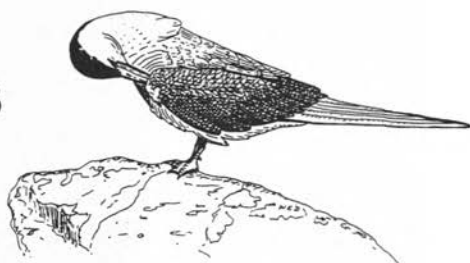


Field Records

July 1986



by George W. Gove, Robert H. Stymeist, Lee E. Taylor

July 1986 was cool, wet, and unusually cloudy. The temperature averaged 71.0°, 2.5° below normal, making this the coolest July since 1969. The high was 95° on the eighth, and the low was 54° on the Fourth of July. Rain totaled 3.96 inches, 1.28 inches more than normal. Sunshine was just fifty percent of that possible, and this year tied with 1969, both having the fourth least amount of sunshine in July in ninety-four years of record. Heavy fog was recorded on four days, double the average number. R.H.S.

LOONS THROUGH HERONS

At Wachusett Reservoir in Sterling a pair of Common Loons successfully nested this year and raised two young, a second breeding record. Loons first nested here in 1984. There has been a small loon population breeding in the state since 1975, mostly in the Quabbin Reservoir. (This year at Quabbin there were five or six pairs of territorial loons, and three pair successfully hatched one young each. Unfortunately, two of the Quabbin chicks died.)

Pelagic birding was poor; only four Greater and one Manx shearwaters were noted, and Wilson's Storm-Petrels were reported in far fewer numbers on Stellwagen Bank.

Least Bitterns were reported from Plum Island and from Whitman, though the birds at Plum were harder to find than in previous years. A total of thirty-nine Great Egrets were tallied at Allens Pond in South Dartmouth, where two Little Blue Herons were also found. Other Little Blues were located in Duxbury, Plum Island, Scituate, Rowley, East Boston and on Monomoy. Other interesting reports included three Tricolored Herons and as many as four Yellow-crowned Night-Herons, three of them on Plum Island. R.H.S.

<u>SPECIES/DATE</u>	<u>LOCATION</u>	<u>NUMBER</u>	<u>OBSERVERS</u>	<u>JULY 1986</u>
Common Loon:				
26	Sterling (Wachusett Res.)	2 ad. + 2 yg.	M.Lynch + S.Carroll	
Greater Shearwater:				
27	Stellwagen	4	BBC (H.D'Entremont)	
Manx Shearwater:				
27	Stellwagen	1	BBC (H.D'Entremont)	
Wilson's Storm-Petrel:				
3,21	Duxbury Beach, S.Monomoy	50+, 500+	W.Petersen#, R.Humphrey#	
22,27	Scituate, Stellwagen	15, 100+	W.Petersen, BBC(H.D'Entremont)	
31	S.Wellfleet (Atlantic)	700+	P.Trimble	
Northern Gannet:				
11,14	Wellfleet, Stellwagen	1 ad., 1	R.Humphrey#, P.Trimble	
Double-crested Cormorant:				
thr.	Saugus-Boston (train)	max.150+(7/30)	J.Berry	
3,13	Duxbury Bay, Newbypt	250+, 200	W.Petersen#, BBC(I.Giriunas)	
Least Bittern:				
4,26	Plum Island	1, 1	BBC(G.d'Entremont), D.Chickering	
4,27	Whitman	3, 1	W.Petersen	
Great Blue Heron:				
thr.	S.Dartmouth (Allens Pond)	max.4	LCES(R.Marshall)	
4,12,19	P.I.	2, 2, 1	D.Chickering	
11;12,19	Eastham; GMNWR	5; 6, 6	R.Humphrey#; M.Lynch#	
Great Egret:				
thr.	S.Dartmouth (Allens Pond)	max.39(7/30)	LCES(R.Marshall)	
3,6	Duxbury, Lakeville	2, 1	W.Petersen#, K.Holmes	
19;22,26	Rowley; Scituate	2; 1, 3	R.Stymeist#; W.Petersen	
23;26	Nantucket; P.I., Ipswich	2; 2, 6	N.Jenks-Jay; BBC, M.Lynch#	
30	Wayland	2	R.Walton	

