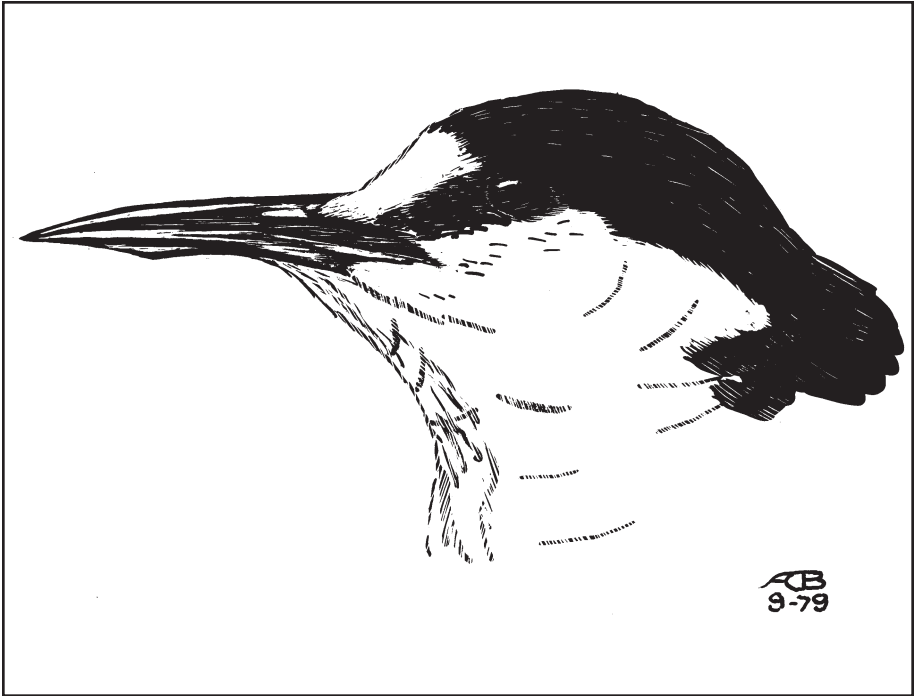


New Hampshire Bird Records



Fall 2000

Vol. 19, No. 3

About the Cover

by Rebecca Suomala and Arthur C. Borror

The drawing of a Sooty Tern on the cover was done by Dr. Arthur C. Borror when he acquired two dead specimens. According to Dr. Borror:

“In 1979 there was a hurricane (I believe it was David) that deposited several Sooty Terns along the New England coast. One day Tudor Richards and I were leading an Audubon Society of New Hampshire coast field trip when we salvaged an adult. I subsequently prepared the specimen as a study skin and gave it to Audubon in return for a mounted specimen of a female Passenger Pigeon that I added to the University of New Hampshire (UNH) Collection of Vertebrates. In the same storm, UNH also received an immature Sooty Tern, whose skin I prepared for the UNH collection.”

Dr. Borror was a professor at the University of New Hampshire at the time and prepared many bird skins for their collection as well as teaching bird skin preparation courses for Audubon.

Since that storm, there have been no Sooty Tern reports in New Hampshire until this fall, when one was seen briefly visiting the tern colony on Seavey Island at the Isles of Shoals.

In This Issue

- Star Island fall banding summary
- Fall hawkwatch results
- Purple Gallinule in Exeter
- How many birds in a flock? Learn to estimate

New Hampshire Bird Records (NHBR) is published quarterly by the Audubon Society of New Hampshire (ASNH). Bird sightings are submitted to ASNH and are edited for publication. A computerized printout of all sightings in a season is available for a fee. To order a printout, purchase back issues, or volunteer your observations for *NHBR*, please contact the Managing Editor at 224-9909.

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Increasing Costs

Like most things, the cost of producing *New Hampshire Bird Records* has increased in the last few years. We are exploring creative ways to address these increases and welcome suggestions from subscribers. We would like to continue to offer a quality publication with a variety of features that are of interest to New Hampshire birders. One piece of the solution may be to increase the annual subscription costs, which are currently \$10 for members of the Audubon Society of New Hampshire and \$15 for non-members. The subscription price for the publication has remained unchanged since 1994, but the publication has grown and changed substantially since then.

The increase in publication costs have come primarily from layout and design, a fixed cost. Thus an increase in the number of subscribers would help offset this. If you are interested in helping spread the word about *New Hampshire Bird Records*, please contact me. We can provide sample copies and subscription forms for you to distribute, or we can mail them to potential subscribers if you provide their names and addresses.

If there is an enthusiastic birder or subscriber that has professional experience in layout and design who might be interested in the production of *New Hampshire Bird Records*, please contact me. It is a fun and exciting publication and has room for a lot of creativity!

If you would like to help or offer suggestions and feedback, please don't hesitate to contact me at 603-224-9909, X309, or by e-mail at bsuomala@nhaudubon.org.

*Rebecca Suomala
Managing Editor
April, 2001*

What is a Long-tailed Duck?

Many of you may notice that a new bird has appeared in the listings: a Long-tailed Duck. It is not a new species that has just been discovered. Rather, it is a new name for a familiar species: the Oldsquaw. The name was changed in 2000 primarily to conform to European usage, so the use of Oldsquaw in North America has been replaced by the European name for the species.



Long-tailed Duck, ASNH

Fall Season: August through December

These are suggestions meant to be a guideline only to help reporters decide when they have a question on which sightings to report. Even though we do not publish all reports, each sighting is valuable in creating a picture of what is happening during the season. All sightings also become part of a database that provides information on bird distribution for research projects, endangered species reports, and other requests for data.

Always report any birds that are unusual for the state or the time of year. We recommend using *A Checklist of the Birds of New Hampshire* by Kimball C. Elkins as a reference (available at ASNH). For migrants, focus on arrival dates, peak numbers, late lingerers, inland sightings of ocean waterfowl, hawk flights, and shorebird peaks. For the common backyard residents that are present year round, report unusually high numbers or sightings which indicate a migration.

Some species are sought after by many birders and reports of these are interesting to all – they are often resident species that are present but not commonly seen such as boreal species like Gray Jay and Spruce Grouse, owls and goatsuckers, or secretive wetland birds such as rails and bitterns. Reports of state endangered and threatened species are always valuable for the database.

Reports for the following species were received but not listed

Great Blue Heron	Hairy Woodpecker	American Robin
Mallard	Pileated Woodpecker	Northern Mockingbird
Ring-necked Pheasant	Willow Flycatcher	Northern Cardinal
Ruffed Grouse	Common Raven	Rose-breasted Grosbeak
Rock Dove	Black-capped Chickadee	Bobolink
Great Horned Owl	Tufted Titmouse	American Goldfinch
Barred Owl	Brown Creeper	House Sparrow
Downy Woodpecker	House Wren	

Sightings of the species listed above occurred in average numbers at expected locations, were discussed in the summaries, or are escaped exotics.

August 1 through November 30, 2000

The fall season encompasses many changes in New Hampshire for both the weather and the corresponding effects on bird activity. With temperatures reaching the upper 80s in August, many species are still nesting or raising young, but by the end of the season, snow has reached many parts of the state, most of the neotropical migrants have left, and winter birds have started to arrive.

August began the fall season with below average precipitation and below average temperature for the month. Noteworthy nesting was documented in August for Palm Warblers and Spruce Grouse. A cold front on August 16 brought the lowest temperature of the month and the first measurable snowfall to Mount Washington, which received .8" of snow on August 20. This is the first measurable snow in the month of August on the mountain since 1986! The temperature rebounded to 87 degrees in Laconia on the last day of the month. A cold front on September 2 brought some clear, crisp weather for the next few days. Tony Vaz-zano noticed some interesting radar images on the internet on the night of September 4. After the sun went down, a radar image grew during the night and



Spruce Grouse
photo by Mark Suomala

drifted southward through New England, which appeared to show a migration of birds. The growing technology of radar and the internet are bringing bird migration directly to our home computers! Despite warm temperatures and moderate southwest winds, over 1,000 Broad-winged Hawks found good thermals and passed south through Dover on September 18, defying the commonly perceived beliefs that northerly winds after cold fronts are the best weather for hawk migration.

October was slightly cooler than normal with average precipitation. Some cool weather and light northwest winds brought a good coastal migration of Swainson's Thrushes on the evening of October 6, when the birds were detected over the city of Portsmouth by their nocturnal flight notes. A strong cold front on October 19 brought brisk northwest winds to the coast on the following day, and the best migration of Sharp-shinned Hawks was noted for the season. November was seasonably cold with below average precipitation and only 1.3" of snow recorded for the month in Laconia. As usual, a few lingering neotropical migrants were noted.

The Common Tern restoration program on the Isles of Shoals had another great season, and no doubt contributed to the high numbers of Common Terns reported along the coast. In my fall report last year, I called the approximately 500 Common Terns reported from the islands and the coast "unprecedented in the last 20 years." This year, the peak numbers were 1,000 birds at the Isles of Shoals and over 1,000 along the coast!

Rebecca Suomala finished her second and final fall season of bird banding on Star Island and once again contributed some significant data and interesting sightings for the fall records. Most noteworthy were the significant number of Yellow-breasted Chats and several rarities including two Lark Sparrows, three Dickcissels, and a Hooded Warbler (see page 37).

There were many other highlights for the fall, including two Pomarine Jaegers, three Little Gulls, several Lesser Black-backed Gulls, a second Hooded Warbler, a flock of nine Caspian Terns, a Western Kingbird, and a report of a western race of the Nashville Warbler. The prizes for the best bird of the fall, however, go to the Purple Gallinule (see page 36) in Exeter and the Sooty Tern out at the Isles of Shoals.

*Steve Mirick
Fall Editor*

Loons through Vultures

Loons and grebes were reported in small numbers, which were consistent with past fall totals. A storm-petrel, found in dam grates on the Merrimack River, was far more unusual. Although it was not conclusively identified, the date would appear to favor a Leach's Storm-Petrel. The bird was still alive when it was caught and was released back onto the river.

A boat trip, organized by the Brookline Bird Club, traveled from Newburyport, Massachusetts, to the offshore fishing banks of Cashes Ledge on August 21. The trip provided a unique opportunity to study these fishing areas, which are normally inaccessible to birders. The state boundaries are difficult to estimate; however, it is clear that the boat traveled through the offshore waters of Maine, New Hampshire, and Massachusetts. Selected sightings are included in the listings but the official trip totals are not — they were 33 individual shearwaters of three species, a total of 1200 Wilson's Storm-Petrels, and eight Leach's Storm-Petrels. Red and Red-necked Phalaropes were also recorded, as was a Pomarine Jaeger, which was determined to be in New Hampshire waters.

Tricolored and Little Blue Herons were reported in above average numbers for the fall. However, only three American Bitterns were reported throughout the state. A Cattle Egret on November 17 was a bit late for this irregular migrant, and a Turkey Vulture, reported on November 23 from Pondicherry Wildlife Refuge, was very late for this migrant, particularly so far north in the state.

<i>Date</i>	<i>#</i>	<i>town</i>	<i>location</i>	<i>observer(s)</i>
Red-throated Loon				
10-04	2	Rye	near Concord Pt.	R. & J. Quinn
10-21	29		NH coast	A. & B. Delorey, BBC FT
11-03	50		NH coast	A. & B. Delorey
11-24	33		NH coast	A. & B. Delorey
Common Loon				
10-13	60		NH coast	S. Mirick
10-20	32		Squam Lake	T. Vazzano, Lakes Region Chapier FT

<i>Date</i>	<i>#</i>	<i>town</i>	<i>location</i>	<i>observer(s)</i>
11-10	60	Rye	Ragged Neck	A.& B. Delorey
11-11	5		Newfound Lake	J. Williams
11-19	8	Holderness	Big & Little Squam Lakes	J. Williams
11-25	17	Rye	Concord Pt.	A.& B. Delorey
Pied-billed Grebe				
08-13	2	Exeter	Powder House Pond	G. Prazar
08-27	1	Dummer	Pontook Reservoir	R. Quinn
09-14	1	Bristol	Newfound Lake	A. Ports
09-26	7	Kingston	Powwow Pond	S. Mirick
09-30	1	Hopkinton	Elm Brook Pk.	R. Woodward, Capital Area Chapter FT
10-08	5	Exeter	Powder House Pond	R. Aaronian
10-13	2	Salem	World End Pond	K. Folsom
10-14	2	Moultonborough	Unsworth Preserve	T. Vazzano
10-20	5	Exeter	Powder House Pond	D. Donsker, G.& E. Mahler
10-20	1	Rye	Eel Pond	D. Donsker, G.& E. Mahler
10-26	6	Salem	World End Pond	K. Folsom
10-28	13	Kingston	Powwow Pond	S. Mirick, D. Abbott
11-11	1	Jefferson	Cherry Pond	D. Govatski
11-19	1	Exeter	Powder House Pond	G. Prazar
Horned Grebe				
09-10	1	Jefferson	Big Cherry Pond	J. McIlwaine
10-04	1	Newmarket	Great Bay	S. Mirick
10-07	5	Jefferson	Cherry Pond	D. Govatski, Capital Area Chapter FT
10-27	3	Holderness	Squam Lake	T. Vazzano
10-27	14	Newmarket	Great Bay	S. Mirick
11-01	7	Jefferson	Cherry Pond	D. Govatski
11-03	11	Newmarket	Great Bay	S. Mirick
11-11	4		Newfound Lake, w. side	J. Williams
11-11	4	Bridgewater	Newfound Lake, e. shore by Rt. 3A	J. Williams
11-24	15	Seabrook	Seabrook Beach	A.& B. Delorey
Red-necked Grebe				
10-21	2	Moultonborough	Squam Lake	T. Vazzano
10-27	1	Errol	Lake Umbagog	R. Quinn, M. Sousa
11-03	5	Newmarket	Great Bay	S. Mirick
11-04	7	Derry	Beaver Lake	A.& B. Delorey
11-05	3	Bristol	Newfound Lake, Wellington St. Pk.	J. Williams
11-11	3	Sanbornton	Lake Winnisquam	P. Hunt
11-13	1	Laconia	Bartlett Beach	W. Arms, B. Sens
11-18	16		NH coast	A.& B. Delorey, BBC FT
11-19	1	Holderness	Squam Lake	J. Williams
11-25	2	Laconia	Lake Winnisquam	P. Hunt
Greater Shearwater				
08-04	26		Jeffreys Ledge	A.& B. Delorey
08-18	5		Jeffreys Ledge	A.& B. Delorey
11-10	1	Rye	Ragged Neck	A.& B. Delorey
Shearwater sp.				
09-15	2	Rye	Star Is., Isles of Shoals	R. Suomala, D. Hayward

<i>Date</i>	<i>#</i>	<i>town</i>	<i>location</i>	<i>observer(s)</i>
Wilson's Storm-Petrel				
08-04	6		Jeffreys Ledge	A.& B. Delorey
08-05	1	N. Hampton	N. Hampton State Beach	A.& B. Delorey
08-18	10		Jeffreys Ledge	A.& B. Delorey
09-01	4		Jeffreys Ledge	A.& B. Delorey
Storm-Petrel sp.				
10-26	1	Manchester	Amoskeag dam grate	K. Neville, H. Dalbeck
Northern Gannet				
08-03	1	Rye	White & Seavey Is.	D. Hayward, M. Charette
08-04	2		Jeffreys Ledge	A.& B. Delorey
08-21	21		Cashes Ledge	S. Mirick, S. Perkins, BBC FT
09-03	4	Rye	Rye Ledge	S. Mirick
09-22	105	Rye	Star Is., Isles of Shoals	R. Suomala, D. Hayward
10-06	24	Rye	Ragged Neck	A.& B. Delorey
11-10	52	Rye	Ragged Neck	A.& B. Delorey
11-18	73		NH coast	A.& B. Delorey, BBC FT
11-20	20	Rye	Rye Ledge	D. Donsker
Double-crested Cormorant				
09-25	430	Rye	Star Is., Isles of Shoals	R. Suomala, M. Libby
09-28	411	Rye	Star Is., Isles of Shoals	R. Suomala, M. Libby
10-03	4	Gorham	Androscoggin River	R. Quinn
10-04	1	Errol	Lake Umbagog	R. Quinn, M. Sousa
10-17	3800	Rye	Odiorne Point	R. Aaronian
Great Cormorant				
08-13	3	Rye	White & Seavey Is.	D. DeLuca
09-15	8	Rye	Star Is., Isles of Shoals	R. Suomala, D. Hayward
10-27	6	Hampton	Hampton Beach St. Pk.	A.& B. Delorey
11-11	1	Concord	Turtle Pond	R. Quinn
11-24	24	Rye	Concord Pt.	A.& B. Delorey
American Bittern				
09-10	1	Northfield	pond	P. Hunt
09-14	1	Errol	Sweat Meadow	R. Quinn, M. Sousa
10-07	1	Hampton	Hampton Marshes	S. Mirick, ASNH FT
Great Blue Heron				
10-21	20	Seabrook	mussel beds	A.& B. Delorey, BBC FT
Great Egret				
08-03	7	Seabrook	harbor sandbars by Eastman's	J. Williams
08-05	1	Haverhill	Connecticut R. oxbow n. of the jail	J. Williams
09-02	10	Seabrook	mussel beds	A.& B. Delorey
10-04	1	Madbury	Bellamy Reservoir	S. Mirick
Snowy Egret				
08-03	55	Seabrook	harbor sandbars by Eastman's	J. Williams
09-02	50	Seabrook	mussel beds	A.& B. Delorey
09-25	24	Rye	Odiorne Pt. St. Pk.	A.& B. Delorey

