



CHRISTMAS BIRD COUNT 12/19/97-1/4/98

Compiled by Marjorie W. Rines and Robert H. Stymeist

The ninety-eighth annual Christmas Bird Count (CBC), sponsored by the National Audubon Society, was held from December 19, 1997, to January 4, 1998. Eastern Massachusetts and a portion of Rhode Island contain twenty-six count areas (see map). Results from these counts (except Westminster and Tuckernuck, which were not received) are summarized in the following pages. The count totaled 191 species, plus "Blue" Goose, "Ipswich" Sparrow, and "Oregon" Junco. Two species were found during the CBC period but not on count day: a Laughing Gull in Greater Boston and a Red-headed Woodpecker in Sturbridge. Whooper Swans were counted on the Newburyport CBC, but are not recognized as a "wild" species. On Nantucket, a "Yellow-shafted/Red-shafted" Northern Flicker was noted.

Tufted Ducks and Black Vultures are noteworthy any time, but two of each were reported this CBC period. Shorebirds made an astonishing showing, with Lesser Yellowlegs, Whimbrel, Marbled Godwit, and a show-stopping Bar-tailed Godwit being counted. The gull show on Nantucket is always impressive, and this year was no exception, with seven Little Gulls, nearly 10,000 Bonaparte's Gulls, and a well-documented Thayer's Gull. A Hermit Warbler, discovered on Martha's Vineyard on December 21, obligingly showed up for CBC counters. Winter finches made a very respectable showing.

In the following table birds identified only by species type, such as "scaup species," are not shown. Therefore the totals of individuals supplied by the compilers may not add up with the numbers on the charts.

We wish to thank all of the compilers who contributed their time to prepare the results for this summary: **Lou Wagner**, Andover; **Dave Small**, Athol; **Richard Harlow**, Buzzards Bay; **Dick McHale**, Cape Ann; **Blair Nikula**, Cape Cod; **Richard Walton**, Concord; **Robert Stymeist**, Greater Boston; **Warren Harrington**, Marshfield; **Robert Culbert**, Martha's Vineyard; **Peter Trimble**, Mid-Cape Cod; **Elissa Landre**, Millis; **Edith Andrews**, Nantucket; **Michael Boucher**, New Bedford; **Tom Young**, Newburyport; **Trevor Lloyd-Evans**, Plymouth; **Scott Surner**, Quabbin; **Glenn d'Entremont** and **Patty O'Neil**, Quincy; **Simon Perkins**, Stellwagen; **Mark Lynch**, Sturbridge; **Steve Arena**, Taunton-Middleboro; **Tom Lipski**, Truro; **Richard Hildreth**, Uxbridge; **Fran McMenemy**, Worcester; **Dave Emerson**, Newport, RI/Westport, MA.

Map on facing page: Each Christmas Count Circle was located by the latitude and longitude (in degrees and minutes) of its center. Athol (1), Buzzards Bay (2), Cape Ann (3), Cape Cod (4), Concord (6), Greater Boston (7), Marshfield (9), Martha's Vineyard (10), Mid-Cape Cod (11), Millis (12), Nantucket (13), New Bedford (14), Newburyport (15), Plymouth (18), Quincy (19), Taunton-Middleboro (21), Uxbridge, MA/RI (23), Worcester (25), Newport County, RI/Westport, MA (26), Stellwagen Bank (27), Quabbin (28), Andover (29), Sturbridge (31), Truro (32).