SPECIES/DATE	LOCATION	NUMBER	OBSERVERS	JULY 1986
Snowy Egret:				
thr.	Saugus-Boston (train)	max.30+	J.Berry	
thr.	S.Dartmouth (Allens Pond)	max.17(7/30)	LCES(R.Maker)	
7,28	P.I.	45, 65	BBC(M.Barnett, D.+D.Oliver)	
20,27	E.Boston (Belle Isle)	10, 20	J.Cumming, S.Zendeh	
Little Blue Heron:				
3,5	Duxbury, P.I.	2 ad., 2 ad.	W.Petersen#, BBC(D.Deifik)	
15,22,30	S.Dartmouth (Allens Pond)	2, 2, 2	LCES(R.Marshall)	
15,19	Scituate, P.I.	1 imm., 1 imm.	B.Sorrie, T.Martin#	
19,19-20	Rowley, E.Boston	5 ad., 1 ad.	R.Stymeist#, J.Cumming+v.o.	
31	N.Monomoy	2	B.Nikula	
Tricolored Heron:				
4	Monomoy	1	R.Stymeist#	
21,27	P.I., Duxbury	1, 1	BBC(S.Thomas), R.Walton	
Cattle Egret:				
12,25,29	Ipswich	6, 8-9, 15+	J.Berry	
26,30	Essex	12, 15	J.Berry, T.Martin	
Green-backed Heron:				
26	P.I.	12	M.Lynch#	
Black-crowned Night-Heron:				
4,26	P.I.	4, 8	M.Lynch, S.Carroll	
12,19	GMNWR	9, 14	S.Carroll, M.Lynch	
Yellow-crowned Night-Heron:				
8	Annisquam	1	H.Wiggin	
12,14,19	P.I.	1, 2, 3	D.Chickering, N.King, D.Chickering	
Glossy Ibis:				
4,7,26	P.I.	1, 25, 1	M.Lynch#, M.Barnett#, S.Carroll#	
5-31	N.Monomoy	max.15	R.Humphrey#	
15	S.Monomoy, S.Dartmouth	14, 9	R.Humphrey#, LCES(R.Marshall)	
19,30	Rowley, Revere	7, 3	R.Stymeist#, J.Berry	

WATERFOWL THROUGH RAILS

Four Brant, all apparently sick, spent the month on North Monomoy, and two Brant were found early in the month at Scituate. Wood Ducks were much in evidence at Great Meadows with counts of over a hundred individuals on two occasions. A female Common Eider with six chicks was found in South Dartmouth, and a flock of sixty was noted off Duxbury. An immature male King Eider was found at Monomoy, and presumably the same bird was found later on Nantucket.

A Black Vulture was reported about midmonth in Rockport near Halibut Point. Ospreys successfully raised young at Lakeville and Nantucket. A nest of Cooper's Hawks was noted at Broadmoor Sanctuary in South Natick. R.H.S.

Canada Goose:				
19,26	GMNWR, P.I.	94, 86	M.Lynch#, S.Carroll#	
Brant:				
thr.,3	N.Monomoy, Scituate	max.4, 2	v.o., W.Petersen	
Wood Duck:				
12,19	GMNWR	100+, 100+	S.Carroll#, BBC(M.Lynch)	
26	P.I., Scituate	2, 3	M.Lynch#, W.Petersen	
Blue-winged Teal:				
4,26	P.I.	10, 7	M.Lynch, S.Carroll	
Gadwall:				
4,12,19	P.I.	7, 6, 6	D.Chickering	
Common Eider:				
3,6	Duxbury, S.Dartmouth	60, f.w/6 yg.	W.Petersen#, T.Raymond	
12,28	E.Orleans, Elizabeth I.	14, 11	A.Williams, P.Trimble	
<u>King Eider:</u>				
16,20;26	N.Monomoy; Nantucket	1 imm.m.; 1 imm.m.	B.Nikula; S.Perkins	
Black Scoter:				
3,21	Duxbury Bay, P.I.	2 f., 1 f.	W.Petersen#, BBC(S.Thomas)	
Surf Scoter:				
3,14-31	Duxbury Bay, Chatham	1, 1	W.Petersen#, B.Nikula#	
27	Westport (Gooseberry Neck)	1	K.Hansen	
White-winged Scoter:				
3,14-31	Duxbury Bay, Chatham	1, 2	W.Petersen#, B.Nikula#	
Red-breasted Merganser:				
3	Duxbury Bay	2	W.Petersen#	
<u>Black Vulture:</u>				
about 7/15	Rockport (Halibut Pt.)	1	R.Hooper	

