern Massachusetts. The watershed extends from the city of Attleboro in the west to the towns of Plymouth and Carver in the east. The southern boundary

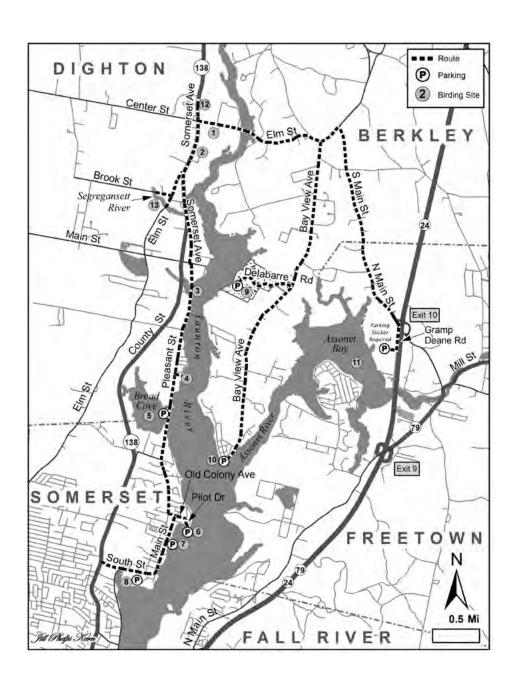


of the watershed is the city of Fall River where the estuary joins Mount Hope Bay, an easterly extension of Narragansett Bay, Rhode Island. The northern border lies in the communities of Stoughton and Avon. In this region, a complex of hills and ridges—some reaching an elevation of 200 feet—separates the Taunton River drainage from the watersheds of the Neponset and North rivers. The southeastern portion of the watershed includes the Lakeville ponds in western Plymouth County. Within this complex of ponds lies Assawompset Pond, the largest natural freshwater pond in the commonwealth (Johnson and Raup 1947).

The Taunton River, whose headwaters are located at the confluence of the Town and Matfield rivers in Bridgewater, flows south for approximately forty miles. The lower portions of the river are tidal and the head of the tide is in the vicinity of Taunton, about fifteen miles north of the mouth of the estuary in Fall River. This low-gradient river continues south of Fall River into Mount Hope Bay and eventually empties into Narragansett Bay. The waters of Mount Hope Bay flow into the ocean via the Sakonnet River, a saltwater sound between Aquidneck Island and the towns of Tiverton and Little Compton in Rhode Island. Typical habitats found in the areas discussed in this article include pine/oak forest, red maple and Atlantic white cedar swamps, agricultural fields, riverine cattail marshes, and spring-fed brooks.

Early colonial accounts sometimes referred to the Taunton River as the Great or Titicut River. The river and its tributaries (Segregansett, Three Mile, and Assonet rivers) saw heavy use by Native Americans in prehistoric times. There are many archaeological sites in this region, two of which warrant specific mention. The Grassy Island site, northwest of Dighton Rock State Park in Berkley, has been studied extensively. Dr. Edmund Burke Delabarre initially excavated the site in 1925. In the 1940s, Frederick Johnson and Hugh Raup re-excavated the site and conducted a botanical study of the island.

Dr. Delabarre produced many articles on the topic of Dighton Rock, a large rock formerly located close to the eastern shore of the river in Berkley. Dighton Rock, which is now housed in a museum close to its original location, has been the subject of much speculation, as it contains a number of mysterious inscriptions that have puzzled observers since it was first described by Reverend John Danforth in 1680.



Several theories have been advanced regarding the origin of the inscriptions, but most contemporary accounts have given credence to a Native American provenance. Another Native American site known as Sweet's Knoll is located on the west side of the river in Dighton. The site was excavated in the 1950s, and the Massachusetts Archaeological Society published a detailed report of the artifacts that were found.

Fifteen miles upstream, the city of Taunton—the river's namesake—was an important industrial center from the mid-18th to the early 20th century. The city and the smaller communities downriver relied on the river as a significant means of transportation. According to William Hanna's *A History of Taunton, Massachusetts*, Ebenezer Stetson owned a yard in Dighton that produced ships for commerce with the West Indies, and John Reed built ships at Muddy Cove, a section of Dighton, as early as the 1750s.

By 1820, there were twenty sloops (single-masted vessels under forty tons) docked at the Weir section of Taunton. Between 1870 and 1910, there were more than one hundred vessels in Taunton. However, only about a dozen of these vessels could navigate the river as far north as the area Tauntonians still call "the Weir." The larger ships had to unload in the towns of Somerset and Dighton and cargoes such as coal and grain were transported upstream on barges or small ships called lighters.

In April 2009, the river received a federal designation as a Wild and Scenic River through the efforts of the Taunton River Watershed Alliance. Though the river has ceased to be an important contributor to the area's remaining industry, it is still a popular recreational site for fishing, boating, kayaking, and canoe club trips.

This article is an all-season guide to birding sites on the Taunton River and environs. Its main focus is on fall and winter, since these tend to be the most productive times for birding. The article concentrates on sites on the west side of the river because the west side has easier access and superior views of the water. However, several sites on the east side are included because they offer views of the river that are not accessible from the west, or they consistently produce bird sightings of interest.

1. Bristol County Agricultural High School Fields

To access the agricultural school fields from Route 138 (Somerset Avenue) in Dighton, travel east on Center Street for 0.2 mile to the Bristol County Agricultural High School. These fields usually contain large numbers of Canada Geese and Ringbilled Gulls throughout the fall, winter, and early spring. Snow Geese have been observed here occasionally and in November 2012 three Cackling Geese were present among the Canada Geese. Be sure to scope the small pond in the eastern third of the field for Hooded Mergansers during fall migration. Scoping from the road may also yield sightings of Horned Larks, Snow Buntings, and, during milder winters, lingering American Pipits. Bald Eagles and Peregrine Falcons have been observed during the Taunton/Middleboro CBC. A careful check of the weedy mounds near the road may reveal American Tree and Savannah sparrows. The extensive narrow-leaved cattail marsh at the edge of the Taunton River is home to several pairs of breeding Marsh Wrens. Sometimes these birds are found there in early winter along with a few Swamp



Taunton River from Sweet's Knoll State Park. (All photographs by Jim Sweeney).

Sparrows. In the summer, look for breeding Ospreys on the conspicuous nesting platforms at the edges of the fields. Listen for Green Herons as they fly along the river emitting their hoarse calls.

The high school campus is home to the Bristol County Natural History Center. This museum contains an impressive exhibit of bird skins and other artifacts that belonged to renowned ornithologist Arthur Cleveland Bent of Taunton. For information about hours of operation or to schedule an appointment to visit the museum, use the following link: http://www.tauntonriver.org/museums.htm.

2. Sweet's Knoll

From the Bristol County Agricultural High School fields, return west on Center Street to Route 138. Take a left on Route 138, continue for 0.3 mile, and look for the sign for Sweet's Knoll State Park on the left (the address is 1387 Somerset Avenue). This 56-acre property in Dighton was formerly a private residence and subsequently donated to the Commonwealth of Massachusetts. Pull into the driveway of the former residence, look for the trail in the field that lies directly ahead, and follow it through the field to the edge of the Taunton River. Sweet's Knoll is on the northeast side of the property and close to the river. As previously noted, Sweet's Knoll is a Native American site that was excavated in the 1950s. At the southeast corner of the knoll you will find a trail that leads to the top. The brief hike affords a nice view of the river below. The pine/oak forest on the knoll is a good place to look for Brown Creepers and

Golden-crowned Kinglets in fall and winter. The thickets at the edges of the fields often hold semi-hardy lingering species such as Ruby-crowned Kinglets, Hermit Thrushes, Gray Catbirds, and Eastern Towhees in winter. Birding here may also reveal Eastern Bluebirds, American Tree and Fox sparrows, and flocks of Dark-eyed Juncos. Check the river for Buffleheads, Common Goldeneyes, and Belted Kingfishers throughout the fall and winter months. Cooper's and Red-shouldered hawks are also regularly observed in this area.

3. Muddy Cove

After visiting Sweet's Knoll, return to Route 138 and travel south for 0.7 mile to a fork in the road. Take the left fork to stay on Somerset Avenue—and away from Route 138, which becomes County Street at this point. Continue 0.4 mile through the junction with Main Street and take a slight left to get onto Pleasant Street. Drive 0.3 mile south on Pleasant Street, then take a left onto Water Street and look for Tricentennial Park immediately on the right and close to the river. Park in the small lot and scan the river. This section has been reliable for Barrow's Goldeneyes over the past decade or so. In addition, look for Buffleheads, Common Goldeneyes, and both Red-breasted and Hooded mergansers in fall and winter. Occasional Canvasbacks are observed from this point, especially in mid-March. In the past this section of the river—and points up to several miles south—served as a major wintering area for Canvasbacks and Greater Scaup. High counts of several thousand birds were recorded for both species during the period 1975–1981 (Veit and Petersen 1993).

Greater Scaup can still be observed farther downriver today, but high counts of several hundred birds are more typical now. Be sure to check groups of American Black Ducks that are often tucked up against the shore on the opposite side of the river, since Gadwalls and American Wigeon have sometimes been found associating with this species, especially after a cold snap has pushed ducks off the frozen interior ponds nearby.

Another productive area to check from this vantage is Grassy Island, northeast of Muddy Cove and closer to the opposite side of the river in Berkley. This small island is exposed during low tide and is occupied by large numbers of gulls late in the afternoon prior to their return to unknown roosting sites. Although most of the gulls that congregate here are Herring and Ring-billed, in the past few years the island has hosted multiple Iceland Gulls. Bald Eagles have also been spotted here in winter, so carefully scan the trees on the opposite shore.

4. Dighton Boat Launch Area

Return to Pleasant Street, continue south for 0.9 mile, and look for the aptly named Boat Launch Road on the left. Take a left and drive a short distance to the boat launching area. In the spring, the flooded sections surrounding the base of the Osprey nesting platform sometimes have American Wigeon dabbling among the more numerous American Black Ducks and Mallards. The river may also host large numbers of Greater Scaup with a few Lesser Scaup mixed in. Other species to look for

are Common and Red-throated loons. The latter is rare this far upriver, but has been observed on the CBC a few times over the past decade.

Northeast of the boat ramp, a large rock protrudes from the surface of the river that is frequently used by resting gulls in fall and winter. Check for Lesser Black-backed and Iceland gulls on or around the rock since both of these species have been observed here in the past. Buffleheads and Red-breasted Mergansers are also regular in the same seasons.

5. Broad Cove

Located on the Dighton–Somerset border, Broad Cove is one of the most productive birding areas on the Taunton River. To reach Broad Cove, continue south on Pleasant Street for 0.5 mile. Look for a small dirt parking area on the right. At the north end of the parking area, a path leads through a small wooded area with thickets extending out to Broad Cove. Check these thickets for White-throated Sparrows and Gray Catbirds in the winter. Yellow-rumped Warblers are often abundant in fall and winter. After checking the thickets, continue along the path to the edge of the cove. The weedy areas near the shore may hold a variety of sparrows during fall migration. Buffleheads and Common Goldeneyes may be the most common species here in fall and winter, but look for Barrow's Goldeneyes and Common and Hooded mergansers. This spot is also a good place to look for lingering Ruddy Ducks and Pied-billed Grebes in early winter. In early spring, kettles of Turkey Vultures regularly teeter overhead. Red-tailed Hawks are common around the perimeter of Broad Cove; Merlins and Peregrine Falcons sometimes appear closer to the river.

Before leaving, look at the river from the parking area. Concentrations of several hundred Greater Scaup are routinely observed here in the winter. Sometimes American Wigeon are pressed up against the rocks along shore just south of the parking area. Interestingly, about one mile south of Broad Cove in the vicinity of the junction of Pleasant Street and Fisher Way, a small colony of Monk Parakeets nested until about ten years ago.

6. Mallard Point

From Broad Cove, continue south on Pleasant Street for 1.3 miles and take a left onto Old Colony Avenue. Continue for 0.1 mile and take a right onto Pilot Drive. Proceed about 100 yards on Pilot Drive and park in the small lot at the trailhead for Mallard Point in Somerset. Part of the trail is the remnant of a train bridge that formerly crossed the river. Walk the trail and check the thickets for White-throated Sparrows and flocks of American Robins in winter. The end of the trail provides a decent view of the river. If the river is frozen, large numbers of gulls may be visible from this point. A careful check of any patches of open water on the frozen river will likely produce sightings of Greater Scaup, Buffleheads, and Common Goldeneyes. This area is another good place to look for Bald Eagles in winter.

7. Somerset Waterfront Park

To reach the park, backtrack on Pilot Drive and take a left on Old Colony Avenue. Travel on Old Colony Avenue for 0.1 mile and take a left onto Main Street. Continue for 0.3 mile and look for the entrance to Somerset Waterfront Park on the left. Continue down the access road to the parking lot at the edge of the river. This is one of the most reliable places on the river to find large numbers of gulls. The most common species here is Ring-billed, but it is worth checking the flocks for something more unusual such as Iceland, Lesser Black-backed, or Glaucous gulls. A short walk to the southeast corner of the park may result in sightings of Gadwalls, American Wigeon, and Northern Pintails. In the winter, these birds are often pressed tightly against the shore and easily viewed without the aid of a spotting scope. In the winter of 2011, a harbor seal was seen here. Although this mammal is rarely observed on the Taunton River, it has been reported as far upriver as Middleboro and Bridgewater.



Gadwall.

8. Pierce Beach

Return to Main Street and continue south for 0.2 mile and take a right onto South Street. Continue on South Street for another 0.2 mile and take a left into the Pierce Beach Playground. Follow the entrance road to the parking area, but travel slowly and scan the stream on the right for dabbling ducks. From the first parking area, take the short walk south to the beach. The elevation here offers a nice view of the river. Continue down toward the southwest corner of the beach and check the area where the stream flows into the Taunton River. Some years, impressive concentrations of

Mallards and American Black Ducks can be found here. In addition, this is a reliable location for wintering American Wigeon. It is also a good place to look for occasional scoters, Long-tailed Ducks, Common Loons, Red-throated Loons (rare), and Horned Grebes. The highest section of the park, east of the parking areas and playground, contains many autumn olive trees, which sometimes teem with migrant American Robins in the fall. Look for migrant Fox and White-throated sparrows and Eastern Towhees picking through the leaf litter below. Any of the open areas in the park may hold migrants like American Pipits and Savannah Sparrows in mid-April.

9. Dighton Rock State Park

Situated on the east side of the Taunton River, Dighton Rock State Park is an 85-acre property in the town of Berkley (the site of the park was formerly a part of Dighton). To reach this park, go east on Center Street from the Bristol County Agricultural High School. Continue 0.7 mile, crossing the Berkley Bridge, and take a right onto Bay View Road. Then travel 1.5 miles to the entrance of the park on the right. Follow the entrance road (Edmund B. Delabarre Road) to the parking lot. The park has a number of interesting habitats including red maple swamp, cattail marsh, and dense thickets. Most of the habitat is white pine/red oak forest; several trails meander through this common habitat of southeastern Massachusetts. Listen and look here for Hairy Woodpeckers, Northern Flickers, Brown Creepers, and Winter Wrens in the winter. Hermit Thrushes may also be found in the thickets and the tangles at the edges of red maple swamps. In spring and summer, the forested areas in the park contain Red-bellied Woodpeckers, Eastern Wood-Pewees, Eastern Phoebes, Great Crested Flycatchers, Pine Warblers, and other common woodland breeding species.

A walk from the parking area toward the river may be rewarded with sightings of Belted Kingfishers, Eastern Kingbirds, Warbling Vireos, Eastern Bluebirds, and Baltimore Orioles in summer. The small white building at the northwest corner of the park is the Dighton Rock Museum, open by appointment only from Memorial Day through Labor Day. To schedule a visit, call 508-644-5522. Many of the waterfowl described for Muddy Cove (across the river) may be observed from this park in winter. However, the park offers a better view of Grassy Island to the north as well as points north and west on the river that cannot be viewed from the opposite shore.

10. Assonet Neck

After birding Dighton Rock State Park, return to Bay View Avenue and continue south 2.0 miles to a small parking area at the confluence of the Taunton and Assonet rivers. The beach just south of the parking area is a great place to look for ducks and raptors in the winter. In 2003, a Forster's Tern was observed near this location during the Taunton/Middleboro CBC. After viewing the river, explore the side roads running east and west of Bay View Avenue as far north as the entrance to Dighton Rock State Park. Assonet Neck is reliable for early-winter lingering species such as Yellow-bellied Sapsuckers, Pine Warblers, Chipping Sparrows, and Rusty Blackbirds (look for the



Taunton River from Assonet Neck.

latter species in patches of wooded swamp habitat). Thickets in this area also warrant a look since Hermit Thrushes, Gray Catbirds, and Eastern Towhees may be present.

11. Assonet Bay

To reach Assonet Bay in the town of Freetown, travel north on Bay View Avenue to the junction of Elm Street. Take a right on Elm Street, continue for 0.2 mile, and take a right on South Main Street. Continue for 2.2 miles and look for Gramp Deane Road on the right. Take a right on Gramp Deane Road. From the road, check the field on the right for Rough-legged Hawks and Northern Shrikes. The field, which abuts the northeast shore of Assonet Bay, sometimes has large flocks of Canada Geese in fall, winter, and early spring.

Continue on Gramp Deane Road for 0.2 mile and look for the sign for the Freetown Conservation Area, which is also known as Porter Pasture. Nonresidents of Freetown must purchase a sticker for a nominal fee at the town hall (3 North Main Street, Assonet) in order to access the area. Take a right onto the dirt entrance road and continue through a wooded area to a small dirt parking lot on the right. A short walk toward the water will reveal an unobstructed view of Assonet Bay. This is a reliable area to see large numbers of migrant Common Mergansers in the fall. Look for ducks, geese, and raptors from the shore, and listen for Belted Kingfishers and flocks of wintering sparrows such as American Tree Sparrows and Dark-eyed Juncos. An immature Golden Eagle was sighted here during the Taunton/Middleboro CBC in 2011.



Bald Eagle.

Additional Areas

The following areas are not included in the suggested route because they are brief stops and most productive during the winter months only. Where there are no public trails, it is best to observe birds from the road.

12. Dighton Town Offices

This site is located on Somerset Avenue (Route 138) just 0.1 mile north of the intersection with Center Street. On the east side of the public walking track behind the town offices, check the thickets and a small marshy area. These areas, and the grassy patches nearby, have consistently hosted species such as Winter Wrens, Eastern Bluebirds, and Chipping, Fox, and Swamp sparrows in winter.

13. Brook and Elm streets

From the Dighton town offices, continue south for 0.6 mile and bear right onto Elm Street. Proceed for another 0.4 mile and take a right onto Brook Street. Travel on Brook Street as far as the Segregansett River. The wooded areas on either side of the street are good for Rusty Blackbirds. Sometimes large flocks of American Robins are also present. Continuing west a short distance will lead to a series of small agricultural fields. These fields have occasionally produced Red-winged Blackbirds and Common Grackles in midwinter.

Retrace the route back to Elm Street and drive south to the bridge over the Segregansett River. Park before the bridge and check the marshes and trees at the edge of the river. Swamp Sparrows are frequently heard and observed in the cattails in winter. Red-bellied Woodpeckers and Northern Flickers are regularly observed in the trees nearby. Look for ducks on this section of the river and be sure to check the thickets on the northwest side of the road for a variety of sparrows and semi-hardy lingering species such as Ruby-crowned Kinglets, Gray Catbirds, and Eastern Towhees.

In summer, listen for the hypnotic rising and falling song of the Yellow-throated Vireo emanating from the tops of large deciduous trees growing near the river. This species has had an incredible resurgence in the Taunton River watershed in the thirty years that have elapsed between publication of the Massachusetts Breeding Bird Atlas I in the 1970s and the Breeding Bird Atlas II that was completed in 2011.

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Jim Sweeney, of Providence, Rhode Island, has been an avid birder since 1980 and has birded extensively in New England, the mid-Atlantic states, the American Southwest desert, and Iceland. He has been fortunate to pursue his ornithological interests from the highlands of Central America to sub-Saharan Africa. Jim is a past vice-president of the South Shore Bird Club and has recently served as a council member for the Nuttall Ornithological Club. He has also been the compiler for the Taunton/Middleboro Christmas Bird Count since 2007. In addition to birds, he has a passion for dragonflies and damselflies. Jim thanks Wayne Petersen for reviewing early drafts of this article and for his many helpful comments.



RING-NECKED DUCKS BY JIM SWEENEY

Ernst Mayr: Building on Charles Darwin's Legacy in the Twentieth Century

William E. Davis, Jr.

Ernst Mayr is one of the leading evolutionary biologists of the twentieth century (Bock 1994, Diamond 2005). During the latter part of his career, he became prominent in the fields of history and philosophy of biology (Haffer 2007). In his nearly 101 years of life, he published more than 825 scientific notes, articles, and reviews, and 25 books—a prodigious accomplishment (Haffer 2005). Despite his prominence in several areas of biology, Mayr remained fundamentally a naturalist with a special interest in ornithology. It has been argued that his broadly based interest in the natural world allowed him to achieve so much (Bock 1994, Lein 2005). As Walter Bock, one of Mayr's students at Harvard and one of his biographers, states:

Absolutely fundamental to Mayr's entire career and to all his work in systematics, evolution and philosophy is the fact that he is first and foremost a naturalist and, within his interest in natural history, an ornithologist. (Bock 1994)

Another interesting aspect of Mayr's career was the series of chance events that enormously affected the trajectory of his life. The effect of these events on the career of Ernst Mayr was important (Bock 2004, Haffer 2007), but more important was his ability to capitalize on such events and use them to his advantage.

Mayr's early years—the die is cast

Ernst Mayr was born on July 5, 1904, in Bavaria, Germany to parents who had strong interests in natural history and who got young Ernst off to a flying start:

I have been a naturalist, I would say, ever since I could walk. My parents were very much interested in nature and took me and my two brothers out to watch birds, to collect fossils, to find spring flowers and everything else. So I ardently followed all of these things, but particularly birds. (Mayr 1993)

By his early teens, Mayr could identify all the local birds by sight and vocalizations. The family moved to Dresden where Ernst completed his secondary school training and received a new pair of binoculars as a graduation gift. That month, March 1923, he observed a pair of Red-crested Pochards (*Netta rufina*), a rare species in Germany at that time (Bock 2004). If Mayr's recollections were correct, this sighting had enormous consequences, because it led to an introduction to Erwin Stresemann at the Natural History Museum of Humboldt University in Berlin. Mayr, following family tradition, had decided to enter medical school and had chosen the University of Greifswald in northeastern Germany because it was located in a region

of ornithological interest. On his way to the university, he stopped in Berlin with a letter of introduction to Stresemann, and reported his sighting of the rare pochards. Stresemann was apparently impressed by the young Mayr, because he encouraged the publication of the pochard sighting—Mayr's first publication (Mayr 1923)—and invited Mayr to work as a volunteer at the museum during his holidays. Mayr did spend his school holidays working at the museum: "It was as if someone had given me the key to heaven" (Mayr, quoted in Bock 2004). Two years later, when Mayr finished the preclinical part of medical school, Stresemann talked Mayr into changing careers by capitalizing on Mayr's ornithological interests and promising to arrange an ornithological expedition for him when he finished his schooling. So Mayr moved to Berlin and began a Ph.D. with Stresemann. In a veritable binge of effort, Mayr completed his coursework and his dissertation in just 16 months at age 21—Ernst Mayr was no slouch, and obviously a bright young guy. Stresemann immediately offered him a job as an assistant in his museum, which Mayr accepted.

Mayr in the field: New Guinea and the Solomon Islands

Stresemann made good on his promise to arrange an expedition for the young ornithologist. When Lord Walter Rothschild, with his huge private collection of bird skins in Tring, England; Ernst Hartert, curator of Rothschild's collection; Leonard C. Sanford, a patron of the Department of Ornithology at the American Museum of Natural History (AMNH) in New York; and Stresemann were mulling over plans to send a collecting expedition to the South Seas with a focus on New Guinea, Stresemann suggested that Ernst Mayr be the collector (LeCroy 2005). After being introduced to Lord Rothschild at the International Congress of Zoology in 1927, Mayr went to Tring to learn New Guinea birds and to plan the trip. He discussed his motivation and his plan in a 1985 interview:

I'm sometimes asked, what really was my research plan when I went out to New Guinea in 1928. To be frank, when I went out there I had very little by way of a plan. My imagination had been fired by the description of the wonders of the tropics in the writings of Alexander von Humboldt, Darwin, and Alfred Russel Wallace. I was only 23 years old at the time, and to have a similar experience seemed the most desirable of all possible goals. (Mayr 1985a)

Mayr once commented that Stresemann had told Rothschild that Mayr was an experienced collector and the perfect man for the New Guinea job. Mayr had to quickly learn the techniques of specimen preparation, something he had not done before. He was still amused by Stresemann's tactics many decades later (R. Lockwood, pers.com.).

Mayr arrived in western New Guinea (then Netherlands New Guinea) in April 1928 and collected in a series of mountain ranges and lowlands until December. He then shifted his efforts to what is now Papua New Guinea, collecting until the end of May 1929.



Ernst Mayr (right) in New Guinea in 1928. (All photographs courtesy of the author, William E. Davis, Jr.)

The conditions under which he worked were harsh. In an interview when asked, "How did you do it?" he replied:

I've wondered myself. I was 23 years old when I went out there. And I tackled one job after another for which I was not qualified. I had a self-confidence that was scandalous. I didn't appreciate all the dangers and things that could go wrong....[there was no direct way get from Netherlands New Guinea to Papua New Guinea] And I said "I'm going to just walk over there

and take canoes or something like that." Every person said: "You can't do it. The natives are not friendly and you will have trouble...and you will definitely perish." I just didn't listen, and I nearly *did* perish! But I finally did talk my way through. (Dreifus 2002)

While working in New Guinea, Mayr received an invitation to join the Whitney South Sea Expedition of the American Museum of Natural History. He joined the expedition in the Solomon Islands in July 1929, and stayed with it until February 1930 (LeCroy 2005).