<i>Date</i>	<i>#</i>	<i>town</i>	<i>location</i>	<i>observer(s)</i>
Little Blue Heron				
08-03	1	Hampton Falls	Depot Rd.	J. Williams
08-13	2	Rye	Odiorne Pt. St. Pk.	I. MacLeod
08-20	2	Rye	Rt. 1A	S. Mirick
09-04	1	Rye	behind Hemingways Restaurant	R. Woodward
09-09	1	Rye	Odiorne Pt. St. Pk.	A.& B. Delorey
Tricolored Heron				
08-09	1	Newington	just e. of General Sullivan Bridge	D.& T. Donsker
09-04	1	Seabrook	back edge of harbor	A. Delorey
Cattle Egret				
11-17	1	Rochester	wastewater treatment plant	S. Mirick
Green Heron				
08-03	1	Rye	Rye Harbor Rd.	J. Williams
08-06	2	Nashua	Nashua River	R. Andrews
08-08	1	Kensington	Rt. 107 residence	G. Gavutis
08-11	3	Hollis	N. Pepperell Rd.	I. MacLeod
08-12	1	Exeter	Powder House Pond	G. Prazar
08-17	1	New London	Low Plains marsh	H. Damon
08-26	1	Concord	Horseshoe Pond	J. Williams
08-27	1	Rye	behind Little Jack's Restaurant	R. Woodward
08-29	1	Kensington	Rt. 107 residence	G. Gavutis
09-16	1	Hopkinton	Chase Sanctuary	R. Woodward, Capital Area Chapter FT
10-15	1	Northfield	abandoned RR tracks	P. Hunt
Black-crowned Night-Heron				
08-03	2	Seabrook	harbor sandbars by Eastman's	J. Williams
08-04	3	Rochester	wastewater treatment plant	R. Suomala
08-06	1	Nashua	Nashua River	R. Andrews
08-17	2	Portsmouth	Market St. pond near Albacore Park	G.& M. Prazar
08-27	5	Exeter	Powder House Pond	R. Woodward
10-12	1	Newmarket	Great Bay	S. Mirick
Glossy Ibis				
08-08	30	Rye	White & Seavey Is.	M. Charette, V. Saint-Amant
Turkey Vulture				
10-28	2	Kingston	Powwow Pond	S. Mirick, D. Abbott
11-23	1	Jefferson	Pondicherry WS	D. Govatski, C. Bretton

Waterfowl and Hawks

Brant put on a show, with above average numbers on Great Bay and a rare inland find of a single bird that remained for several days on the Plymouth State College soccer field. A large migration of Brant was noted on October 7, when 398 birds were counted migrating south along the New Hampshire coast. The birds were flying in several groups of up to 100 per flock, all flying south right along the shore. A Greater White-fronted Goose in Dunbarton was a rare find for this species and the first fall record since 1997.

Three Gadwall seen in Jefferson on October 7 is an unusual sighting away from Great Bay, where this species is now reported nearly every fall. American Wigeon were found in above average numbers again on Great Bay, although only one Eurasian Wigeon was discovered. The highest numbers of Ring-necked Ducks for the fall were reported from two traditional staging areas in Salem and Moultonborough. "Sea duck" reports came from several inland locations, including four separate inland sightings of Long-tailed Duck and a few inland scoter flocks, highlighted by a group of 100 Black Scoters on Lake Winnisquam on October 28. Ruddy Ducks were not well reported from the typical coastal locations; however, above average numbers were reported from the south-central part of the state, highlighted by over 100 birds on Beaver Lake in Derry.

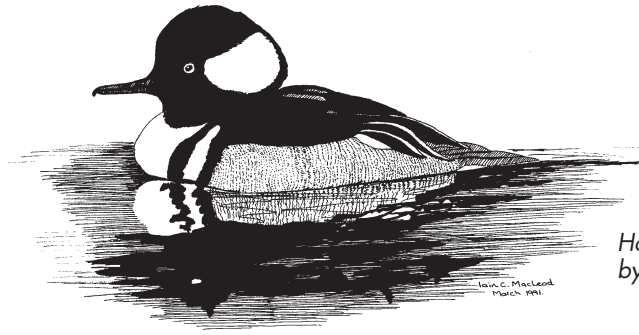
The ten Broad-winged Hawks noted along the coast on August 20 all appeared to be very early migrants, following the coast on very strong northwest winds. This was followed by the very rare offshore sighting of two Broad-winged Hawks on Star Island the next day. The Broad-winged Hawk migration peaked a bit later than usual with over 1,000 on September 18 in Dover and 700 on September 23 in Auburn. Over the border, in York, Maine, the peak occurred on September 22, with over 3,000 Broad-winged Hawks. A coastal hawkwatch on October 20 tallied 190 Sharp-shinned Hawks on gusty northwest winds. A total of 13 Cooper's Hawks, three Northern Goshawks, and four Red-shouldered Hawks were reported. These numbers are typical or a bit below average for the fall migration. (See page 45 for more on the fall hawk migration.)

<i>Date</i>	<i>#</i>	<i>town</i>	<i>location</i>	<i>observer(s)</i>
Greater White-fronted Goose				
11-20	1	Dunbarton	Long Pond Rd.	K. Cohen
11-24	1	Dunbarton	Long Pond Rd.	K. Cohen, R. Woodward
Snow Goose				
10-04	6	Plymouth	airport	A. Ports
10-04	1	Wentworths Loc.	Magalloway River	R. Quinn
10-05	53	Jefferson	Cherry Pond	D. Govatski
10-09	1	Lisbon	Pearl Lake	J. McIlwaine
10-11	16	Canterbury	Baptist Hill Rd.	R. Quinn
Canada Goose				
10-04	200	Errol	Lake Umbagog	R. Quinn, M. Sousa
10-06	500	Columbia	residence	B.& D. Killam
10-15	120	Gilsum	Hammond Hollow	M. Wright
11-20	200	Salem	World End Pond	K. Folsom
Brant				
10-06	20	Newmarket	Great Bay	S. Mirick
10-07	398	Hampton	NH coast	S. Mirick, ASNH FT
10-13	58	Greenland	Sunset Landing	A.& B. Delorey
10-14	10	Rye	Concord Pt.	A.& B. Delorey
10-27	2	Hampton	Bicentennial Pk.	A.& B. Delorey
11-20	1	Holderness	Plymouth St. College soccer field	B. Taffe, R. Hutchins, T. McDonald
11-22	1	Holderness	Plymouth St. College football field	J. Williams

<i>Date</i>	<i>#</i>	<i>town</i>	<i>location</i>	<i>observer(s)</i>
Wood Duck				
08-15	1	Rye	Star Is., Isles of Shoals	R. & M. Suomala
09-25	55	Lancaster	wastewater treatment plant	J. McIlwaine, S. & M. Turner, S. Stoddard
10-10	30	Epping	pond e. of Nottingham Square Rd.	G. Gavutis, Jr.
10-10	10	Kensington	Rt. 107 residence	G. Gavutis Jr.
10-15	1	Tamworth	Chocorua R.	C. & J. Tewksbury
11-03	1	Newmarket	Great Bay	S. Mirick
Gadwall				
10-07	3	Jefferson	Cherry Pond	D. Govatski, Capital Area Chapter FT
10-17	2	Stratham	Sandy Pt.	S. Mirick
10-21	1	Stratham	Sandy Pt.	A. & B. Delorey, BBC FT
Eurasian Wigeon				
10-13	1	Greenland	Sunset Landing	A. & B. Delorey
11-04	1	Greenland	Sunset Farm, Great Bay	S. Mirick, J. Mittermeier
American Wigeon				
09-01	3	Newmarket	Great Bay	S. Mirick
09-26	49	Greenland	Sunset Farm	S. Mirick
10-03	5	Exeter	wastewater treatment plant	S. Mirick
10-13	120	Greenland	Sunset Landing	A. & B. Delorey
11-04	160	Greenland	Sunset Farm, Great Bay	S. Mirick, J. Mittermeier
American Black Duck				
09-01	200	Newmarket	Great Bay	S. Mirick
11-16	55	Errol	Lake Umbagog	R. Quinn, L. Wunder
Blue-winged Teal				
08-30	5	Rochester	wastewater treatment plant	S. Mirick
09-02	17	Exeter	wastewater treatment plant	A. & B. Delorey
09-21	7	Rochester	wastewater treatment plant	T. Vazzano
10-03	5	Errol	Magalloway River	R. Quinn, M. Sousa, L. Wunder
10-04	5	Durham	beaver pond near Rt. 108 & Longmarsh Rd.	G. Gavutis, Jr.
10-28	6	Exeter	wastewater treatment plant	D. Donsker, G. & E. Mahler
10-28	1	Rye	Eel Pond	D. Donsker, G. & E. Mahler
Northern Shoveler				
10-08	4	Exeter	Squamscott River	R. Aaronian
10-17	2	Newmarket	Great Bay	S. Mirick
Northern Pintail				
09-01	2	Newmarket	Great Bay	S. Mirick
10-08	4	Exeter	wastewater treatment plant	R. Aaronian
10-13	1	Stratham	Sandy Pt.	A. & B. Delorey
10-21	2	Newmarket	Great Bay	S. Mirick
11-11	2	Greenland	Sunset Landing	A. & B. Delorey

<i>Date</i>	<i>#</i>	<i>town</i>	<i>location</i>	<i>observer(s)</i>
Green-winged Teal				
08-30	1	Rochester	wastewater treatment plant	S. Mirick
10-08	15	Exeter	wastewater treatment plant	R. Aaronian
10-14	20	Moultonborough	Unsworth Preserve	T. Vazzano
10-17	17	Newmarket	Great Bay	S. Mirick
10-28	16	Exeter	wastewater treatment plant	D. Donsker, G.& E. Mahler
Canvasback				
11-04	1	Greenland	Sunset Farm on Great Bay	S. Mirick, J. Mittermeier
Ring-necked Duck				
08-26	45		Lake Umbagog area	R. Quinn
10-13	35	Salem	World End Pond	K. Folsom
10-14	200	Moultonborough	Unsworth Preserve	T. Vazzano
10-25	83	Jefferson	Pondicherry	R. Quinn, J. Berry
10-26	250	Salem	World End Pond	K. Folsom
11-01	23	Derry	Beaver Lake	A. Delorey
11-04	22	Moultonborough	Unsworth Preserve, Bean Rd.	J. Williams
11-20	75	Salem	World End Pond	K. Folsom
11-25	1	Laconia	Opechee Bay	P. Hunt
Greater Scaup				
10-22	2	Laconia	Opechee Bay	P. Hunt
10-25	10	Littleton	Moore Reservoir	R. Quinn, J. Berry, B. Bradley
10-27	2	Errol	Lake Umbagog	R. Quinn, M. Sousa
11-03	370		Great Bay	A.& B. Delorey
11-25	300	Greenland	Sunset Landing	A.& B. Delorey
Lesser Scaup				
10-07	23	Jefferson	Cherry Pond	D. Govatski
10-22	1	Derry	Beaver Lake	A.& B. Delorey
10-26	6	Lancaster	wastewater treatment plant	R. Quinn
Scaup sp.				
09-22	3	Rye	Star Is., Isles of Shoals	R. Suomala, D. Hayward
10-04	5	Newmarket	Great Bay	S. Mirick
10-27	8	Errol	Leonard Pond	R. Quinn, M. Sousa
Common Eider				
08-02	73	Rye	White & Seavey Is.	D. Hayward, M. Charette
08-03	36	Rye	n. of Foss Beach	J. Williams
09-04	30	Rye	n. end of Foss Beach	A.& B. Delorey
Surf Scoter				
08-09	1	Rye	n. of Ragged Neck	S. Mirick, M. Suomala
09-03	1		NH coast	S. Mirick
10-14	100	Hampton	Great Boars Head	A.& B. Delorey
10-14	90	Hampton	Hampton Beach	A.& B. Delorey
11-01	46	Jefferson	Cherry Pond	D. Govatski
11-10	130	Rye	Ragged Neck	A.& B. Delorey
White-winged Scoter				
09-03	30		NH coast	S. Mirick
09-23	39	Rye	Star Is., Isles of Shoals	R. Suomala, D. Hayward
10-04	1	Newmarket	Great Bay	S. Mirick

<i>Date</i>	<i>#</i>	<i>town</i>	<i>location</i>	<i>observer(s)</i>
10-17	17	Gilmanton	Crystal Lake, Gilmanton IW	W. Arms
10-20	2	Moultonborough	Squam Lake	T. Vazzano, Lakes Region Chapter FT
10-27	150	Seabrook	Seabrook Beach	A.& B. Delorey
Black Scoter				
08-03	3	Rye	Foss Beach	J. Williams
09-23	15	Rye	Star Is., Isles of Shoals	R. Suomala, D. Hayward
10-13	32	Jefferson	Cherry Pond	D. Govatski
10-25	39	Jefferson	Pondicherry WS	R. Quinn, J. Berry
10-25	35	Littleton	Moore Reservoir	R. Quinn, J. Berry, B. Bradley
10-27	157	Seabrook	Seabrook Beach	A.& B. Delorey
10-28	100	Tilton	Lake Winnisquam	P. Hunt
11-01	19	Jefferson	Cherry Pond	D. Govatski
11-16	7	Errol	Lake Umbagog	R. Quinn, L. Wunder
11-24	50	Seabrook	Seabrook Beach	A.& B. Delorey
Long-tailed Duck				
10-25	2	Springfield	Kolelemook Pond	D. Hayward
11-06	1	Jefferson	Cherry Pond	D. Govatski
11-10	30	Rye	Ragged Neck	A.& B. Delorey
11-11	5	Jefferson	Cherry Pond	D. Govatski
11-12	3	Derry	Beaver Lake	A.& B. Delorey
Bufflehead				
10-17	1	Stratham	Sandy Point	S. Mirick
10-26	3	Bethlehem	Blaney Rd. pond	J. McIlwaine
10-29	4	Bridgewater	Dick Brown Pond	J. Williams
11-01	31	Jefferson	Cherry Pond	D. Govatski
11-06	90	Jefferson	Cherry Pond	D. Govatski
11-10	15	Ashland	Squam River, River St.	J. Williams
11-13	6	Salem	Canobie Lake	K. Folsom
11-17	153	Newmarket	Great Bay	S. Mirick
11-23	5	Holderness	Carns Cove, Squam Lake	J. Williams
Common Goldeneye				
10-27	1	Benton	Oliverian Pond, WMNF	J. Williams
11-04	2	Greenland	Sunset Farm on Great Bay	S. Mirick, J. Mittermeier
11-04	47	Center Harbor	Squam Lake, Dog Cove	J. Williams
11-10	48	Center Harbor	Squam Lake, Dog Cove	J. Williams
11-11	28		Lake Winnisquam	P. Hunt
11-18	22	Laconia	Lake Winnisquam	P. Hunt
11-23	61	Center Harbor	Squam Lake, Dog Cove	J. Williams
11-25	103		Lake Winnisquam	P. Hunt
Barrow's Goldeneye				
11-25	1	Seabrook	Hampton Harbor	S. Mirick, D. Abbott
Hooded Merganser				
11-11	29	Tilton	Silver Lake	P. Hunt
11-16	25	Errol	Lake Umbagog wetlands	R. Quinn, L. Wunder
11-19	15	Exeter	Powder House Pond	A.& B. Delorey
11-19	28	Holderness	Squam Lake	J. Williams
11-19	92	Holderness	White Oak Pond	J. Williams



