

# N.B. Naturalist

Vol. 6, No. 1, February 1975

This number is very much dominated by material on birds, perhaps a natural thing during a season when many forms of life are dormant and hibernating. We are, however, introducing now a phenological survey of the blooming dates of several common wildflowers. We hope it will add extra interest to your outings this spring.

All members are reminded that articles and news relating to nature and naturalists organizations are needed for future issues.

Editorial Committee

#### "CRIME AGAINST NATURE"

(Highlights of Dr. Fred Knelman's Address to the Annual Meeting of the Conservation Council of New Brunswick at UNB, Saint John, Dec. 6, 1974. Reprinted from <a href="Maintaintenantoring">CCNB News</a>, Vol. 6, No. 1, Feb. 4, 1975).

"We are committing a crime against nature," says Dr. Fred Knelman in reaction to present trends in energy development in relation to the environment.

We are faced with a huge amount of waste, he said, noting that "by known techniques and technology, ones that are totally proven in terms of programming, we could make an enormous saving without profound changes in life style or attitude, simply by 'cutting the fat'."

Speaking at the fifth annual meeting of the conservation council, Dr. Knelman said there is a tendency on the part of our governments, our utilities, the nuclear establishment, and even our universities, to think that there is no option except for the proliferation of nuclear power. The large-scale development of nuclear power is almost a <u>fait accompli</u> in our society, he said.

Dr. Knelman described an option to the self-fulfilling industrial projections for energy use in what he terms the "technical fix scenario." He demonstrated that simply by applying proven technology energy usage could be reduced as much as 50 percent by the year 2000. Eventually, a zero energy growth may have to be imposed as a social standard, Dr. Knelman speculated.

What is needed, he said, is a sound and rational energy policy - one that links energy and environment.

"They are causally and integrally linked. We cannot have a policy for the environment and one for energy with competing jurisdictions."

The New Brunswick Naturalist is published six times a year by the New Brunswick Federation of Naturalists, 277 Douglas Avenue, Saint John, N.B. Editorial Committee: David Christie, Mary Majka, Peter Pearce. Federation membership is available at S2 (individual or family) or \$1 (student to age 18). Library subscription rate: S2 per year. Fees should be directed to the treasurer, Jim Wilson, R.R. 3, Rothesay, N.B.

"When you discover that you have multiple options, then you have truly an energy policy and environmental policy integrated ... there are real tradeoffs ... not self-fulfilling prophecy."

Dr. Knelman said we must challenge the <u>fait accompli</u> attitude. There must be adequate time for impact studies in nuclear developments, for example, and we must look at costs other than market costs.

"What is the cost of degrading water? What is the cost of degrading siz? What is the energy used? What is the net energy value?"

Dr. Knelmer points a finger at Point Lepreau in this respect. "There was no indepth environment impact, social impact or ecology assessment of any nature. They did it in an awful hurry and under such urgency that in the course of the very study they had already ordered a \$30 million turbine."

"Utilities are the most beautiful example of institutions that perpetuate themselves. Unless we really do have options ... this sort of internal dynamics of our institutions is suicidal."

### ENVIRONMENTAL GROUPS FORM INTERNATIONAL COUNCIL

Toronto - Representatives of major conservation organizations in Canada and the United States agreed November 24 to form a Canada - United States Environmental Council.

The 14 organizations (including the Canadian Nature Federation, Canadian Wildlife Federation, Pollution Probe - Toronto, National Audubon Society, Sierra Club and The Wilderness Society) with a combined membership of approximately 1,000,000, agreed to meet again in Washington, D.C. in March.

"This may be the most significant organizational development in the conservation movement in North America in many years." said Dr. Ian McLaren, of Hallfax, president of the Canadian Mature Federation, spokesman for the Canadian organizations represented at the three-day meeting.

"It is critically urgent that environmentalists in Canada and the United States join together in close co-operation to meet head-on a host of critical environmental issues of interest to both countries," said Stewart Brandborg, of Washington, D.C., Executive Director of The Wildnerness Society. "This step in bringing the Council into being is a major accomplishment. We have an excellent beginning for a strong working relationship between citizen groups in both countries to represent the public interest as opposed to the strong influences of entrenched special interest groups."

