

SUMMARY FOR DECEMBER, 1977

December was wet, a bit on the mild side and under average on the snow side. The temperature averaged 34.2°, 1.2° above normal and 5.2° warmer than December, 1976. Temperatures fluctuated often with 7 days averaging 10° or more above normal and 5 days averaging as much below normal. The warmest day was the 21st, when the mercury hit 55°, 17° above normal, and the coldest temperature was 5° on the 12th, 22° below normal.

Precipitation totaled 6.20 inches, 1.96 over normal. The most in any day was 1.35 inches on the 1st. Measureable amounts fell on 16 days. Snow totaled only 5.2 inches, 3.0 less than average. The most in 24 hours was but 1.8 inches on the 5-6th. Some western and northern suburbs had much heavier snow fall. Wind averaged 14.2 mph; the fastest mile averaged was 49 mph from the northeast on the 6th, the peak gust registered 50 mph from the northwest on the 10th.

The 78th Christmas Bird Count (CBC) was held between December 17, 1977, through January 2, 1978. This summary contains a great deal of records submitted by the compilers of various counts. In order to avoid the repeating of dates, the following chart should be used for determining the date of the record.

<u>CBC</u>	<u>DATE</u>	<u>COMPILER</u>
Athol	12-26	Robert Coyle
Buzzards Bay	12-17	Richard Harlow
Cape Ann	12-18	Sally Ingalls
Cape Cod	12-18	Wallace Bailey
Greater Boston	12-18	Robert Stymeist
Martha's Vineyard	12-17	Gus Ben David
Millis	12-17	John Marshall, Jr.
Nantucket	12-18	Edith Andrews
Newburyport	12-26	Richard Heil
Plymouth	12-28	Trevor Lloyd-Evans
Quincy	12-17	Sibley Higginbotham
Tuckernuck	12-17	Richard Veit
Worcester	12-17	Francis McMenemy

LOONS THROUGH HERONS

On Nantucket 244 Common Loons and 50 Red-throated Loons were noted on the 18th (CBC), 44 Common Loons on the 26th (Newburyport CBC), and 59 were seen on the Plymouth CBC on the 28th. Red-necked Grebes were noted in small numbers with 3 on the Quincy CBC, 2 on the Nantucket CBC, and 4 on the Plymouth CBC (TL, LE). A total of 227 Horned Grebes were noted during the month. The Cape Cod CBC recorded 37 Pied-billed Grebes; the northern-most report of Pied-billed Grebes was 2 birds on the 5th in Salisbury (DCA). An unidentified shearwater was observed off 1st Encounter on the 7th (CAG, BN). On the 18th, the Nantucket CBC recorded 780 Gannets; the Cape Cod CBC on the same day recorded 120. Great Cormorants totaled 436 on the Quincy CBC, 161 on the Greater Boston CBC, and 140 on the Cape Cod CBC. Double-crested Cormorants were noted from Revere on the 2nd, when 3 were reported (SZ), an immature from PI on the 3rd (WRP, RPE), 3 from the Cape Cod CBC, and 2 (1 adult and 1 imm.) on

the Plymouth CBC.

Thirty-six Great Blue Herons were noted during the month, as were 44 Black-crowned Night-Herons. A Snowy Egret was found on the 17th on Martha's Vineyard (CBC). American Bitterns were found on the Tuckernuck (3), Cape Cod, Newburyport (2) and Plymouth counts.

WATERFOWL

Six Whistling Swans were reported from Martha's Vineyard on the 17th (CBC), 30 Mute Swans were noted in Lakeville on the 23rd (PH). Canada Geese totaled 2386 on the Cape Cod Count, and 1829 on the Newburyport CBC. Brants were noted in good numbers with 933 (Quincy), 98 (Boston), 1413 (Cape Cod), 126 (Plymouth), 10 (Newburyport). A single Snow Goose was noted from Braintree on the 1st (BAL, MFL), 2 were seen on the Martha's Vineyard and the Newburyport CBC. Black Duck CBC totals were as follows: Quincy-1609, Boston-1444, Cape Cod-1413, Newburyport-9326, and Plymouth-1064. Eighty-five Gadwalls were noted in Ipswich on the 3rd (WRP, RPE), and 14 were noted from GMNWR on the 2nd (RKW). There were still 60+ Pintails on PI on the 1st (P. Miliotis), and 95 were noted from Yarmouth, and 20 were seen in Barnstable on the 27th (BN, VL). The last Pintail was seen at GMNWR on the 9th (RKW). Green-winged Teal totaled 102 on the 1st at PI (P. Miliotis) and 150 were noted on the Nantucket CBC. Single Blue-winged Teal reports came from GMNWR on the 15th and 16th (RKW) and from the 27th to 31st in Sandwich (RFP). Five European Wigeons were noted on the Nantucket CBC, where 434 American Wigeons were counted; other American Wigeon CBC totals were 52 in Greater Boston, 37 in Plymouth. As many as 9 Northern Shovelers were reported from GMNWR on the 2nd (RKW), 8 were noted from PI on the 4th (P. Miliotis), and a record from Boylston on the 28th was interesting (HLM). Over 28 Wood Ducks were noted during the month from 8 localities, including 11 from Westport on the 1st (WRP#).