Hooded Merganser
by Iain C. MacLeod

<i>Date</i>	<i>#</i>	<i>town</i>	<i>location</i>	<i>observer(s)</i>
Hooded Merganser — continued				
11-23	23		Squam Lakes & River	J. Williams
11-25	34	Laconia	Opechee Bay	P. Hunt
11-25	30		Lake Winnisquam	P. Hunt
11-25	32	Tilton	Silver Lake	P. Hunt
Common Merganser				
10-22	68	Sanbornton	Lake Winnisquam	P. Hunt
11-03	55	Tilton	s. end, Lake Winnisquam	B. Taffe
11-10	67	Holderness	White Oak Pond	J. Williams
11-11	66	Tilton	Silver Lake	P. Hunt
11-11	48		Lake Winnisquam	P. Hunt
11-18	186	Tilton	Silver Lake	P. Hunt
11-25	91	Laconia	Opechee Bay	P. Hunt
Red-breasted Merganser				
10-16	2	Newmarket	Great Bay	S. Mirick
11-10	174	Rye	Ragged Neck	A.& B. Delorey
11-23	80	Hampton	Bicentennial Park	S. Mirick
11-24	122	Hampton	Bicentennial Park	A.& B. Delorey
Ruddy Duck				
09-26	1	Exeter	wastewater treatment plant	S. Mirick
10-02	2	Salem	World End Pond	K. Folsom
10-08	3	Exeter	wastewater treatment plant	R. Aaronian
10-16	6	Kingston	Powwow Pond	K. Folsom
10-20	1	Rye	Eel Pond	D. Donsker, G.& E. Mahler
10-20	50	Derry	Beaver Lake	A.& B. Delorey
10-22	21	Auburn	Lake Massabesic	A.& B. Delorey
10-22	13	Tilton	Lake Winnisquam	P. Hunt
11-12	105	Derry	Beaver Lake	A.& B. Delorey
Osprey				
09-19	14	Deering	Peter Wood Hill	I. MacLeod
09-19	14	Peterborough	Pack Monadnock	I. Malo

<i>Date</i>	<i>#</i>	<i>town</i>	<i>location</i>	<i>observer(s)</i>
Bald Eagle				
08-04	1	Rye	White & Seavey Is.	D. Hayward, M. Charette
08-06	8	Errol	Lake Umbagog	Friends of Umbagog volunteers
08-12	1	Moultonborough	Lake Winnepesaukee, Moultonborough Neck area	J. Caron
08-13	1	Benton	Mt. Moosilauke near s. summit	L. Myers, et al.
Northern Harrier				
08-10	1	Meredith	Moulton Farm, Cressey Rd.	J. Merrill
08-19	1	Hampton	Hampton Marsh	A.& B. Delorey
08-19	1	Seabrook	mussel beds	A.& B. Delorey
10-20	8	Rye	Odiorne Point	S. Mirick
11-25	1	Hampton	Island Path Road	S. Mirick, D. Abbott
11-25	1	Rye	Odiorne Point	A.& B. Delorey
11-30	1	Sandwich	Whiteface Intervale	T. Vazzano
Sharp-shinned Hawk				
09-09	5	Lancaster	Weeks St. Pk.	S.& M. Turner, et al.
09-09	22	Peterborough	Pack Monadnock	I. MacLeod
09-10	5	Lancaster	Weeks St. Pk.	S.& M. Turner, et al.
09-13	17	Lancaster	Weeks St. Pk.	S.& M. Turner, et al.
09-19	15	Deering	Peter Wood Hill	I. MacLeod
10-20	190	Rye	Odiorne Pt. Hawk Watch	S. Mirick
Broad-winged Hawk				
08-20	10	Rye	Odiorne Pt. St. Pk.	S. Mirick
08-21	2	Rye	Star Is., Isles of Shoals	R.& M. Suomala
09-03	4	Lancaster	Weeks St. Pk.	S.& M. Turner, et al.
09-10	96	Lancaster	Weeks St. Pk.	S.& M. Turner, et al.
09-13	78	Lancaster	Weeks St. Pk.	S.& M. Turner, et al.
09-17	79	Chester	Hillside Haven	A.& B. Delorey
09-18	1158	Dover	Garrison Hill	S. Mirick
09-19	182	Peterborough	Pack Monadnock	I. Malo
09-22	45	Lancaster	Weeks St. Pk.	S.& M. Turner, et al.
09-23	700	Auburn	Massabesic Audubon Center	I. MacLeod
10-20	1	Rye	Odiorne Pt. St. Pk.	S. Mirick
American Kestrel				
08-26	6	Errol	Leonard Marsh	R. Quinn
09-09	4	Lancaster	Weeks St. Pk.	S.& M. Turner, et al.
09-13	4	Lancaster	Weeks St. Pk.	S.& M. Turner, et al.
09-22	4	Portsmouth	Pease Int'l. Tradeport	A.& B. Delorey
10-08	4	Chester	Hillside Haven	A.& B. Delorey
Merlin				
08-06	1	Errol	Harpers Meadow marsh	B.& B. Taffe
08-17	1	Rye	White & Seavey Is.	D. Hayward, M. Charette, V. Saint-Amant
11-07	1	Nashua	Deerhaven Dr.	R. Andrews
11-25	1	Hampton	Island Path Rd.	S. Mirick, D. Abbott

<i>Date</i>	<i>#</i>	<i>town</i>	<i>location</i>	<i>observer(s)</i>
Peregrine Falcon				
08-23	1	Berlin	PPA smokestack	C. Martin
08-24	1	Plymouth	Beech Hill Rd. tower	J. Williams
08-28	1	Manchester	Hampshire Plaza	I. MacLeod
10-07	1	Hollis	Beaver Brook	A. Delorey
10-17	1	Manchester	Elm St.	C. Martin

Grouse through Terns

Several Spruce Grouse were reported for the fall, including family groups in Pittsburg and Waterville Valley and a rare find of a male at the Pondicherry Wildlife Refuge. American Coot numbers were the lowest seen in many years. However, the discovery of a juvenile Purple Gallinule by 15-year-old John Mittermeier is one of the highlights of the fall (see page 36). This bird, found at Powder House Pond in Exeter on October 13, was the fifth or sixth record for the state. Unlike all of the previous records, this bird remained for several days and was enjoyed by many birders until it was last reported on October 16.

The shorebird highlight for the fall was the exceptional numbers of Semipalmated Sandpipers and Semipalmated Plovers present along the coast in early August, when approximately 2,000 individuals were estimated. High numbers of Ruddy Turnstones were once again reported from offshore at the Isles of Shoals, with a peak total of 70 on August 5. A total of 40 American Woodcock in the area of Pondicherry Wildlife Refuge is also a high total for this common, but secretive, migrant. Rarities for the fall included Red and Red-necked Phalaropes reported offshore, late reports of two Stilt Sandpipers in Exeter on October 14, and an unusually late and inland report of a White-rumped Sandpiper in Rochester on November 17.

A remarkable total of 11 species of gulls and seven species of terns were reported for the fall, highlighted by the first record since 1979 of Sooty Tern for the state. Sooty Tern sightings in the northeastern United States are usually storm related vagrants; however, this individual was seen flying over the tern colony at Seavey Island on August 11.

A feeding frenzy of gulls along the coast attracted a nice total of nine Caspian Terns in North Hampton on September 23. Other interesting records include two Little Gulls photographed in Rye, over 1,000 Common Terns along the coast in early September, and a total of between four and six Lesser Black-backed Gulls reported through the fall. This species is seeing a dramatic increase in New Hampshire and New England in general over the last few years. Two rare sightings of Pomarine Jaegers were reported for the fall, one from the offshore near the Cashes Ledge nautical buoy and the other from Hampton Harbor, where this pelagic species is far less common.

<i>Date</i>	<i>#</i>	<i>town</i>	<i>location</i>	<i>observer(s)</i>
Spruce Grouse				
08-06	4	Waterville Valley	Dickey Mtn. Summit	B. Laird
09-10	6	Pittsburg	Norton Pool	D. Govatski, C. Bretton
09-14	1	Errol	Eames Road	R. Quinn, M. Sousa
10-04	1	Jefferson	Little Cherry Pond	D. Tibbetts
Wild Turkey				
08-11	2	Pittsburg	Middle Branch Dead Diamond R.	B. Jahoda
08-18	6	Tamworth	Bunker Hill Rd.	B. Steele
09-10	23	Littleton	Rt. 18	S.& M. Turner
09-19	18	Goshen	Brook Rd.	P. Newbern
10-26	20	Sugar Hill	Lovers Ln.	R. Quinn
Virginia Rail				
08-11	1	Hollis	N. Pepperell Rd.	R. Andrews
Purple Gallinule				
10-13	1	Exeter	Powder House Pond	J. Mittermeier
10-14	1	Exeter	Powder House Pond	S. Mirick
American Coot				
09-24	2	Exeter	Powder House Pond	G. Prazar
09-26	4	Kingston	Powwow Pond	S. Mirick
10-08	4	Exeter	Powder House Pond	R. Aaronian
11-19	1	Exeter	Powder House Pond	G. Prazar
Black-bellied Plover				
08-13	4	Rye	White & Seavey Is.	D. DeLuca
09-22	26	Rye	Star Is., Isles of Shoals	R. Suomala, D. Hayward
10-14	35	Seabrook	marina	A.& B. Delorey
10-17	1	Newmarket	Great Bay	S. Mirick
11-11	6	Rye	Ragged Neck	D. Donsker
11-11	15	Hampton	Hampton Beach St. Pk.	A.& B. Delorey
American Golden-Plover				
08-26	1	Portsmouth	Pease Int'l. Tradeport	S. Mirick
09-18	9	Newington	Pease Int'l. Tradeport	S. Mirick
09-18	2	Rye	Star Is., Isles of Shoals	R. Suomala, D. Hayward
09-22	8	Portsmouth	Pease Int'l. Tradeport	A.& B. Delorey
09-22	5	Rye	Star Is., Isles of Shoals	R. Suomala, D. Hayward
10-03	1	Exeter	wastewater treatment plant	S. Mirick
Semipalmated Plover				
08-03	1000		NH coast	J. Williams
08-03	400	Hampton Falls	Depot Rd.	T. Vazzano, B. Bruni
08-05	14	Rye	White & Seavey Is.	D. Hayward, M. Charette, V. Saint-Amant
10-28	3	Exeter	Ragged Neck	D. Donsker, G.& E. Mahler
11-11	1	Rye	Ragged Neck	S. Mirick, BBC Trip
Killdeer				
08-18	1	Rye	Star Is., Isles of Shoals	R.& M. Suomala
09-06	21	New London	Colby Sawyer College soccer field	H. Anderson
09-17	8	Ashland	Mill Pond	J. Williams
10-08	15	Exeter	wastewater treatment plant ponds	R. Aaronian

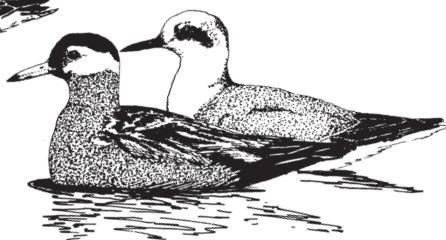
<i>Date</i>	<i>#</i>	<i>town</i>	<i>location</i>	<i>observer(s)</i>
Greater Yellowlegs				
08-09	1	Kensington	Rt. 107 residence	G. Gavutis
08-27	6	Errol	Lake Umbagog	R. Quinn, M. Sousa
Solitary Sandpiper				
08-03	1	Hampton Falls	Depot Rd.	T. Vazzano, B. Bruni
08-08	2	Derry	wastewater treatment plant	A. Delorey
09-05	1	Nashua	Mill Pond near high school	R. Andrews
09-11	3	Concord	Rt. 93 near Manchester St. exit	H. Anderson
09-13	4	Derry	wastewater treatment plant	A. Delorey
Willet				
08-05	1	Rye	White & Seavey Is.	D. Hayward, M. Charette, V. Saint-Amant
Spotted Sandpiper				
08-03	2	Rye	rocks n. of Foss Beach	J. Williams
08-11	1	Laconia	Laconia CC, Elm St.	H. Anderson
09-27	1	Rye	Star Is., Isles of Shoals	R. Suomala, M. Libby
10-08	1	Tilton	Silver Lake	P. Hunt
Upland Sandpiper				
08-06	3	Portsmouth	Pease Golf Course	R. Woodward
09-04	1	Portsmouth	Pease Golf Course	A.& B. Delorey
Whimbrel				
08-01	1	Rye	White & Seavey Is.	D. Hayward, M. Charette
08-05	2	Seabrook	mussel beds	A.& B. Delorey
08-19	2	Seabrook	mussel beds	A.& B. Delorey
09-05	1	Auburn	off Wilson Rd.	I. MacLeod
Hudsonian Godwit				
08-05	2	Seabrook	mussel beds	A.& B. Delorey
08-12	2	Seabrook	mussel beds	A.& B. Delorey, D. Abbott, D. Finch
09-02	1	Seabrook	mussel beds	A.& B. Delorey
Ruddy Turnstone				
08-03	6	Rye	Seal Rocks	J. Williams
08-03	7	Rye	n. of Foss Beach	J. Williams
08-05	70	Rye	White & Seavey Is.	D. Hayward, M. Charette, V. Saint-Amant
08-09	59	Rye	White & Seavey Is.	M. Charette, V. Saint-Amant
08-12	9	Rye	Foss Beach	A.& B. Delorey
08-13	32	Rye	White & Seavey Is.	D. DeLuca
08-20	45	Rye	Star Is., Isles of Shoals	R.& M. Suomala
09-03	14	Rye	s. of Odiorne Pt.	S. Mirick
10-27	1	Hampton	Hampton Beach St. Pk.	A.& B. Delorey
Red Knot				
08-01	1	Rye	White & Seavey Is.	D. Hayward, M. Charette
Sanderling				
08-05	250	Rye	Rye Town Beach	A.& B. Delorey
09-03	150	Rye	Jenness Beach	S. Mirick, J. Matthews
09-18	8	Rye	Star Is., Isles of Shoals	R. Suomala, D. Hayward

<i>Date</i>	<i>#</i>	<i>town</i>	<i>location</i>	<i>observer(s)</i>
10-14	400	Seabrook	Seabrook Beach	A.& B. Delorey
11-25	375	Seabrook	Seabrook Beach	S. Mirick
Semipalmated Sandpiper				
08-03	600	Hampton Falls	Depot Rd.	T. Vazzano, B. Bruni
08-03	1000		NH coast	J. Williams
08-04	9	Rye	White & Seavey Is.	D. Hayward, M. Charette
09-03	200	Rye	s. of Odiorne Pt.	S. Mirick
09-09	3	Concord	Horseshoe Pond	J. Williams
Western Sandpiper				
09-03	1	Rye	s. of Odiorne Pt.	S. Mirick
Least Sandpiper				
08-03	2	Rye	Pulpit Rocks	J. Williams
08-14	24	Rye	White & Seavey Is.	D. DeLuca
09-11	2	Hollis	Flint Pond	R. Andrews
White-rumped Sandpiper				
08-03	2	Hampton Falls	Depot Rd.	T. Vazzano
09-30	1	Rye	Rye Ledge	S. Mirick, Maine Audubon FT
11-01	1	Seabrook	Hampton Harbor	S. Mirick
11-03	10	Rochester	wastewater treatment plant	S. Mirick
11-11	1	Rye	Ragged Neck	D. Donsker
11-17	1	Rochester	wastewater treatment plant	S. Mirick
Pectoral Sandpiper				
08-03	1	Hampton Falls	Depot Rd.	T. Vazzano, B. Bruni
09-21	1	Rochester	wastewater treatment plant	T. Vazzano
10-03	2	Exeter	wastewater treatment plant	S. Mirick
10-27	1	Errol	Magalloway R.	R. Quinn, M. Sousa
11-03	4	Rochester	wastewater treatment plant	S. Mirick
Purple Sandpiper				
11-18	20	Hampton	Bicentennial Pk.	A.& B. Delorey, BBC FT
11-24	6	Rye	Seal Rocks	A.& G. Prazar
Dunlin				
10-14	50	Seabrook	marina	A.& B. Delorey
10-27	21	Hampton	Hampton Beach St. Pk.	A.& B. Delorey
11-11	54	Seabrook	Seabrook Harbor	R. Woodward
11-25	150	Seabrook	Seabrook Beach	S. Mirick
Stilt Sandpiper				
08-03	1	Seabrook	Hampton Harbor	T. Vazzano, B. Bruni
10-14	2	Exeter	Squamscott R.	S. Mirick, A. Maley, D. Abbott, et al.
Short-billed Dowitcher				
08-05	12	Hampton	Henry's Pool	A.& B. Delorey
08-06	16	Seabrook	Blackwater R. near Rt. 286	R. Woodward
09-02	24	Seabrook	mussel beds	A.& B. Delorey
Common Snipe				
08-22	1	Rye	Star Is., Isles of Shoals	R.& M. Suomala
10-27	5	Errol	Leonard Pond	R. Quinn, M. Sousa