Following the meeting representatives issued a communique, containing statements on arctic fossil fuel resources, the Garrison Diversion Project and oil transport through the Straits of Juan de Puca.

### AUDITOR'S REPORT

10110-124 Street, Suite 201 Edmonton, Alberta

To the New Brunswick Federation of Naturalists:

As auditor appointed to the Federation, I have checked the books and the financial statement of the Federation for the period January 1 to December 31, 1974.

I am in complete agreement with the figures shown.

With best wishes

February 5, 1975

Cris Tull

### FINANCIAL STATEMENT, JANUARY 1, 1974-DECEMBER 31, 1974

Cash on hand, Dec. 31, 1973				622.51
Receipts				
Subscriptions for 1974:	314	\$ 628.00		
Regular @ \$ 2,00	7	7.00		
Student @ \$ 1.00 Library @ \$ 2.00	9	18.00		
Library & \$ 2.00	330	\$ 653,00		
Subscriptions for 1975:	22	44.00	\$ 697.00	
Regular @ \$ 2.00	44	44.00	3 697400	
Bank account interest			66,28	
Exchange on American cheques			.08	
Total Income			\$ 763.36	
Disbursements				
N.B. Naturalist:	- 110 00			
Postage	\$ 117.00	\$ 246.98		
Stationery	129.98	20.96		
General Postage		1.50		
Printing		5.24		
Treasurer's Supplies Telephone calls (miscellaneous	)	21.90		
Atlantic Naturalists' Policy S	ession:			
Expenses	\$1231.62	2023 2227		
Less Government Grant	1100.00	131.62		
Annual General Meeting:				
Hall Rental	5.00			
Postage, publicity	29.00	00.01		
Telephone and misc.	5.01	39.01		
Machias Seal Island Trips:				
Boat fare	95.00	15.00		
Receipts from passengers	80.00	15.00		
Memberships:	20.00			
CNF, CCNB - 1974	30.00	55.00		
CNF - 1975	25.00	55.00		
Total disbursements:			\$ 537.21	
Net increase in funds during t	he year			\$ 226.15
Cash Balance on Hand, December	31, 1974	C	Mul	\$ 848.66
		-	Jim Wilson	
			/Treasurer,	NBFN/FNNB.

### BLACK DUCK DOONED?

In "The Changing Seasons" report of the October 1974 issue of American Birds (28:884), Junes Tate, Jr. suggests that "the Black Duck is probably doomed" through hybridization with the Hallard which is extending its range as a result of the opening up of eastern forests. In southern Ontario, the Black Duck is now much outnumbered by Hallards, and many Maine and New Hampshire Blacks have Hallard features.

Atlantic Cenada's Black Ducks still seem relatively pure, though they have absorbed the blood lines of many pen-reared Mallards released by hunting enthusiasts. The spreading trend of Mallard domination should be watched for; our local breeding population of Black Ducks may be susceptible, although Newfoundland, Labrador and eastern Quebec should be pretty inhospitable for Mallards. - D.C.

### WATERFOWL, OIL AND TIDAL POWER

A recent paper by two biologists of the Canadian Hildlife Service should be of interest to NBFM members. "The Potential Influence on Waterfowl of Port and Tidal Power Development in the Bay of Fundy" by P.A. Pearce and A.D. Smith (Canadian Wildlife Service Report Series 29, 1974, H. Boyd, editor) discusses the effect on geese and ducks of deep water oil ports (existing and proposed) and of tidal power generation facilities.

The authors report that increased risk of cil spills could have important effects on waterfowl while implementation of the tidal power proposals would adversely affect birds by substantially decreasing the amount of tidal marsh and mudflat. By continental standards, few ducks and geese will be affected but the Bay of Fundy may be more important to sea-birds and shorebirds, about which less is known. Surveys inaugurated in 1974 should considerably improve our knowledge of the use made by shorebirds of the littoral zone of the Bay of Fundy. D.C.