Redheads totaled 90 on the Buzzard's Bay CBC, and 143 were noted on the Nantucket CBC; 13 other individuals were reported. Ring-necked Duck totals were very low with only 4 noted on the Nantucket CBC, 42 on the Cape Cod CBC, and 17 on the Plymouth CBC. Canvasbacks retreated to Bristol County and the islands when ice began forming on all the ponds; 100 were noted from Acoaxet and 1200 from Assonet on the 11th (SSBC-WRP); 500+ were noted on the Nantucket CBC. Greater Scaup CBC totals: 3290 in Quincy, 3608 in Greater Boston and 1118 on Nantucket. Lesser Scaups were noted on the Nantucket CBC with 35, and 3 on the Plymouth CBC. Other reports included 10 in Lakeville on the 3rd (RRV#) and a single bird in Framingham on the 25th (RAF). CBC totals for Common Goldeneyes were Quincy-859, Boston-627, Nantucket-1151, Cape Cod-756, Newburyport-1028, and Athol recorded 4, which was new to their count. Eleven Barrow's Goldeneyes were noted as follows: singles from Assonet on the 11th (WRP), N. Scituate on the 16th (P. Anderson), Tuckernuck (CBC), Orleans (CBC), Plymouth on the 27th-28th (WRP#); 2 birds were reported from the following locations: Cape Ann (CBC), Boston (CBC), and in Scituate Harbor from the 17th-26th (SH#). Totals of Buffleheads include Quincy-616, Boston-695, and Cape Cod-1102. The stronghold for Oldsquaws is certainly off Nantucket; on the 17th Tuckernuck recorded 26,500, and the Nantucket CBC count numbered 14,521 on the 18th. Five Harlequin Ducks continued throughout the month in East Orleans (v.o.)

and as many as 5 were seen off and on in Magnolia (v.o.); singles were noted off Cohasset on the 16th-17th (SH) and one was seen in Scituate on the 4th (WRP#). Common Eider CBC totals were: Quincy-4395, Boston-4020, Tuckernuck-5015, Nantucket-11,704, Cape Cod-1492, and Plymouth-6880. Two King Eiders remained throughout the month in E. Orleans (v.o.), singles were noted in Quincy (CBC-SH), and in Rockport on the 21st (JG, LC). Two were noted in Mashpee on the 23rd (PH) and 2 were seen in Ellisville on the 28th (TLL'E). At Tuckernuck 1398 White-winged Scoters, and 975 Black Scoters were noted on the CBC, and Nantucket's CBC recorded 1901 Black Scoters. Seventy Ruddy Ducks were seen on the Cambridge Reservoir in Lincoln on the 4th (RAF), but my month's end very few were reported due to the freezing ponds. The Cambridge Reservoir also harbored 54 Hooded and 195 Common Mergansers on the 4th (RAF). The Cape Cod CBC reported 201 Common Mergansers and the Plymouth CBC noted 217. Red-breasted Merganser CBC totals were: Quincy-659, Boston-297, Cape Cod-265, Nantucket-795, Newburyport-136, and Plymouth-556.

RAPTORS

A very late Turkey Vulture was observed flying over Nahant on the 2nd (SZ); the previous late date was 11/17/58 in Truro, and there is one winter record from Chatham, 1/17/63. Nine Goshawks were noted. Twenty-eight Sharp-shinned Hawks were reported and a single Cooper's Hawk was identified in Lancaster on the 31st (HLM). The number of Red-tailed Hawks were especially noteworthy with 32 on the Boston CBC, 23 on the Worcester count and 37 on the Newburyport CBC. Single Red-shouldered Hawks were noted from Millis on the 17th (WED), Wareham (CBC-WRP#), Brookline (CBC-AA) and in Orleans (CBC). Rough-legged Hawks were reported in exceptional numbers with 54 individuals noted throughout eastern Massachusetts. An immature Bald Eagle continued in Orleans through the 18th (RMB#, v.o.). Total CBC counts of Marsh Hawks were: Tuckernuck-6, Nantucket-28, Cape Cod-15, Newburyport-7. There were 9 additional birds reported from 7 locations. An Osprey was found on the Martha's Vineyard CBC. However, it died a short time later. A single Peregrine Falcon was reported over Dorchester on the 23rd (JDO'R). Single Merlins were noted from Eastham on the 4th (RMB#), from Scituate also on the 4th (WRP, SH), from GMNWR on the 15th (RKW, Martha's Vineyard (CBC), Tuckernuck (CBC) and 6 on Cape Cod (CBC). Totals of American Kestrels on CBC were: Boston-25, Cape Cod-31, Newburyport-22, and Plymouth-14.

GROUSE THROUGH SHOREBIRDS

Nineteen Ruffed Grouses were noted; the closest to Boston was a single bird in the Middlesex Fells (CBC-PMR). Bobwhite CBC totals include 65 in Buzzards Bay, 26 on Cape Cod, 49 in Plymouth, and 12 in Medfield.

A Clapper Rail was flushed from the marsh around East Boston on the 10th (RRV, SAP), and 2 were noted from WEWS, (CBC-WWB). Thirty-two Virginia Rails were noted, and a Sora was noted from GMNWR on the 22nd and 30th (RKW). A Common Gallinule was seen off and on at Horn Pond, Woburn, (fide GWG) and 2 were noted on the Nantucket CBC.

