

FIELD RECORDS

DECEMBER 1986



by George W. Gove and Robert H. Stymeist

December was mild, wet, and cloudy. The temperature averaged 35.5 degrees, 1.8 degrees above normal. The high mark was 64 degrees on December 3, and the lowest temperature at Boston was 15 degrees on the fourteenth. Christmas Day was abnormally warm with a high of 58 degrees, about 18 degrees above the normal for that date. Precipitation totaled 6.38 inches, 1.90 inches more than normal with measurable amounts of rain on eleven days. Snow totaled 3.4 inches, 4.3 inches less than average. A thunderstorm struck some suburban areas on December 3 with a very heavy rain. A glaze storm on the ninth caused hazardous road conditions, and the ice broke several limbs.

The highlight of December is the annual Christmas Bird Count (CBC). This year marked the eighty-seventh anniversary of the original twenty-one counts taken on Christmas Day, 1900. In eastern Massachusetts there are twenty-one CBC count areas. Rather than include the results in the December field reports that follow, the complete results of all the eastern Massachusetts CBCs, except Plymouth, which had not been received at press time, are tabulated elsewhere in this issue. R.H.S.

LOONS THROUGH RAPTORS

At Low Beach, Nantucket, high counts of both Red-throated and Common loons were noted all month. At this same location 23 Red-necked Grebes were also tallied on December 28. Northern Gannets were present in high numbers, with a high count of about 2100 individuals on December 22.

The **Greater White-fronted Goose** continued to be found all month at the Wachusett Reservoir in Clinton, where it associated with a single Snow Goose and a large number of Canada Geese. An immature male Eurasian Wigeon continued in Plymouth, and at Winthrop a pair of Harlequin Ducks and a drake King Eider could be found all month. The Canvasback population at Fresh Pond dropped to a single bird on the last day of the year. Off South Monomoy, over 25,000 Common Eider were present on December 7. Oldsquaw numbers built up early in the month off Nantucket, and large numbers of all three scoters could be found in Nantucket Sound. Common Mergansers were noted from many locations with a maximum number of 400 counted at Lake Chauncy in Westboro.

At least 4 Bald Eagles were noted early in the month at Quabbin, and others were seen at Great Meadows in Concord. Another adult eagle was seen feeding on a deer carcass in a claypit in Bridgewater. Red-tailed Hawks were obvious along the highways, and there were many reports of Rough-legged Hawks, especially in the Plum Island-Salisbury area. Peregrine Falcons were found in three locations, and a gray Gyrfalcon first seen in November was again seen well both in flight and perched on South Monomoy on December 7. R.H.S.

DATE	LOCATION	NUMBER	OBSERVERS	DECEMBER 1986
Red-throated Loon				
28	Nant. (Low Beach)	85	M. Litchfield	
Common Loon				
28	Nant. (Low Beach)	165	M. Litchfield	
Pied-billed Grebe				
7	Lakeville, Plymouth	8, 6	G. Gove#, W. Petersen#	
Horned Grebe				
6, 7	Westport, Lakeville	15, 25	SSBC (W. Petersen), G. Gove#	
7	Revere-Winthrop	35	BBC (R. Stymeist)	
18, 27	Cambr. (F.P.), Wachusett Res.	1, 2	J. Barton, M. Lynch#	