98th CHRISTMAS BIRD COUNT, December 19, 1997-January 4, 1998

species	And.	Athol	B. B.	C. Ann	C. Cod	Conc.	Gr. Bos.	Marsh.	M. V.	Mid-C.	Millis
Red-throated Loon	0	0	5	6	37	0	19	9	158	5	0
Common Loon	0	2	48	42	45	0	4	25	324	69	0
Pacific/Arctic Loon	0	0	0	0	0	0	0	0	0	0	0
Pied-billed Grebe	0	0	17	0	25	0	3	0	4	5	0
Horned Grebe	0	0	117	43	71	0	43	3	57	70	0
Red-necked Grebe	0	0	1	15	7	0	38	26	10	4	0
Eared Grebe	0	0	0	0	0	0	0	0	0	1	0
Northern Gannet	0	0	0	17	357	0	0	5	105	14	0
Great Cormorant	9	0	8	185	22	0	11	2	102	27	0
Double-cr. Cormorant	1	0	3	1	5	1	14	1	12	0	0
American Bittern	0	0	0	0	0	0	0	0	0	0	0
Great Blue Heron	2	1	29	0	104	21	30	24	40	45	4
Black-cr. Night-Heron	0	0	0	0	5	0	0	0	1	0	0
Mute Swan	0	0	51	22	14	2	20	21	217	84	20
Snow Goose	0	0	0	0	2	0	5	0	15	0	1
"Blue" Goose	0	0	0	0	0	0	0	0	1	0	0
Brant	0	0	26	0	2068	0	991	335	20	190	0
Canada Goose	1849	138	803	1282	2790	1876	3688	1061	2150	993	2127
Wood Duck	0	1	1	0	0	3	8	6	4	1	0
Green-winged Teal	0	0	2	0	22	9	16	4	32	24	0
American Black Duck	18	60	529	353	2965	225	802	1361	1100	2453	94
Mallard	645	12	417	765	291	855	2513	421	950	605	671
Northern Pintail	0	0	1	0	1	5	2	1	5	9	0
Northern Shoveler	0	0	0	0	0	0	1	0	1	3	0
Gadwall	0	0	14	40	9	0	17	24	12	168	0
Eurasian Wigeon	0	0	0	0	2	0	0	0	0	0	0
American Wigeon	0	0	7	0	104	0	16	0	18	147	0
Canvasback	0	0	64	0	59	0	0	0	21	37	0
Redhead	0	0	1	0	0	0	0	0	30	0	0
Ring-necked Duck	0	0	123	8	1	2	28	118	31	133	8
Tufted Duck	0	0	0	0	0	0	0	0	0	0	0
Greater Scaup	0	0	1600	1	89	0	41	0	220	8	0
Lesser Scaup	0	0	0	0	3	1	1	0	12	32	0
Common Eider	0	0	3516	1257	5050	0	3904	4239	23500	3637	0
King Eider	0	0	0	0	2	0	0	0	0	0	0
Harlequin Duck	0	0	0	40	2	0	1	2	54	2	0
Oldsquaw	0	0	92	105	127	0	3	106	220	752	0
Black Scoter	0	0	4	2	82	0	2	3	3950	7	0
Surf Scoter	0	0	59	19	86	0	18	4	52	59	0
White-winged Scoter	0	0	570	86	384	0	326	199	575	117	0
Common Goldeneye	173	5	683	324	392	41	318	134	975	242	5
Barrow's Goldeneye	0	0	1	1	0	0	1	0	1	1	0
Bufflehead	0	0	1078	375	1286	1	620	342	1700	1191	2
Hooded Merganser	6	2	238	0	132	24	136	12	150	87	13
Common Merganser	29	106	89	5	152	90	182	10	6	105	51
Red-br. Merganser	0	0	707	334	1057	0	414	259	890	301	0
Ruddy Duck	0	0	72	1	35	2	118	0	49	0	4
Black Vulture	0	0	0	0	0	0	0	1	0	0	1
Turkey Vulture	0	0	0	1	0	0	0	0	0	0	0
Bald Eagle	0	3	0	0	0	0	1	0	1	0	0
Northern Harrier	0	0	5	4	14	0	4	15	9	29	0
Sharp-shinned Hawk	3	1	7	6	8	11	7	6	9	5	5
Cooper's Hawk	1	2	10	1	7	8	5	5	7	5	2