Forty-eight Killdeers were noted from 8 coastal locations during the month, and 1 was found in Northbridge on the 11th (NEM). Black-bellied

Plovers totaled 14 from the Quincy count, 55 on the Cape Cod CBC and 4 were noted on the Newburyport CBC. Twelve Ruddy Turnstones were found on the Nantucket CBC and 1 was noted on the Boston and Plymouth CBC's. An American Woodcock was found in Saugus on the 16th (AS), and 27 Common Snipes were reported throughout the month from 8 localities. A Willet (of the western race) was carefully noted on the 18th in Eastham (CBC-WRP, KSA#). The only recent December record is in 1974 where a Willet was present on Nauset from the 1st-7th. Two Greater Yellowlegs were found in E. Boston on the 10th (RRV#), and 1 was noted on the Quincy CBC and 2 on the Cape Cod CBC. Red Knots were present throughout the month in Scituate, with a high count of 20 on the 4th (SH, WRP); the Quincy count recorded 25, while the Plymouth CBC noted 32. High counts of Purple Sandpipers include 85 on the Boston CBC, 35 on the Nantucket CBC and 62 were found in Rockport on the 3rd (BBC, VA). Over 800 Dunlins were estimated from Scituate on the 4th (WRP, SH), while the counts in Quincy recorded 608, Boston-241 and Cape Cod noted 2672. Long-billed Dowitchers were reported from Newburyport on the 3rd when 3 were seen (RPE, WRP); a single bird was found on the 10th (PA) and 5 were carefully identified on the CBC there on the 26th (WRP#). Another adult Long-billed Dowitcher was found in Scituate on the 4th (WRP, SH). An unidentified dowitcher was observed on the 4th at Nauset (CAG, BN). A calidris (sp.?) sandpiper was noted from Newburyport on the 3rd (WRP, RPE). A Marbled Godwit was found in E. Boston on the 2nd (SZ); single Marbled Godwits were reported in December of 1973, 1974, and 1975 but all from Cape Cod. Sanderlings totaled 135 on the Nantucket CBC, 435 on the Boston CBC and 248 on the Plymouth CBC.

SKUAS THROUGH ALCIDS

A skua (sp.?) was noted off 1st Encounter on the 7th (BN, CAG). The only other skua reports in recent Decembers include 1 in Rockport in 1973 and 2 from Nantucket Shoals in 1976. Inland reports of Glaucous Gulls include 1 in Clinton on the 18th (HLM) and 2 were reported on the Worcester CBC on the 17th. Thirty Iceland Gulls were counted along Cape Ann on the 19th (CWL) and 23 were reported on the Newburyport CBC. Ring-billed Gull CBC totals include: 868 in Quincy, 302 in Boston, 290 on Cape Cod, and 136 in Newburyport. Black-headed Gulls continue in good numbers in the Boston Harbor area with 9 in E. Boston on the 10th (SAP, RRV), and 8 were found on the Quincy CBC; two adults were noted from Newburyport on the 3rd (WRP, RPE) and singles were found in Orleans, Nauset and E. Falmouth (CBC's). At Manomet over 1000 Bonaparte's Gulls were noted on the 8th (MBO) with a near 700 on the Tuckernuck CBC and over 500 on the Newburyport CBC. Wintering Laughing Gulls numbered 21 in the Revere-Winthrop area (BBC-RHS) early in the month with only 1-2 there by month's end; another single Laughing Gull was noted on the Plymouth CBC. In the Newburyport-Salisbury area 1-2 Little Gulls were present off and on during the month. The CBC totals for Black-legged Kittiwakes were: 820-Tuckernuck, 1201-Nantucket, and 1500-Cape Cod. A Forster's Tern was found in Newburyport on the 4th (WRP, RPE); other late occurrences were 12/4/68 when 2 were observed in Wellfleet, and more recently at Newburyport on 12/3/72 (RAF#). More startling was the record of a Common Tern on the 18th at Nantucket (CBC-John Dennis#). Only occasional stragglers remain into November with no records for December, and only one record for January (1/3/54).

At Cape Ann 125 alcids were moving along Andrews Point on the 19th, most

of which were thought to be Razorbills (CWL). As many as 4 Black Guillemots were found at Rockport during the month (v.o.), while 3 were noted from Ipswich on the 26th (CBC). A single Black Guillemot was found in Sandwich on the 21st (RFP).

OWLS THROUGH SWALLOWS

The Greater Boston CBC recorded 7 species of owls, with an additional species during count period. Highlights were 2 Barn Owls found in a chimney on Thompson's Island, 17 Screech, 5 Great Horned, 4 Barred, 2 Short-eared, and single Long-eared and Saw-whet Owls. A Snowy Owl was observed over Route 2 in Lexington on the 17th (JD'R), and another was seen in Byfield on the 25th (TJ). Barn Owls were also noted on the Martha's Vineyard and Cape Cod CBC and one was picked up dead in Rockport on the 17th (ON). The Newburyport CBC reported 13 Screech, 8 Great Horned Owls, and a Saw-whet Owl. Two Long-eared Owls were present off and on throughout the month (JMA), and 3 were noted on the Cape Cod CBC.