Red-necked Phalarope
by Iain C. MacLeod



Red Phalarope
by Iain C. MacLeod



<i>Date</i>	<i>#</i>	<i>town</i>	<i>location</i>	<i>observer(s)</i>
American Woodcock				
10-21	40	Jefferson	near Hazen Rd., sw. of Pondicherry WS	G. Gavutis, Jr.
10-24	10	Hill	Pemigewasset R. flood detention area	G. Gavutis, Jr.
10-31	1	Holderness	US Forest Service office	J. Williams
Red-necked Phalarope				
09-01	10		Jeffreys Ledge	A.& B. Delorey
Red Phalarope				
09-01	4		Jeffreys Ledge	A.& B. Delorey
Pomarine Jaeger				
08-21	1		near Cashes Ledge buoy	S. Mirick, BBC FT
09-02	1	Seabrook	harbor, from Fisherman's Co-op.	A.& B. Delorey
Laughing Gull				
08-02	1	Rye	White & Seavey Is.	D. Hayward, M. Charette
08-12	1	N. Hampton	N. Hampton State Beach	A.& B. Delorey
08-28	18	Rye	NH coast	S. Mirick
09-09	18	Rye	Ragged Neck	A.& B. Delorey
09-09	5	Rye	Odiorne Pt. St. Pk.	A.& B. Delorey
09-23	20		NH coast	S. Mirick
10-14	1	Rye	Ragged Neck	A.& B. Delorey
Little Gull				
09-22	2	Rye	Odiorne Pt. St. Pk.	S. Mirick
11-19	1	Rye	Pulpit Rocks	S. Mirick, J. Mittermeier
Black-headed Gull				
11-17	1	Rochester	Pickering Ponds Trail	S. Mirick
Bonaparte's Gull				
08-06	1	Errol	Lake Umbagog	S.& M. Turner, L. Wunder
09-22	150	Rye	Odiorne Pt. St. Pk.	S. Mirick
10-03	2	Errol	Lake Umbagog	R. Quinn, M. Sousa, L. Wunder
11-03	45	Newmarket	Great Bay	S. Mirick
11-11	80	Greenland	Sunset Landing	A.& B. Delorey

<i>Date</i>	<i>#</i>	<i>town</i>	<i>location</i>	<i>observer(s)</i>
Ring-billed Gull				
09-17	1	Rye	Star Is., Isles of Shoals	R. Suomala, D. Hayward
10-21	350	Newmarket	Great Bay	S. Mirick
Iceland Gull				
11-25	2	Rochester	Pickering Ponds	M. Resch, D. Donsker
11-29	4	Farmington	Ten Rod Rd.	S. Mirick
Lesser Black-backed Gull				
08-29	1	Rye	Jeness Beach	S. Mirick
09-28	1	Rochester	wastewater treatment plant	S. Mirick
10-07	1	Rye	Odiorne Pt. St. Pk.	S. Mirick, J. Matthews
11-03	1	Rochester	wastewater treatment plant	S. Mirick
11-11	1	Rye	Odiorne Pt. St. Pk.	S. Mirick, BBC FT
11-17	3	Rochester	Pickering Ponds Trail	S. Mirick
11-25	3	Rochester	Pickering Ponds Trail	M. Resch, D. Donsker
11-27	1	Rochester	Pickering Ponds Trail	S. Mirick
Glaucous Gull				
11-25	1	Rochester	Pickering Ponds Trail	D. Donsker
Black-legged Kittiwake				
09-15	1	Hampton	Bicentennial Park	A. Delorey
11-11	1	Rye	Rt. 1A	S. Mirick
Gull sp.				
09-03	3000	Seabrook	Hampton Harbor	S. Mirick
Caspian Tern				
09-23	9	N. Hampton	N. Hampton State Beach	S. Mirick, T. Donsker
10-14	2	Rye	Foss Beach, n. end	A.& B. Delorey
Roseate Tern				
08-01	5	Rye	White & Seavey Is.	D. Hayward, M. Charette
08-04	11	Rye	White & Seavey Is.	D. Hayward, M. Charette
08-12	5	Rye	White & Seavey Is.	D. DeLuca
Common Tern				
08-03	1000	Rye	White & Seavey Is.	D. Hayward, M. Charette
08-06	1000	Rye	White & Seavey Is.	M. Charette, V. Saint-Amant
08-11	1000	Rye	White & Seavey Is.	M. Charette, V. Saint-Amant, D. DeLuca
08-14	300	Rye	White & Seavey Is.	D. DeLuca
08-17	50	Rye	White & Seavey Is.	D. Hayward, M. Charette, V. Saint-Amant
09-04	1060	Seabrook	mussel beds	A.& B. Delorey
09-15	600	Hampton	NH coast	S. Mirick
09-30	12	Rye	Rye Ledge	S. Mirick, Maine Audubon FT
Arctic Tern				
08-02	2	Rye	White & Seavey Is.	D. Hayward, M. Charette
08-04	2	Rye	White & Seavey Is.	D. Hayward, M. Charette

<i>Date</i>	<i>#</i>	<i>town</i>	<i>location</i>	<i>observer(s)</i>
Forster's Tern				
08-18	1		Jeffreys Ledge	A.& B. Delorey
09-02	1	Rye	Ragged Neck	A.& B. Delorey
09-15	2	Hampton	Bicentennial Park	S. Mirick
Sooty Tern				
08-11	1	Rye	Seavey Is., Isles of Shoals	M. Charette, V. Saint-Amant, D. DeLuca
Black Tern				
09-16	1	N. Hampton	N. Hampton State Beach	S. Mirick

Alcids through Starling

A juvenile Black Guillemot reported from New Castle on August 18 is a very intriguing find, since this species is only known to nest locally on the Isles of Shoals. Could they be nesting on an island near the mouth of the Piscataqua River?

Five Northern Saw-whet Owls were reported for the fall; however, the two reports from Stratham were birds that were hit and killed by cars. Eastern Screech-Owls have always been an enigmatic species, with only widely scattered reports from the southern part of the state and very few nesting records. Some random censusing in the sea-coast region produced two individuals in Portsmouth from previously unreported locations. Relatively few Common Nighthawks were counted in migration; however, a late bird was noted on Star Island on September 22.

A Black-backed Woodpecker in Nelson was unusually far south in the state for this northern New Hampshire species. Eight Northern Shrikes was above average but well off last year's irruptive fall, and a Western Kingbird showed up for one day at the Pease International Tradeport in Newington, where the species has been reported in the past.

A peak in Red-eyed Vireo migrants offshore can be seen by the highest banding totals from Star Island on September 3 and 4, when a total of 33 birds were banded, and a late Blue-headed Vireo lingered into November in Holderness. A Purple Martin reported in August on Star Island was rumored to have been on the Isles of Shoals in the summer as well.

<i>Date</i>	<i>#</i>	<i>town</i>	<i>location</i>	<i>observer(s)</i>
Dovekie				
11-04	1	Rye	Ragged Neck	S. Mirick, J. Mittermeier
11-19	1	Rye	Ragged Neck	S. Mirick, J. Mittermeier
Razorbill				
11-04	3		NH coast	S. Mirick, J. Mittermeier
11-13	1	Rye	Pulpit Rocks	D.& T. Donsker
11-19	2	Hampton	NH coast	S. Mirick, J. Mittermeier

<i>Date</i>	<i>#</i>	<i>town</i>	<i>location</i>	<i>observer(s)</i>
11-20	1	Rye	Pulpit Rocks	D. Donsker
11-20	1	Rye	Pulpit Rocks	S. Mirick, D. Hughes
11-24	1	Rye	Ragged Neck	A.& B. Delorey
11-25	2	Rye	Pulpit Rocks	A.& B. Delorey
Black Guillemot				
08-18	1	New Castle	Little Harbor	A.& B. Delorey
08-23	1	Rye	Star Is., Isles of Shoals	R. Suomala, M. Libby
09-02	1	Rye	Pulpit Rocks	A.& B. Delorey
11-18	12	Rye	Pulpit Rocks	A.& B. Delorey, BBC FT
11-21	4	Rye	Pulpit Rocks	D. Donsker
11-24	3	Rye	Pulpit Rocks	A.& B. Delorey
Black-billed Cuckoo				
08-07	1	Newbury	residence	P. Newbern
08-16	1	Rye	banded, Star Is. Banding Station	R. Suomala, et al.
08-17	1	Alton	Knights Pond	R. Woodward
09-17	1	Rye	banded, Star Is. Banding Station	R. Suomala, et al.
09-25	1	Newington	Great Bay NWR	A.& B. Delorey
Yellow-billed Cuckoo				
09-04	1	Rye	banded, Star Is. Banding Station	R. Suomala, et al.
09-24	1	Rye	banded, Star Is. Banding Station	R. Suomala, et al.
Eastern Screech-Owl				
10-06	1	Portsmouth	Little Harbor Road	S. Mirick, J. Matthews
10-20	1	Portsmouth	Clough Dr.	S. Mirick
Snowy Owl				
11-08	1	Laconia	Bartlett Beach, Winnisquam Ave., Lake Winnisquam	J. Smith
Northern Saw-whet Owl				
11-04	1	Stratham	Rt. 108	S. Mirick
11-07	2	Durham	Dame Rd.	S. Mirick
11-12	1	Moultonborough	Unsworth Preserve	T. Vazzano
11-24	1	Stratham	Rt. 33	S. Mirick
Common Nighthawk				
08-02	1	Concord	Old Turnpike Rd.	K. Palfy
08-02	1	Manchester	Sagamore St.	H. Chary
08-03	1	Keene	Hannaford's	M. Wright
08-05	1	Concord	over N. Main St.	R.& M. Suomala
08-22	13	Keene	Colony Mill	M. Wright
08-25	11	Chester	Hillside Haven	A.& B. Delorey
08-31	25	Peterborough		E. Masterson
09-02	1	Kensington	Rt. 107 residence	G. Gavutis Jr.
09-22	1	Rye	Star Is., Isles of Shoals	R. Suomala, D. Hayward
Whip-poor-will				
09-12	1	Rumney	Buffalo Rd. fields along Baker R.	B. Berti
Chimney Swift				
08-21	2	Rye	Star Is., Isles of Shoals	R.& M. Suomala
08-23	100	Nashua	Main St., downtown	B.& J. Ayer

<i>Date</i>	<i>#</i>	<i>town</i>	<i>location</i>	<i>observer(s)</i>
Ruby-throated Hummingbird				
08-05	1	Rye	White & Seavey Is.	D. Hayward, M. Charette, V. Saint-Amant
09-23	2	Plymouth	Pine Gate Rd.	J. & R. Williams
09-23	1	Hanover	Blueberry Hill residence	K. Kluge, T. Rosenmeier
09-24	1	Exeter	residence	G. Prazar
09-30	1	Rye	Odiorne Pt. St. Pk.	S. Mirick, Maine Audubon FT
Red-bellied Woodpecker				
09-18	1	Nashua	Spit Brook Rd.	A. Delorey
09-28	1	Kingston	Red Maple swamp on wnw. side of Country Pond	M. Milligan
09-28	1	Nashua	Spit Brook Rd.	A. Delorey
10-01	1	Rye	Star Is., Isles of Shoals	R. Suomala
10-11	1	Hudson	Griffin Rd. residence	J. & L. Kegley
10-21	1	Stratham	Sandy Pt.	R. Quinn, ASNH FT
10-21	1	Newington	Great Bay NWR	R. Quinn, ASNH FT
10-23	1	Chester	Harantis Lake Rd.	B. Taffe
11-24	1	Bow	off Grandview Rd.	H. Roberts
Yellow-bellied Sapsucker				
09-27	1	Rye	banded, Star Is. Banding Station	R. Suomala, et al.
10-03	1	Gilsum	Hammond Hollow	M. Wright
10-07	1	Gilmanton	Middle Route	B. Sens
10-21	1	Newington	Great Bay NWR	R. Quinn, ASNH FT
Downy Woodpecker				
09-30	1	Rye	banded, Star Is. Banding Station	R. Suomala, et al.
Black-backed Woodpecker				
08-09	1	Dummer	Pond Brook	C. Martin
09-22	1	Bethlehem	Trudeau Rd.	B. Taffe
09-30	1	Pittsburg	Fourth Connecticut Lake	L. Jones, D. Govatski
11-04	1	Carroll	Mt. Tom summit, Crawford Notch	B. Hill
11-20	1	Nelson	Nelson Common Rd., near town sq.	E. Lloyd, D. Gibbons
Northern Flicker				
09-05	1	Rye	banded, Star Is. Banding Station	R. Suomala, et al.
09-22	7	Rye	Star Is., Isles of Shoals	R. Suomala, D. Hayward
09-29	7	Rye	Star Is., Isles of Shoals	R. Suomala, M. Libby
11-11	2	Laconia	Elm St., Laconia CC	H. Anderson
11-30	1	Sandwich	Diamond Ledge Rd.	T. Vazzano
Olive-sided Flycatcher				
08-15	1	Pittsburg	w. of Terrill Dam on w. branch of Trudian Stream	D. Wells
08-31	1	Tamworth	residence	J. Tewksbury
Eastern Wood-Pewee				
08-20	1	Rye	banded, Star Is. Banding Station	R. Suomala, et al.
09-25	1	Rye	banded, Star Is. Banding Station	R. Suomala, et al.
09-29	1	Rye	Star Is., Isles of Shoals	R. Suomala

<i>Date</i>	<i>#</i>	<i>town</i>	<i>location</i>	<i>observer(s)</i>
Yellow-bellied Flycatcher				
09-02	1	Rye	banded, Star Is. Banding Station	R. Suomala, et al.
09-14	1	Errol	Eames Rd.	R. Quinn, M. Sousa
09-19	1	Moultonborough	Markus WS	B. Bruni
09-22	1	Rye	banded, Star Is. Banding Station	R. Suomala, et al.
Trail's Flycatcher sp. (Willow/Alder)				
08-17	1	Rye	banded, Star Is. Banding Station	R. Suomala, et al.
Least Flycatcher				
09-16	1	Holderness	US Forest Service lot	J. Williams
09-30	1	Rye	banded, Star Is. Banding Station	R. Suomala, et al.
Empidonax sp.				
09-13	1	Wentworths Location; Route 16		R. Quinn
Eastern Phoebe				
09-25	15	Northfield	Northfield census route	P. Hunt
10-01	5	Gilsum	Hammond Hollow	M. Wright
10-09	1	New London	County Rd. residence	P. Curtiss
10-13	1	Exeter	wastewater treatment plant ponds	R. Aaronian
Great Crested Flycatcher				
08-20	1	Kensington	Rt. 107 residence	G. Gavutis
08-25	1	Rye	banded, Star Is. Banding Station	R. Suomala, et al.
08-26	1	Gilsum	Hammond Hollow	M. Wright
08-27	1	Holderness	wetlands s. of Rt. 175A	J. Williams
Western Kingbird				
09-22	1	Newington	Pease Int'l. Tradeport	A. & B. Delorey
Eastern Kingbird				
09-02	8	Ashland	Mill Pond	J. Williams
Northern Shrike				
10-26	1	Dummer	Magill Bay	R. Quinn
10-27	1	Piermont	Lake Tarleton, WMNF	J. Williams
10-27	1	Tamworth	Rt. 113 and Bunker Hill Rd.	T. Vazzano
11-11	1	Plymouth	Rt. 3A field	J. Williams
11-18	1	Columbia	residence	B. & D. Killam
11-18	2	Jefferson	Pondicherry WS	D. Govatski
11-22	1	Rochester	wastewater treatment plant	S. Mirick
Yellow-throated Vireo				
09-18	1	Durham	Foss Farm	S. Mirick
Blue-headed Vireo				
09-05	1	Rye	banded, Star Is. Banding Station	R. Suomala, et al.
09-17	10	Northfield	Northfield census route	P. Hunt
09-19	5	Holderness	US Forest Service lot	J. Williams
10-01	11	Northfield	Northfield census route	P. Hunt
10-21	1	Sandwich	Diamond Ledge Rd.	T. Vazzano
11-14	1	Holderness	US Forest Service office	J. Williams, D. Hrdlicka
11-17	1	Holderness	US Forest Service office	J. Williams