The Whitney South Sea Expedition had begun in 1920 and would continue until the outbreak of World War II. It was probably the most extensive series of ornithological expeditions ever undertaken (Lanyon 1995). As a result, the AMNH's collection continued to swell. Under pressure to hurry along the publication of the studies of the collection to please Harry Payne Whitney, who bankrolled the Expedition, the directors brought Mayr to the AMNH for a year to produce systematic papers (such as naming new species and subspecies) as he worked up the collections. Thus, with Stresemann's approval, Mayr became a Visiting Research Associate in the Department of Ornithology of the AMNH in 1931. During that year, Mayr—with his usual enormous energy—published six papers on the Whitney collection in the *American Museum Novitates* series (e.g., Mayr 1931) and six other papers, naming 12 new bird species and 68 new subspecies (Bock 2004).

Then an event occurred that changed Mayr's status at the AMNH. Lord Rothschild, having been blackmailed by a mistress for a number of years, was in financial difficulty. To raise money, he decided to sell his prodigious collection of stuffed birds, the largest private collection in the world. The British Museum failed to raise the money, so Rothschild contacted his friend Leonard Sanford of the AMNH, who turned to Gertrude Vanderbilt Whitney for the funds. The collection of 280,000 bird specimens became AMNH property in early 1932 (LeCroy 2005). With the acquisition of the Rothschild collection, the task of moving the AMNH's vast collections into the new Whitney Wing that was to house the ornithology collections became an even more laborious undertaking. The museum hired Ernst Mayr on a permanent basis as Associate Curator of Birds to help with the workload and to oversee the handling of the land bird portion of the Rothschild collection. Later, he became responsible for the development of the Sanford Hall of the Biology of Birds—another timeconsuming responsibility. By 1935, Mayr had become the Whitney-Rothschild Curator, and by 1944, a full Curator— and the dominant force in the AMNH Department of Ornithology (Lanyon 1995).

When Ernst Mayr came to the United States in 1931, he was not pleased with the state of ornithology that he found here. And he was never one to shy away from expressing his thoughts on a subject. I interviewed Mayr in connection with projects of the Nuttall Ornithological Club (Davis 1987) and for a project on the history of North American ornithology with Jerry Jackson. In a 1996 interview with me, Mayr compared the study of ornithology in Europe and the United States when he arrived:

...In England there were observers, people like [Edmund] Selous and Eliot Howard who really studied birds in the field. Julian Huxley made observations in the 1920s of the Great Crested Grebe.... That sort of study was virtually unknown in the United States. If there was one thing American birdwatchers never did, it was to *watch* a bird. As soon as it was checked off the list, on they went. I always tell the story of once going on a so-called Big Day in New Jersey. We went to the Troy Marshes, and it was in early April. The marsh vegetation was still very low, and there was an American Bittern a short distance away. We were on a long dike, a party of about 20 of us...I saw this bittern displaying and I was absolutely fascinated. They just checked off "bittern" and went on. I knew that they had to come back the same way, so I just sat there for half an hour watching the bitterns and taking notes on their courtship. The others came back and they had in the meantime added another seven species to their list. They were happy and I was happy!

Clearly, Mayr was not a lister in the usual sense and didn't think birdwatching of that type was of much value. I also asked him about the American Ornithologists Union (AOU) in 1931 and got an even harsher reply:

I attended my first AOU meeting in 1931 in Detroit...I was appalled at the program. There was title after title like "A First Record of the Green-tailed something-or-other from Oklahoma," or "An Early Arrival Date for the Dickcissel for the State of Missouri"—all sort of phenology or arrival or departure of rare birds.... There was hardly a paper in the whole lot that dealt with the details of a life history study, a courtship display, anything like that....I was appalled and I remember at that meeting that I was so disgusted with the absolute vacuousness of the papers that I went over to the library of the Museum of Zoology in Ann Arbor to read the current literature. There was one other person there, a lady, and I introduced myself. She had a name tag on so I knew she was a member of the AOU. It was Mrs. [Margaret Morse] Nice. That's where I first met her. She had had the same experience. Appalled at the emptiness of the program, she also went to the library.

As it turned out, Mayr became the Editor for the *Proceedings* and *Transactions* of the Linnaean Society of New York and was influential in publishing the Song Sparrow monographs of Margaret Morse Nice (1937, 1943), which are considered by many to be the finest life history studies ever published in the United States.

In the early 1930s, the AOU was run by fellows who were aging and had little or no academic background. The young Ph.D.s generally felt that the older generation had lost touch with modern ornithological methods and it was time for a change. Mayr joined Herbert Friedmann and other more progressive ornithologists in an attempt to reform the AOU. In 1937, Mayr pushed to get a series of amendments to the AOU constitution and bylaws. Most of his proposals were rejected by the conservative organization, but Mayr and Margaret Morse Nice were elected fellows after a lot of behind the scenes manipulation. In my 1996 interview with Mayr, he gave the following account of the reform movement:

At the time, the AOU was controlled by what I called the "Washington crowd." This group included all the people of what in those days was called the Biological Survey, now called the Fish and Wildlife Service. Among the Washington crowd were T. S. Palmer (since he was very much interested in the obituaries of ornithologists, they called him "Tombstone Palmer"), W. L. McAtee (served as President of the AOU), H. C. Oberholser, A. K. Fisher... Fred Lincoln, and a lot of other people having to do with fish and game sorts of things. They had an intimate knowledge of parliamentary proceedings and all that, and they had adjusted the AOU Constitution and Bylaws to serve their purposes. The most important thing was that they declared that the first vote for any election was a nomination vote. From that point on voting was on what came out on the nomination vote. What the Washington crowd did—and there was always a block of about 20 to 30 in the group—was to get together beforehand. They essentially would say "There's one vacancy in the class of Fellows, let's all vote for E. A. Preble, he's one of our boys." So came the first nomination ballot, and there's 27 votes for Preble, 8 for Margaret Morse Nice, and so forth, because the people from Boston, New York, Philadelphia, Chicago, Michigan, Ohio State, California, Louisiana, all voted for their own man, each had only two, three, or five votes, while the Washington gang had 25-30 votes. So people said "Oh my God, that's going to be a long election—let's vote for that first one, he's already practically in." Now in this particular instance—E. A. Preble vs. Margaret Morse Nice—...he might not have published an ornithological paper for 20 years when he was elected. But he was one of the Washington gang.... Mrs. Nice already at that time was quite distinguished. She had published papers in foreign journals; she was a real, leading ornithologist. Yet the Washington crowd was able to work her out of there by their way of doing things.... A lot of younger people, older people too, were appalled by it. They were all opposed to it, but they did nothing about it. But I got together a group of people, particularly helpful was Joe Hickey. Of the Washington people, one was with us, and that was Herbert Friedmann.... We made up an ideal slate of people to be elected and then we talked to Grinnell from California, Taverner from Canada, and so on, Glover Allen from Boston, and said "Look here, this splitting the votes of the good people never gets us anywhere. We have to select one slate and all vote for it".... That was the end of the power of the Washington crowd because immediately all the offices were taken away from them.

That election was in 1935. Two years later, after the reform movement was in action, both Mayr and Margaret Morse Nice were elected Fellows. (See Barrow 1998 for a full discussion of the reform movement.)

Mayr was also unhappy with the Linnaean Society of New York, which he thought emphasized listing and the rapid identification of birds in the field rather than the study of birds and their behavior. Although he was a recreational birdwatcher throughout his life, his sympathies lay with the more serious aspects of birdwatching. Mayr initiated a monthly bird seminar at the Linnaean Society at which he and others abstracted and discussed the recent literature of field ornithology. His seminars attracted members of the Bronx County Bird Club, including Joseph Hickey, William Vogt, Allan Cruickshank, and Roger Tory Peterson, who all were to have substantial ornithological careers. It was Mayr who connected Joseph Hickey with Aldo Leopold, which eventually resulted in Hickey taking over Leopold's professorship after Leopold's death.

Despite his many responsibilities, Mayr continued to work on bird systematics, publishing during his tenure at the AMNH more than 250 scientific papers and describing 26 new bird species and 445 new bird subspecies. Part of this scientific work involved another of his specialties, biogeography, which concerns the study of the distribution and dispersal of organisms, including the expansion or contraction of ranges, in Mayr's case mostly of birds (Vuilleumier 2005). By 1939, Mayr had also laid the groundwork for the theory of island biogeography, later made famous by Robert MacArthur and E. O. Wilson (Bock 1994). This systematics and biogeography work was to provide the basis for Mayr's expanding interest outside of ornithology to evolution, and the history and philosophy of biology, where his greatest achievements lie.

The Modern Evolutionary Synthesis and the Biological Species Concept

After a decade of systematics and biogeography work at the museum, Mayr began to branch out into more theoretical work that took him beyond the boundaries of ornithology and into the limelight of twentieth-century biology.

In the 1930s, Darwinian evolution was in a muddle with the geneticists and field biologists not communicating. As Mayr described it:

We had two main branches of evolutionary biology—the laboratory geneticist and the field naturalist—and each was highly ignorant of what the other knew and the kinds of ideas, concepts, and evidence the other had. As a result, they were both one-sided in their explanations. Bringing the two branches together led to a broader, more sophisticated, more mature interpretation of evolution, though it was still within the Darwinian framework.(Mayr 1983)

This more mature model for evolution is generally referred to as the Modern Evolutionary Synthesis, and Ernst Mayr played a prominent role in its establishment. His major contribution was to solve the problem of how species originated, an area in which Darwin, despite the title of his 1859 classic, said little. In Mayr's own words:

My contribution to the evolutionary synthesis was to introduce the study of diversity, the explanation of species, of how they originate, and how one gets from there to the higher taxonomic categories. (Mayr 1993)

Mayr's contribution to evolutionary synthesis began at a symposium on speciation at the 1939 meeting of the American Association for the Advancement of Science, in

which Mayr was asked to speak on geographical variation and speciation. Mayr long held that there was no better place in the world to observe speciation than the Solomon Islands, so he had a strong firsthand knowledge upon which to draw (Mayr 1993). His talk was a great success. After the lecture, L. C. Dunn of the Zoology Department of Columbia University asked Mayr to participate in the Jesup Lectures series at Columbia. Dunn then encouraged Mayr to expand his Jesup lectures into a book. The book, *Systematics and the Origin of Species* (1942), met with great scientific acclaim; along with Theodore Dobzhansky's earlier *Genetics and the Origin of Species* (1937), and George Gaylord Simpson's later *Tempo and Mode in Evolution* (1944), it became the backbone of the modern evolutionary synthesis. One contributing factor to the success of Mayr's book was that he brought to the attention of the English-speaking audience the substantial European literature on systematics and evolution, which was largely written in German.

The heart of Mayr's contribution was the development of the biological species concept, which views species as natural biological units, with species consisting of a population (or populations) of organisms that are reproductively (genetically) isolated from all other organisms. He also emphasized that speciation occurs (in vertebrates—most of the time) when populations of a species become geographically isolated and go their own merry evolutionary way. The significance of the evolutionary synthesis is demonstrated in Mayr's own words:

Darwinian evolution was not a single theory, as Darwin always insisted, but was actually composed of five quite independent theories. Two of these were readily accepted by Darwinians: the simple fact of evolution (the "non-constancy of species" as Darwin called it) and the branching theory of common descent. The other three—gradual evolution, the multiplication of species, and natural selection—were accepted by only a minority of Darwin's followers. Indeed, these three theories were not universally accepted until the so-called Evolutionary Synthesis of the 1940s. (Mayr 2004)

The biological species concept had a profound effect on biological thinking—as Richard Schodde (2005) explained: "This concept linked the biological species to genetics and ecology, thereby anchoring it in general biological theory."

Mayr became one of the core members of a group that founded the Society for the Study of Evolution. He became the first editor of the Society's new journal *Evolution* from 1947-1949 and president in 1950.

The winds of change were blowing strong for Mayr in the early 1950s. Increasingly, he wanted to be part of an academic setting and have graduate students. Leonard Sanford, Mayr's great friend and mentor at the AMNH, died in 1950, cutting Mayr's major tie to the Museum. In 1953, when Mayr received an offer to become the Alexander Agassiz Professor of Zoology at the Museum of Comparative Zoology, Harvard University, he accepted, entering a new phase of his professional life.



Ernst Mayr at his desk at the MCZ.

The Museum of Comparative Zoology: Evolution and the History and Philosophy of Biology

During the half century following his move to Harvard, Mayr continued to produce papers and books on evolutionary subjects. His two books, *Animal Species and Evolution* (1963) and its abridgement *Populations, Species, and Evolution* (1970), solidified his position as a leading evolutionary biologist in the twentieth century, and entrenched his arguments in the thinking of countless graduate students. Haffer (2007) described these books as "masterly summations of species and speciation, and magnificent synthesis of population genetics, variation of populations, the origin of species, and adaptive specialization." Thereafter, Mayr's major books, *The Growth of Biological Thought* (1982) and *One Long Argument* (1991a), reinforced his importance in the field of evolutionary biology and dovetailed with his increasing interest in the history of biology. Mayr once commented that he wished he had left the AMNH earlier as his broader contributions to evolutionary biology were more intellectually satisfying and more profound than his systematic work (R. Lockwood, pers. Com.).

Mayr continued his interests in ornithology, albeit on a more limited scale. In concert with his broadening biological interests he wrote a series of papers in which he extolled the virtues of using birds as research subjects (e.g., Mayr 1963). Birds, for example, are largely diurnal so they are easier to study than the mostly nocturnal mammals; and birds use the same senses that we do—sight and hearing—which makes

interpretation of behaviors easier than with the mostly chemosensory mammals. He also stated that ornithologists were the first to consider the importance of ecological and behavioral factors in biogeography, and that that the study of biodiversity is nearly entirely based on ornithological studies (Mayr 1984). He also persisted with his biogeography work, which culminated in 2001 with *Birds of Northern Melanesia: Speciation, Ecology, and Biogeography* (Mayr and Diamond 2001).

Mayr was president of the Nuttall Ornithological Club, the oldest ornithological association in North America, from 1957-1959, where he unsuccessfully tried to get the membership involved in long-term research projects (Davis 1987). He was president of the American Ornithologists' Union from 1956-1959; on the Council of the Northeastern Bird-banding Association (now Association of Field Ornithologists); a director of the Massachusetts Audubon Society; and president of the 13th International Ornithological Congress in Ithaca, New York, in 1962; and an honorary or corresponding member of the Royal Australasian and British Ornithologists Unions—all very birdy connections. On a more cosmopolitan scale, he was an honorary or corresponding member of the Linnaean and Zoological Societies of London and the Royal Society of New Zealand; a member of the National Academy of Science; and a fellow of the American Academy of Arts and Sciences (Root and Elkins 1973).

In the last 40 years of his life, Mayr, changed his major fields of interest to the history and philosophy of biology. These fields overlap with his interests in evolution because the modern evolutionary synthesis has a strong historical component. His *The Growth of Biological Thought* (1982) is considered by many to be the best historical coverage of the evolutionary aspect of biology. In a long series of papers and books (e.g., Mayr 1985b), he delved into topics such as teleology, ethics, and the differences between the physical and biological sciences (Bock 2004). Mayr emphasized the distinctiveness of biology within the history and philosophy of science, and its emancipation from the physical sciences. As Jared Diamond summed up:

... as a historian and philosopher of science, in recent decades Mayr clarified the regularly misunderstood central concepts of biology: teleology; the foundations of biological classification; proximate and ultimate causation; the special problems posed by historical sciences to which experimental methods cannot be applied; and the distinctiveness (autonomy) of biology as a science. (Diamond 2005)

Mayr's vast achievements earned him numerous honors. He received honorary doctorates from 10 universities, including Uppsala University in Sweden, University of Melbourne in Australia, Oxford in England, University of Munich in Germany, and Yale in the United States. He received 33 awards, including the Joseph Leidy Award of the Academy of Natural Science, Philadelphia (1942); the Darwin-Wallace Medal of the Linnaean Society of London (1958); the William Brewster Memorial Medal, the highest award given by the AOU (1965); the Daniel Giraud Elliot Medal of the

National Academy of Science (1967); the Addison Emery Verrill Medal of Yale (1967); the National Medal of Science (1970), the Balzan Prize, considered the Nobel Prize



Ernst Mayr in his later years.

of Biology (1983); and the International Prize for Biology, called the Japan Prize (1994) (Root and Elkins 1973, Pennisi 2004).

Why was Ernst Mayr so Successful?

Ernst was a tireless worker. For example, during his years at the MCZ (including being director from 1961-1970), Mayr would retire with his wife to their farm in southern New Hampshire on weekends and in the summer for extended periods where he could work. He usually was up early and often dictated for several hours to start his day (Lein 2005).

In a 2005 obituary, Jared Diamond explored some of the characteristics that led to Mayr's success:

When I met Mayr [at Diamond's father's home in 1953] that Sunday, I was a 16-year-old schoolboy. He later inspired me to launch a second career, parallel to my work as a membrane physiologist, on the evolutionary biology of New Guinea birds, his own early specialty. For 30 years he and I collaborated on analyzing a mammoth data base that he had accumulated on the distribution of island birds. The result was a co-authored 556-page book published soon after his 97th birthday [Mayr and Diamond 2001]. That Sunday lunch and its consequences illustrate many keys to Mayr's greatness: his capacity for close friendships and collaborations with younger scientists as well as with peers; his broad perspective that let him recognize new significance in the work of many specialists; and his capacity for sustained hard work and complex analysis....

What accounted for Mayr's remarkable originality and productivity? I came to realize that there wasn't a single explanation but a combination of a dozen of them—cognitive, organizational, emotional and social. Among the cognitive ones, he had an outstanding memory. When, in 1965, 24 years after the peak of Mayr's work on New Guinea birds, John Terborgh and I asked him to identify the stuffed bird specimens that we had just collected in New Guinea, we saw that, for each of the 1,400 species and subspecies of birds that he had discussed in his 1941 *Checklist of New Guinea Birds*, Mayr still remembered who had described it—and when and in what journal, its differences from its relatives, and its alternative names....

Mayr was also a quick learner: in the month before he reached New Guinea in 1928, he learned to speak Malay and Neo-Melanesian, to shoot a gun, and to skin and stuff birds. Like Darwin, he was a constantly curious field observer....

During Mayr's many years as a museum director at Harvard, a job that absorbed his daytime hours, he maintained his scientific output by writing each morning from 4:30 to 7:30 a.m., then spending the evening reading....

Despite not visiting an English-speaking country until his twenties, Mayr mastered English as a second language to the point where his English prose style was widely admired for its clarity. (Diamond 2005)

This certainly appears to be the description of a genius. As Jerry Coyne stated in a 2005 article, "It is not too much of an exaggeration to call Mayr the Darwin of the 20th century." Coyne also examined the parallels between the careers of Darwin and Mayr: both began their careers by going to medical school, both abandoned medicine to launch a career in what had been their avocation, and both went on extensive voyages that strongly influenced their later careers.

Another factor in Mayr's success was doggedness and bluntness that sometimes bordered on rudeness, backed by a prodigious self-confidence—he didn't back down from anything or anyone. These qualities served him well in his many battles with scientists and other people with opposing views. In a 1983 interview, Mayr responded to a question about the paleontologist-backed theory of punctuated equilibrium:

Let me put it more bluntly. Paleontologists are totally unqualified—because of their time scale, methods, and materials—to discuss this particular process. It has to be studied by population biologists.

In the same interview, responding to the topic of man's current role in the destruction of biodiversity, Mayr stated:

The worst problem is the [human] population explosion. A stable population would be the first step in the salvation of mankind. But as long as we have church authorities, especially the Popes, who proclaim "Go out and breed as much as you can," there is no hope for mankind.

Mayr also apparently gave nature a nod in the "nature vs. nurture" controversy, responding, in a 1991 interview, when asked if genetics played a role in Darwin's life and success:

Yes. I have this somewhat subversive thought that genetic constitution can be very helpful to a person, and it certainly was clear in the Darwin family. His children and grandchildren have been quite prominent too. There's no doubt about the genius of Darwin and he certainly didn't get it from his environment. That was something he was born with.

In a 1993 interview, he hinted at a similar situation for himself while revealing a sense of humor:

Omni Question: "What is the philosophy of life that keeps you so vigorous and involved at age seventy-eight?"

Mayr: "I was very careful in the selection of my ancestors."

Mayr remained mentally sharp until the end of his life. Shortly before Mayr's 100th birthday, there was a celebration symposium of Mayr's lifetime achievements at which many of his former students and colleagues gave talks. Lynn Margulis mentioned (2005) that the "most moving and informative of the talks, in my opinion, was the final statement by Ernst Mayr himself!" I was also at the symposium and agree with her assessment. Margulis also relates in the same article a conversation she had with Mayr three weeks before his death:

I called him at home in Bedford and asked, "Ernst, how are you? How do you feel?" He responded cheerfully, "I feel fine. That is I feel exceptionally well given the diagnosis." "What diagnosis?" I asked. "Didn't I tell you? The doctors tell me I have cancer. It has already metastasized, but I don't feel sick." "Oh, Ernst, I'm so sorry," I responded. "Well Lynn," he said cheerfully, "I will have to die of something."

Ernst Mayr was one tough evolutionary biologist. 🖪

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PHOTO ESSAY

Snowy Owl Season

David M. Larson







GLEANINGS

Three Degrees of Sweetness

David M. Larson

[Editor's Note: With this issue we present a new feature, "Gleanings," by David Larson. In each issue, David will summarize an interesting recent publication from the ornithological literature. We hope that you will enjoy this feature.]



Female Ruby-Throated Hummingbird at Feeder. Photograph by Sandy Selesky.

Hummingbirds, such as the Ruby-throated Hummingbird (*Archilochus colubris*) that we see here in New England, have a high metabolic rate even at rest; that is, they burn through energy stores quickly. At night or during migration, when they are unable to feed, the birds utilize stored fats for energy. When active, their metabolic rate is much higher, especially during hovering flight, a particularly energy-expensive activity. Much of the food energy the birds use to support body maintenance and flight comes from the sugars in plant nectar that they consume. Sugars in flower nectar include the simple monosaccharides glucose and fructose and the disaccharide sucrose, which contains a molecule each of glucose and fructose. Ingested sugars are metabolized with byproducts including carbon dioxide (CO₂) and water.

Chen and Welch (2013) tested the ability of Ruby-throated Hummingbirds to utilize these different sugars during hovering flight. Captive hummingbirds were fed defined sugar solutions (glucose, fructose, or sucrose) and glucose or fructose labeled with a stable isotope of carbon (13 C). The feeding stations included respiratory masks that allowed analysis of oxygen consumption and CO₂ production as the birds hovered and fed. By measuring the proportion of labeled 13 C in the exhaled CO₂, the investigators could calculate the ability of the hummingbirds to utilize sugars to power hovering flight.

The results of the study indicated that the hummingbirds can quickly switch from using internal fat energy stores to using recently-ingested carbohydrates (near 100% in some birds), whether supplied with glucose or fructose. Support of metabolism by simple sugars in feeders during hovering flight averaged 81% (glucose) to 88% (fructose), indicating a near-total reliance on ingested sugar.

By direct utilization of sugar solutions in nectar or from feeders for energetically expensive hovering flight, hummingbirds avoid the waste of time and energy inherent in the classic pathway of converting sugars to fats for use as an energy source. Unlike mammals (including nectivorous bats), hummingbirds can utilize both glucose and fructose efficiently. These results imply that the flight muscles of hummingbirds have physiological pathways for direct utilization of fructose and do not need to convert fructose to glucose as in mammals.

Finally, this study confirms that hummingbirds behave as "carbohydrate maximizers" during foraging (Suarez et al. 1990). They feed to capacity on sugars, accounting for the energy content of the sugar solution. After feeding, they resume foraging just before or when the recently ingested sugars are depleted. This fine control of energy stores ensures complete carbohydrate-based metabolism and avoids the use of more energetically expensive fat reserves. In conclusion, Ruby-throated Hummingbirds have evolved behavioral, physiological, and metabolic adaptations for efficient feeding on flower nectar.

References

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ABOUT BOOKS

Driven

Mark Lynch

Alexander Wilson: The Scot Who Founded American Ornithology. Edward H. Burtt Jr. and William E. Davis Jr. 2013. Cambridge, Massachusetts: The Belknap Press of Harvard University Press.

"Throughout his literary career Wilson was driven to excel." (p. 8)

"1 June 1803...I have had many pursuits since I left Scotland, Mathematics, the German Language, Music, Drawing, & cc...., and I am now about to make a collection of all our finest birds." Alexander Wilson in correspondence to a friend in Paisley, Scotland. (p. 283)

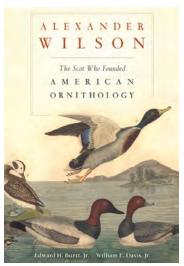
If you bring up the subject of bird study in early America, it is safe to bet that most people, including birders, will first think of John James Audubon. People *ooh* and *aah* relentlessly over his double-elephant-sized folio prints, and almost everyone has heard of the numerous Audubon Societies. John James Audubon has become a brand name. Sadly, when talking about the history of ornithology in America, almost no one ever mentions Alexander Wilson (July 6, 1766–August 23, 1813). Wilson accomplished more for the science of ornithology than Audubon, was a more appealing person, and had a fascinating history. He was a true polymath, interested in everything. Still, most people have no idea who Wilson was. Wilson was much more than the namesake for a petrel, a phalarope, a plover, and a warbler. Few people have even read his masterwork, the nine volume *American Ornithology*. Like Rodney Dangerfield, it seems that Alexander Wilson "can't get no respect".

Edward H. Burtt Jr. is Cincinnati Conference Professor of Zoology at Ohio Wesleyan University. William E. Davis Jr. is Professor Emeritus at Boston University. Together they have assembled a tribute to Alexander Wilson that is not just a standard biography but a scholarly appreciation of the man from multiple perspectives. *Alexander Wilson: The Scot Who Founded American Ornithology* certainly contains thorough and detailed information on Wilson's life in the section titled "A Varied Life" (pp. 13–62). But there are also essays on "Themes in Wilson's Life and Writing" (pp. 1–12), a thorough examination of Wilson as a "Pioneer Ornithologist" (pp. 281–330), a fine look at "Wilson's Legacy" (p. 331), and an annotated listing of Wilson's predecessors, contemporaries, and correspondents (pp. 355–411).