Eighteen Belted Kingfishers were reported from the Cape Cod CBC, while 8 on the Quincy CBC was the next highest maximum. The milder winter season on Cape Cod accounts for 115 Common Flickers on the Cape Cod CBC versus 15 on the Boston CBC. Red-headed Woodpeckers were reported from Gloucester most of the month (VA#+v.o.), from Weston on the 5th (LJR) and in Dover on the 12th-13th (Mrs. Kenneth King). Wintering Yellow-bellied Sapsuckers were reported from Chatham on the 11th (fide BW), at the Arnold Arboretum on the Boston CBC (HHD'E#) and on Nantucket on the 26th (CJ). Thirty Hairy Woodpeckers were recorded on the Boston CBC, while only 6 were noted on the Cape Cod CBC. A total of 148 Downy Woodpeckers were counted on the Boston CBC.

An empidonax flycatcher was found in Salem on the 3rd (RSH), establishing the latest record for an empidonax flycatcher in Massachusetts. Horned Larks totaled 228 on the Newburyport CBC, for a new high for that CBC. Four Tree Swallows were noted from south Plymouth on the 23rd (MBO staff).

BLUE JAYS THROUGH MIMIDS

The CBC totals for Blue Jays include 411 in Quincy, 1091 in Boston, 719 in Newburyport, 422 in Athol and 546 in Plymouth. The all-time high count for Blue Jays is 2,837 from Concord. A Common Crow roost in Waltham (LJR) contained an estimated 2,000 birds, while other roosts were noted from West Roxbury (RMB) and Natick (EWT); only a few Fish Crows were reported with 6 on the Boston CBC and 3-5 were noted from Weston (LJR). Black-capped Chickadee CBC totals were up from 1976; most notable was Newburyport with 770 reported as compared with only 199 last year. Other CBC totals included 811 in Boston, 672 in Athol, and 907 on Cape Cod. A Boreal Chickadee was noted in West Boylston on the 17th (BB) and another was present in Lexington from the 24th to the 26th (JWA). Tufted Titmice CBC totals include 122 in Quincy and 155 in Boston. White-breasted Nuthatch CBC totals were 106, Worcester; 171, Boston; 72 Newburyport, and 51 in Athol. The Red-breasted Nuthatch invasion of this past fall was still much in evidence with the CBC totals. The following chart indicates the totals for 1976 and 1977 for Red-breasted Nuthatches.

<u>CBC</u>	<u>1976</u>	<u>1977</u>
Athol	5	8
Boston	23	127
Newburyport	5	20
Quincy	2	12

In Weston, over 200 Red-breasted Nuthatches were counted on the 26th (LJR)

Twenty Brown Creepers were seen on the Boston CBC, one of which was taken by a Northern Shrike in the Middlesex Fells. In Newburyport 14 Brown Creepers were counted as compared with only 4 in 1976. House Wrens were reported from Orleans and on the 3rd (BN,CAG), in East Falmouth on the 17th (CAG), and singles on the Quincy and Plymouth CBC's for a total of 6 as compared with 0, 3, 0, 2, 1 for the last 5 years. In Melrose 1-2 Winter Wrens were present throughout the month (JWA+v.o.), while 2 were noted on the Plymouth CBC and singles on the Buzzards Bay, Cape Cod and Newburyport CBC's. Sixteen Carolina Wrens were noted on the Buzzards Bay CBC, they seem to be holding a steady population there since 18 were noted on that count last year. A total of 8 Long-billed Marsh Wrens were seen in Harwich on the 18th (CBC-BN) and 2 were seen in the Saugus Marsh on the Boston CBC, for an unusual winter record north of Boston (SZ,CJ).

Mockingbird CBC totals changed very little from 1976, with 59 in Quincy, 101 in Boston, 80 on Cape Cod, 39 in Newburyport and 51 in Plymouth. On Tuckernuck 6 Gray Catbirds were noted, and 5 were counted on the Nantucket CBC; the most northerly report was in Brookline on the 18th (CBC-DA). Eight Brown Thrashers were recorded from seven localities, most south of Boston.

THRUSHES THROUGH WARBLERS

American Robin CBC totals include 337 in Boston, 359 on Cape Cod and 52 at Newburyport. Certainly one of the highlights of the month was the mild invasion of Varied Thrush reports with singles reported from Brewster on the 5th (MLE), from Bedford on the 17th (LFoss), from Melrose on the 18th-31st (CBC-JNA+v.o.), from Ipswich on the 26th (HW#) and from West Concord on the 25th (VB#). Five Hermit Thrushes were reported with 1 in Boxford being the most northerly (CBC). In Chatham 7 Eastern Bluebirds were reported (HR#+v.o.) during the month.

Only 18 Golden-crowned Kinglets were reported during the month, the lowest number within the last five years for December. Ruby-crowned Kinglets however totaled 7 individuals, all from Plymouth south, showing no relationship with the scarcity of Golden-crowned Kinglets. Two Water Pipits were noted from Gloucester on the 3rd (BBC-VA) and a single pipit was noted from Revere on the 4th (RHS). Only small flocks of Cedar Waxwings were noted during the month with a maximum of only 75 on the Cape Cod CBC.

Northern Shrikes continued from November with 23+ reported during the month, while an adult Loggerhead Shrike was carefully studied in Canton on the 2nd (RMB). We are sorry to report that the Starling roosts are

still startling in Quincy and Boston with 100,000+ and 87,800+ respectively reported on the CBC.

