

## CHRISTMAS BIRD COUNT, 12/20/96-1/5/97

Compiled by Marjorie W. Rines and Robert H. Stymeist

The Ninety-seventh annual Christmas Bird Count (CBC), sponsored by the National Audubon Society, was held from December 20, 1996 to January 5, 1997. Eastern Massachusetts and a portion of Rhode Island contain twenty-five count areas (see map). Results from these counts are summarized in the following pages. A total of 185 species plus one subspecies, "Ipswich" Sparrow, were recorded. The Whooper Swans that have been present for some time in Essex County were found on the Newburyport CBC, but these are not currently recognized as "wild" species, so were not included. Three additional species were found during the CBC period, but were not found on the count day: a Common Moorhen and Pine Grosbeak on Nantucket and a Black-throated Blue Warbler on the Concord CBC. The Cape Cod CBC led the area counts were 120 species, followed closely by Nantucket with 119.

Unusual species reported included Least Bittern, Tundra Swan, Greater White-fronted Goose, Tufted Duck, Western Sandpiper, both Pomarine and Parasitic jaegers, Atlantic Puffin, Boreal Owl, Townsend's Solitaire, Varied Thrush, Clay-colored Sparrow and Bullock's Oriole. The highlight was, of course, the very cooperative Boreal Owl which was tallied by so many observers not participating in the Boston CBC.

The National Audubon Society and Partners in Flight have just published their first "watchlist," an annual documentation of birds in decline or in immediate danger. Several of the 90 species on this list were reported on this year's eastern Massachusetts CBCs: Sharp-tailed Sparrow, Red Knot, American Bittern, Short-eared Owl, Red-headed Woodpecker, Gray Catbird, Dickcissel, Clay-colored and Field sparrows, and Rusty Blackbird.

In the following tables, birds identified only by species type, such as "scaup species" have not been shown unless no identifiable form was noted, and the totals of individuals 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. They are as follows: **Louis 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 Sumner**, Quabbin; **Glenn d'Entremont and Patty O'Neill**, Quincy; **Simon Perkins**, Stellwagen; **Mark Lynch**, Sturbridge; **Steve Arena**, Taunton-Middleboro; **Richard Hildreth**, Uxbridge; **John Williams**, Westminster; **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), Central Berkshire (5), Concord (6), Greater Boston (7), Greenfield (8), Marshfield (9), Martha's Vineyard (10), Mid-Cape Cod (11), Millis (12), Nantucket (13), New Bedford (14), Newburyport (15), Northampton (16), Northern Berkshire (17), Plymouth (18), Quincy (19), Springfield (20), Taunton-Middleboro (21), Tuckermuck Island (22), Uxbridge, MA/RI (23), Westminster (24), Worcester (25), Newport County, RI/Westport, MA (26), Stellwagen Bank (27), Quabbin (28), Andover (29), and Sturbridge (30).