Wilson was born in Scotland, where he worked as a peddler and wrote poetry, sometimes in the Scotlish dialect much like that of his muse Robert Burns. Because of his time in Scotland among the hard working "commoners," Wilson was committed to the rights of the individual and became interested in Thomas Jefferson's ideals of liberty. His passion for Jefferson's ideas even led him to write a poem about Jefferson and liberty. Visual artist, poet, ornithologist, and natural historian, Wilson was a true man of the Enlightenment.

It was fortunate that when he immigrated to America, he landed in Philadelphia, at the time the intellectual center of the country. Through a fortuitous series of events, he befriended the great naturalist William Bartram (1739–1823). Bartram became Wilson's mentor, introduced him to the wonders of American natural history, and lent him books from his extensive library. Bartram also lent Wilson prints to copy to help him improve his artwork because Wilson had had no formal art training. But he was driven to excel at everything he tried and so worked hard to perfect his drawing skills.

At the time that Wilson decided to embark on the Sisyphean task of writing and illustrating a complete ornithology of America, European natural historians looked down their collective snooty noses at wildlife



in "the colonies." Because of the writings of intellectuals like Georges-Louis Leclerc Comte de Buffon and others, there was a general disregard for the entire natural world of America. The birds, beasts, and natives of America were seen as the products of a debased creation. America was a land of evil miasmas, poisonous reptiles, and inferior birds that sang inferior songs. Nothing that lived there was worthy of the attention of a serious European naturalist except to augment the collections in his curiosity cabinet. Wilson, who knew this attitude was rubbish, wanted to set the record straight.

The story of Wilson traveling around early America by train, by boat, and on foot, learning the birds, discovering new species, and meeting the people who would later become his correspondents is one of the great tales of the history of science in America. Besides relying on the ornithological experts of the time, Wilson also depended on the observations of people like hunters and farmers, people who worked the land and knew its inhabitants intimately. They sent Wilson their notes on bird behavior, and he used them in his text. Wilson's *American Ornithology* became a book that truly reflects the country and its people at that time.

What will be a revelation to many readers of *Alexander Wilson: The Scot Who Founded American Ornithology* is the section titled "Illustrating *American Ornithology*" (pp. 63–280). This long chapter forms the heart of the book. Many birders who have seen the plates of Wilson's illustrations quickly dismiss them as simplistic, awkward, and generally lacking the pizzazz of Audubon's monumental artwork. Furthermore, because Wilson typically puts several species on a single page, the plates can look crowded. Granted Audubon's large plates are impressive, but they can also be overly dramatic. Wilson was interested in creating a series of books that the everyday person would find useful in identifying and learning about the birds he saw. Although not quite a field guide, *American Ornithology* was certainly meant as a publication for a more general audience than Audubon's double-elephant-sized folio

prints, destined for the drawing rooms of the well to do. *American Ornithology* was a book for and, in a sense, by the people of America.

In the chapter about illustrating American Ornithology, Burtt and Davis include reproductions of Wilson's original artwork. These were the paintings and drawings that were turned into printing plates by Alexander Lawson and hand colored by a variety of artisans. Though many of you have seen at least some of the finished plates from American Ornithology, the original artwork will likely inspire a further evaluation of Wilson's artistic skills. A number of Wilson's drawings and working sketches have copious notes written in the margins about the color and other aspects of the living bird. When Wilson finally got the artwork the way he liked, he would cut and paste drawings together to create a plate for the book. Wilson's passion for accurate detail can be seen in the meticulousness of his drawings, like that of a Great Egret's foot (p. 211). Although some of his page compositions are perhaps a bit awkward, others like his Common Nighthawk rival Audubon's best work (p. 150). By showing us Wilson's working sketches and watercolors, this section in Alexander Wilson: The Scot Who Founded American Ornithology gives the reader a feel for how Wilson worked as an artist and how closely he studied his subjects. Included with the illustrations are Wilson's writings about the birds pictured and Burtt and Davis' comments and criticisms of each piece. This chapter alone is worth the price of the book.

As Burtt and Davis make abundantly clear, though Wilson's *American Ornithology* was a landmark publication in the history of American natural sciences, Wilson shaped the course of future ornithological field work by using a more scientific approach to observation. Alexander Wilson was passionate about the study of live birds and often emphasized the importance of what he called a "personal intimacy" with birds. As Burtt and Davis note, Wilson's writings about a bird's behavior and habits foreshadow the writings of later ornithologists like Arthur Cleveland Bent. Wilson undertook the first breeding bird census and was also the first author in America to write about the economic importance of birds. Wilson also resolved some confusing taxonomic issues, like discovering that the breeding and winter plumages of the Bobolink belonged to one species, not two as previous authors had described. He was also one of the first ornithologists concerned about species and habitat preservation. Along the way, Wilson was the first to describe 26 species. It is no exaggeration to call Alexander Wilson America's first true ornithologist.

For readers unfamiliar with Wilson's life and accomplishments, *Alexander Wilson: The Scot Who Founded American Ornithology* will be a real eye-opener. The book is beautifully printed and thoroughly researched. The final volume of *American Ornithology* was published posthumously under the direction of George Ord in January of 1814, making this year the bicentennial of the completion of Wilson's great work. Conferences are planned and papers will be presented to mark the event. A great way to kick off the Wilsonapalooza (my term) would be to read this book by Burtt and Davis.

It is a wonderful celebration of Alexander Wilson and his important role in the scientific history of America.

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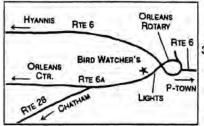
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BIRD SIGHTINGS

September/October 2013

Seth Kellogg, Marjorie W. Rines, and Robert H. Stymeist

The first two weeks of September were hot with a high reading of 97° on September 11. The low in Boston was 44° on September 17. September was a dry month with only 2.21 inches of rain recorded. October was much the same with an average temperature of 56.7° in Boston. The high was 82° on October 2, the low 35° on October 29. Some suburbs experienced a killing frost by October 22 and most areas other than Boston by October 29. Rainfall in October was just a little over a half inch, 3.33 inches below average for October.

R.H. Stymeist

WATERFOWL THROUGH ALCIDS

On a gloomy September 17, Blair Nikula was seawatching in Provincetown when he spotted an immature **Brown Booby** foraging off Race Point. On October 12, he was back at Race Point when he once again saw an immature Brown Booby, then saw it again on October 13. Given the rarity of this species, it must have been the same individual, but unseen for a month.

Three **American White Pelicans** were spotted flying southeast over Dedham on October 28. The following day, three White Pelicans were seen about 100 miles southeast of Dedham at Lighthouse Point in Connecticut. It seems likely these were the same individuals.

Joey Mason, a master bander specializing in raptors, trapped and banded a **Swainson's Hawk** at her banding site at the Carver landfill on September 4. It is the first report of this species since the fall of 2007 when a bird spent nearly three weeks at the Cumberland Farms fields in Middleboro.

September 15 was a day hawkwatchers dream of as Broad-winged Hawks moved in record numbers. At Mount Wachusett, Paul Roberts reported 14,471 birds, the largest flight since September 13, 1989, when 15,916 birds were tallied. Other memorable flights on September 15 included 11,445 hawks at Barre Falls, 4,230 in Southwick, and 2,797 at Mount Watatic.

A **Purple Gallinule** was discovered in Peabody on September 16, and remained through the 22^{nd} for many to enjoy. Two of the three **Sandhill Cranes** that spent the summer in Worthington lingered through the end of September.

American Golden-Plovers were unusually well reported this season, with double-digits in two locations. An **American Avocet** was discovered on Plum Island on November 29 and continued through the end of the month for many to enjoy.

A **Sabine's Gull** was initially discovered on North Beach in Chatham, then rediscovered a few days later at Tern Island, also in Chatham. This species is uncommon offshore and rare from shore. Little Gulls were unusually well reported during this period. A **South Polar Skua** was photographed five miles south of Nomans Land Island (south of Martha's Vineyard). The sighting of two Black Guillemots on September 2 on Plum Island was unusually early.

M. Rines

| Greater Whi | ite-fronted Goos | e | | 10/28 | Lynn | 55 | R. Heil |
|-----------------------|------------------------------|-----------|---------------------------------|------------------------|----------------------------|----------|-------------------------|
| 10/16 | Lenox | 1 | G. Hurley | 10/31 | P.I. | 150 | T. Wetmore |
| 10/20 10/26 | Concord Lexington | 1 1 | W. Martens# J. Forbes + v.o. | Canvasback 10/25 | Cambr. (F.P.) | 1 | R. Stymeist |
| Snow Goose | Lexington | 1 | J. 1 010C3 + v.0. | Ring-necked | | 1 | K. Styllicist |
| 10/6 | Cumb. Farms | 8 | SSBC | thr | Cambr. (F.P.) | 190 m | |
| 10/24 | Concord | 1 | D. Swain | 10/7 | Turners Falls | 32 | J. Smith |
| Brant | D 1 D | 150 | n n | 10/21 | Southboro | 100 | G. Gove# |
| 10/14 10/19 | Duxbury B. Revere B. | 150 82 | R. Bowes K. Hartel | 10/26 10/30 | Pittsf. (Mud Pd Holyoke | 106 | S. Kellogg S. Motyl |
| 10/13 | Pittsfield | 65 | G. Hurley | 10/30 | Waltham | 55 | J. Forbes |
| 10/24 | P.I. | 260 | T. Wetmore | Greater Scau | | | |
| 10/29 | S. Quabbin | 12 | L. Therrien | 10/21 | Wachusett Res. | | M. Lynch# |
| Cackling Goo | | | T.D. 1 | 10/26 | Nahant | 35 | L. Pivacek |
| 10/11-31 10/18, 24 | Lexington Turners Falls | 1 1 | J. Forbes + v.o. Z. Jakub | 10/28 10/29 | Acoaxet Falmouth | 76 99 | M. Lynch# E. Hoopes |
| 10/13, 24 | GMNWR | 1 | D. Sibley | 10/30 | Waltham | 6 | J. Forbes |
| 10/25-30 | Amherst | 1 | I. Davies | Lesser Scaup | | O | 3.101005 |
| 10/30 | Littleton | 3 | G. Billingham | 9/29 | S. Monomoy | 7 | B. Nikula |
| Wood Duck | _ | | | 10/15 | Longmeadow | 1 | C. Suprenant |
| 9/18 | Paxton | 70 | R. Jenkins | 10/16 | Waltham | 2 2 | J. Forbes |
| 9/26 10/2 | Northfield October Mt. | 170 53 | Z. Jakub E. Neumuth | 10/20 10/28 | Wachusett Res. Lynn | 6 | K. Bourinot# R. Heil |
| 10/2 | Longmeadow | 86 | M. Moore | Common Eig | | U | K. Hen |
| 10/7 | S. Quabbin | 56 | M. Lynch# | 10/5 | Eastham (F.E.) | 750 | SSBC (GdE) |
| 10/16 | Waltham | 60 | J. Forbes | 10/19 | Falmouth | 191 | M. Lynch# |
| Gadwall | DI | 22 | D 11 11 | Harlequin Di | | | T C |
| 9/24 9/29 | P.I. S. Monomoy | 33 120 | R. Heil B. Nikula | 10/19 10/19 | Nantucket Sandwich | 1 1 | J. Scott M. Lynch# |
| 10/6 | Fairhaven | 14 | C. Longworth# | Surf Scoter | Sandwich | 1 | IVI. Lylicii# |
| 10/20 | S. Quabbin | 7 | L. Therrien | 10/6 | Rockport (A.P.) | 1860 | R. Heil |
| 10/29 | Waltham | 3 | J. Forbes# | 10/12 | Dennis ` | 3400 | P. Flood |
| 10/31 | Yarmouth | 38 | E. Hoopes | 10/19 | S. Quabbin | 7 | L. Therrien |
| Eurasian Wig | | 1 | D. Chialanina | 10/20 | Wachusett Res. | | K. Bourinot# |
| 10/17 10/27 | P.I. Nantucket | 1 | D. Chickering K. Blackshaw# | 10/20 White-winge | Nantucket Sd 1 | 10000 | S. Perkins |
| 10/28 | Acoaxet | 2 | M. Lynch# | 10/6 | Rockport (A.P.) | 685 | R. Heil |
| American Wi | | | | 10/12 | Revere B. | 425 | R. Stymeist |
| 9/8 | Northampton | 1 | L. Therrien | 10/12 | Dennis | 900 | P. Flood |
| 9/29 | S. Monomoy | 15 | B. Nikula | 10/5-28 | | ind. fro | om 16 inland loc. |
| 10/17 10/19 | P.I. Barnstable | 80 51 | T. Wetmore M. Lynch# | Black Scoter 10/6 | Rockport (A.P.) | 100 | R. Heil |
| 10/15 | Arlington Res. | 25 | C. Floyd | 10/7 | Winchester | 20 | R. LaFontaine# |
| 10/27 | Nantucket | 40 | K. Blackshaw# | 10/12 | Dennis | 2100 | P. Flood |
| American Bla | | | | 10/15 | October Mt. | 30 | E. Neumuth |
| 10/22 | P.I. | 400 | T. Wetmore | 10/20 | Nantucket Sd 2 | | S. Perkins |
| 10/27 | S. Quabbin | 118 | L. Therrien | 10/21 | Wachusett Res. | 47 18 | A. Marble |
| 10/28 Blue-winged | Westport Teal | 133 | M. Lynch# | 10/21 Long-tailed I | S. Quabbin | 10 | L. Therrien |
| 9/3 | P.I. | 1 | R. Heil | 10/19 | S. Quabbin | 3 | L. Therrien |
| 9/11 | Longmeadow | 14 | A. & L. Richardson | 10/20 | Wachusett Res. | | K. Bourinot# |
| 9/29 | S. Monomoy | 45 | B. Nikula | 10/28 | Pittsfield (Onot | a) 6 | G. Hurley |
| 10/4 | Pittsfield | 23 4 | K. Hanson | Bufflehead | GMNWR | 1 | I T.: |
| 10/19 Northern Sho | Barnstable | 4 | M. Lynch# | 9/2 10/26 | Wachusett Res. | 1 21 | J. Trimble M. Lynch# |
| 9/29 | S. Monomoy | 10 | B. Nikula | 10/26 | Nahant | 36 | L. Pivacek |
| 10/6 | Pittsfield (Onot | | I. Davies | 10/27 | P.I. | 20 | J. Berry# |
| 10/21 | Turners Falls | 1 | J. Smith | 10/29 | Pittsfield (Pont. | | J. Pierce |
| 10/22 | P.I. | 40 | J. Forbes | 10/30 | Waltham | 19 | J. Forbes |
| 10/27 10/29 | Quabog IBA Arlington Res. | 4 | M. Lynch# M. Rines | Common Go 10/29 | Wachusett Res. | 1 | M. Lynch# |
| Northern Pint | | + | WI. KIHES | 10/30 | Lincoln | 3 | J. Forbes |
| 9/29 | S. Monomoy | 15 | B. Nikula | Hooded Mer | | | 0.101005 |
| 10/12 | Gloucester | 14 | R. Heil | 9/2 | Wachusett Res. | | M. Lynch# |
| 10/19 | S. Quabbin | 3 | L. Therrien | 10/29 | Lincoln | 31 | P. + F. Vale |
| 10/28 | Acoaxet | 62 370 | M. Lynch# T. Wetmore | 10/30 | P.I. | 12 21 | MAS (B. Gette) |
| 10/29 Green-winge | P.I. d Teal | 370 | i. weumore | 10/31 Common Me | Worcester | 21 | M. Lynch# |
| 9/26 | Northfield | 39 | Z. Jakub | 9/7 | Longmeadow | 9 | M. Moore |
| 9/29 | S. Monomoy | 40 | B. Nikula | 10/14 | S. Quabbin | 37 | L. Therrien |
| 10/8 | Ipswich | 35 | J. Berry | 10/15 | Wachusett Res. | | M. Lynch# |
| 10/17 | Longmeadow | 38 | M. Moore | 10/18 | Lincoln | 4 | J. Forbes |

| Red-breasted | Merganser | | | Double-crest | ted Cormorant | | |
|---------------------------|------------------------------------|----------|---------------------------------|-----------------------|--------------------------------|--------------|---------------------------|
| 10/12 | S. Quabbin | 2 | L. Therrien | 9/18 | P'town H. | 825 | B. Nikula |
| 10/18 | Rockport | 6 | J. Berry# | 10/5 | Eastham (F.H.) | | SSBC (GdE) |
| 10/26 | P.I. | 10 | MAS (D. Weaver) | 10/12 10/12 | | 2800 1600 | J. Berry# |
| Ruddy Duck 10/5, 20 | W. Newbury 14 | 270 | P. + F. Vale | 10/12 | | 5,600 | G. d'Entremont R. Heil |
| 10/3, 20 | Southboro | 150 | G. Gove# | Great Cormo | | 3,000 | K. Hen |
| 10/23 | Waltham | 130 | J. Forbes | 9/11 | Acoaxet | 1 | G. Gove# |
| 10/26 | Pittsf. (Mud Pd) | | S. Kellogg | 9/14 | Cuttyhunk | 2 | I. Davies# |
| 10/29 | Cambr. (F.P.) | 70 | B. Miller | 9/23 | Westport | 12 | P. Champlin |
| 10/30 Northern Bob | Nantucket | 35 | V. Laux | 10/28 | Acoaxet Vhite Pelican | 15 | M. Lynch# |
| 9/20 | Wellfleet | 1 | M. Keleher | 10/28 | Dedham | 3 | A. O'Neill# |
| 9/29 | Truro | 17 | M. Faherty | American Bi | | , | 71. O IVEIII |
| 10/3 | Mashpee | 15 | A. Curtis | 9/9 | Westport | 2 | P. Champlin |
| Ruffed Grous | | | | 10/30 | Nantucket | 2 | V. Laux |
| 9/17 | Westboro | 1 | N. Paulson | Great Blue H | | 20 | E 0 " |
| 9/19 10/29 | Ware R. IBA October Mt. | 1 2 | M. Lynch# E. Neumuth | 9/13 10/5 | Eastham (F.H.) Orleans | 29 60 | E. Orcutt SSBC (GdE) |
| Red-throated | | 2 | E. Neumum | 10/5 | E. of Chatham | | migr B. Nikula# |
| 10/6 | Rockport (A.P.) | 3 | R. Heil | Great Egret | E. or Chaman | | inigi D. i vikulu |
| 10/21 | Westport | 12 | P. Champlin | 9/4 | Westport | 55 | P. Champlin |
| 10/30 | P.I. | 35 | MAS (B. Gette) | 9/10 | P.I. | 314 | S. Grinley |
| Common Loc | | 22 | D. II. 1 | 9/29 | S. Dartmouth | 61 | A. + D. Morgan |
| 10/6 10/12 | Rockport (A.P.) Dennis | 32 55 | R. Heil P. Flood | 10/5 10/12 | Orleans Gloucester | 80 62 | P. Trimble R. Heil |
| 10/12 | Wachusett Res. | 23 | M. Lynch# | Snowy Egret | | 02 | к. пен |
| 10/27 | S. Quabbin | 8 | L. Therrien | 9/2 | GMNWR | 4 | J. Trimble |
| 10/30 | P.I. | 50 | MAS (B. Gette) | 9/10 | P.I. | 176 | S. Grinley |
| 10/30 | E. of Chatham | 32 | B. Nikula# | 9/13 | Eastham (F.H.) | 103 | E. Orcutt |
| Pied-billed G | | | 3.6 T 1.0 | 10/18 | Nantucket | 10 | J. Scott |
| 9/10 10/6 | Ware R. IBA Cheshire | 1 5 | M. Lynch# J. Pierce | Little Blue H 9/2 | leron GMNWR | 1 | A Drogg |
| 10/04 | Westboro | 5 | M. Lynch# | 10/2 | WBWS | 2 | A. Bragg J. Lawler |
| 10/27 | Nantucket | 6 | K. Blackshaw# | 10/3 | Ipswich | 2 | J. Berry |
| 10/31 | Cambr. (F.P.) | 6 | J. Miller | Tricolored H | | | |
| Horned Grebe | | | | 9/28 | Essex | 1 | W. Webb |
| 9/6 | Duxbury B. | 1 | N. Blake | Green Heron | | _ | D. Cr |
| 9/7 10/27 | P.I. S. Quabbin | 1 11 | BBC (S. Grinley) L. Therrien | 9/5 9/8 | Cambr. (F.P.) Sterling Peat | 5 8 | R. Stymeist M. Lynch# |
| 10/27 | Wachusett Res. | 16 | M. Lynch# | 10/16 | Lincoln | 2 | C. Gras |
| Red-necked C | | 10 | 111. Zy IIeliii | 10/29 | MNWS | 1 | D. Noble |
| 10/8 | Pittsfield (Onota | | T. Gagnon | Black-crown | ned Night-Heron | | |
| 10/15 | Wachusett Res. | 7 | M. Lynch# | 9/1 | Eastham | 50 | D. Clapp |
| 10/29 | S. Quabbin | 3 | L. Therrien | 9/9 | P.I. | 22 | D. Jackson |
| Northern Fuli 10/5, 19 | E. of Chatham | 1, 2 | B. Nikula# | 9/17 10/15 | Yarmouth Ipswich | 80 13 | E. Hoopes R. Heil |
| 10/9 | P'town | 1, 2 | B. Nikula | | ned Night-Heron | 13 | K. Hen |
| Cory's Sheary | | | | 9/9 | Eastham | 3 | E. Orcutt |
| 10/19 | E. of Chatham | 1 | B. Nikula# | 9/15 | Harwich | 1 | A. Curtis |
| Great Shearw | | | 75 3711 1 11 | 10/15 | Ipswich | 1 | R. Heil |
| 10/5, 30 | E. of Chatham7 P'town | , 125 | B. Nikula# | Glossy Ibis | CMNWD | 1 | A Drogg |
| 10/27 Sooty Shearw | | 13 | B. Nikula | 9/2 9/4 | GMNWR Westport | 1 29 | A. Bragg P. Champlin |
| 10/5, 30 | E. of Chatham 1 | 200, 20 | B. Nikula# | 9/18 | P.I. | 1 | D. Chickering |
| 10/24 | Eastham (F.E.) | ĺ | B. Nikula | Black Vultur | | | 8 |
| 10/27 | P'town | 1 | B. Nikula | 9/4 | Northampton | 3 | T. Gagnon |
| Manx Shearw | | | T D 11 | 9/17 | Mt. Tom | 3 | T. Gagnon |
| 9/4 10/5, 15 | Stellwagen | 1 | T. Robben B. Nikula# | 10/14 | Palmer Southwick | 2 | I. Davies |
| | E. of Chatham 2 E. of Chatham 2 | | | 10/17 Turkey Vultu | | 2 | S. Kellogg |
| Wilson's Stor | | 210, 500 | B. Madan | 10/9 | Southbridge | 26 | M. Lynch# |
| 9/17 | Duxbury B. | 1 | R. Bowes | 10/9 | Barre Falls | 24 | Hawkcount (BK) |
| Leach's Storn | | | | 10/15 | Mt. Wachusett | 62 | Hawkcount (PR) |
| 9/17 | Orleans | 1 | M. Faherty | 10/17 | P.I. | 10 | J. McCoy |
| Brown Boob | y P'town | 1 in | am D Nikula | 10/23 | Granville | 68 | J. Weeks |
| 9/17 10/12-13 | P'town | 1 in | | Osprey 9/3-30 | Mt. Wachusett | 153 | Hawkcount (SO) |
| Northern Gan | | 1 111 | D. 1 11Kulu | 9/5-30 | Barre Falls | 102 | Hawkcount (BK) |
| 9/4, 10/23 | | 1700 | B. Nikula | 9/14 | Cuttyhunk | 58 | I. Davies# |
| 10/6 | Rockport (A.P.) | | R. Heil | 10/13 | Wayland | 6 | B. Black# |
| 10/27 | P.I. | 167 | E. Nielsen | 10/28 | Lynn | 1 | R. Heil |
| | | | | | | | |