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species	And.	Athol	B. B.	C. Ann	C. Cod	Conc.	Gr. Bos.	Marsh.	M. V.	Mid-C.	Millis
Northern Goshawk	0	0	0	0	0	1	1	1	0	0	0
Red-shouldered Hawk	1	1	0	1	0	5	0	4	0	0	0
Red-tailed Hawk	16	12	10	31	18	107	95	29	53	12	44
Rough-legged Hawk	0	0	0	0	0	1	0	1	0	0	0
Golden Eagle	0	0	0	0	0	0	0	0	0	0	0
American Kestrel	1	0	4	0	1	1	9	0	0	1	0
Merlin	0	0	0	0	2	1	3	0	2	0	0
Peregrine Falcon	1	0	0	1	0	0	6	1	2	2	0
Ring-necked Pheasant	4	3	8	1	0	10	6	1	2	1	8
Ruffed Grouse	0	2	1	1	1	5	0	1	1	0	15
Wild Turkey	4	180	0	0	0	9	1	7	46	8	100
Northern Bobwhite	0	0	26	0	6	10	0	1	6	16	0
Clapper Rail	0	0	1	0	0	0	0	0	0	0	0
Virginia Rail	0	0	0	0	2	0	0	3	3	2	0
Sora	0	0	0	0	1	0	0	0	0	1	0
American Coot	0	0	12	0	45	0	175	1	15	2	7
American Oystercatcher	0	0	0	0	0	0	0	0	1	0	0
Black-bellied Plover	0	0	5	0	7	0	1	0	37	0	0
Killdeer	0	1	7	0	0	0	0	0	0	1	0
Greater Yellowlegs	0	0	1	0	10	0	2	0	2	4	0
Lesser Yellowlegs	0	0	0	0	1	0	0	0	0	0	0
Whimbrel	0	0	0	0	0	0	0	0	0	1	0
Bar-tailed Godwit	0	0	0	0	0	0	0	0	0	0	0
Marbled Godwit	0	0	0	0	1	0	0	0	0	0	0
Ruddy Turnstone	0	0	5	0	0	0	0	4	0	0	0
Sanderling	0	0	38	14	1273	0	448	25	390	394	0
Least Sandpiper	0	0	0	0	0	0	0	0	0	1	0
Purple Sandpiper	0	0	0	48	0	0	57	54	5	0	0
Dunlin	0	0	8	109	3761	0	247	880	95	221	0
Common Snipe	0	0	1	0	5	0	0	2	6	2	0
American Woodcock	0	0	0	0	1	0	2	2	0	1	0
Pomarine Jaeger	0	0	0	0	0	0	0	0	0	0	0
Little Gull	0	0	0	0	0	0	0	0	0	0	0
Black-headed Gull	0	0	0	0	1	0	3	0	0	0	0
Bonaparte's Gull	0	0	46	345	133	0	36	115	88	34	0
Ring-billed Gull	106	0	328	569	175	495	3622	254	214	466	259
Herring Gull	376	76	872	3665	2072	2251	6429	5395	1630	1701	315
Iceland Gull	0	0	0	3	4	0	2	0	2	0	0
Thayer's Gull	0	0	0	0	0	0	0	0	0	0	0
Lesser Bla.-bac. Gull	0	0	0	0	1	0	0	0	0	0	0
Glaucous Gull	0	0	0	2	0	0	0	1	0	0	0
Great Bla.-bac. Gull	50	6	92	1036	1382	131	582	2227	360	470	19
Black-legged Kittiwake	0	0	0	16	320	0	0	0	32	40	0
Dovekie	0	0	0	2	0	0	0	0	0	0	0
Common Murre	0	0	0	0	0	0	0	0	0	0	0
Thick-billed Murre	0	0	0	0	0	0	0	0	0	0	0
Razorbill	0	0	0	36	481	0	0	9	8	80	0
Black Guillemot	0	0	1	28	0	0	0	6	0	0	0
Rock Dove	581	988	407	1643	129	502	4110	506	215	63	668
Mourning Dove	367	311	237	233	182	949	449	185	350	135	482
Barn Owl	0	1	0	0	0	0	0	0	4	0	0
Eastern Screech-Owl	0	0	16	10	1	14	32	14	2	3	2
Great Horned Owl	0	4	13	5	9	15	6	5	0	3	0