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species	And.	Athol	B. B.	C. Ann	C. Cod	Conc.	Gr. Bos.	Marsh.	M. V.	Mid-C.	Millis
Red-throated Loon	0	0	15	8	381	0	5	12	100	36	0
Common Loon	0	1	35	95	61	1	2	13	355	60	1
Pied-billed Grebe	0	0	16	1	24	0	2	1	0	7	0
Horned Grebe	0	0	119	57	9	0	52	2	44	69	0
Red-necked Grebe	0	0	3	17	5	0	17	9	6	67	0
Northern Gannet	0	0	0	77	5260	0	0	1	21	12	0
Great Cormorant	6	0	23	119	34	0	6	2	60	6	0
Double-cr. Cormorant	1	0	7	3	4	1	22	1	5	2	0
American Bittern	0	0	0	0	0	0	0	0	0	1	0
Least Bittern	0	0	0	0	0	0	0	0	0	0	0
Great Blue Heron	0	0	38	5	64	6	22	17	31	67	3
Black-cr. Night-Heron	0	0	0	0	0	0	1	0	5	0	0
Tundra Swan	0	0	0	0	0	0	0	0	0	0	0
Mute Swan	0	0	56	17	23	0	13	20	64	76	0
Gr. W.-fronted Goose	0	0	0	0	0	0	0	0	0	0	0
Snow Goose	0	0	0	0	0	0	1	0	0	0	0
Brant	0	0	238	2	1492	0	441	192	22	144	0
Canada Goose	1181	31	866	1161	1477	2527	2470	794	940	506	1156
Wood Duck	0	2	0	0	0	2	6	0	0	7	0
Green-winged Teal	0	0	1	0	12	0	101	4	4	25	0
American Black Duck	39	19	727	478	1815	77	886	1353	670	3575	75
Mallard	436	10	445	383	252	869	2407	381	600	438	677
Northern Pintail	0	0	3	0	0	2	2	7	7	19	0
Blue-winged Teal	0	0	0	0	0	0	0	0	1	0	0
Northern Shoveler	0	0	0	0	0	1	0	0	0	1	0
Gadwall	0	0	32	33	6	0	12	33	4	170	0
Eurasian Wigeon	0	0	0	0	2	0	0	0	1	3	0
American Wigeon	0	0	2	1	52	0	13	16	37	134	3
Canvasback	0	0	62	0	25	0	3	0	0	76	0
Redhead	0	0	3	0	0	0	0	0	1	0	0
Ring-necked Duck	0	0	25	0	112	0	42	8	24	82	14
Tufted Duck	0	0	0	0	0	0	0	0	0	0	0
Greater Scaup	0	0	1307	2	6	0	89	0	260	1	0
Lesser Scaup	0	0	3	0	4	0	2	0	2	3	16
Common Eider	0	0	4476	205	3284	0	1978	2278	750	1237	0
King Eider	0	0	0	1	0	0	0	0	0	0	0
Harlequin Duck	0	0	0	71	3	0	0	0	21	0	0
Oldsquaw	0	0	157	87	333	0	0	27	340	108	0
Black Scoter	0	0	15	22	121	0	0	5	285	20	0
Surf Scoter	0	0	236	50	18	0	7	10	65	41	0
White-winged Scoter	0	0	472	312	359	0	218	164	208	97	0
Common Goldeneye	8	0	392	216	256	34	190	117	940	183	1
Barrow's Goldeneye	0	0	1	2	0	0	1	0	2	1	0
Bufflehead	0	0	1396	553	1324	0	520	304	720	749	3
Hooded Merganser	6	0	248	1	67	20	161	12	102	59	40
Common Merganser	61	2	73	10	42	89	77	3	4	34	18
Red-br. Merganser	0	0	1076	309	2843	6	658	362	868	526	0
Ruddy Duck	0	0	34	0	66	92	131	0	0	0	4
Turkey Vulture	0	0	3	0	0	0	0	0	0	0	0
Bald Eagle	1	2	0	0	0	0	0	0	0	0	1
Northern Harrier	0	0	6	0	13	0	2	7	4	7	0
Sharp-shinned Hawk	2	0	6	3	8	8	7	6	4	8	5

