Field Records February 1984



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

February was extremely mild and wet; the temperature averaged 37.6° , 6.9° above normal. The only warmer February in 114 years of official records was that of 1925 when the average temperature was 38.0° . The highest temperature was a balmy 60° on February 23, and on the twelfth the mercury reached 58° , a new record high for that date. The month's low was 13° on February 8 and 10. A remarkable long stretch of warmer than normal days began on the eleventh and extended for eighteen days through February 28; this was one of the longest such runs on record. At Blue Hill Observatory in Milton, a new February mean record of 35.2° was set, 7.9° above normal.

Precipitation totaled 7.81 inches, 3.97 inches more than average and a new official record for the past 114 years, surpassing the old record of 7.08 inches set in 1969. Snowfall on the other hand totaled but 0.3 inch, 11.5 inches less than average. Fog was frequent and heavy and occurred on four days, twice the average number.

LOONS THROUGH WATERFOWL

A small loon was reported off Folly Cove, Rockport on February 8. The bird was beginning to show breeding plumage, and the observers were convinced they saw an Arctic Loon. A few Double-crested Cormorants were again noted with eight found in Squantum.

The Tundra Swan found in December continued in Plymouth. Other highlights included two Eurasian Wigeon, three King Eider, and twenty-two Harlequin Pucks at Chilmark, Martha's Vineyard.

SPECIES/DATE	LOCATION	NUMBER	OBSERVERS FEBRUARY 1984
Common Loon:			
5.10	Newbypt, C.Ann	6, 10	G.d'Entremont#(both)
17-20	M.V.	200+	R.Sargent#
Arctic Loon:	rı.v.	2007	K. Sargents
8	Rockport (Folly Cove)	1	H.Wiggin, M. Argue
Horned Grebe:	ROCKPOIL (FOILY COVE)	1	n.wiggin,n.Argue
3.5	P.I., Boston Harbor	25 20	N Pine TAGE
11,17-20		25, 29	N.King, TASL
Red-necked Grebe	C.Ann,M.V.	10, 14	BBC, R. Sargent#
		07 00 E0 W 11-	1-1 C 11F-1
12,20,21			lsh,G.d'Entremont#,W.Petersen#
12,19	N.Scituate	11, 6	B.Sorrie#,R.Abrams
14,21	Dennis, Rockport	14, 19	B.Nikula, W.Petersen
Northern Gannet:			
5,26	C.Ann	7, 2	SSBC,BBC
11,22	P'town	18, 50	D.Brown#, W.Petersen#
29	Edgartown	150+	W.Manter, V.Laux
Great Cormorant:			
5	Boston Harbor	346	TASL
Double-crested (Cormorant:		
5,12	Squantum, Falmouth	8, 1 imm.	TASL, R. Heil#
20,21	Rockport, Falmouth	1, 3	D.Brown#, R.Walton
American Bittern		38071	
5,10	P.I.	1, 1	G.d'Entremont, R.Coyle#
Great Blue Heron	1:	-, -	,,,,,
4	Squantum, E. Bridgewater	2, 1	G.d'Entremont, W. Petersen
17-20,23	m.V.,Osterville	18, 5	R.Sargent#,J.Berry
Black-crowned Ni		,	Some Bone 1, 30 . Del L'y
5,17-20	Scituate, M.V.	1, 1	E.Cutler, R. Sargent
-,		-, -	D. Outlet, M. Dargent