SPECIES/DATE	LOCATION	NUMBER	OBSERVERS	JULY 1986
Turkey Vulture: 4,28	Dover, S.Easton	4, 1	E.Taylor, K.Holmes	
Osprey: thr. 6 23	S.Dartmouth (Allens Pond) Lakeville Nant. (Great Pt.)	max.4(7/30) 2 ad. + 3 yg. 2 ad. + 3 yg.	LCES(R.Marshall) K.Holmes N.Jenks-Jay	
Bald Eagle: thr.	outer Cape Cod	3+	v.o.	
Northern Harrier: 20,30	P.I., S.Dartmouth	2, 2	K.Griffis#, LCES(R.Marshall)	
Sharp-shinned Hawk: 12	Plymouth	1	SSBC(A.Leggett)	
Cooper's Hawk: 4	S.Natick (Broadmoor)	2 at nest	BBC(E.Taylor)	
Northern Goshawk: 3	Halifax	1 ad.	W.Petersen	
Red-tailed Hawk: 4 20,27	Milford (3 sites) Annisquam	6 1 ad.	R.Hildreth H.Wiggin	
American Kestrel: thr. 13	Beverly-Boston (train) Newburyport	4-5 6	J.Berry BBC(I.Giriunas)	
Northern Bobwhite: 6,12 22,26	Wayland, Plymouth Sherborn	1, 13 1	R.Forster, SSBC(A.Leggett) R.Forster	
Virginia Rail: 4 12,19	Whitman, P.I. GMNWR	3, 1 8, 11	W.Petersen, D.Chickering S.Carroll#, BBC(M.Lynch)	
Sora: 6 12,19	Wayland GMNWR	1 4, 4	R.Forster S.Carroll#, BBC(M.Lynch)	
Common Moorhen: 19,26	GMNWR, P.I.	1, 2 ad.+8 yg.	M.Lynch#, D.Chickering	

SHOREBIRDS THROUGH SKIMMERS

A total of 55 Piping Plovers, including at least three young, were reported this month. More than 50 Killdeer and up to 16 Solitary Sandpipers were seen in a field in Halifax where 25 Solitary Sandpipers were noted last July. Twenty American Oystercatchers were counted at North Monomoy; this is less than the numbers reported in the last few July and less than the 20 pairs reported from there last month. A maximum of 120 Willets was also noted. Forty-one Willets were seen feeding behind the church at Plum Island on July 13. A maximum of 290 Whimbrel was seen going to roost at North Monomoy; the maximum number noted in the past few years there was 352 last year. The Hudsonian Godwit flock at North Monomoy built to 100 birds, and a Marbled Godwit was present there from July 10 through July 27. This is the first July record of Marbled Godwit since 1980.

An adult Gull-billed Tern was seen at North Monomoy on July 10 and 12, and a Sandwich Tern was seen there on July 1 and 23. Royal Terns were noted, one each at five locations. Up to 150 Arctic Terns, mostly immature, were present at North Monomoy throughout the month. A total of four nesting pairs of Black Skimmers were present at North Monomoy and Orleans, but none successfully nested. G.W.G.