There were 3 Orange-crowned Warblers reported with singles in Barnstable (RFP) on the 13th, Wareham on the 17th (CBC-WRP#) and in Chatham on the 18th (CBC-VS). Yellow-rumped Warbler CBC totals include 130, Quincy; 265 Tuckernuck; 227, Nantucket; 973, Cape Cod; 131, Plymouth; and 40 on PI. A Pine Warbler was found in Salem on the 3rd (IG), and Palm Warblers totaled 4 on the Cape Cod CBC, and 7 were seen in Bridgewater on the 27th (RSH). At Great Meadows, Concord, 1-2 Common Yellowthroats were present between the 8th-11th. Four Yellow-breasted Chats were noted during the month with singles in Salem on the 3rd (RSH), Scituate on the 4th (SH#), Falmouth on the 17th (CBC-VL) and 1 was noted in Waltham from the 1st-10th (PM).

MEADOWLARKS THROUGH SNOW BUNTINGS

As many as 65 Eastern Meadowlarks were counted in Bridgewater on the 26th (RSH), and 24 were reported on the Plymouth CBC. A few small wintering flocks of Redwinged Blackbirds were noted during the month with a maximum of just 40 on the Nantucket CBC. A number of Northern Orioles were wintering in different areas of eastern Massachusetts as summarized below:

Northern Orioles:

8, 10	Wayland, Ipswich	1, 1	J.Santamaria, JN
15, 18	Canton, Chatham	1, 1	R.Michener, CBC-BN
20, 31	Wayland (different), Rockland	1, 1	H.Chamberlin, fide MJL

Two Rusty Blackbirds were noted at GMNWR on the 16th (RKW), 3 were reported on the Boston CBC, and 2 on the Buzzards Bay CBC. A wintering flock of Common Grackles totaled 150+ in Dedham on the 27th-28th (EC), and a flock of 100 Brown-headed Cowbirds were noted from Littleton on the 4th (JB). Western Tanagers were reported from Nantucket on the 4th-5th (JD), from Manomet on the 13th (MBO staff), and one was picked up dead on the 27th (NH) in Belmont--specimen to MAS. In Boston 141 Cardinals were counted on the CBC, 108 were noted on the Cape Cod CBC and 44 were reported on the Newburyport CBC. An Indigo Bunting was reported from Nantucket (fide EFA) on the 18th for an extremely late record. The only other winter record is from Billerica on 2/22/53 where it remained until 4/14/53. Dickcissels were noted from Truro on the 4th (RMB#) and from Canton on the 26th (BBlakely). Evening Grosbeak totals were not quite as high along the coast as they were inland with Athol reporting 937. Only 3 Purple Finches were reported on the Quincy CBC, while 44 were noted on the nearby Boston CBC. House Finches continue to increase; while not so evident in Greater Boston and Cape Cod, other areas show a marked increase since 1972. Below is a 1972 and 1977 comparison for House Finches.

<u>CBC</u>	<u>1972</u>	<u>1977</u>
Cape Cod	489	462
Greater Boston	139	155
Nantucket	0	86
Newburyport	15	59
Quincy	41	111

As many as 85 Pine Grosbeaks were reported between the 17-31st from 9 localities. Common Redpolls arrived in good numbers at mid-month with 71 on the Worcester CBC, 139 reported on the Boston CBC, and 176 on the Athol CBC. Pine Siskins continued in exceptional numbers and CBC totals include: 122, Worcester; 272, Cape Cod; 487, Boston; 175, Newburyport; and 314 in Athol. The CBC totals for American Goldfinches were normal with 452 in Boston; 318, Cape Cod; 254, Newburyport and 134 in Plymouth. Red Crossbills totaled 36 on the Newburyport CBC and 108 on the Plymouth CBC. The number of White-winged Crossbills continued to increase with 191 reported on the Boston CBC and 199 on the Worcester CBC. Wintering Rufous-sided Towhees include the following CBC totals: Boston, 4; Nantucket, 4; and Plymouth, 3.

On Plymouth Beach 4 "Ipswich Sparrows" were noted on the CBC (TL'D). Two Sharp-tailed Sparrows and 1 Seaside Sparrow were noted at Nauset on the 18th (CBC-WRP); another Sharp-tailed Sparrow was seen in E. Boston on the 10th (RRV#). A Lark Sparrow visited a feeder in Needham on the 5th where it remained through the end of the month (DHottle +v.o.). Dark-eyed Junco CBC totals include: 138, Quincy; 734, Boston; 182, Newburyport; and 268 in Plymouth. High counts of Tree Sparrows include 492 in Newburyport and 361 in Boston CBC's. A Chipping Sparrow was noted in the Barnstable-Sandwich area on the 8th (RFP). Eleven Field Sparrows were noted on both the Quincy and Plymouth CBC's, and 6 were noted from Weston on the 17th (LJR). The sparrow highlight was an immature first winter Harris' Sparrow found in Belmont on the 16th where it remained until the 24th (PM+v.o.). For the 2nd year in a row the Nantucket CBC recorded 12 White-crowned Sparrows; 3 adults were noted from Danvers on the 23rd (RSH) and singles were noted in Stoneham (MM) and on the Boston and Tuckernuck CBC's. White-throated Sparrows were way down from 1976 records as summarized below:

<u>CBC</u>	<u>1976</u>	<u>1977</u>
Cape Cod	485	112
Greater Boston	472	185
Newburyport	153	45
Plymouth	489	93

Twenty-two Fox Sparrows were noted on the Boston CBC and 23 others were recorded from 10 localities. In Lancaster 4 Swamp Sparrows were found from the 18th on (HLM) and 2 were noted on the Newburyport CBC. The totals of Song Sparrows were also down from last year, with 50 in Quincy; 55, Tuckernuck; 203, Boston; 56, Newburyport; and 97 in Plymouth. Lapland Longspurs totaled 40 in Salisbury on the CBC as the month's maximum. On Martha's Vineyard 150 Snow Buntings were found on the CBC and 41 were noted in Framingham on the 25th-26th (RAF).

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ADDENDA

November 1977

Red-breasted Merganser:	11/12	Barnstable	4,700	RFP
Red-shouldered Hawk:	11/16	Brewster	1	CAG
Red Phalarope:	11/11	F.E.	4	WB
Forster's Tern:	11/15	Barnstable	1	RFP
Caspian Tern:	11/3	Eastham	9	CAG
Barn Owl:	11/3	East Orleans (severely injured-later died)	1	R.Prescott
	11/25	Hyannis	1	VL
Barn Swallow:	11/12	Orleans	1	BN,CAG
Western Kingbird:	11/10	Eastham	1	CAG
Lincoln's Sparrow:	11/6	Wellfleet	1	BN

BIRD SIGHTINGS ON PARKER RIVER REFUGE

Starting immediately "Interesting Observations" sheets will be maintained at the Parker River National Wildlife Refuge (Plum Island). The sheets will be on a clipboard located inside the gatehouse on the western wall at the main entrance to the Refuge.

The personnel would like you to feel free to stop and use these sheets at any time. Even when the gatehouse is unattended, the door is open to allow you to refer to the listings of bird sightings or to record listings of your own observations.

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By Appointment

TIDE CHART

Here is the tide table for Boston Harbor; add one hour for Daylight Savings Time.

1978		MAY TIDES				1978	
Morning	BOSTON	Afternoon	BOSTON	Afternoon	BOSTON	Afternoon	
High 11:21 Height 9.6 Low 5:07 Height -0.0 Surge 4:30	SUNDAY 7 NEW MOON	High 11:34 Height 10.3 Low 5:19 Height 0.51 Surge 4:22	High 3:55 Height 8.9 Low 10:15 Height 0.37 Surge 4:22	SUNDAY 14	High 4:31 Height 15.1 Low 10:36 Height 0.59	High 8:4	
High 5:49 Height -0.8 Low 4:39	MONDAY 8	High 12:03 Height 9.5 Low 6:01 Height 0.1 Surge 4:32	High 4:47 Height 8.8 Low 11:06 Height 0.8 Surge 4:21	MONDAY 15 FIRST QUARTER	High 5:22 Height 8.5 Low 11:32 Height 1.4 Surge 4:00	High 5:22	
High 12:15 Height 10.3 Low 6:30 Height -0.8 Surge 4:28	TUESDAY 9	High 12:44 Height 9.3 Low 6:42 Height 0.4 Surge 4:53	High 5:41 Height 8.7 Low 11:59 Height 0.8 Surge 4:20	TUESDAY 16	High 6:14 Height 8.7 Low 12:07 Height 1.0	High 6:14	
High 12:55 Height 10.1 Low 7:11 Height -0.4 Surge 4:27	WEDNESDAY 10	High 1:26 Height 9.0 Low 7:23 Height 0.7 Surge 4:54	High 6:33 Height 8.6 Low 12:27 Height 1.2 Surge 4:19	WEDNESDAY 17	High 7:04 Height 8.1 Low 12:50 Height 0.6 Surge 4:00	High 7:04	
High 1:37 Height 9.8 Low 7:55 Height -0.1 Surge 4:25	THURSDAY 11	High 2:09 Height 8.8 Low 8:07 Height 0.9 Surge 4:55	High 7:27 Height 8.0 Low 1:19 Height 0.7 Surge 4:19	THURSDAY 18	High 7:52 Height 7.9 Low 1:41 Height 0.4 Surge 4:03	High 7:52	
High 2:20 Height 9.5 Low 8:38 Height -0.7 Surge 4:25	FRIDAY 12	High 2:51 Height 8.6 Low 8:54 Height 1.2 Surge 4:56	High 8:18 Height 7.8 Low 2:10 Height 1.1 Surge 4:18	FRIDAY 19	High 8:41 Height 7.5 Low 2:29 Height 0.1 Surge 4:04	High 8:41	
High 3:05 Height 9.1 Low 9:26 Height 0.5 Surge 4:23	SATURDAY 13	High 3:42 Height 8.4 Low 9:44 Height 1.4 Surge 4:58	High 9:09 Height 7.6 Low 3:01 Height -0.7 Surge 4:17	SATURDAY 20	High 9:27 Height 7.0 Low 3:16 Height -0.4 Surge 4:04	High 9:27	
BOSTON		MAY	BOSTON	MAY	BOSTON		
Eastern Standard Time		Add 1 Hour for Daylight Savings Time	Eastern Standard Time	Add 1 Hour for Daylight Savings Time	Eastern Standard Time		