SPECIES/DATE	LOCATION	NUMBER	OBSERVERS FEBRUARY 1984
Tundra Swan:			
Feb.	Plymouth	1	D.Clapp,fide R.Forster
Mute Swan: 18	Westport	158	H.Merriman
Snow Goose:			
26	Newbypt	1	P.Roberts
Brant:	-	1506	
5	Boston Harbor	1596	TASL
25,26	Newbypt,Scituate	35, 500	BBC,I.Giriunas
Green-winged Teal: 22	E.Orleans,Wayland	1, 2	W.Petersen#, R.Forster
American Black Duc		F00 ⁺ 1510	
5	Westport, Boston Harbor	500 ⁺ , 1512 2000 ⁻ , 500+	T. Raymond, TASL
7,25 Northern Pintail:	Halifax, Newbypt-P.I.	2000-, 300+	K.Anderson, BBC
	Wayland, W. Bridgewater	3, 12	R.Walton, W. Petersen
24,26 Northern Shoveler:		3, 12	R. Walton, W. Tetersen
18-19,25	Squantum, P.I.	2, 1	R.Abrams+v.o.,BBC
Gadwall:		-, -	
26	Ipswich	17	J.Berry
Eurasian Wigeon:	1.4	E.	
4-22,26-29	E.Orleans, Chilmark	1 m., 1 m.	A.Williams+v.o.,W.Manter#
American Wigeon:			
8,20	Cambridge, Braintree	6, 3	F. Bouchard, R. Abrams
Canvasback:			
5	Assonet, Westport	110, 130	T.Raymond(both)
11	Falmouth, Lakeville	125, 4	SSBC,G.d'Entremont#
18	Westport	115	H.Merriman
Redhead:	Access Andread 11 a	1 1	T Bormand U Batarcon#
5,18+20	Assonet, Lakeville	1, 1 m. 2, 50	T.Raymond, W.Petersen# M.Lynch#, R.Sargent+v.o.
12,17-20	Falmouth, M.V.	2, 30	H. Lynch, K. Sargent + V. O.
Ring-necked Duck: 13,22	Lakeville, Millis	15, 5	D.Briggs, B.Cassie
Greater Scaup:		1135 II	
5	Boston Harbor	3653	TASL
Lesser Scaup:			AND THE RESERVE OF THE PROPERTY OF THE PROPERT
17-20,20	M.V.,Lakeville	11, 100+	R.Sargent#,W.Petersen
Common Eider:			T107
5	Boston Harbor	5319	TASL
King Eider:	0.1.	1 -1 -	R.Abrams+v.o.
1-26	Scituate	1 ad. m.	R.Heil, W. Petersen#
19,21	Newbypt, Magnolia	1 f., 1 f.	A. Hear, W. L. Colour
Harlequin Duck: thr.	Chilmark, M. V.	max. 22 (2/2)	W.Manter
thr.	Rockport, P'town	4-6, 1 imm. m.	v.o., v.o.
11-26,21	N.Scituate, Gloucester	max. 8, 2 m.	W.Petersen#+v.o.(both)
Common Goldeneye:	300 37 32 33 34 35 37 37 37 37 37 37 37 37 37 37 37 37 37		
5,19	Boston Harbor, Newbypt	1622, 1900+	TASL, R. Heil
21,25	Lakeville, GMNWR	150+, 34	D.Briggs, R.Walton
Barrow's Goldeney	e:		
thr.		max., 8 (2/12, 2/	
5,11-26	Gloucester, N. Scituate	2, 1	SSBC,W.Petersen#+v.o.
29	M.V., Squantum	2, 7	W.Manter#,D.Brown
Bufflehead:		1/07	TASL
5	Boston Harbor	1497	IASL
Hooded Merganser:	Boston Harbor, Assonet	3, 6	TASL, T. Raymond
5	Brighton, Cambridge	3, 1	J.Paputseanos,F.Bouchard
5,8 12,13	Watertown, Lakeville	2, 6	J.Heywood#, D.Briggs
22,26	Wayland, Milton	3, 2	R. Forster, G.d'Entremont
Common Merganser:			
4,5	E.Orleans, Assonet	25, 15	A.Williams, T. Raymond
18,20	Milton, Braintree	31, 188	R.Abrams(both)
Red-breasted Merg			and the second s
3,17-20	P.I.,M.V.	500, 800	N.King#,R.Sargent#
Ruddy Duck:	1272	121	D Prices
13	Lakeville	1	D.Briggs

VULTURES THROUGH WOODPECKERS

Turkey Vultures were moving into the region at month's end. A total of sixteen Bald Eagles was reported from four locations, and two-thirds of them were subadult birds. One subadult was marked with a blue plastic streamer attached to the wing. All of the accipiters were represented in this month's reports. A Red-shouldered Hawk was seen on a suet feeder in Concord, and Red-tailed Hawks were noted in abundance with ninety to a hundred reported. A large falcon was observed and photographed at Squantum in midmonth. Although the quality of the photographs is not good, they are sufficiently clear to create some question about the identity of the bird. Examination by experts may prove definitive. A covey of twelve Bobwhite was noted in Belmont, the first covey in four years that the observer had seen there in spite of intensive coverage of the area.

