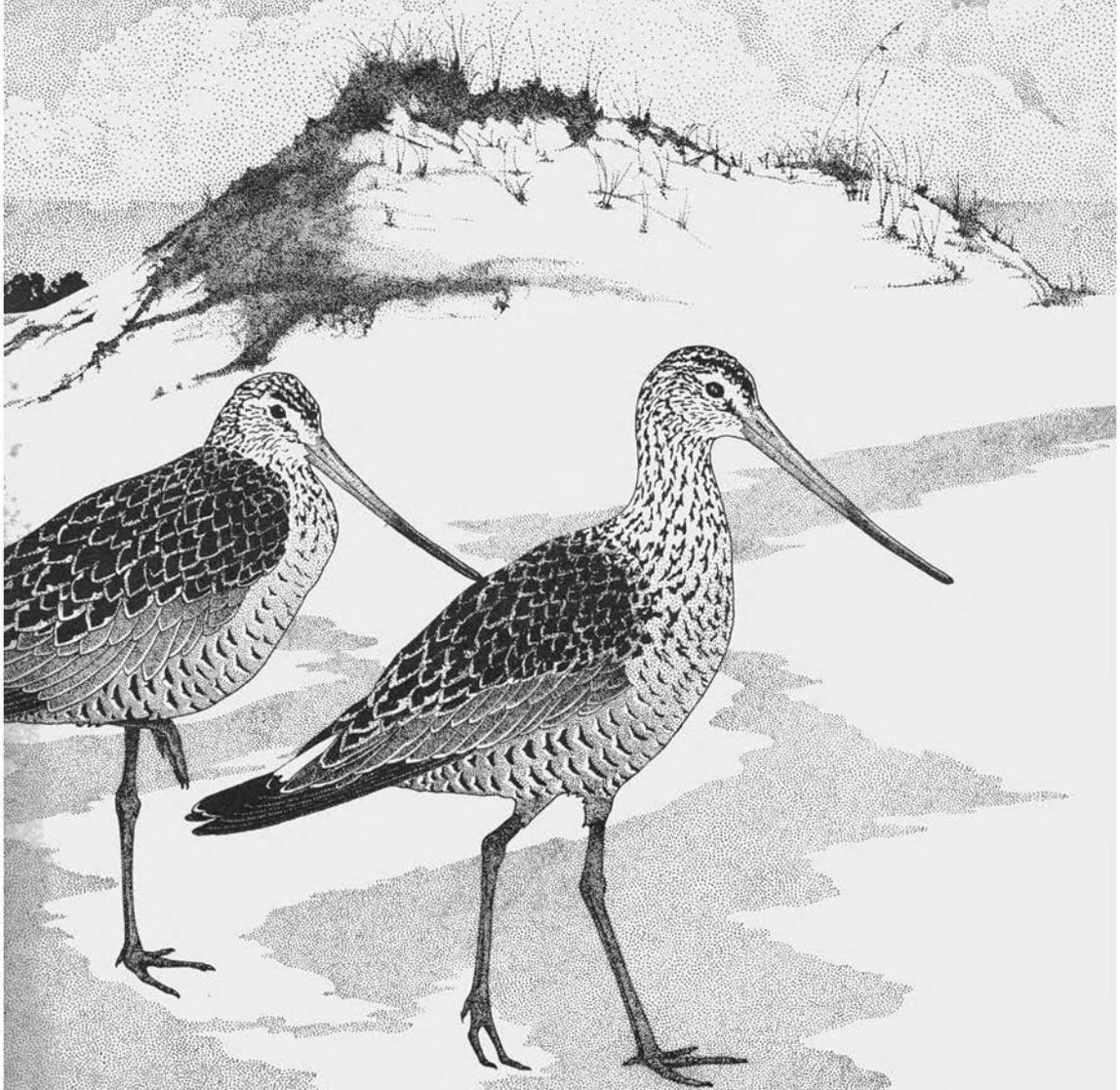


BIRD OBSERVER

OF EASTERN MASSACHUSETTS



APRIL, 1980

VOL. 8 NO. 2



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OF EASTERN MASSACHUSETTS

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<p>Bird Observer of Eastern Massachusetts has been declared a non-profit tax-exempt organization by the Internal Revenue Service. Any gifts to Bird Observer will be greatly appreciated and will be tax deductible to the full extent of the law.</p>
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PETERSEN FIELD GUIDE

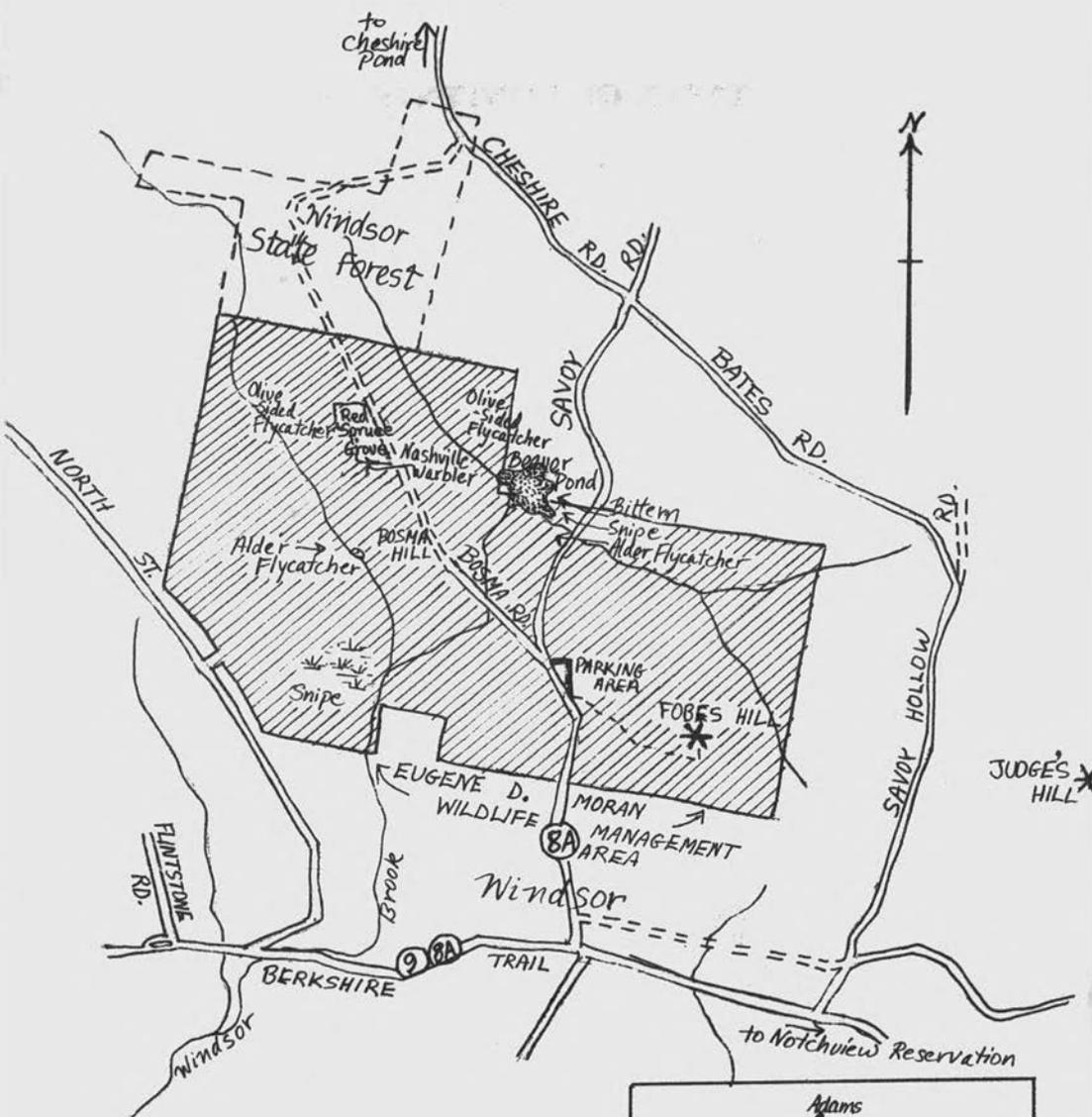
Herman D'Entremont regrets to announce that the new Petersen field guide to the birds of eastern North America will not be available this spring, as advertised in Bird Observer, Volume 8, No. 1. The field guide will not be available until late fall at the earliest. Herman will continue to take orders for this book (at a 25% discount), and wants everyone to know that all orders will be filled promptly when the book is published.

TAKE A SECOND LOOK

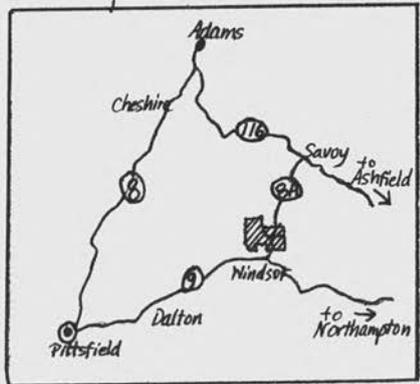
Take a Second Look (TASL) will conduct two surveys this summer, of herons on July 20 and shorebirds on August 3, as part of its Year of Boston Harbor Project. Observers will be asked to make species counts and track the birds' movements for several hours at specific feeding or roosting sites. A compilation will follow each survey. A barbecue will follow the heron survey, after which we will drive to different vantage points to observe the evening heron flights to the harbor islands. As with all TASL activities, there will be a participation charge of \$1 for each survey. There will be a small additional charge for the barbecue (for hot dogs, hamburgers, etc.) and people will be asked to bring a cold salad, fruit, or beverages.

If you want to participate or need additional information, please contact a TASL coordinator: Craig Jackson, 864-1979; Soheil Zende, (home) 628-8990, (work) 923-0941.

In Volume 7, No. 6, Bird Observer published a letter from George W. Gavitis, Manager of the Parker River National Wildlife Refuge, regarding the conduct of birders at Plum Island. The letter concluded with a facsimile of a Permit for Birding on the refuge. We hope that no readers have mistakenly thought this facsimile was a valid permit. If you desire a permit as shown in the letter, please apply at the refuge headquarters or at the gatehouse on the refuge proper.



FOBES HILL AREA



BIRDS OF THE FOBES HILL REGION

by Douglas B. McNair, Columbia, South Carolina

The Massachusetts Breeding Bird Atlas Project has focused attention on nesting activity in the western portions of the state. I welcome the opportunity to present Fobes Hill as an enjoyable, rewarding, and uncrowded area for birdwatching. For those satiated with overcrowded Mt. Greylock, I invite you to Fobes Hill, Windsor, the best single locality in the state for nesting species.

Named the Eugene D. Moran Wildlife Management Area after the late director of the western wildlife district of the Massachusetts Division of Fisheries and Wildlife, Fobes Hill is the latest acquisition of land in the Berkshires by that organization. It continues a string of purchases of top-value lands for wildlife. The Fobes Hill transaction, which included land purchased from three landowners, was completed in 1977, and the public has since had free access to it though overnight camping is not allowed. The Eugene D. Moran W.M.A. boundaries encompass 1,040 acres though the area discussed here also includes land that lies roughly within a three-mile radius of the center of the wildlife area. Access is simple: at the junction of Routes 9 and 8A in Windsor, take 8A north for one mile and park at the road beside the burned-down house and farm building.

The Fobes Hill region is located on the crest of the Hoosac Plateau, an uplifted peneplain, and lies within both the Connecticut and Housatonic watershed systems. Elevation varies from 1400 to 2297 feet (Judges Hill) though most of the land is above 1900 feet. The land is forested and is dotted by homes, small farmlands, and pastures. The wildlife area is of open or semi-open character, which is scarce in the forested Berkshires. This locality is the best for birdwatching. The vegetation is in all stages of succession. The edge effect is tremendous and ensures richness and density of nesting species. There are beaver ponds, sedge and grass marshes, alder swamps, heath, scrub, brush, pasturelands, deciduous wood lots, mixed northern hardwood-softwood forest, small stands of Red Spruce, Christmas-tree-size balsam fir, and other plant species or communities. No wonder at least 99 species of birds are known to have bred here since 1970.

Fobes Hill is not for the birdwatcher who dislikes getting his feet wet or his clothes soiled. There is no maintained trail system except at nearby Notchview Reservation, but the numerous fire, logging and old homestead roads and deer paths suffice very well and ensure the fairly wild aspect of the area. The more obvious and rewarding trails are indicated on the map.

Insects can be obnoxious. There are four real insect pests here although the blackfly season is so short (May) and the flies number so few that they are no problem. The same cannot be said for the other three pests. A wide-brimmed hat to combat the deer flies is recommended when walking in the marshes and beaver ponds. The mosquitos and midges are their usual selves.

The systematic list that follows records the 171 species proven to occur since 1970. Ninety-nine are known breeders and a few more are in the probable and possible categories. Remarkably few people have visited the area within the last 50 years despite the abundance of breeding birds. Fobes Hill

does not have some of the breeding specialties of Mt. Greylock or the Savoy Mountain State Forest, e.g., Gray-cheeked Thrush (formerly at Mt. Greylock), Ruby-crowned Kinglet, Blackpoll Warbler, and Rusty Blackbird, though some of these species and the Raven are future possibilities. But I challenge anyone to record more breeding species within one small area in this state.

The accompanying map and list are self-explanatory. However, I would like to highlight some species and features.

Standing on Bosma Hill, you can hear, as perhaps nowhere else in Massachusetts, the primeval chorus of snipe, woodcock, American Bittern, and Ruffed Grouse. The morning chorus in the amphitheater of Fobes Hill is tremendous: Alder Flycatchers and Swamp Sparrows are common, and a pair of Olive-sided Flycatchers is present at the beaver pond. At the forest edge on the northwestern side of Bosma Hill, Yellow-bellied Sapsuckers, Pileated Woodpeckers, Brown Creepers, and Winter Wrens may be heard singing or calling. Bobolinks sing in the grassy fields and one pair of Savannah Sparrows is present. An American Kestrel wings its way home to the slender dead tree beside the stream which flows from the beaver pond where another pair of snipe nests and feeds in the grassy swale. Two pairs of Yellow Warblers are present nearby (local in the uplands at this elevation), and a Goshawk may be glimpsed darting along toward Judges Hill. This is typical of what may happen in a few minutes at Fobes Hill.

To the north of Bosma Hill and adjacent to a portion of the Windsor State Forest is a small and very rewarding stand of Red Spruce. The specialty here is the Nashville Warbler. Six pairs breed and others may be found nearby. Several Red Spruce-loving nesting species may be found here including Saw-whet Owl, Red-breasted Nuthatch, Swainson's Thrush (sometimes), Golden-crowned Kinglet (usually), Magnolia, Yellow-rumped and Blackburnian Warblers, and White-throated Sparrows.

The heath, scrub, and pasturelands off Route 8A near the parking lot produce Black-billed Cuckoo (one pair), Brown Thrasher, Indigo Bunting, Rufous-sided Towhee, and Field Sparrow. Raptors nest in the adjacent woodlands though a search is required to detect those of local distribution such as the Red-shouldered Hawk and Goshawk.

The summit of Fobes Hill is a poorly known hawk-watch locality though the little data we have is tantalizing. Members of the species which tend to follow the ridges closely, such as the Sharp-shinned and Marsh Hawks, appear to be greatest passing along the north-south ridge of Judges Hill, the highest point in Windsor, and one mile east of Fobes Hill summit. It is believed that more raptors follow the crest of the Hoosac Plateau than fly to the east or west of it. If an observer could find another locality nearby, then the hypothesis could be tested. Nevertheless, Fobes Hill is an average hawk-watch locality and very accessible; it is only a quarter-mile walk from the parking area. The great Sharp-shinned Hawk flight of 1977 produced record counts in the northeastern United States. On September 28, 1977, two observers recorded 400 sharpies during an eight-hour watch on Fobes Hill. It was also an explosive day for other migrants, e.g., 2875 Blue Jays. The summit is excellent for counting non-raptor migrants such as Robin, Yellow-rumped Warbler, Evening Grosbeak, Purple Finch, and

indeed, almost any species. It is hoped that non-game birds and non-raptors receive more emphasis in the future.

Special species to be looked for which may nest in the Fobes Hill region include Sharp-shinned Hawk, Virginia Rail, Long-eared Owl, Yellow-bellied Flycatcher, Tufted Titmouse, Short-billed Marsh Wren, Ruby-crowned Kinglet, Parula Warbler, Mourning Warbler, Rusty Blackbird, Evening Grosbeak, and Pine Siskin. The nesting season is when the observer can best contribute to the ornithology of this area.

Aside from this region, there is another public area which is open: Notchview Reservation, approximately 3000 acres, owned and maintained by the Trustees of Reservations. It is located on Route 9 just 1-1/2 miles east of the junction of Routes 8A and 9 in Windsor. The extensive trails are well-maintained and maps are available. The acreage is primarily northern hardwoods with a good sampling of Hemlocks and Red Spruce. The Red Spruce grove near the parking area is the main attraction. Several pairs of Swainson's Thrushes and Golden-crowned Kinglets nest here as well as the other Red Spruce-loving species. A pair of Goshawks is resident. Otherwise, the birding is not very exciting, but in good weather the reservation offers miles of very enjoyable walking.