Black-bellied Plover: thr.,3	N.Monomoy, Duxbury	max.225(7/1), 28	B.Nikula, W.Petersen
Semipalmated Plover: thr.,22 15-30	N.Monomoy, Scituate S.Dartmouth	max.150(7/31), 70 max.24(7/30)	B.Nikula, W.Petersen LCES(R.Marshall)
Piping Plover: thr. thr. 3,24 23	N.Monomoy S.Dartmouth Duxbury, Scituate Nantucket	max.19(7/16) max.12(7/15) 10 ad.+2 yg., 5+1 yg. 6	R.Humphrey+v.o. LCES(R.Marshall) W.Petersen# Nan Jenks-Jay
Killdeer: 6,21 19	Halifax Newburyport	30, 50+ 16	W.Petersen R.Stymeist
American Oystercatcher: thr. 23	N.Monomoy Nantucket	max.20 6 ad.+6 yg.	B.Nikula+v.o. N.Jenks-Jay

SPECIES/DATE	LOCATION	NUMBER	OBSERVERS	JULY 1986
Greater Yellowlegs:				
thr.	N.Monomoy	max.100(7/20)	B.Nikula+v.o.	
13,26	P.I.	100+, 200	BBC(I.Giriunas, G.d'Entremont)	
Lesser Yellowlegs:				
thr.;20,27	N.Monomoy; E.Boston	max.150(7/31); 33, 40	B.Nikula+v.o.; S.Zendeh	
13,26	Plum Island	50, 100	BBC(I.Giriunas, G.d'Entremont)	
Solitary Sandpiper:				
3-27,20	Halifax, E.Boston	max.16(7/27), 1	W.Petersen, J.Cumming	
Willet:				
thr.	N.Monomoy	max.120(7/10)	J.Barton+v.o.	
thr.	S.Dartmouth	max.9(7/15)	LCES(R.Marshall)	
13	P.I.	41	BBC(I.Giriunas)	
"Western" Willet:				
thr.	N.Monomoy	max.15	B.Nikula+v.o.	
Spotted Sandpiper:				
thr.	S.Dartmouth	max.9(7/8)	LCES(R.Marshall)	
20,27	Winthrop, E.Boston	3, 3	J.Cumming, S.Zendeh	
Upland Sandpiper:				
6	Halifax	1 m.(displaying)	W.Petersen	
Whimbrel:				
8-30	S.Dartmouth	max.9(7/30)	LCES(R.Marshall)	
20	Winthrop(Snake I.)	1	J.Cumming	
23,31	Nant., N.Monomoy	30, 290+	N.Jenks-Jay, B.Nikula	
Hudsonian Godwit:				
thr.	N.Monomoy	max.100(7/31)	B.Nikula+v.o.	
26,27	P.I., E.Boston	30,13	BBC(G.d'Entremont), J.Cumming	
Marbled Godwit:				
10-27	N.Monomoy	1	J.Barton+v.o.	
Ruddy Turnstone:				
thr.	N.Monomoy	max.50(7/31)	B.Nikula+v.o.	
3,30	Duxbury, S.Dartmouth	3,5	W.Petersen#, LCES(R.Marshall)	
Red Knot:				
thr.	N.Monomoy	max.400(7/31)	B.Nikula+v.o.	
22	Scituate	50	W.Petersen	
Sanderling:				
thr.	N.Monomoy	max.1200(7/31)	B.Nikula+v.o.	
21	Ipswich	110	J.Berry	
Semipalmated Sandpiper:				
thr.	N.Monomoy	max.2000(7/31)	B.Nikula+v.o.	
26,27	P.I., Orleans	500, 500	BBC(G.d'Entremont), L.MacIvor	
Western Sandpiper:				
28	N.Monomoy	1 ad.	B.Nikula	
Least Sandpiper:				
thr.	N.Monomoy	max.1500	B.Nikula+v.o.	
thr.	Scituate	max.200+(7/24)	W.Petersen	
White-rumped Sandpiper:				
1,6,20	N.Monomoy	1, 2, 1	B.Nikula	
19,27	P.I., E.Boston	3, 1	R.Stymeist#, S.Zendeh	
Pectoral Sandpiper:				
4,21	P.I.	1, 2	R.Forster, BBC(S.Thomas)	
16-31	N.Monomoy	max.3(7/31)	B.Nikula+v.o.	
21	Halifax	6	W.Petersen	
Dunlin:				
thr;1,6	Scituate; N.Monomoy	1; 2, 3	W.Petersen; B.Nikula	
Stilt Sandpiper:				
12,19-26	N.Monomoy, P.I.	6, max.22(7/19)	B.Nikula, R.Stymeist+v.o.	
Ruff (details):				
20	E.Boston	1 f.	S.Zendeh	
Short-billed Dowitcher:				
thr.	N.Monomoy	max.2000(7/20)	B.Nikula+v.o.	
13-26	P.I.	max.400(7/26)	v.o.	
8-30	S.Dartmouth	max.20(7/15)	LCES(R.Marshall)	
Long-billed Dowitcher:				
19	P.I.	3	C.Floyd#	
Common Snipe:				
21	Halifax	5	W.Petersen	
Wilson's Phalarope:				
4,21	P.I.	1, 2	M.Lynch#, BBC(S.Thomas)	
12,20	N.Monomoy	1, 1	B.Nikula	
Red-necked Phalarope:				
27	Stellwagen	2	BBC(H.D'Entremont)	