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species	Nant.	N.B.	Nbpt.	Ply.	Quab.	Quin.	Stell.	Sturb.Tau/Mb.	Uxbr.	Wstrn.	Worc.	Nwp	
RTLO	171	2	11	10	0	8	17	0	0	0	0	30	
COLO	186	8	53	51	7	15	27	0	2	1	0	98	
PBGR	13	0	0	9	0	5	0	0	0	0	0	10	
HOGR	30	75	76	56	23	185	10	0	3	0	0	111	
RNGR	48	0	22	20	0	36	16	0	0	0	0	5	
NOGA	745	0	6	3	0	0	246	0	0	0	0	0	
GRCO	59	28	2	35	0	75	3	0	2	0	0	125	
DCCO	8	0	0	6	1	5	0	0	3	0	0	10	
AMBI	0	0	0	0	0	0	0	0	0	0	0	0	
LEBI	0	0	1	0	0	0	0	0	0	0	0	0	
GBHE	30	16	7	14	0	12	3	0	4	4	1	31	
BCNH	16	0	0	0	0	0	0	0	0	0	0	0	
TUSW	0	0	1	0	0	0	0	0	0	0	0	1	
MUSW	21	175	18	28	0	27	0	0	10	0	0	123	
GWFG	0	0	1	0	0	0	0	0	0	0	0	0	
SNGO	0	0	40	1	0	0	0	1	0	0	0	1	
BRAN	199	12	190	72	0	407	0	0	0	0	0	0	
CAGO	519	933	3827	1198	3	1379	6	572	1771	1671	74	533	4889
WODU	0	0	1	2	0	3	0	0	1	8	0	1	1
GWTE	9	8	12	0	0	1	0	0	3	0	0	1	37
ABDU	553	885	3503	881	28	1136	356	15	134	91	41	136	1126
MALL	613	313	927	297	219	390	3	463	452	418	287	933	769
NOPI	2	0	15	1	0	3	0	0	0	0	0	0	66
BWTE	0	0	0	0	0	0	0	0	0	0	0	0	1
NOSH	1	0	0	1	0	0	0	0	0	0	0	1	0
GADW	3	11	56	14	0	0	1	0	0	2	0	1	52
EUWI	0	0	0	1	0	1	0	0	1	0	0	0	0
AMWI	3	13	1	8	0	1	0	0	53	0	0	0	242
CANV	81	0	0	0	0	11	0	0	17	0	0	0	732
REDH	35	0	0	0	0	0	0	0	0	0	0	0	0
RNDU	21	0	1	11	4	3	0	0	10	0	0	1	0
TJDU	0	1	0	0	0	0	0	0	0	0	0	1	0
GRSC	622	47	5	18	0	86	8	0	5	1	0	17	2354
LESC	49	41	0	0	0	0	0	0	1	1	0	1	188
COEI	3625	3047	1713	1434	0	6028	606	0	0	0	0	0	394
KIEI	2	0	0	2	0	0	0	0	0	0	0	0	0
HADU	22	0	0	0	0	0	0	0	0	0	0	0	80
OLDS	148615	41	135	44	0	146	37	0	0	0	0	0	0
BLSC	286	0	15	6	0	11	1	0	0	0	0	0	80
SUSC	69	61	0	130	0	34	1	0	0	0	0	0	77
WWSC	428	148	386	233	0	379	323	0	0	0	0	0	87
COGO	1527	935	423	155	25	262	23	2	52	1	1	55	509
BAGO	3	0	0	0	1	0	0	0	0	0	0	0	0
BUFF	699	439	247	247	0	607	137	0	99	0	0	4	347
HOME	65	10	17	75	29	43	0	10	25	12	0	55	53
COME	17	0	91	393	259	57	3	463	56	131	5	52	108
RBME	767	134	166	662	0	506	385	0	6	0	0	0	345
RUDU	1	0	27	0	0	1	0	0	83	0	0	0	198
TUVU	0	0	0	0	0	0	0	0	0	0	0	0	8
BAEA	0	0	2	0	22	0	0	2	2	0	0	0	0
NOHA	25	2	5	0	0	1	2	0	0	0	0	0	11
SSHA	8	2	7	4	6	6	1	4	4	7	0	1	7