Most of the rest of the land in the Fobes Hill region is private property. Trespassing problems are usually minimal for individuals but not for groups. Obtain the Windsor U.S.G.S. Quadrangle map.

The following species have been recorded at Fobes Hill within an area that lies roughly within a three-mile radius. The list and status of species cover those proven to occur since 1970. The months of the year are indicated by using the first or the first two consonants (to avoid ambiguity) of each month. Though the four calendar seasons correspond roughly to the avifauna seasons at Fobes Hill, this correlation should not be interpreted too strictly.

Descriptive terms of status are as follows: Abundant-A, to be expected 75-100% of the time at the season or period indicated; Common-Cm, 50-75% of the time; Uncommon-Un, 25-50% of the time; Rare-R, less than 25% of the time. These terms all imply that the species concerned is to be expected on an annual basis. There is one more term used: Vagrant-V, not to be expected to occur annually. The terms of status are placed before the months concerned in each seasonal column. An asterisk (*) indicates that the species designated has nested since 1970.

There is overlap in the seasons for certain species because one aspect of a species' biology may overlap with another aspect, e.g., the breeding population may be nesting in an area while other individuals of that same species may be migrating through that area. Hence, dates of occurrence may overlap. This list of species' status is a guide only; it is greatly simplified and errors of omission and commission may be made unintentionally.

SPECIES NAME	SPRING	SUMMER/ BREEDING	FALL	WINTER	SPECIES NAME	SPRING	SUMMER/ BREEDING	FALL	WINTER
Loon, Cm.	R: My		R: S-O		Pheasant, R-n.	R: Ap-My	V: Jn	Un: S-O	
Grebe, P-b.	R: Ap-My		R: Ag-O		Rail, Virginia	V: Ap			
Heron, Gr.-blue	Un: Ap-My	R: Jn-Jy	Un: Ag-O		*Killdeer	Un: Mr-Ap	Un: Ap-Ag	Un: Ag-S	
Heron, Green	Un: My	Un: My-Ag	Un: Ag-O		*Woodcock, Am.	A: Mr-Ap	A: My-Jy	Un: Ag-O	
Heron, Bk-cr. Night	V: My				*Snake, Cm.	Un: Ap-My	Un: Ap-Jy	Un: Jy-O	
*Bittern, Am.	Un: Ap-My	Un: My-Ag	Un: Ag-O		*Sandp., Spotted	Un: My	Un: My-Ag	Un: Ag-O	
*Goose, Canada	Un: Mr-My	Un: Ap-Ag	Un: S-N		Sandp., Solitary	Un: My		Un: Jy-S	
Brant			V: O-N		Yellowlegs, Gr.			V: Ag	
Goose, Snow	R: Ap		R: O-N		Sandp., Least			R: Ag	
Goose, Blue (subsp.)	V: Ap				Gull, Herring	Un: Mr-My		Un: Ag-N	
*Mallard	Un: Mr-My	Un: Ap-Ag	Un: S-N		Gull, R-billed	Un: Mr-My		Un: O-N	
*Duck, Black	Un: Mr-My	Un: Ap-Ag	Cm: S-N		*Dove, Rock	Cm: Mr-My	Cm: Jn-Ag	Cm: S-N	R: D-F
*Teal, Green-w.	Un: Mr-My	R: My-Ag	Un: Ag-O		*Dove, Mourning	Cm: Mr-Ap	Cm: My-Ag	A: S-O	R: N-F
Teal, Blue-w.			V: S		*Cuckoo, b-b.	Un: My-Jn	Un: My-Ag	R: S-O	
*Duck, Wood	Un: Mr-My	Un: My-Ag	Un: Ag-O		Owl, Screech	R: Mr-My		R: O	
Duck, Ring-necked			V: O		Owl, Gr.-horned	Un: Mr-My	Un: My-Ag	Un: S-N	R: D-F
Scoter, White-w.			V: S		Owl, Snowy			V: N	
Scoter, Black			V: O		Owl, Barred	Un: Mr-My	Un: My-Ag	Un: S-N	R: D-F
Merganser, Hooded	R: Mr-My	R: My-Ag	R: Ag-O		Owl, Long-eared	V: Mr-Ap		V: O-N	
Vulture, Turkey	Un: Mr-My	Un: My-Ag	Un: Ag-O		Owl, Saw-whet	Un: Mr-Ap	R: Ap-Ag	Un: S-N	R: D-F
*Goshawk	R: Mr-Ap	R: Ap-Ag	R: S-N	R: D-F	Whip-poor-will	V: My			
Hawk, Sh.-shinned	Un: Mr-Ag	R: Ag	A: S-O	R: N	Nighthawk, Cm.	Un: My-Jn		Cm: Ag-S	
Hawk, Cooper's	R: Mr-My	R: Ag	Un: S-O	R: N	*Swift, Chimney	Un: Ap-My	Cm: My-Ag	Cm: Ag-S	
*Hawk, Red-tailed	Cm: Mr-Ap	Un: Ap-Ag	A: S-N	R: D-F	*Hummingbird, R-th.	Un: My	Un: My-Ag	Un: Ag-S	
*Hawk, Red-sh.	Un: Mr-Ap	Un: Ap-Ag	Un: S-N		*Kingfisher, Belted	Un: Mr-Ap	Un: My-Ag	Un: S-N	
*Hawk, Broad-winged	Cm: Ap-My	Un: Ap-Ag	A: S		*Flicker, Cm.	A: Ap-My	A: My-Ag	A: S-O	
Hawk, Rough-L.	R: Mr		R: N		*Woodp., Pileated	Un: Mr-My	R: Jn-Ag	Un: S-N	R: D-F
Eagle, Bald			R: S		*Sapsucker, Y-B.	Cm: Ap-My	Un: My-Ag	Un: S-O	
Marsh Hawk	Un: Mr-My		Un: Ag-N		*Woodp., Hairy	Cm: Mr-My	Cm: Jn-Ag	Cm: S-N	Un: D-F
Osprey	Un: Ap-My		Un: Ag-O		*Woodp., Downy	Cm: Mr-My	Cm: Jn-Ag	Cm: S-N	Un: D-F
Peregrine Falcon			V: O		*Kingbird, Eastern	Cm: My	A: Jn-Ag	Un: S	
Merlin	V: Ap		V: O		*Flycatcher, Gr.-c.	Un: My	Un: Jn-Ag	Un: S	
*Kestrel, Am.	Cm: Mr-My	Cm: Ap-Ag	Cm: Ag-O		*Flycatcher, Eastern	Un: Ap-My	Cm: My-Ag	Un: S-O	
*Grouse, Ruffed	Cm: Ap-My	Cm: My-Jy	Cm: Jy-N	Un: D-F	Flycatcher, Y-B.	R: My-Jn		R: Ag-S	

SPECIES NAME	SPRING	SUMMER/ BREEDING	FALL	WINTER	SPECIES NAME	SPRING	SUMMER/ BREEDING	FALL	WINTER
*Flycatcher, Alder	Cm: My-Jn	A: My-Ag	Un: S		Pipit, Water	R: Mr-My		Un: S-N	
*Flycatcher, Least	A: My	A: My-Ag	Cm: S		*Waxwing, Cedar	Un: Mr-My	A: My-Ag	A: Ag-O	Un: N
*Pewee, E. Wood	Cm: My	Cm: My-Ag	Un: S		Shrike, Northern	R: Mr-Ap	R: O-N	R: O-N	
*Flycatcher, O-S.	Un: My-Jn	Un: My-Jy	R: Ag-S		Shrike, Loggerhead			V: Ag	
Lark, Horned	R: Mr-Ap	R: O-N	R: O-N		*Starling	A: Mr-My	A: My-Ag	A: Ag-N	Cm: D-F
*Swallow, Tree	Un: Ap	A: My-Ag	Cm: S-O		*Vireo, Solitary	Un: Ap-My	Un: My-Ag	Un: Ag-O	
*Swallow, Bank	Un: Ap-My	R: My-Jy	Un: Ag-S		*Vireo, Red-eyed	A: My	A: My-Ag	Cm: S-O	
Swallow, Rough-w.	R: Ap-My				Vireo, Philadelphia			R: Ag-S	
*Swallow, Barn	A: Ap-My	A: My-Jy	A: Ag-S		*Warbler, Bl&W.	Cm: My	A: My-Ag	Cm: Ag-S	
*Swallow, Cliff	Un: Ap-My	Un: My-Jy	Un: Ag-S		Warbler, Tennessee	A: My	V: Jy	A: Ag-S	
*Jay, Blue	A: Ap-Jn	A: Ap-Ag	A: S-O	Cm: N-F	Warbler, Orange-cr.			V: O	
Jay, Gray			V: N		*Warbler, Nashville	Cm: My	Cm: My-Ag	Cm: S-O	
*Crow, Cm.	A: Mr-Ap	A: My-Ag	A: S-N	Un: D-F	Warbler, No. Parula	Un: My		R: S	
*Chickadee, B-c.	A: Mr-My	A: Jn-Ag	A: S-N	Cm: D-F	*Warbler, Yellow	Un: My	Un: My-Ag	Un: Ag-S	
Chickadee, Boreal			V: N		*Warbler, Magnolia	Cm: My	A: My-Ag	Cm: Ag-O	
Titmouse, Tufted	R: My		V: O-N		Warbler, Cape May	Un: My	A: My-Ag	A: Ag-O	
*Nuthatch, W-b.	Un: Mr-My	Un: My-Ag	Cm: S-O	Un: N-F	*Warbler, Pk-thr. Blue	Cm: My	A: My-Ag	Cm: S	
*Nuthatch, R-b.	Cm: Mr-My	Cm: My-Jy	Cm: Ag-N	Cm: D-F	*Warbler, Yellow-rpd.	A: Ap-My	A: My-Ag	A: S-N	
*Creeper, Brown	Cm: Mr-Ap	Cm: Ap-Jy	Un: Ag-N	R: D-F	*Warbler, Pk-thr. Grn.	Un: My	Un: My-Ag	Cm: Ag-O	
*Wren, House	Cm: My	A: My-Ag	Un: S-O		*Warbler, Blackburian	A: My	A: My-Ag	Un: Ag-S	
*Wren, Winter	Un: Ap-My	Un: My-Ag	Un: S-N		*Warbler, Ch.-sided	A: My	A: My-Ag	Cm: S	
Mockingbird	R: Ap-My		R: O-N		Warbler, Bay-br.	Un: My		A: Ag-S	
*Catbird, Gray	A: My	A: My-Ag	A: S-O		Warbler, Blackpoll	Un: My-Jn		A: S-O	
*Thrasher, Brown	Un: Ap-My	Un: My-Ag	Un: S-O		Warbler, Pine	V: Ap-My			
*Robin, Am.	A: Mr-My	A: Ap-Ag	A: S-N		Warbler, Prairie	V: My			
*Thrush, Wood	A: My	A: My-Ag	Cm: S		Warbler, Palm	Un: Ap-My			
*Thrush, Hermit	Cm: Ap-My	Un: My-Ag	Cm: S-O		*Ovenbird	A: My	A: My-Ag	Cm: S-O	
*Thrush, Swainson's	Cm: My	Un: Jn-Ag	A: S-O		*Waterthrush, No.	Un: My	Un: My-Jy	Un: Ag-S	
Thrush, Gr.-ch.	R: My-Jn		Un: S-O		*Waterthrush, Ia.	R: Ap-My	R: My-Jy		V: O
*Veery	A: My	A: My-Ag	A: Ag-S		Warbler, Conn.				
*Bluebird, E.	Un: Mr-My	Un: Ap-Ag	Un: S-O		Warbler, Mourning	R: My-Jn		R: Ag-S	
Gnatcatcher, Bl-gr.	V: My				*Yellowthroat, Cm.	A: My	A: My-Ag	A: S-O	
*Kinglet, G-cr.	Un: Mr-Ap	Un: Ap-Ag	Cm: S-N	Un: D-F	Warbler, Wilson's	Un: My		Un: Ag-S	
Kinglet, Ruby-cr.	Cm: Ap-My		Cm: S-N		*Warbler, Canada	Cm: My	Cm: My-Ag	Un: S	

SPECIES NAME	SPRING	SUMMER/ BREEDING	FALL	WINTER	SPECIES NAME	SPRING	SUMMER/ BREEDING	FALL	WINTER
*Redstart, Am.	A: My	A: My-Ag	Cm: S		*Sparrow, Song	A: Mr-Ap	A: My-Ag	A: Ag-N	R: D
*House Sparrow	A: Mr-My	A: My-Ag	A: S-N	Cm: D-F	Bunting, Snow	R: Mr	Un: O-N	R: D	
*Bobolink	A: My	A: My-Jy	A: Jy-S						
*Meadowlark, E.	Un: Mr-My	R: Ap-Ag	Un: S-O						
*Blackbird, R-w.	A: Mr-My	A: My-A	A: Ag-N						
*Oriole, No.	Cm: My	Cm: My-Ag	Cm: S						
Blackbird, Rusty	Cm: Mr-My		Cm: S-N						
*Grackle, Cm.	A: Mr-My	A: Ap-Ag	A: Ag-N						
*Cowbird, Br-h.	Cm: Mr-My	Cm: My-Ag	A: S-N	V: D-F					
*anager, Scarlet	Cm: My	A: My-Ag	Cm: S						
*Cardinal	Un: Mr-My	Un: Jn-Ag	Un: S-N	R: D-F					
*Grosbeak, Rose-br.	Cm: My	A: My-Ag	A: S						
*Bunting, Indigo	Cm: My-Jn	Cm: My-Ag	Un: S						
Grosbeak, Evening	A: Mr-My	V: Jn-Ag	Un: S	A: O-F					
*Finch, Purple	A: Mr-My	A: Ap-Ag	A: S-N	V: D-F					
Finch, House			V: O						
Grosbeak, Pine				R: N-Mr					
Redpoll, Cm.				R: D-Mr					
Siskin, Pine	Un: Mr-My		Un: C-N	Un: D-Mr.					
*Goldfinch, Am.	A: Mr-My	A: My-Ag	A: Ag-N						
Crossbill, Red	R: Mr-My	V: Jn-S	R: O-N	R: D-F					
Crossbill, White-w.	R: Mr-My	V: Jn-S	R: O-N	V: D-F					
*Towhee, Rufous-s.	A: My	A: My-Ag	A: Ag-O						
*Sparrow, Savannah	Un: Mr-My	Un: My-Ag	Un: Ag-O						
Sparrow, Vesper	R: Ap-My		R: O						
*Junco, Dark-eyed	A: Mr-My	Cm: My-Ag	A: S-N	R: D					
Sparrow, Tree	Cm: Mr-Ap		Cm: O-N	R: D-F					
*Sparrow, Chipping	A: Ap-My	A: My-Ag	Cm: S-O						
*Sparrow, Field	Cm: Ap-My	Cm: My-Ag	Cm: S-O						
Sparrow, White-cr.	Un: My		Cm: S-O						
*Sparrow, White-thr.	A: Mr-My	A: My-Ag	A: S-N	R: D					
Sparrow, Fox	Un: Mr-Ap		Un: O-N						
Sparrow, Lincoln's	R: My		Un: S-O						
*Sparrow, Swamp	A: Ap	A: Ap-Ag	A: Ag-N						



INTERESTED IN BECOMING A BETTER BIRDWATCHER?

For the past three years **Northeast Birding** has run a series of Birding Workshops in various parts of the U.S. This fall, we have scheduled our first for New England...at Monhegan Island, Maine, September 19-23 with an extension to September 25.

Birding Workshops were developed because we felt that with relatively small amounts of instruction, it was possible to sharply increase most birder's field skills and to demonstrate ways of looking at birds that accelerate the pace at which additional competence can be acquired.

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Cost for the Workshop will be about \$275 from Rockland, Maine. Cost includes lodging, food, transportation from Rockland and all workshop materials. Cost for the extension will be about \$100.

Workshop leaders will be Davis Finch and Will Russell, both experienced field ornithologists and teachers with previous Birding Workshop experience in New Jersey and Texas.

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DIFFERENTIATING POMARINE JAEGER FROM SOUTH POLAR SKUA

by Richard R. Veit, Boston

Photographs by Clayton Taylor, Moodus, Connecticut
and by Richard R. Veit

On an August, 1979, Brookline Bird Club boat trip to Stellwagen Bank, the stercorarid shown in Figures 1 and 3 was seen and identified by most observers as a South Polar Skua (Catharacta maccormickii). However, an excellent series of still color photographs of the bird, taken by Clayton Taylor of Moodus, Connecticut, indicates conclusively that the bird was a Pomarine Jaeger (Stercorarius pomarinus).

As the proper identification of skuas and jaegers is hardly a novel field problem, I would like to explain my identification of the bird in question, referring to two of Taylor's photographs of that bird (Figures 1 and 3), and to my photograph of a South Polar Skua.