Shorebirds again produced no surprises with the usual winter types present but not in any impressive numbers. Woodcock were seen displaying at Chatham on February 15, however. There were four Common Black-headed Gulls reported this month and no little Gulls. An estimated 5000 gulls of three species - Great Black-backed, Herring, and Ring-billed - were seen sitting on the ice at Lake Assawompsett in Lakeville on the twelfth. Fifty or more Iceland (Kumlein's) Gulls were present at Cape Ann and at Nantucket with reports of others at various locations. Glaucous Gulls were reported from eight locations and Black-legged Kittiwakes were noted at coastal locations and in Boston Harbor.

Four species of alcids, not including Dovekie, were reported with 170 and 215 Black Guillemots at Provincetown on February 11 and 12 where an immature Atlantic Puffic was seen on the fifth.

A Mourning Dove was seen nest building in Concord on February 23 and Great Horned Owls were seen on nests in Marshfield and Middleboro.

Red-headed and Red-bellied woodpeckers were noted on Martha's Vineyard where thirty to forty Northern Flickers were counted also. A Yellow-bellied Sapsucker continued from January at a feeder in Belmont but was seen only once this month. A male Downy Woodpecker was seen excavating a nest hole in Osterville.

G.W.G.

SPECIES/DATE	LOCATION	NUMBER	OBSERVERS FEBRUARY 1984
Turkey Vulture:			
25,26	Quabbin, Milton	3, 1	SSBC,S.Higginbotham
26,27	Holliston, Lincoln	1, 1	J.Baird, T. Urguhart
29	Wayland, Worcester Coun		R.Forster, R.Kleber
Bald Eagle:			
thr.	Quabbin	max. 5 ad., 5 im	n. v.o.
thr.	Newbypt-P.I. max. 1 ad		
5-26	Westport	1 imm.	V.O.
12	Lakeville	1 ad.	D.Briggs
Northern Harrie	r:		
thr.	P.I.	max. 7	V.O.
5	Hingham	2	TASL
3-20	Middleboro	max. 3 f., 2 m.	K.Anderson
17-20	M.V.	4	R.Sargent#
Sharp-shinned H			•
1,11	E. Middleboro, Marshfiel	d 1 m., 1	K.Anderson, W.Petersen#
19,17-20	N.Scituate, M.V.	1, 2	R.Abrams, R.Sargent#
22	Orleans	1	R.Walton
Cooper's Hawk:			
19,21	Worcester, Weymouth	1, 1	T.Walsh, R. Campbell
20-29	Chatham	1 ad.	P.Trull#
27	Sudbury	1 ad.	R.Forster
Northern Goshaw	k:		
10,13	E.Middleboro	1	K.Anderson
11	Westminister	1	R.Stymeist#
Red-shouldered	Hawk:		
thr.	Orleans, Concord	1 ad., 1 ad.	v.o.,fide R.Walton
Red-tailed Hawk			
5,10	Randolph, Middlesex Cour	ntv 11, 12	H.Mallers, J.O'Regan#
17-20	M.V.	15-18	R.Sargent#
19	Newbypt-Salisbury	10	P.Roberts
25	13 seen on a day trip	from Bridgewater to	Quabbin.
thr.	25-30 seen at 14 locat		