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Snowy Owl	0	0	0	0	0	0	1	0	0	0	0
Barred Owl	0	6	0	1	0	3	1	0	0	0	1
Long-eared Owl	0	1	0	0	0	0	0	0	0	0	0
Short-eared Owl	0	0	0	0	0	0	2	4	1	0	0
North. Saw-whet Owl	0	7	0	0	0	0	0	0	3	0	0
Belted Kingfisher	3	0	21	9	21	10	11	8	13	14	7
Red-bel. Woodpecker	3	0	3	3	7	31	10	5	24	1	11
Yellow-bel. Sapsucker	0	0	0	0	0	0	0	0	0	0	0
Downy Woodpecker	67	119	73	66	66	323	185	62	160	22	175
Hairy Woodpecker	11	39	9	7	10	86	19	3	20	4	21
Northern Flicker	8	1	44	15	46	10	30	37	74	24	31
Pileated Woodpecker	0	7	0	4	0	3	0	0	0	0	3
Eastern Phoebe	0	0	1	0	1	1	0	0	0	0	0
Horned Lark	0	6	6	79	6	0	27	12	3	2	0
Tree Swallow	0	0	0	0	0	0	0	0	13	0	0
Blue Jay	340	1251	168	217	175	1531	418	371	285	47	709
American Crow	2493	397	2355	774	442	2962	5638	930	1520	825	1602
Fish Crow	3	0	0	0	0	1	16	0	0	0	0
Common Raven	0	12	0	0	0	0	0	0	0	0	0
Black-cap. Chickadee	375	1913	1104	686	1237	2425	1220	658	950	790	1237
Tufted Titmouse	152	190	200	169	126	1164	279	198	0	50	593
Red-br. Nuthatch	11	80	9	6	14	80	7	5	31	6	12
White-br. Nuthatch	72	183	71	68	68	540	198	87	100	27	285
Brown Creeper	4	16	9	7	1	38	5	4	8	1	17
Carolina Wren	3	0	156	3	80	40	13	43	94	33	34
Winter Wren	0	0	12	0	1	3	3	0	5	5	2
Sedge Wren	0	0	0	1	0	0	0	0	0	0	0
Marsh Wren	0	0	1	0	2	0	1	0	0	1	0
Golden-cr. Kinglet	12	38	118	19	55	39	3	28	94	20	13
Ruby-crowned Kinglet	0	0	4	0	1	0	1	0	2	0	0
Eastern Bluebird	0	0	4	6	3	49	0	18	28	6	44
Hermit Thrush	0	0	24	0	26	2	2	2	7	2	0
American Robin	55	41	225	107	381	125	5204	627	95	195	330
Gray Catbird	0	0	10	1	9	0	1	1	13	9	0
Northern Mockingbird	32	9	71	68	78	160	194	63	73	33	59
Brown Thrasher	0	0	0	0	3	0	0	0	1	1	0
American Pipit	0	0	0	0	0	0	0	3	4	0	0
Bohemian Waxwing	0	0	0	0	0	0	0	0	0	0	0
Cedar Waxwing	58	929	13	85	165	120	3	56	82	295	96
Northern Shrike	0	2	0	0	1	2	0	1	2	0	0
European Starling	2153	2075	1486	12704	551	5431	103450	1056	1500	1051	2475
White-eyed Vireo	0	0	0	0	0	0	0	0	0	0	0
Orange-cro. Warbler	0	0	0	0	0	0	1	0	0	1	0
Yellow-rumped Warbler	0	0	172	134	414	0	47	206	970	209	0
Hermit Warbler	0	0	0	0	0	0	0	0	1	0	0
Pine Warbler	0	0	2	1	1	1	0	0	0	0	0
Palm Warbler	0	0	13	0	5	0	4	1	21	0	0
Black-and-white Warbler	0	0	0	0	0	0	1	0	0	0	0
Common Yellowthroat	0	0	3	0	0	0	0	0	2	0	0
Yellow-breasted Chat	0	0	2	0	7	0	0	0	0	0	0
Northern Cardinal	43	45	334	98	322	404	216	134	210	180	130
Dickcissel	0	0	0	0	0	1	0	1	0	0	0
Eastern Towhee	0	0	10	0	1	0	0	0	8	2	0

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species	And.	Athol	B. B.	C. Ann	C. Cod	Conc.	Gr. Bos.	Marsh.	M. V.	Mid-C.	Millis
Amer. Tree Sparrow	99	169	76	134	46	427	309	182	61	35	184
Chipping Sparrow	1	0	2	0	0	0	0	0	3	0	0
Field Sparrow	0	0	81	0	13	6	1	14	65	1	8
Vesper Sparrow	0	0	4	0	0	0	0	0	0	0	0
Lark Sparrow	0	0	0	0	0	0	0	0	0	0	0
Savannah Sparrow	0	0	81	0	12	3	11	15	14	24	0
"Ipswich" Sparrow	0	0	0	0	2	0	0	0	2	10	0
Sharp-tailed Sparrow sp.	0	0	0	0	3	0	0	0	0	2	0
Seaside Sparrow	0	0	0	0	0	0	0	0	0	0	0
Fox Sparrow	0	0	1	0	3	2	0	0	6	0	4
Song Sparrow	12	6	455	74	265	170	235	124	240	138	64
Lincoln's Sparrow	0	0	0	0	1	0	0	0	0	0	0
Swamp Sparrow	0	0	42	4	63	11	13	24	18	18	2
White-thr. Sparrow	2	7	306	23	245	134	174	93	330	204	36
White-cr. Sparrow	2	0	16	0	0	0	0	0	0	0	0
Dark-eyed Junco	176	332	306	122	29	1152	920	249	143	33	601
"Oregon" Junco	0	0	1	0	0	0	0	0	0	0	0
Lapland Longspur	0	0	0	0	0	0	0	0	0	0	0
Snow Bunting	0	20	0	53	68	0	31	127	15	22	0
Red-winged Blackbird	0	0	7	0	22	0	5	61	20	118	1
Eastern Meadowlark	0	0	0	0	14	0	0	20	58	20	0
Rusty Blackbird	0	0	0	0	1	46	0	18	0	0	0
Common Grackle	1	0	2	2	0	6	14	1	2	0	0
Br.-headed Cowbird	0	1	2	0	0	4	60	0	0	0	0
Baltimore Oriole	0	0	0	0	1	0	2	0	1	0	0
Pine Grosbeak	0	57	0	0	0	0	0	0	0	0	0
Purple Finch	6	0	0	3	0	11	0	1	0	0	4
House Finch	59	181	225	132	392	625	507	244	175	197	310
Red Crossbill	0	0	0	0	0	0	0	0	17	0	0
White-winged Crossbill	0	0	0	0	0	11	8	0	17	7	0
Common Redpoll	3	343	6	98	165	5	5	0	0	0	3
Pine Siskin	0	73	1	0	0	7	0	0	0	0	0
American Goldfinch	375	314	388	193	582	1212	474	238	120	94	647
Evening Grosbeak	0	426	0	0	0	0	0	0	0	0	0
House Sparrow	362	532	634	1326	563	1313	2073	718	470	408	1026
Number of species	54	60	112	91	123	82	114	106	125	110	62
Total birds	11239	11746	22506	30642	34756	28414	152748	25267	49578	20509	15768