Figure 1. Pomarine Jaeger

Devillers states that the South Polar Skua is "a small form with a slender and delicate bill" (Auk 94:417-29), which has given rise to the unwarranted belief that this skua is more likely to be confused with the Pomarine Jaeger than with any of the forms of Catharacta. Actually, the size difference between the skuas is a matter of millimeters; the South Polar Skua indisputably displays the robust structural characters of a skua rather than the comparatively streamlined characters of a jaeger.

The bird depicted in Figures 1 and 3 is definitely a Pomarine Jaeger because:

1. The sleek body is rather comparable in size to that of the Herring Gull it is harassing, not barrel-shaped as in the South Polar Skua illustrated in Figure 2. In comparison to the skua, the head is smaller and both the wings and bill are more slender. The rather ferocious attitude of the skua is simply not conveyed by the jaeger.



Figure 2. South Polar Skua

2. The bill is clearly bicolored - pale basally with a sharply delineated dark tip. This characteristic is typical of the immatures of the larger two jaeger species through the second winter plumage. The bill of all skuas is subtly bicolored during their first year of life, but the contrast between the blue-gray base and blackish tip is visible only at extremely close range in the field. Therefore, any stercorarid with a conspicuously bicolored bill is almost certainly a jaeger.
3. Figure 1 clearly illustrates the whitish uppertail coverts or bases to the rectrices of the bird. Most light-phase jaegers show this character, which is never present in Catharacta.
4. In Figure 1, the inner secondaries and flanks are finely barred transversely, a characteristic trait of Pomarine (and, to a certain extent, Parasitic) Jaegers in first winter plumage, and very different from the solidly dark corresponding feathers of Catharacta.

5. The relative amount of white at the base of the primaries is not a particularly useful criterion for distinguishing jaegers from skuas; this varies considerably in each species according to stage of molt and degree of abrasion of the wing coverts. Some observers commented on the presence of a pale nuchal collar; such a collar is present on virtually all jaegers, and is characteristic of some skua plumages.

Uniformly dark Pomarine Jaegers lacking elongated central rectrices can be distinguished from skuas mainly on the basis of proportions, as illustrated by the photographs. Once you are familiar with the distinctive appearance of skuas, mistaking a jaeger for a skua is quite unlikely, and the converse almost impossible.

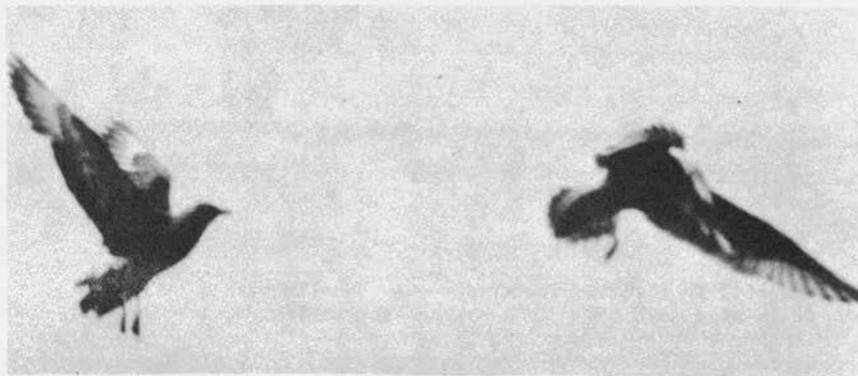


Figure 3. Pomarine Jaeger and Herring Gull

Combination List and Checklist for Birds of North America, James A. Tucker. River City Publishing, Austin, Texas, 1979, 32 pages, \$15.

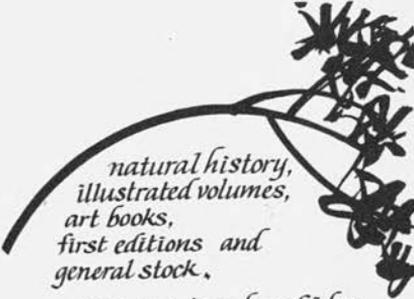
This "checklist" checklist is a listing of all the species that occur in North America north of the Mexican border. The nomenclature follows that of the American Birding Association (ABA) Checklist, 1975. Within its 32 pages the birder can record his or her life list, state list, year list, backyard list, area list, vacation list, and whatever other list one cares to keep. There is a space provided to record the date and place of the first observation as well as a seasonal data space to enter (in pencil for updating) early arrival or late departure dates for migratory species. The columns should have been headed as in the earlier editions: Fall early, Fall late, Spring early, Spring late, for better clarification.

This new edition comes in a very sturdy ring binder. I found that the binder is too big and bulky for the 32 pages; the older editions had a plastic ring binder that was much more flexible. This new binder was designed for a lot of use or abuse by the travelling birder. I would prefer to keep this binder at home and in good condition and record any additions after a birding trip.

The checklist has been updated. All the changes in nomenclature with the exception of the Common Flicker are included in parentheses next to the species. Future updates should include the change of Black-bellied and Fulvous Tree ducks to Black-bellied and Fulvous Whistling ducks.

The price of \$15 seems steep. I paid only \$2.65 for my 1966 edition; the fancy binder probably has a lot to do with the price. This book can be ordered from River City Publishing Company, P.O. Box 4471, Austin, Texas 78765. Include \$1.50 postage and handling charge.

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AN AVIAN FALLOUT AND THE FIRST STATE RECORDS
FOR BLACK-CHINNED HUMMINGBIRD AND LUCY'S WARBLER

by Richard S. Heil, S. Peabody

During the latter portion of November, 1979, a highly unusual pattern of continuous S-SW airflow resulted in a widespread avian fallout. Shortly thereafter the first Massachusetts occurrence of Black-chinned Hummingbird (*Archilochus alexandri*) and Lucy's Warbler (*Vermivora luciae*) was established, as were a host of late records for many other species. The point of this article will be to project a theory of a displacement, or "blowback," originating far to our southwest. No attempt will be made to relate a precise cause and effect of how and why the fallout occurred, other than to say that a reverse migration aided by a strong southwest airflow after the birds had been carried off course by unfavorable winds is a possible explanation. Rather, I intend to merely report on the unusual weather pattern that preceded the fallout, present evidence that would suggest a common origin for most of the species involved, and give an account of the details on several of the important sightings that resulted.

According to R.E.Lautzenheiser, Massachusetts state climatologist, "the period 23-28 November brought a mini-summer averaging 17° above normal and daily highs averaging 67°. This was the longest stretch so warm so late in the year on record." From November 22-28, the wind blew continuously from the S-SW with rather high average wind speeds. The 26th was particularly windy with an average wind of 17.8 mph, and a peak gust of 52 mph. This was not a localized condition, as nearly the entire eastern portion of the continent was under the same massive southwest airflow. This weather pattern was abruptly halted in our area on November 29, when the winds turned to the NW and the daily high temperatures dropped 20°.

	<u>Max. Temp. (°F)</u>	<u>Average Wind Speed</u>	<u>Wind Peak</u>	<u>Dir.</u>
Nov. 15	45	12.7	28	W
16	46	19.4	45	NW
17	52	14.0	37	W
18	55	8.4	18	NW
19	48	7.9	16	E
20	59	9.2	23	SW
21	57	9.6	29	N
22	55	8.9	21	SW
23	69	9.0	23	SW
24	70	10.5	22	SW
25	70	7.0	16	SW
26	66	17.8	52	S
27	58	16.2	45	W
28	66	16.1	37	SW
29	46	16.1	36	NW
30	41	14.0	32	W

TABLE 1: Summary of local climatological data 15-30 November 1979
National Weather Service (Logan Airport Station)

There is considerable precedence during November for blownback migrants to appear. Barn Swallows in particular are often easier to find after southerly winds in November than in October. Griscom and Snyder (Birds of Massachusetts, 1955) cite a November 29, 1953, record of a Bank Swallow at Martha's Vineyard, "immediately following a violent southerly storm." A Variegated Flycatcher was present at Biddeford Pool, Maine, from 5 to 11 November 1977. The northerly post-breeding migration of this South American flycatcher was probably the most important factor in its appearance.

Table 2 lists twelve species recorded in Massachusetts during and shortly after the warm air flow that prevailed from November 22-28. Three on the list, the Black-chinned Hummingbird, Ash-throated Flycatcher, and Lucy's Warbler, share virtually the same winter range: from extreme southwestern United States south through western Mexico. The general area of sympatry for the winter ranges of six of the remaining nine species listed is also western Mexico.

		<u>Location</u>	<u>Observers</u>
Nov.25	Black-chinned Hummingbird	Cohasset	W.Petersen,B.Sorrie
Nov.30	Ash-throated Flycatcher	Belmont	L.Taylor#
Nov.30	Bank Swallow	Manomet	<u>fide</u> K.Anderson
Dec.1	Black-and-white Warbler	Concord	R.Forster
Dec.1	Lucy's Warbler	Ipswich	R.Heil#
Dec.1	Yellow Warbler	Ipswich	R.Heil#
Dec.1	Cape May Warbler	Ipswich	R.Heil#
beg.Dec.	Ovenbird (2)	Manomet	J.VanOs
Dec.8	Wilson's Warbler	Concord	R.Walton
Dec.10	Northern Parula Warbler	Concord	F.Bemis
Dec.10	Prairie Warbler	Nantucket	R.Veit
Dec.13	Blackpoll Warbler	Eastham	C.Goodrich

TABLE 2: Accidental and late sight records from Massachusetts
23 November - 13 December 1979 (# = additional observers)

The fallout was not limited to Massachusetts: during the same period there was an Ash-throated Flycatcher in Maine, and two were found in Rhode Island, where a strikingly late Olive-sided Flycatcher was reported November 23. Another chiefly Mexican species, a Painted Redstart, present at a Dansville, New York, feeder throughout December was almost certainly associated with the fallout in New England. A lack of snow cover and rather mild temperatures allowed for continued late sightings for many species on into early January, particularly on area Christmas Bird Counts.

The Ipswich Yellow Warbler, December 1-2, was a bright yellow individual. Most late records of Yellow Warbler in Massachusetts have proven to be of either the grayer Newfoundland race annicola, or the greener Alaskan race rubiginosa. That the Ipswich bird was clearly neither of these two races would seem to add further to the "blowback" theory of a migrant or wintering eastern Yellow Warbler displaced from Mexico or Central America. The Ipswich sighting is believed to be the latest recorded occurrence for Massachusetts, as was the Manomet Bank Swallow November 30, and the Eastham Blackpoll Warbler December 13.

The Black-chinned Hummingbird

The discovery by G.Pride November 25 of a female immature-plumaged hummingbird at his Cohasset greenhouse prompted a later investigation by W.Petersen and B.Sorrie. The very late date and the understood difficulties in identifying female immature-plumaged Archilochus hummingbirds in the field warranted its capture. Examined and measured in the hand, it was tentatively identified as a Black-chinned Hummingbird, and expert confirmation of the specimen by A.Phillips was recently received. The Black-chinned Hummingbird winters from southern California south throughout western Mexico, and east with some regularity along the Gulf Coast from Texas to Florida. There is but one record for the Northeast, a bird near Antigonish, Nova Scotia, May 30, 1964.

The Lucy's Warbler

While counting waterfowl at Clark's Pond on Great Neck, Ipswich the morning of December 1, I was surprised to see a Cape May Warbler in the adjacent thickets. A short time later my squeaking produced a very small blue-gray bird with a prominent eye-ring which I initially thought was a gnatcatcher. The bird's shorter tail, lacking white edges or tail spots, general blue-gray color above, paler gray below, whitish eye-ring, prominent brick-red rump, and a small, much more obscured brick-red crown spot soon identified it as a Lucy's Warbler. Seen off and on throughout the day, the bird was viewed by at least thirty observers. At times it was seen being pursued by the aforementioned Yellow Warbler. Scores of birders were unable to locate the Lucy's on the next and subsequent days. Neither the sex or age of the bird could safely be determined since all ages and sexes are quite alike. Even the crown patch, which is most prominent in adult males, least in immatures, becomes obscured in both adult males and females in winter by gray tips and margins to the crown feathers. Although it is a proven fact that the majority of fall western vagrants in the east are birds of the year, to label categorically all such records as immatures when such cannot be readily ascertained by plumage, is only conjecture.



Lucy's Warbler in Ipswich, December 1, 1979
Photographed by Mark Kasprzyk

There are virtually no extralimital records of Lucy's Warbler east of the breeding range, the only record for the "east" being that of an adult collected at Triumph, Louisiana, December 30, 1959. Apparently Lucy's Warblers depart for their winter range immediately after the nesting season and become generally difficult to find on the breeding areas after the end of August. West of the desert in south-coastal California, it is a rare straggler from September to mid-November. This smallest of the American Wood Warblers (Parulidae) nests in mesquite thickets, willows, cottonwoods and along desert streams of the Lower Sonoran deserts, from southeastern Nevada, southwest Utah, southeast California east to central Arizona, southcentral New Mexico, south to northwest Mexico, and has nested as far east as El Paso, Texas. Lucy's Warblers normally winter along the west coast of Mexico from Sinaloa to western Guerrero.

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THE WINTER SEASON DECEMBER 1979 — FEBRUARY 1980



by Richard S. Heil and Robert H. Stymeist

December was warm, sunny and dry in Boston. The temperature averaged 36.7°, 3.7° above normal. The high of 68° on the 12th tied the record for that date set in 1911. The low mark was 5° on the 19th, a dramatic drop of 20° in a very short time span. Precipitation totaled 1.42 inches, 2.82 inches under normal and the least for December since 1.03 inches in 1955. This was the seventh driest December in 109 years of record. Snowfall was but 2.0 inches, 6.0 inches less than average. Bare ground prevailed most of the month.

January temperatures averaged 29.4°; no records were broken though a very mild interval on the 11-12th brought the month's high of 57° on the 12th; the low temperature was 11° on the 31st. Precipitation totaled only 0.74 inch, 2.95 inches under normal and 0.15 inch less than the previous driest January in 110 years of official record, just 10 years ago, in 1970. This January starkly contrasted to last year's which set a new wet mark of 10.55 inches. Snowfall was but 0.4 inch, 12.3 inches under average and 10.1 less than last year. In 90 years of snowfall records, this was the second least, the least being 0.3 inch in 1913. The snowfall total for the season so far now stands at 1.6 inches, a new record low and 19.2 inches less than average. Freezing rain during the morning of the 17th produced a smooth glare of ice on Boston's south side down as far as Plymouth causing an almost complete traffic stoppage, many accidents, and many injuries from pedestrian falls. In the evening of the same day, glazing of somewhat lesser consequence covered a wider area in eastern Massachusetts. It continued into the morning of the 18th, again producing hazardous conditions.

February was cold, very sunny, and dry. The temperature averaged 27.9°. 2.5° below normal. A brief warming brought a high of 53° on the 21st; the low mark was 9° on the 1st. Precipitation totaled only 0.88 inch, 2.66 inches under normal and the least for February since 0.66 inch in 1901. Snowfall was but 6.5 inches, 5.5 inches under average. The most in any day was 5.3 inches on the 16th. The ground was bare most of the month. The seasonal total to date is 9.1 inches; this is the third least of record in 90 seasons and the least since 8.9 inches set in 1972-73.

In the following records we have used Christmas Bird Count (CBC) data that reflects the higher individual counts for a particular species. In the next issue of Bird Observer we will print the results of the entire eastern Massachusetts Christmas Count.

LOONS THROUGH HERONS

A winter plumaged Arctic Loon at the north end of Plum Island highlighted the Newburyport CBC December 23. It was reported seen off and on as late as January 27. In addition to the Plum Island Western Grebe that continued from November into late January, a second grebe appeared at Siasconset, Nantucket, December 28-29. The multitudes of Sand Lance (Ammodytes) present in the shallow waters around Cape Cod throughout the fall and into December were apparently responsible for the 20 Manx Shearwaters lingering at Race Point, Provincetown, until December 1. Four were sighted there as late as December 11 and a single manx was well observed at Rockport December 8. A Cory's Shearwater seen from North Beach, Chatham, December 16 ties a 1973 record on the same date at Sandy Neck, Barnstable, as a late record for local waters. Herons, like virtually every other group of birds this winter, had more than its share of lingerers. Four separate Green Herons, the latest continuing to January 1 at Sudbury, were the most in any December on record (cf. December totals 1973-79: 0,0,0,1,0,2,4). An immature Little Blue Heron observed in Scituate December 31 was the second mid-winter Massachusetts record. A Little Blue Heron at Salt Pond, Eastham, also an immature, present December through February 18, 1975 was the first.

Common Loon:

12/23,29	Newburyport, Nantucket	60, 103	CBC
1/6,13	Scusset, Cape Ann	12, 16	SSBC, R.Forster
2/17,24	M.V., Salisbury	250, 12	V.Laux, BBC

Arctic Loon:

12/23-1/3,27	P.I.-Salisbury	1	W.Petersen+v.o.,G.Soucy#
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Excellent details on this report from several observers.