| | | | | 9/28 | Cuttyhunk | 2 | I. Davies# |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bald Eagle 9/4-28 | Mt. Wachusett | 87 | Hawkcount (SO) | 10/5 | WBWS | 2 | SSBC (GdE) |
| 9/5-28 | Barre Falls | 40 | Hawkcount (BK) | 10/18 | Wellfleet | 5 | S. Broker |
| 9/7-15 | Mt. Watatic | 17 | Hawkcount (TP) | Sora | | | |
| 9/15 | Southwick | 11 | S. Kellogg | 9/7 | GMNWR | 2 | J. Forbes |
| 9/15 9/15 | Barre Falls Mt. Wachusett | 13 15 | B. Kamp Hawkcount (SO) | 9/20 9/29 | Northampton Lenox | 2 2 | D. McLain P. Crossen |
| 9/18 | Granville | 10 | J. Weeks | 10/6 | Cumb. Farms | 2 | SSBC |
| Northern Har | | | v. weeks | 10/6 | Fairhaven | $\bar{2}$ | C. Longworth# |
| 9/15 | Mt. Wachusett | | Hawkcount (SO) | 10/14 | Truro | 2 | G. d'Entremont# |
| 9/28 | Cuttyhunk | 3 | I. Davies# | Purple Gal | | | B B |
| 9/29 | S. Monomoy | 3 3 | B. Nikula | 9/16-22 Common G | | 1 imm | P. Ruvido + v.o. |
| 10/2 10/6 | Duxbury B. Cumb. Farms | 5 5 | R. Bowes SSBC | 9/16 | GMNWR | 1 | A. Bragg# |
| 10/17 | P.I. | 8 | T. Wetmore | 10/2 | Lenox | 2 | G. Hurley |
| Sharp-shinned | | | | American C | | | |
| 9/3-30 | Mt. Wachusett | | Hawkcount (SO) | 9/29 | S. Monomoy | 9 | B. Nikula |
| 9/4-30 | Barre Falls | 255 | Hawkcount (BK) | 10/27 | Nantucket | 25 | K. Blackshaw# |
| 9/13 9/14 | Mt. Wachusett | 29 46 | Hawkcount (SO) | 10/28 | Acoaxet | 137 25 | M. Lynch# |
| 10/3-29 | Barre Falls Barre Falls | 46 176 | Hawkcount (BK) Hawkcount (BK) | 10/29 10/30 | Richmond Waltham | 44 | J. Pierce J. Forbes |
| 10/8 | Barre Falls | 50 | Hawkcount (BK) | Sandhill Cı | | | J. 1 010CS |
| Cooper's Hav | | 20 | manusum (BH) | 9/thr | Worthington | 2 | E. Lewis |
| 9/5-30 | Barre Falls | 62 | Hawkcount (BK) | 10/13 | Wareham | 1 | G. d'Entremont |
| 9/8-30 | Mt. Wachusett | | Hawkcount (SO) | Black-bellie | | | |
| 9/26 | Barre Falls | 10 | B. Kamp | thr | P.I. | 176 | |
| 10/3-29 10/8 | Barre Falls Barre Falls | 27 12 | Hawkcount (BK) B. Kamp | 9/14 10/14 | Chatham (S.B.) P'town | 210 | E. Orcutt# G. d'Entremont# |
| Northern Gos | | 12 | D. Kamp | 10/14 | Duxbury B. | 96 | R. Bowes |
| | Mt. Wachusett | 4 | S. Olson | 10/18 | Ipswich | 180 | J. Berry# |
| 9/13 | Granville | 1 | S. Kellogg | American G | Golden-Plover | | · |
| 9/16 | Mt. Tom | 2 | T. Gagnon | 9/1 | Wollaston B. | 9 | T. O'Neill# |
| 10/5-19 | Barre Falls | 4 | Hawkcount (BK) | 9/2 | GMNWR | 9 | J. Trimble |
| 10/15 10/20 | Southwick Russell | 1 1 | S. Kellogg T. Swochak | 9/6 9/11 | Hadley Nantucket | 8 10 | L. Therrien V. Laux |
| Red-shoulder | | 1 | 1. Swochak | 9/11 | Northampton | 18 | D. McLain |
| 9/8-28 | Barre Falls | 4 | Hawkcount (BK) | 9/20 | P.I. | 7 | S. Grinley# |
| 9/15 | Quabog IBA | 3 | M. Lynch# | 10/13 | Newbury | 7 | F. Vale |
| 9/29 | Cumb. Farms | 3 | G. d'Entremont# | Semipalmat | | | |
| 10/8-29 | Barre Falls | 12 | Hawkcount (BK) | thr | P.I. | 880 | |
| 10/9 10/29 | Sturbridge Barre Falls | 4 6 | M. Lynch# Hawkcount (BK) | 9/1 9/4 | Revere B. Orleans | 224 3000 | S. Zendeh C. Goodrich |
| Broad-winged | | U | Hawkcoull (DK) | 9/7 | Chatham (S.B.) | | B. Nikula |
| 9/thr | | 35,049 | Hawkcount (SO) | | | | |
| 9/thr | D E 11 | | | 9/29 | Duxbury D. | 124 | R. Bowes |
| 9/15 | | 16,106 | Hawkcount (BK) | Piping Plove | Duxbury B. er | 124 | R. Bowes |
| | Barre Falls | 16,106 11,445 | Hawkcount (BK) Hawkcount (BK) | Piping Plove 9/1 | er P.I. | 124 13 | D. Larson |
| 9/15 | Barre Falls Wachusett | 16,106 11,445 14,471 | Hawkcount (BK) Hawkcount (SO) | 9/1 9/14 | P.I. Chatham (S.B.) | 124 13 6 | D. Larson E. Orcutt# |
| 9/15 9/15 | Barre Falls Wachusett Southwick | 16,106 11,445 14,471 4230 | Hawkcount (BK) Hawkcount (SO) S. Kellogg | Piping Plove 9/1 9/14 10/1 | P.I. Chatham (S.B.) Westport | 124 13 6 1 | D. Larson E. Orcutt# P. Champlin |
| 9/15 9/15 9/15 | Barre Falls Wachusett Southwick Watatic | 16,106 11,445 14,471 4230 2797 | Hawkcount (BK) Hawkcount (BK) Hawkcount (SO) S. Kellogg Hawkcount (TP) | Piping Plove 9/1 9/14 10/1 10/20 | P.I. Chatham (S.B.) | 124 13 6 | D. Larson E. Orcutt# |
| 9/15 9/15 | Barre Falls Wachusett Southwick | 16,106 11,445 14,471 4230 | Hawkcount (BK) Hawkcount (SO) S. Kellogg | Piping Plove 9/1 9/14 10/1 | P.I. Chatham (S.B.) Westport | 124 13 6 1 | D. Larson E. Orcutt# P. Champlin |
| 9/15 9/15 9/15 9/16 | Barre Falls Wachusett Southwick Watatic Mt. Tom Wachusett | 16,106 11,445 14,471 4230 2797 2244 2972 12,272 | Hawkcount (BK) Hawkcount (BK) Hawkcount (SO) S. Kellogg Hawkcount (TP) T. Gagnon | Piping Plove 9/1 9/14 10/1 10/20 Killdeer 9/1 9/7 | P.I. Chatham (S.B.) Westport Edgartown | 124 13 6 1 1 1 125 65 | D. Larson E. Orcutt# P. Champlin L. Johnson |
| 9/15 9/15 9/15 9/16 9/17 9/18 9/19 | Barre Falls Wachusett Southwick Watatic Mt. Tom Wachusett Wachusett Granville | 16,106 11,445 14,471 4230 2797 2244 2972 | Hawkcount (BK) Hawkcount (SO) S. Kellogg Hawkcount (TP) T. Gagnon Hawkcount (SO) | Piping Plove 9/1 9/14 10/1 10/20 Killdeer 9/1 9/7 9/11 | P.I. Chatham (S.B.) Westport Edgartown Cumb. Farms Hadley S. Dartmouth | 124 13 6 1 1 1 125 65 61 | D. Larson E. Orcutt# P. Champlin L. Johnson S. Arena# S. Surner G. Gove# |
| 9/15 9/15 9/15 9/16 9/17 9/18 9/19 Swainson's F | Barre Falls Wachusett Southwick Watatic Mt. Tom Wachusett Wachusett Granville Hawk | 16,106 11,445 14,471 4230 2797 2244 2972 12,272 2305 | Hawkcount (BK) Hawkcount (BK) Hawkcount (SO) S. Kellogg Hawkcount (TP) T. Gagnon Hawkcount (SO) Hawkcount (SO) J. Weeks | Piping Plove 9/1 9/14 10/1 10/20 Killdeer 9/1 9/7 9/11 10/12 | P.I. Chatham (S.B.) Westport Edgartown Cumb. Farms Hadley S. Dartmouth Newbury | 124 13 6 1 1 125 65 61 44 | D. Larson E. Orcutt# P. Champlin L. Johnson S. Arena# S. Surner G. Gove# J. Berry# |
| 9/15 9/15 9/15 9/16 9/17 9/18 9/19 Swainson's F | Barre Falls Wachusett Southwick Watatic Mt. Tom Wachusett Wachusett Granville Hawk Carver | 16,106 11,445 14,471 4230 2797 2244 2972 12,272 | Hawkcount (BK) Hawkcount (SO) S. Kellogg Hawkcount (TP) T. Gagnon Hawkcount (SO) Hawkcount (SO) | Piping Plove 9/1 9/14 10/1 10/20 Killdeer 9/1 9/7 9/11 10/12 10/27 | P.I. Chatham (S.B.) Westport Edgartown Cumb. Farms Hadley S. Dartmouth Newbury Nantucket | 124 13 6 1 1 1 125 65 61 | D. Larson E. Orcutt# P. Champlin L. Johnson S. Arena# S. Surner G. Gove# |
| 9/15 9/15 9/15 9/16 9/17 9/18 9/19 Swainson's F 9/4 Rough-legged | Barre Falls Wachusett Southwick Watatic Mt. Tom Wachusett Wachusett Granville Hawk Carver Hawk | 16,106 11,445 14,471 4230 2797 2244 2972 12,272 2305 1 b | Hawkcount (BK) Hawkcount (BK) Hawkcount (SO) S. Kellogg Hawkcount (TP) T. Gagnon Hawkcount (SO) Hawkcount (SO) J. Weeks J. Mason | Piping Plove 9/1 9/14 10/1 10/20 Killdeer 9/1 9/7 9/11 10/12 10/27 American O | P.I. Chatham (S.B.) Westport Edgartown Cumb. Farms Hadley S. Dartmouth Newbury Nantucket | 124 13 6 1 1 125 65 61 44 10 | D. Larson E. Orcutt# P. Champlin L. Johnson S. Arena# S. Surner G. Gove# J. Berry# K. Blackshaw# |
| 9/15 9/15 9/15 9/16 9/17 9/18 9/19 Swainson's F | Barre Falls Wachusett Southwick Watatic Mt. Tom Wachusett Wachusett Granville Hawk Carver | 16,106 11,445 14,471 4230 2797 2244 2972 12,272 2305 | Hawkcount (BK) Hawkcount (BK) Hawkcount (SO) S. Kellogg Hawkcount (TP) T. Gagnon Hawkcount (SO) Hawkcount (SO) J. Weeks J. Mason S. Zendeh# | Piping Plove 9/1 9/14 10/1 10/20 Killdeer 9/1 9/7 9/11 10/12 10/27 | P.I. Chatham (S.B.) Westport Edgartown Cumb. Farms Hadley S. Dartmouth Newbury Nantucket | 124 13 6 1 1 125 65 61 44 10 | D. Larson E. Orcutt# P. Champlin L. Johnson S. Arena# S. Surner G. Gove# J. Berry# |
| 9/15 9/15 9/15 9/16 9/17 9/18 9/19 Swainson's F 9/4 Rough-legged 10/20 10/20 10/24-31 | Barre Falls Wachusett Southwick Watatic Mt. Tom Wachusett Wachusett Granville Hawk Carver Hawk Saugus Nantucket P.I. | 16,106 11,445 14,471 4230 2797 2244 2972 12,272 2305 1 b | Hawkcount (BK) Hawkcount (BK) Hawkcount (BK) Hawkcount (SO) S. Kellogg Hawkcount (TP) T. Gagnon Hawkcount (SO) J. Weeks J. Mason S. Zendeh# V. Laux# v.o. | Piping Plow 9/1 9/14 10/1 10/20 Killdeer 9/1 9/7 9/11 10/12 10/27 American O 9/1 9/21 10/12 | P.I. Chatham (S.B.) Westport Edgartown Cumb. Farms Hadley S. Dartmouth Newbury Nantucket Dystercatcher Revere B. Chatham (S.B.) Edgartown | 124 13 6 1 1 125 65 61 44 10 13 30 4 | D. Larson E. Orcutt# P. Champlin L. Johnson S. Arena# S. Surner G. Gove# J. Berry# K. Blackshaw# S. Zendeh B. Nikula P. Gilmore# |
| 9/15 9/15 9/15 9/16 9/17 9/18 9/19 Swainson's F 9/4 Rough-legged 10/20 10/20 10/24-31 10/25 | Barre Falls Wachusett Southwick Watatic Mt. Tom Wachusett Wachusett Granville Hawk Carver 1 Hawk Saugus Nantucket P.I. Acton | 16,106 11,445 14,471 4230 2797 2244 2972 12,272 2305 1 b | Hawkcount (BK) Hawkcount (BK) Hawkcount (SO) S. Kellogg Hawkcount (TP) T. Gagnon Hawkcount (SO) Hawkcount (SO) J. Weeks J. Mason S. Zendeh# V. Laux# | Piping Plow 9/1 9/14 10/1 10/20 Killdeer 9/1 9/7 9/11 10/12 10/27 American O 9/1 9/21 10/12 10/20 | P.I. Chatham (S.B.) Westport Edgartown Cumb. Farms Hadley S. Dartmouth Newbury Nantucket Dystercatcher Revere B. Chatham (S.B.) Edgartown Squantum | 124 13 6 1 1 125 65 61 44 10 13 30 | D. Larson E. Orcutt# P. Champlin L. Johnson S. Arena# S. Surner G. Gove# J. Berry# K. Blackshaw# S. Zendeh B. Nikula |
| 9/15 9/15 9/15 9/16 9/17 9/18 9/19 Swainson's F 9/4 Rough-legged 10/20 10/20 10/24-31 10/25 Golden Eagle | Barre Falls Wachusett Southwick Watatic Mt. Tom Wachusett Wachusett Granville Hawk Carver 1 Hawk Saugus Nantucket P.I. Acton | 16,106 11,445 14,471 4230 2797 2244 2242 2305 1 b 1 dd 1 lt | Hawkcount (BK) Hawkcount (BK) Hawkcount (SO) S. Kellogg Hawkcount (TP) T. Gagnon Hawkcount (SO) Hawkcount (SO) J. Weeks J. Mason S. Zendeh# V. Laux# V.O. R. Stymeist | Piping Plow 9/1 9/14 10/1 10/20 Killdeer 9/1 9/7 9/11 10/12 10/27 American O 9/1 9/21 10/12 10/20 American A | P.I. Chatham (S.B.) Westport Edgartown Cumb. Farms Hadley S. Dartmouth Newbury Nantucket Dystercatcher Revere B. Chatham (S.B.) Edgartown Squantum Avocet | 124 13 6 1 1 125 65 61 44 10 13 30 4 2 | D. Larson E. Orcutt# P. Champlin L. Johnson S. Arena# S. Surner G. Gove# J. Berry# K. Blackshaw# S. Zendeh B. Nikula P. Gilmore# V. Zollo |
| 9/15 9/15 9/15 9/16 9/17 9/18 9/19 Swainson's F 9/4 Rough-legged 10/20 10/20 10/24-31 10/25 Golden Eagle 9/27 | Barre Falls Wachusett Southwick Watatic Mt. Tom Wachusett Wachusett Wachusett Granville Hawk Carver 1 Hawk Saugus Nantucket P.I. Acton e Barre Falls | 16,106 11,445 14,471 4230 2797 2244 2972 12,272 2305 1 b 1 dt 1 lt 1 | Hawkcount (BK) Hawkcount (BK) Hawkcount (SO) S. Kellogg Hawkcount (TP) T. Gagnon Hawkcount (SO) J. Weeks J. Mason S. Zendeh# V. Laux# V.o. R. Stymeist Hawkcount (BK) | Piping Plow 9/1 9/14 10/1 10/20 Killdeer 9/1 9/7 9/11 10/12 10/27 American O 9/1 9/21 10/12 10/20 American A 10/29-31 | er P.I. Chatham (S.B.) Westport Edgartown Cumb. Farms Hadley S. Dartmouth Newbury Nantucket Dystercatcher Revere B. Chatham (S.B.) Edgartown Squantum Avocet P.I. | 124 13 6 1 1 125 65 61 44 10 13 30 4 | D. Larson E. Orcutt# P. Champlin L. Johnson S. Arena# S. Surner G. Gove# J. Berry# K. Blackshaw# S. Zendeh B. Nikula P. Gilmore# |
| 9/15 9/15 9/15 9/16 9/17 9/18 9/19 Swainson's F 9/4 Rough-legged 10/20 10/20 10/24-31 10/25 Golden Eagle 9/27 10/21 | Barre Falls Wachusett Southwick Watatic Mt. Tom Wachusett Wachusett Granville Hawk Carver 1 Hawk Saugus Nantucket P.I. Acton | 16,106 11,445 14,471 4230 2797 2244 2972 12,272 2305 1 b 1 dt 1 lt 1 | Hawkcount (BK) Hawkcount (BK) Hawkcount (SO) S. Kellogg Hawkcount (TP) T. Gagnon Hawkcount (SO) Hawkcount (SO) J. Weeks J. Mason S. Zendeh# V. Laux# V.O. R. Stymeist | Piping Plow 9/1 9/14 10/1 10/20 Killdeer 9/1 9/7 9/11 10/12 10/27 American O 9/1 9/21 10/12 10/20 American A | P.I. Chatham (S.B.) Westport Edgartown Cumb. Farms Hadley S. Dartmouth Newbury Nantucket Dystercatcher Revere B. Chatham (S.B.) Edgartown Squantum Avocet P.I. Idpiper | 124 13 6 1 1 125 65 61 44 10 13 30 4 2 | D. Larson E. Orcutt# P. Champlin L. Johnson S. Arena# S. Surner G. Gove# J. Berry# K. Blackshaw# S. Zendeh B. Nikula P. Gilmore# V. Zollo C. Sheridan + v.o. |
| 9/15 9/15 9/15 9/16 9/17 9/18 9/19 Swainson's H 9/4 Rough-legged 10/20 10/24-31 10/25 Golden Eagle 9/27 10/21 Clapper Rail | Barre Falls Wachusett Southwick Watatic Mt. Tom Wachusett Wachusett Wachusett Granville Hawk Carver 1 Hawk Saugus Nantucket P.I. Acton e Barre Falls | 16,106 11,445 14,471 4230 2797 2244 2972 12,272 2305 1 b 1 dt 1 lt 1 | Hawkcount (BK) Hawkcount (BK) Hawkcount (SO) S. Kellogg Hawkcount (TP) T. Gagnon Hawkcount (SO) J. Weeks J. Mason S. Zendeh# V. Laux# V.o. R. Stymeist Hawkcount (BK) | Piping Plow 9/1 9/14 10/1 10/20 Killdeer 9/1 9/7 9/11 10/12 10/27 American O 9/1 9/21 10/12 10/20 American A 10/29-31 Spotted San 9/5 9/24 | er P.I. Chatham (S.B.) Westport Edgartown Cumb. Farms Hadley S. Dartmouth Newbury Nantucket Dystercatcher Revere B. Chatham (S.B.) Edgartown Squantum Avocet P.I. | 124 13 6 1 1 125 65 61 44 10 13 30 4 2 | D. Larson E. Orcutt# P. Champlin L. Johnson S. Arena# S. Surner G. Gove# J. Berry# K. Blackshaw# S. Zendeh B. Nikula P. Gilmore# V. Zollo |
| 9/15 9/15 9/15 9/16 9/17 9/18 9/19 Swainson's F 9/4 Rough-legged 10/20 10/24-31 10/25 Golden Eagle 9/27 10/21 Clapper Rail 9/5 9/18 | Barre Falls Wachusett Southwick Watatic Mt. Tom Wachusett Wachusett Wachusett Hawk Carver d Hawk Saugus Nantucket P.I. Acton e Barre Falls Pittsfield (Ono Chatham Wellfleet 2 | 16,106 11,445 14,471 4230 2797 2244 2972 12,272 2305 1 b 1 d 1 lt 1 ota) 1 | Hawkcount (BK) Hawkcount (BK) Hawkcount (BK) Hawkcount (SO) S. Kellogg Hawkcount (TP) T. Gagnon Hawkcount (SO) J. Weeks J. Mason S. Zendeh# V. Laux# v.o. R. Stymeist Hawkcount (BK) I. Davies B. Nikula v. S. Broker | Piping Plow 9/1 9/14 10/1 10/20 Killdeer 9/1 9/7 9/11 10/12 10/27 American O 9/1 9/21 10/12 10/20 American A 10/29-31 Spotted San 9/5 9/24 10/2 | er P.I. Chatham (S.B.) Westport Edgartown Cumb. Farms Hadley S. Dartmouth Newbury Nantucket Dystercatcher Revere B. Chatham (S.B.) Edgartown Squantum Avocet P.I. ddpiper Ware R. IBA Reading Sheffield | 124 13 6 1 1 1 125 65 61 44 10 13 30 4 2 1 | D. Larson E. Orcutt# P. Champlin L. Johnson S. Arena# S. Surner G. Gove# J. Berry# K. Blackshaw# S. Zendeh B. Nikula P. Gilmore# V. Zollo C. Sheridan + v.o. M. Lynch# D. Williams G. Ward |
| 9/15 9/15 9/15 9/16 9/17 9/18 9/19 Swainson's F 9/4 Rough-legged 10/20 10/20 10/24-31 10/25 Golden Eagle 9/27 10/21 Clapper Rail 9/5 9/18 10/30 | Barre Falls Wachusett Southwick Watatic Mt. Tom Wachusett Wachusett Granville Hawk Carver I Hawk Saugus Nantucket P.I. Acton e Barre Falls Pittsfield (Ono Chatham | 16,106 11,445 14,471 4230 2797 2244 2972 12,272 2305 1 b 1 d 1 lt 1 ota) 1 | Hawkcount (BK) Hawkcount (BK) Hawkcount (SO) S. Kellogg Hawkcount (TP) T. Gagnon Hawkcount (SO) Hawkcount (SO) J. Weeks J. Mason S. Zendeh# V. Laux# V.o. R. Stymeist Hawkcount (BK) I. Davies B. Nikula | Piping Plow 9/1 9/14 10/1 10/20 Killdeer 9/1 9/7 9/11 10/12 10/27 American O 9/1 10/12 10/29 American A 10/29-31 Spotted San 9/5 9/24 10/2 10/18 | er P.I. Chatham (S.B.) Westport Edgartown Cumb. Farms Hadley S. Dartmouth Newbury Nantucket Dystercatcher Revere B. Chatham (S.B.) Edgartown Squantum Avocet P.I. Idpiper Ware R. IBA Reading Sheffield Sharon | 124 13 6 1 1 125 65 61 44 10 13 30 4 2 | D. Larson E. Orcutt# P. Champlin L. Johnson S. Arena# S. Surner G. Gove# J. Berry# K. Blackshaw# S. Zendeh B. Nikula P. Gilmore# V. Zollo C. Sheridan + v.o. M. Lynch# D. Williams |
| 9/15 9/15 9/15 9/16 9/17 9/18 9/19 Swainson's F 9/4 Rough-legged 10/20 10/20 10/24-31 10/25 Golden Eagle 9/27 10/21 Clapper Rail 9/5 9/18 10/30 King Rail | Barre Falls Wachusett Southwick Watatic Mt. Tom Wachusett Wachusett Granville Hawk Carver J Hawk Saugus Nantucket P.I. Acton Barre Falls Pittsfield (Ono Chatham Wellfleet 2 West Harwich | 16,106 11,445 14,471 4230 2797 2244 2972 2305 1 b 1 dl 1 lt 1 ota) 1 ad + 3 ju | Hawkcount (BK) Hawkcount (BK) Hawkcount (BK) Hawkcount (BK) Hawkcount (SO) S. Kellogg Hawkcount (TP) T. Gagnon Hawkcount (SO) Hawkcount (SO) J. Weeks J. Mason S. Zendeh# V. Laux# v.o. R. Stymeist Hawkcount (BK) I. Davies B. Nikula V. S. Broker B. Nikula | Piping Plow 9/1 9/14 10/1 10/20 Killdeer 9/1 9/7 9/11 10/12 10/27 American O 9/1 10/12 10/20 American A 10/29-31 Spotted San 9/5 9/24 10/2 10/18 Solitary San | er P.I. Chatham (S.B.) Westport Edgartown Cumb. Farms Hadley S. Dartmouth Newbury Nantucket Dystercatcher Revere B. Chatham (S.B.) Edgartown Squantum Avocet P.I. idpiper Ware R. IBA Reading Sheffield Sharon indpiper | 124 13 6 1 1 1 125 65 61 44 10 13 30 4 2 1 | D. Larson E. Orcutt# P. Champlin L. Johnson S. Arena# S. Surner G. Gove# J. Berry# K. Blackshaw# S. Zendeh B. Nikula P. Gilmore# V. Zollo C. Sheridan + v.o. M. Lynch# D. Williams G. Ward L. Waters |
| 9/15 9/15 9/16 9/17 9/18 9/19 Swainson's F 9/4 Rough-legged 10/20 10/24-31 10/25 Golden Eagle 9/27 10/21 Clapper Rail 9/5 9/18 10/30 King Rail 10/2 | Barre Falls Wachusett Southwick Watatic Mt. Tom Wachusett Wachusett Wachusett Hawk Carver d Hawk Saugus Nantucket P.I. Acton e Barre Falls Pittsfield (Ono Chatham Wellfleet 2 | 16,106 11,445 14,471 4230 2797 2244 2972 12,272 2305 1 b 1 d 1 lt 1 ota) 1 | Hawkcount (BK) Hawkcount (BK) Hawkcount (BK) Hawkcount (BK) Hawkcount (SO) S. Kellogg Hawkcount (TP) T. Gagnon Hawkcount (SO) Hawkcount (SO) J. Weeks J. Mason S. Zendeh# V. Laux# v.o. R. Stymeist Hawkcount (BK) I. Davies B. Nikula V. S. Broker B. Nikula | Piping Plow 9/1 9/14 10/1 10/20 Killdeer 9/1 9/7 9/11 10/12 10/27 American O 9/1 9/21 10/12 10/20 American A 10/29-31 Spotted San 9/5 9/24 10/18 Solitary San 9/3 | er P.I. Chatham (S.B.) Westport Edgartown Cumb. Farms Hadley S. Dartmouth Newbury Nantucket Dystercatcher Revere B. Chatham (S.B.) Edgartown Squantum Avocet P.I. Idpiper Ware R. IBA Reading Sheffield Sharon Indipiper Boston | 124 13 6 1 1 1 125 65 61 44 10 13 30 4 2 1 | D. Larson E. Orcutt# P. Champlin L. Johnson S. Arena# S. Surner G. Gove# J. Berry# K. Blackshaw# S. Zendeh B. Nikula P. Gilmore# V. Zollo C. Sheridan + v.o. M. Lynch# D. Williams G. Ward L. Waters P. Peterson |
| 9/15 9/15 9/15 9/16 9/17 9/18 9/19 Swainson's F 9/4 Rough-legged 10/20 10/20 10/24-31 10/25 Golden Eagle 9/27 10/21 Clapper Rail 9/5 9/18 10/30 King Rail | Barre Falls Wachusett Southwick Watatic Mt. Tom Wachusett Wachusett Granville Hawk Carver J Hawk Saugus Nantucket P.I. Acton Barre Falls Pittsfield (Ono Chatham Wellfleet 2 West Harwich | 16,106 11,445 14,471 4230 2797 2244 2972 2305 1 b 1 dl 1 lt 1 ota) 1 ad + 3 ju | Hawkcount (BK) Hawkcount (BK) Hawkcount (BK) Hawkcount (BK) Hawkcount (SO) S. Kellogg Hawkcount (TP) T. Gagnon Hawkcount (SO) Hawkcount (SO) J. Weeks J. Mason S. Zendeh# V. Laux# v.o. R. Stymeist Hawkcount (BK) I. Davies B. Nikula V. S. Broker B. Nikula | Piping Plow 9/1 9/14 10/1 10/20 Killdeer 9/1 9/7 9/11 10/12 10/27 American O 9/1 10/12 10/20 American A 10/29-31 Spotted San 9/5 9/24 10/2 10/18 Solitary San | er P.I. Chatham (S.B.) Westport Edgartown Cumb. Farms Hadley S. Dartmouth Newbury Nantucket Dystercatcher Revere B. Chatham (S.B.) Edgartown Squantum Avocet P.I. idpiper Ware R. IBA Reading Sheffield Sharon indpiper | 124 13 6 1 1 1 125 65 61 44 10 1 3 3 4 2 2 1 | D. Larson E. Orcutt# P. Champlin L. Johnson S. Arena# S. Surner G. Gove# J. Berry# K. Blackshaw# S. Zendeh B. Nikula P. Gilmore# V. Zollo C. Sheridan + v.o. M. Lynch# D. Williams G. Ward L. Waters |
| 9/15 9/15 9/16 9/17 9/18 9/19 Swainson's F 9/4 Rough-legged 10/20 10/24-31 10/25 Golden Eagle 9/27 10/21 Clapper Rail 9/5 9/18 10/30 King Rail 10/2 Virginia Rail | Barre Falls Wachusett Southwick Watatic Mt. Tom Wachusett Granville Hawk Carver Hawk Saugus Nantucket P.I. Acton Barre Falls Pittsfield (Ono Chatham Wellfleet West Harwich | 16,106 11,447 14,471 4230 2797 2244 2972 12,272 2305 1 b 1 dd 1 lt 1 ota) 1 ad + 3 ju 1 1 de | Hawkcount (BK) Hawkcount (BK) Hawkcount (BK) Hawkcount (SO) S. Kellogg Hawkcount (TP) T. Gagnon Hawkcount (SO) J. Weeks J. Mason S. Zendeh# V. Laux# V.O. R. Stymeist Hawkcount (BK) I. Davies B. Nikula v S. Broker B. Nikula ead M. Faherty | Piping Plow 9/1 9/14 10/1 10/20 Killdeer 9/1 9/7 9/11 10/12 10/27 American O 9/1 9/21 10/12 10/20 American A 10/29-31 Spotted San 9/5 9/24 10/2 10/18 Solitary San 9/3 9/8 | er P.I. Chatham (S.B.) Westport Edgartown Cumb. Farms Hadley S. Dartmouth Newbury Nantucket Oystercatcher Revere B. Chatham (S.B.) Edgartown Squantum Avocet P.I. ddpiper Ware R. IBA Reading Sheffield Sharon ndpiper Boston Sterling Peat | 124 13 6 1 1 1 125 65 61 44 10 13 30 4 2 1 | D. Larson E. Orcutt# P. Champlin L. Johnson S. Arena# S. Surner G. Gove# J. Berry# K. Blackshaw# S. Zendeh B. Nikula P. Gilmore# V. Zollo C. Sheridan + v.o. M. Lynch# D. Williams G. Ward L. Waters P. Peterson M. Lynch# |