1978		JUNE TIDES				1978	
Morning	BOSTON	Afternoon	BOSTON	Afternoon	BOSTON	Afternoon	
High 10:17 Height 9.1 Low 4:03 Height -0.4 Surge 4:08	SUNDAY 4	High 10:28 Height 10.2 Low 4:12 Height 0.3 Surge 4:16	High 2:34 Height 9.4 Low 8:52 Height 0.2 Surge 4:06	SUNDAY 11	High 3:08 Height 12.1 Low 9:10 Height 1.2 Surge 3:22	High 3:08	
High 11:00 Height 9.4 Low 4:45 Height -0.5 Surge 4:07	MONDAY 5 NEW MOON	High 11:09 Height 10.2 Low 4:54 Height 0.6 Surge 4:18	High 3:21 Height 9.2 Low 9:39 Height 0.4 Surge 4:04	MONDAY 12	High 3:55 Height 11.2 Low 10:00 Height 1.2 Surge 3:22	High 3:55	
High 11:41 Height 9.1 Low 5:26 Height -0.5 Surge 4:07	TUESDAY 6	High 11:47 Height 10.1 Low 5:33 Height 0.5 Surge 4:18	High 4:08 Height 9.0 Low 10:27 Height 0.5 Surge 4:08	TUESDAY 13 FIRST QUARTER	High 4:43 Height 8.6 Low 10:52 Height 1.2 Surge 3:22	High 4:43	
High 12:00 Height 9.4 Low 6:05 Height -0.4 Surge 4:07	WEDNESDAY 7	High 12:19 Height 9.0 Low 6:15 Height 0.6 Surge 4:18	High 5:02 Height 8.8 Low 11:16 Height 0.6 Surge 4:06	WEDNESDAY 14	High 5:31 Height 9.1 Low 11:48 Height 0.9 Surge 3:22	High 5:31	
High 12:28 Height 10.0 Low 6:47 Height -0.3 Surge 4:06	THURSDAY 8	High 1:00 Height 8.9 Low 6:57 Height 0.8 Surge 4:20	High 5:54 Height 8.8 Low 12:41 Height 0.6 Surge 4:06	THURSDAY 15	High 6:23 Height 9.5 Low 12:07 Height 0.6 Surge 3:22	High 6:23	
High 1:08 Height 9.8 Low 7:27 Height -0.2 Surge 4:06	FRIDAY 9	High 1:42 Height 8.8 Low 7:40 Height 0.9 Surge 4:21	High 6:48 Height 8.9 Low 1:02 Height 0.5 Surge 4:06	FRIDAY 16	High 7:13 Height 9.9 Low 1:42 Height 0.4 Surge 3:22	High 7:13	
High 1:51 Height 9.6 Low 8:09 Height 0.0 Surge 4:06	SATURDAY 10	High 2:23 Height 8.8 Low 8:23 Height 1.1 Surge 4:21	High 7:36 Height 8.9 Low 1:44 Height 0.0 Surge 4:07	SATURDAY 17	High 8:07 Height 10.8 Low 1:54 Height 0.8 Surge 3:24	High 8:07	
BOSTON		JUNE	BOSTON	JUNE	BOSTON		
Eastern Standard Time		Add 1 Hour for Daylight Savings Time	Eastern Standard Time	Add 1 Hour for Daylight Savings Time	Eastern Standard Time		

1978		MAY JUNE TIDES				1978	
Morning	BOSTON	Afternoon	BOSTON	Afternoon	BOSTON	Afternoon	
High 10:00 Height 9.9 Low 3:49 Height -1.1 Surge 4:19	SUNDAY 21	High 10:16 Height 11.2 Low 4:04 Height -0.6 Surge 4:23	High 3:34 Height 10.8 Low 9:55 Height -0.9 Surge 4:13	SUNDAY 28	High 4:16 Height 10.2 Low 10:22 Height 0.1 Surge 4:10	High 4:16	
High 10:47 Height 10.2 Low 4:28 Height -1.6 Surge 4:17	MONDAY 22	High 11:05 Height 11.2 Low 4:52 Height -0.8 Surge 4:12	High 4:37 Height 10.1 Low 10:55 Height -0.5 Surge 4:12	MONDAY 29 LAST QUARTER	High 5:16 Height 9.8 Low 11:25 Height 0.2 Surge 4:10	High 5:16	
High 11:39 Height 10.4 Low 5:28 Height -1.9 Surge 4:16	TUESDAY 23	High 11:55 Height 11.7 Low 5:42 Height -0.9 Surge 4:11	High 5:39 Height 9.7 Low 11:54 Height -0.7 Surge 4:11	TUESDAY 30	High 6:17 Height 8.9 Low 12:28 Height -0.7 Surge 4:11	High 6:17	
High 11:39 Height 10.4 Low 5:28 Height -1.9 Surge 4:16	WEDNESDAY 24	High 12:30 Height 10.4 Low 6:32 Height -0.9 Surge 4:10	High 6:41 Height 9.2 Low 12:28 Height 0.2 Surge 4:10	WEDNESDAY 31	High 7:14 Height 10.0 Low 12:54 Height 0.0 Surge 4:10	High 7:14	
High 12:46 Height 11.7 Low 7:08 Height -2.0 Surge 4:14	THURSDAY 25	High 12:46 Height 11.7 Low 7:08 Height -2.0 Surge 4:14	High 7:42 Height 10.1 Low 1:31 Height -0.1 Surge 4:10	THURSDAY 1	High 8:09 Height 10.0 Low 1:49 Height -0.1 Surge 4:10	High 8:09	
High 1:40 Height 11.5 Low 8:01 Height -1.7 Surge 4:14	FRIDAY 26	High 2:19 Height 10.0 Low 8:20 Height -0.4 Surge 4:08	High 8:39 Height 9.2 Low 2:27 Height -0.8 Surge 4:08	FRIDAY 2	High 8:59 Height 9.5 Low 2:40 Height 0.2 Surge 4:08	High 8:59	
High 2:36 Height 11.1 Low 8:47 Height -1.4 Surge 4:13	SATURDAY 27	High 3:15 Height 10.5 Low 9:20 Height -0.3 Surge 4:09	High 9:30 Height 9.2 Low 3:17 Height -0.8 Surge 4:08	SATURDAY 3	High 9:46 Height 10.3 Low 3:28 Height 0.3 Surge 4:10	High 9:46	
BOSTON		MAY	BOSTON	BOSTON	MAY-JUNE	BOSTON	
Eastern Standard Time		Add 1 Hour for Daylight Savings Time	Eastern Standard Time	Eastern Standard Time	Add 1 Hour for Daylight Savings Time	Eastern Standard Time	