SPECIES/DATE	LOCATION	NUMBER	OBSERVERS FEBRUARY 1984
Rough-legged Hawl	k:		
thr.	Newbypt-P.I.	max. 6 (2/10)	v.o.
3-20	E.Middleboro	max. 4 (2/20)	K.Anderson
5	Salisbury	5 (3 dk.)	G.d'Entremont#
11,12	Marshfield, Truro	3, 1	W.Petersen#,B.Nikula
Golden Eagle:	Quabbin(Gate 43)	1 imm.	M.Lynch, S.Carroll
American Kestrel		1 /	O.Komar, G.d'Entremont
1,11 19,25	Newton, Quincy Newbypt, Salisbury	1, 4 5, 8	P.Roberts, BBC
Merlin: 3,19	Newbypt	1, 1 ad. f.	N.King#,BbC
Peregrine Falcon		1	W.Manter
28 Falco sp.:	M.V.	1	w.nancer
19	Squantum	1 (ph.)	BBC(D.Brown)
Ruffed Grouse: 5,27	Amesbury, Milton	1, 1	G.d'Entremont, D. Brown
Northern Bobwhit	e:	12 15	L.Taylor,J.Berry#
12,17 Sora:	Belmont,Osterville	12, 15	
5	Ipswich	1	G.d'Entremont#
Black-bellied Pl 17-20	over: M.V.	7	R.Sargent#
Killdeer:			
11,22 Ruddy Turnstone:	Orleans, Millis	1, 1	B.Nikula, B. Cassie
1,19	N.Scituate	8, 25	R.Abrams
Sanderling: 5,17-20	Nahant, M.V.	30, 25-30	TASL,R.Sargent#
Purple Sandpiper			
thr.	N.Scituate	max. 300 (2/1)	R.Abrams
5-11	C.Ann	max. 175	v.o.
5,26	Nahant	85, 100	TASL, BBC
6	Marshfield	50	S.Higginbotham
Dunlin:			
5,6	Nahant, Marshfield	2, 30	TASL, S. Higginbotham
17-20,26	M.V., Westport	10, 60	R.Sargent#,G.Gove
Common Snipe:	Newbypt	1	BBC
American Woodcoo			
15,20	Chatham, Lynn	2, 1	B.Nikula, C. Jackson
Common Black-hea		-, -	
thr.	P'town	1 (1W)	v.o.
5	Winthrop	1	TASL
5-12	Gloucester	2 (1W)	v.o.
Bonaparte's Gul		(5) (5)(6)	
26	C.Ann	20	BBC
Ring-billed Gul			
17-20,22	M.V.,Osterville	50, 50	R.Sargent#, J.Berry
Herring Gull:			Section and Company of the Company o
17-20	M.V.	1500+	R.Sargent#
Iceland Gull:			
thr.	Gloucester, Newbypt	max. 40 (2/11),	max. 15 (2/5) v.o.
1,5	Nant., C. Ann	50, 50	W.Manter#,SSBC
2	Cambridge	1	L.Robinson
11-22	P'town	max. 12 (2/22)	V.O.
Glaucous Gull:			
1,6	N.Scituate, Marshfield	1 (2W), 1	R.Abrams, S.Higginbotham
5,8	Gloucester	2, 1	SSBC,M.Argue#
5	Nahant, E. Boston	1, 1	TASL
11	P'town	1	D.Brown#
26	Salisbury, Plymouth	1 (1W), 1 (1W)	P.Roberts, B.Sorrie#
Black-legged Ki			
5	Rockport, Boston Harbor		SSBC, TASL
17-20	M.V.	40-50	R.Sargent#
22	P'town	1000	W.Petersen#
Thick-billed Mu			
11,12	P'town	3, 1	D.Brown#,B.Nikula
19,25	Quincy, N. Scituate	1, 1	BBC, B. Sorrie#