| | piper (continued) | | | 9/6 | Longmeadow | 20 | S. Kellogg |
|---------------|--------------------|---------|------------------|---------------------|-------------------|---------------|-------------------|
| 9/26 | Winchester | 4 | M. Rines | 9/8 | Sterling Peat | 11 | M. Lynch# |
| 10/9 | Easthampton | 3 | D. McLain | 9/10 | Cambr. Res. | 14 | R. Stymeist |
| Greater Yello | | | | 10/6 | Washington | 9 | K. Hanson |
| thr | P.I. | 81 max | | White-rumpe | | | |
| 9/7 | Chatham | 165 | B. Nikula | thr | P.I. | 262 n | |
| 10/15 | Ipswich | 142 | R. Heil | 9/7, 21 | Chatham (S.B.) | | B. Nikula |
| 10/22 | Winthrop | 30 | P. Peterson | 9/29 | S. Monomoy | 8 | B. Nikula |
| 10/22 | Lynn | 43 | R. Heil | 10/14 | Truro | 8 | G. d'Entremont# |
| 10/23 | Wachusett Res. | 16 | M. Lynch# | 10/20 | Duxbury B. | 5 | R. Bowes |
| Willet | | | | 10/29 | Quabbin (G34) | 2 | B. Kamp |
| 9/9 | P.I. | 2 | D. Jackson | Baird's Sand | piper | | |
| 9/21 | Chatham | 11 | B. Harris# | 9/thr | Reports of indiv | . from | 9 locations |
| 10/5 | Orleans | 2 | SSBC (GdE) | 9/thr | P.I. | 3 n | nax v.o. |
| Western Will | et | | | 10/6 | Washington | 1 | K. Hanson |
| 9/7 | Chatham | 3 | B. Nikula | Pectoral Sand | dpiper | | |
| 9/14 | Wellfleet | 1 BE | BC (R. Stymeist) | 9/4 | Îpswich | 6 | J. Berry |
| 9/15 | Cuttyhunk | 1 | I. Davies | 9/26 | Ñorthfield | 20 | Z. Jakub |
| Lesser Yellov | | | | 10/2 | October Mt. | 7 | E. Neumuth |
| 9/1 | Ipswich | 4 | J. Berry | 10/5 | Washington | 8 | J. Pierce |
| 9/3 | P.I. | 23 | R. Heil | 10/6 | Cumb. Farms | 14 | SSBC |
| 9/21 | Revere | 4 | P. Peterson | 10/15 | Deerfield | 9 | Z. Jakub |
| 10/13 | WBWS | 7 | K. Yakola | 10/30 | P.I. | 11 | S. Sullivan |
| 10/28 | Lynn | í | R. Heil | Purple Sandr | | 11 | 5. Sumvan |
| Whimbrel | Lymn | 1 | K. Heli | 10/29 | P.I. | 1 | C. Gras |
| 9/12 | Nahant | 2 | L. Pivacek | Dunlin | Г.1. | 1 | C. Gras |
| 9/14 | | 1 | | 9/21 | Chatham (C.D.) | 150 | D. Milaulo |
| | Amherst | 2 | L. Therrien | | Chatham (S.B.) | | B. Nikula |
| 9/15 | Westport | 9 | P. Champlin | 10/14 | GMNWR | 205 | K. Dia# |
| 9/16 | P.I. | | R. Heil | 10/15 | Ipswich | 205 | R. Heil |
| 9/27 | Yarmouth | 11 | P. Crosson | 10/17 | P.I. | 300 | J. McCoy |
| 10/2 | Duxbury B. | 7 | R. Bowes | 10/27 | Duxbury B. | 854 | R. Bowes |
| 10/13 | WBWS | 5 | M. Faherty | 10/28 | S. Quabbin | 1 | L. Therrien |
| Hudsonian G | | | 75 | Stilt Sandpip | | | * 5 |
| 9/7, 21 | Chatham (S.B.) | | B. Nikula | 9/1 | Ipswich | 1 | J. Berry |
| 9/9 | Salisbury | 1 | D. Chickering# | 9/thr | P.I. | 10 n | |
| 9/29 | Newbypt H. | 1 | D. Weaver | 9/29 | S. Monomoy | 2 | B. Nikula |
| 10/15-22 | Lynn | 1 | R. Heil | Buff-breasted | d Sandpiper | | |
| 10/31 | P.I. | 3 | S. Sullivan | 9/1 | Northampton | 1 | B. Zajda# |
| Marbled God | wit | | | 9/1 | P.I. | 6 | S. Arena# |
| 9/7, 21 | Chatham (S.B.) | 1, 1 | B. Nikula | 9/6 | Concord | 2 | L. Hale |
| 10/12 | Edgartown | 1 | P. Gilmore# | 9/8 | Mashpee | 1 | M. Keleher |
| Ruddy Turns | | | | 9/8 | Orleans | 1 | P. Trull |
| 9/Ĭ | Winthrop B. | 7 | S. Zendeh | 9/11 | Nantucket | 1 | V. Laux |
| 9/1 | P.I. | 6 | J. Thomas | Short-billed | | | |
| 9/21 | Chatham (S.B.) | 30 | B. Nikula | 9/1 | Ipswich | 12 | J. Berry |
| 9/28 | Cuttyhunk | 8 | I. Davies# | 9/3 | P.I. | 75 | R. Heil |
| 10/2 | Duxbury B. | 4 | R. Bowes | 9/7, 21 | Chatham (S.B.): | | B. Nikula |
| 10/28 | Westport | 3 | M. Lynch# | 10/6 | Duxbury B. | 1 | R. Bowes |
| Red Knot | Westport | 3 | ivi. Bylicilii | 10/19 | Nantucket | 2 | J. Trimble |
| 9/2 | Ipswich (C.B.) | 13 | D. Williams | Long-billed l | | - | J. IIIIIOIC |
| 9/7, 21 | Chatham (S.B.) | | B. Nikula | 9/1 | P.I. | 2 | S. Grinley |
| 9/16 | Orleans | 140 | M. Faherty | 9/15 | Cuttyhunk | $\frac{2}{2}$ | I. Davies |
| Sanderling | Officialis | 110 | ivi. I dileity | 9/25 | Newbypt H. | 2 | MAS (B. Gette) |
| 9/7, 21 | Chatham (S.B.) | 700 525 | B. Nikula | 9/29 | S. Monomoy | 1 | B. Nikula |
| 9/10 | Revere B. | 151 | P. Peterson | Wilson's Sni | | 1 | D. Mkula |
| | Duxbury B. 525 | | R. Bowes | 9/9 | GMNWR | 4 | A. Bragg# |
| 10/2 | Sheffield | 1 | G. Ward | 10/6 | Cumb. Farms | 3 | SSBC |
| | | | | | | 2 | |
| 10/18 | | 1658 | J. Trimble | 10/18 | Arlington Res. | 2 | K. Hartel |
| 10/29 | Wachusett Res. | 1 | M. Lynch# | American Wo | | 2 | I.D. 1 |
| Semipalmate | | 510 | 0.71.1 | 9/13 | Cuttyhunk | 3 | I. Davies# |
| 9/1 | Revere B. | 510 | S. Zendeh | 9/21 | P.I. | 3 | N. Landry |
| 9/2 | Ipswich (C.B.) | 525 | D. Williams | 10/13 | Ware R. IBA | 8 | M. Lynch# |
| 9/3 | P.I. | 1900 | R. Heil | Wilson's Pha | | 1 | 1 D |
| 9/7 | Chatham (S.B.) | | B. Nikula | 9/1 | Ipswich | 1 | J. Berry |
| 10/6 | Duxbury B. | 180 | R. Bowes | 9/10 | P.I. | 1. | BBC (D. Williams) |
| Western Sand | | 2 | D D | Red-necked | | | 77.3.7.11 |
| 9/1 | Squantum | 2 | R. Donovan | 9/4 | Tillies Bank | 4 | K. Mueller |
| 9/10 | P.I. | 2 | S. Grinley | 9/14 | Duxbury B. | 1 | S. Olanoff |
| 9/21 | Chatham (S.B.) | 1 | B. Nikula | 9/14 | P.I. | 1 | T. Wetmore# |
| Least Sandpi | | | | | | | |
| | | | | Red Phalarop | | | ** ** ** |
| 9/3 | per Northampton | 11 | M. Lynch# | Red Phalarop 9/4 | e Tillies Bank | 4 | K. Mueller |

| Red Phalaror | e (continued) | | | 9/27 | Boston H. 4 | R. Schain |
|------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| 9/17 | Plymouth B. | 1 | S. van der Veen | 10/5 | Westport 6 | P. Champlin |
| Black-legged | l Kittiwake | | | 10/6 | Cumb. Farms 2 | SŜBC |
| 10/5, 30 | E. of Chatham | 1, 25 | B. Nikula# | Black Tern | | |
| 10/6 | Rockport (A.P.) | 1 | R. Heil | 9/2 | Barnstable (S.N.) 15 | P. Crosson |
| Sabine's Gu | | | | 9/14 | Chatham (S.B.) 1 | J. Hoye# |
| 9/14-18 | Chatham | 1 | C. Goodrich# | 9/15 | Cuttyhunk 5 | I. Davies# |
| 10/30 | E. of Chatham | 1 | B. Nikula# | 9/22 | Haverhill 1 | S. Mirick |
| Bonaparte's | Gull | | | Roseate Tern | | |
| 9/7 | Newbypt | 300 | S. Grinley | 9/2 | Ipswich (C.B.) 2 | D. Williams |
| 10/12 | P'town | 170 | B. Nikula | 9/10 | P.I. 3 | T. Wetmore |
| 10/12 | Revere B. | 105 | R. Stymeist | 9/21 | Chatham (S.B.) 20 | B. Nikula |
| 10/31 | P.I. | 200 | J. Šender | Common Ter | | |
| Black-headed | d Gull | | | 9/2 | Ipswich (C.B.) 137 | D. Williams |
| 9/14 | Chatham | 1 | E. Orcutt | 9/27 | P.I. 2 | T. Wetmore |
| Little Gull | | | | 9/28,10/20 | 9 P'town 1400, 2150 | B. Nikula |
| 9/7 | Newbypt | 1 imn | n S. Grinley | 10/5 | Westport 12 | P. Champlin |
| 9/19 | Chatham | 1 | J. Hoye# | Forster's Terr | | |
| 10/12 | Dennis (Corp. B | .) 1 | P. Flood | 9/2 | Barnstable (S.N.) 20 | P. Crosson |
| 10/12 | Lynn B. | 1 imn | n S. Sullivan | 9/7 | Ipswich 4 | S. Grinley |
| 10/12-26 | P [*] town | 1 ad | B. Nikula | 10/12 | Fairhaven 29 | M. Lynch# |
| 10/23 | N. Truro | 1 imn | n B. Nikula | 10/13 | P'town 90 | B. Ňikula |
| Laughing Gu | 11 | | | 10/25 | Westport 50 | P. Champlin |
| 9/2 | P.I. | 26 | L. Pivacek | Black Skimn | | |
| 9/3 | Nahant | 30 | J. Hoye# | 10/6 | Dennis 5 | P. Flood |
| 9/4 | P'town | 400 | B. Nikula | 10/12 | Revere B. 9 | R. Stymeist |
| 9/28 | Cuttyhunk | 550 | I. Davies# | 10/15, 27 | P.I. 6, 4 | V.O. |
| | | | | | | |
| 10/5, 30 | E. of Chatham 2 | 000, 700 | B. Nikula# | 10/18 | Ipswich 6 | J. Berry# |
| 10/5, 30 Lesser Black | | 000, 700 | B. Nikula# | | | J. Berry# J. Leary |
| | | 000, 700 1 | B. Nikula# E. Labato | 10/18 | Ipswich 6 Orleans 8 | |
| Lesser Black | -backed Gull | | | 10/18 10/22 | Ipswich 6 Orleans 8 Newbypt 6 | J. Leary |
| Lesser Black 9/1 | -backed Gull P.I. | 1 | E. Labato | 10/18 10/22 10/22 | Ipswich 6 Orleans 8 Newbypt 6 | J. Leary |
| Lesser Black 9/1 9/16 | -backed Gull P.I. Orleans | 1 6 45 6 | E. Labato M. Faherty | 10/18 10/22 10/22 South Polar | Ipswich 6 Orleans 8 Newbypt 6 Skua 5 m S. of Nomans 1 ph | J. Leary J. Forbes |
| Lesser Black 9/1 9/16 9/21 | -backed Gull P.I. Orleans Chatham (S.B.) | 1 6 45 | E. Labato M. Faherty B. Nikula | 10/18 10/22 10/22 South Polar 9/3 | Ipswich 6 Orleans 8 Newbypt 6 Skua 5 m S. of Nomans 1 ph | J. Leary J. Forbes |
| Lesser Black 9/1 9/16 9/21 9/29 | -backed Gull P.I. Orleans Chatham (S.B.) S. Monomoy | 1 6 45 6 | E. Labato M. Faherty B. Nikula B. Nikula | 10/18 10/22 10/22 South Polar 9/3 Pomarine Jae | Ipswich 6 Orleans 8 Newbypt 6 Skua 5 m S. of Nomans 1 ph eger E. of Chatham 1, 1 | J. Leary J. Forbes S. Stephens |
| Lesser Black 9/1 9/16 9/21 9/29 10/5 | -backed Gull P.I. Orleans Chatham (S.B.) S. Monomoy E. of Chatham | 1 6 45 6 9 | E. Labato M. Faherty B. Nikula B. Nikula B. Nikula# | 10/18 10/22 10/22 South Polar 9/3 Pomarine Jae 10/5, 19 | Ipswich 6 Orleans 8 Newbypt 6 Skua 5 m S. of Nomans 1 ph eger E. of Chatham 1, 1 | J. Leary J. Forbes S. Stephens |
| Lesser Black 9/1 9/16 9/21 9/29 10/5 10/19 | -backed Gull P.I. Orleans Chatham (S.B.) S. Monomoy E. of Chatham | 1 6 45 6 9 57 | E. Labato M. Faherty B. Nikula B. Nikula B. Nikula# | 10/18 10/22 10/22 South Polar 9/3 Pomarine Jae 10/5, 19 Parasitic Jaeg | Ipswich 6 Orleans 8 Newbypt 6 Skua 5 m S. of Nomans 1 ph eger E. of Chatham 1, 1 | J. Leary J. Forbes S. Stephens B. Nikula# |
| Lesser Black 9/1 9/16 9/21 9/29 10/5 10/19 Least Tern | -backed Gull P.I. Orleans Chatham (S.B.) S. Monomoy E. of Chatham Nantucket | 1 6 45 6 9 57 | E. Labato M. Faherty B. Nikula B. Nikula B. Nikula# J. Trimble | 10/18 10/22 10/22 South Polar 9/3 Pomarine Jae 10/5, 19 Parasitic Jaeg 9/4 | Ipswich 6 Orleans 8 Newbypt 6 Skua 5 m S. of Nomans 1 ph oger E. of Chatham 1, 1 ger Tillies Bank 2 | J. Leary J. Forbes S. Stephens B. Nikula# K. Mueller |
| Lesser Black 9/1 9/16 9/21 9/29 10/5 10/19 Least Tern 9/7 | -backed Gull P.I. Orleans Chatham (S.B.) S. Monomoy E. of Chatham Nantucket Ipswich Chatham (S.B.) | 1 6 45 6 9 57 | E. Labato M. Faherty B. Nikula B. Nikula B. Nikula# J. Trimble B. Harris | 10/18 10/22 10/22 South Polar 9/3 Pomarine Jae 10/5, 19 Parasitic Jaeg 9/4 | Ipswich 6 Orleans 8 Newbypt 6 Skua 5 m S. of Nomans 1 ph eger E. of Chatham 1, 1 ger Tillies Bank 2 P'town 2, 13 | J. Leary J. Forbes S. Stephens B. Nikula# K. Mueller B. Nikula |
| Lesser Black 9/1 9/16 9/21 9/29 10/5 10/19 Least Tern 9/7 9/10 | -backed Gull P.I. Orleans Chatham (S.B.) S. Monomoy E. of Chatham Nantucket Ipswich Chatham (S.B.) | 1 6 45 6 9 57 2 | E. Labato M. Faherty B. Nikula B. Nikula B. Nikula# J. Trimble B. Harris | 10/18 10/22 10/22 South Polar 9/3 Pomarine Jae 10/5, 19 Parasitic Jaeg 9/4 9/4, 30 9/19 | Ipswich 6 6 6 6 6 6 6 6 6 | J. Leary J. Forbes S. Stephens B. Nikula# K. Mueller B. Nikula B. Nikula |
| Lesser Black 9/1 9/16 9/21 9/29 10/5 10/19 Least Tern 9/7 9/10 Caspian Tern | -backed Gull P.I. Orleans Chatham (S.B.) S. Monomoy E. of Chatham Nantucket Ipswich Chatham (S.B.) | 1 6 45 6 9 57 2 5 | E. Labato M. Faherty B. Nikula B. Nikula B. Nikula# J. Trimble B. Harris E. Orcutt | 10/18 10/22 10/22 South Polar 9/3 Pomarine Jae 10/5, 19 Parasitic Jaeg 9/4 9/4, 30 9/19 9/21 | Ipswich 6 6 6 6 6 6 6 6 6 | J. Leary J. Forbes S. Stephens B. Nikula# K. Mueller B. Nikula B. Nikula |
| Lesser Black 9/1 9/16 9/21 9/29 10/5 10/19 Least Tern 9/7 9/10 Caspian Tern 9/8 9/16 9/20 | -backed Gull P.I. Orleans Chatham (S.B.) S. Monomoy E. of Chatham Nantucket Ipswich Chatham (S.B.) | 1 6 45 6 9 57 2 5 | E. Labato M. Faherty B. Nikula B. Nikula B. Nikula J. Trimble B. Harris E. Orcutt R. Donovan M. Faherty K. Elwell | 10/18 10/22 10/22 South Polar 9/3 Pomarine Jae 10/5, 19 Parasitic Jaes 9/4 9/4, 30 9/19 9/21 9/27 | Ipswich 6 6 Orleans 8 Newbypt 6 Skua 5 m S. of Nomans 1 phoger E. of Chatham 1, 1 ger Tillies Bank 2 P'town 2, 13 Chatham 4 N. Truro 5 P.I. 1 | J. Leary J. Forbes S. Stephens B. Nikula# K. Mueller B. Nikula B. Nikula T. Wetmore |
| Lesser Black 9/1 9/16 9/21 9/29 10/5 10/19 Least Tern 9/7 9/10 Caspian Tern 9/8 9/16 9/20 9/21 | -backed Gull P.I. Orleans Chatham (S.B.) S. Monomoy E. of Chatham Nantucket Ipswich Chatham (S.B.) Squantum Orleans | 1 6 45 6 9 57 2 5 2 6 5 2 | E. Labato M. Faherty B. Nikula B. Nikula B. Nikula# J. Trimble B. Harris E. Orcutt R. Donovan M. Faherty | 10/18 10/22 10/22 South Polar 9/3 Pomarine Jae 10/5, 19 Parasitic Jaeg 9/4, 30 9/19 9/21 9/27 10/5, 15 10/6 10/6, 23 | Ipswich 6 Orleans 8 Newbypt 6 Skua 5 m S. of Nomans 1 ph ger E. of Chatham 1, 1 ger Tillies Bank 2 P'town 2, 13 Chatham 4 N. Truro 5 P.I. 1 E. of Chatham 20, 10 Rockport (A.P.) 1 P'town 28, 17 | J. Leary J. Forbes S. Stephens B. Nikula# K. Mueller B. Nikula B. Nikula T. Wetmore B. Nikula# |
| Lesser Black 9/1 9/16 9/21 9/29 10/5 10/19 Least Tern 9/7 9/10 Caspian Tern 9/8 9/16 9/20 | -backed Gull P.I. Orleans Chatham (S.B.) S. Monomoy E. of Chatham Nantucket Ipswich Chatham (S.B.) Squantum Orleans Newbury | 1 6 45 6 9 57 2 5 | E. Labato M. Faherty B. Nikula B. Nikula B. Nikula J. Trimble B. Harris E. Orcutt R. Donovan M. Faherty K. Elwell | 10/18 10/22 10/22 South Polar 9/3 Pomarine Jae 10/5, 19 Parasitic Jaes 9/4, 30 9/19 9/21 9/27 10/5, 15 10/6 | Ipswich 6 Orleans 8 Newbypt 6 Skua 5 m S. of Nomans 1 ph ger E. of Chatham 1, 1 ger Tillies Bank 2 P'town 2, 13 Chatham 4 N. Truro 5 P.I. 1 E. of Chatham 20, 10 Rockport (A.P.) 1 P'town 28, 17 | J. Leary J. Forbes S. Stephens B. Nikula# K. Mueller B. Nikula B. Nikula B. Nikula T. Wetmore B. Nikula# R. Heil |



SNOWY OWL BY DAVID M. LARSON

CUCKOOS THROUGH FINCHES

This period coincides with the bulk of fall migration of Northern Saw-whet Owl. Unlike last year, which was one of the best for the number of birds banded from various banding stations in the state, this season had low numbers banded. Lookout Rock in Northborough experienced the worst capture rate in all of its 11-year study, with just 48 newly banded birds compared with 106 from 2012. Normally, hatch-year birds comprise over 60% of captures, but this year Lookout Rock's captures were just 24% hatch-year and Drumlin Farm's were just 7%. These numbers suggest poor breeding success this season.

This fall was one of the best in many years for migrating Common Nighthawks. Good numbers continued into the early days of September, especially in the Connecticut River valley. As many as eight Whip-poor-wills were tallied on Plum Island on September 15, and one was last heard on September 27.

A **Calliope Hummingbird** was discovered during the third annual Nantucket Birding Festival sponsored by the Linda Loring Nature Foundation. This was the fifth record for the state; the first was from Eastham in 2002 and the second from Deerfield in 2008. A **Rufous Hummingbird**, now almost an annual visitor during the period, was banded in Brewster. Late Ruby-throats were noted from Newton and Arlington in October.

At Mount Wachusett, when observers could take their eyes off the record number of Broadwinged Hawks, they also recorded over 134 American Kestrels, 28 Merlins. and 25 Peregrines. There were three Red-headed Woodpeckers noted, down from a high of seven from the same period last year.

A cold front passed through on September 2, and the next morning birders reported large numbers of songbird migrants. Another cold front passed on September 16 with clearing skies and with the wind shifting to the north, producing a new group and a strong turnover in both numbers and composition. At Plum Island, the temperatures were in the mid 40s at dawn and hundreds of birds dropped onto the island, including as many as 18 Philadelphia Vireos, 26 Red-eyed Vireos, and 18 species of warblers, including 12 Cape May. Tree Swallows continued in large numbers during the first two weeks of September. Thirty-one species of warblers were noted during the period, including a **Golden-winged Warbler** banded at Manomet, the Center's first since September 1995. Other notable warblers observed included over 25 Orange-crowned, 39 Connecticut, 10 Hooded, 31 Cape May, and a **Black-throated Gray Warbler** photographed on Nantucket.

The sparrow migration was a highlight for birders during this period, with 17 members plus Ipswich Sparrow noted. Clay-colored Sparrows are routine now with at least 44 reported; 16 Vesper, 7 Lark, 5 Grasshopper, and 11 Nelson's were among the more unusual. Some of our common sparrows were noted in exceptional numbers, such as 175 Chipping Sparrows in Paxton and 246 Savannah from Cumberland Farms, where also an amazing number of nearly 900 Swamp Sparrows were estimated on October 6.