Red-throated Loon:			
12/15	Westport	27	CBC
12/23,29	Newburyport, Nantucket	9, 260	CBC
1/3,12	P.I., Salisbury	23, 2	D.Brown#, O.Komar#
2/9,24	P.I., Winthrop	1, 3	W.Petersen, BBC
Red-necked Grebe:			
12/23,27	Newburyport, Plymouth	16, 14	CBC
12/29,1/1	Nantucket, Wachusett Res.	19, 3	CBC, B.Blodget
1/1	Cape Ann, Marblehead	27, 12	R.Heil, C.Blasczyk
1/13,29	P.I.-Salisbury, Manomet Pt.	18, 27	R.Heil, R.Higginbotham
2/20	Manomet, N.Scituate	15+, 6	MBO staff, S.+R.Higginbotham
2/23	Cape Ann, Dennis	37, 17	R.Forster, B.Nikula
Horned Grebe:			
12/16,23	Greater Boston, Newbpt.	52, 105	CBC
12/29,31	Nantucket, Tuckernuck	17, 0	CBC
1/1	Wachusett Reservoir	9	B.Blodget
1/1,13	P.I., Cape Ann	45, 32	J.Baird#, R.Forster
2/17,24	Cape Ann, P.I.	36, 25	BBC
Western Grebe:			
12/1-7;1/12-27	P.I.; P.I.-Salisbury	1; 1	BEC#; H.Wiggin, J.Nove#
12/28-29	Siasconset-Nantucket	1	P.Buckley#
Excellent details on Nantucket bird; P.I. bird continued from November.			
Pied-billed Grebe:			
12/9,30	Lakeville, Concord	20, 4	J.Kricher, CBC
12/16,29	Cape Cod, Nantucket	46, 24	CBC
1/1	Wachusett Res.	1	B.Blodget
1/22,29	Lakeville, Manomet	3, 2	S.+R.Higginbotham
2/3,19	Lakeville, Plymouth	3, 1	BBC, D.Skiels
Northern Fulmar:			
12/5	NE peak Georges Bank	250-300 (3-4 dk.ph.)	R.Veit
12/17	10-12 mi. NE of P'town	40+ double lt.ph.	R.Veit
Cory's Shearwater:			
12/16	North Beach	1	C.Goodrich + J.Harris
Greater Shearwater:			
12/5,7	NE peak Georges Bank	6, 3	R.Veit, MBO staff
12/16	N edge Georges Bank	1	MBO staff
Sooty Shearwater:			
12/5,8	NE peak Geo. Bank, S edge Nant.Shoals	1, 2	R.Veit
Manx Shearwater:			
12/1,11	P'town (Race Pt.)	20, 4	B.Nikula#, S.+R.Higginbotham
12/8	Rockport (A.P.)	1	K.Able, R.Ferren
Gannet:			
12/15,29	Orleans (N.Beach), Nant.	1500, 107	CBC
Great Cormorant:			
12/1,1/6	Cape Ann, Squantum	50, 86	BBC
2/17,24	Hull, Winthrop	280, 60	W.Petersen#, C.Jackson#
Double-crested Cormorant:			
12/3,16	Bourne, S.Boston	1, 3	R.Veit, D.Brown
12/27	Plymouth	2	CBC
2/9,25-27	Bourne, Somerville(Mystic R.)	2 imm., 1	T.Lloyd-Evans, J.Berry
Great Blue Heron:			
12/15,16	Westport, Cape Cod	20, 57	CBC
12/29, 1/1	Nantucket, Monomoy	41, 30.	CBC, P.Trull#
1/12,19	Framingham, Westport	3, 9	R.Forster#, R.Heil#
1/27, thr.Feb.	Falmouth, 8 locales	15, 9 inds.	R.Stymeist#, v.o.
Green Heron:			
12/15-18,16	Nantucket, Cambridge (Mt.A.)	1, 1	R.Veit#, L.Crofoot#
12/29;30-1/1	M.V.; Sudbury	1; 1	P.Trull#; CBC, R.Forster#
Little Blue Heron:			
12/31	Scituate	1 imm.	W.Petersen
Great Egret:			
12/15	E.Falmouth	1	R.Heil + B.Nikula
Snowy Egret:			
12/1	Cape Ann, Ipswich	1, 2	BBC, R.Heil
12/9	Chatham	1	B.Nikula
Black-crowned Night Heron:			
12/19,31	Nantucket, Tuckernuck	8, 8	CBC
1/6, 17	Squantum, Nantucket	3, 4	D.Brown, R.Veit
2/9	Plymouth, Bourne	5, 1	SSEC
2/11,17	Falmouth, Quincy	1, 1	S.Higginbotham#, D.Brown

American Bittern:			
thr. Dec.	8 locales	12 inds.	v.o.
1/1-27	7 locales	7 inds.	v.o.
2/9	P.I.	1	W.Petersen#
2/16,17-18	M.V., Eastham (F.H.)	1, 1	V.Laux, B.Nikula

WATERFOWL

Most semi-hardy dabblers appeared to have had an easy time this winter with rather mild temperatures and generally ice-free conditions throughout January on most of the region's brackish and salt marshes. The following table shows the January totals as reported in Bird Observer, 1973-80, and the number of sites (in parenthesis) of five species of semi-hardy dabbling ducks in eastern Massachusetts

	1973		1974		1975		1976		1977		1978		1979		1980	
	mild	mod.	mild	mod.	mild	mod.	cold	cold	cold	cold	mild	mild	mild	mild	mild	mild
Gadwall	2(2)	55(3)	2(1)	5(4)	2(1)	5(4)	2(1)	37(3)	56(3)	65(5)						
Pintail	6(3)	47(3)	64(9)	12(9)	35	80(1)	25(2)	157(2)								
Green-winged Teal	5(4)	26(1)	33(4)	3(2)	0	0	0	14(3)								
American Wigeon	75(2)	75(3)	145(6)	42(1)	-	78(1)	62(2)	58(4)								
Northern Shoveler	12(2)	4(2)	3(2)	8(2)	0	0	1	0								

Examination of the table reveals that this winter's January totals for Gadwall and Pintail are the highest since at least 1973 and the highest for Green-winged Teal since 1975. The increase of wintering Gadwalls is most likely a result of that species' local increase as a breeder rather than the mildness of a given winter. Green-winged Teal and Northern Shoveler seem to be the two whose winter to winter status is most affected by the weather; both went unrecorded during the harsh Januarys of 1977 and 1978. The January populations of American Wigeon seem to be the most stable over the eight year period. Snow Goose reports totaled 44 individuals during December including a late flock of 32 at Plum Island December 9. The traditional Oldsquaw concentration around Nantucket was estimated at 65,080 birds December 29. King Eiders were scarce with only eight reported, five in female plumage December 7-February 13. The annual November Fulvous Whistling Ducks appeared a month late this year: two in Uxbridge December 8-10 and four (two shot) on Nantucket December 14.

Mute Swan:																
12/5,15	Nantucket, Westport		97, 83													
thr. Feb.	Manchester		4													
Whistling Swan:																
12/5-30,12-15	Nantucket, Acoaxet		1, max.12													
12/27	S.Yarmouth		1													
Canada Goose:																
12/15	Westport		2260													
12/23,30	Newburyport, Concord		2380, 1649													
2/3	Framingham		634													
Brant:																
12/9,29	Wollaston		700+, 300													
12/16, 22	Cape Cod, Quincy		2309, 1623													
1/19, 23	Plymouth, Quincy		500, 1000													
2/17,23	Quincy, Duxbury		1078, 700+													
Snow Goose:																
12/9,23-thr. Jan.	P.I., Ipswich		32, 2													
12/15	Concord, Acoaxet		1, 1													
12/16	Cape Ann, Eastham		2, 2													
12/27,1/15-2/9	Manomet, Falmouth		2, 2-1													
"Blue Goose:"																
12/7	Nantucket		1 ad.													
Mallard:																
12/16	Greater Boston		1682													
Black Duck:																
12/16,23	Greater Boston, Newbpt.		1802, 6850													
1/13,19	Newbpt.Harbor, Parker R.NWR		800, 3059													
2/17	Newbpt., Quincy		1750, 754													
Gadwall:																
12/23,27	Newburyport, Plymouth		47, 19													
1/6,13	Bourne, P.I.		20, 8													
1/13,15	Gloucester, Plymouth		14, 13													
2/3,10	Salem, Cohasset		10, 9													
2/23	Gloucester (E.Pt.)		17													

Pintail:			
thr.Dec.,15	Yarmouth, Westport	max.145, 24	v.o., CBC
12/19,23	Nantucket, Newburyport	4, 70	R.Veit, CBC
thr.Jan.,13	Yarmouth, P.I.	max.125, 32	fide B.Nikula,R.Heil
2/1,2	P.I., Yarmouth	2, 25	J.Grugan, B.Nikula
Green-winged Teal:			
12/2,15	Ipswich, Westport	35-40, 16	B.Cassie#, CBC
12/16,1/6	E.Boston, E.Orleans	18, 6	CBC, W.Petersen
1/20,25	P.I., Wellesley	6, 2	G.Soucy, C.Ewer
2/2,24	Mattapoisett, E.Orleans	2, 19	G.Mock,W.Petersen
Blue-winged Teal: (no details)			
12/9	P.I.	2	P.Arrigo
European Wigeon:			
12/1-16,15	Gloucester, E.Falmouth	1 imm. m., 1 f.	v.o., B.Nikula#
12/19,2/3	Nantucket, New Bedford	1 imm. m., 1 m.	R.Veit, H.Robbins#
American Wigeon:			
12/9,15	Belmont, Westport	97, 122	R.Stymeist, CBC
12/16,29	Cape Ann, Nantucket	34, 230	CBC
1/5,13-29	Belmont, P.I. basin	40, 1	BBC, R.Heil
1/20,29	Cohasset, Plymouth	6, 11	R.Forster,R.Higginbotham
Northern Shoveler:			
12/9,15	P.I.	8, 1	G.Gove, M.McClellan
Wood Duck:			
12/4,11	S.Hanson, 90 mi. E of Nant.	4, 1	W.Petersen, MBO staff
12/23,29	Topsfield, Nantucket	1, 1	CBC
1/1	Hingham	1	S.Osborne
Redhead:			
12/10	Braintree, Nantucket	8, 300	S.Higginbotham,R.Veit#
12/27,29	Plymouth, Nantucket	7, 140	CBC
1/1,6	Braintree, Falmouth	1, 50	S.Higginbotham, BBC
1/15,2/2	Orleans, Falmouth	2, 220	C.Blaszczak, G.Soucy#
Ring-necked Duck:			
12/9,29	Braintree, Nantucket	65, 74	S.Higginbotham, CBC
12/16	Chatham, Eastham	30, 49	CBC
12/30,thr.Jan.	Concord, Framingham	20, 3	CBC, K.Hamilton
1/1,13	Littleton, Wachusett Res.	15, 13	J.Baird#, B.Blodget
1/19,2/25	Plymouth, Lakeville	40, 13	G.Gove, K.Anderson
Canvasback:			
12/9,15	Winthrop, Westport	230, 400	BBC, CBC
12/16,29	Brewster, Nantucket	553, 160	CBC
1/6,15	Fairhaven, Orleans	150, 15	SSBC, C.Blaszczak
1/20,27	Lakeville, Falmouth	15, 225	W.Petersen, R.Veit#
2/2,9	Acoaxet, Falmouth	250,600	F.Hamlen#, B.Nikula#
2/17,25	Quincy, Lakeville	9, 12	D.Brown, K.Anderson
Greater Scaup:			
12/16,22	GreaterBoston, Quincy	2242, 2426	CBC
1/6,20	Hull, Newburyport	1200, 25	R.Stymeist, BBC
2/3	New Bedford, Boston	1000, 600	F.Hamlen, BBC
2/17	Nahant-Lynn	1200	R.Stymeist#
Lesser Scaup:			
12/1,9	Newburyport, Lakeville	3, 1	M.Kasprzyk, J.Kricher
12/16,29	Cohasset, Nantucket	1,14	E.Cutler, R.Veit
1/3-15	Boston	5	H.Wiggin#
1/5,27	Jamaica Plain, Falmouth	2, 3	R.Stymeist, R.Veit#
Common Goldeneye:			
12/15,29	Westport, Nantucket	636, 1240	CBC
1/13,27	Wachusett Res., Newbpt.	44, 210	B.Blodget, BBC
2/23,24	Newburyport, N.Chatham	1500+, 600+	R.Heil, W.Petersen
Barrow's Goldeneye:			
12/23,26-27	Newburyport, Plymouth	2, max.4 m.	W.Petersen#
12/ 9,9-23	Nant., 5 other locales	6, singles	CBC, v.o.
1/1	Magnolia, Plymouth	4(1 m.,3 f.), 2	D.Brown, W.Petersen
thr.Jan,12	Newburyport, Chatham	max. 2, 1	v.o., B.Nikula#
1/13,thr.Jan.	Plymouth, Newburyport	4 m.,max.5(3 m.,2 f.)	J.Kricher#,H.Parker#
thr.Feb.	5 other locales	5-6 inds.	v.o.
Bufflehead:			
12/16,29	Greater Boston, Nant.	594, 530	CBC
1/27,2/17	Newburyport	450, 500	BBC, M.Kasprzyk
Oldsquaw:			
12/29,31	Nantucket, Tuckernuck	65,080, 17,600	CBC
12/15,2/23	Worcester, Newburyport	1, 400	CBC, R.Heil

Harlequin Duck:			
12/2,16	Gloucester, Orleans	1 m., 1	v.o., CBC
12/21,29	Nantucket, Marshfield	pr., 1	R.Veit#, CBC
12/29,1/1	Magnolia, Gloucester	3(1 m.,2 f.), pr.	O.Komar, R.Heil
thr.Jan.,2/23	Magnolia	3(1 m.,2 f.)	v.o.
thr.Feb.,24	E.Orleans, M.V.	max.4, 5	v.o. V.Laux
Common Eider:			
12/2,9	Winthrop, Plymouth	25(1800 on 11/25), 10000+	R.Stymeist,W.Petersen#
12/16,29	Cape Cod, Nantucket	22256, 8815	CBC, R.Veit
1/6,19	Barnstable, Plymouth	5000+, 4000	BBC, G.Gove
2/9,24	Plymouth, Winthrop	12000, 2100	SSBC, BBC
King Eider:			
12/7,30	Plymouth, Nantucket	1 m. shot, 1 imm.m.	fide K.Anderson,R.Heil#
1/6	P.I., Hull	1 f., 1 f.	W.Drummond#,R.Stymeist#
1/5,12	Rockport(A.P.), Gloucester	1 f., 1 imm. m.	C.Blaszcak, H.Wiggin#
1/27,2/13	Cohasset, Rockport	1 f., 1 f.	H.Cutler, R.Bowen#
White-winged Scoter:			
12/24,29	Nahant, Nantucket	350, 512	S.Zendeh, CBC
1/6,13	Barnstable, P.I.	1500, 300	BBC, J.Grugan#
Surf Scoter:			
12/29,1/6	Nantucket, Barnstable	96, 200	CBC, BBC
2/3	New Bedford, Cape Ann	75, 10	F.Hamlen, BBC
Black Scoter:			
12/29, 1/6	Nantucket, Barnstable	51, 100	CBC, BBC
1/13,19	Scituate, Clinton	25, 1 f.	SSBC, H.Merriman
Ruddy Duck:			
12/16	Greater Boston, Eastham	66, 38	CBC
12/9,29	Framingham, Nantucket	25, 10	E.Morrier, CBC
1/3,19	Boston, Acoaxet	40, 2	M.Argue, R.Heil
Hooded Merganser:			
12/15,16	E.Falmouth, Eastham	120, 66	R.Heil#, CBC
12/16,22	Winchester, Hingham	24, 4	G.Gove, N.Osborne
1/1, 6	Framingham, Bourne	5, 50	R.Forster, SSBC
1/13, 22	Wachusett Res., Lakeville	6, 18	B.Blodget,S.+R.Higginbotham
2/2,3	Cohasset, Salem	7, 3	B.Litchfield,W.Petersen#
2/9	Falmouth	62	B.Nikula#
Common Merganser:			
12/15,16	Worcester, Greater Boston	307, 87	CBC
12/23,27	Newburyport, Plymouth	178, 336	CBC
1/1,2	Framingham, Winchester	22, 51	R.Forster, G.Gove
1/19	Merrimack River	145	R.Stymeist#
1/22,31	Lakeville, Eastham	55, 45+	S.Higginbotham,M.McClellan
2/9	Merrimack R.(Amesbury-Groveland)	245	R.Stymeist+D.Arvidson
Red-breasted Merganser:			
12/15,16	Westport, Greater Boston	702, 892	CBC
12/22,29	Quincy, Nantucket	2193, 3376	CBC
1/13	Salisbury	500	R.Heil
2/2,24	Boston, Winthrop	84, 150	BBC
Fulvous Whistling Duck:			
12/8-10,14	Uxbridge, Nantucket	2, (4 shot)	FBC, E.Andrews#

HAWKS THROUGH RAILS

Perhaps not too surprising in light of the wide range of lingering species this winter were single Turkey Vultures at Ipswich December 29 and Nantucket January 7-8. After nearly a twenty-five year absence, Bald Eagles were reported regularly at their former wintering haunts along the Merrimack River. The first immature eagle appeared on the Newburyport CBC December 23, but perhaps as many as five immatures were present during February. The annual eagle count at the Quabbin Reservoir recorded a Golden Eagle and 22 Bald Eagles of unreported ages January 11. According to Jack Swedberg of Massachusetts Fish and Wildlife, this is the highest count of eagles at Quabbin in at least fifteen years. Elsewhere, 5 additional eagles, all immatures, were noted at four coastal sites. Two Gyrfalcons, one gray and one "dark", were reported from the Newburyport area marshes from late January through mid-February. An unprecedented 26 Merlins were noted December through February. Four inland reports, one as far north as Amesbury on February 24, were especially unusual. A Sora Rail at South Peabody throughout February was unique this winter.