SPECIES/DATE	LOCATION	NUMBER	OBSERVERS FEBRUARY 1984
Razorbill:			
17-20	M.V.	1	R.Sargent#
Black Guillemot:			
thr.	C.Ann	max. 7 (2/5)	v.o.
5-22	P'town	170 (2/11), 215 (2/12) v.o.
11-26	N.Scituate	max. 26 (2/12)	B.Sorrie#
Atlantic Puffin:			
5	P'town	1 imm.	H.Merriman#
Mourning Dove:			
thr.	Brookline	max. 59	B.Rielly#
17-20	M.V.	60	R.Sargent#
23	Concord	1 (building nest)	R.Walton
Common Barn-Owl:			
17-20	M.V.	2	R.Sargent#
Eastern Screech-O	w1:		
17-20	M.V.	2	R.Sargent#
Great Horned Owl:		Ō	
thr.	P.I.	1	v.o.
11,20	Marshfield, Middleboro	1, 1	W.Petersen#
11,20	Both these birds were	1	
19	Milton	2	BBC
19	Reports of 6 from 6 1c		
Snowy Owl:	Reports of o from o re	cacrono.	
thr.	M.V.,P.I.	1, max. 2	v.o.
5,10	E.Boston, Salisbury	1, 1 (dk.)	TASL, J.O'Regan#
Barred Owl:	E. Boscon, Salisbury	1, 1 (42.)	INDL, 5.0 Regalis
3,23	IRWS, Cambridge	1, 1	R.Heil,F.Bouchard
27	Boston	1	N.Weir
Short-eared Owl:	BOSCOII	-	n.mc11
17,17-20	P.I.,M.V.	1, 1	NWR staff, R. Sargent#
26	E.Boston	1	C. Jackson
Northern Saw-whet		*	O. Duckson
6	Little Nahant	1	W.Crawford
15,25	P.I.,Milton	1, 1	NWR staff, G.d'Entremont
Belted Kingfisher		-, -	min ocarr, ora micromone
		1, 1	G.d'Entremont, L. Taylor
5,11	Newbury, Belmont	2, 5	W.Petersen#,R.Sargent#
11,17-20	Marshfield, M.V.	2, 3	w.recerseng, K. Dargency
Red-headed Woodpe		2	R.Sargent
17-20	M.V.	2	K. Sargent
Red-bellied Woodp			D. Command
17-20	M.V.	1	R.Sargent#
Yellow-bellied Sa			7 114
10	Belmont	1 ad. m. from Jan	i. J.Wissman
Downy Woodpecker:			
5,22	Newbypt, Osterville	15, 1 m.	G.d'Entremont, J. Berry
Hairy Woodpecker:			
thr.	Easton	pr.	K.Ryan
12,25	E.Middleboro,Milton	3, 3	K.Anderson, G.d * Entremont
Northern Flicker:			
			n 11
9	Squantum	4	R.Abrams
9 17-20	Squantum M.V.	4 30-40	R.Abrams R.Sargent#
9	Squantum M.V.		

HORNED LARK THROUGH EVENING GROSBEAK

The end of February usually brings the first influx of spring migrants. This year by 22 February all four regularly-occurring blackbird species had reached the North Shore in numbers. In the same area, Ruby-crowned Kinglet successfully overwintered at least until late February. Inland, a small group of Tree Swallows in Baldwinville constituted arrivals early by about a month.

Several species were reported in impressive numbers on single days during February. The one hundred Fish Crows in Natick provided a good winter count, though at an expected location. Good counts of Carolina Wren were made at both Falmouth and the Marshfield/ Scituate area, the latter count consisting mostly of birds singing due to the abnormally warm weather. Also in Falmouth, eighteen Rufous-sided Towhees represent a normal number for a winter count. This species is usually found in distinctly smaller numbers, early-on into the winter and Christmas Count time.

Rarities for the month included upwards of twenty Bohemian Waxwings in the Athol area. This continued a 1983-84 winter trend of substantial Bohemian Waxwing counts. Lesser numbers of the Athol waxwings lingered for a few weeks. The Orleans Clay-colored Sparrow continued in place for yet another month.

L.E.T.