Unusual birds included **Western Kingbirds** in Yarmouth and Concord, a **Sedge Wren** in Northampton, a **Western Tanager** in Chatham, a **Yellow-headed Blackbird** on Cuttyhunk Island, and also on the island was a possible **Lazuli Bunting**. This bird was well described and photographed, but differentiating between Lazuli and Indigo buntings in the fall is difficult. Yet another possible Lazuli Bunting was discovered from the Honey Pot area in Hadley October 2.

R. H. Stymeist

| Yellow-billed | l Cuckoo | | | Peregrine Fa | lcon | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9/1-10/7 | Reports of indi | v. from 1 | 1 locations | 9/11 | P.I. | 4 | MAS (B. Gette) |
| 10/25 | Brewster | 1 b | S. Finnegan | 9/13-30 | Mt. Wachusett | 22 | Hawkcount (SO) |
| 10/27 | Concord | 1 | J. Winstanley | 9/18 | Longmeadow | 3 | I. Davies |
| Black-billed | | 1 | т С | 9/18 | Mt. Wachusett | 3 | Hawkcount (SO) |
| 9/14 9/15 | Sudbury P.I. | 1 1 | T. Spahr N. Landry | 10/5 Red-beaded | Concord Woodpecker | 3 | C. Winstanley |
| 9/23 | Marlboro | 1 | T. Spahr | 10/2 | Granville | 1 | J. Weeks |
| 9/28 | Nantucket | 1 | V. Laux | 10/21 | Westport | | imm P. Champlin |
| 9/28 | Rockport | 1 | R. Heil | 10/25 | Wellesley | 1 | imm B. Harris |
| 9/29 | Gloucester | 1 | R. Heil | Red-bellied | | | |
| Barn Owl | NT . 1 . | 2 | *** | 9/21 | Braintree | 5 | G. d'Entremont# |
| 9/28 Fastara Sama | Nantucket | 2 | V. Laux | 9/26 | Brookline | 5 | BBC (R. Stymeist) |
| Eastern Scree 9/21 | Braintree | 4 | G. d'Entremont | 9/27 10/22 | Ipswich Southboro | 6 6 | J. Berry M. Lynch# |
| 10/5 | Concord | 2 | S. Perkins | | ed Sapsucker | U | Wi. Lynciiπ |
| Great Horned | | _ | 5.10111115 | 9/28 | Gloucester(E.P.) | 8 | S. Hedman |
| 9/13 | W. Gloucester | 2 | J. Nelson | 10/3 | Medford | 3 | R. LaFontaine |
| 9/27 | Cuttyhunk | 2 | I. Davies# | 10/4 | Wellfleet | 5 | M. Keleher |
| 10/9 | Middleboro | 2 | K. Anderson | 10/5 | MNWS | 4 | M. Sabourin |
| 10/28 | Woburn (HP) | 2 | M. Rines | 10/8 | Malden | 3 | P. + F. Vale |
| Barred Owl 9/14 | Sudbury | 2 | T. Spahr | 10/8 Northern Fli | Boston (Fens) | 4 | P. Peterson |
| 10/5 | Upton | 4 | B. Cassie | 9/26 | P.I. | 21 | P. + F. Vale |
| Long-eared C | | • | | 10/5 | Woburn | 22 | M. Rines# |
| 10/4 | Otis | 1 | W. Rogers | 10/17 | Dover | 25 | B. Cassie |
| Short-eared (| | | | Pileated Woo | | | |
| 10/6, 29 | Duxbury B. | 1 | R. Bowes | 9/15 | Quabog IBA | 3 | M. Lynch# |
| 10/6 | Northampton | | . & L. Richardson | 9/22 | S. Quabbin | 3 | M. Lynch# |
| 10/25 Northern Sav | Westport | 1 | P. Champlin | 10/2 10/4 | Newbypt Washington | 2 2 | J. Berry# E. Neumuth |
| 10/25 | DFWS | 9 b | MAS (KS) | Olive-sided l | | _ | L. Neumum |
| 10/25, 26 | | 6 b, 3 b | MAS (SW) | 9/1 | Bradford | 1 | S. + J. Mirick |
| 10/26 | Belchertown | 1 | L. Therrien | 9/11 | Longmeadow | 1 | A. & L. Richardson |
| 10/26 | Gill | 1 | T. Bullock | 9/13 | Ware R. IBA | 1 | M. Lynch# |
| Common Nig | | | | 9/14 | Concord | 1 | D. Sibley |
| | | | € Kallogg | | | | |
| 9/2 | Southwick | 505 | S. Kellogg | 9/17 | Westboro | 1 | N. Paulson |
| 9/2 | Northampton | 303 | T. Gagnon | 9/21 | P.I. | 1 | BBC (I. Giriunas) |
| 9/2 9/3, 10/9 | Northampton Concord | 303 38, 1 | T. Gagnon S. Perkins# | 9/21 Eastern Woo | P.I. d-Pewee | 1 | BBC (I. Giriunas) |
| 9/2 9/3, 10/9 9/4 | Northampton Concord Boston | 303 | T. Gagnon S. Perkins# M. Brengle | 9/21 Eastern Woo 9/15 | P.I. d-Pewee Cuttyhunk | 1 5 | BBC (I. Giriunas) I. Davies |
| 9/2 9/3, 10/9 | Northampton Concord Boston Barre Falls | 303 38, 1 4 | T. Gagnon S. Perkins# | 9/21 Eastern Woo | P.I. d-Pewee | 1 | BBC (I. Giriunas) |
| 9/2 9/3, 10/9 9/4 9/22 Eastern Whip 9/15, 27 | Northampton Concord Boston Barre Falls o-poor-will P.I. | 303 38, 1 4 | T. Gagnon S. Perkins# M. Brengle | 9/21 Eastern Woo 9/15 9/16 9/17 9/17 | P.I. d-Pewee Cuttyhunk Northampton P.I. Lincoln | 1 5 3 4 4 | BBC (I. Giriunas) I. Davies B. Zajda R. Heil J. Forbes |
| 9/2 9/3, 10/9 9/4 9/22 Eastern Whip 9/15, 27 Chimney Sw | Northampton Concord Boston Barre Falls o-poor-will P.I. | 303 38, 1 4 3 8, 1 | T. Gagnon S. Perkins# M. Brengle B. Kamp T. Wetmore | 9/21 Eastern Woo 9/15 9/16 9/17 9/17 9/29 | P.I. d-Pewee Cuttyhunk Northampton P.I. Lincoln Worc. (BMB) | 1 5 3 4 4 5 | BBC (I. Giriunas) I. Davies B. Zajda R. Heil J. Forbes S. Woodard |
| 9/2 9/3, 10/9 9/4 9/22 Eastern Whip 9/15, 27 Chimney Sw 9/9 | Northampton Concord Boston Barre Falls D-poor-will P.I. ift Cambr. (F.P.) | 303 38, 1 4 3 8, 1 | T. Gagnon S. Perkins# M. Brengle B. Kamp T. Wetmore R. Stymeist# | 9/21 Eastern Woo 9/15 9/16 9/17 9/17 9/29 10/6 | P.I. d-Pewee Cuttyhunk Northampton P.I. Lincoln Worc. (BMB) Cambr. (F.P.) | 1 5 3 4 4 | BBC (I. Giriunas) I. Davies B. Zajda R. Heil J. Forbes |
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| 9/2 9/3, 10/9 9/4 9/22 Eastern Whip 9/15, 27 Chimney Sw 9/9 9/11 9/12 | Northampton Concord Boston Barre Falls D-poor-will P.I. ifft Cambr. (F.P.) Woburn Mt. Wachusett | 303 38, 1 4 3 8, 1 10 12 12 | T. Gagnon S. Perkins# M. Brengle B. Kamp T. Wetmore R. Stymeist# M. Rines S. Olson | 9/21 Eastern Woo 9/15 9/16 9/17 9/17 9/29 10/6 Yellow-bellic 9/1-28 | P.I. d-Pewee Cuttyhunk Northampton P.I. Lincoln Worc. (BMB) Cambr. (F.P.) ed Flycatcher Reports of indiv | 1 5 3 4 4 5 1 | BBC (I. Giriunas) I. Davies B. Zajda R. Heil J. Forbes S. Woodard J. Trimble |
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| 9/2 9/3, 10/9 9/4 9/22 Eastern Whip 9/15, 27 Chimney Sw. 9/9 9/11 9/12 10/7 Ruby-throate 9/1 9/14 10/10 10/13 Calliope Hui 10/19-22 Rufous Hum 10/30 American Ke 9/3-30 9/4-28 | Northampton Concord Boston Barre Falls Depoor-will P.I. ifit Cambr. (F.P.) Woburn Mt. Wachusett Concord d Hummingbird Quabog IBA Westport Cuttyhunk Newton Arlington mmingbird Nantucket uningbird Brewster strel Mt. Wachusett Barre Falls | 303 38, 1 4 3 8, 1 10 12 12 16 5 7 9 1 1 1 ph 1 b | T. Gagnon S. Perkins# M. Brengle B. Kamp T. Wetmore R. Stymeist# M. Rines S. Olson K. Dia# M. Lynch# P. Champlin I. Davies# M. Bakker M. Rines V. Laux + v.o. S. Finnegan Hawkcount (SO) Hawkcount (BK) | 9/21 Eastern Woo 9/15 9/16 9/17 9/17 9/29 10/6 Yellow-bellid 9/1-28 Least Flycate 9/3 9/3, 10/11 9/25 Eastern Phoe 9/14 9/23 9/24 10/8 10/21 10/29 Great Creste 9/15 | P.I. d-Pewee Cuttyhunk Northampton P.I. Lincoln Worc. (BMB) Cambr. (F.P.) ed Flycatcher Reports of individent P.I. Lexington Concord ebb Wellfleet Boston (Fens) P.I. Burlington Westport October Mt. MNWS d Flycatcher Cuttyhunk | 1 5 3 4 4 5 5 1 . from 4 2, 1 2 2 14 14 14 24 14 13 2 1 | BBC (I. Giriunas) I. Davies B. Zajda R. Heil J. Forbes S. Woodard J. Trimble 17 locations R. Heil M. Rines L. Hale BBC (R. Stymeist) R. Schain R. Heil M. Rines P. Champlin E. Neumuth D. Noble I. Davies# |
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| 9/2 9/3, 10/9 9/4 9/22 Eastern Whip 9/15, 27 Chimney Sw. 9/9 9/11 9/12 10/7 Ruby-throate 9/1 9/14 10/10 10/13 Calliope Hu 10/19-22 Rufous Hum 10/30 American Ke 9/3-30 9/4-28 10/1-25 10/8 10/8 | Northampton Concord Boston Barre Falls Depointed Falls P.I. ifft Cambr. (F.P.) Woburn Mt. Wachusett Concord d Hummingbird Quabog IBA Westport Cuttyhunk Newton Arlington mmingbird Nantucket uningbird Brewster estrel Mt. Wachusett Barre Falls Mt. Wachusett Barre Falls Granville Barre Falls Mt. Wachusett Barre Falls Mt. Wachusett Barre Falls Mt. Wachusett | 303 38, 1 4 3 8, 1 10 12 12 16 5 7 9 1 1 1 b 97 37 25 39 22 15 | T. Gagnon S. Perkins# M. Brengle B. Kamp T. Wetmore R. Stymeist# M. Rines S. Olson K. Dia# M. Lynch# P. Champlin I. Davies# M. Bakker M. Rines V. Laux + v.o. S. Finnegan Hawkcount (BK) Hawkcount (BK) J. Weeks Hawkcount (BK) Hawkcount (BK) Hawkcount (BK) | 9/21 Eastern Woo 9/15 9/16 9/17 9/17 9/29 10/6 Yellow-bellic 9/1-28 Least Flycate 9/3 9/3, 10/11 9/25 Eastern Phoe 9/14 9/23 9/24 10/8 10/29 10/29 Great Creste 9/15 9/19 9/23 Western Kin 9/18 10/31 | P.I. d-Pewee Cuttyhunk Northampton P.I. Lincoln Worc. (BMB) Cambr. (F.P.) ed Flycatcher Reports of indivents Concord ebbe Wellfleet Boston (Fens) P.I. Burlington Westport October Mt. MNWS d Flycatcher Cuttyhunk Quabbin Pk Westport ugbird Yarmouth Concord | 1 5 3 4 4 4 5 1 1 . from 4 2, 1 1 2 2 1 4 1 1 1 1 | BBC (I. Giriunas) I. Davies B. Zajda R. Heil J. Forbes S. Woodard J. Trimble 17 locations R. Heil M. Rines L. Hale BBC (R. Stymeist) R. Schain R. Heil M. Rines P. Champlin E. Neumuth D. Noble I. Davies# L. Therrien P. Champlin |
| 9/2 9/3, 10/9 9/4 9/22 Eastern Whip 9/15, 27 Chimney Sw. 9/9 9/11 9/12 10/7 Ruby-throate 9/1 9/14 10/10 10/13 Calliope Hun 10/30 American Ke 9/3-30 9/4-28 10/1-25 10/3-20 10/8 10/8 | Northampton Concord Boston Barre Falls Depoor-will P.I. ifit Cambr. (F.P.) Woburn Mt. Wachusett Concord d Hummingbird Quabog IBA Westport Cuttyhunk Newton Arlington mmingbird Nantucket timingbird Brewster strel Mt. Wachusett Barre Falls Mt. Wachusett Barre Falls Granville Barre Falls | 303 38, 1 4 3 8, 1 10 12 12 16 5 7 9 1 1 1 1 b 97 37 25 39 22 15 | T. Gagnon S. Perkins# M. Brengle B. Kamp T. Wetmore R. Stymeist# M. Rines S. Olson K. Dia# M. Lynch# P. Champlin I. Davies# M. Bakker M. Rines V. Laux + v.o. S. Finnegan Hawkcount (SO) Hawkcount (BK) Hawkcount (BK) J. Weeks Hawkcount (BK) | 9/21 Eastern Woo 9/15 9/16 9/17 9/17 9/17 9/29 10/6 Yellow-bellid 9/1-28 Least Flycate 9/3 9/3, 10/11 9/25 Eastern Phoe 9/14 9/23 9/24 10/8 10/21 10/29 Great Creste 9/15 9/19 9/23 Western Kin 9/18 10/31 Eastern King | P.I. d-Pewee Cuttyhunk Northampton P.I. Lincoln Worc. (BMB) Cambr. (F.P.) ed Flycatcher Reports of indiventer P.I. Lexington Concord ebe Wellfleet Boston (Fens) P.I. Burlington Westport October Mt. MNWS d Flycatcher Cuttyhunk Quabbin Pk Westport ogabird Yarmouth Concord ebird | 1 5 3 4 4 4 5 1 1 . from 4 2, 1 2 2 1 1 4 1 1 1 1 1 1 | BBC (I. Giriunas) I. Davies B. Zajda R. Heil J. Forbes S. Woodard J. Trimble 17 locations R. Heil M. Rines L. Hale BBC (R. Stymeist) R. Schain R. Heil M. Rines P. Champlin E. Neumuth D. Noble I. Davies# L. Therrien P. Champlin P. Crosson# D. Sibley + v.o. |
| 9/2 9/3, 10/9 9/4 9/22 Eastern Whip 9/15, 27 Chimney Sw. 9/9 9/11 9/12 10/7 Ruby-throate 9/1 9/14 10/10 10/13 Calliope Hui 10/19-22 Rufous Hum 10/30 American Ke 9/3-30 9/4-28 10/1-25 10/3-20 10/8 10/8 10/8 Merlin | Northampton Concord Boston Barre Falls Depoor-will P.I. ifit Cambr. (F.P.) Woburn Mt. Wachusett Concord d Hummingbird Quabog IBA Westport Cuttyhunk Newton Arlington mmingbird Nantucket amingbird Brewster strel Mt. Wachusett Barre Falls Mt. Wachusett Barre Falls Granville Barre Falls Mt. Wachusett Russell | 303 38, 1 4 3 8, 1 10 12 12 16 5 7 9 1 1 1 1 b 97 37 25 39 22 15 12 19 | T. Gagnon S. Perkins# M. Brengle B. Kamp T. Wetmore R. Stymeist# M. Rines S. Olson K. Dia# M. Lynch# P. Champlin I. Davies# M. Bakker M. Rines V. Laux + v.o. S. Finnegan Hawkcount (SO) Hawkcount (BK) Hawkcount (BK) Hawkcount (BK) Hawkcount (BK) Hawkcount (BK) T. Swochak | 9/21 Eastern Woo 9/15 9/16 9/17 9/17 9/17 9/29 10/6 Yellow-bellid 9/1-28 Least Flycate 9/3 9/3, 10/11 9/25 Eastern Phoe 9/14 9/23 9/24 10/8 10/21 10/29 Great Creste 9/15 9/19 9/23 Western Kin 9/18 10/31 Eastern King 9/3 | P.I. d-Pewee Cuttyhunk Northampton P.I. Lincoln Worc. (BMB) Cambr. (F.P.) ed Flycatcher Reports of individer P.I. Lexington Concord bbe Wellfleet Boston (Fens) P.I. Burlington Westport October Mt. MNWS d Flycatcher Cuttyhunk Quabbin Pk Westport ogbird Yarmouth Concord gbird P.I. | 1 5 3 4 4 4 5 1 1 . from 4 2, 1 2 2 1 1 1 1 1 2 2 2 2 | BBC (I. Giriunas) I. Davies B. Zajda R. Heil J. Forbes S. Woodard J. Trimble 17 locations R. Heil M. Rines L. Hale BBC (R. Stymeist) R. Schain R. Heil M. Rines P. Champlin E. Neumuth D. Noble I. Davies# L. Therrien P. Champlin P. Crosson# D. Sibley + v.o. R. Heil |
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| 9/2 9/3, 10/9 9/4 9/22 Eastern Whip 9/15, 27 Chimney Sw. 9/9 9/11 9/12 10/7 Ruby-throate 9/1 9/14 10/10 10/13 Calliope Hu 10/19-22 Rufous Hum 10/30 American Ke 9/3-30 9/4-28 10/1-25 10/3-20 10/8 10/8 10/8 Merlin 9/3-29 9/18 | Northampton Concord Boston Barre Falls Depoor-will P.I. ifit Cambr. (F.P.) Woburn Mt. Wachusett Concord d Hummingbird Quabog IBA Westport Cuttyhunk Newton Arlington mmingbird Nantucket uningbird Brewster strel Mt. Wachusett Barre Falls Mt. Wachusett Barre Falls Granville Barre Falls Mt. Wachusett Russell Mt. Wachusett Russell Mt. Wachusett Mt. Wachusett Mt. Wachusett Mt. Wachusett Mt. Wachusett Russell | 303 38, 1 4 3 8, 1 10 12 12 16 5 7 9 1 1 1 ph 1 b 97 37 25 39 22 15 12 19 22 | T. Gagnon S. Perkins# M. Brengle B. Kamp T. Wetmore R. Stymeist# M. Rines S. Olson K. Dia# M. Lynch# P. Champlin I. Davies# M. Bakker M. Rines V. Laux + v.o. S. Finnegan Hawkcount (SO) Hawkcount (BK) Hawkcount (BK) Hawkcount (BK) Hawkcount (BK) Hawkcount (BK) T. Swochak | 9/21 Eastern Woo 9/15 9/16 9/17 9/17 9/17 9/29 10/6 Yellow-bellid 9/1-28 Least Flycate 9/3 9/3, 10/11 9/25 Eastern Phoe 9/14 9/23 9/24 10/8 10/21 10/29 Great Creste 9/15 9/19 9/23 Western Kin 9/18 10/31 Eastern King 9/3 | P.I. d-Pewee Cuttyhunk Northampton P.I. Lincoln Worc. (BMB) Cambr. (F.P.) ed Flycatcher Reports of individent Concord ebe Wellfleet Boston (Fens) P.I. Burlington Westport October Mt. MNWS d Flycatcher Cuttyhunk Quabbin Pk Westport ngbird Yarmouth Concord ebird P.I. Cuttyhunk Cuttyhunk Cuttyhunk Concord | 1 5 3 4 4 4 5 1 1 . from 4 2, 1 2 2 1 1 1 1 1 2 2 2 2 | BBC (I. Giriunas) I. Davies B. Zajda R. Heil J. Forbes S. Woodard J. Trimble 17 locations R. Heil M. Rines L. Hale BBC (R. Stymeist) R. Schain R. Heil M. Rines P. Champlin E. Neumuth D. Noble I. Davies# L. Therrien P. Champlin P. Crosson# D. Sibley + v.o. R. Heil |
| 9/2 9/3, 10/9 9/4 9/22 Eastern Whip 9/15, 27 Chimney Sw 9/9 9/11 9/12 10/7 Ruby-throate 9/1 9/14 10/10 10/13 Calliope Hu 10/19-22 Rufous Hum 10/30 American Ke 9/3-30 9/4-28 10/1-25 10/3-20 10/8 10/8 10/8 10/8 10/8 19/3-29 | Northampton Concord Boston Barre Falls Depoint Falls P.I. Iff Cambr. (F.P.) Woburn Mt. Wachusett Concord d Hummingbird Quabog IBA Westport Cuttyhunk Newton Arlington mmingbird Nantucket mingbird Brewster estrel Mt. Wachusett Barre Falls Mt. Wachusett Barre Falls Granville Barre Falls Mt. Wachusett Russell Mt. Wachusett Russell Mt. Wachusett | 303 38, 1 4 3 8, 1 10 12 12 16 5 7 9 1 1 1 b 97 37 25 39 22 15 12 19 26 | T. Gagnon S. Perkins# M. Brengle B. Kamp T. Wetmore R. Stymeist# M. Rines S. Olson K. Dia# M. Lynch# P. Champlin I. Davies# M. Bakker M. Rines V. Laux + v.o. S. Finnegan Hawkcount (BK) Hawkcount (BK) J. Weeks Hawkcount (PR) T. Swochak Hawkcount (SO) Hawkcount (PR) T. Swochak | 9/21 Eastern Woo 9/15 9/16 9/17 9/17 9/29 10/6 Yellow-bellic 9/1-28 Least Flycate 9/3 9/3, 10/11 9/25 Eastern Phoe 9/14 9/23 9/24 10/8 10/29 10/29 Great Creste 9/15 9/19 9/23 Western Kin 9/18 10/31 Eastern King 9/3 9/14 White-eyed | P.I. d-Pewee Cuttyhunk Northampton P.I. Lincoln Worc. (BMB) Cambr. (F.P.) ed Flycatcher Reports of indivible. Concord ebbe Wellfleet Boston (Fens) P.I. Burlington Westport October Mt. MNWS d Flycatcher Cuttyhunk Quabbin Pk Westport yarmouth Concord ebird Yarmouth Concord ebird P.I. Cuttyhunk Vireo | 1 5 3 4 4 4 5 5 1 1 . fron 4 2, 1 2 2 1 4 4 1 1 1 1 1 1 2 2 6 6 | BBC (I. Giriunas) I. Davies B. Zajda R. Heil J. Forbes S. Woodard J. Trimble 17 locations R. Heil M. Rines L. Hale BBC (R. Stymeist) R. Schain R. Heil M. Rines P. Champlin E. Neumuth D. Noble I. Davies# L. Therrien P. Champlin P. Crosson# D. Sibley + v.o. R. Heil I. Davies |