And. = Andover CBC December 27, 1997
 Athol = Athol CBC December 20, 1997
 B. B. = Buzzards Bay CBC December 20, 1997
 C. Ann = Cape Ann CBC December 21, 1997
 C. Cod = Cape Cod CBC December 21, 1997
 Conc. = Concord CBC December 27, 1997
 Gr. Bos. = Greater Boston CBC December 21, 1997
 Marsh. = Marshfield CBC December 28, 1997
 M. V. = Martha's Vineyard CBC December 28, 1997
 Mid-C. = Mid-Cape Cod CBC December 30, 1997
 Millis = Millis CBC December 20, 1997

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species	Nant.	N.B.	Nbpt.	Ply.	Quab.	Quin.	Stell.	Sturb.Tau/Mb.	Truro	Uxbr.	Worc.	Nwp,RI	
RTLO	108	2	5	16	0	4	11	0	0	17	0	0	59
COLO	136	17	58	113	10	9	94	0	0	20	0	5	76
AR/PALO	0	0	0	0	0	1	0	0	0	0	0	0	0
PBGR	13	0	0	2	0	0	1	0	1	0	0	0	2
HOGR	30	39	41	57	195	34	4	0	0	8	0	0	377
RNGR	63	0	5	89	1	49	28	0	0	2	0	0	16
EAGR	0	0	0	0	0	0	0	0	0	0	0	0	0
NOGA	41	0	5	4	0	0	620	0	0	1028	0	0	0
GRCO	66	16	13	29	1	83	44	0	0	43	0	0	359
DCCO	1	2	1	8	0	0	0	0	1	0	0	0	1
AMBI	1	0	1	0	0	0	0	0	0	0	0	0	0
GBHE	37	18	7	13	0	10	3	3	5	9	4	5	36
BCNH	8	0	0	0	0	1	0	0	0	0	0	0	0
MUSW	12	85	13	120	0	27	0	0	45	0	0	7	157
SNGO	7	0	7	3	0	0	0	0	0	0	0	0	0
BLGO	0	0	0	0	0	0	0	0	0	0	0	0	0
BRAN	312	54	2	152	0	566	0	0	0	0	0	0	1
CAGO	818	796	3628	1124	0	1658	2	1840	3080	52	765	749	5695
WODU	0	0	0	0	0	0	0	3	0	2	5	1	2
GWTE	9	12	0	2	0	0	0	0	1	0	2	1	54
ABDU	485	523	3555	1006	79	912	310	145	333	205	228	140	886
MALL	1064	333	1017	462	96	614	9	1259	552	34	589	1641	864
NOPI	6	0	17	0	0	3	0	0	0	0	3	0	18
NSHO	1	0	0	0	0	0	0	0	0	0	0	0	0
GADW	4	26	13	16	0	8	0	0	2	0	0	0	34
EUWI	0	1	1	0	0	0	0	0	0	0	0	0	0
AMWI	21	0	0	37	0	1	0	0	17	0	0	1	50
CANV	169	0	0	0	0	5	0	0	103	0	0	0	265
REDH	1	0	0	0	0	0	0	0	0	0	0	0	0
RNDU	79	0	1	45	0	0	0	0	3	0	1	47	0
TUDU	0	0	0	1	0	0	0	0	0	0	0	1	0
GRSC	767	22	3	45	1	246	1	0	3	0	0	8	796
LESC	34	141	0	0	0	0	0	0	0	0	0	0	22
COEI	11694	453	1055	2473	0	5425	952	0	0	91	0	0	1612
KIEI	1	0	2	1	0	0	0	0	0	0	0	0	0
HADU	18	0	0	0	0	0	0	0	0	0	0	0	112
OLDS	89046	42	193	141	0	191	13	0	0	15	0	0	0
BLSC	1404	1	11	69	0	78	3	0	0	8	0	1	234
SUSC	111	21	2	532	0	20	1	0	0	0	0	0	54
WWSC	814	62	200	647	0	580	1120	0	0	192	0	0	107
COGO	1310	559	349	317	35	350	62	2	229	132	0	97	786
BAGO	3	1	3	0	0	1	1	0	0	0	0	0	1
BUFF	1380	500	265	222	0	471	75	1	89	42	0	0	456
HOME	47	0	11	129	17	27	0	27	30	6	14	88	54
COME	40	13	57	233	539	29	24	10	480	23	38	169	482
RBME	1114	151	405	415	0	406	2480	0	19	88	5	3	608
RUDU	8	0	0	14	0	1	0	1	9	0	0	9	283
BLVU	0	0	0	0	0	0	0	0	0	0	0	0	0
TUVU	0	8	2	0	0	1	0	0	0	0	0	0	35
BAEA	0	0	5	1	28	0	0	0	1	0	0	2	0
NOHA	30	1	9	3	0	1	3	0	2	9	0	0	14
SSHA	11	4	9	4	7	3	2	5	3	4	3	6	17
COHA	7	2	5	2	4	4	1	7	3	1	1	7	9