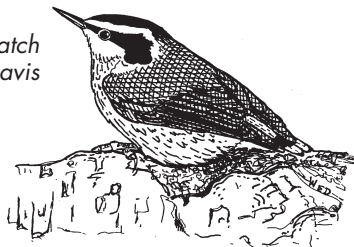
<i>Date</i>	<i>#</i>	<i>town</i>	<i>location</i>	<i>observer(s)</i>
Warbling Vireo				
08-27	1	Rye	banded, Star Is. Banding Station	R. Suomala, et al.
09-08	1	Lyman	Dodge Pond	S. Turner
09-14	1	Holderness	US Forest Service lot	J. Williams
Philadelphia Vireo				
08-27	1	Errol	Thirteen Mile Woods	R. Quinn
09-19	1	Moultonborough	Markus WS	T. Vazzano
Red-eyed Vireo				
08-19	1	Rye	banded, Star Is. Banding Station	R. Suomala, et al.
08-28	5	Sandwich	Diamond Ledge Rd.	T. Vazzano
09-03	19	Rye	banded, Star Is. Banding Station	R. Suomala, et al.
09-04	14	Rye	banded, Star Is. Banding Station	R. Suomala, et al.
09-30	10	Rye	Odiorne Point St. Pk.	S. Mirick, Maine Audubon FT
Gray Jay				
09-10	1	Pittsburg	Scott Bog Dam	D. Govatski
10-02	1	Waterville Valley	Mt. Tecumseh summit, WMNF	B. Blasi, B. Duffy, M. Libby, C. Carr
10-03	2	Errol	Black Island Cove	R. Quinn, M. Sousa, L. Wunder
10-03	2	Errol	Route 16	R. Quinn
11-16	2	Errol	feeder	R. Quinn
Common Raven				
08-06	1	Exeter	wastewater treatment plant	R. Woodward
09-13	1	Kensington	Rt. 107 residence	G. Gavutis Jr.
10-15	7	Gilsum	Hammond Hollow	M. Wright
Horned Lark				
09-22	8	Portsmouth	Pease Int'l. Tradeport	A.& B. Delorey
11-04	18	Portsmouth	Pease Int'l. Tradeport	A.& B. Delorey
Purple Martin				
08-15	1	Rye	Star Is., Isles of Shoals	R.& M. Suomala
08-24	1	Rye	Star Is., Isles of Shoals	R. Suomala, M. Libby
Tree Swallow				
08-21	16	Rye	Star Is., Isles of Shoals	R.& M. Suomala
09-02	300	Seabrook	mussel beds	A.& B. Delorey
09-03	500	Seabrook	Seabrook Marshes	S. Mirick
Northern Rough-winged Swallow				
08-19	20	Seabrook	mussel beds	A.& B. Delorey
Bank Swallow				
08-21	1	Rye	Star Is., Isles of Shoals	R.& M. Suomala
Barn Swallow				
08-04	20	Rye	White & Seavey Is.	D. Hayward, M. Charette
10-15	2	Exeter	wastewater treatment plant	S. Mirick, J. Matthews
Boreal Chickadee				
08-06	6	Thompson & Meserves Purchase	Caps Ridge Trail, WMNF	J. Williams

<i>Date</i>	<i>#</i>	<i>town</i>	<i>location</i>	<i>observer(s)</i>
08-09	3	Dummer	Pond Brook	C. Martin
11-06	2	Jefferson	Little Cherry Pond	D. Govatski

Red-breasted Nuthatch

08-27	29	Errol	Thirteen Mile Woods	R. Quinn
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*Red-breasted Nuthatch
by William E. Davis*



Carolina Wren

08-18	1	Gilsum	Hammond Hollow	M. Wright
10-15	1	Northfield	Johnson Rd.	P. Hunt
11-15	1	Concord	Jensen's Pk., Manchester St.	B. Sutherland

House Wren

08-18	4	Gilsum	Hammond Hollow	M. Wright
08-26	4	Concord	Horseshoe Pond	J. Williams
09-29	2	Rye	banded, Star Is. Banding Station	R. Suomala, et al.
10-09	4	Rumney	Quincy Bog	B. Taffe

Winter Wren

08-05	5	Bethlehem	Trudeau Rd. area, WMNF	J. Williams
09-06	1	Lancaster	Weeks St. Pk.	S. & M. Turner, et al.
09-18	1	Thornton	Sandwich Notch Rd.	J. Williams
09-27	2	Waterville Valley	Hardy Brook, WMNF	J. Williams
11-25	1	Northfield	Northfield census route	P. Hunt

Marsh Wren

09-18	1	Rye	banded, Star Is. Banding Station	R. Suomala, et al.
10-08	1	Exeter	Powder House Pond	R. Aaronian

Golden-crowned Kinglet

09-22	1	Rye	banded, Star Is. Banding Station	R. Suomala, et al.
09-25	27	Rye	banded, Star Is. Banding Station	R. Suomala, et al.
09-29	24	Rye	banded, Star Is. Banding Station	R. Suomala, et al.

Ruby-crowned Kinglet

08-05	1	Bethlehem	Trudeau Rd. area, WMNF	J. Williams
09-25	9	Rye	banded, Star Is. Banding Station	R. Suomala, et al.
09-27	8	Sandwich	Thompson WS	T. Vazzano, B. Bruni
09-29	11	Rye	banded, Star Is. Banding Station	R. Suomala, et al.
10-01	6	Northfield	Northfield census route	P. Hunt
10-03	6	Gilsum	Hammond Hollow	M. Wright
10-04	9	Errol	Greenough Pond Road	R. Quinn
10-17	30	Holderness	US Forest Service office	J. Williams
10-23	5	Rumney	Quincy Bog	B. Taffe
11-12	1	Gilsum	Hammond Hollow	M. Wright

<i>Date</i>	<i>#</i>	<i>town</i>	<i>location</i>	<i>observer(s)</i>
Blue-gray Gnatcatcher				
09-27	1	Sandwich	Thompson WS	T. Vazzano, B. Bruni
Eastern Bluebird				
08-19	17	Gilsum	Hammond Hollow	M. Wright
08-22	16	Haverhill	Rt. 25 & Limekiln Rd., E. Haverhill	J. Williams, J. Gilsdorf
09-22	20	Plymouth	Pine Gate Rd.	J. & R. Williams
10-02	27	Rumney	Baker R. fields	B. Berti
10-05	20	Sandwich	Diamond Ledge Rd.	T. Vazzano
10-21	20	Newington	Great Bay NWR	R. Quinn, ASNH FT
11-01	15	Rye	West Rd., West Rye	B. & H. Blanchard
11-18	3	Greenland	Great Bay	A. & B. Delorey, BBC FT
11-24	2	Rye	Rye Harbor	A. & B. Delorey
11-25	3	Atkinson	residence	J. Romano
Veery				
08-30	1	Gilsum	Hammond Hollow	M. Wright
Gray-cheeked/Bicknell's Thrush sp.				
10-06	2	Portsmouth	near downtown	S. Mirick, J. Matthews
Swainson's Thrush				
09-20	10	Northfield	Park St.	P. Hunt
10-06	50	Portsmouth	near downtown	S. Mirick, J. Matthews
10-21	1	Northfield	Northfield census route	P. Hunt
10-28	1	New Hampton	Edgerly Rd.	J. Williams
Hermit Thrush				
08-05	5	Bethlehem	Trudeau Rd.	J. Williams
11-06	2	Thornton	West Branch Brook Rd.	J. Williams
11-17	1	Jefferson	e. of Little Cherry Pond	D. Govatski, C. Bretton
11-25	1	Chichester	Horse Corner Rd.	M. Reinhardt
11-30	1	Canterbury	Baptist Hill Rd.	R. Quinn
11-30	1	Benton	Oliverian Pond Rd.	J. Williams, J. Haartz
Wood Thrush				
09-20	1	Northfield	Park St.	P. Hunt
09-29	1	Gilsum	Hammond Hollow	M. Wright
Brown Thrasher				
08-27	2	Plymouth	Pine Gate Rd.	J. & R. Williams
09-29	1	Rye	banded, Star Is. Banding Station	R. Suomala, et al.
10-02	2	Plymouth	Beech Hill Rd.	J. & R. Williams
European Starling				
11-08	8000	Portsmouth	Great Bog blackbird roost	S. Mirick, et al.

Pipit through Warblers

In contrast to last year's excellent incursion of Bohemian Waxwings, none was reported this fall. A report of two adult Palm Warblers feeding two young in a tamarack bog in Dummer on August 8 is confirmation of breeding for this species, which has only recently been added to the list of breeding birds in the state. Bob Quinn had

some nice numbers of warblers in Errol on August 27, highlighted by 22 Northern Parulas, 19 Black-throated Green Warblers, nine Blackburnian Warblers, and eight Black-throated Blue Warblers. Once again, Yellow-breasted Chats were found on Star Island in huge numbers. The 28 individuals banded for the fall is just slightly less than last year's total of 31. None was reported from any other part of the state. What causes this southern warbler to wander north along the coast during the fall?

There was a rare fall report of a Yellow-throated Warbler, singing its distinctive song continuously, from Chichester on August 7. Unfortunately, it eluded observation. Other rare warblers include a Connecticut Warbler from Sandwich on September 19, a western subspecies of the Nashville Warbler reported from Northfield on October 29, and a remarkably late record from a very unusual location of a female Hooded Warbler on November 21 from Hanover. This sighting was from close range, and the bird was seen actively fanning its tail, exposing its white tail spots.

<i>Date</i>	<i>#</i>	<i>town</i>	<i>location</i>	<i>observer(s)</i>
American Pipit				
09-19	2	Meredith	Moulton Farm, Cressey Rd.	J. Merrill
09-23	3	Holderness	Outback Driving Range	J. Williams, R. Smith
10-01	31	Plymouth	Fairgrounds Rd. field	J. Williams
10-04	20	Errol		R. Quinn
10-05	100	Sandwich	Whiteface Intervale	T. Vazzano, B. Bruni
10-30	30	Haverhill	Connecticut R.	C. Martin, J. Kanter, N. Parr
11-03	2	Greenland	Sunset Landing	A.& B. Delorey
11-07	2	Rochester	wastewater treatment plant	S. Mirick
11-19	1	Exeter	wastewater treatment plant	A.& B. Delorey
Cedar Waxwing				
11-05	120	Plymouth	Silver Hall	J. Williams
11-30	250	Laconia	Wildwood Rd.	H. Anderson
Blue-winged Warbler				
08-18	1	Rye	banded, Star Is. Banding Station	R. Suomala, et al.
Tennessee Warbler				
09-09	1	Newbury	residence	P. Newbern
09-17	1	Holderness	Cairns Cove, Squam Lake	J. Williams
09-27	1	Holderness	US Forest Service lot	J. Williams
09-30	1	Sandwich	Diamond Ledge Pond	T. Vazzano
10-04	2	Holderness	US Forest Service lot	J. Williams
Orange-crowned Warbler				
10-17	1	Sandwich	Whiteface Intervale	T. Vazzano
Nashville Warbler				
08-06	3	Thompson & Meserves Purchase	Caps Ridge Trail, WMNF	J. Williams
08-19	3		grade to Pondicherry WS	J. Williams
09-14	3	Thornton	Talford Brook, WMNF	J. Williams
09-17	5	Newbury	residence	P. Newbern
09-19	5	Holderness	US Forest Service lot	J. Williams, J. Mulherin
09-25	3	Northfield	Northfield census route	P. Hunt
10-01	5	Northfield	Northfield census route	P. Hunt
10-01	3	New London	Hilltop yard	H.& P. Damon

<i>Date</i>	<i>#</i>	<i>town</i>	<i>location</i>	<i>observer(s)</i>
Nashville Warbler — continued				
10-17	1	Holderness	US Forest Service office	J. Williams
10-17	1	Sandwich	Whiteface Intervale	T. Vazzano
11-11	1	Concord	Horseshoe Pond	R. Quinn
Nashville Warbler — western subspecies				
10-29	1	Northfield	abandoned RR tracks by Winnepesaukee R.	P. Hunt
Northern Parula				
08-27	22	Errol	Thirteen Mile Woods	R. Quinn
09-13	2	Holderness	US Forest Service lot	J. Williams, G. Duffy
09-22	3	Newington	Great Bay NWR	A.& B. Delorey
09-25	2	Northfield	Northfield census route	P. Hunt
09-29	1	Rye	banded, Star Is. Banding Station	R. Suomala, et al.
Yellow Warbler				
08-06	4	Rye	White & Seavey Is.	M. Charette, V. Saint-Amant
08-30	1	Holderness	Forest Service office	J. Williams
09-02	1	Ashland	Mill Pond	J. Williams
09-14	1	Errol	Eames Road	R. Quinn, M. Sousa
09-23	1	Rye	banded, Star Is. Banding Station	R. Suomala, et al.
Chestnut-sided Warbler				
08-27	5	Sandwich	Diamond Ledge Rd.	T. Vazzano
09-19	1	Holderness	US Forest Service lot	J. Williams
09-29	1	Rye	banded, Star Is. Banding Station	R. Suomala, et al.
Magnolia Warbler				
08-05	3	Bethlehem	Trudeau Rd. area, WMNF	J. Williams
08-17	1	Rye	banded, Star Is. Banding Station	R. Suomala, et al.
08-19	3	Whitefield	trail to Pondicherry WS	J. Williams
08-31	10	Sandwich	Guinea Pond Trail	T. Vazzano, B. Bruni
09-17	11	Northfield	Northfield census route	P. Hunt
09-19	12	Sandwich	Thompson WS	T. Vazzano, B. Bruni
09-22	4	Newington	Great Bay NWR	A.& B. Delorey
09-26	5	Holderness	US Forest Service lot	J. Williams
10-04	1	Holderness	US Forest Service lot	J. Williams
10-08	1	Sandwich	Rt. 113	T. Vazzano, R. Ridgely
Cape May Warbler				
08-19	1	Whitefield	trail to Pondicherry WS	J. Williams
08-27	1	Errol	Thirteen Mile Woods	R. Quinn
08-28	1	Rye	banded, Star Is. Banding Station	R. Suomala, et al.
09-02	1	Rye	Star Is., Isles of Shoals	R. Suomala, J. Weldon
09-07	3	Rye	Star Is., Isles of Shoals	R. Suomala, M. Libby
09-25	1	Rye	banded, Star Is. Banding Station	R. Suomala, et al.
Black-throated Blue Warbler				
08-27	8	Errol	Thirteen Mile Woods	R. Quinn
09-05	2	Concord	Silk Farm Audubon Center	E. Masterson
09-27	2	Sandwich	Thompson WS	T. Vazzano, B. Bruni
09-27	1	New London	Hilltop yard	H.& P. Damon
09-29	4	Rye	Odiorne Pt. St. Pk.	A.& B. Delorey
10-01	1	Gilsum	Hammond Hollow	M. Wright
11-17	1	Nashua		M. Harvey

<i>Date</i>	<i>#</i>	<i>town</i>	<i>location</i>	<i>observer(s)</i>
Yellow-rumped Warbler				
09-02	1	Rye	Star Is., Isles of Shoals	R. Suomala, J. Weldon
09-26	50	Barrington	Mendum's Pond, Al Wood Dr.	T. & L. Chase
09-26	40	Sandwich	Thompson W S	T. Vazzano
09-29	69	Rye	banded, Star Is. Banding Station	R. Suomala, et al.
10-01	50	Plymouth	Fairgrounds Rd., Loon Lake Rd., Smith Bridge Rd.	J. Williams
10-01	65	Northfield	Northfield census route	P. Hunt
10-04	125	Holderness	US Forest Service lot	J. Williams, P. Bellavance
10-07	85	Northfield	Northfield census route	P. Hunt
10-09	50		Seabrook well area	G. Gavutis, Jr.
10-21	100	Newington	Great Bay NWR	R. Quinn, ASNH FT
11-01	1	Holderness	US Forest Service office	J. Williams
11-05	2	Northfield	Northfield census route	P. Hunt
Black-throated Green Warbler				
08-27	19	Errol	Thirteen Mile Woods	R. Quinn
09-13	8	Plymouth	Cooksville Rd.	J. Williams
09-14	13	Errol	Eames Road	R. Quinn, M. Sousa
09-17	11	Northfield	Northfield census route	P. Hunt
09-26	7	Holderness	US Forest Service lot	J. Williams
10-01	1	New London	Hilltop yard	H. & P. Damon
10-04	1	Holderness	US Forest Service lot	J. Williams
Blackburnian Warbler				
08-27	4	Sandwich	Diamond Ledge Rd.	T. Vazzano
08-27	9	Errol	Thirteen Mile Woods	R. Quinn
09-09	2	Newbury	residence	P. Newbern
09-19	2	Lancaster	Weeks St. Pk.	S. & M. Turner, et al.
09-26	1	Columbia	residence	D. Killam
09-27	1	Holderness	US Forest Service lot	J. Williams
Yellow-throated Warbler				
08-07	1	Chichester	Smith Sanborn Rd.	R. & M. Suomala
Pine Warbler				
09-18	7	Plymouth	by Pine Gate Rd.	J. Williams
09-19	3	Plymouth	Fairground Rd. across from fairgrounds	J. Williams
09-30	1	Rye	Star Is., Isles of Shoals	R. Suomala
10-07	3	Northfield	Northfield census route	P. Hunt
Prairie Warbler				
08-20	1	Rye	Star Is., Isles of Shoals	R. & M. Suomala
08-21	1	Rye	banded, Star Is. Banding Station	R. Suomala, et al.
09-23	1	Rye	banded, Star Is. Banding Station	R. Suomala, et al.
09-23	1	Rye	Star Is., Isles of Shoals	R. Suomala, et al.
Palm Warbler				
08-08	4	Dummer	tamarack bog n. of Pontook Res.	C. Martin
08-28	1	Rye	Star Is., Isles of Shoals	R. Suomala, et al.
09-07	1	Sandwich	Thompson WS	T. Vazzano, B. Bruni
09-26	35	Sandwich	Thompson WS	T. Vazzano
09-30	1	Holderness	wetlands s. of Rt. 175A	J. Williams
09-30	6	Rye	Star Is., Isles of Shoals	R. Suomala, M. Libby
10-01	75	Jefferson	Pondicherry WS	D. Govatski, C. Bretton