| 10/19 | Nantucket | 2 | V. Laux# | 9/29 | Hadley | 1 | B. Zajda |
|----------------------|-----------------------|-------|----------------------------|----------------------|-------------------------|--------|-------------------------|
| 10/21 | Manomet | 1 b | T. Lloyd-Evans# | Cliff Swallo | | 1 | Т С., ., 1, |
| Yellow-throa 9/13 | Ware R. IBA | 5 | M Lynch# | 9/7 9/14 | Gay Head Mt. Watatic | 1 2 | T. Spahr# T. Pirro |
| 9/14, 28 | Cuttyhunk | 2, 2 | M. Lynch# I. Davies# | 9/22 | Wayland | 1 | J. Forbes |
| 9/16 | Gloucester (E.I | | J. Nelson | 9/22 | W. Roxbury (M | | M. Iliff |
| 9/29 | Southwick | 1 | S. Kellogg | Barn Swallo | | ., . | 141. 11111 |
| Blue-headed | | • | 5.11011055 | 9/1 | Quabog IBA | 43 | M. Lynch# |
| 9/14 | Woburn | 1 | M. Rines | 9/2 | Sterling Peat | 11 | M. Lynch# |
| 9/17 | P.I. | 2 | R. Heil | 10/14 | Truro | 2 | L. Waters |
| 9/19 | Ware R. IBA | 11 | M. Lynch# | 10/22 | Concord | 1 | C. Gras |
| 9/28 | Cuttyhunk | 6 | I. Davies# | Red-breasted | d Nuthatch | | |
| 10/8 | Waltham | 4 | J. Forbes | 9/5 | Ware R. IBA | 10 | M. Lynch# |
| 10/19 | Nantucket | 24 | V. Laux# | 9/14 | Wellfleet | 18 | BBC (R. Stymeist) |
| Warbling Vii | | | | 9/19 | Arlington | 3 | K. Hartel |
| 9/9 | Cambr. (F.P.) | 10 | R. Stymeist# | Brown Cree | | | |
| 9/12 | Woburn (HP) | 4 | M. Rines | 9/17 | Ware R. IBA | 4 | M. Lynch# |
| 9/19 | P.I. | 5 | T. Wetmore | 9/26 | P.I. | 3 | D. Chickering |
| 10/2 | Gloucester | 3 | B. Harris# | 10/19 | Westport | 3 | P. Champlin |
| Philadelphia | | 2 | J. Smith | 10/30 Carolina Wr | Nantucket | 6 | V. Laux |
| 9/6 9/12 | Gill Cambr. (Daneh | | T. Spahr | 9/3 | | 8 | M. Rines |
| 9/15 | P'town | | BBC (R. Stymeist) | 9/14 | Lexington Cuttyhunk | 51 | I. Davies# |
| 9/17 | P.I. | 18 | R. Heil | 9/14 | Wellfleet | 15 | BBC (R. Stymeist) |
| 9/20 | Wellfleet | 3 | M. Keleher | 9/21 | Braintree | 8 | G. d'Entremont# |
| 9/23 | Sharon | 2 | L. Waters | 10/19 | Falmouth | 24 | M. Keleher |
| 9/25 | Northampton | 2 | B. Zajda | 10/20 | S. Dart. (A.Pd) | 8 | BBC (N. Paulson) |
| Red-eyed Vi | ren | | D. Zajda | House Wren | | O | DDC (14. 1 autson) |
| 9/5 | Ware R. IBA | 21 | M. Lynch# | 9/17 | Ware R. IBA | 9 | M. Lynch# |
| 9/5 | Manomet | 11 b | | 9/27 | Lexington | 12 | M. Rines |
| 9/17 | P.I. | 26 | R. Heil | 9/28 | Cuttyhunk | 7 | I. Davies# |
| 9/28 | Cuttyhunk | 32 | I. Davies# | 10/1 | Westboro | 6 | T. Spahr |
| 10/19 | Lexington | 2 | M. Rines# | 10/6 | Cumb. Farms | 7 | SSBC |
| 10/28 | Medford | 1 | R. LaFontaine | 10/27 | Newton | 1 | H. Miller |
| Fish Crow | | | | Winter Wren | | | |
| 9/2 | Hadley | 2 | S. Surner | 9/21 | Petersham | 2 | M. Lynch# |
| 9/4 | Northampton | 2 | T. Gagnon | 10/5 | Becket | 3 | R. Laubach |
| 9/21 | Braintree | 16 | G. d'Entremont# | 10/28 | Winchester | 2 | M. Rines |
| 10/21 | Mattapan (BNO | | P. Peterson | Sedge Wren | 1 | | |
| 10/25 | Wellfleet | 35 | M. Faherty | 9/26 | Northampton | 1 | D. McLain |
| Common Ra | | | | Marsh Wren | | | |
| 9/14 | Mt. Watatic | 8 | T. Pirro | 9/2 | Bolton Flats | 4 | M. Lynch# |
| 9/15 | Quabog IBA | 3 | M. Lynch# | 9/16 | GMNWR | 8 | A. Bragg# |
| 9/25 | Mt. Wachusett | 15 | S. Olson | 9/16 | P.I. | 12 | R. Heil |
| 10/5 | Sudbury | 3 | MAS (K. Dia) | 9/29 | Lenox | 6 | P. Crossen |
| 10/26 | P.I. | 3 | M. Goetschkes | 9/30 | GMNWR | 5 | K. Dia# |
| Horned Lark | | 10 | M I | 10/5 | MNWS | 2 | M. Sabourin |
| 9/3 | Northampton | 10 | M. Lynch# | Blue-gray G | | 2 | DDC (D. Ctaura sint) |
| 9/17 9/25 | Plymouth B. | 3 | S. van der Veen | 9/14 9/19 | Wellfleet | 2 | BBC (R. Stymeist) |
| 10/27 | Newbury Duxbury B. | 9 | MAS (B. Gette) R. Bowes | 10/1 | Sudbury DFWS | 1 1 | M. Clegg P. Sowizral |
| 10/27 | Wachusett Res | | M. Lynch# | 10/1 | Nantucket | 1 | J. Trimble |
| Tree Swallov | | . 2 | Wi. Lyπcπ | | vned Kinglet | 1 | J. Hillioic |
| 9/1 | Hadley | 250 | B. Zajda# | 9/25 | Mt.A. | 7 | M. Sabourin |
| 9/9 | | 0,000 | D. Chickering# | 9/26 | P.I. | 16 | P. + F. Vale |
| 9/11 | Nantucket | 3000 | V. Laux# | 10/2 | Gloucester | 65 | B. Harris# |
| 9/14 | Cuttyhunk | 1400 | I. Davies# | 10/19 | Westport | 24 | P. Champlin |
| 9/15 | Truro | | BBC (R. Stymeist) | 10/28 | S. Peabody | 11 | R. Heil |
| 9/17 | P.I. | 3500 | R. Heil | 10/30 | Nantucket | 30 | V. Laux |
| 10/6 | Duxbury B. | 2400 | R. Bowes | Ruby-crown | | | |
| 10/28 | Westport | 28 | M. Lynch# | 9/29 | Quabog IBA | 16 | M. Lynch# |
| | ugh-winged Swal | | , | 10/3 | Mt.A. | 11 | M. Sabourin |
| 9/18 | Concord | 3 | S. Perkins | 10/5 | Groton | 30 | T. Murray |
| 9/22 | Waltham | 5 | J. Forbes | 10/19 | Lexington | 12 | M. Rines# |
| 9/22 | Wayland | 10 | J. Forbes | 10/19 | Westport | 24 | P. Champlin |
| 10/9 | GMNWR | 2 | S. Perkins | 10/28 | S. Peabody | 12 | R. Ĥeil |
| Bank Swallo | | | | 10/30 | Nantucket | 12 | V. Laux |
| 9/2 | Hadley | 850 | S. Surner | Eastern Blue | | | |
| 9/7 | Southwick | 400 | S. Kellogg | 9/9 | Falmouth | 33 | K. Fiske |
| 9/22 | Wayland | 5 | J. Forbes | 9/14 | Easthampton | 45 | B. Zajda |
| | | | | | | | |

| Eastern Dless | h:d (d) | | | 10/29 | A | 40 | M. T |
|--------------------|----------------------------|-----------|-------------------------------|----------------------|-----------------------|---------------|--------------------------|
| 10/17 | ebird (continued) Dover | 50 | B. Cassie | 10/28 10/28 | Acoaxet Dorchester | 40 1 | M. Lynch# R. Donovan# |
| Veery | Dovei | 30 | D. Cassie | 10/28 | October Mt. | 12 | E. Neumuth |
| 9/5 | Ware R. IBA | 2 | M. Lynch# | Ovenbird | Octobel Mi. | 12 | E. Neumum |
| 9/7 | Gay Head | 2 | T. Spahr# | 9/5 | Ware R. IBA | 8 | M. Lynch# |
| 9/12 | Westboro | $\bar{2}$ | N. Paulson | 9/23 | Westport | 3 | P. Champlin |
| 9/15 | Westport | 5 | P. Champlin | 10/4 | Melrose | 1 | D. + I. Jewell |
| 9/28 | Cuttyhunk | 2 | I. Davies# | 10/8 | Boston (F.Pk) | 1 | J. Young |
| | d/Bicknell's Thrus | sh | | Northern W | | | |
| 9/15 | Westport | 4 | P. Champlin | 9/10 | Revere B. | 2 | P. Peterson |
| 9/16 | Belchertown | 2 | L. Therrien | 9/16 | Woburn (HP) | 2 | M. Rines |
| 10/13 | Ware R. IBA | 1 | M. Lynch# | 9/16 | P.I. | 5 | R. Heil |
| Swainson's 7 | | | | 9/20 | Wellfleet | 3 | M. Keleher |
| 9/14 | Sudbury | 35 | T. Spahr | 9/28 | Cuttyhunk | 3 | I. Davies |
| 9/15 | S. Quabbin | 6 | L. Therrien | 10/1 | Westport | 2 | P. Champlin |
| 9/16 | P.I. | 4 | R. Heil | 10/1 | Winchester | 2 | J. Kovner# |
| 9/23 | Wayland | 12 | J. Hoye# | | iged Warbler | | |
| 10/5 | Gill | 5 | J. Smith | 10/9 | Manomet | 1 b | T. Lloyd-Evans# |
| 10/20 | Florida | 1 | R. Laubach | Blue-winge | | | |
| Hermit Thru | | | | 9/7 | Lexington | 1 | M. Rines |
| 10/13 | Ware R. IBA | 51 | M. Lynch# | 9/9 | Waltham | 1 | J. Forbes |
| 10/14 | S. Quabbin | 7 | L. Therrien | 9/20 | Boston (A.A.) | 1 | P. Peterson |
| 10/19 | P.I. | 7 | R. Stymeist | 9/20 | P.I. | 1 | T. Wetmore |
| 10/27 | Woburn | 16 | M. Rines | 9/20 | Newton | 1 | H. Miller |
| 10/28 | Boston (Fens) | 16 | P. Peterson | | white Warbler | | M. D. |
| 10/28 | S. Peabody | 22 | R. Heil | 9/3 | Lexington | 6 | M. Rines |
| Wood Thrusl | | _ | T . TT1 | 9/5 | Ware R. IBA | 11 | M. Lynch# |
| 9/14 | Amherst | 5 3 | L. Therrien | 9/21 | Petersham | 7 | M. Lynch# |
| 10/5 | Groton | 3 1 | T. Murray | 9/21 | Braintree | 6 | G. d'Entremont# |
| 10/9 | Gill Sharon | 1 | J. Smith V. Zollo | 9/26 | P.I. | 8 1 | D. Chickering |
| 10/16 10/16 | Woburn | 1 | M. Rines | 10/11 Tennessee V | Boston (Fens) | 1 | R. Schain |
| Gray Cathird | | 1 | IVI. KIIICS | 9/13 | Ware R. IBA | 2 | M. Lynch# |
| 9/3 | P.I. | 106 | R. Heil | 9/17 | P.I. | 2 | R. Heil |
| 9/13 | Ware R. IBA | 48 | M. Lynch# | 9/17 | Boston (PG) | $\frac{2}{2}$ | T. Factor |
| 9/28 | Nantucket | 70 | V. Laux | 9/23 | Amherst | 8 | L. Therrien |
| 9/29 | Sandwich | 56 | M. Keleher | 9/28 | Cuttyhunk | 2 | I. Davies# |
| 10/6 | Cumb. Farms | 79 | SSBC | 10/3 | Paxton | 3 | R. Jenkins |
| 10/29 | Longmeadow | í | M. Moore | 10/12 | Longmeadow | 1 | G. Kingston |
| 10/31 | P.I. | 1 | P. + F. Vale | | wned Warbler | | 0 |
| Brown Thras | | | | thr | Reports of indiv | from 1 | 9 locations |
| 9/3 | P.I. | 23 | R. Heil | 9/27 | Yarmouth | 2 | P. Crosson |
| 9/20 | Hadley | 2 | L. Therrien | 10/8 | Burlington | 3 | M. Rines |
| 9/26 | P.I. | 5 | P. + F. Vale | 10/19 | Westport | 2 | P. Champlin |
| 10/20 | S. Dart. (A.Pd) | 5 | BBC (N. Paulson) | Nashville W | /arbler | | • |
| American Pi | pit | | | 9/17 | P.I. | 4 | R. Heil |
| 9/2, 10/9 | Hadley | 1, 65 | Surner, Therrien | 9/18 | Waltham | 3 | J. Forbes |
| 9/28 | Northfield | 100 | B. Zajda | 9/21 | S. Quabbin | 5 | L. Therrien |
| 10/5 | Concord | 75 | C. Winstanley | 9/23 | Amherst | 5 | L. Therrien |
| 10/9 | Newbury | 50 | MAS (B. Gette) | 9/29 | Cuttyhunk | 3 | I. Davies# |
| 10/15 | Deerfield | 98 | Z. Jakub | 10/1 | Westport | 5 | P. Champlin |
| 10/23 | P.I. | 68 | D. Adrien | 10/8 | Boston (Fens) | 3 | P. Peterson |
| 10/27 | Nantucket | 55 | K. Blackshaw | Connecticut | | C | 0.1 |
| 10/31 | Wachusett Res. | 69 | M. Lynch# | 9/1-10/13 9/16 | | | |
| Cedar Waxw 9/15 | Truro | 48 | DDC (D. Ctrimoist) | 9/10 | Northampton | 3 4 | B. Zajda M. Rines |
| 9/19 | | 60 | BBC (R. Stymeist) M. Rines | 10/2 | Lexington Westboro | 3 | |
| 9/28 | Burlington Cuttyhunk | 64 | I. Davies | Mourning V | | 3 | T. Spahr |
| 10/17 | | 63 | | 9/3 | Waltham | 1 | J. Forbes |
| Lapland Lon | Quabog IBA | 0.5 | M. Lynch# | 9/5 | Manomet | 3 b | |
| 9/16,10/2 | | 1, 3 | Heil, Wetmore | 9/11 | Belchertown | 1 | E. Dalton |
| 9/25 | Granville | 2 | J. Weeks | 9/14 | Cuttyhunk | 1 | I. Davies# |
| 10/11 | Falmouth | 5 | J. McCumber | 9/14 | Boston (PG) | 1 | T. Factor |
| 10/25 | Dorchester | 1 | R. Donovan# | 9/16 | Northampton | 1 | B. Zaida |
| 10/27 | Duxbury B. | 8 | R. Bowes | 9/16 | Gloucester (E.P. | | J. Nelson |
| 10/28 | Turners Falls | 1 | J. Smith | 9/26 | P.I. | 1 b | B. Flemer# |
| Snow Buntin | | | | 10/4 | Westport | 1 | P. Champlin |
| 10/26 | Westport | 2 | P. Champlin | Common Ye | | | 1 |
| 10/27 | P.I. | 20 | J. Berry# | 9/3 | Lexington | 32 | M. Rines |
| 10/27 | S. Quabbin | 2 | M. Lynch | 9/3 | P.I. | 25 | R. Heil |
| | | | | | | | |

| C | 1 | 15 | | 0/22 | C1 | 50 | T 337.4 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9/13 | lowthroat (continuation Ware R. IBA | nuea) 22 | M Lynch# | 9/23 10/3 | Sharon Mt.A. | 52 41 | L. Waters M. Sabourin |
| 9/13 | Sandwich | 17 | M. Lynch# M. Keleher | 10/3 | Nantucket | 65 | V. Laux# |
| 9/29 | Quabog IBA | 17 | M. Lynch# | | ted Blue Warbler | 03 | v. Lauxπ |
| 10/6 | Cumb. Farms | 20 | SSBC | 9/13 | Ware R. IBA | 6 | M. Lynch# |
| 10/8 | Westboro | 12 | T. Spahr | 9/14 | Westport | 22 | P. Champlin |
| Hooded Warl | oler | | | 9/18 | Quabbin (G10) | 5 | B. Zajda |
| 9/4 | Manomet | 1 b | T. Lloyd-Evans# | 9/26 | Waltham | 4 | J. Forbes |
| 9/7 | Gay Head | 1 | T. Spahr# | 10/4 | Wellfleet | 3 | M. Keleher |
| 9/8, 26 | Lexington | 1, 1 | V.O. | 10/19 | Nantucket | 2 | V. Laux# |
| 9/27 | Nantucket | 1 | T. Pastuszak | Palm Warble | | | |
| 9/28 | Truro | 1 | S. Arena | 9/6 | Lexington | 1 | M. Rines |
| 10/2 | MNWS | 1 | D. Noble | 9/25 | Concord | 60 | L. Hale |
| 10/4 | Manomet | 1 b | T. Lloyd-Evans# | 9/28 | Sandisfield | 66 | M. Lynch# |
| 10/5 | Dorchester Wellfleet | 1 1 | J. Taylor K. Miller# | 9/28 10/3 | Bolton Flats | 50 45 | T. Murray R. Jenkins |
| 10/5 American Re | | 1 | K. Millei# | 10/3 | Paxton Westboro | 39 | T. Spahr |
| 9/3 | P.I. | 11 | R. Heil | 10/31 | P.I. | 1 | J. Sender |
| 9/3 | Lexington | 18 | M. Rines | Pine Warble | | 1 | J. Belidei |
| | Westport | 18, 1 | P. Champlin | 9/15 | Truro | 26 | BBC (R. Stymeist) |
| 9/14 | Cuttyhunk | 21 | I. Davies | 9/17 | Ware R. IBA | 55 | M. Lynch# |
| 10/21 | Northampton | 1 | D. McLain | 9/21 | S. Quabbin | 22 | L. Therrien |
| 10/25 | Salisbury | 1 | E. Labato | 9/23 | Wellfleet | 60 | E. Orcutt |
| Cape May W | arbler | | | Yellow-rump | ped Warbler | | |
| 9/3, 9/17 | P.I. | 1, 12 | R. Heil | 9/28 | Bolton Flats | 100 | T. Murray |
| 9/4, 10/2 | Westport | 2, 8 | P. Champlin | 10/3 | Paxton | 150 | R. Jenkins |
| 9/14 | Sudbury | 3 | T. Spahr | 10/4 | Westport | 200 | P. Champlin |
| 9/23 | Amherst | 3 | L. Therrien | 10/5 | Woburn | 124 | M. Rines# |
| 10/20 | Nantucket | 2 | J. Trimble | 10/6 | Cumb. Farms | 234 | SSBC |
| Northern Par | | 7 11 | D. Cl 1' | 10/19 | Brewster | 1451 | |
| 9/4, 10/1 | Westport | 7, 11 | P. Champlin | 10/19 | Falmouth | 102 | M. Lynch# |
| 9/17 9/18 | Westboro | 7 7 | N. Paulson J. Young | 10/26 Prairie Warb | Lexington | 155 | M. Rines# |
| 9/18 | Boston (F.Pk) Waltham | 15 | J. Forbes | 9/5 | Ware R. IBA | 5 | M. Lynch# |
| 9/20 | Amherst | 26 | L. Therrien | 9/14 | Westport | 10 | P. Champlin |
| 9/21 | S. Quabbin | 18 | L. Therrien | 9/14 | Cuttyhunk | 7 | I. Davies# |
| 9/21 | Braintree | 9 | G. d'Entremont# | 9/15 | | | BBC (R. Stymeist) |
| | | | | | LTUFO | n | |
| 10/28 | | í | | | Truro Chatham | 6 | |
| 10/28 | Winchester | | R. LaFontaine | 9/21 10/27 | Chatham P.I. | 3 2 | B. Harris# |
| | Winchester | | | 9/21 10/27 | Chatham P.I. | 3 2 | |
| 10/28 Magnolia Wa 9/17 9/17 | Winchester arbler | 6 6 | R. LaFontaine | 9/21 10/27 | Chatham | 3 2 | B. Harris# N. Landry |
| 10/28 Magnolia Wa 9/17 9/17 9/23 | Winchester arbler P.I. Ware R. IBA Lexington | 1 6 6 4 | R. LaFontaine R. Heil M. Lynch# C. Floyd | 9/21 10/27 Black-throa 10/14 Black-throat | Chatham P.I. ated Gray Warble Nantucket ted Green Warbler | 3 2 r 1 | B. Harris# N. Landry oh Harris, Ernst |
| 10/28 Magnolia Wa 9/17 9/17 9/23 9/28 | Winchester arbler P.I. Ware R. IBA Lexington Cuttyhunk | 1 6 6 4 4 | R. LaFontaine R. Heil M. Lynch# C. Floyd I. Davies# | 9/21 10/27 Black-throa 10/14 Black-throat 9/7 | Chatham P.I. ated Gray Warble Nantucket ted Green Warbler P.I. | 3 2 r 10 | B. Harris# N. Landry The Harris, Ernst D. Adrien |
| 10/28 Magnolia Wa 9/17 9/17 9/23 9/28 10/18 | Winchester irbler P.I. Ware R. IBA Lexington Cuttyhunk Longmeadow | 1 6 6 4 4 1 A | R. LaFontaine R. Heil M. Lynch# C. Floyd I. Davies# & L. Richardson | 9/21 10/27 Black-throa 10/14 Black-throat 9/7 9/16 | Chatham P.I. ated Gray Warble Nantucket ted Green Warbler P.I. Northampton | 3 2 r 1 ₁ 10 10 | B. Harris# N. Landry oh Harris, Ernst D. Adrien B. Zajda |
| 10/28 Magnolia Wa 9/17 9/17 9/23 9/28 10/18 10/19 | Winchester rbler P.I. Ware R. IBA Lexington Cuttyhunk Longmeadow Nantucket | 1 6 6 4 4 | R. LaFontaine R. Heil M. Lynch# C. Floyd I. Davies# | 9/21 10/27 Black-throa 10/14 Black-throat 9/7 9/16 9/17 | Chatham P.I. ated Gray Warblet Nantucket ted Green Warbler P.I. Northampton Ware R. IBA | 3 2 r 10 10 10 18 | B. Harris# N. Landry oh Harris, Ernst D. Adrien B. Zajda M. Lynch# |
| 10/28 Magnolia Wa 9/17 9/17 9/23 9/28 10/18 10/19 Bay-breasted | Winchester rbler P.I. Ware R. IBA Lexington Cuttyhunk Longmeadow Nantucket Warbler | 1 6 6 4 4 1 A | R. LaFontaine R. Heil M. Lynch# C. Floyd I. Davies# . & L. Richardson V. Laux# | 9/21 10/27 Black-throa 10/14 Black-throat 9/7 9/16 9/17 9/23 | Chatham P.I. ated Gray Warblet Nantucket ted Green Warbler P.I. Northampton Ware R. IBA Amherst | 3 2 r 10 10 18 31 | B. Harris# N. Landry h Harris, Ernst D. Adrien B. Zajda M. Lynch# L. Therrien |
| 10/28 Magnolia Wa 9/17 9/17 9/23 9/28 10/18 10/19 Bay-breasted 9/5 | Winchester rbler P.I. Ware R. IBA Lexington Cuttyhunk Longmeadow Nantucket Warbler Concord | 1 6 6 4 4 1 1 1 | R. LaFontaine R. Heil M. Lynch# C. Floyd I. Davies# . & L. Richardson V. Laux# C. Winstanley# | 9/21 10/27 Black-throa 10/14 Black-throat 9/7 9/16 9/17 9/23 9/25 | Chatham P.I. ated Gray Warblet Nantucket ted Green Warbler P.I. Northampton Ware R. IBA Amherst Sterling | 3 2 r 11 10 10 18 31 30 | B. Harris# N. Landry The Harris, Ernst D. Adrien B. Zajda M. Lynch# L. Therrien M. Lynch# |
| 10/28 Magnolia Wa 9/17 9/17 9/23 9/28 10/18 10/19 Bay-breasted 9/5 9/6 | Winchester rbler P.I. Ware R. IBA Lexington Cuttyhunk Longmeadow Nantucket Warbler Concord Amherst | 1 6 6 4 4 1 A 1 | R. LaFontaine R. Heil M. Lynch# C. Floyd I. Davies# . & L. Richardson V. Laux# C. Winstanley# L. Therrien | 9/21 10/27 Black-throa 10/14 Black-throat 9/7 9/16 9/17 9/23 9/25 10/19 | Chatham P.I. ated Gray Warbler Nantucket ted Green Warbler P.I. Northampton Ware R. IBA Amherst Sterling Milton | 3 2 r 10 10 10 18 31 30 3 | B. Harris# N. Landry h Harris, Ernst D. Adrien B. Zajda M. Lynch# L. Therrien M. Lynch# L. Eyster |
| 10/28 Magnolia Wa 9/17 9/17 9/23 9/28 10/18 10/19 Bay-breasted 9/5 9/6 9/17 | Winchester rbler P.I. Ware R. IBA Lexington Cuttyhunk Longmeadow Nantucket Warbler Concord Amherst Westboro | 1 6 6 4 1 1 3 3 2 | R. LaFontaine R. Heil M. Lynch# C. Floyd I. Davies# . & L. Richardson V. Laux# C. Winstanley# L. Therrien N. Paulson | 9/21 10/27 Black-throa 10/14 Black-throat 9/7 9/16 9/17 9/23 9/25 10/19 10/29 | Chatham P.I. atted Gray Warblet Nantucket ted Green Warbler P.I. Northampton Ware R. IBA Amherst Sterling Milton Harwich | 3 2 r 11 10 10 18 31 30 | B. Harris# N. Landry The Harris, Ernst D. Adrien B. Zajda M. Lynch# L. Therrien M. Lynch# |
| 10/28 Magnolia Wa 9/17 9/17 9/23 9/28 10/18 10/19 Bay-breasted 9/5 9/6 9/17 9/18 | Winchester urbler P.I. Ware R. IBA Lexington Cuttyhunk Longmeadow Nantucket Warbler Concord Amherst Westboro P.I. | 1 6 6 4 1 1 3 3 2 2 | R. LaFontaine R. Heil M. Lynch# C. Floyd I. Davies# . & L. Richardson V. Laux# C. Winstanley# L. Therrien N. Paulson D. Chickering | 9/21 10/27 Black-throa 10/14 Black-throat 9/7 9/16 9/17 9/23 9/25 10/19 10/29 Canada Ward | Chatham P.I. ated Gray Warbler Nantucket ted Green Warbler P.I. Northampton Ware R. IBA Amherst Sterling Milton Harwich | 3 2 1 10 10 18 31 30 3 1 | B. Harris# N. Landry h Harris, Ernst D. Adrien B. Zajda M. Lynch# L. Therrien M. Lynch# L. Eyster P. Kyle |
| 10/28 Magnolia Wa 9/17 9/17 9/23 9/28 10/18 10/19 Bay-breasted 9/5 9/6 9/17 9/18 9/23 | Winchester urbler P.I. Ware R. IBA Lexington Cuttyhunk Longmeadow Nantucket Warbler Concord Amherst Westboro P.I. Amherst | 1 6 6 4 1 1 3 3 2 | R. LaFontaine R. Heil M. Lynch# C. Floyd I. Davies# . & L. Richardson V. Laux# C. Winstanley# L. Therrien N. Paulson | 9/21 10/27 Black-throat 10/14 Black-throat 9/7 9/16 9/17 9/23 9/25 10/19 10/29 Canada Warl 9/thr | Chatham P.I. ated Gray Warbler Nantucket ted Green Warbler P.I. Northampton Ware R. IBA Amherst Sterling Milton Harwich bler Reports of indiv | 3 2 1 10 10 18 31 30 3 1 | B. Harris# N. Landry h Harris, Ernst D. Adrien B. Zajda M. Lynch# L. Therrien M. Lynch# L. Eyster P. Kyle |
| 10/28 Magnolia Wa 9/17 9/17 9/23 9/28 10/18 10/19 Bay-breasted 9/5 9/6 9/17 9/18 | Winchester urbler P.I. Ware R. IBA Lexington Cuttyhunk Longmeadow Nantucket Warbler Concord Amherst Westboro P.I. Amherst | 1 6 6 4 4 1 A 1 3 3 2 2 2 3 | R. LaFontaine R. Heil M. Lynch# C. Floyd I. Davies# . & L. Richardson V. Laux# C. Winstanley# L. Therrien N. Paulson D. Chickering | 9/21 10/27 Black-throa 10/14 Black-throat 9/7 9/16 9/17 9/23 9/25 10/19 10/29 Canada Ward | Chatham P.I. Atted Gray Warbler Nantucket ted Green Warbler P.I. Northampton Ware R. IBA Amherst Sterling Milton Harwich bler Reports of indiv Duxbury B. | 3 2 r 10 10 10 18 31 30 3 1 | B. Harris# N. Landry h Harris, Ernst D. Adrien B. Zajda M. Lynch# L. Therrien M. Lynch# L. Eyster P. Kyle |
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|--------------------------------|------------------------------|------------|-------------------------------|-----------------------|-------------------------|------------|----------------------------|
| | ree Sparrow (contin | | D 14:11 | 9/29 | Hadley | 14 | B. Zajda |
| 10/29 | Cambr. (F.P.) | 1 | B. Miller | 10/3 | Bolton Flats | 9 | M. Lynch# |
| 10/31 | GMNWR | 2 | A. Bragg# | 10/3 | Paxton | 6 | R. Jenkins |
| Chipping Sp 9/14 | Wellfleet | 105 | DDC (D. Strimoist) | 10/6 | Cumb. Farms | 12 | SSBC |
| 9/14 | Northfield | 120 | BBC (R. Stymeist) B. Zajda | Swamp Spar 9/29 | Quabog IBA | 89 | M. Lynch# |
| 10/3 | Paxton | 175 | R. Jenkins | 10/2 | Lexington | 75 | M. Rines |
| Clay-colored | | 175 | IX. JUIKINS | 10/2 | Bolton Flats | 296 | M. Lynch# |
| thr | Reports of indiv | from | 24 locations | 10/6 | Cumb. Farms | 894 | SSBC |
| 9/20 | W. Roxbury (M | | M. Iliff | 10/8 | Westboro | 89 | T. Spahr |
| 9/24 | Duxbury B. | 2 | R. Bowes | White-throat | | | ~ F |
| 10/1 | Westport | 2 | P. Champlin | 9/17 | Ware R. IBA | 3 | M. Lynch# |
| 10/19 | Nantucket | 14 | V. Laux# | 9/17 | P.I. | 2 | Ř. Heil |
| Field Sparro | W | | | 10/8 | Westboro | 44 | T. Spahr |
| 9/14 | Wellfleet | 5 | BBC (R. Stymeist) | 10/11 | Lexington | 35 | C. Čook |
| 9/15 | Quabog IBA | 6 | M. Lynch# | 10/15 | Ipswich | 35 | R. Heil |
| 9/23 | Sharon | 16 | L. Waters | 10/25 | Malden | 30 | P. + F. Vale |
| 10/19 | Nantucket | 8 | V. Laux# | 10/27 | Quabog IBA | 152 | M. Lynch# |
| 10/24 | Mattapan (BNC | | P. Peterson | White-crown | | | 34.7. 1.0 |
| 10/28 | Westport | 11 | M. Lynch# | 9/29 | Quabog IBA | 6 | M. Lynch# |
| 10/28 | S. Peabody | 10 | R. Heil | 10/3 | Paxton | 6 18 | R. Jenkins |
| Vesper Sparr 10/9 | Hadley | 9 | I. Davies | 10/4 10/6 | Uxbridge Hadley | 18 | J. Lawson S. Surner |
| 10/19 | Nantucket | 2 | V. Laux# | 10/6 | New Braintree | 7 | R. Jenkins# |
| 10/19 | Belmont | 2 | J. Forbes | 10/6 | Cumb. Farms | 13 | SSBC |
| 10/21 | Concord | 3 | D. Sibley | 10/8 | Westboro | 7 | T. Spahr |
| Lark Sparrov | | 3 | D. Bibley | 10/18 | Concord | 15 | M. Rines |
| 9/2 | Neponset | 1 | R. Donovan | 10/27 | Nantucket | 6 | K. Blackshaw# |
| 9/10 | P.I. | 1 | D. Chickering | Dark-eyed J | | | |
| 9/16 | S. Monomoy | 1 | S. Grinley# | 9/3 | Mt. Wachusett | 1 | S. Olson |
| 9/17 | Nantucket | 1 | V. Laux | 10/24 | Malden | 65 | P. + F. Vale |
| 9/21 | Eastham | 1 | C. Goodrich | 10/24 | Cambr. (Daneh | y) 44 | K. Hartel |
| 10/1 | Westport | 1 | P. Champlin | 10/26 | Wachusett Res. | . 241 | M. Lynch# |
| 10/30 | Marblehead | 1 | D. Noble | 10/28 | S. Peabody | 80 | R. Heil |
| Savannah Sp | | | | Scarlet Tana | | _ | |
| 9/26 | Hadley | 70 | B. Zajda | 9/3 | Worcester | 5 | M. Lynch# |
| 10/2 | Newbury | 85 | J. Berry# | 9/15 | Quabbin Pk | 5 | L. Therrien |
| 10/4 | Wrentham | 102 | J. Sweeney | 9/23 | Lexington | 3 | J. Forbes# |
| 10/5 | Concord | 70 | C. Winstanley | 9/28 | Cuttyhunk | 2 2 | I. Davies# |
| 10/6 10/6 | New Braintree Cumb. Farms | 245 246 | R. Jenkins# | 10/3 10/28 | Worcester Winchester | 1 f | M. Lynch# R. LaFontaine |
| Ipswich Spar | | 240 | SSBC | Western Ta | | 1 1 | K. Larontaine |
| 10/16 | Salisbury | 2 | S. Sullivan | 10/9 | Chatham | 1 ph | A. Fulcher |
| 10/18 | Westport | 3 | P. Champlin | Rose-breaste | | 1 pii | 71. I diction |
| 10/20 | Duxbury B. | 1 | R. Bowes | 9/1 | Quabog IBA | 5 | M. Lynch# |
| 10/30 | Dorchester | 1 | R. Donovan | 9/4 | Westport | 5 | P. Champlin |
| 10/31 | P.I. | 2 | P. + F. Vale | 9/9 | Lexington | 5 | O. Burton |
| Grasshopper | Sparrow | | | 10/5 | Eastham | 1 | SSBC (GdE) |
| 9/7 | Hadley | 1 | L. Therrien | 10/17 | Longmeadow | 1 | M. Moore |
| 9/26 | Easthampton | 1 | L. Therrien | Blue Grosbe | ak | | |
| 10/19 | Lexington | 1 | M. Rines# | 9/17 | P.I. | 1 | R. Heil |
| 10/26 | Newton | 1 | M. Kaufman | 10/1 | Westport | 1 | P. Champlin |
| 10/28 | Dorchester | 1 | R. Donovan# | 10/6 | Cumb. Farms | 2 | SSBC |
| Nelson's Spa | | | D 7.11. | 10/7 | Falmouth | 1 | G. Hirth |
| 9/26 | Hadley | 1 | B. Zajda | 10/21 | Lexington | 1 | J. Forbes |
| 10/4 10/17 | Falmouth | 2 | G. Hirth | 10/24 | Cambr. (Daneh | ıy) 1 1 | R. Stymeist# |
| 10/17 | Fairhaven S. Dart. (A.Pd) | 1 | J. Hoye# BBC (N. Paulson) | 10/28 Lazuli/Indig | Boston (Fens) | 1 | A. Morgan |
| 10/20 | Squantum | 1 | R. Donovan | 9/15 | Cuttyhunk | 1 ph | I. Davies# |
| 10/25 | P.I. | 2 | T. Wetmore | 10/2 | Hadley | 1 | I. Davies# |
| 10/26 | Winchester | 1 | A. Gurka + v.o. | Indigo Bunti | ing | • | 1. 24.100 |
| Saltmarsh Sp | | | | 9/17 | Westboro | 10 | N. Paulson |
| 9/24 | P.I. | 2 | R. Heil | 9/20 | Northampton | 35 | D. McLain |
| 10/3 | Dorchester | 1 | R. Donovan | 9/24 | Woburn | 14 | M. Rines |
| 10/18 | Boston | 1 | E. Labato | 9/28 | Cuttyhunk | 12 | I. Davies |
| 10/27 | Fairhaven | 1 | C. Longworth# | 10/6 | Cumb. Farms | 22 | SSBC |
| Fox Sparrow | | | | Dickcissel | | | |
| | | | | | | | |
| 10/19 | Lexington | 1 | M. Rines# | thr | Reports of indi | | |
| 10/19 10/24 | Lexington Woburn | 1 2 | M. Rines# M. Rines | 9/14 | Wellfleet | 2 | M. Keleher |
| 10/19 10/24 Lincoln's Sp | Lexington Woburn arrow | 2 | M. Rines | 9/14 9/16 | Wêllfleet P.I. | 2 2 | M. Keleher R. Heil |
| 10/19 10/24 | Lexington Woburn | | | 9/14 | Wellfleet | 2 | M. Keleher |