SPECIES/DATE	LOCATION	NUMBER	OBSERVERS	JULY 1986
Parasitic Jaeger: 22,23	Marion	1, 2	P.Hallowell	
Laughing Gull: 27	Lynn	9	BBC(H.D'Entremont)	
Little Gull: 21	Ipswich, P.I.	1 imm.; 1 imm.	J.Berry, BBC(S.Thomas)	
Gull-billed Tern: 10,12	N.Monomoy	1 ad.	J.Barton, A.Bennett	
Royal Tern: 4-23,14	N.Monomoy, Chatham	1, 1	R.Humphrey#	
15,26	Nant., P.I	1, 1	N.Jenks-Jay, BBC(G.d'Entremont)	
27	Chatham	1	S.Kellogg	
Sandwich Tern: 1,23	N.Monomoy	1, 1 ad.	B.Nikula, J.Barton	
Common Tern: thr.	E.Boston	max.3(7/13)	J.Cumming+v.o.	
thr.	S.Dartmouth	max.8	LCES(R.Marshall)	
23	Nantucket	30	N.Jenks-Jay	
Arctic Tern: thr.	N.Monomoy	max.150 imm.	B.Nikula+v.o.	
16	Nantucket	1 ad.	N.Jenks-Jay	
Forster's Tern: 15,16	N.Monomoy	1, 1 br.pl.	B.Nikula	
Least Tern: thr.	S.Dartmouth	max.13(7/30)	LCES(R.Marshall)	
3,20	Scituate, P.I.	150, 62	W.Petersen, K.Griffis#	
20	Winthrop	7 ad.+3 yg.	J.Cumming	
Black Tern: thr.,15,21	N.Monomoy, Nant., S.Mon.	max.9(7/10), 1, 2	v.o., N.Jenks-Jay, R.Humphrey#	
Black Skimmer: thr.	N.Monomoy, Orleans	3 nesting pr., pr.nesting	v.o., P.Trull	
19,20	P.I.	1, 1	E.Nielsen#, K.Griffis#	

CUCKOOS THROUGH FINCHES

Cuckoo numbers continued low this summer. A Burrowing Owl was seen in Edgartown on the Vineyard on July 16 (see "To Speak of Many Things. . ." elsewhere in this issue for details), and a pair of Red-headed Woodpeckers nested in the SUASCO area of Westboro. The Fish Crows at both Wareham and Scituate were observed behaving in a manner suggesting possible breeding. Bluebirds continued at the Miles Standish State Forest and in Milford in numbers about the same as June. Sparrow reports of note included Vesper at Miles Standish State Forest, and Grasshopper and good numbers of both Sharp-tailed and Seaside at Allens Pond in South Dartmouth. A very few migrants were noted towards the end of the month and included pewee at Annisquam on July 25 and a Worm-eating Warbler seen briefly in Hopkinton on July 31.