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Cooper's Hawk	0	3	3	2	4	6	3	1	3	1	0
Northern Goshawk	0	0	0	0	0	0	0	0	0	0	1
Red-shouldered Hawk	0	0	2	0	0	4	0	0	0	0	0
Red-tailed Hawk	23	6	23	22	17	77	81	22	27	7	60
Rough-legged Hawk	0	0	0	0	0	0	0	0	0	0	0
American Kestrel	0	0	1	1	1	4	10	1	0	0	1
Merlin	0	0	0	0	3	0	3	0	2	1	1
Peregrine Falcon	1	0	0	0	2	0	6	2	2	0	0
Ring-necked Pheasant	2	1	1	1	1	6	13	0	4	0	8
Ruffed Grouse	0	1	2	0	0	8	0	4	0	0	7
Wild Turkey	0	199	0	0	0	0	1	0	22	0	12
Northern Bobwhite	0	0	12	0	2	0	0	0	1	7	0
Virginia Rail	0	0	1	1	5	1	0	1	3	6	0
American Coot	0	0	144	6	110	1	76	0	5	20	6
Black-bellied Plover	0	0	7	2	16	0	0	4	38	0	0
Killdeer	0	0	0	3	7	0	0	1	3	0	0
American Oystercatcher	0	0	0	0	0	0	0	0	1	0	0
Greater Yellowlegs	0	0	1	1	2	0	6	0	2	0	0
Ruddy Turnstone	0	0	0	0	0	0	0	0	0	0	0
Red Knot	0	0	0	0	0	0	0	0	0	0	0
Sanderling	0	0	27	2	671	0	24	0	264	99	0
Western Sandpiper	0	0	0	0	1	0	0	0	0	0	0
Purple Sandpiper	0	0	0	5	0	0	0	68	2	0	0
Dunlin	0	0	10	30	1624	0	0	270	29	125	0
Common Snipe	0	0	2	0	1	0	0	1	0	0	0
American Woodcock	0	0	1	0	0	0	0	2	2	0	1
Pomarine Jaeger	0	0	0	0	1	0	0	0	0	0	0
Parasitic 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	0	0	2	0	0	0	0
Bonaparte's Gull	0	0	73	183	155	0	35	21	11	23	0
Ring-billed Gull	977	1	199	390	198	228	4590	253	186	434	189
Herring Gull	1282	371	1591	6595	4414	4996	6133	4152	1490	836	111
Iceland Gull	0	0	0	4	7	0	0	0	0	0	0
Lesser Bla.-bac. Gull	0	0	0	0	1	0	1	0	0	1	0
Glaucous Gull	0	0	0	0	2	0	1	0	0	0	0
Great Bla.-bac. Gull	61	73	212	1818	893	450	644	1241	335	299	9
Black-legged Kittiwake	0	0	0	29	2335	0	0	0	14	3	0
Dovekie	0	0	0	2	9	0	0	0	1	0	0
Common Murre	0	0	0	0	0	0	0	0	0	0	0
Thick-billed Murre	0	0	0	0	1	0	0	0	0	0	0
Razorbill	0	0	1	59	391	0	0	5	32	5	0
Black Guillemot	0	0	0	27	0	0	0	0	0	0	0
Atlantic Puffin	0	0	0	0	1	0	0	0	0	0	0
Rock Dove	1265	909	384	632	111	853	3547	349	262	206	507
Mourning Dove	292	313	454	327	215	2237	494	119	480	206	520
Barn Owl	0	0	0	0	0	0	0	0	3	0	0
Eastern Screech-Owl	1	1	1	17	2	20	28	18	14	9	5
Great Horned Owl	1	2	1	7	6	27	4	3	0	3	8
Snowy Owl	0	0	0	1	1	0	4	2	0	0	0
Barred Owl	0	1	0	0	0	7	1	0	0	0	1
Long-eared Owl	0	0	0	0	0	0	0	1	0	0	0

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species	Nant.	N.B.	Nbpt.	Ply.	Quab.	Quin.	Stell.	Sturb.Tau/Mb.	Uxbr.	Wstm.	Worc.	Nwp
COHA	2	1	3	0	0	4	0	4	4	5	0	7
NOGO	0	0	0	0	0	0	0	0	0	2	0	1
RSHA	0	1	0	1	0	0	0	1	2	0	0	2
RTHA	23	4	47	7	19	18	1	30	19	37	5	49
RLHA	2	0	0	0	0	0	0	0	0	0	0	0
AMKE	0	0	4	1	0	0	0	0	2	1	0	9
MERL	5	1	2	1	0	1	0	0	0	0	0	2
PEFA	2	0	2	1	0	1	0	0	0	1	0	1
RNPH	21	0	4	1	4	1	0	3	0	8	3	1
RUGR	0	0	3	0	38	5	0	4	1	9	1	0
WITU	0	0	5	0	97	1	0	19	0	0	7	61
NOBO	0	0	0	1	0	0	0	0	0	0	0	0
VIRA	2	0	0	0	0	0	0	0	0	0	0	7
AMCO	110	20	6	13	1	5	0	0	35	0	0	670
BBPL	13	5	0	0	0	2	0	0	0	0	0	0
KILL	0	0	0	1	0	0	0	0	0	0	0	4
AMOY	0	0	0	0	0	0	0	0	0	0	0	0
GRYE	0	0	0	0	0	0	0	0	1	0	0	1
RUTU	3	32	0	0	0	0	0	0	0	0	0	24
REKN	0	0	0	0	0	0	1	0	0	0	0	0
SAND	464	0	8	1	0	42	0	0	0	0	0	98
WESA	0	0	0	0	0	0	0	0	0	0	0	0
PUSA	29	14	42	22	0	45	0	0	0	0	0	124
DUNL	7	170	80	43	0	0	400	0	0	0	0	125
COSN	0	0	0	0	0	0	0	0	1	2	1	4
AMWO	1	1	1	0	0	0	0	1	2	0	0	1
POJA	0	0	0	0	0	0	5	0	0	0	0	0
PAJA	0	0	0	0	0	0	1	0	0	0	0	0
LIGU	2	0	0	0	0	0	0	0	0	0	0	0
BHGU	2	0	1	1	0	0	0	0	0	0	0	0
BOGU	320	17	69	40	0	469	5	0	0	0	0	360
RBGU	25	1616	976	716	31	1310	56	353	345	117	23	895
HEGU	4441	376	2243	995	82	6645	852	513	2993	275	2010	168
ICGU	45	0	4	0	0	0	16	0	0	0	3	0
LBBG	2	0	0	0	0	0	0	0	0	0	0	1
GLGU	2	0	0	0	0	0	1	0	0	0	0	0
GBBG	1790	77	445	250	16	674	788	93	446	40	327	43
BLKI	158	0	11	0	0	0	1335	0	0	0	0	0
DOVE	0	0	0	0	0	0	0	0	0	0	0	0
COMU	0	0	0	0	0	0	6	0	0	0	0	0
TBMU	0	0	0	0	0	0	1	0	0	0	0	0
RAZO	134	0	1	2	0	3	407	0	0	0	0	0
BLGU	4	0	0	0	0	2	2	0	0	0	0	0
ATPU	0	0	0	0	0	0	0	0	0	0	0	0
RODO	221	427	649	183	185	800	384	1178	451	1005	673	678
MOD0	402	117	733	150	421	157	3	415	869	868	230	234
BROW	6	0	0	0	0	0	0	0	0	0	0	0
EASO	0	1	9	4	0	13	0	2	4	27	1	6
GHOW	0	0	6	0	7	4	1	2	7	32	3	0
SNOW	3	0	0	0	0	1	1	0	0	0	0	0
BAOW	0	0	0	0	6	0	0	2	0	2	0	0
LEOW	1	0	0	0	0	0	0	0	0	0	0	0