98th CHRISTMAS BIRD COUNT, December 19, 1997-January 4, 1998

species	Nant.	N.B.	Nbpt.	Ply.	Quab.	Quin.	Stell.	Sturb.Tau/Mb.	Truro	Uxbr.	Worc.	Nwp,RI	
NOGO	0	0	1	0	0	0	0	1	0	1	1	0	
RSHA	0	0	0	0	0	0	0	0	1	0	0	1	
RTHA	30	1	85	15	22	13	1	26	16	8	35	35	26
RLHA	0	0	0	0	0	0	0	0	1	0	0	0	0
GOEA	0	0	0	0	2	0	0	0	0	0	0	0	0
AMKE	1	1	5	3	0	1	0	1	0	1	1	0	12
MERL	5	0	1	1	0	0	0	0	1	0	0	1	1
PEFA	1	1	1	1	0	0	0	0	0	0	0	0	1
RIPH	21	0	13	1	2	2	0	7	0	0	3	0	2
RUGR	0	0	0	3	29	1	0	10	0	0	4	5	0
WITU	0	0	14	0	35	0	0	122	5	0	133	8	0
NOBO	0	0	0	0	0	0	0	0	0	0	0	0	0
CLRA	0	0	0	0	0	0	0	0	0	0	0	0	0
VIRA	7	0	0	1	0	0	0	0	0	1	0	0	3
SORA	0	0	0	0	0	0	0	0	0	0	0	0	0
AMCO	107	14	0	30	0	2	0	0	26	0	1	8	98
AMOY	0	0	0	0	0	0	0	0	0	0	0	0	0
BBPL	4	3	0	2	0	0	4	0	0	0	0	0	0
KILL	1	1	1	2	0	0	0	0	3	0	0	0	12
GRYE	0	0	0	0	0	0	0	0	1	0	0	0	0
LEYE	0	0	0	0	0	0	0	0	0	0	0	0	0
WHIM	0	0	0	0	0	0	0	0	0	0	0	0	0
BRTG	0	0	0	1	0	0	0	0	0	0	0	0	0
MAGO	0	0	0	0	0	0	0	0	0	0	0	0	0
RUTU	15	0	0	0	0	0	0	0	0	0	0	0	24
SAND	595	38	16	54	0	0	40	0	0	25	0	0	139
LESA	0	0	0	0	0	0	0	0	0	0	0	0	0
PUSA	2	10	47	20	0	30	0	0	0	0	0	0	321
DUNL	12	92	31	16	0	0	25	0	0	26	0	0	346
COSN	2	0	2	1	0	0	0	0	0	0	1	1	29
AMWO	1	0	0	2	0	0	0	0	0	0	1	0	1
POJA	0	0	0	0	0	0	1	0	0	0	0	0	0
LIGU	7	0	0	0	0	0	0	0	0	0	0	0	1
BHGU	2	0	0	1	0	0	0	0	0	0	0	0	0
BOGU	9119	3	5	68	0	81	1	0	0	4	0	0	162
RBGU	45	1220	437	394	139	1153	58	311	395	59	114	1227	1337
HEGU	7981	375	2864	1081	29	3019	800	515	2338	838	74	493	1004
ICGU	90	0	4	1	0	1	24	1	1	2	0	0	0
THGU	1	0	0	0	0	0	0	0	0	0	0	0	0
LBBG	8	0	0	0	0	0	1	0	1	0	0	0	0
GLGU	1	0	1	0	0	0	0	0	0	0	0	1	0
GBBG	1804	66	447	325	4	346	980	46	555	425	62	78	260
BLKI	271	0	1	3	0	0	3013	0	0	849	0	0	0
DOVE	0	0	0	0	0	0	1	0	0	2	0	0	0
COMU	0	0	0	0	0	0	2	0	0	0	0	0	0
TBMU	0	0	0	0	0	0	0	0	0	8	0	0	0
RAZO	66	0	10	2	0	1	335	0	0	4162	0	0	2
BLGU	3	0	1	0	0	2	4	0	0	11	0	0	0
RODO	327	837	680	160	149	1067	72	1236	280	67	810	860	409
MODO	535	160	631	176	215	123	5	523	629	29	211	386	485
BNOW	4	0	0	0	0	0	0	0	0	0	0	0	0
ESOW	0	0	5	1	0	13	0	4	16	2	50	4	7
GHOW	0	2	8	1	8	8	0	9	14	1	24	2	5