L.E.T.

Yellow-billed Cuckoo: 5	Annisquam	1	H.Wiggin
Eastern Screech-Owl: 18,31	Holliston, Ipswich	1, 1	R.Hildreth, J.Berry
<u>Burrowing Owl</u> (Details elsewhere in this issue): 16-thr.	M.V.	1	P.Vickery
Whip-poor-will: 7	Newburyport vicinity	3	BBC(M.Barnett)
Red-headed Woodpecker: 21	Westboro(SUASCO)	pr. nesting	B.Blodget
Eastern Wood-Pewee: 12,25	Plymouth, Annisquam	4, 2	SSBC(A.Leggett), H.Wiggin
Willow Flycatcher: 4,6-19	Lancaster, GMNWR	2, max.5	S.Carroll#, v.o.
Eastern Kingbird: thr.,4	P.I., Milford	max.20(7/26), 9	v.o., R.Hildreth
Tree Swallow: 15-31	S.Dartmouth	max.101(7/15)	LCES(R.Marshall)
Bank Swallow: 4,12	Lancaster, GMNWR	8, 10	M.Lynch#
Cliff Swallow: 19	Newbury, Rowley	2,7	R.Stymeist#
Purple Martin: 7	P.I.	24	BBC(M.Barnett)
<u>Eurasian Jackdaw</u> : thr.	Nantucket	1	E.Andrews#

<u>SPECIES/DATE</u>	<u>LOCATION</u>	<u>NUMBER</u>	<u>OBSERVERS</u>	<u>JULY 1986</u>
Fish Crow:				
9,15	Wareham, Scituate	2, 2+	B.Sorrie	
21,26	Wilmington, S.Dartmouth	2, 1	B.Sorrie, LCES(R.Maker)	
Red-breasted Nuthatch:				
15	Millis	1	R.Forster	
Carolina Wren:				
thr., 10	Whitman, S.Dartmouth	1-2, 3	W.Petersen, LCES(R.Maker)	
21,26	Annisquam, Holliston	1, 1	H.Wiggin, R.Hildreth	
House Wren:				
thr.,12	Annisquam, Ipswich	3, 5	H.Wiggin, J.Berry	
Marsh Wren:				
4,19	P.I., GMNWR	10+, 20	M.Lynch#, BBC(M.Lynch)	
Eastern Bluebird:				
4,12	Milford, Plymouth	1 ad.+2 imm., 2	R.Hildreth, SSBC(A.Leggett)	
Veery:				
4	S.Natick	5	BBC(E.Taylor)	
Hermit Thrush:				
4,12	Dover, Plymouth	3, 10	E.Taylor, SSBC(A.Leggett)	
31	Rowley	1	J.Berry	
Gray Catbird:				
thr.,12	P.I., Plymouth	max.31, 22	v.o., SSBC(A.Leggett)	
Northern Mockingbird:				
12,13	Plymouth, S.Dartmouth	11, 14	SSBC(A.Leggett), LCES(R.Maker)	
Brown Thrasher:				
12,19	Plymouth, P.I.	8, 11	SSBC(A.Leggett), R.Stymeist#	
Yellow-throated Vireo:				
4	Lancaster	1	S.Carroll#	
Yellow-rumped Warbler:				
23	Wenham	1	W.Petersen	
Black-throated Green Warbler:				
12	Ipswich	3 m.	J.Berry	
Pine Warbler:				
12	GMNWR, Plymouth	3, 7	M.Lynch#, SSBC(A.Leggett)	
Prairie Warbler:				
4,12	Milford, Plymouth	3, 16	R.Hildreth, SSBC(A.Leggett)	
Black-and-white Warbler:				
12	Ipswich	2	J.Berry	
Worm-eating Warbler:				
31	Hopkinton	1	G.Gove	
Ovenbird:				
12	Ipswich	2	J.Berry	
Northern Waterthrush:				
4	Holliston	5	R.Hildreth	
Common Yellowthroat:				
12,19	Plymouth, P.I.	21, 12	SSBC(A.Leggett), R.Stymeist#	
Rufous-sided Towhee:				
12,19	Plymouth, P.I.	70, 24	SSBC(A.Leggett), R.Stymeist#	
Chipping Sparrow:				
12	Plymouth, Ipswich	26, 9	SSBC(A.Leggett), J.Berry	
Vesper Sparrow:				
12	Plymouth	7	SSBC(A.Leggett)	
Field Sparrow:				
4,12	Milford, Plymouth	6, 8	R.Hildreth,SSBC(A.Leggett)	
Grasshopper Sparrow:				
thr.	S.Dartmouth	max.4(7/30)	LCES(R.Marshall)	
Sharp-tailed Sparrow:				
thr.	S.Dartmouth, P.I.	max.27(7/8), max.14(7/26)	LCES(R.Marshall), v.o.	
3,20	Duxbury Beach, E.Boston	3, 1	W.Petersen#, S.Zendeh	
Seaside Sparrow:				
thr.,4	S.Dartmouth, P.I.	max.7(7/8), 1	LCES(R.Marshall), M.Lynch#	
Song Sparrow:				
12,19	Plymouth, P.I.	40, 38	SSBC(A.Leggett), J.Heywood#	
Eastern Meadowlark:				
4	Newbury	7	M.Lynch#	
Bobolink:				
19,26	Wayland, Newbypt	12, 5	R.Forster, S.Carroll#	
Orchard Oriole:				
1,6-21	Chatham, Woburn	1, pr.+yg.	B.Nikula, C.Floyd	
Purple Finch:				
5,26	Annisquam, P.I.	2, 6	H.Wiggin, M.Lynch#	
House Finch:				
19	Framingham	165	R.Forster	