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species	And.	Athol	B. B.	C. Ann	C. Cod	Conc.	Gr. Bos.	Marsh.	M. V.	Mid-C.	Millis
Short-eared Owl	0	0	0	0	0	0	0	0	0	0	0
Boreal Owl	0	0	0	0	0	0	1	0	0	0	0
North. Saw-whet Owl	0	3	0	0	0	0	0	0	0	0	0
Belted Kingfisher	1	1	12	3	8	12	3	4	14	24	2
Red-hea. Woodpecker	0	0	0	1	1	0	0	0	0	0	3
Red-bel. Woodpecker	3	1	4	4	6	24	9	1	30	4	9
Yellow-bel. Sapsucker	0	0	0	0	0	0	0	1	2	0	1
Downy Woodpecker	72	46	64	59	71	429	210	52	69	62	180
Hairy Woodpecker	19	26	12	5	13	81	7	8	12	9	29
Northern Flicker	3	0	19	14	66	18	37	18	42	30	22
Pileated Woodpecker	0	3	0	3	0	8	0	0	0	0	1
Eastern Phoebe	0	1	2	0	1	0	0	0	2	0	0
Horned Lark	0	0	28	118	121	7	19	22	3	7	0
Tree Swallow	0	0	0	2	0	0	0	0	0	0	0
Blue Jay	278	730	372	258	367	1616	461	68	336	199	702
American Crow	7616	265	633	848	634	1708	5775	541	1010	526	1112
Fish Crow	13	0	0	0	0	0	69	0	0	0	1
Common Raven	0	18	0	0	0	0	0	0	0	0	0
Black-cap. Chickadee	327	1369	974	674	1133	2598	996	477	1200	1176	949
Tufted Titmouse	128	182	235	151	139	938	271	187	0	125	408
Red-br. Nuthatch	10	49	18	15	15	27	13	11	7	2	26
White-br. Nuthatch	51	118	75	91	66	499	164	42	125	57	287
Brown Creeper	6	25	2	10	3	40	20	4	8	8	29
Carolina Wren	1	0	111	7	75	14	0	27	87	95	14
House Wren	0	0	0	0	0	0	1	0	1	0	0
Winter Wren	0	1	6	2	5	1	1	1	3	7	2
Marsh Wren	0	0	2	0	0	0	0	0	0	3	0
Golden-cr. Kinglet	16	173	36	20	12	62	21	30	11	10	14
Ruby-crowned Kinglet	0	0	2	1	0	0	0	1	0	2	0
Eastern Bluebird	0	0	0	6	0	97	0	5	26	17	63
Townsend's Solitaire	0	0	0	0	0	0	0	0	0	1	0
Hermit Thrush	1	0	23	4	18	1	6	2	0	9	0
American Robin	63	0	413	817	936	645	2508	151	123	1138	67
Varied Thrush	0	0	0	0	0	0	0	0	0	0	1
Gray Catbird	0	0	15	3	8	0	2	1	9	9	2
Northern Mockingbird	28	9	100	65	76	170	204	41	44	82	56
Brown Thrasher	0	0	0	0	1	0	0	0	0	0	0
American Pipit	0	0	0	0	0	0	0	0	1	0	0
Cedar Waxwing	91	56	189	86	286	640	17	56	48	32	149
Northern Shrike	0	5	0	0	1	3	0	0	0	2	0
European Starling	3139	1573	1545	3981	1587	5515	99776	6833	1920	1195	4170
Orange-cro. Warbler	0	0	0	0	0	0	1	0	0	0	0
Yellow-rumped Warbler	0	0	113	163	583	1	31	91	170	143	1
Pine Warbler	0	0	0	1	2	0	0	0	0	0	0
Palm Warbler	0	0	11	1	2	0	0	0	0	2	0
Common Yellowthroat	0	0	0	1	0	0	1	0	3	2	0
Yellow-breasted Chat	0	0	2	0	3	0	0	0	1	2	0
Northern Cardinal	43	34	366	121	328	413	260	99	191	356	201
Dickcissel	0	1	0	1	0	0	1	0	0	0	0
Eastern Towhee	0	0	18	1	6	2	1	0	12	3	4
Amer. Tree Sparrow	62	106	102	171	12	485	453	61	12	14	214
Chipping Sparrow	1	0	0	0	0	0	0	2	0	0	0