DATE	LOCATION	NUMBER	OBSERVERS	DECEMBER 1986
Red-necked Grebe				
6, 7	Rockport, Revere	2, 2	R. Bucci#, BBC (R. Stymeist)	
28	Nant. (Low Beach)	23	M. Litchfield	
Northern Gannet				
8, 13, 22	Nant. (Low Beach)	1400, 1150, 2100	F. Bouchard + v.o.	
Great Cormorant				
7	Nahant-Winthrop	225	BBC (R. Stymeist)	
Double-crested Cormorant				
6, 11	Arlington (Spy Pd)	1 imm	L. Taylor	
11, 15, 22	Everett	2 imm, 1 imm, 1	imm J. Berry	
13, 24	Vineyard Haven, Revere	1, 1 imm	M. Lynch#, A. Williams	
American Bittern				
29	Salisbury	1	M. Murphy#	
Great Blue Heron				
6	Belmont, Westport	3, 7	L. Taylor, BBC (W. Petersen)	
7	E. Boston (B.I)	4	BBC (R. Stymeist)	
Greater White-fronted Goose				
thr	Clinton (Wachusett Res.)	1	v.o.	
Snow Goose				
14-27	Clinton (Wachusett Res)	1	M. Lynch + v.o.	
Canada Goose				
14, 27	Clinton (Wachusett Res)	619, 324	M. Lynch + v.o.	
Green-winged Teal				
7	S. Monomoy	15	B. Nikula	
American Black Duck				
6	Newburyport area	600	BBC (G. d'Entremont)	
14	Clinton (Wachusett Res.)	70+	M. Lynch#	
Northern Pintail				
6-13, 6	Arlington, P.I.	5, 23	L. Taylor, BBC (G. d'Entremont)	
7	S. Monomoy	15	B. Nikula	
Northern Shoveler				
7	S. Monomoy	6	B. Nikula	
Gadwall				
thr	Salem (from train)	15-18	J. Berry#	
7	Plymouth, S. Monomoy	33, 4	W. Petersen#, B. Nikula	
14, 21	Brockton, Nant.	2, 2	W. Petersen, M. Litchfield	
Eurasian Wigeon				
7	Plymouth	1 imm m	W. Petersen#	
American Wigeon				
7, 8	S. Monomoy, Cambridge	40, 11	B. Nikula, D. Flood	
14, 17	Brockton, Salem	4, 2	W. Petersen, J. Berry	
Canvasback				
thr, 7	Cambr. (F.P.), Lakeville	312 max 12/4, 45	J. Barton + v.o., L. Taylor#	
14, 21	Waltham (Cambr. Res.), Nant.	4, 12	R. Forster, M. Litchfield	
Redhead				
4-7	Lakeville (Little Quitticas)	1 m	D. Briggs + v.o.	
7, 21	Plymouth, Nantucket	5, 21	W. Petersen#, M. Litchfield	
Ring-necked Duck				
13, 14	M.V., Clinton (Wachusett Res.)		14, 3J. Cumming#, M. Lynch#	
28	Lakeville	3	G. d'Entremont	
Greater Scaup				
7, 21	Nantucket (2 loc.)	86, 65	M. Litchfield	
Lesser Scaup				
7	Lakeville	17	G. Gove#	
Common Eider				
7	S. Monomoy	25,000+	B. Nikula	
7	Revere-Winthrop	950	R. Stymeist#	
14, 28	Nant. (2 loc.)	400, 950	M. Litchfield	
King Eider				
thr; 14	Winthrop, Nahant	1 m, 1 m	J. Cumming + v.o., S. Perkins	