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LIST OF ABBREVIATIONS

ad.	adult	F.M.	Fowl Meadow, Milton
b.	banded	H.P.	Halibut Point, Rockport
br.	breeding	I.	Island
dk.	dark (phase)	M.V.	Martha's Vineyard
f.	female	Mt.A.	Mt. Auburn Cemetery, Cambridge
imm.	immature	Nant.	Nantucket
ind.	individuals	Newbypt	Newburyport
loc.	location	P.I.	Plum Island
lt.	light (phase)	P'town	Provincetown
m.	male	R.P.	Race Point, Provincetown
max.	maximum	S.N.	Sandy Neck, Barnstable
migr.	migrating	Stellw.	Stellwagen (Bank)
ph.	photographed	BBC	Brookline Bird Club
pl.	plumage	BOEM	Bird Observer of Eastern Massachusetts
pr.	pair	CCBC	Cape Cod Bird Club
S	summer (1S = first summer)	DFWS	Drumlin Farm Wildlife Sanctuary
thr.	throughout	DWWS	Daniel Webster Wildlife Sanctuary
v.o.	various observers	FCBC	Felix Cutler Bird Club
W	winter (2W = second winter)	GMNWR	Great Meadows National Wildlife Refuge
w/	with	IRWS	Ipswich River Wildlife Sanctuary
yg.	young	LCES	Lloyd Center for Environmental Studies
#	additional observers	MAS	Massachusetts Audubon Society
A.A.	Arnold Arboretum	MBO	Manomet Bird Observatory
A.P.	Andrews Point, Rockport	MNWS	Marblehead Neck Wildlife Sanctuary
B.R.	Bass Rocks, Gloucester	NEHW	New England Hawk Watch
Buzz.	Buzzards (Bay)	ONWR	Oxbow National Wildlife Refuge
C.	Cape as in Cape Cod	PRNWR	Parker River National Wildlife Refuge
Cambr. Res.	Cambridge Reservoir	SRV	Sudbury River Valley
E.P.	Eastern Point, Gloucester	SSBC	South Shore Bird Club
F.E.	First Encounter Beach, Eastham	WBWS	Wellfleet Bay Wildlife Sanctuary
F.H.	Fort Hill, Eastham		