98th CHRISTMAS BIRD COUNT, December 19, 1997-January 4, 1998

species	Nant.	N.B.	Nbpt.	Ply.	Quab.	Quin.	Stell.	Sturb.	Tau/Mb.	Truro	Uxbr.	Worc.	Nwp,RI
SNOW	1	0	3	0	0	0	0	0	0	0	0	0	0
BDOW	0	0	1	0	6	0	0	3	1	0	2	0	0
LEOW	0	0	0	0	0	0	0	0	1	0	0	0	0
SEOW	1	0	0	0	0	0	0	0	0	0	0	0	0
NSWO	0	0	0	0	15	0	0	4	1	0	1	0	0
BEKI	4	2	6	7	3	6	0	7	4	3	1	10	7
RBWO	0	3	13	1	2	0	0	10	9	0	13	5	10
YBSA	0	0	0	0	1	0	0	0	0	0	0	0	1
DOWO	18	25	156	48	125	73	6	213	77	18	124	134	55
HAWO	2	3	29	3	48	4	0	42	10	4	26	24	4
NOFL	150	20	27	23	8	27	3	24	47	15	19	11	43
PIWO	0	0	1	0	15	0	0	2	0	0	0	2	0
EAPH	0	0	0	0	0	0	0	0	0	0	0	0	0
HOLA	10	0	362	65	8	0	0	46	0	18	1	33	87
TRSW	0	0	0	0	0	0	0	0	0	0	0	0	29
BLJA	88	63	854	153	876	171	5	1528	883	70	1198	640	161
AMCR	695	842	1335	267	247	781	28	947	418	155	674	1682	1685
FICR	0	0	0	1	0	11	0	0	0	0	0	0	0
CORA	0	0	1	0	24	0	0	2	0	0	0	0	0
BCCH	408	160	1716	708	1356	558	52	1914	642	445	1431	899	484
TUTI	0	46	438	181	296	160	6	557	297	30	651	239	74
RBNU	88	3	48	6	56	4	0	59	12	2	20	17	4
WBNU	17	20	277	67	261	69	3	367	76	15	254	179	41
BRCR	0	3	14	7	29	6	0	43	5	4	14	13	1
CAWR	55	16	4	53	0	12	2	5	45	11	12	5	90
WIWR	1	0	0	8	4	1	0	1	0	0	1	0	3
SEWR	0	0	0	0	0	0	0	0	0	0	0	0	0
MAWR	8	0	1	0	0	0	1	0	0	0	0	0	5
GCKI	42	20	26	40	25	9	0	22	15	0	24	4	18
RCKI	3	0	2	0	0	3	0	0	0	1	0	0	3
EABL	0	6	13	11	17	20	0	50	33	0	87	0	0
HETH	2	0	0	11	0	3	0	1	0	5	1	0	4
AMRO	394	228	467	226	479	213	62	2375	315	588	625	201	1458
GRCA	5	2	0	3	1	0	2	1	0	2	0	0	18
NOMO	42	23	92	51	21	71	3	27	80	20	55	46	124
BRTH	0	0	0	0	0	0	0	0	0	0	0	0	0
AMPI	0	0	0	0	0	0	0	0	0	0	0	0	2
BOWA	0	0	0	0	0	0	3	1	0	0	0	0	0
CWAX	117	54	308	154	550	7	0	1104	83	145	375	1272	107
NSHR	0	0	1	0	1	0	0	0	0	1	0	0	0
EUST	2705	1731	9117	1032	649	41726	110	7472	1987	235	2639	4429	15817
WEVI	0	0	0	0	0	0	0	0	1	0	0	0	0
OCWA	1	0	0	0	0	0	0	0	0	0	0	0	0
YRWA	3245	52	64	369	1	133	147	0	57	129	7	2	492
HEWA	0	0	0	0	0	0	0	0	0	0	0	0	0
PIWA	1	1	0	18	0	0	0	0	1	0	0	0	1
PAWA	15	0	0	0	0	1	0	0	0	1	0	0	1
BAWW	0	0	0	0	0	0	0	0	0	0	0	0	0
COYE	0	0	0	0	0	0	0	1	0	0	0	0	6
YBCH	0	1	1	0	0	0	1	0	0	0	0	0	0
NOCA	146	97	210	195	42	90	11	113	187	43	139	72	191
DICK	0	0	0	0	0	0	0	0	0	0	0	0	0
EATO	14	2	0	1	0	1	1	1	1	2	0	1	4