## 97th CHRISTMAS BIRD COUNT, December 20, 1996-January 5, 1997

species	Nant.	N.B.	Nbpt.	Ply.	Quab.	Quin.	Stell.	Sturb.Tau/Mb.	Uxbr.	Wstrn.	Worc.	Nwp
SEOW	1	0	0	0	0	0	0	0	0	0	0	0
BOOW	0	0	0	0	0	0	0	0	0	0	0	0
NSWO	3	0	0	0	7	0	0	0	1	0	2	0
BEKI	0	3	6	6	6	5	0	3	2	9	0	5
RHWO	0	0	0	0	0	0	0	0	0	0	0	0
RBWO	4	2	11	4	2	2	0	9	9	10	1	10
YBSA	0	0	0	0	0	0	0	1	0	0	0	0
DOWO	14	16	166	30	145	49	4	114	71	172	98	103
HAWO	1	1	28	2	38	2	0	15	8	24	23	14
NOFL	111	10	40	27	4	26	1	6	40	34	7	6
PIWO	0	0	2	0	29	0	0	1	0	0	2	1
EAPH	0	0	0	1	0	0	0	0	0	0	0	0
TRSW	0	0	0	0	0	0	0	0	0	0	0	0
HOLA	9	0	204	14	0	4	10	103	0	20	0	7
BLJA	173	58	617	218	500	154	40	669	700	635	911	605
AMCR	503	171	1246	376	310	976	60	897	519	711	267	2065
FICR	0	0	0	3	0	33	0	0	0	0	0	0
CORA	0	0	0	0	25	0	0	6	0	0	0	1
BCCH	287	92	1756	653	1690	419	85	1244	680	1311	1090	730
TUTI	0	54	321	184	255	92	1	364	257	597	128	195
RBNU	11	0	25	11	134	3	0	22	2	11	14	17
WBNU	1	58	269	21	259	50	0	157	75	264	115	169
BRCR	1	1	14	1	82	2	0	27	14	22	20	35
CAWR	51	7	0	57	0	6	3	0	19	18	0	3
HOWR	0	0	0	0	0	0	1	0	0	0	0	0
WIWR	2	0	2	3	3	3	0	0	2	0	1	1
MAWR	7	0	3	0	0	0	1	0	1	0	0	0
GCKI	4	4	41	19	312	0	0	50	24	33	43	40
RCKI	1	0	0	5	3	0	0	1	0	2	0	0
EABL	0	3	8	4	1	0	0	16	49	31	0	6
TOSO	0	0	0	0	0	0	0	0	0	0	0	0
HETH	2	2	0	13	0	1	1	0	0	1	0	0
AMRO	933	93	797	183	204	347	96	30	152	94	53	76
VATH	0	0	0	0	0	0	0	0	0	0	0	0
GRCA	20	1	0	7	1	2	0	2	1	0	0	1
NOMO	43	27	78	74	21	91	6	23	90	64	13	61
BRTH	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
CEWA	127	39	327	60	224	29	0	59	167	233	296	272
NOSH	4	0	0	0	2	0	0	1	0	4	0	0
STAR	2162	1084	8580	1578	699	10365	63	7220	4313	3321	1615	2293
OCWA	0	0	0	0	0	0	0	0	0	0	0	1
YRWA	1516	22	221	393	0	185	77	0	33	3	0	0
PIWA	0	0	0	5	0	0	0	0	1	0	0	0
PAWA	1	1	1	2	0	2	3	0	1	0	0	0
COYE	0	0	1	0	0	0	0	1	0	0	0	0
YBCH	1	0	0	0	0	0	0	0	0	0	0	0
NOCA	100	63	205	167	43	90	12	91	188	194	42	105
DICK	0	0	1	0	0	0	0	0	0	0	0	0
EATO	14	5	1	1	2	0	0	0	4	6	1	0
ATSP	7	24	557	42	185	117	11	147	198	237	154	132
CHSP	0	0	0	0	0	0	0	0	0	4	0	0