DATE	LOCATION	NUMBER	OBSERVERS	DECEMBER 1986
Harlequin Duck				
thr	Winthrop	pr	J. Cumming + v.o.	
7, 8	N. Scituate, Wellfleet	1, 1	J. Center + v.o., R. Everett	
14	Nahant	1 m.	S. Perkins	
Oldsquaw				
8	Nantucket	5000	D. Brown#	
Black Scoter				
18, 20	Lakeville, Rockport	2, 3	D. Briggs, J. Berry	
28	Nantucket Sound	450	M. Litchfield	
Surf Scoter				
28	Nantucket Sound	950	M. Litchfield	
White-winged Scoter				
28	Nantucket Sound	1100	M. Litchfield	
Common Goldeneye				
7, 13	Revere-Winthrop, M.V.	75, 60+	BBC(R. Stymeist), M. Lynch#	
14, 22	Wachusett Res., Nant. Harbor	15+, 125	M. Lynch#, M. Litchfield	
Barrow's Goldeneye				
7 on	Winthrop-E. Boston	1 m	J. Cumming + v.o.	
7, 14	Scituate, Nant. Harbor	1 m, 2 m	G. Gove#, M. Litchfield	
Bufflehead				
7	Revere-Winthrop area	145	BBC (R. Stymeist)	
22	Nantucket Harbor	120	M. Litchfield	
Hooded Merganser				
6, 7	Holliston, Lakeville	2, 35	R. Hildreth, L. Taylor#	
13, 15	Arlington, Watertown	36, 8	L. Taylor, J. Paputseanos	
31	Cambridge (F.P.)	5	D. Flood	
Common Merganser				
1, 8	Westboro (Lake Chauncy)	400, 125	C. Quinlan	
7, 20	Quabbin (G37)	63, 26	M. Lynch, S. Carroll	
7, 14	Lakeville	25, 125	L. Taylor#, W. Petersen#	
28	Lakeville	100	G. d'Entremont#	
7, 14	Plymouth, Waltham	100+, 15	W. Petersen#, R. Forster	
14, 27	Clinton (Wachusett Res.)	33, 43	M. Lynch, S. Carroll	
Red-breasted Merganser				
7	S. Monomoy	1500	B. Nikula	
Ruddy Duck				
7	Lakeville, Plymouth	30, 18	L. Taylor#, W. Petersen#	
7	S. Monomoy, Southboro	15, 24	B. Nikula, C. Quinlan	
12, 14	Nantucket, Waltham	14, 70	M. Litchfield, R. Forster	
Bald Eagle				
7, 11	Quabbin (G37, G40)	2 ad, 2 imm	M. Lynch, S. Carroll	
17-18, 27	Bridgewater, GMNWR	1 ad, 1 imm	fide K. Anderson, W. Gette	
Northern Harrier				
13, 14	M.V., Middleboro	5, 2	M. Lynch#, W. Petersen#	
28, 29	Bridgewater, P.I.-Salisbury	4, 3	G. D'Entremont#, M. Murphy	
Sharp-shinned Hawk				
thr	10 locations	11 ind	v.o.	
Cooper's Hawk				
7, 9	E. Boston (B.I.), Newton	1, 1 ad	S. Perkins, O. Komar	
22	Lincoln (DFWS)	1 ad	R. Forster#	
Northern Goshawk				
11, 14	Quab. (G40), Paxton	1 imm, 1 ad	M. Lynch#, L. Taylor	
14, 15 on	Middleboro, Brookline	2, 1 imm	W. Petersen#, H. Wiggin + v.o.	
28	Bridgewater	1 ad	G. d'Entremont#	
Red-tailed Hawk				
6	Hamilton-Newbury	6	J. Berry	
14	P.I.-Salisbury	12	P. Roberts#	
Many other reports of 1 or 2 individuals from a wide area.				
Rough-legged Hawk				
7	Halifax, Marshfield	2, 3	W. Petersen#	
14	P.I.-Salisbury	7	P. Roberts#	
20, 28	S. Dartmouth, Bridgewater	1, 2	T. Raymond, G. d'Entremont#	
American Kestrel				
12	Newburyport area	4	M. Kasprzyk	

DATE	LOCATION	NUMBER	OBSERVERS	DECEMBER 1986
Merlin				
13, 29	Vineyard Sound, Salisbury	1, 1	J. Cumming, M. Murphy#	
Peregrine Falcon				
6	Cambridge (M.I.T campus)	1	W. Ebisuzuki	
7, 14	S. Monomoy, N. Monomoy	1 ad, 1 ad	B. Nikula, B. Nikula#	
13	E. Boston (Logan Airport)	1 ad	N. Smith	
Gyr Falcon				
7	S. Monomoy	1 gray	B. Nikula	

GROUSE THROUGH SHRIKES

A Western Sandpiper was found on the Cape Cod CBC making this the fifth December record in fourteen years. More rare, with only two records in fourteen years, was the White-rumped Sandpiper found at Acoaxet. A Long-billed Dowitcher was present at Hyannisport, and its calls were recorded. A Common Murre was found oiled at Nantucket.