98th CHRISTMAS BIRD COUNT, December 19, 1997-January 4, 1998

species	Nant.	N.B.	Nbpt.	Ply.	Quab.	Quin.	Stell.	Sturb.Tau/Mb.	Truro	Uxbr.	Worc.	Nwp,RI	
ATSP	3	6	495	110	293	109	13	398	284	58	148	221	132
CHSP	0	6	0	1	0	0	0	0	0	0	1	0	0
FISP	5	2	4	13	2	8	0	1	90	14	28	9	17
VESP	1	0	0	0	0	0	0	0	0	0	0	0	0
LASP	0	0	0	0	0	0	0	0	0	1	0	0	0
SASP	26	1	10	2	0	8	0	0	4	0	0	0	20
IPSP	1	0	2	1	0	0	0	0	0	0	0	0	1
STSP sp	0	0	0	0	0	0	0	0	0	0	0	0	1
SESP	0	0	1	0	0	0	0	0	0	0	0	0	0
FOSP	1	2	0	1	0	0	0	0	0	0	0	0	0
SOSP	276	42	112	192	36	133	11	119	145	38	106	65	335
LISP	0	0	0	0	0	0	0	0	0	0	0	0	0
SWSP	24	0	4	27	1	4	6	6	31	1	6	0	53
WTSP	90	80	65	214	17	73	21	89	112	20	56	32	375
WCSP	1	0	0	0	0	0	0	0	0	0	0	0	22
DEJU	130	104	618	218	386	128	11	1010	671	15	691	510	142
ORJU	0	0	0	0	0	0	0	0	0	0	0	0	0
LALO	0	0	21	0	0	0	0	0	0	0	0	0	0
SNBU	18	0	56	52	2	6	70	4	0	50	0	1	88
RWBL	163	0	10	4	0	0	0	19	13	1	0	1	23
EAME	10	0	1	0	0	2	0	0	1	0	1	0	1
RUBL	0	0	0	0	0	0	0	0	1	0	0	0	1
COGR	16	3	0	5	0	0	0	2	0	0	0	1	36
BHCO	9	1	0	1	0	0	0	1	5	0	4	3	498
BAOR	0	1	0	0	0	0	0	0	0	0	0	0	0
PIGR	0	0	0	0	1	0	0	0	0	0	0	0	0
PUFI	1	0	11	3	0	0	0	10	1	0	1	2	16
HOFI	135	49	329	164	91	145	5	572	308	48	319	309	268
RECR	6	0	1	0	19	0	0	3	0	0	0	1	0
WWCR	46	0	51	0	10	5	0	8	0	0	0	5	30
CORE	84	0	88	0	1357	22	0	22	0	42	97	105	4
PISI	4	0	0	1	66	0	3	47	0	0	3	0	0
AMGO	199	192	707	292	336	112	13	779	425	55	614	616	141
EVGR	0	0	0	0	47	0	0	3	0	0	4	25	0
HOSP	296	290	1574	451	464	650	5	1065	477	183	1071	878	526
# species	127	85	111	111	69	91	72	76	83	80	72	76	116
# birds	142226	10967	36034	16880	9941	63247	11836	27218	17151	11038	14901	18802	43232

Nant. = Nantucket CBC
 N. B. = New Bedford CBC
 Nbpt. = Newburyport CBC
 Ply. = Plymouth CBC
 Quab. = Quabbin CBC
 Quin. = Quincy CBC
 Sturb. = Sturbridge CBC
 Stell. = Stellwagen CBC
 Tau/Mb. = Taunton-Middleboro CBC
 Truro = Truro CBC
 Uxbr. = Uxbridge, MA/RI CBC
 Worc. = Worcester CBC
 Nwp,RI = Newport, RI/Westport, MA CBC

January 3, 1998
 December 20, 1997
 December 28, 1997
 December 29, 1997
 January 3, 1998
 December 20, 1997
 December 19, 1997
 December 20, 1997
 December 27, 1997
 December 29, 1997
 January 3, 1998
 December 20, 1997
 December 20, 1997