## 97th CHRISTMAS BIRD COUNT, December 20, 1996-January 5, 1997

species	And.	Athol	B. B.	C. Ann	C. Cod	Conc.	Gr. Bos.	Marsh.	M. V.	Mid-C.	Millis
Clay-colored Sparrow	0	0	0	1	0	0	0	0	0	0	0
Field Sparrow	0	1	35	1	5	11	4	5	50	1	52
Vesper Sparrow	0	0	1	0	0	0	0	0	0	1	0
Savannah Sparrow	0	0	162	0	3	1	0	1	34	18	0
"Ipswich" Sparrow	0	0	0	0	1	0	0	1	2	2	0
Sharp-td Sparrow sp.	0	0	0	0	0	0	0	1	0	1	0
Fox Sparrow	0	0	4	0	1	5	4	0	0	0	1
Song Sparrow	15	13	365	70	214	138	303	50	113	292	106
Swamp Sparrow	0	1	36	1	33	11	5	11	13	44	16
White-thr. Sparrow	8	11	351	59	302	167	229	184	178	242	134
White-cr. Sparrow	0	0	0	0	0	1	0	0	0	0	0
Dark-eyed Junco	185	894	264	243	85	1495	930	166	205	70	864
Lapland Longspur	0	0	1	0	3	0	3	8	0	0	0
Snow Bunting	0	12	27	83	100	0	98	3	53	1	0
Red-winged Blackbird	0	2	332	0	1	11	20	44	3	12	219
Eastern Meadowlark	0	0	1	0	26	0	0	20	6	10	2
Rusty Blackbird	0	0	0	0	0	4	11	49	0	1	8
Common Grackle	0	0	1	0	8	4	4	1	6	0	106
Br.-headed Cowbird	0	0	7	45	0	55	50	0	3	0	1
Baltimore Oriole	0	0	0	0	2	2	1	0	0	1	0
Bullock's Oriole	0	0	0	1	0	0	0	0	0	0	1
Purple Finch	16	6	2	5	2	3	0	2	2	0	20
House Finch	57	95	461	196	822	1002	526	331	295	215	279
Red Crossbill	0	0	0	0	0	0	0	0	0	0	0
White-winged Crossbill	0	0	0	0	0	0	0	0	0	0	0
Common Redpoll	0	0	0	0	0	0	0	0	0	0	2
Pine Siskin	0	6	0	0	0	0	0	0	20	0	0
American Goldfinch	179	650	931	299	548	1427	633	264	237	265	406
Evening Grosbeak	0	10	0	0	0	0	5	0	0	0	1
House Sparrow	562	676	767	1337	383	1301	2875	669	750	933	793
number of species	50	57	110	105	120	76	108	100	113	108	79
total birds	18640	9120	25247	24517	40195	34351	143314	23351	18308	18425	15308