Turkey Vulture:

12/29,1/7-8	Ipswich, Nantucket	1, 1	E.Monnely, E.Andrews#
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Goshawk:			
12/1,13	Manchester	1, 1	F.Burnett
12/15,16	Norfolk, Winchester	1, 1	CBC
12/22,30	Braintree, Concord	1, 2	CBC
1/13,20	Newburyport, Lakeville	1 ad., 1 ad.	P.Roberts, W.Petersen
1/25,30	Hopkinton, Lincoln	1 ad., 1 imm.	D.Resmick, W.Hanley#
2/16,20	Oakham, W.Newbury	1 ad., 1 ad.	T.Raymond, fide R.Heil
2/25	Middleboro	1 ad.	K.Anderson
Sharp-shinned Hawk:			
12/16,29	Cape Cod, Nantucket	13, 7	CBC
12/23,30	Newburyport, Concord	2, 5	CBC
thr.Jan.	11 locales	singles	v.o.
thr.Feb.	6 locales	7 inds.	v.o.
Cooper's Hawk:			
12/11,31	Eastham, E.Orleans	1, 1	C.Goodrich, P.Trull#
12/24,31	Newburyport, Concord	1, 1	G.Gove, D.Southall
1/13,2/15	Newburyport, Barnstable	1 imm.f., 1 ad.	C.Leahy, A.Morgan
2/20,25	Rowley	1 ad., 1	fide R.Heil, K.Blanchard
2/20,25	Chatham, Rochester	1 imm., 1	B.Nikula#, K.Anderson
Red-tailed Hawk:			
12/16,23	Greater Boston, Newbpt.	16, 28	CBC
12/29,30	Nantucket, Concord	25, 49	CBC
1/27,26	Shelburne, Warren	6, 1(75% leucistic)	BBC, R.Forster
2/17,23	P.I.-Salisbury, Dover	18, 6	R.Heil#, BBC
Red-shouldered Hawk:			
12/15-22,31	E.Orleans, Brewster	1 ad., 1 imm.	R.Prescott#, B.Nikula#
12/15,31	Franklin, Fairhaven	1, 1	CBC, K.Anderson#
12/22,1/1	Quincy, Medfield	1, 1	D.Brown, H.Robbins
1/1,6	Boxford, Fairhaven	1 ad., 1	R.Stymeist, SSB
1/11,25	Wellesley	1, 1	fide R.Forster, C.Ewer
thr.Jan.,2/3	Orleans	2 ads., 1 imm.	C.Goodrich#, B.Nikula
2/3,6	Bridgewater, Dartmouth	1, 1	D.Davis, F.Bouchard
2/22,25	Wellesley, Peabody	1, 1 ad.	C.Ewer, B.Cassie
Rough-legged Hawk:			
12/2,23	M.V., Newburyport	8, 6	V.Laux#, CBC
12/24,31	Saugus, Orleans	2, 3	S.Zendeh, P.Trull#
12/29,31	Nantucket, Tuckernuck	4, 3	CBC
1/1	Salisbury, P.I.	2, 2	R.Emery#, M.Argue#
1/1	Marshfield, Chatham	4, 3	W.Petersen, C.Goodrich
thr.Feb.	5 locales	5-6 inds.	v.o.
Golden Eagle:			
12/14,1/11	Quabbin Reservoir	1, 1	J.Swedberg#
Bald Eagle:			
12/3,14	Rockport, Quabbin	1 imm., 4	M.McClellan, J.Swedberg
12/23,31	W.Newbury, Tyngsboro	1 imm., 1 imm.	R.Veit#, G.Hunt
1/1,13 on	Monomoy, W.Newbury	1 imm., 1 imm.	D.Briggs, v.o.
1/11,thr.Feb.	Quabbin	max. 22, max. 10	J.Swedberg + v.o.
thr.Feb.	Merrimack R.(Amesbury-Haverhill)	max.3-5 imms.	v.o.
thr.Feb.,10	Outer Cape, M.V.	2 imm., 1 imm.	W.Bailey#, V.Laux
Marsh Hawk:			
12/1,15	P.I., Westport	4, 4	BBC, CBC
12/29,31	Nantucket, Tuckernuck	34, 5	CBC
1/13,2/18	P.I.-Salisbury	max.5,max.9(3 ad.m., 6 f./imm.)	R.Heil#
2/3,9	Bridgewater, Bourne	1, 1	BBC, SSB
Gyr Falcon: (no details)			
1/27,29;2/3	Salisbury; Newburyport	1; 1 gray	G.Soucy#; M.Argue+H.Wiggin
2/17	P.I.	1 dark	L.Jodrey, G.Soucy
Peregrine Falcon:			
Dec.-Feb.	downtown Boston	1 ad.	v.o.
12/14,31	Squantum, Tuckernuck	1, 1 sub-ad.	T.Raymond, M.Litchfield
2/20	Monomoy	1 imm.	P.Trull + B.Nikula
Merlin:			
12/9,23	GMNWR, Taunton-Middleboro	1, 1	fide R.Forster, CBC
12/16,29	Cape Cod, Nantucket	5, 5	CBC
thr.Dec.,1/1-3	5 coastal sites, P.I.	6-7 inds., 1	v.o., T.French
1/11,20	Salisbury, Acoaxet	1, 1	fide R.Forster, G.Gove#
1/26,29	Squantum, Nantucket	1, 1	G.Wilson, E.Andrews
2/3,10	Bridgewater, M.V.	1, 1	BBC, V.Laux
2/18,20	Rowley, Ipswich	1, 1	M.Kasprzyk#, K.Blanchard
2/24	Amesbury	1	D.+D.Oliver

American Kestrel:			
12/16,22	Greater Boston, Quincy	22, 16	CBC
12/23,29	Taunton, Nantucket	18, 25	CBC
12/30,2/20	Concord, P.I. to Burlington	12, 12+	CBC, P.Garrey
Ruffed Grouse:			
12/16,30	Cape Ann, Concord	3, 4	CBC
12/15,31	Whitman, Sharon	3, 4	B.Petersen, D.Skiel
2/8, 17	Sharon, Newbury	7, 2	D.Clapp, R.Heil
Bobwhite:			
12/23, 1/26	Taunton-Middleboro, P.I.	12, 8	CBC, BBC
Ring-necked Pheasant:			
12/16,2/3	Greater Boston, Framingham	211, 32	CBC, R.Forster
Clapper Rail:			
12/27	Plymouth	1	CBC(R.Forster)
Virginia Rail:			
12/16,29	Chatham, Nantucket	8, 3	CBC
12/23	Newburyport, Braintree	3, 4	CBC, G.d'Entremont
12/30,1/7-31	Concord, Nantucket	2, 1	CBC, E.Andrews
1/12-2/20,1/26	S.Peabody, Ipswich	1, 2	R.Heil#
2/2,16	Marshfield, Ipswich	1, 3	M.Kasprzyk#, J.Berry
Sora:			
2/3 on	S.Peabody	1	R.Heil + W.Petersen
Common Gallinule:			
12,thr.Jan.	Consue-Nantucket	1	R.Veit#
American Coot:			
12/8,9	Nantucket, Lakeville	205, 80	M.Litchfield, J.Kricher
12/16,23	Cape Cod,Taunton-Middleboro	60, 66	CBC
2/3,9	Lynn, Plymouth	35, 20	R.Heil#,SSBC

SHOREBIRDS

A White-rumped Sandpiper discovered in Newburyport Harbor on the CBC December 23 was, with the exception of one other reported on a Marshfield CBC January 1, 1972, the only New England CBC record. A calling Short-billed Dowitcher at Menemsha, M.V., December 2 was late as were the four Long-billed Dowitchers, all vocally identified, at East Boston December 1-January 1, Duxbury December 16, and at Eastham December 15-January 12. Tuckernuck CBC noted a Marbled Godwit December 31. A later state record occurred in 1969-70 when this species was reported from Clark's Pond, Ipswich area to Plum Island, November-January and was last seen on February 15, 1970 (R. Forster).

Semipalmated Plover: (no details)			
12/16	Scituate	2	E.Outler
Killdeer:			
12/4,9	E.Boston, GMNWR	11, 4	R.Stymeist, fide R.Forster
12/16,23	Cape Ann, Newburyport	14, 1	CBC
1/6,14	Squantum, GMNWR	2, 2	BBC, C.Ewer#
1/19,thr.Feb.	Dartmouth, Orleans	22, 1	R.Heil#, v.o.
2/9,16	Plymouth, M.V.	1, 1	SSBC, V.Laux
Black-bellied Plover:			
12/4,16	Winthrop, Cape Ann	27, 1	R.Stymeist, CBC
12/22,29	Quincy, Nantucket	5, 15	CBC
12/31,1/19	Tuckernuck, Acoaxet	8, 1	CBC, R.Heil#
Ruddy Turnstone:			
12/4,26	Winthrop, Nantucket	28, 7	R.Stymeist, R.Veit
12/22	Quincy, Hull	4, 3	CBC
1/1-20,13	P.I., Fairhaven	1, 11	BBC#, G.Mock
2/1-23,2	P.I., N.Scituate	1, 1	v.o., W.Petersen#
2/17	M.V.	1	V.Laux
American Woodcock:			
12/15,16	Bellingham, Cambridge	1, 1	CBC
12/16,23	Eastham, Newburyport	1, 1	CBC
1/27	Falmouth	1	R.Stymeist + R.Veit
2/9,18	Orleans(Pochet), Falmouth	2, 1	P.Trull, R.Veit#
Common Snipe:			
12/16,29	Chatham, Nantucket	12, 5	CBC
12/30,1/6	Concord, Bourne	2, 8	CBC, SSBC
1/6,27	Plymouth, Falmouth	5, 6	T.Leverich#, R.Veit
thr.Feb., 9	S.Peabody, Bourne	3, 7	R.Heil, SSBC
2/16,18	Newburyport, Falmouth	2, 5	BBC, R.Veit#

Greater Yellowlegs:			
12/16	Cape Ann, E. Boston	2, 1	CBC
12/16	Cape Cod	15	CBC
1/1-6, thr. Jan.	Chatham, Eastham	2, max. 8 (1/12)	B. Nikula#
1/13, 1/1-27	Newburyport, Mattapoisett	1, 2	J. Grugan#, G. Mock
2/11, thr. Feb.	M.V., Eastham	2, max. 4	V. Laux, W. Petersen#
Red Knot:			
12/9, 1/20	Duxbury, M.V.	10, 8	W. Petersen#, V. Laux
2/2, 23	N. Scituate, Duxbury	5, 17	W. Petersen#
2/17	Quincy	5	D. Brown
Purple Sandpiper:			
12/4, 22	Winthrop, Hull	308+, 225	R. Stymeist, CBC
1/1, 19	Cohasset, Gloucester	250, 40	S. Osborne#, BBC
1/19, 27	Acoaxet, N. Scituate	50, 300	R. Heil, S.+R. Higginbotham
2/2, 23	N. Scituate, E. Gloucester	350+, 200	W. Petersen#, G. Soucy#
White-rumped Sandpiper:			
12/23	Newburyport Harbor	1	W. Petersen, B. Nikula, K. Anderson#
Excellent details on this report.			
1/20	P.I. (no details)	1	BBC (P. Arrigo)
Dunlin:			
12/4, 15	Winthrop, Westport	900, 175	R. Stymeist, CBC
12/16	Cape Ann, Cape Cod	134, 990	CBC
1/1, 13	Revere, P.I.	230, 32	R. Stymeist, R. Heil
1/20	Cohasset, Dartmouth	80, 150	R. Forster#, G. Gove
2/17	Winthrop, Quincy	50, 87	C. Jackson, D. Brown
Short-billed Dowitcher:			
12/2	Menemsha-M.V.	1	V. Laux, B. Nikula, P. Trull
Long-billed Dowitcher:			
12/1-1/1, 16	E. Boston, Duxbury	2, 1	R. Stymeist#, E. Cutler
12/15-1/12	Eastham (Salt Pond)	1	C. Goodrich#
Marbled Godwit:			
12/31	Tuckernuck I.	1	R. Veit + M. Litchfield
Sanderling:			
12/4, 31	Winthrop, Nantucket	200, 119	R. Stymeist, CBC
Red Phalarope:			
12/5, 11	NE peak Geo. Bank, P'town	15, 2	R. Veit, S.+R. Higginbotham

JAEGERS THROUGH ALCIDS

Pomarine Jaegers were reported into December again as last year; from shore singles were seen at Menemsha, M.V., December 11 and from Orleans December 16. Bonaparte's Gull numbers were impressive all along the coast but particularly so at Chatham in early December and off Siasconset, Nantucket, in late January when 3000 and 4000+, respectively, were estimated. Black-legged Kittiwakes continued to be abundant along the entire length of the outer Cape Cod beaches as they were during November. 15,000 were estimated visibly feeding on sand lance in the surf at Orleans Beach on the Cape Cod CBC December 16. Razorbills staged a heavy flight; at least 1700 were noted passing by Sandy Neck, Barnstable, during December. Large numbers remained in the shallow cape waters apparently also taking advantage of the sand lance. Stranded, oiled alcids washed ashore on the outer Cape Cod beaches included 53 Razorbills, 11 Common Murres, 6 Thick-billed Murres, and 3 Common Puffins.

Pomarine Jaeger:			
12/1-30, 16	Geo. Bank, 25 mi. ENE of Nant.	4, 2	MBO staff
12/11, 16	Menemsha-M.V., Orleans	1, 1	V. Laux, C. Goodrich
skua sp.			
12/6, 14	N edge Geo. Bank, Eastham (F.E.)	1, 1	R. Veit, B. Nikula + P. Vickery
2/8, 16	Eastham (F.E.), Geo. Bank	1, 3	B. Nikula, MBO staff
Great Skua:			
2/16	SW Georges Bank	2	MBO staff
Glaucous Gull:			
12/2, 23	P.I.	1 (1W), 1 imm.	R. Heil#, CBC
12/29, 1/22	Nantucket, Gloucester (E.P.)	4, max. 4	CBC, C. Leahy
1/20, 29	M.V., Provincetown	1, 1	V. Laux, J. Grugan
2/1, 9	Newburyport, Plymouth	1, 1 (2W)	J. Grugan, SSBC
2/10, 23	Provincetown, Gloucester	2, 2	R. Heil#, BBC
Iceland Gull:			
12/9, 16	P.I., Cambridge	2, 1	BBC, CBC
12/23	Newburyport, Taunton	7, 1	CBC