1978		JUNE-JULY TIDES				1978	
Morning	BOSTON	Afternoon	BOSTON	Afternoon	BOSTON	Afternoon	
High 8:39 Height 9.5 Low 2:31 Height -0.6 Surge 4:07	SUNDAY 18	High 8:58 Height 10.0 Low 2:45 Height -0.2 Surge 4:06	High 2:20 Height 11.2 Low 8:38 Height -1.5 Surge 4:09	SUNDAY 25	High 2:56 Height 10.4 Low 9:02 Height -0.4 Surge 4:05	High 2:56	
High 9:32 Height 9.8 Low 3:24 Height -0.7 Surge 4:07	MONDAY 19	High 9:51 Height 11.5 Low 3:38 Height -0.7 Surge 4:06	High 3:18 Height 10.7 Low 9:33 Height -1.0 Surge 4:09	MONDAY 26	High 3:53 Height 10.2 Low 10:01 Height -0.1 Surge 4:05	High 3:53	
High 10:26 Height 10.2 Low 4:16 Height -1.7 Surge 4:07	TUESDAY 20 FIRST MOON	High 10:44 Height 11.8 Low 4:29 Height -0.8 Surge 4:04	High 4:16 Height 10.1 Low 10:30 Height 0.5 Surge 4:10	TUESDAY 27 LAST QUARTER	High 4:52 Height 10.1 Low 11:03 Height 0.1 Surge 4:05	High 4:52	
High 11:19 Height 10.4 Low 5:07 Height -2.0 Surge 4:07	WEDNESDAY 21	High 11:36 Height 11.0 Low 5:21 Height -1.0 Surge 4:04	High 5:16 Height 9.5 Low 11:28 Height 0.0 Surge 4:10	WEDNESDAY 28	High 5:49 Height 9.9 Low 12:05 Height 0.3 Surge 4:05	High 5:49	
High 12:29 Height 11.9 Low 6:50 Height -2.2 Surge 4:08	THURSDAY 22	High 12:12 Height 10.6 Low 6:15 Height -1.1 Surge 4:05	High 6:17 Height 9.1 Low 12:05 Height 0.3 Surge 4:11	THURSDAY 29	High 6:48 Height 9.9 Low 12:25 Height 0.3 Surge 4:05	High 6:48	
High 12:29 Height 11.9 Low 6:50 Height -2.2 Surge 4:08	FRIDAY 23	High 1:06 Height 10.6 Low 7:08 Height -1.0 Surge 4:05	High 7:17 Height 8.8 Low 1:07 Height 0.3 Surge 4:11	FRIDAY 30	High 7:40 Height 9.9 Low 1:21 Height 0.6 Surge 4:05	High 7:40	
High 1:24 Height 11.7 Low 7:43 Height -1.9 Surge 4:08	SATURDAY 24	High 2:01 Height 10.6 Low 8:04 Height -0.7 Surge 4:12	High 8:14 Height 8.7 Low 2:03 Height 0.2 Surge 4:12	SATURDAY 1	High 8:31 Height 9.9 Low 2:12 Height 0.7 Surge 4:04	High 8:31	
BOSTON		JUNE	BOSTON	BOSTON	JUNE-JULY	BOSTON	
Eastern Standard Time		Add 1 Hour for Daylight Savings Time	Eastern Standard Time	Eastern Standard Time	Add 1 Hour for Daylight Savings Time	Eastern Standard Time	

Tidal differences from Boston High Tide

- Newburyport 31 minutes later
- Situate 5 minutes earlier
- Plymouth 5 minutes later
- Chatham (outside) 30 minutes later
- (inside) (1 hr) 54 minutes later
- New Bedford (3 hrs) 15 minutes earlier