CDECTEC /DAME	T O O L MT ON	MIDWED	ODGERHURDS PERRIARY 100/
SPECIES/DATE	LOCATION	NUMBER	OBSERVERS FEBRUARY 1984
Horned Lark:			
6,25	Duxbury,P.I.	12, 30	S.Higginbotham, BBC
Tree Swallow:	Baldwinville	4	J.O'Regan
26 American Crow:	baldwinville	7	J.O Regaii
3-22,20	Halifax, Sudbury	100 max., 150-	K.Anderson, F. Bouchard
Fish Crow:			
19,27	Natick, Newton	100, 1	T.Walsh, O.Komar
Common Raven: 25	Hardwick	1-2	SSBC
Black-capped Chick			
3,12	IRWS, Falmouth	110+, 185+	R.Heil
Boreal Chickadee:			
4,27 Red-breasted Nutha	Newbypt,Milton	1, 1	BBC, D. Brown
4-25,5	Newbypt, Ipswich	5 max., 1	v.o.,BBC
17-20,22	M.V.,Osterville	3, 5	R.Sargent#,J.Berry
Brown Creeper:			
23,25	Osterville,Braintree	3, 7	J.Berry,G.d'Entremont
Carolina Wren:	Marshfield/Scituate,Fa	Imouth 10 17	D Clans B Heil
8,12 Winter Wren:	Maishileid/Scituate, ra	imouth 10, 17	D.Clapp, R. Heil
23	Cambridge (F.P.)	1	F. Bouchard
Golden-crowned Kin	nglet:		
17-20,22	M.V.,Osterville	25, 4	R.Sargent#,J.Berry
Ruby-crowned King		1	R.Heil
Eastern Bluebird:	S.Peabody	1	K, nell
10,29	M.V.	1	W.Manter#
Hermit Thrush:			
12	Falmouth	3	R.Heil
American Robin:	Noveton Monahédald	15 6	0 V P (1
4-13,27 Gray Catbird:	Newton, Marshfield	15 max., 6	O.Komar, D. Clapp
4,12	Squantum, Falmouth	1, 2	R.Abrams, R.Heil
17-20,22	M.V.,Salem	1, 1	R.Sargent#, R.Heil
Brown Thrasher:			
12,17-20	Rockport, M.V.	1, 1	T.Walsh, R. Sargent#
Cedar Waxwing: thr.,11-12	Middleboro, Athol	150 max. (2/5).	56 D.Briggs,v.o.
Bohemian Waxwing:			20 2,22,2682,1101
1-12	Athol	20 max.	m.ob.
Northern Shrike:			
1,5 7-25,19	Nant.,P'town P.I.,Chatham	1, 1 1, 1	V.Laux#,H.Stabins# v.o.,P.Trull
Yellow-rumped Warl		1, 1	v.o.,r.11u11
9,17-20	Squantum, M. V.	50 [±] , 45 [±]	D.Brown, R. Sargent#
Northern Cardinal		+	
12,17-20	Falmouth, M.V.	52 - , 12	R.Heil#,R.Sargent
Rufous-sided Towho	ee: Brookline,IRWS	1, 1	W Missis B Weil
12,17-20	Falmouth, M. V.	18, 1	H.Wiggin,R.Heil R.Heil,R.Sargent
American Tree Span		77. 7	Winess, Winness
9,11	Squantum, Belmont	20, 35	R.Abrams, L. Taylor
Clay-colored Spar			
from Dec-22	Orleans	1	v.o.
Field Sparrow: 20,22	Westport, Orleans	8, 13	R. Lanbach, R. Walton
Savannah Sparrow:		-,	II, Dalloucii, II, III accom
17-20	M.V.	12	R.Sargent#
Fox Sparrow:			
from Jan-12, thr.	Wayland,Watertown	1, 2	H.Parker, B.Phillips
Swamp Sparrow: 11,20	Squantum, Westport	1, 1	G.d'Entremont, R. Lanbach
11,20	oquaticum, neachor c	-, -	o. a bittemone, w. bandaen