Owls found on an "owl prowl" in the Middleboro area included 16 Eastern Screech-Owls, 10 Great Horned Owls, a Barred Owl, and a Long-eared Owl. Two Northern Saw-whet Owls were said to respond to taped calls. A red-phase Eastern Screech-Owl was found injured, nursed back to health on a diet of pet store mice, and released. Another Eastern Screech-Owl was not so lucky; it was found dead in Westport. Better red than dead, I guess.

A Scissor-tailed Flycatcher was still present through December 7 at Nantucket, having been first sighted on November 12. The Eurasian Jackdaw was still present there also. A number of Carolina Wrens were found in northern climes in addition to those usually present in December at southeast coastal locations. The March or April numbers of this species will be interesting after the cold and snowy winter. Winter Wrens were present in Holliston and in Nahant. Eastern Bluebirds were at three locations, and a Bohemian Waxwing was seen in Concord on one day only. Northern Shrikes made a considerable appearance this winter.

G.W.G.

Ruffed Grouse				
1, 28	Hamilton	1, 2	G. d'Entremont	
Northern Bobwhite				
22	Nantucket	26	M. Litchfield	
Clapper Rail				
20	S. Dartmouth	1	T. Raymond	
Virginia Rail				
21	E. Boston	1	J. Cumming	
American Coot				
6, 11, 13	Arlington	16, 10, 19	L. Taylor	
7, 21	Plymouth, Nantucket	100, 12	W. Petersen#, M. Litchfield	
Ruddy Turnstone				
14	Nantucket	37	M. Litchfield	
Sanderling				
7, 14	Nantucket	55, 120	M. Litchfield	
14, 24	PI-Salisbury, Revere	6, 208	P. Roberts#, A. Williams	
Western Sandpiper				
21	Eastham	1	CBC (W. Petersen)	
White-rumped Sandpiper				
6	Acoaxet	1	SSBC (W. Petersen)	
Purple Sandpiper				
6	Westport	90	SSBC (W. Petersen)	
7	Revere	18	BBC (R. Stymeist)	
21	Nantucket	100	A. Nickerson	
Dunlin				
6	Westport	18	SSBC (W. Petersen)	
7	Revere	82	BBC (R. Stymeist)	
24	Revere	63	A. Williams	
Long-billed Dowitcher				
thr	Hyannisport	1-2	S. Clifton + v.o.	
Common Snipe				
13	Lexington	1	L. Taylor	