<i>Date</i>	<i>#</i>	<i>town</i>	<i>location</i>	<i>observer(s)</i>
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Palm Warbler — continued

11-24	1	Rye	Rt. 1A near Seal Rocks	G.& A. Prazar
11-25	1	Hampton	Island Path Rd.	S. Mirick, D. Abbott

Bay-breasted Warbler

08-27	1	Errol	Thirteen Mile Woods	R. Quinn
09-02	1	Rye	Star Is., Isles of Shoals	R. Suomala, J. Weldon
09-03	1	Rye	banded, Star Is. Banding Station	R. Suomala, et al.
09-07	2	Sandwich	Thompson WS	T. Vazzano, B. Bruni
09-09	1	Newbury	residence	P. Newbern
09-20	1	Nashua	Spit Brook Rd.	A. Delorey
09-27	2	Rye	Star Is., Isles of Shoals	R. Suomala, M. Libby

Blackpoll Warbler

09-03	4	Rye	banded, Star Is. Banding Station	R. Suomala, et al.
09-17	12	Northfield	Northfield census route	P. Hunt
09-27	6	Sandwich	Thompson WS	T. Vazzano, B. Bruni
10-04	1	Holderness	US Forest Service lot	J. Williams
10-07	1	Northfield	Northfield census route	P. Hunt

Black-and-white Warbler

08-20	2	Gilsum	Hammond Hollow	M. Wright
09-26	1	Holderness	US Forest Service lot	J. Williams
09-26	1	Newbury	residence	P. Newbern
10-07	1	Northfield	Northfield census route	P. Hunt

American Redstart

09-05	15	Rye	banded, Star Is. Banding Station	R. Suomala, et al.
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Ovenbird

09-25	1	Northfield	Northfield census route	P. Hunt
09-26	1	Rye	banded, Star Is. Banding Station	R. Suomala, et al.
10-02	1	Gilsum	Hammond Hollow	M. Wright

Northern Waterthrush

08-05	2	Bethlehem	Trudeau Rd. area, WMNF	J. Williams
08-07	1	Rye	White & Seavey Is.	M. Charette, V. Saint-Amant
09-23	1	Rye	Odiorne Pt. St. Pk.	A.& B. Delorey, BBC FT

Connecticut Warbler

09-19	1	Sandwich	Thompson WS	B. Bruni, T. Vazzano
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Mourning Warbler

09-19	1	Moultonborough	Markus WS	T. Vazzano, B. Bruni
09-24	1	Rye	banded, Star Is. Banding Station	R. Suomala, et al.

Common Yellowthroat

08-19	10		trail to Pondicherry WS	J. Williams
09-13	26	Rye	banded, Star Is. Banding Station	R. Suomala, et al.
10-04	1	Holderness	US Forest Service lot	J. Williams

Hooded Warbler

09-24	1	Rye	Star Island Banding Station	R.& M. Suomala, D. Hayward, S. Mirick
11-21	1	Hanover	Parker House, Dartmouth College	J. Wright

<i>Date</i>	<i>#</i>	<i>town</i>	<i>location</i>	<i>observer(s)</i>
Wilson's Warbler				
08-21	1	Derry	Ballard Marsh	A. Delorey
08-29	1	Holderness	US Forest Service office	J. Williams
09-03	9	Rye	banded, Star Is. Banding Station	R. Suomala, et al.
09-19	2	Holderness	US Forest Service lot	J. Williams
09-20	2	Sandwich	Whiteface Intervale	T. Vazzano, B. Bruni
09-22	1	Newington	Great Bay NWR	A. & B. Delorey
09-24	1	Holderness	US Forest Service office	J. Williams
09-25	1	Rye	banded, Star Is. Banding Station	R. Suomala, et al.
10-02	1	Derry	Ballard Marsh	A. Delorey

Canada Warbler

08-19	2	Whitefield	trail to Pondicherry WS	J. Williams
08-27	3	Errol	Thirteen Mile Woods	R. Quinn
08-30	1	Gilsum	Hammond Hollow	M. Wright
08-31	3	Sandwich	Guinea Pond Trail	T. Vazzano, B. Bruni
09-04	2	Rye	banded, Star Is. Banding Station	R. Suomala, et al.
09-19	1	Holderness	US Forest Service lot	J. Williams

Yellow-breasted Chat

August 20	Rye	banded, Star Is. Banding Station	R. Suomala, et al.
September 8	Rye	banded, Star Is. Banding Station	R. Suomala, et al.

Warbler sp.

09-26	100	Sandwich	Thompson WS	T. Vazzano
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Scarlet Tanager

08-30	1	Kensington	Rt. 107 residence	G. Gavutis
09-19	1	Lancaster	Weeks St. Pk.	S. & M. Turner, et al.
09-19	1	Plymouth	Fairground Rd. by the fairgrounds	J. Williams
09-29	1	Rye	Star Is., Isles of Shoals	R. Suomala

Eastern Towhee

09-17	4	Northfield	Northfield census route	P. Hunt
10-09	1	Kensington	Seabrook well area	G. Gavutis, Jr.
10-09	1	Kensington	Rt. 107 residence	G. Gavutis Jr.
10-15	2	Northfield	Northfield census route	P. Hunt

Sparrow, Blackbirds, and Finches

Sparrows were reported in typical numbers for the fall, with the only rarities reported from the Isles of Shoals. Rebecca Suomala banded two Lark Sparrows and three Dickcissels, which was very unusual. A very early Lapland Longspur was also seen and photographed on the island. Inland reports from Sandwich of Lapland Longspur were also noteworthy, as this species is most often seen along the coast.

Several observers witnessed the spectacular evening flight of blackbird swarming into the Great Bog in Portsmouth at dusk during early November. This observer attempted to count the roost on November 8 and estimated over 75,000 "blackbirds," primarily Common Grackles.

Orchard Orioles are usually one of the earliest migrants, often leaving the state by the end of July. Therefore, the two banded on August 22 and September 21 on Star Island represent very unusual records. Finches had a mixed fall, with good numbers of

crossbills and siskins, but relatively few Evening Grosbeaks and no Pine Grosbeaks or Common Redpolls reported at all.

<i>Date</i>	<i>#</i>	<i>town</i>	<i>location</i>	<i>observer(s)</i>
American Tree Sparrow				
09-29	3	Plymouth	Pine Gate Rd.	R. Williams
10-21	1	Northfield	Northfield census route	P. Hunt
11-01	1	Holderness	US Forest Service office	J. Williams
11-02	3	Sandwich	Thompson WS	T. Vazzano
11-05	16	Northfield	Northfield census route	P. Hunt
11-19	3	Holderness	Cotton Mtn. trailhead	J. Williams
Chipping Sparrow				
08-24	12	Gilsum	Hammond Hollow	M. Wright
09-16	15	Holderness	US Forest Service lot	J. Williams
09-19	30	Plymouth	Fairgrounds Rd. residence	J. Williams
11-05	1	Northfield	Northfield census route	P. Hunt
Field Sparrow				
09-03	1	Canterbury	Baptist Hill Rd.	R. Quinn
09-10	2	Gilsum	Hammond Hollow	M. Wright
09-16	2	Holderness	US Forest Service lot	J. Williams
10-15	2	Chester	Hillside Haven	A.& B. Delorey
11-04	1	Newington	Great Bay NWR	D.& T. Donsker
Vesper Sparrow				
09-04	1	Sandwich	Rt. 113 gravel pit	T. Vazzano, R. Ridgely
09-22	1	Newington	Pease Int'l. Tradeport	A.& B. Delorey
10-07	1	Northfield	Schribner Rd.	P. Hunt
Lark Sparrow				
09-04	1	Rye	Star Is., Isles of Shoals	R. Suomala, D. Holmes
09-14	1	Rye	Star Is., Isles of Shoals	R. Suomala, D. Hayward
Savannah Sparrow				
09-03	15	Plymouth	Smith Bridge Rd. field	J. Williams
09-09	7	Concord	Horseshoe Pond	J. Williams
10-17	8	Sandwich	fairgrounds	T. Vazzano
Nelson's Sharp-tailed Sparrow				
11-04	3	Hampton	marshes behind Sunset Condominiums	S. Mirick, J. Mittermeier
Seaside Sparrow				
08-19	1	Hampton	Hampton Marsh	A.& B. Delorey
Fox Sparrow				
10-25	1	Whitefield	Pondicherry WS access	R. Quinn, J. Berry
10-27	1	Warren	Ore Hill Mine, WMNF	J. Williams, N. Clite
11-09	1	Canterbury	Baptist Hill Rd.	R. Quinn
11-14	2	Sandwich	fairgrounds	T. Vazzano
11-15	2	Thornton	Laudermat Rd.	J. Williams, D. Hrdlicka
Lincoln's Sparrow				
09-07	1	Rye	banded, Star Is. Banding Station	R. Suomala, et al.
09-20	1	Sandwich	Thompson WS	T. Vazzano, B. Bruni
09-25	3	Northfield	Northfield census route	P. Hunt

<i>Date</i>	<i>#</i>	<i>town</i>	<i>location</i>	<i>observer(s)</i>
09-30	1	Auburn	Massabesic Audubon Center	A.& B. Delorey
09-30	1	Canterbury	Baptist Hill Rd.	R. Quinn
10-01	1	Plymouth	Loon Lake Rd.	J. Williams
10-08	1	Chester	Hillside Haven	A.& B. Delorey

Swamp Sparrow

09-27	15	Sandwich	Thompson WS	T. Vazzano, B. Bruni
10-05	50	Sandwich	Thompson WS	T. Vazzano, B. Bruni
11-05	1	Northfield	Northfield census route	P. Hunt

White-throated Sparrow

09-10	1	Rye	banded, Star Is. Banding Station	R. Suomala, et al.
09-26	35	Waterville Valley	Rt. 49 power line	J. Williams
09-29	25	Rumney	Quincy Bog	B. Taffe
10-05	20	Chester	Hillside Haven	A.& B. Delorey
10-07	38	Northfield	Northfield census route	P. Hunt
10-20	25	Gilsum	Hammond Hollow	M. Wright
11-26	20	Windham	residence	J. Romano

White-crowned Sparrow

09-28	1	Rye	Star Is., Isles of Shoals	R. Suomala, M. Libby
10-05	4	Sandwich	Thomson WS	T. Vazzano, B. Bruni
10-09	20	Rumney	Quincy Bog	B. Taffe
10-15	4	Northfield	Northfield census route	P. Hunt
10-22	4	Plymouth	Loon Lake Rd.	J. Williams

Dark-eyed Junco

09-10	1	Rye	banded, Star Is. Banding Station	R. Suomala, et al.
10-27	30	Warren	Ore Hill Mine WMNF	J. Williams, N. Clite
11-05	51	Northfield	Northfield census route	P. Hunt
11-05	75	Gilsum	Hammond Hollow	M. Wright
11-25	23	Plymouth	Pine Gate Village	J. Williams
11-26	50	Windham	residence	J. Romano
11-27	100	Canterbury	Riverbend CA	R. Quinn

Lapland Longspur

09-18	1	Rye	Star Is., Isles of Shoals	R. Suomala, D. Hayward
10-08	2	Sandwich	Rt. 113 gravel pit	T. Vazzano, R. Ridgely
10-14	2	Rye	Concord Pt.	A.& B. Delorey
10-17	2	Sandwich	Whiteface Intervale	T. Vazzano
11-11	2	Hampton	Hampton Beach St. Pk.	S. Mirick, BBC FT

Snow Bunting

10-27	8	Hampton	Hampton Beach St. Pk.	A.& B. Delorey
10-31	35	Haverhill	Grafton County Farm	C. Martin, J. Kanter, N. Parr
11-03	20	Rochester	wastewater treatment plant	S. Mirick
11-03	150	Hampton	Hampton Beach St. Pk.	A.& B. Delorey
11-04	150	Newington	Pease Int'l. Tradeport	A.& B. Delorey, D.& T. Donsker
11-11	30	Rye	Ragged Neck	D. Donsker
11-11	450	Hampton	Hampton Beach St. Pk.	S. Mirick, BBC FT
11-23	27	Jefferson	marsh near Cherry Pond	D. Govatski
11-30	25	Sandwich	Whiteface Intervale	T. Vazzano

<i>Date</i>	<i>#</i>	<i>town</i>	<i>location</i>	<i>observer(s)</i>
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Rose-breasted Grosbeak

08-19	5	Whitefield	trail to Pondicherry WS	J. Williams
09-09	1	Kensington	Rt. 107 residence	G. Gavutis Jr.
09-29	1	Rye	banded, Star Is. Banding Station	R. Suomala, et al.

Indigo Bunting

09-04	3	Tamworth	The Community School	T. Vazzano
09-29	1	Rye	banded, Star Is. Banding Station	R. Suomala, et al.
09-29	1	Rye	banded, Star Is. Banding Station	R. Suomala, et al.
10-15	1	Northfield	Johnson Rd.	P. Hunt

Dickcissel

09-19	1	Rye	banded, Star Is. Banding Station	R. Suomala, D. Hayward
09-22	1	Rye	banded, Star Is. Banding Station	R. Suomala, D. Hayward
09-25	1	Rye	banded, Star Is. Banding Station	R. Suomala, M. Libby

Bobolink

08-15	25	Newmarket	Moody Pt., Lubberland Creek salt marsh	G. Gavutis
08-18	1	Rye	Star Is., Isles of Shoals	R. & M. Suomala
08-24	3	Rye	Star Is., Isles of Shoals	R. Suomala, M. Libby
09-02	20	Rye	Star Is., Isles of Shoals	R. Suomala, J. Weldon
09-04	2	Plymouth	Smith Bridge Rd. field	J. Williams
09-28	1	Rye	Star Is., Isles of Shoals	R. Suomala, M. Libby

Red-winged Blackbird

10-07	61	Northfield	Northfield census route	P. Hunt
10-31	150	Exeter	Phillips Exeter Academy campus	R. Aaronian
11-01	65	Plymouth	Quincy Rd.	J. Williams
11-17	3500	New Boston	Bedford Rd.	C. Carr

Eastern Meadowlark

10-12	7	Chester	Hillside Haven	B. Delorey
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Rusty Blackbird

10-01	6	Jefferson	Cherry Pond	D. Govatski
10-01	1	Rye	Star Is., Isles of Shoals	R. Suomala
10-02	6	Derry	Ballard Marsh	A. Delorey
10-04	6	Errol	Greenough Pond Rd.	R. Quinn
10-08	2	Sandwich	Thompson WS	T. Vazzano, R. Ridgely
10-09	14	Whitefield	airport	D. Govatski, C. Bretton
10-09	3	Tilton	Noyes Rd.	P. Hunt
10-22	7	Plymouth	Rt. 3 pine stand	J. Williams

Common Grackle

08-24	850	Lyman	Hurd Hill Rd.	S. & M. Turner
10-15	2000	Chester	Hillside Haven	A. & B. Delorey
10-26	3000	Chester	Hillside Haven	A. & B. Delorey
11-03	50,000	Newmarket	Great Bay	S. Mirick
11-05	3000	Wilton	Abbott Hill Acres	J. Broyles
11-08	66,523	Portsmouth	Great Bog blackbird roost	S. Mirick, et al.