12/29,1/13	Scusset-Nantucket, Newbpt.	21, 30	R.Veit#, J.Grugan
1/21,26	Millis, Gloucester	1 ad., 40	B.Cassie, R.Veit#
2/9,23	P.I.	30, 35(75% ad.)	W.Petersen, R.Heil#
2/23,27	Gloucester, Marshfield	20, 2	BBC,S.+R.Higginbotham
Lesser Black-backed Gull:			
12/25	M.V.	1 sub-ad.	V.Laux
12/28-30;1/3-4	Siasconset-Nantucket	3; 1(2W)	R.Veit,P.Buckley#;R.Veit#
2/17	Millis	1 (3W)	B.Cassie
Details received on all the above reports.			
Ring-billed Gull:			
12/16,29	Greater Boston, Nantucket	815, 32	CBC
1/19,2/23	Westport, Cape Ann	400+, 112	R.Heil#, BBC
Black-headed Gull:			
12/7,16	Chatham, Orleans(CBC)	10, 6	C.Goodrich#
12/9	Hingham, Scituate Light	1, 1	S.Higginbotham
12/24,29	E.Boston, Menemsha-M.V.	4(3 ad,1 imm.), 1	S.Zendeh#, V.Laux#
12/29,1/27	Nantucket	1 imm., 1	M.Kasprzyk#, E.Andrews
1/6,thr. Jan.-Feb.	Plymouth, Gloucester(E.P.)	1 ad., max. 3	BBC, v.o.
2/17,18	Winthrop, Newburyport	5, 1	C.Jackson, M.Argue#
2/20	Orleans	1 ad.	C.Goodrich
Laughing Gull:			
12/2,29	Menemsha-M.V.	600+, 1	V.Laux#
12/3,4	Sandwich, E.Boston	1 ad., 5	R.Veit, R.Stymeist
12/9,11	Scusset, P'town(R.P.)	1, 1	J.Kricher,S.+R.Higginbotham
Bonaparte's Gull:			
12/7,9	Chatham, Scituate	3000, 225	C.Goodrich,S.Higginbotham
12/16	Greater Boston, Cape Ann	601, 509	CBC
12/29,31	Nantucket, Tuckernuck	2651, 573	CBC
1/1,13	Cohasset, Newburyport	350, 150	S.Osborne, J.Grugan
1/22-26,26	Gloucester, Siasconset-Nant.	500, 4000+	C.Leahy#, E.Andrews
2/4-23,23	Gloucester(E.P.), Newbpt.	200+, 25	J.Grugan, R.Heil
Little Gull:			
12/3,29-30	Cape Cod Bay, Siasconset-Nant.	1,max. 6(3 ad.,3 imm.)	MBO staff,R.Veit#
1/1-7,27-28	Siasconset-Nant.	max. 6, max. 4 (2 ad.,4 imm.) (2 ad.,2 imm.)	R.Veit#,E.Andrews
1/6,15-19	Eastham, Newburyport	1 ad., 1 ad.	W.Petersen, O.Komar#
2/18	Gay Head-M.V.	1 ad.	V.Laux#
2/24,late Feb.	Salisbury,Gloucester(E.P.)	1, 1	BBC, v.o.
Black-legged Kittiwake:			
12/16	Orleans Beach, 17 mi. ESE of Monomoy	15000, 2500	C.Goodrich#,MBO staff
12/11,29	P'town(R.P.), Nantucket	800+, 819	S.Higginbotham, CBC
1/5,29	Rockport(A.P.), P'town(R.P.)	130 ad., 1500	R.Heil, J.Grugan
2/8,10	Eastham(F.E.), P'town(R.P.)	200, 700(75% ad.)	B.Nikula,R.Heil#
Forster's Tern:			
12/2	Menemsha-M.V.	1	V.Laux#
12/28	Siasconset-Nantucket	1	P.Buckley, K.Able#
Common Tern:			
12/16,30	Chatham, Siasconset-Nant.	1, 1	V.Laux#, R.Veit#
Razorbill:			
12/4,5,21	Barnstable(S.N.)	1020, 153, 519	R.Pease
12/2,9	Scusset, Dennis	50, 35	J.Kricher,P.Trull
12/14,16	3 mi. S of M.V., Nauset	200, 18	MBO staff, CBC
12/27,29	Plymouth, Marshfield	19, 10	CBC
1/1	Scusset,N.Beach-Orleans	6, 50	W.Petersen,C.Goodrich
1/6,16	Eastham(F.E.)	250+, 300-400	W.Petersen,fide B.Nikula
2/20-26	outer Cape Cod	53 oiled	D.Reynolds et al.
2/24,25	Eastham(Nauset), 20 mi. E of Cape Cod	20, 24	W.Petersen, MBO staff
Common Murre:			
12/4,2/4	P'town, 10 mi. SW of M.V.	1, 6	R.Veit, MBO staff
2/20-26,25	outer Cape Cod, Nant. Shoals	11 oiled, 2	D.Reynolds#,MBO staff
Thick-billed Murre:			
12/2	P.I., Scusset	2, 1	BBC, J.Kricher
12/16,1/5	Cape Ann, Rockport(A.P.)	1, 23	CBC, R.Heil
2/17, 18	Rockport, P.I.	1, 1 dead	BBC, T.French#
2/20-26	outer Cape Cod	6 oiled	D.Reynolds et al.
Dovekie:			
12/3,16	"Gulf of Maine," 15 mi. SE of Monomoy	3, 1	MBO staff
2/16-19	Georges Bank	8	MBO staff
Black Guillemot:			
12/27,29	Plymouth, Nantucket	3, 3	CBC

1/1,2/4	Cape Ann, Rockport	11, 12	R.Heil, J.Grugan#
1/13,2/2	N.Scituate	17, 12	R.Veit#, W.Petersen#
1/26	Nahant	1	BBC
Common Puffin:			
12/4,9	Eastham(F.E.)	3, 2	W.Bailey, B.Nikula
12/8,16	P'town Harbor, 15 mi. SE of Monomoy	1, 5	MBO staff
2/19	N edge Georges Bank	7	MBO staff
2/22,24	outer Cape Cod	2 oiled, 1 oiled	D.Reynolds et al.
2/25	SE Nant. Shoals, 25 mi. E. of Nant.	2, 1	MBO staff

DOVES THROUGH WOODPECKERS

Although no echo flight occurred, a single Great Gray Owl did appear in Oakham, Worcester County, February 7-24, following last winter's incredible invasion.

The Black-chinned Hummingbird mentioned in the last issue of Bird Observer at a Cohasset greenhouse was confirmed by A. Phillips, a west coast authority, and represents a first record for Massachusetts.

Barn Owl:			
12/16,Jan.-Feb.	Orleans (Pochet)	2, 1	CBC,B.Nikula+P.Trull
2/29	M.V.	nest with 2 eggs	V.Laux
Screech Owl:			
12/16	Cape Cod, Greater Boston	6, 21	CBC
12/23,30	Newburyport, Concord	34, 24	CBC
1/29	P.I.	1	C.+T.Banes
2/11,13	Millis (separate sites)	7, 5	B.Cassie
Great Horned Owl:			
12/15,16	Westport, Greater Boston	10, 8	CBC
12/23,30	Newburyport, Concord	15, 7	CBC
thr.Feb.	7 locales	8 inds.	v.o.
Snowy Owl:			
12/2 on,9	P.I., Rockport	1, 1	BBC#, R.Norris
12/10,15	Saquist, Athol	1, 1	J.Lund, CBC
12/22,26	Quincy, E.Boston(airport)	1, 1	CBC, S.Zendeh
12/29,1/3	Nantucket, Beverly	1, 1 (dead)	CBC, fide R.Forster
1/25,Jan.-Feb.	Randolph, P.I.	1, 1	G.Wilson, v.o.
Barred Owl:			
12/23	Newbpt.,Taunton-Middleboro	3, 3	CBC
1/6,7	Salisbury, Framingham	1, 1	W.Drummond, N.Apton
2/13	Winthrop	1	J.Lupoli
<u>Great Gray Owl:</u>			
2/7-24	Oakham (Worcester Co.)	1	B.Blodget et al.
Long-eared Owl:			
12/4,21	Boston, Nantucket	1, 4	S.Silveria, R.Veit
12/23,26	Taunton-Middleboro,Revere	2, 1	CBC, A.Mastrangelo
12/30,1/2	Concord, Peabody	2, 2	CBC, D.Walden
1/3,22	Bridgewater, Medford	1, 1	D.Briggs,B.Kendell
Short-eared Owl:			
12/8,9	Belmont, Bridgewater	1, 1	B.Cassie, J.Kricher
12/9,23	Duxbury, P.I.	1, 1	W.Petersen#, CBC
12/29,30	Nantucket, Squantum	4, 1	CBC, D.Brown
12/31	Tuckernuck	1	CBC
1/13,27	Squantum, P.I.	1, 1	S.Higginbotham,T.Martin
2/6,13-28	Bridgewater, Saugus	1, 1	D.Briggs#, J.Berry
Saw-whet Owl:			
12/1,1/10,2/1	P.I.	1, 1, 1	BBC#,L.Taylor,J.Grugan
12/29,Jan.-Feb.	Nantucket	5, 2	CBC, E.Andrews
1/20,2/13	Carlisle, Wenham	1, 1	D.Southall, T.French
2/24,25	M.V.,E.Middleboro	1, 1	V.Laux,K.Anderson
<u>Black-chinned Hummingbird:</u> specimen to MCZ			
12/1-10	Cohasset	1	G.Pride, W.Petersen,B.Sorrie
Belted Kingfisher:			
12/16	Cape Ann, Cape Cod	11, 22	CBC
12/30,1/9	Concord, Lowell	9, 1	CBC, S.Read
1/27,thr.Feb.	Falmouth, 4 locales	4-5, 5 inds.	R.Stymeist#,v.o.
Common Flicker:			
12/16,29	Cape Cod, Nantucket	91, 147	CBC
1/12-13,27	P.I.,Falmouth	1, 8	J.Grugan#,R.Stymeist#
2/9,12	Bourne, Lincoln	5, 2	SSBC, P.Swift

Fileated Woodpecker:			
12/16,23	Cape Ann, Taunton	1, 1	CBC
12/30,thr.Jan.	Concord, 10 locales	5, 11 inds.	CBC, v.o.
Red-bellied Woodpecker:			
Dec.-Feb.,15	Middleboro, Medfield	1, 1	C.Bouldry#,CBC
thr.Dec.,thr.Feb.;	12/30 M.V.;Wayland	1, 2; 1	V.Laux#; CBC
1/8-9;1/19,21	Nantucket; S.Natick	1; 1 m., 1 f.	D.Burden;R.Forster,D.Adkins
thr.Feb.	S.Orleans, Brewster	1, 1	Rogers et al.,R.Pyle#
2/3-18,21	Chelmsford, Eastham	1 f., 1	M.Argue, C.Goodrich
Red-headed Woodpecker:			
12/1-17,15-2/24	Brookline, Millis	1 ad., 1 imm.	P.Brown#,B.Cassie
12/17,1/1	Scituate, Gloucester	1 imm., 1 imm.	fide C.Tilden,W.Rice#
Jan.-Feb.	Lanesville	1 imm.	v.o.
Yellow-bellied Sapsucker:			
12/15,mid-Dec.	Nantucket, Chatham	1 m., 1	R.Veit#, R.Clem

PASSERINES

This mild and nearly snowless winter enabled birders to record a great many species that are normally not around at the end of the year. This combination of weather factors is certainly involved. In late November strong southerly winds and warm temperatures "blew-back" many birds that had migrated south. The weather remained pleasant and the lack of snow kept remaining food sources available. The Christmas Bird Count reported many more "warmer" weather birds than in recent years. Note the reports of Tree Swallows, House, Carolina and Long-billed Marsh wrens, 55 Gray Catbirds, 20 Hermit Thrushes, 2 Swainson's Thrushes, White-eyed Vireo and warblers, and the good numbers of meadowlarks, orioles, and sparrows. This season also included many high-lights; outstanding were the Ash-throated Flycatcher that remained eight days in the Cambridge-Belmont area, a Short-billed Marsh Wren, 2 Varied Thrushes, 3 Western Tanagers, 2 Brewer's Blackbirds, Harris' Sparrow and, the most bizarre, the Lucy's Warbler at Clark's Pond in Ipswich.

The Ash-throated Flycatcher at the Alewife Reservation represents the second record for Massachusetts. The first record was a bird found at Eastern Point, Gloucester, November 25 through December 2, 1972 (Harty, Twistom). On December 15, another Ash-throated Flycatcher was found on the northeast side of Quicksand Pond, Acoaxet. Apparently this location is on the state line of Rhode Island and Massachusetts. The first report was from Acoaxet; however, a bit of friendly persuasion by several observers partial to our sister state has now officially claimed the report for Rhode Island. Also of note are the reports of Western Kingbirds, especially the late date of January 1.

Red-breasted Nuthatches were scarce this winter and were missed on a number of CBCs. Carolina Wrens, on the other hand, were found in good numbers especially on the Buzzards Bay and Marthas Vineyard counts. The presence or absence of Carolina Wrens is a fairly accurate indicator of climatic conditions in southern New England. A severe winter can wipe out a good portion of the population. A Short-billed Marsh Wren at Fort Hill, Eastham, represents only the second record during the winter on Cape Cod, the other being a bird found on December 29, 1957 in Orleans (Hinchman).

Many robins lingered through December in good numbers while food was available; they compete with Starlings for the last fruits of the season, the latter always being more successful. Swainson's Thrushes were noted with full details on two CBCs and 20 Hermit Thrushes were found on nine of the eastern Massachusetts counts. A Water Pipit was found in Concord and 7 were noted on the New Bedford CBC. Unlike last year's explosion of Northern Shrikes, there were only fair numbers around this season. Sixteen were reported on the eastern Massachusetts CBCs as compared with 43 last year.

A White-eyed Vireo was found on the Buzzards Bay CBC, a first for a Massachusetts CBC; last year a Solitary Vireo was found on that CBC. An amazing fifteen species of warblers were found during the month of December. The warm weather and strong southerly air flow of late November were certainly the factors responsible. At Clark's Pond in Ipswich, six species were seen including a Lucy's Warbler which represents the first record east of Louisiana. There is a specimen from Triumph, Louisiana, collected by Sid Gauthreaux December 30, 1959. The mild weather and birders' "hot-line" enabled many observers to see and photograph this extraordinary visitor; unfortunately, the hordes of birders who arrived the following day could not locate the bird. Other warblers noted on December 1 included a Black-and-White at Concord and a Yellow and a Cape May at Ipswich. Additional highlights include a Northern Parula, 2 Ovenbirds

banded at Manomet, a Blackpoll, Prairie and 3 Wilson's Warblers. Our "usual" winter warblers were also around in better numbers: note 3128 Yellow-rumped on the Nantucket CBC, 8 Common Yellowthroats on the Boston CBC, 49 Palm Warblers on Nantucket and 17 reports of Yellow-breasted Chats as well as 10 Orange-crowned Warblers. Another weather-attributed "blow-back" was a Painted Redstart in New York where hundreds of observers went to see this bird before a cat made a meal of it.

The lack of snow surely was the explanation for the good numbers of Eastern Meadowlarks to be found this winter. At least 27 Northern Orioles were reported this year compared with 10 last winter. A Yellow-headed Blackbird was found in Hingham and the Brewer's Blackbirds returned to the Katama farm on Marthas Vineyard.

Interesting were the reports of 3 Western Tanagers seen this winter. All of the birds were described as "gray" females, an identification problem not mentioned by the field guides. In normal circumstances, female Western Tanagers range in a continuous color spectrum from very yellow to "gray," the "gray" being the extreme end of the spectrum. The one constant feature is the bright yellow crissum. The upperparts vary from greenish olive to grayish. A discussion of this problem can be found in The Bird Life of Texas by Oberholser (1974).

Again this winter, crossbills and redpolls were not present. When there is a good food crop in the north, these birds simply do not come south; unlike regularly migrating species, there is very little chance of drifted strays occurring extralimitally.

Sparrows were around in better numbers with lingering Grasshopper, Sharp-tailed, Seaside, Vesper, and Chipping sparrows being more numerous than in previous winters. A Green-tailed Towhee in East Orleans, Lark Sparrows, a very late Lincoln Sparrow, and a Harris' Sparrow in Marshfield were the highlights.

Western Kingbird:

12/1,2	Ipswich (Great Neck)	1	R.Heil# + v.o.
1/1	Plymouth	1	W.Petersen, B.Sorrie

Ash-throated Flycatcher:

12/1-9	Cambridge-Belmont	1 ph.	L.Taylor + v.o.
12/15	Acoaxet,MA-Little Compton,RI	1 ph.	CBC (D.Emerson#)

Eastern Phoebe:

12/27;29	Plymouth; M.V., E.Middleboro	1; 1, 1	CBC;CBC,K.Anderson
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Horned Lark:

12/16	Cape Ann, Cape Cod	78, 41	CBC
1/1,20	Revere, Ipswich	65, 40+	R.Stymeist#,M.McClellan
2/1,16	Salisbury	35, 30	J.Grugan#, BBC

Tree Swallow:

12/1	Scusset, P.I.	1, 1	P.Hallowell, G.Gove
12/16,29	E.Orleans, M.V.	1, 2	CBC

Blue Jay:

12/15,16	Buzzard's Bay,Cape Cod	455, 520	CBC
12/16,30	Boston, Concord	357, 1174	CBC
2/18	Chelmsford	46 at feeder	H.Wiggin#

Common Crow:

12/15,16	Millis, Boston	1014, 1085	CBC
12/23,31	Newburyport, Concord	567, 1599	CBC
2/17,23	Ipswich, Dover	150+, 200	R.Heil#,J.Clancy#

Fish Crow:

2/15,16,30	Millis, Boston, Concord	65, 7, 6	CBC
1/19,2/3	S.Natick, Framingham	15, 23	R.Forster
2/23,28	W.Roxbury, Wayland	7, 12	J.Clancy#,K.Hamilton

Black-capped Chickadee:

12/15,16	Millis, Boston	873, 921	CBC
12/16,30	Cape Cod, Concord	892, 2578	CBC

Tufted Titmouse:

12/16,30	Taunton, Concord	182, 497	CBC
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White-breasted Nuthatch:

12/16,30	Boston, Concord	107, 364	CBC
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Red-breasted Nuthatch:

12/15,27,30	Worcester, Plymouth, Concord	14, 14, 10	CBC
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Brown Creeper:

12/16,30	Boston, Concord	28, 43	CBC
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House Wren:

12/16	Chatham, Melrose	1, 1	CBC(Nikula),CBC(Andrews)
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12/31-1/1,1/27	Marshfield, Falmouth	1, 1	W.Petersen#,R.Veit+R.Stymeist
2/9	Falmouth (not same bird as 1/27)	1	R.Heil, B.Nikula
Winter Wren:			
12/8,9,15	Manchester,Camb.,Buzz,Bay	1, 1, 2	F.Burnett,R.Stymeist,CBC
12/16	Cape Cod, Boston, Cape Ann	1, 1, 1	CBC
1/27	Mattapoisett	1	G.Mock
2/11,17+18	Reading, M.V.	1, 1 + 1	F.Robie, V.Laux
Carolina Wren:			
12/1-2/6,	Brookline, Nahant	2-1, 1	D.Arvidson#,R.Stymeist#
12/15,30	Buzzard's Bay, M.V.	22, 36	CBC
2/9	Falmouth	17	R.Heil#
Long-billed Marsh Wren:			
12/4,11	E.Boston, Nantucket	3, 3	R.Stymeist#,R.Veit#
12/25,30	S.Peabody, Concord	2, 2	R.Heil, CBC
2/20	S.Peabody	1	R.Heil
Short-billed Marsh Wren:			
12/16	Eastham	1	CBC(W.Petersen)
Full details on file, excellent description.			
Mockingbird:			
12/22,30	Quincy, Concord	67, 144	CBC
Gray Catbird:			
12/15-31	Eastern MA CBCs	55	CBC
1/25,2/9	E.Gloucester, Falmouth	1, 3	C.Leahy, R.Heil#
Brown Thrasher:			
12/16	Cape Cod, Boston	5, 4	CBC
1/20, 27	Lexington, Falmouth	3, 2	J.Everett, R.Stymeist
2/9, 17	Falmouth, M.V.	2, 2	R.Heil, V.Laux
American Robin:			
12/15,16	Buzzards Bay, Cape Cod	408, 95	CBC
12/16,30	Boston, Concord	183, 219	CBC
1/1,6	Lancaster, Marion	110, 150-200	H.Merriman,D.Buckman
1/26,27	Ipswich, Falmouth	75, 65	J.Everett,R.Stymeist#
2/3	Falmouth, Framingham	200, 30	B.Litchfield#,R.Forster
2/19,28	Scituate, E.Middleboro	50, 30	H.Howard,K.Anderson#
Varied Thrush:			
Dec.?	Outer Cape Cod	1	fide R.Forster,Cape Cod M.N.H
2/17	Harvard	1 imm.	M.Sporer, N.Powell
Feb.?	S.Orleans	1	fide W.Bailey
Hermit Thrush:			
12/15-31	Eastern MA CBCs	20	CBC
1/3,6	P.I., Neponset	1, 1	S.Garrett#, BBC
1/19,27	Topsfield, Falmouth	1, 1	R.Stymeist#
2/9	E.Middleboro, Falmouth	1, 2	K.Anderson, B.Nikula#
2/19,29	Framingham, M.V.	1, 2	R.Forster, V.Laux
Swainson's Thrush:			
12/15	Norfolk, Buzzards Bay	1, 1	CBC(Fuller),CBC (R.Forster)
Full convincing details received on both birds.			
Eastern Bluebird:			
late Dec.	Harwich	6, 12	R.Comeau
12/16	Chatham	4	CBC
Golden-crowned Kinglet:			
12/16	Cape Ann,Cape Cod	12, 26	CBC
12/23,27	Newburyport, Plymouth	11, 34	CBC
1/13,31	Marshfield, Canton	6, 2	W.Petersen, D.Clapp
Ruby-crowned Kinglet:			
thr.Dec.	18 locales	33 inds.	v.o.
1/13,27	Hingham, S.Peabody	1, 1	S.Osborne,R.Heil#
2/16	M.V.	1	V.Laux
Water Pipit:			
12/1,16	Concord, New Bedford	1, 7	R.Forster+R.Walton,CBC
Cedar Waxwing:			
12/22,23	Hingham, Georgetown	100, 157	N.Osborne#,R.Stymeist#
1/1,9	Georgetown, Littleton	95, 40	R.Stymeist#, V.Sprong
2/5,12,18	Concord (Washawtuc C.C.)	50, 80, 130	R.Forster
Northern Shrike			
12/1,9,11	Ipswich, Wayland, Sudbury	1, 1, 1	R.Heil,R.Forster,J.Baird
12/15-31	Eastern MA CBCs	16	CBC
thr.Jan.,1/1	P.I.; Eastham, Ipswich	1; 1, 1	v.o.;R.Comeau#,J.Berry
2/11,16	Concord(GMNWR), Ipswich	1, 1	C.Lipson, J.Berry#
2/23	Cambridge, Merrimac	1, 1	R.Stymeist, G.Soucy#

<u>Starling:</u>			
12/16,22	Boston, Quincy	98700, 90000	CBC
<u>White-eyed Vireo:</u>			
12/15	E.Falmouth	1	CBC(Nikula,Heil,v.o.)
<u>Black-and-white Warbler:</u>			
12/1	Concord	1	R.Forster, R.W lton
<u>Orange-crowned Warbler:</u>			
12/1-16	Cambridge-Belmont	1	R.Stymeist# + v.o.
12/9,11	Salisbury, Marblehead	2, 1	G.Gove, R.Sides
12/16	Chatham, Orleans, Cape Ann	1, 1, 1	CBC
12/18, 22	Brookline, Ipswich	1, 1	D.Arvidson, R.Heil
1/26	Rockport	1	R.Veit, R.Stymeist#
<u>Lucy's Warbler:</u>			
12/1	Ipswich(Great Neck)	1	R.Heil + v.o.
	First eastern U.S. coast record, well observed, photographed. See article on this amazing record elsewhere in this issue.		
<u>Northern Parula:</u>			
12/10	Concord(GMNWR)	1	F.Bemis
	Good details.		
<u>Yellow Warbler:</u>			
12/1	Ipswich(Great Neck)	1	R.Heil + v.o.
	Excellent details. Seen chasing <u>Lucy's Warbler</u> . Latest occurrence in Mass.		
<u>CAPE MAY Warbler:</u>			
12/1	Ipswich(Great Neck)	1	R.Heil + v.o.
12/15	Nantucket	1	R.Veit, M.Litchfield
<u>Yellow-rumped Warbler:</u>			
12/1	P.I., Concord	50, 3	I.Giriunas#, R.Forster#
12/16	Cape Cod, Boston	1679, 73	CBC
12/29,31	Nantucket, Tuckernuck	3128, 333	CBC
1/3,5	Watertown, Framingham	1, 1	R.Stymeist, R.Forster
1/6,19	Falmouth, Westport area	250, 200	BBC, R.Heil#
2/2	Acoaxet, Scituate	150, 35	F.Hamlen, R.Heil#
2/16,28	Wayland (2 locales)	1, 1	A.Entin, R.Forster
<u>Blackpoll Warbler:</u>			
12/13	Eastham	1	C.Goodrich
<u>Pine Warbler:</u>			
12/9,27	Salisbury, Plymouth	1, 1	G.Gove, CBC
2/18	Falmouth	1 imm.	R.Veit#
<u>Prairie Warbler:</u>			
12/10,29	Nantucket	1 imm., 1 imm.	R.Veit#, CBC(P.Buckley#)
<u>Palm Warbler:</u>			
12/1	Rockport, Ipswich	1, 1	R.Norris, v.o.
12/9,15	Braintree, Millis	1, 1	S.Higginbotham, CBC
12/16,22	Cape Cod, Quincy	7, 1	CBC
12/27,29	Plymouth, Nantucket	1, 49	CBC
	Nantucket total includes 3 "yellow" Palm Warblers.		
<u>Ovenbird:</u>			
12/3-21,17	Manomet (2 sites)	1 b., 1 b.	MBO staff
<u>Common Yellowthroat:</u>			
12/1,16	Ipswich, Boston	1, 8	L.Taylor#, CBC
12/29,30	Nantucket, Concord	2, 2	CBC
2/2,9	Marshfield, Newburyport	1, 1	M.Kasprzyk, R.Veit#
<u>Yellow-breasted Chat:</u>			
thr.Dec.-2/6	Brookline (from Nov.)	2-1, 1	D.Arvidson + v.o.
	Two very different locations; two at Hall's Pond seen together on 4 occasions.		
12/15	Falmouth, Westport	3, 1	CBC
12/6+7,16	Nahant, Cape Cod	1, 2	M.Kasprzyk, CBC
12/29,1/29+30	Nantucket	1, 1	CBC, J.Strouy#
thr.Feb.,2/9	Harwich, Falmouth	1 (at feeder), 3	VanBuren, B.Nikula#
2/17	Nahant	1	J.Mann, R.Stymeist#
<u>Wilson's Warbler:</u>			
early Dec.,12/8	Chatham, Concord(GMNWR)	1, 1	R.Clem, R.Walton
12/16-17	Boston (Forest Hills)	1	CBC(H.D'Entremont#)
	Full details received.		
<u>Eastern Meadowlark:</u>			
12/15,16	Westport, Cape Cod	45, 138	CBC
12/23,29	Newburyport, Nantucket	33, 34	CBC
1/6,19	Fairhaven, Westport area	40, 80	G.Mock, R.Heil#
2/3,11	Framingham, Sudbury	5, 8	R.Forster, R.Forster
2/18	Salisbury, Cape Ann	4, 30	H.Parker#, R.Kleber#

<u>Yellow-headed Blackbird:</u>			
1/1	Hingham	1 f.	H. Walsh, S. Higginbotham
<u>Red-winged Blackbird:</u>			
12/16,30	Boston, Concord	175, 58	CBC
1/8,19	Littleton, Salem	300, 85	W. Baird, C. Blaszczak
2/9,28	Plymouth, Framingham	30, 55	T. Lloyd-Evans#, K. Hamilton
<u>Northern Oriole:</u>			
thr. Dec.	16 locations	21 inds.	v.o.
1/1-2/3,1/13	Newton, Norwell	1, 1	O. Komar+v.o., J. Litchfield#
1/21,1/30	Weston, Edgartown(M.V.)	1, 1	C. Smith, V. Laux
2/11,19	Stoneham, Milton	1, 1	S. Margiolic, I. Lutes
<u>Rusty Blackbird:</u>			
12/15,22	Athol, Millis, Quincy	1, 3, 10	CBC
12/23,30	Newburyport, Concord	1, 4	CBC
1/1,12	Lancaster, S. Peabody	1, 1	H. Merriman, R. Heil
2/11+24,16	Millis, S. Peabody	1 + 1, 27	B. Cassie, R. Heil
<u>Brewer's Blackbird:</u>			
12/29-2/29	Katama (M.V.)	1-2	V. Laux# + v.o.
<u>Common Grackle:</u>			
1/19	Edgartown (M.V.)	200	V. Laux
thr. Feb.	M.V.	max. 600	V. Laux
<u>Brown-headed Cowbird:</u>			
12/9;15,30	Hamilton; Westport, Concord	65; 55, 153	J. Berry; CBC
2/2,3	Marshfield, Woburn	50+, 42	R. Heil, G. Gove
<u>Western Tanager:</u>			
12/16-17	Eastham	1 "gray" f.	R. Emery#
1/2, 4	Framingham	1 "gray" f.	K. Hamilton
1/6-2/6	Dover	1 (at 2 feeders)	Mrs. G. Pierce, H. Robbins
<u>Cardinal:</u>			
12/16,30	Boston, Concord	149,232	CBC
<u>Dickcissel:</u>			
12/13-17,12/16-2/29	Middleboro, Newton	1, 1	D. Briggs, CBC (S. Denison#)
12/16,23	Orleans, Georgetown	1, 1	CBC (Lund), CBC (Veit)
12/29,1/1-5	Marshfield, Lanesville	1, 1	CBC (Harrington), D. Brown#+v.o.
2/1-20,5+6	Middleboro, Lincoln (DFWS)	1, 1	S. MacDonald#, R. Forster#
<u>Evening Grosbeak:</u>			
12/15,30	Athol, Concord	555, 676	CBC
thr. Jan.+Feb.	Very few reports with highest counts only in the thirties, mostly flocks of five to ten birds.		
<u>Purple Finch:</u>			
12/22,30	Ipswich, Concord	36, 97	R. Heil, CBC
1/1	Dover, Georgetown	1, 2	H. Robbins, R. Stymeist
2/3,24	Framingham, Medfield	3, 8	R. Forster, H. Robbins
<u>House Finch:</u>			
12/15,16	Buzzards Bay, Boston	419, 172	CBC
12/16	Cape Ann, Cape Cod	181, 280	CBC
1/27	S. Peabody	40	R. Heil
<u>Pine Siskin:</u>			
12/15	Athol, Worcester	2, 3	CBC
12/16	Middlesex Fells, Melrose	1, 1	CBC (Gove + Andrews)
<u>American Goldfinch:</u>			
12/15,16	Buzzards Bay, Boston	146, 356	CBC
12/22,30	Quincy, Concord	155, 702	CBC
1/12,2/3	Framingham	85, 65	R. Forster#, R. Forster
<u>Green-tailed Towhee:</u>			
12/16	E. Orleans	1	CBC (R.+J. Baird, R. Forster)
Full details received.			
<u>Rufous-sided Towhee:</u>			
12/15	Buzzards Bay	50	CBC
12/15-31	Other E. Mass. CBC	50	CBC
1/19	Westport area	7	R. Heil#
2/3,9	Nahant, Falmouth	2, 28	R. Heil, B. Nikula#
<u>"Ipswich" Sparrow:</u>			
12/15-31	5 coastal CBCs	12	CBC
1/13-29	P.I.	1-7 (max. 1/29)	R. Heil#
<u>Savannah Sparrow:</u>			
12/15,16	Buzzards Bay, Boston	11, 11	CBC
12/16	Cape Cod, Cape Ann	20, 15	CBC
12/30,1/26	Nantucket, Ipswich	27, 10	CBC, R. Heil
2/2,17	Scituate, Salisbury	12, 7	R. Heil, M. Kasprzyk#

<u>Grasshopper Sparrow:</u>		
12/1-10	Cambridge-Belmont(Alewife)	1 R.Stymeist# + v.o.
<u>Sharp-tailed Sparrow:</u>		
12/16	E.Boston, Cape Cod	2, 3 CBC
1/19,20	Eastham, Scituate	3, 2 B.Nikula, R.Veit#
2/18	Eastham, P.I.	3, 4 B.Nikula, T.Martin#
<u>Seaside Sparrow:</u>		
12/23,29	Newburyport, Nantucket	3, 1 CBC(Petersen),CBC(McGuinness)
1/2,19	Nantucket, Eastham	1, 2 E.Andrews, B.Nikula
2/2,7	Scituate, P.I.	1, 1 W.Petersen, G.Soucy
2/9,18	Newbpt.+ P.I., Eastham	2 + 1, 1 R.Veit#,B.Nikula
<u>Vesper Sparrow:</u>		
12/23	Salisbury	1 CBC(K.Hamilton)
<u>Lark Sparrow:</u>		
12/1-1/20	Hingham (from Nov.)	1 B.Terry + v.o.
1/19	Mattapoisett	1 G.Mock
<u>Dark-eyed Junco:</u>		
12/15,16	Athol, Boston	543, 751 CBC
12/22,30	Quincy, Concord	410, 749 CBC
<u>"Oregon Junco:"</u>		
12/16	Boston (Melrose)	1 CBC (Andrews#)
<u>Tree Sparrow:</u>		
12/16,22	Boston, Quincy	339, 330 CBC
12/23,30	Newburyport, Concord	390, 551 CBC
<u>Chipping Sparrow:</u>		
12/15,24+31	Onset, Hingham	16, 1 CBC(Petersen#),M.Greenwaldt
Jan.-Feb.	Edgartown(M.V.)	20-25(at feeder) V.Laux#
1/1-2/2	Hingham	max. 5 R.Veit#+v.o.
1/27,2/11	S.Peabody, E.Middleboro	1, 2(1 b.) R.Heil#,K.Anderson
<u>Field Sparrow:</u>		
12/15,16	Buzzards Bay, Boston	65, 51 CBC
1/13,20	Hingham	60, 45 R.Veit#,R.Stymeist#
2/2,16	Hingham, M.V.	25, 50 R.Heil#,V.Laux#
<u>Harris' Sparrow:</u>		
late Dec.-2/29	Marshfield	1 B.Sorrie, v.o.
<u>White-crowned Sparrow:</u>		
12/1-10	Cambridge-Belmont(Alewife)	1 imm. R.Stymeist + v.o.
12/7,13	Nantucket, Lincoln	4, 2 M.Litchfield,P.Swift#
12/15-31	Eastern Mass. CBC	24 CBC
1/1-2/18	Lincoln (DFWS)	1 imm., 1 ad. R.Forster + v.o.
<u>White-throated Sparrow:</u>		
12/15,16	Buzzards Bay, Boston	365, 213 CBC
1/19,27	Westport, Falmouth	32, 28 R.Heil, R.Stymeist
2/9	Falmouth	210+ R.Heil#
<u>Fox Sparrow:</u>		
12/16	Boston, Cape Cod	11, 1 CBC
1/1,3	Framingham, Jamaica Plain	5, 4 R.Forster, H.Wiggin
2/3, 9	Framingham, Falmouth	3, 2 R.Forster, B.Nikula#
<u>Lincoln's Sparrow:</u>		
1/1	Gloucester (E.P.)	1 R.Heil
Full, convincing details		
<u>Swamp Sparrow:</u>		
12/22,30	Quincy, Concord	38, 34 CBC
2/3,9,17	S.Peabody,Falmouth,Ipswich	5, 10, 8 R.Heil
<u>Song Sparrow:</u>		
12/15,16	Buzzards Bay, Boston	352, 767 CBC
12/22,30	Quincy, Concord	228, 195 CBC
2/9	Falmouth, Ipswich	65, 40+ R.Heil#,M.Kasprzyk
<u>Lapland Longspur:</u>		
12/16,12/23	Boston, Newburyport	10, 15 CBC
1/1,thr.Feb.	Salisbury	25, max. 45(2/9) J.Baird#,R.Forster+v.o.
<u>Snow Bunting:</u>		
12/23-2/29	Groveland	125-225 (12/23) CBC(R.Stymeist#)
1/1,12	Lanesville, Quincy	25, 25 H.Weissberg#,S.+R.Higginbotham
2/18	Salisbury	1 H.Wiggin#

List of Abbreviations

ad.	adult	GMNWR	Great Meadows National Wildlife Refuge
b.	banded	IRWS	Ipswich River Wildlife Sanctuary
dk.	dark phase	MBO	Manomet Bird Observatory
f.	female	MNWS	Marblehead Neck Wildlife Sanctuary
imm.	immature	SSBC	South Shore Bird Club
ind.	individual	WBWS	Wellfleet Bay Wildlife Sanctuary
lt.	light phase	WMWS	Wachusett Meadows Wildlife Sanctuary
m.	male	A.A.	Arnold Arboretum
max.	maximum	A.P.	Andrews Point, Rockport
ph.	photographed	E.P.	Eastern Point, Gloucester
thr.	throughout	F.E.	First Encounter Beach, Eastham
v.o.	various observers	F.H.	Fort Hill, Eastham
yg.	young	F.M.	Fowl Meadow, Milton
#	additional observers	M.V.	Marthas Vineyard
ABC	Allan Bird Club	Mt.A.	Mt. Auburn Cemetery, Cambridge
BBC	Brookline Bird Club	P.I.	Plum Island
CBC	Christmas Bird Count	R.P.	Race Point, Provincetown
DFWS	Drumlin Farm Wildlife Sanctuary	S.N.	Sandy Neck, Barnstable
FBC	Forbush Bird Club	W	Winter (e.g., 2W = second winter)

CORRIGENDA - THE FALL MIGRATION, 1979

In the summary, LOONS THROUGH HERONS, page 18, Vol. 8, No. 1, change the date of the northeast storm, November 11, to November 14 to correspond with the list of species. Also, in this same summary, the unexplained food supply to warrant the number of pelagic species is the abundance of sand eels (Ammodytes).