DATE	LOCATION	NUMBER	OBSERVERS	DECEMBER 1986
American Woodcock				
20	Easton, Buzzards Bay	3, 1	T. Aversa, CBC	
21, 27	Westport, Mid-Cape	1, 1	CBC	
Common Black-headed Gull				
7	Winthrop	8	BBC (R. Stymeist)	
22, 28	Nantucket	1(1W)	M. Litchfield	
24	Revere; Winthrop	1 ad; 3 imm + 1 ad.	A. Williams	
Bonaparte's Gull				
6, 20	Winthrop, Rockport	80, 20 ad.	J. Cumming, J. Berry	
22, 28	Nantucket	258, 625	M. Litchfield	
Iceland Gull				
20, 26	Rockport, PI	6-8, 3 ad + 1(2W)	J. Berry	
20, 28	Barre, Nantucket	3, 28	M. Lynch#, M. Litchfield	
Lesser Black-backed Gull				
2, 4	Norton, Amherst	1 ad., 1 ad.	B. Blodgett#	
Glaucous Gull				
3, 20	Nantucket, Barre	1 ad., 1(1W)	M. Litchfield, M. Lynch#	
Black-legged Kittiwake				
7, 28	Nantucket	40, 35	M. Litchfield	
14	N. Monomoy	1000	B. Nikula	
Common Murre				
13	Nantucket	1 oiled	M. Litchfield	
Thick-billed Murre				
6, 14	Rockport, Marshfield	1, 1	R. Bucci#, J. Hassett	
20, 23	Rockport, Marion	1 or 2, 1	J. Berry, W. Eville	
Razorbill:				
8, 27	Nantucket, Scituate	9, 1	D. Brown, R. Forster	
28, 29	Nantucket, Salisbury	29, 1	M. Litchfield, M. Murphy#	
Black Guillemot				
6, 22	Rockport, P'town	6-8, 8	R. Bucci#, J. Baird#	
28	Nantucket	5	M. Litchfield	
Common Barn-Owl				
13	W. Tisbury	2	M. Lynch#	
Eastern Screech-Owl				
1, 14	Easton	1 red, 1 red	K. Ryan	
6, 12	Westport, Ipswich	1 dead, 2	W. Petersen#, J. Berry#	
27	Lakeville-Middleb.-Bridgew.	16	K. Holmes	
Great Horned Owl				
thr	Ipswich, Middleboro	2 pr, 4	J. Berry, D. Briggs	
14, 20	Revere, Millis	1, 7	A. Salerno, CBC (M. Kasprzyk)	
27	Lakeville-Middleb.-Bridgew.	10	K. Holmes	
Snowy Owl				
10-18	Boston	18 max 12/13	N. Smith + v.o.	
14-28	PI-Salisbury	4 max	v.o.	
14, 11-31	N. Monomoy, Nantucket	2, 2 max 12/14	B. Nikula#, fide M. Litchfield	
7, 17	S. Dartmouth, Malden	1, 1	T. Carrolan, W. Malatesta	
Barred Owl				
13, 20; 21	Hamilton; Plympton	1, 1; 1	J. Berry, T. Lloyd-Evans	
27	Lakeville	1	K. Holmes	
Long-eared Owl				
27	Salisbury, Bridgewater	1 dead, 1 calling	B. Blodgett, K. Holmes	
Short-eared Owl				
6-29, 19	Salisbury, PI	1-2, 1	v.o., T. Aversa	
2, 28	Halifax, Westport	3, 1	K. Anderson, T. Raymond	
31	E. Orleans	1	A. Williams#	
Northern Saw-whet Owl				
12, 20	Lexington, Millis CBC	1, 1	S. Perkins, M. Kasprzyk	
27	Middleboro-Lakeville	2 calling	K. Holmes	
Belted Kingfisher				
7, 14	Lakeville, PI	1, 1	K. Holmes, P. Roberts#	
19	Holliston	1	R. Hildreth	
Red-bellied Woodpecker				
2-29, 7-31		Easton, Pepperell	1 f, 1 K. Ryan, E. Armstrong	
13, 21-31	M.V., Hamilton	1, 1 m	J. Cumming, fide J. Berry	

DATE	LOCATION	NUMBER	OBSERVERS	DECEMBER 1986
Northern Flicker				
6, 12	Holliston, PI	1, 1	R. Hildreth, M. Kasprzyk	
19, 25	Millis, Framingham	1, 1	B. Cassie#, R. Forster	
Pileated Woodpecker				
15	Bedford	1	J. Brunner	
20, 26	Quabbin (G40), Petersham	2, 1	M. Lynch#	
Scissor-tailed Flycatcher				
7, from 11/12	Nantucket	1	M. Litchfield	
Horned Lark				
5, 6	Eastham, PI	20, 10	K. Holmes, J. Berry	
7, 14	Halifax, Rochester	75, 75	L. Taylor#, W. Petersen#	
American Crow				
13, 27	Hamilton	250	J. Berry	
Eurasian Jackdaw				
8	Nantucket	1	F. Bouchard#	
Common Raven				
11	Quabbin (G40)	1	M. Lynch#	
Red-breasted Nuthatch				
6, 13	Nahant, M. V.	1, 3	J. Cumming	
16, 20	DFWS, Petersham	2, 4	R. Forster, A. Williams#	
Carolina Wren				
thr	Brookline, Littleton	2, 2	H. Wiggin, C. Roth	
6, 11	Acoaxet, Holliston	5, 2	SSBC (W. Petersen), R. Hildreth	
28	S. Dartmouth	7	T. Raymond	
Winter Wren				
6; 7, 14	Holliston; Nahant	1; 2	R. Hildreth; J. Cumming, W. Drummond	
Golden-crowned Kinglet				
6, 19	Holliston	13, 4	R. Hildreth	
Ruby-crowned Kinglet				
13	Nantucket	1	M. Litchfield	
Eastern Bluebird				
13, 14	M.V., Rochester	6, 4	J. Cumming, W. Petersen#	
26	Hardwick	3	M. Lynch#	
Hermit Thrush				
3, 6	DFWS, Acoaxet	1, 1	R. Forster, SSBC (W. Petersen)	
10	Stoneham	1	M. Martinek	
American Robin				
11, 13	Marshfield, Lexington	148, 50	J. Hassett, L. Taylor	
28	Lakeville	150	G. d'Entremont	
Gray Catbird				
7, 28	Wellesley, S. Dartmouth	1, 3	C. Quinlan, T. Raymond	
Water Pipit				
6	Westport	1	SSBC (W. Petersen)	
Bohemian Waxwing				
9	Concord	1	R. Walton#	
Cedar Waxwing				
1-12, 12	Concord, Middleboro	32 max 12/13, 150	R. Forster, fide D. Briggs	
Northern Shrike				
12	Salisbury, Lexington	1 ad., 1	M. Kasprzyk, S. Perkins	
20, 27	Petersham, GMNWR	1, 1	A. Williams, W. Gette	
19-29	P.I.	1	v.o.	