Orchard Oriole

08-22	1	Rye	banded, Star Is. Banding Station	R. Suomala, et al.
09-21	1	Rye	Star Is., Isles of Shoals	R. Suomala, D. Hayward

<i>Date</i>	<i>#</i>	<i>town</i>	<i>location</i>	<i>observer(s)</i>
Baltimore Oriole				
08-09	6	Kensington	Rt. 107 residence	G. Gavutis
08-31	4	Kensington	Rt. 107 residence	G. Gavutis
08-31	8	Newmarket	Great Bay	S. Mirick
09-04	4	Kensington	Rt. 107 residence	G. Gavutis Jr.
09-23	3	Rye	banded, Star Is. Banding Station	R. Suomala, et al.
09-30	2	Rye	Star Is., Isles of Shoals	R. Suomala, M. Libby
Purple Finch				
10-04	10	Errol	Greenough Pond Rd.	R. Quinn
10-21	10	Northfield	Northfield census route	P. Hunt
10-22	9	Plymouth	Loon Lake Rd.	J. Williams
10-27	12	Warren	Ore Hill Mine, WMNF	J. Williams, N. Clite, H. Karsten
11-16	7	Errol		R. Quinn
11-17	1	Milford	Federal Hill Rd. residence	R.& B. Becker
11-24	16	Sandwich	Diamond Ledge Rd.	T. Vazzano
11-24	1	Plymouth	Fairgrounds Rd.	J. Williams
House Finch				
09-12	5	Nashua	residence	J. Ayer
Red Crossbill				
09-05	3	Lancaster	Weeks St. Pk.	S.& M. Turner, et al.
09-28	16	Sandwich	Thompson WS	T. Vazzano
11-11	3	Holderness	Rattlesnake Mt. Trail	T. Vazzano
11-17	20	Sandwich	Thompson WS	T. Vazzano
White-winged Crossbill				
08-02	2	Benton	Blueberry Mt. Trail, WMNF	J. Williams, J. Gilsdorf
08-04	2	Errol	Mountain Pond drainage	C. Martin, C. Johnson
08-05	50	Bethlehem	Trudeau Rd., WMNF	J. Williams
08-25	25	Errol		R. Quinn
08-31	6	Sandwich	Guinea Pond Trail	T. Vazzano, B. Bruni
10-03	2	Waterville Valley	Mt. Tecumseh Trail	B. Blasi
10-26	6	Lancaster	Weeks St. Pk.	R. Quinn, D. Mallion
11-03	4	Ellsworth	Timber Sale Rd., WMNF	J. Williams
Pine Siskin				
08-27	6	Errol		R. Quinn
10-21	2	Northfield	Northfield census route	P. Hunt
10-25	3	Canterbury	Baptist Hill Rd.	R. Quinn
10-27	32	Warren	Ore Hill Mine, WMNF	J. Williams, H. Karsten
11-16	13	Errol		R. Quinn
11-23	30	Bartlett	top of Cathedral Ledge	C.& J. Tewksbury
11-24	4	Plymouth	Fairgrounds Rd.	J. Williams
11-30	32	Sandwich	Diamond Ledge Rd.	T. Vazzano
Evening Grosbeak				
08-05	1	Gilsum	Hammond Hollow	M. Wright
08-21	2	Gilmanton	Middle Route	B. Sens
09-04	1	Plymouth	Pine Gate Rd.	J.& R. Williams
10-27	2	Warren	Ore Hill Mine, WMNF	J. Williams, H. Karsten
11-03	8	Sugar Hill	residence	J. McIlwaine

Purple Gallinule in Exeter

by John Mittermeier

The evening of Friday, October 13, was my first time at Powder House Pond, which was one of many places I was exploring as a possible birding site around Exeter. I have been birding for two and a half years, and, after my first month at Phillips Exeter Academy, I was eager to find places to continue my interest.

So far I had seen a Pied-billed Grebe, a Northern Mockingbird, and two Marsh Wrens; nothing great, but Powder House Pond looked like a nice spot. No more than 50 yards down the path I noticed some movement in a reed bed. Hoping for a Sharp-tailed Sparrow, I eagerly investigated.

What I saw was anything but a sparrow. A thick chicken-like bill and light olive-brown color made me think Yellow Rail, but with a second look I quickly switched the identification to Common Moorhen. I checked with my National Geographic and rapidly realized that this was no moorhen. I had an immature Purple Gallinule on my hands!

At the time I knew that a Purple Gallinule was rare enough in New Hampshire to warrant my contacting every birder I knew in the state. When I finally learned the true rarity of this sighting I was astonished. My bird was no less than the fifth or maybe sixth record for the state! The first record had been in 1903, and after that, another bird was found on Willand Pond in Dover. The third record was in 1925. This bird was captured and taken to the Franklin Park Zoo in Massachusetts. Then there is an indefinite record of a bird landing on a boat in Portsmouth Harbor in 1973. The last definite occurrence of Purple Gallinule was a juvenile found along a road in Hanover in November 1998. This individual was captured and flown back to Florida!

Despite the fact that their normal range in the U.S. is restricted to Florida and the gulf coast, Purple Gallinules are known to be highly nomadic and occasionally will even go as far north as Canada. In southern Africa they are one of the most regular American vagrants! Since the bird at Powder House Pond was an immature, it would have been inexperienced and undertaking its first migration. It could have easily become disoriented and flown north instead of south. To a tired Purple Gallinule, Powder House Pond is not a bad place to stop. It fits the species' habitat requirements as being wet and marshy with plenty of cover, and since gallinules are very omnivorous, eating anything from fruits to eggs and the young of other birds, food would not be too difficult to find.

After a four-day stay in Exeter the Purple Gallinule disappeared. Where it is now one can only guess, but I do know that during the week of October 27, 10 days after



photo by Stephen R. Mirick

Gallinule — continued on page 37

the bird was last seen at Powder House Pond, an immature Purple Gallinule was reported in Westborough, Massachusetts.

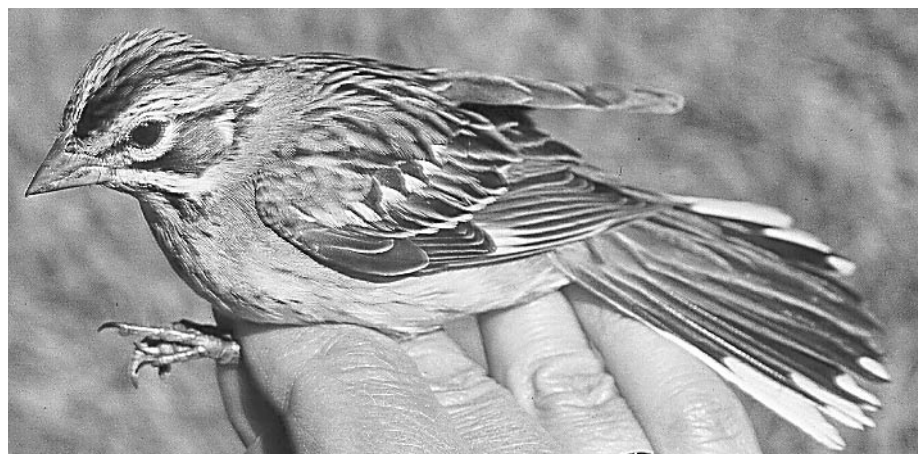
John Mittermeier, now 15, started birding at the age of 12 on a trip to Africa. He now enjoys all aspects of ornithology but is especially interested in the interactions and relationships between different species. He moved to Exeter, New Hampshire, from Boston in September 2000 to attend Phillips Exeter Academy.

Star Island Fall 2000 Bird Banding Summary

by Rebecca Suomala

This fall was the final season for the Star Island Bird Banding Project. It marked the end of the second year of collecting data that I will be analyzing for my masters thesis at the University of New Hampshire. I am very grateful for the support of the many individuals and organizations that have made the project possible. You will be hearing more about the results of the research as my thesis is completed.

The station was open from August 16 through September 30, and we banded 1654 birds, much higher than the 1316 of last year. This year we did not have the stretch of south winds that stalled migration last year, and August saw a steady stream of average days (as compared to last year's nine consecutive days of 13 or fewer birds). We certainly did have our slow days, with only three new birds on a hot day on August 24 and two birds on September 12 — with all nets open all day long. For those of you who have never been to a banding station, the nets must be checked every half hour,



Lark Sparrow
photo by Rebecca Suomala

and on slow days such as these there are a lot of empty net runs, as Dan Hayward and Megan McElroy can attest.

Star continued its reign as the Yellow-breasted Chat capitol of New Hampshire with 28 total, just three fewer than last year. The two Red Bats were very exciting. They are large bats with very brightly colored reddish-brown fur and an almost reddish-pink skin on their wings which is quite striking. Both bats were caught in the early morning and fortunately managed to get out of the nets on their own. Eastern Red Bats are found in New Hampshire forests but these were probably migrants, since some do head south for the winter and few bats of any kind are seen at the Isles of Shoals.

We had a stretch of four very busy days in early September, beginning on the third with 130 birds banded. It was very difficult for me when I received the news on September 15 that my mother's cancer had returned (see the memorial in the Spring 2000 issue of *New Hampshire Bird Records*), but we had some exciting birds, beautiful northern lights, and busy days at the end of September that brought good cheer. Three Dickcissels was a surprise and a Hooded Warbler on September 24 was the rarest bird of the fall. There were a few slow days on September 20 and 21, when gusty south winds stalled migration. Things picked up again on September 23, with 74 birds, and then the kinglet invasion began on September 25, with 27 Golden-crowned and nine Ruby-crowned Kinglets banded. Both species continued to arrive through the end of the month. The big day for the station was September 29 with a record-breaking 166 birds banded, 69 of which were Yellow-rumped Warblers. They had finally arrived, two days later than last year. The next day we had 42 Yellow-rumped, very consistent with last year's pattern. If the station could have been open one more day the Yellow-rumped total would have been close to last year's total of 200. On our last day it was clear and sunny, with kinglets everywhere on the front lawn of the hotel and late warblers foraging for spiders and insects in the cracks and crevices of the buildings. Our last bird for the station was, fittingly, a Yellow-rumped Warbler.

Once again I am very grateful for a wonderful crew of assistants and the help and support of many other individuals who helped make the fall season a success. In addition, the fall season was made possible by support from the Star Island Corporation, the Audubon Society of New Hampshire through the generosity of many donors, and grants from the Eastern Bird Banding Association and the University of New Hampshire Graduate School. In addition this effort would not be possible without the help of the bird banding volunteers at the Appledore Island banding station, which is supported in part by the Shoals Marine Laboratory.

Bird totals

The totals are *preliminary* and will be finalized after the data has been computerized.

1654	New birds banded
255	recaptures of birds banded on Star this fall
21	recaptures of birds banded on Star in a previous season (20 individuals)
9	recaptures of a bird banded on Appledore this fall (7 individuals)
3	recaptures of birds banded on Appledore in a previous season (2 individuals)
1	<u>capture (not banded — Ruby-throated Hummingbird)</u>
1942	birds handled of 73 different species (excluding same-day recaptures)

Most common species:

Common Yellowthroat	169	Yellow Warbler	97
Yellow-rumped Warbler	145	American Redstart	85
Red-eyed Vireo	116	Golden-crowned Kinglet	76
Northern Waterthrush	100	Cedar Waxwing	76

Highlights

Rarities in the nets

Marsh Wren, 1 on 9/18*

Hooded Warbler, 1 on 9/24*

Yellow-breasted Chat, a total of 28 banded

Dickcissel, a total of 3 banded

Lark Sparrow, 2 banded, 9/4 and 9/16*

Orchard Oriole, 1 on 8/22

2 Red Bats in the nets, on 8/28 and 9/25! — the second bat species for the station

Sightings (birds seen at the island but not banded — all first records for the station)

Sanderling, seen several days, high of 8 on 9/18

Black-legged Kittiwake, 1 on 9/11 by Dan Hayward

American Pipit, 1 on 9/29

Lapland Longspur, 1 on 9/18

* — a station record or first

Rebecca Suomala is the Managing Editor of New Hampshire Bird Records and a graduate student with Dr. Kimberly Babbitt at the University of New Hampshire, and a staff member of the Audubon Society of New Hampshire. She is a licensed bird bander under the guidance of Master Bander Dr. Sara Morris, of Canisius College.

Learning to Estimate Flock Size

by Kathie Palfy

I heard them first, then slowly they came: thousands and thousands of grackles, flying low over the rooftops. I tried to estimate how many birds I was seeing. I gave it my best “guesstimate” and entered it on a slip for *New Hampshire Bird Records*.

I can count exactly the numbers of American Goldfinches or Pine Siskins that I watch at my bird feeders because I can usually count them one by one. But what about larger flocks, such as the grackles, when I can't count them individually. How can I learn to estimate their numbers more precisely?

All birders come across large flocks of ducks, migrants, hawks, or shorebirds that need to be quickly counted. These numbers need to be accurate if our statistics are to be accurate, but this number can be grossly inaccurate depending upon the skill and experience of the counter. So how does one learn the “art of estimation?”

One way that might be helpful to readers and that improved my acuity can be found in an article that was in the *New Hampshire Audubon Quarterly* and is reprinted below. You begin by substituting such common household items as sunflower seeds, beans, or rice for the birds of a flock and using a plain background, such as a tabletop, as the sky or shoreline. The only other things you will need are pencil and paper. Scatter the seeds onto the tabletop. Now take a quick glance—just a few seconds—and write down the first number that seems correct to you. Don't count, just look. Then actually count and record the correct number next to your estimate. Repeat with another handful — visualize, write, then count. Keep repeating till your estimates come closer to the actual numbers. It's as easy as that!

Kathie Palfy lives in Pembroke and is a volunteer for New Hampshire Bird Records and a banding assistant at the Isles of Shoals.

On the Art of Estimating Numbers

by Robert Arbib

Reprinted from New Hampshire Audubon Quarterly, Vol.25, No.4 Fall 1972 and American Birds, September 1972, Vol. 26 No. 4. Credit for photographs; Nos. 1–2. R. Arbib, Nos. 3–6, Allan D. Cruikshank, all from National Audubon Society.

Most of us can visualize, without too much difficulty, numbers in objects in groups up to ten, without actually counting — because we learn with our fingers? But beyond that we are lost. Some of us can actually see no more than four or five units as an entity, beyond that we must laboriously count, one by one, two by two, or three by three. But it is quite possible to train ourselves, purely through repetitive experience, to memorize the images of numbers much higher than ten — so that we instantly recognize the “look” of 23, 41 or even 65.

The relevance of self-training in the art of estimating numbers is important to bird-watchers and to all those interested in recording the population dynamics of our bird

life. In the pages of almost every issue of this journal are figures on flocks of waterfowl, shorebirds, blackbirds, migrating pelagics — and even of birds in modest flocks observed briefly overhead before they disappear. Every birdwatcher has experienced, on almost every field trip, some instances in which a flock of birds was momentarily sighted, but could not be counted one by one.

Studies of species' abundance are dependent on accurate samplings or counts, and yet most numbers published are merely approximations — at best educated estimates, at worst wildly incompetent guesses. Christmas Bird Counters especially, whose statistics are increasingly being used for all kinds of population analysis are (in the experience of this veteran participant) often grossly inaccurate, sometimes by factors of 2 to 10 on the high side, to one-fourth on the low side.

All estimates of large flocks are inaccurate to some degree, of course, unless the birds are actually counted one by one, or checked by examining aerial photographs. There has been some rationalization of the general lack of estimating skills with the theory that the errors on both sides will be self canceling, and that on the average, group estimates will be closer to the truth than anyone suspects. But no one has proved that among ten or a hundred observers the mean of all estimates will approximate the actual count. In Christmas Bird Counts, with small parties or single individuals in the field, numbers can be badly distorted.

It is possible, however, for birdwatchers to improve dramatically their estimating skills, to the extent that they will be able to “count” flying and quickly-glimpsed flocks up to 50 individuals with no more than two per cent error, up to 100 by no more than three per cent error, and a flock of 1000 or more with less than five per cent error.

How does one train one's self? By practicing estimating numbers of individuals in situations where one's estimates can be promptly checked and recorded. Because geese at a distance or siskins overhead are merely units against a background, any objects that are uniform, on a plain background, can be used for training. I have in the past recommended rice grains as counters. Such easily available household items as beans, puffed cereals, sunflower seeds, etc., will serve just as well. The counters should be uniform at first, since most flocks that you will be estimating will be of a single species. Estimating mixed flocks is a more sophisticated art, and should be reserved for later.

All you need for your practice sessions are your counters and a tabletop, a pad and a pencil. Start by taking a small handful of counters and strewing them at random across the table. Take a quick — three second — look, and say the first number that seems correct to you. Don't count — see! Now count. Keep two columns: your estimate, and the correct count. Repeat, with a different handful. Repeat over and over with handfuls of varying sizes — all under fifty units. Note that eventually your quick “guesses” will come closer and closer to actuality. Not until you have brought your average error down to five per cent or less, should you graduate to 100 units. But the 100 unit quantity is most important to memorize, as is 1000, because you will be using them as your basic visualized components in estimating really sizable flocks. Some of your efforts should be from almost eye level to the tabletop, the angle at which you often see sitting waterfowl.