| Dickcissel (d | continued) | | | 10/26 | Cheshire | 20 | S. Kellogg |
|---------------|-----------------|------|----------------|--------------|---------------|-----|----------------|
| 10/9 | Hadley | 2 | L. Therrien | 10/28 | Granville | 20 | D. McLain |
| Bobolink | • | | | Orchard Ori | ole | | |
| 9/1 | Northampton | 1239 | T. Gagnon | 9/15 | Nantucket | 1 | V. Laux |
| 9/5 | Hadley | 120 | L. Therrien | Baltimore O | riole | | |
| 9/25 | Newbury | 50 | MAS (B. Gette) | 9/3 | P.I. | 6 | R. Heil |
| 10/1 | Bolton Flats | 60 | J. Moosbruker | 9/4 | Westport | 5 | P. Champlin |
| 10/6 | Cumb. Farms | 82 | SSBC | 9/29 | Cuttyhunk | 3 | I. Davies# |
| 10/18 | Arlington Res. | 10 | K. Hartel | 10/7 | Wellfleet | 2 | M. Keleher# |
| 10/23 | Aquinnah | 1 | R. Schain | 10/22 | Brewster | 2 b | S. Finnegan |
| Eastern Mea | dowlark | | | Pine Grosbe | ak | | _ |
| 9/2 | Sterling Peat | 1 | M. Lynch# | 10/5 | Windsor | 3 | E. Lewis |
| 10/7 | Belmont | 1 | J. Forbes | Purple Finch | h | | |
| 10/22 | GMNWR | 1 | D. Sibley | 9/3 | P.I. | 14 | R. Heil |
| 10/25 | Ipswich | 2 | J. Berry# | 9/28 | Sandisfield | 4 | M. Lynch# |
| 10/26 | Dorchester | 3 | R. Donovan# | 10/27 | S. Quabbin | 55 | M. Lynch |
| 10/26 | Eastham (F.H.) | 10 | B. Lagasse# | 10/31 | Washington | 10 | E. Neumuth |
| 10/27 | S. Dart. (A.Pd) | 21 | B. Cassie | Pine Siskin | | | |
| 10/28 | P.I. | 3 | T. Wetmore | 9/8 | Merrimac | 1 | B. + B. Buxton |
| Yellow-head | led Blackbird | | | 9/12 | Westboro | 2 | N. Paulson |
| 9/15 | Cuttyhunk | 1 | I. Davies# | 9/26 | Gloucester | 1 | J. Nelson |
| Rusty Black | bird | | | 10/3 | Carlisle | 1 | A. Ankers |
| 9/28 | Northfield | 12 | B. Zajda | 10/21 | Belchertown | 3 | L. Therrien |
| 9/30 | Concord | 18 | S. Perkins | 10/21 | Cambr. (F.P.) | 1 | J. Trimble |
| 10/1 | Milton | 26 | R. Mussey | Evening Gro | osbeak | | |
| 10/12 | Greenfield | 25 | T. Bullock | 9/6 | Gill | 1 | J. Smith |
| 10/22 | Wayland | 74 | B. Harris | | | | |



SNOWY OWL BY DAVID M. LARSON

ABBREVIATIONS FOR BIRD SIGHTINGS

Taxonomic order is based on AOU checklist, Seventh edition, up to the 53rd Supplement, as published in *Auk* 129 (3): 573-88 (2012) (see http://checklist.aou.org/).

| Locations | | ONWR Oxbow National Wildlife Refuge |
|-------------|---------------------------------------|---------------------------------------------------|
| Location-# | MAC Proading Dird Atles Pleak | |
| | MAS Breeding Bird Atlas Block | |
| A.A. | Arnold Arboretum, Boston | P.I. Plum Island |
| ABC | Allen Bird Club | Pd Pond |
| A.P. | Andrews Point, Rockport | POP Point of Pines, Revere |
| A.Pd | Allens Pond, S. Dartmouth | PR Pinnacle Rock, Malden |
| В. | Beach | P'town Provincetown |
| Barre F.D. | Barre Falls Dam | Pont. Pontoosuc Lake, Lanesboro |
| B.I. | Belle Isle, E. Boston | R.P. Race Point, Provincetown |
| B.R. | Bass Rocks, Gloucester | Res. Reservoir |
| BBC | Brookline Bird Club | RKG Rose Kennedy Greenway, Boston |
| BMB | Broad Meadow Brook, Worcester | S.B. South Beach, Chatham |
| BNC | Boston Nature Center, Mattapan | S.N. Sandy Neck, Barnstable |
| C.B. | Crane Beach, Ipswich | SRV Sudbury River Valley |
| CGB | Coast Guard Beach, Eastham | SSBC South Shore Bird Club |
| C.P. | Crooked Pond, Boxford | TASL Take A Second Look, Boston Harbor Census |
| Cambr. | Cambridge | WBWS Wellfleet Bay WS |
| CCBC | Cape Cod Bird Club | WE World's End, Hingham |
| Corp. B. | Corporation Beach, Dennis | WMWS Wachusett Meadow WS |
| Cumb. Farms | Cumberland Farms, Middleboro | Wompatuck SP Hingham, Cohasset, Scituate, Norwell |
| DFWS | | |
| | Drumlin Farm Wildlife Sanctuary | Worc. Worcester |
| DWMA | Delaney WMA, Stow, Bolton, Harvard | Other Althous Selferes |
| DWWS | Daniel Webster WS | Other Abbreviations |
| E.P. | Eastern Point, Gloucester | ad adult |
| F.E. | First Encounter Beach, Eastham | b banded |
| F.H. | Fort Hill, Eastham | br breeding |
| F.P. | Fresh Pond, Cambridge | dk dark (morph) |
| F.Pk | Franklin Park, Boston | f female |
| G40 | Gate 40, Quabbin Res. | fide on the authority of |
| GMNWR | Great Meadows NWR | fl fledgling |
| Н. | Harbor | imm immature |
| H.P. | Halibut Point, Rockport | juv juvenile |
| HP | Horn Pond, Woburn | lt light (morph) |
| HRWMA | High Ridge WMA, Gardner | m male |
| I. | Island | max maximum |
| IRWS | Ipswich River WS | migr migrating |
| L. | Ledge | n nesting |
| MAS | Mass Audubon | ph photographed |
| MP | Millennium Park, W. Roxbury | pl plumage |
| M.V. | Martha's Vineyard | pr pair |
| MBWMA | Martin Burns WMA, Newbury | S summer $(1S = 1st summer)$ |
| MNWS | Marblehead Neck WS | v.o. various observers |
| MSSF | Myles Standish State Forest, Plymouth | W winter (2W = second winter) |
| Mt.A. | Mount Auburn Cemetery, Cambr. | yg young |
| NAC | Nine Acre Corner, Concord | # additional observers |
| Newbypt | Newburyport | " additional observers |
| 110WOypt | 110 Woul y port | |

HOW TO CONTRIBUTE BIRD SIGHTINGS TO BIRD OBSERVER

Sightings for any given month must be reported in writing by the eighth of the following month, and may be submitted by postal mail or email. Send written reports to Bird Sightings, Robert H. Stymeist, 36 Lewis Avenue, Arlington MA 02474-3206. Include name and phone number of observer, common name of species, date of sighting, location, number of birds, other observer(s), and information on age, sex, and morph (where relevant). For instructions on email submission, visit: http://massbird.org/birdobserver/sightings/>.

Species on the Review List of the Massachusetts Avian Records Committee, as well as species unusual as to place, time, or known nesting status in Massachusetts, should be reported promptly to the Massachusetts Avian Records Committee, c/o Matt Garvey, 137 Beaconsfield Rd. #5, Brookline MA 02445, or by email to <mattpgarvey@gmail.com>.

ABOUT THE COVER

Horned Lark

The Horned Lark (*Eremophila alpestris*), a denizen of open country, is the only member of the lark family (Alaudidae) native to North America, with a broad distribution from the Arctic to southern Mexico. It is also found in northern Eurasia. Males are brown above and white below; a boldly-marked head pattern of white or yellow contrasts with a black mask, breast band, and horns, which are tiny tufts of feathers. Females have similar but muted coloration and less prominent horns. Both have dark tails with a pale central stripe and narrow white edges. Juveniles are mostly grayish brown, with only a hint of the striking facial pattern of adults.

This highly variable species is divided into 21 subspecies in North America alone. The amount of yellow on the lark's face varies with geographic location, as does the intensity of the brown upperparts, which in some subspecies is a rich chestnut. There is a strong correlation between the color of the birds' upperparts and the soil composition of the subspecies' range. For example, the subspecies of the western deserts are generally paler than other Horned Larks.

Horned Larks breed throughout North America from the Aleutian Islands and Arctic islands to southern Mexico in habitats of sparse vegetation—typically in deserts, prairies, and farmlands. Northern populations, including most Canadian and Alaskan birds, are migratory. In winter they form large nomadic flocks, often with longspurs and Snow Buntings. The prairie subspecies of Horned Lark (*E. a. praticola*) is an uncommon breeder in Massachusetts, mostly on Cape Cod and the Islands. The larks arrive in February and leave by November. The high latitude northeastern subspecies *E. a. alpestris* is an abundant spring and fall migrant in Massachusetts, and in some years may be a common winter resident.

Horned Larks are territorial and are seasonally monogamous. Because they start breeding early, pairs may have two or more broods. They prefer to nest on barren ground, in sparse short grass, or in agricultural crop stubble. They give call notes described as *weet* or *su-weet*, and various chittering notes year-round. In winter, these act as contact calls and may help ensure flock cohesiveness. In breeding season, the calls intensify and are used in territorial disputes. Territorial conflicts involve chasing and may end in a fight—with clawing and pecking—either in the air or on the ground. In threat displays the male stands erect while calling, then runs at the intruder. Song consists of several ascending notes followed by chittering, which males may sing while gliding with spread wings and tail during a high aerial flight. They give a variation while flying with slow exaggerated wing beats. Males also sing from perches. In courtship display, males droop their wings and spread their tails, chittering and strutting with wings vibrating and the black chest patch spread.

The female selects the nest site, usually on bare ground or an agricultural field, digs a scrape, and weaves a nest of plant material that she lines with feathers, rootlets, or fur. She may construct a paying of cow dung, corn stalks, or pebbles next to the nest.

The clutch is usually 2-5 gray, brown-spotted eggs. Only the female has a brood patch and only she incubates the eggs for the 11-12 days until hatching. She generally feeds herself, foraging for part of each day. The young hatch covered with down, but their eyes are closed and they are helpless. The young leave the nest in 8-10 days, walking long before they can fly. They can do both well by the time they are one month old. The young begin to feed themselves after leaving the nest, but both adults continue to feed the young for 3-4 weeks until they become independent.

Horned Larks are visual ground foragers. In winter, they feed mostly on seeds; during the breeding season they capture insects such as grasshoppers that they flush to feed the young. In all seasons except winter they take some invertebrates. They may also dig up larvae and worms and occasionally eat fruit.

Deforestation and expanded agriculture enabled Horned Larks to expand their range and numbers in the late 19th and early 20th centuries. Since the mid-20th century, however, this trend has been reversed in many areas, including the Northeast, as abandoned agricultural land has reverted to forest. Horned Larks are subject to cowbird nest parasitism, but because they nest so early their first brood is generally free of cowbird problems. As ground nesters, Horned Larks are subject to nest predation by mammalian and avian species. Agricultural practices such early plowing of fields and heavy pesticide use thwart successful breeding. However, Breeding Bird Survey data suggest that the continental population is stable and that the future is bright for these delightful birds.

William E. Davis, Jr.

About the Cover Artist: Barry Van Dusen

Once again, *Bird Observer* offers a painting by the artist who has created many of our covers, Barry Van Dusen. Barry, who lives in Princeton, Massachusetts, is well known in the birding world. Barry has illustrated several nature books and pocket guides, and his articles and paintings have been featured in *Birding, Bird Watcher's Digest*, and *Yankee Magazine* as well as *Bird Observer*. Barry's interest in nature subjects began in 1982 with an association with the Massachusetts Audubon Society. He has been influenced by the work of European wildlife artists and has adopted their methodology of direct field sketching. Barry teaches workshops at various locations in Massachusetts. For more information, visit Barry's website at <www.barryvandusen.com>.

Breeding Bird Atlas Innovations

The Birding Community E-Bulletin

State and Provincial breeding bird atlases (BBAs) have been evolving over many years, and the most recent Massachusetts entry, a project of Mass Audubon, certainly represents another leap in the genre.

Last month, iTunes made available the second Massachusetts BBA as an eBook. This is the very first BBA eBook. On iTunes, it sells for about \$25: https://itunes.apple.com/us/book/massachusetts-breeding-bird/id766503987?mt=11

For those folks who still like the "real" book option they are also offering a print-on-demand option. The publisher will be taking preorders for the book, in the \$115 range, shipping included in the US. This offers a traditional treatment of the atlas, addressing distributional shifts of more than 200 species in Massachusetts, richly illustrated with John Sill's artwork, and featuring all maps - Atlas 1, Atlas 2 and Change Maps, as well as detailed distribution tables. See here very soon for particulars: http://www.scottandnix.com

At the same time, the Massachusetts BBA2 website has essentially all the content that is in the eBook, and that's for free: http://www.massaudubon.org/bba2

A succinct BBA2 summary, as well as bird conservation recommendations for the state, "State of the Birds 2013 - Massachusetts, Breeding Birds: A Closer Look" also became available last year in print, and as a pdf document: http://www.massaudubon.org/sotb>

The data used in the preparation of the BBA2 as well as State of the Birds 2011 and 2013 is available at the same website - just choose "Find A Bird," and you can explore the data.

These products are a direct result of 150,000 hours in the field, 250,000 data records, 222 species, and five years of field work. Now more is known about Massachusetts breeding birds than ever before, and it is possible these data represent the most complete data library for any state in the US. This work makes informed decisions about bird conservation planning in the state possible. Indeed, this work is not just about breeding birds; ultimately, it is about maintaining healthy and sustainable communities.

In combination, these projects aim to educate and inform everyone with an interest in Massachusetts with even a mild interest in birds, from planners to foresters and students to conservation professionals. Everyone now has access to the BBA2 data and the reports across many platforms.

AT A GLANCE

December 2013



DAVID M. LARSON

On first inspection this month's field problem suggests that an experienced proctologist or a gynecologist might have an advantage when attempting to identify the mystery species! This quirky observation offers a subtle identification clue since it implies that the photograph represents a rear view of the mystery bird. Specifically, the bird in the picture is taking flight and facing away from the reader, a fact reinforced by the obvious indication of its vent/cloacal opening and the angle of its "knees" in relation to its tibia and tarsi. The bird's legs are slightly flexed as it springs into flight.

Once we establish that the mystery bird is taking flight and is facing away from the reader, we can apply other useful features to the identification process. The bird's long legs at once suggest that bird is either a long-legged wading bird species (i.e., heron, egret, ibis, etc.) or a shorebird. The slenderness of the bird's long legs, its white tail, and the symmetrical white patches on the trailing edge of its secondaries are features that eliminate all wading bird species, and point to the identification of the mystery bird as a shorebird.

The super-long legs by themselves are practically a giveaway to the identification of the mystery bird. When the long legs are combined with the bird's trailing white secondaries, totally black primaries, and white panels on the inner portion of the wings the identification is unequivocal: American Avocet (*Recurvirostra americana*).

American Avocets are rare but regular coastal migrants in Massachusetts, most often appearing in late summer and fall, often lingering for days at a time once they show up at a particular locality. Stunning in breeding plumage when their heads and necks are a rich rusty brown, most avocets observed in the state tend to have the grayish necks typical of birds in nonbreeding plumage. David Larson photographed this American Avocet in Louisiana.

Wayne R. Petersen

Invasion of the Snowy Owls

MassWildlife News

An invasion (called an irruption by biologists) of Snowy Owls is occurring in the eastern United States, and Massachusetts is at the center of it all! Most of the Snowy Owls in Massachusetts have been reported in coastal areas, where the dunes and large grasslands mimic the tundra-like habitats where the birds usually live. Logan Airport has likely seen the highest density of these owls in eastern United States. As many as 15 owls have been seen at the airport at one time. Snowy Owls have turned up at a number of other sites in Massachusetts as well, including birds in central Massachusetts and even a bird in downtown Springfield.

"Snowy Owls are often found in Massachusetts during the winter, especially along the coast," says Andrew Vitz, State Ornithologist for the Division of Fisheries and Wildlife (MassWildlife). "What makes an irruption year unusual is the high number of birds and the unusual places they are spotted." Best bets for spotting owls are on public beaches and conservation lands in coastal Essex County north of Boston as well as federal, state or local beaches on Cape Cod and in Plymouth County. MassWildlife advises anyone who sees a Snowy Owl to observe from a respectful distance. In more urban areas, startled birds can easily be injured or killed upon colliding with buildings or power lines.

The Snowy Owl is North America's largest owl (by weight). These birds feed primarily on lemmings, and when food is abundant, adults may raise up to 12 young. Last summer, according to Vitz, lemming numbers were very high in northern Quebec, and the owls likely had an extremely productive breeding season. Birds are probably moving south in large numbers because there are simply too many of them for the breeding area to support. In fact, most of the birds arriving in the lower 48 states this winter are heavily barred, suggesting they are birds that hatched last summer. The irruption of Snowy Owls this year comes as somewhat of a surprise. Generally Snowy Owls undergo large scale southern movements about once in every four winters. However, a large irruption occurred in the winter of 2011-2012 and a smaller "echo" irruption in 2012-2013. "A third consecutive irruption of Snowy Owls raises many questions about the environmental conditions in the Arctic," says Vitz. "However, at this point there are more questions than answers."

AT A GLANCE



DAVID LARSON

Can you identify the bird in this photograph? Identification will be discussed in next issue's AT A GLANCE.

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