WARBLERS THROUGH GROSBEAKS

Orange-crowned Warblers were found in four locations, and late reports of lingering birds were a Nashville Warbler at Nahant and the Black-throated Blue Warbler continued from November in Lincoln. A Yellow-breasted Chat was seen off and on nearly all month at the Nahant Thicket.

Fox Sparrows were again scarce with only three individuals reported. The Harris' Sparrow continued at a feeder all month on Nantucket. Winter finch reports included some Pine Grosbeaks, single reports of White-winged and Red crossbills, and fair numbers of redpolls, siskins, and Evening Grosbeaks.

R.H.S.

DATE	LOCATION	NUMBER	OBSERVERS	DECEMBER 1986
Orange-crowned Warbler				
6-31, 11	Nahant, Marblehead	1 or 2, 1	M. Lynch# + v.o., W. Haukes	
14, 28	Nantucket, Woburn	1, 1	M. Litchfield, J. Cumming	
Nashville Warbler				
6-14	Nahant	1	J. Cumming + v.o.	
Black-throated Blue Warbler				
11	Lincoln (DFWS)	1 m (from Nov.)	H. Roddis	
Yellow-rumped Warbler				
28	P.I.	30	D. Chickering	
Pine Warbler				
8 on, 14	Acton, Rochester	1, 1	D. + M. Quimby, W. Petersen#	
Yellow-breasted Chat				
7 on	Nahant	1	J. Cumming + v.o.	
Rufous-sided Towhee				
3	Millis	1 m	M. Kasprzyk	
American Tree Sparrow				
14	Milford	49	R. Hildreth	
Field Sparrow				
13, 14	N. Middleboro, Assonet	6, 18	K. Holmes, W. Petersen#	
"Ipswich" Sparrow				
21	Ipswich (Cranes Beach)	1	J. Berry#	
Savannah Sparrow				
7	Halifax	4	L. Taylor#	
Fox Sparrow				
4-8, 4	Worcester, Marshfield	1, 1	M. Lynch#, J. Hassett	
14	Holliston	1	R. Hildreth	
Song Sparrow				
14	Milford	7	R. Hildreth	
Swamp Sparrow				
7	Marshfield	4	L. Taylor	
Harris' Sparrow				
8-31 from Nov.	Nantucket	1	fide M. Litchfield + v.o.	
Snow Bunting				
5, 7	Eastham, S. Monomoy	30, 175+	K. Holmes, B. Nikula	
7, 14	Halifax, N. Monomoy	80, 50+	W. Petersen#, B. Nikula	
20	Quabbin (G37)	11	M. Lynch#	
Red-winged Blackbird				
6	Arlington	2	L. Taylor	
Eastern Meadowlark				
6, 7	P.I., Salisbury	1, 3	J. Berry, R. Forster	
30, 31	E. Orleans	3, 5	A. Williams	
Rusty Blackbird				
19	Marshfield	36+	J. Hassett	
Pine Grosbeak				
10	E. Orleans; Quab. (G40)	3, 5; 6	A. Williams; M. Lynch#	
Purple Finch				
13, 30	N. Middleboro	2, 1	K. Holmes	
13, 27	Lexington, Wachusett Res.	6, 5	L. Taylor, M. Lynch#	
Red Crossbill				
7	Quabbin (G37)	8	M. Lynch#	
White-winged Crossbill				
27	N. Andover	1	N. Flanders	
Common Redpoll				
2, 14	Royalston, WBWS	65, 2	K. Hamilton, T. Carrolan	
17, 20	Brighton, Petersham	50, 72	J. Papatseannos, J. Baird	
20	Cambr. (Charles R.)	92	J. Heywood	
Pine Siskin				
thr	Plympton, Middleboro	80, 1-4	C. Davis, D. Briggs	
7, 18	Plymouth, Sudbury	20, 30	W. Petersen#, R. Forster	
28, 29-31	P.I., Arlington	7, 20+	D. Chickering, L. Taylor	
Evening Grosbeak				
thr	Middleboro, Plympton	30+, 100	D. Briggs, C. Chase	
7, 20	Quabbin (G37)	32, 39	M. Lynch#	
18, 20	DFWS, Petersham	10, 33	R. Forster, A. Williams#	