That's all there is to the training. Start small, and work your way upward, until you can scatter about 350 counters on the table and in three seconds or less, estimate their

Estimating — continued on page 42

number within fifteen. When you can, that flock of 350 swallows in the air over you will be recorded as 350, and not as 700, 175, or even 400. Try variations in the placement of your counters; scattered wide at random, more densely gathered, long irregular files. Practice can be played as a competitive game for two persons, with one scattering the counters and the other estimating, alternately; this way opponents can even prepare “V” formations of various numbers for each other. You should, of course, continue to practice your skill in the field, whenever the opportunity presents itself to first quickly estimate and later carefully count flocks.

Does it work? During one of the first aerial waterfowl counts ever taken (1938), I flew over a pond on Long Island one morning at about 600 feet, looked down, and jotted on the pad on my lap “Hecksher Pond, Blacks—700+.” That afternoon, observing the same pond from the ground, I was able to count carefully every Black Duck, two by two. The total was 711.

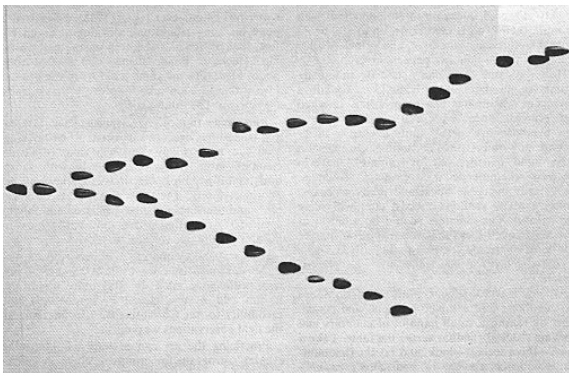
Remember that different species have different and sometimes deceptive densities when flocking. You are more likely, you will find, to under-estimate large flocks, particularly with shore-birds and other birds that mass together on sand or water closely. The truly giant roosts of blackbirds and Starlings must be estimated not only by accurately estimating a basic unit, but by measuring and multiplying time factors.

Accuracy at estimating numbers adds a new dimension of satisfaction to bird-watching, as any new proficiency must do. But more important, it can add a measure of reliability and credibility to our Christmas Bird Counts and all the field observations we publish.

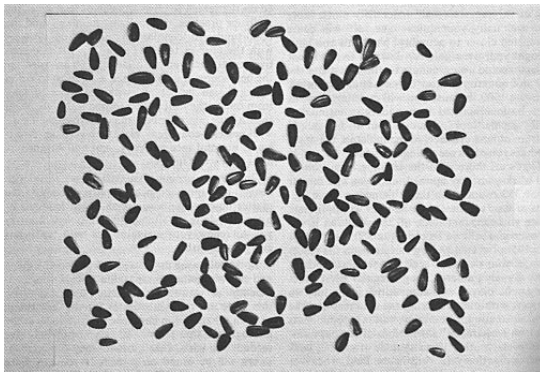
Practicing the art can provide an interesting evening’s program for groups or clubs. A collection of slides showing bird flocks in varying numbers from five upward can be shown; the audience equipped with pencil and paper. Each slide, flashed on the screen for five seconds or less, gives the audience practice in visualizing numbers, and the opportunity to compare its individual answers with the correct totals. To add a little competitive zest to the evening, prizes can be awarded for the best scores. Lacking slides, a series of table top “flocks” can be set up, with members moving from one to the next at five second intervals. With such a program members may discover their own weaknesses — consistent biases upward or downward, or total inconsistency, and will be encouraged to practice further.

One final warning: this skill grows rusty with disuse, and must be occasionally refreshed. No matter how certain you are that you have memorized the look of 50 and 100 units it will repay you to renew your acquaintance with beans every few months.

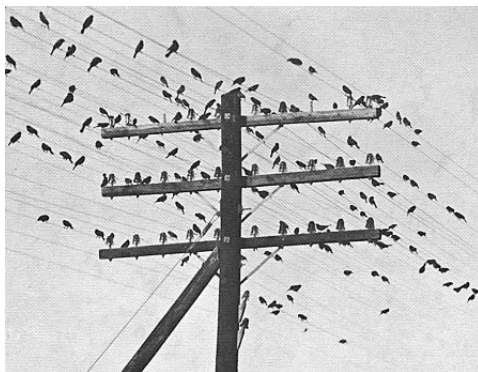
In the following pages we have provided a quick and not altogether comparable test of your proficiency at estimating flocks. (Note: only a subset of these photos is included with this reprint — ed.) Photographs on this scale are poor substitutes for the real thing, or even tabletop counters. As you look at the photographs that follow, allow yourself only five seconds for each. Don’t count — see! Correct answers will be found on page 44. If you are more than 10 per cent off average, get out those beans and practice!



No. 1 How many seeds?



No. 2 How many seeds?



No. 3 How many Red-winged Blackbirds?

Estimating — continued on page 44



No. 4 How many Tree Swallows?



No. 5 How many ducks?



No. 6 How many Red Knot?

ANSWERS TO ESTIMATING FLOCK SIZE.
Photo #1. 31 seeds; #2. 210 seeds; #3. 150 Red-winged Blackbirds; #4. about 335 Tree Swallows; #5. about 925 ducks; #6. about 2500 Red Knot.

Project Hawktrack New Hampshire 2000

by Susan Fogleman

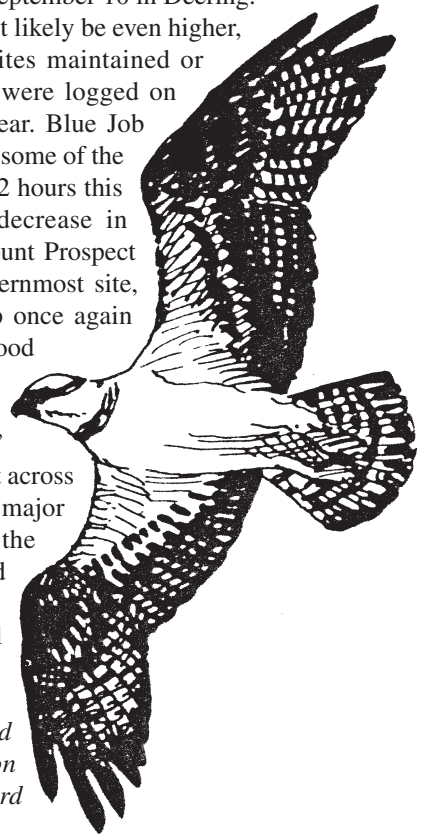
The fall 2000 hawk migration in New Hampshire was interesting to ponder, but not because of any outstanding numbers. The Broad-winged Hawk migration, always the crowd-pleaser, did not produce any of the spectacular flights for which this species is well-known, but instead was spread out over much of the month of September across most of the state. The locations and intensities of weather systems are largely what “steer” the Broad-winged flights. Autumn 2000 was perhaps most notable for its lack of strongly defined systems, and this is reflected in the lower than usual Broad-winged Hawk numbers. Broad-winged Hawks are dependent upon rising air currents in order to efficiently cover the distance between breeding and wintering areas. The migration dynamics of other raptors are strongly influenced by weather systems as well, but probably not to as great an extent as it is to these buteos.

The numbers of Bald Eagles recorded show the continued rebounding of this species. Forty-nine were reported from the various watch sites, with a site record of 30 seen at Little Round Top. Ospreys, too, continue on the upswing, with 251 tallied. The season’s only Golden Eagle was spotted on September 10 in Deering.

The above-mentioned numbers would most likely be even higher, despite the weather situation, had watch sites maintained or improved coverage. However, fewer hours were logged on hills that had had excellent coverage last year. Blue Job folks made a real effort, but time conflicts for some of the observers cut into hill time, which totaled 102 hours this fall. Pack Monadnock saw a significant decrease in reported coverage at only 35 hours. The Mount Prospect team put in an excellent effort at that northernmost site, with nearly 86 hours, and Little Round Top once again logged over 156. A warm afternoon with a good Sharp-shinned Hawk flight greeted the state’s watchers there on October 14 when they gathered for the third annual hawkwatchers’ potluck. It is hoped that a strengthening effort across the state in 2001 will not only “catch” the major Broad-winged push, but will also record the October flights of accipiters, falcons, and large buteos.

The complete table of hawk totals from all sites is presented on pages 46 and 47.

Susan Fogleman is the New Hampshire and Maine Coordinator for the Hawk Migration Association of North America and a board member of NorthEast Hawk Watch (NEHW).



New Hampshire Fall 2000 Hawk Totals (all sites)

DATE	Location	Hours	TV	OS	BE	NH	SS	CH	NG	RS	BW	RT	GE	AK	ML	PG	UR	TOTAL
8/20	Odiorne	1.5									10							10
9/1	Little Round Top	2	2		1		1				4	1		1			1	11
9/2	Prospect Mountain	4.75				1												1
9/2	Little Round Top	7		3	1	2	2								1	1	2	12
9/2	Blue Job Mountain	4	1		1		5					2		2				11
9/3	Prospect Mountain	4.5				1	1				4						1	7
9/3	Little Round Top	7.5	4	8		2	1				2				1		4	22
9/3	Blue Job Mountain	4	5		1						8						1	15
9/4	Prospect Mountain	1.25		1		1						1						3
9/4	Little Round Top	5		1			5				1						6	13
9/5	Prospect Mountain	4				1	1				1						1	4
9/5	Little Round Top	6.25			1		1		1		6	1		1			5	16
9/6	Prospect Mountain	5							1		1							2
9/6	Little Round Top	8	11	3	6	1					8	3					3	35
9/7	Prospect Mountain	4.5					2				13			1			4	20
9/7	Little Round Top	6		1	2	1	10				16	2					11	43
9/8	Prospect Mountain	3.5	1														1	2
9/8	Little Round Top	8	2	7	2		7				24	3					8	53
9/9	Prospect Mountain	4.75					5				37	1		4			1	48
9/9	Little Round Top	9		10	1	1	6	4	2		36			8			9	77
9/9	Blue Job Mountain	7	2		1		6			1	27						3	40
9/9	Pack Monadnock	6		2			22				47	1		1				73
9/10	Prospect Mountain	4.75	1		1		5				96	1		1			1	106
9/10	Little Round Top	9.25	2	2	6		8	4			790	5		3			17	837
9/10	Blue Job Mountain	6	6	2			14	3			25	1		2	4		5	62
9/10	Pack Monadnock	4.75	10	4	4	4	2		1	75				7	1	1	9	118
9/10	Deering	4		3			7				5		1	4				20
9/11	Prospect Mountain	3.5	1			1					6							8
9/11	Little Round Top	8		5	1	1			1	299	3		2			1	18	331
9/11	Blue Job Mountain	3	6				5				4			7	1			23
9/11	Pack Monadnock	6		7			5				6						10	28
9/11	Interlakes School	5	1	4			4				9			1	1		2	22
9/12	Little Round Top	5.5															2	2
9/13	Prospect Mountain	6.5	1	1	1		17	3	1		78	5		4	1		12	124
9/13	Little Round Top	9	8	2	1		3	4	1		23	6					63	111
9/13	Blue Job Mountain	5.5	8	5			9	2			186			9	1		3	223
9/13	Interlakes School	5.25	4				27				539			1			1	572
9/14	Prospect Mountain	4.5					5	1			10							16
9/14	Little Round Top	8.5	2	10	1		13				255			2			28	311
9/14	Blue Job Mountain	3	4	5	1	1	5				58			12	2			88
9/14	Interlakes School	2.25	2	2	1		3				55						1	64
9/15	Uncanoonuc	4	1				1				12			1				15
9/16	Prospect Mountain	3					1				3	1						5
9/16	Little Round Top	8.5		4	2		4				159	1					8	178
9/16	Blue Job Mountain	7	2	13			12				103			6	1		1	138
9/16	Crotched Mountain	6	7	2	1		10				72	5		2			3	102
9/16	Uncanoonuc	5.5	14	2			1				1							18
9/16	Odiorne	4		2		1	2	1			4				4			14
9/17	Prospect Mountain	2.5					1											1
9/17	Little Round Top	8.75		6	2		3				1			3			2	17

DATE	Location	Hours	TV	OS	BE	NH	SS	CH	NG	RS	BW	RT	GE	AK	ML	PG	UR	TOTAL
9/17	Blue Job Mountain	4	3	4			3							5	1		2	18
9/17	Crotched Mountain	6	3	10		1	4				8	2		2			1	31
9/17	Deering	2.5									3							3
9/17	Uncanoonuc	4									35							35
9/17	Odiorne	4		2				1										3
9/18	Prospect Mountain	5	4	2		1					35						2	44
9/18	Little Round Top	6.75		2	1		4	1			2	8					5	23
9/18	Blue Job Mountain	7	6	3			6		1		106	2		3	1		1	129
9/18	Deering	7.5	1	14	2		15	2			45			2	1		1	83
9/18	Garrison Hill	5	1	12	1	1	7	1			1158	1		2	1			1185
9/19	Little Round Top	8		6			1		1		15	2					1	26
9/19	Blue Job Mountain	7		6	2	1	14				684			9			2	718
9/19	Pack Monadnock	8.5		14	1		3	1			182	2		1		1	7	212
9/20	Prospect Mountain	3.25	11			1	2				11							25
9/20	Little Round Top	9.25		8	1		5				782	1		1			20	818
9/20	Blue Job Mountain	8	11	7	1		18			1	565			5	1		3	612
9/20	Pack Monadnock	3.75		2	1		9	1			63						4	80
9/20	Deering	5.5		1	1	2	12				131			3				150
9/21	Little Round Top	7		5			9	1			56	1		4			19	95
9/21	Blue Job Mountain	4	2	1			3				23			4			1	34
9/21	Pack Monadnock	6				1	9				69	1		2	2			84
9/22	Prospect Mountain	5.5		3			6	1		1	45			4			4	64
9/22	Little Round Top	6.75	1	2	1						5	1		1		1	9	21
9/22	Blue Job Mountain	4	2				3				31							36
9/23	Blue Job Mountain	7.5	2	13	1		19				337	4			3	1	4	384
9/23	Massabesic	1		2	2	1					700			1				706
9/25	Prospect Mountain	2					2							1			1	4
9/25	Blue Job Mountain	5	4	9			7				631					1		652
9/26	Blue Job Mountain	3	1	6			10				34	1						52
9/27	Prospect Mountain	2				1	1						1	1			2	6
9/27	Blue Job Mountain	5	3	4			5				81							93
9/30	Prospect Mountain	1		1														1
9/30	Blue Job Mountain	4	14	8			8				16							46
10/1	Prospect Mountain	2				1								1			2	4
10/1	Blue Job Mountain	4	2				8				9			1				20
10/5	Prospect Mountain	1		1														1
10/8	Odiorne	3	1	5	1	1	6				10	3		1	2	7		37
10/11	Prospect Mountain	3					3					2					2	7
10/12	Prospect Mountain	4																0
10/14	Little Round Top	2.5	3	2			20					7				1		33
10/19	Odiorne	5	1	7	3	8	190	6	2		1	7		5		1		231
TOTALS:		460.25	184	279	54	39	656	40	10	4	8992	89	1	144	30	16	342	10878

TV — Turkey Vulture

OS — Osprey

BE — Bald Eagle

NH — Northern Harrier

SS — Sharp-shinned Hawk

CH — Cooper's Hawk

NG — Northern Goshawk

RS — Red-shouldered Hawk

BW — Broad-winged Hawk

RT — Red-tailed Hawk

RL — Rough-legged Hawk (none seen)

GE — Golden Eagle

AK — American Kestrel

ML — Merlin

PG — Peregrine Falcon

UR — Unidentified raptor

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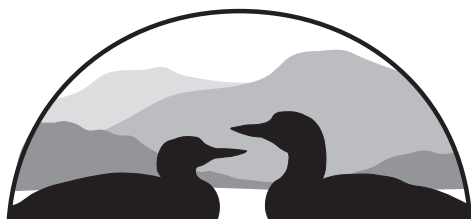
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New Hampshire Bird Records

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Abbreviations Used

ASNH	Audubon Society of NH	Rd.	Road
BBC	Brookline Bird Club	Rt.	Route
BBS	Breeding Bird Survey	SF	State Forest
CA	Conservation Area	St. Pk.	State Park
CC	Country Club	SPNHF	Society for the Protection of NH Forests, Concord
FT	Field Trip	T&M	Thompson & Meserves (Purchase)
L.	Lake	WMA	Wildlife Management Area
LPC	Loon Preservation Committee	WMNF	White Mountain National Forest
NA	Natural Area	WS	ASNH Wildlife Sanctuary
NHBR	New Hampshire Bird Records	~	approximately
NHRBC	NH Rare Birds Committee		
NWR	National Wildlife Refuge		
R.	River		

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