The statement concerning the unprecedented numbers of Cory's Shearwaters is incorrect; the count of 2500+ is not the highest nor is 1000+ Cory's Shearwaters the previous high. (Cf. R.R.Veit: "Recent Changes in the Range and Distribution of Cory's Shearwater in North Atlantic Waters," B.O.E.M., Vol. 4, No. 3, 1976, p. 72.) Here are records of 1000+ Cory's Shearwaters in recent times.

9/15-21/68	M.V.	1000+	G.Daniels
9/30/68	Nantucket	1000+	G.Soucy#
10/1-6/68	Nantucket	4000+	G.Soucy, H.Jodrey
10/21/69	Eastham (F.E.)	2000+	W.Bailey#
10/17/70	Eastham (F.E.)	2000+	W.Bailey#

Northern Fulmar:

10/14	off Manomet Pt.	2	R.Veit#
	should read		
10/14	off Manomet Pt.	2	MBO staff
Great Egret:			
<u>11/25</u>	Scituate	7	M.Litchfield
	should read		
<u>11/25</u>	Scituate	1	M.Litchfield + v.o.

skua sp.:

8/26	Stellwagen Bank	1	BBC
	should read		

Pomarine Jaeger:

8/26	Stellwagen Bank	1	BBC
	Identification conclusive, made independently by many authorities, through photographs by Clayton Taylor of Connecticut.		

Sooty Tern:

9/8	Lakeville	3	K.Anderson
	should read		
9/8	Lakeville	3	fide K.Anderson

Black Tern:

9/1-3	Nantucket	35	W.Petersen
	should read		
9/1-3	Nantucket	35	BBC

Snowy Owl:

11/18-23	Duxbury Beach	1	B.Sorrie#
	should read		
11/18-23	Duxbury Beach	2	B.Sorrie#

Short-billed Marsh Wren:			
9/8-23	Framingham	1 singing	R.Forster#
	should read		
9/18-23	Framingham	1 singing	R.Forster#
<u>Green-tailed Towhee:</u>			
10/17-11/4	S.Peabody	1 ad. (ph.)	R.Heil + v.o.
	should read		
10/17-11/4	S.Peabody	1 "ad.plumage" (ph.)	R.Heil + v.o.
<u>Lark Bunting:</u>			
10/16	Millis	1 ad.	B.Cassie
	should read		
10/16	Millis	1 basic plumage	B.Cassie
Clay-colored Sparrow:			
11/4	Salisbury	1	R.Heil
	Delete this record.		
Chestnut-collared Longspur:			
10/25-27	Nantucket (Bartlett Farm)	1 b.	R.Veit,M.Litchfield,E.Andrews
	should read		
10/12-16	Nantucket (Bartlett Farm)	1 b.	R.Veit,M.Litchfield,E.Andrews+v.o.

Also the date of the photograph of the Chestnut-collared Longspur on page 43 should be changed from October 7, 1979 to October 12, 1979.



The Ash-throated Flycatcher of Acoaxet, MA - Little Compton, RI was photographed by Richard Bowen of Swansea, MA, on December 15, 1979. Another Ash-throated Flycatcher was seen in the Cambridge area December 1-9, 1979.

WANTED: A used pair of 8 x 40 Leitz binoculars. Please call 489-2298.

TIDE CHART

Tide Table for Boston Harbor.

Add one hour for Daylight Savings Time.

1980 JUNE			1980 JUNE			1980 JUNE			1980 JUNE		
Morning	BOSTON	Afternoon	Morning	BOSTON	Afternoon	Morning	BOSTON	Afternoon	Morning	BOSTON	Afternoon
High 12.28 Height 10.4 Low 8.48 Height 0.8 Sunrise 4.10	1	High 1.00 Height 9.2 Low 7.00 Height 0.8 Sunrise 7.14	High 6.45 Height 9.8 Low 12.38 Height 0.8 Sunrise 4.00	8	High 7.17 Height 10.5 Low 12.59 Height -0.5 Sunrise 7.20	High 12.29 Height 11.1 Low 8.48 Height -1.2 Sunrise 4.00	15	High 1.04 Height 9.6 Low 7.59 Height 0.1 Sunrise 7.23	High 6.20 Height 9.4 Low 12.11 Height 1.3 Sunrise 4.00	22	High 6.48 Height 8.4 Low 12.21 Height 1.1 Sunrise 7.25
High 1.12 Height 10.1 Low 7.38 Height -0.8 Sunrise 4.08	2	High 1.47 Height 9.3 Low 7.48 Height 0.5 Sunrise 7.15	High 7.46 Height 9.9 Low 1.36 Height -0.5 Sunrise 4.06	9	High 8.13 Height 10.9 Low 1.55 Height -0.5 Sunrise 7.21	High 1.16 Height 10.7 Low 7.39 Height 0.9 Sunrise 4.06	16	High 1.53 Height 9.4 Low 7.48 Height 0.4 Sunrise 7.23	High 7.13 Height 8.3 Low 1.04 Height 1.1 Sunrise 4.06	23	High 7.38 Height 9.2 Low 1.21 Height 1.1 Sunrise 7.25
High 1.59 Height 10.3 Low 8.23 Height -0.7 Sunrise 4.06	3	High 2.36 Height 8.3 Low 8.38 Height 0.5 Sunrise 7.16	High 8.45 Height 10.5 Low 2.34 Height -1.0 Sunrise 4.06	10	High 9.07 Height 11.2 Low 2.51 Height -0.6 Sunrise 7.21	High 2.94 Height 10.2 Low 8.22 Height -0.4 Sunrise 4.07	17	High 2.41 Height 9.1 Low 8.38 Height -0.6 Sunrise 7.23	High 8.05 Height 9.5 Low 1.03 Height 0.8 Sunrise 4.09	24	High 8.24 Height 9.4 Low 2.08 Height -1.0 Sunrise 7.25
High 2.49 Height 10.2 Low 9.13 Height -0.6 Sunrise 4.05	4	High 3.26 Height 9.4 Low 9.34 Height 0.5 Sunrise 7.10	High 9.40 Height 10.0 Low 3.30 Height 1.4 Sunrise 4.05	11	High 9.59 Height 11.4 Low 3.43 Height -0.7 Sunrise 7.22	High 3.54 Height 9.7 Low 9.10 Height 0.0 Sunrise 4.07	18	High 3.29 Height 8.9 Low 8.78 Height 1.1 Sunrise 7.24	High 8.53 Height 8.5 Low 2.43 Height 0.4 Sunrise 4.09	25	High 9.07 Height 9.8 Low 2.54 Height -0.8 Sunrise 7.25
High 3.46 Height 10.0 Low 10.06 Height -0.5 Sunrise 4.07	5	High 4.24 Height 8.5 Low 10.32 Height 0.4 Sunrise 7.18	High 10.36 Height 1.4 Low 4.21 Height -1.0 Sunrise 4.06	12	High 10.50 Height 1.6 Low 4.35 Height -0.6 Sunrise 7.22	High 4.47 Height 9.9 Low 9.59 Height 0.4 Sunrise 4.07	19	High 4.16 Height 10.2 Low 10.22 Height 1.3 Sunrise 7.26	High 9.09 Height 9.9 Low 2.43 Height 0.0 Sunrise 4.11	26	High 9.57 Height 10.3 Low 3.40 Height 1.0 Sunrise 7.25
High 4.43 Height 9.9 Low 11.04 Height -0.4 Sunrise 4.07	6	High 5.20 Height 8.7 Low 11.32 Height 0.2 Sunrise 7.16	High 11.26 Height 10.0 Low 4.54 Height -1.6 Sunrise 4.06	13	High 11.40 Height 11.3 Low 4.67 Height -0.5 Sunrise 7.22	High 5.34 Height 10.5 Low 10.50 Height 0.7 Sunrise 4.07	20	High 5.09 Height 9.7 Low 11.88 Height 1.4 Sunrise 7.24	High 10.24 Height 9.4 Low 4.15 Height -0.3 Sunrise 4.10	27	High 10.36 Height 10.4 Low 3.56 Height 0.5 Sunrise 7.25
High 5.43 Height 9.8 Low --- Height --- Sunrise 4.07	7	High 6.19 Height 10.1 Low 12.01 Height 0.4 Sunrise 7.18	High --- Height 6.01 Low 4.75 Height 0.6 Sunrise 4.06	14	High 12.16 Height 9.9 Low 6.13 Height -0.2 Sunrise 7.22	High 6.22 Height 8.5 Low 11.40 Height -0.2 Sunrise 4.07	21	High 5.96 Height 8.8 Low 11.58 Height 1.5 Sunrise 7.24	High 11.08 Height 9.2 Low 4.08 Height 0.4 Sunrise 4.10	28	High 11.59 Height 10.6 Low 5.08 Height 0.3 Sunrise 7.25

Eastern Standard Time. Add 1 Hour For Daylight Savings Time.

Eastern Standard Time. Add 1 Hour For Daylight Savings Time.

Eastern Standard Time. Add 1 Hour For Daylight Savings Time.

Eastern Standard Time. Add 1 Hour For Daylight Savings Time.

1980 JUNE - JULY			1980 JULY			1980 JULY			1980 JULY		
Morning	BOSTON	Afternoon	Morning	BOSTON	Afternoon	Morning	BOSTON	Afternoon	Morning	BOSTON	Afternoon
High 11.53 Height 9.4 Low 5.42 Height -0.9 Sunrise 4.11	29	High --- Height 5.53 Low --- Height --- Sunrise 7.25	High 5.24 Height 9.7 Low 11.38 Height 0.3 Sunrise 4.15	6	High 5.58 Height 10.4 Low --- Height --- Sunrise 7.23	High 11.57 Height 9.5 Low 5.42 Height -0.1 Sunrise 4.20	13	High --- Height 5.52 Low --- Height --- Sunrise 7.19	High 4.43 Height 8.5 Low 10.95 Height 1.0 Sunrise 4.25	20	High 5.12 Height 8.9 Low 11.28 Height 1.2 Sunrise 7.15
High 12.06 Height 10.8 Low 6.27 Height -1.1 Sunrise 4.11	30	High 12.39 Height 9.6 Low 6.39 Height -0.0 Sunrise 7.25	High 6.27 Height 10.5 Low 12.17 Height -0.2 Sunrise 4.15	7	High 6.56 Height 10.5 Low 12.37 Height -0.2 Sunrise 7.22	High 12.08 Height 10.7 Low 6.26 Height -0.9 Sunrise 4.21	14	High 12.42 Height 9.5 Low 6.37 Height 0.2 Sunrise 7.18	High 5.38 Height 8.3 Low 11.46 Height 0.2 Sunrise 4.26	21	High 6.03 Height 8.9 Low --- Height --- Sunrise 7.13
High 12.50 Height 10.9 Low 7.13 Height -1.2 Sunrise 4.12	1	High 1.27 Height 9.8 Low 7.28 Height -0.1 Sunrise 7.24	High 7.29 Height 9.4 Low 1.18 Height -0.1 Sunrise 4.17	8	High 7.54 Height 10.7 Low 1.36 Height -0.1 Sunrise 7.20	High 12.52 Height 10.4 Low 7.08 Height -0.6 Sunrise 4.21	15	High 1.26 Height 9.3 Low 7.22 Height 0.4 Sunrise 7.18	High 6.30 Height 8.2 Low 11.22 Height 1.1 Sunrise 4.26	22	High 6.54 Height 9.1 Low 12.38 Height 1.3 Sunrise 7.13
High 1.40 Height 10.8 Low --- Height --- Sunrise 4.13	2	High 2.16 Height 9.9 Low 8.20 Height -0.1 Sunrise 7.24	High 8.29 Height 9.4 Low 3.18 Height -0.7 Sunrise 4.17	9	High 8.50 Height 10.9 Low 2.32 Height -0.1 Sunrise 7.20	High 1.37 Height 10.0 Low 7.51 Height -0.5 Sunrise 4.22	16	High 2.07 Height 8.8 Low 8.08 Height 0.6 Sunrise 7.18	High 7.23 Height 8.2 Low 1.17 Height -0.9 Sunrise 4.28	23	High 7.43 Height 8.4 Low 1.28 Height 1.2 Sunrise 7.13
High 2.33 Height 10.6 Low 8.62 Height -1.0 Sunrise 4.13	3	High 3.08 Height 10.1 Low 8.31 Height -0.1 Sunrise 7.24	High 9.27 Height 9.5 Low 3.14 Height -0.9 Sunrise 4.18	10	High 9.43 Height 11.00 Low 3.24 Height -0.1 Sunrise 7.20	High 2.21 Height 9.6 Low 8.36 Height 0.1 Sunrise 4.23	17	High 2.52 Height 9.1 Low 8.54 Height 0.9 Sunrise 7.17	High 8.16 Height 8.4 Low 2.08 Height 0.5 Sunrise 4.28	24	High 8.32 Height 9.8 Low 2.18 Height 1.0 Sunrise 7.12
High 3.38 Height 10.3 Low 9.45 Height -0.8 Sunrise 4.13	4	High 4.02 Height 10.1 Low 10.14 Height -0.1 Sunrise 7.23	High 10.20 Height 9.5 Low 4.05 Height -1.1 Sunrise 4.19	11	High 10.33 Height 11.0 Low 4.17 Height -0.1 Sunrise 7.20	High 3.08 Height 9.7 Low 9.20 Height 0.4 Sunrise 4.23	18	High 3.37 Height 9.0 Low 9.44 Height 1.1 Sunrise 7.16	High 9.06 Height 8.6 Low 2.98 Height 0.1 Sunrise 4.29	25	High 9.19 Height 10.2 Low 3.09 Height 0.6 Sunrise 7.11
High 4.24 Height 10.0 Low 10.40 Height -0.5 Sunrise 4.13	5	High 4.59 Height 10.2 Low 11.15 Height -0.1 Sunrise 7.23	High 11.10 Height 9.8 Low 4.95 Height -1.1 Sunrise 4.20	12	High 11.22 Height 10.9 Low 5.06 Height -0.1 Sunrise 7.19	High 3.53 Height 8.6 Low 10.06 Height 0.7 Sunrise 4.24	19	High 4.24 Height 9.0 Low 10.38 Height 1.2 Sunrise 7.16	High 9.54 Height 9.0 Low 3.66 Height -0.4 Sunrise 4.30	26	High 10.08 Height 10.6 Low 3.56 Height 0.3 Sunrise 7.10

Eastern Standard Time. Add 1 Hour For Daylight Savings Time.

Eastern Standard Time. Add 1 Hour For Daylight Savings Time.

Eastern Standard Time. Add 1 Hour For Daylight Savings Time.

Eastern Standard Time. Add 1 Hour For Daylight Savings Time.

Tidal differences from Boston High Tide

Newburyport	31 minutes later
Scituate	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

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