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LIST OF ABBREVIATIONS

ad	adult	F.P.	Fresh Pond, Cambridge
b	banded	G40	Gate 40, Quabbin
br	breeding	H.P.	Halibut Point, Rockport
dk	dark (phase)	I.	Island
f	female	M.V.	Martha's Vineyard
imm	immature	Mt.A.	Mount Auburn Cemetery, Cambridge
ind	individuals	Nant.	Nantucket
juv	juvenile	Newbypt	Newburyport
loc	location	P.I.	Plum Island
lt	light (phase)	Pd	Pond
m	male	P'town	Provincetown
max	maximum	Quab.	Quabbin
migr	migrating	Res.	Reservation
n	nesting	R.P.	Race Point, Provincetown
ph	photographed	S. Dart.	South Dartmouth
pl	plumage	S.N.	Sandy Neck, Barnstable
pr	pair	Stellw.	Stellwagen (Bank)
S	summer (1S = first summer)	BBC	Brookline Bird Club
thr	throughout	BOEM	Bird Observer of Eastern Massachusetts
v.o.	various observers	CBC	Christmas Bird Count
W	winter (2W = second winter)	CCBC	Cape Cod Bird Club
w/	with	DFWS	Drumlin Farm Wildlife Sanctuary
yg	young	DWWS	Daniel Webster Wildlife Sanctuary
#	additional observers	FCBC	Felix Cutler Bird Club
A.A.	Arnold Arboretum	GMNWR	Great Meadows National Wildlife Refuge
A.P.	Andrews Point, Rockport	IRWS	Ipswich River Wildlife Sanctuary
B.I.	Belle Isle, E. Boston	LCES	Lloyd Center for Environmental Studies
B.R.	Bass Rocks, Gloucester	MAS	Massachusetts Audubon Society
Buzz.	Buzzards Bay	MBO	Manomet Bird Observatory
C.	cape as in Cape Cod	MNWS	Marblehead Neck Wildlife Sanctuary
Cambr.	Cambridge	NEHW	New England Hawk Watch
Corp. B.	Corporation Beach, Dennis	ONWR	Oxbow National Wildlife Refuge
E.P.	Eastern Point, Gloucester	PRNWR	Parker River National Wildlife Refuge
F.E.	First Encounter Beach, Eastham	SRV	Sudbury River Valley
F.H.	Fort Hill, Eastham	SSBC	South Shore Bird Club
F.M.	Fowl Meadow	WBWS	Wellfleet Bay Wildlife Sanctuary