And. = Andover CBC	12/28/96
Athol = Athol CBC	12/21/96
B. B. = Buzzards Bay CBC	12/21/96
C. Ann = Cape Ann CBC	12/22/96
C. Cod = Cape Cod CBC	12/22/96
Conc. = Concord CBC	12/28/96
Gr. Bos. = Greater Boston CBC	12/22/96
Marsh. = Marshfield CBC	12/29/96
M. V. = Martha's Vineyard CBC	1/5/97
Mid-C. = Mid-Cape Cod CBC	12/29/96
Millis = Millis CBC	12/21/96

## 97th CHRISTMAS BIRD COUNT, December 20, 1996-January 5, 1997

species	Nant.	N.B.	Nbpt.	Ply.	Quab.	Quin.	Stell.	Sturb.Tau/Mb.	Uxbr.	Wstrm.	Worc.	Nwp	
CCSP	0	0	0	0	0	0	0	0	0	0	0	0	
FISP	11	9	1	39	1	33	0	4	83	37	0	3	6
VESP	0	0	0	0	0	0	0	0	0	0	1	0	0
SASP	4	0	10	3	0	24	2	0	4	0	0	0	28
"IP"SP	1	0	2	0	0	1	0	0	0	0	0	0	2
STSP sp	0	0	1	0	0	0	0	0	0	0	0	0	0
FOSP	0	0	0	2	0	1	0	1	0	0	1	0	2
SOSP	281	37	105	207	46	153	14	86	172	144	26	86	385
SWSP	14	1	3	11	0	4	2	1	13	7	0	1	83
WTSP	183	52	105	219	95	102	13	143	108	108	22	97	402
WCSP	0	0	1	0	0	0	0	0	0	0	0	0	6
DEJU	45	50	345	129	1035	232	17	1538	521	758	660	701	77
LALO	0	0	45	0	0	1	3	0	0	0	0	0	0
SNBU	13	51	19	4	0	75	32	4	1	0	0	0	13
RWBL	75	0	3	0	0	0	0	0	0	43	0	5	38
EAME	1	3	0	0	0	0	0	0	0	0	0	0	23
RUBL	0	0	0	0	0	0	0	0	0	1	0	0	0
COGR	1	0	2	0	0	0	9	0	0	1	0	0	52
BHCO	5	1	4	0	0	12	0	2	1	1	0	0	817
BAOR	1	0	0	0	0	0	0	0	0	0	0	0	0
BUOR	0	0	0	0	0	0	0	0	0	0	0	0	0
PUFI	7	7	4	1	4	0	0	5	6	1	2	0	1
HOFI	208	173	418	200	160	147	11	331	250	439	191	190	299
RECR	0	0	0	0	4	0	0	0	0	0	0	0	0
WWCR	0	0	0	0	1	0	0	0	0	0	0	0	0
CORE	0	0	0	0	0	0	0	0	0	0	0	0	0
PISI	0	0	0	0	0	0	0	2	0	0	0	0	0
AMGO	338	152	782	234	303	174	28	371	259	526	278	337	210
EVGR	0	0	1	0	0	0	0	0	0	0	4	0	0
HOSP	315	183	1424	393	606	791	40	961	416	1017	647	806	334
# species	119	81	108	100	63	95	72	65	85	70	51	69	114
# birds	176060	12928	35931	14173	8975	36878	7130	18530	17572	15943	10424	13149	36279

Nant.	= Nantucket CBC	1/4/97
N. B.	= New Bedford CBC	12/28/96
Nbpt.	= Newburyport CBC	12/29/96
Ply.	= Plymouth CBC	12/27/97
Quab.	= Quabbin CBC	1/4/97
Quin.	= Quincy CBC	12/21/96
Stell.	= Stellwagen CBC	12/21/96
Sturb.	= Sturbridge CBC	12/20/96
Tau/Mb.	= Taunton-Middleboro CBC	12/28/96
Uxbr.	= Uxbridge, MA/RI CBC	1/4/97
Wstrm.	= Westminster CBC	12/28/96
Worc.	= Worcester CBC	12/21/96
Nwp.	= Newport, RI/Westport, MA CBC	12/21/96

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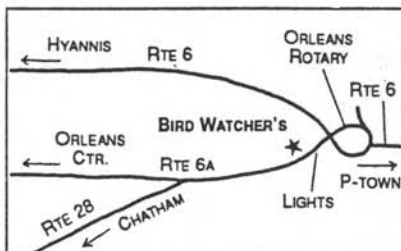
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