SPECIES/DATE	LOCATION	NUMBER	OBSERVERS FEBRUARY 1984
SPECIES/DATE	BOOKETON	Table Table	
White-throated S	Sparrow:	4	
17-20,26	M.V.,Brookline	25-, 10 R.Sargent#, B.Rielly#	
White-crowned Sp	parrow:		
from Jan. thr.	Feb. M.V.	1 (feeder)	W.Manter
Lapland Longspur	:		
19	Salisbury	1	BBC
Snow Bunting:		4	
thr.,6	Fall River, Duxbury	10+, 6	R.Caron, S. Higginbotham
12-25,17-20	Hardwick, M.V.	3 max., 8	v.o.,R.Sargent#
Red-winged Black	bird:		
20,22,25	M.V., Millis, P.I.	general arrival	V.O.
Eastern Meadowla	irk:		
10	Westport	11	R.Lanbach
Rusty Blackbird:			
11,29	Middleboro, Milton	6, 6	v.o.,D.Brown
Common Grackle:			
20,25	Middleboro, Newbypt	5, 40	K.Anderson, E.Nielsen#
Brown-headed Cov	wbird:		
5,12	Lexington, Athol	15, 5	A.Williams, G.d'Entremont#
22,29	Millis, Concord	15, 100	B.Cassie, R.Forster
Pine Grosbeak:			
5,12-18	Hamilton, Athol	1, 12	G.d'Entremont, v.o.
21,27	Hardwick, N. Weymouth	4, 3	R.Forster, D. Brown
House Finch:			
17-20,18	M.V.,Cohasset	65, 60	R.Sargent#,H.Mallers
Purple Finch:			
1,18	Westport, Cohasset	7, 10	R.Lanbach, H.Mallers
Common Redpoll:			
from Jan. thr.	Feb. 29 Squantum, Milton	3 max., 4	v.o.,D.Brown
Pine Siskin:			
thr, 5	Middleboro, Salisbury		25 D.Briggs,R.Campbell#
23	Lincoln	7 R.Forster	
Evening Grosbeak			
thr.	Middleboro, S. Middleboro	85, 150 max.	D.Briggs,S.MacDonald
11,18	Athol, Cohasset	271, 28	R.Stymeist#,H.Mallers

LIST OF ABBREVIATIONS

ad.	adult	F.M.	Fowl Meadow, Milton
alt.	alternate (plumage)	gr.	greater as in Gr. Boston area
b.	banded	ī.	Island
br.	breeding	M.V.	Martha's Vineyard
dk.	dark (phase)	Mt.A.	Mt. Auburn Cemetery, Cambridge
f.	female	Nant.	Nantucket
fl.	fledge	Newbypt	Newburyport
imm.	immature	ONWR	Oxbow National Wildlife Refuge
ind.	individuals	P.I.	Plum Island
loc.	locations	P'town	Provincetown
lt.	light (phase)	R.P.	Race Point, Provincetown
m.	male	S.N.	Sandy Neck, Barnstable
max.	maximum	A TOTAL OF THE STREET	Stellwagen (Bank)
migr.	migrating	ABC	Allen Bird Club
ph.	photographed	BBC	Brookline Bird Club
	plumage	BOEM	Bird Observer of Eastern Massachusetts
	pair	CBC	Christmas Bird Count
#101000	throughout	DFWS	Drumlin Farm Wildlife Sanctuary
v.o.	various observers	FBC	Forbush Bird Club
W	winter (2W = second winter)	GBBBC	Greater Boston Breeding Bird Census
	with	GMNWR	Great Meadows National Wildlife Refuge
	young	IRWS	Ipswich River Wildlife Sanctuary
#	additional observers	MAS	Massachusetts Audubon Society
A. A.	Arnold Arboretum	MBO	Manomet Bird Observatory
A.P.	Andrews Point, Rockport	MNWS	Marblehead Neck Wildlife Sanctuary
	Buzzards (Bay)	NBBC	Newburyport Breeding Bird Census
	Cape Cod	SSBC	South Shore Bird Club
	Eastern Point, Gloucester	TASL	Take a Second Look (BOEM project)
	First Encounter Beach, Eastham	WBWS	Wellfleet Bay Wildlife Sanctuary
	Fort Hill, Eastham	WMWS	Wachusett Meadows Wildlife Sanctuary
r.n.	rore mill, basemam	HPING	machabett meadows wildlife banctuary