### 1974 CHRISTNAS BIRD COUNTS

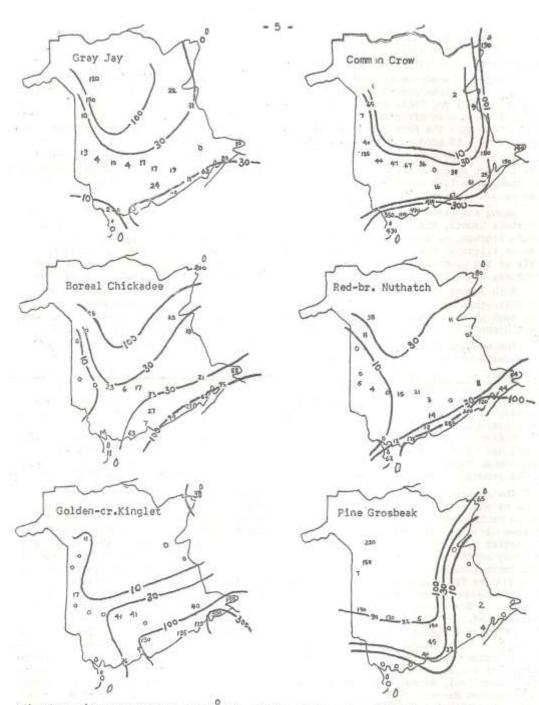
### David Christie

Although Movember was somewhat cool with two major snow storms near the end of the month, December temperatures averaged two to four Fahrenheit degrees above normal and only the extreme northern part of the province received large snowfalls (47.6 inches at Charlo). Thus, a normal variety of species were discovered on the 27 Christmas Bird Counts this winter.

It is disappointing not to have counts from Dalhousie and from Grand Hanan but four former counts, Plaster Rock, Nackawic, Sussex and Riverside-Albert were reported again. In total, 384 perticipants spent 660 perty-hours afield and reported from 113 feeding stations, tallying 49,688 birds of 103 species. Another six species were seen during the count period but not on count day.

The most unusual birds found were individual Carlina Wrens at St. Andrews and Saint John, respectively the first and second records of that species in the province, and a Pine Warbler at Sackville, a first for Christmas Bird Counts in New Brunswick.

Several species of trees, especially the spruces and fir, had an excellent crop of seeds. The same situation must have applied widely throughout the boreal forest for there were no marked invasions of winter finches. On the other hand the abundance of Black-capped Chickadees and Rod-breasted Nuthatches was undoubtedly related to the cone crop. Both were at their highest level for the period 1960-1974. The chickadee abundance was widespread but nuthatches were especially numerous only along the extreme southern edge of the province and to a lesser degree at Nictau and Lambous in the north. (See day). Golden-crowned Kinglets, confined



Abundance (individuals per 100 hurs) of six species, from 1974 Christmas Bird Count data in New Brunswick. (Figures for the jay, chickadee and nuthatch include an allowance of 2 hours for each bird-feeder reporting; figures for crow, kinglet and grosbeak based on field party-hours alone.)

almost entirely to southeastern and south-central N.B., wore alsofound in record numbers. Of the other small forest birds, Boreal Chickadees were in fairly good numbers and White-breasted Nuthatches and Brown Creepers were about average.

Three-toed woodpeckers were noted more frequently than normal. Especially interesting is the seldom reported Northern Three-toed, the one with the barred back, seen at Hartland (2) and Mactaquac. At Sackville, four of them were discovered, with Blackbacks, several days after the count. (Those birds are still there, in a spruce woods 150 yards behind the Fort Beausejour Museum.) The more common Downy and Hairy Woodpeckers were also in good numbers this year.

The Blue Jay is yet another species found in high numbers, 1972 being the only year to have exceeded this one. Gray Jays and Ravens were recorded in average numbers but Crows were less common than usual. Brown-headed Cowbirds and Red-winged Blackbirds were present in good numbers. Grackle numbers were average.

Among the finches, Evening Grosbeaks were in average numbers. Interestingly, on Christmes Counts, they have not shown any marked fluctuations for the past six years. Purple Finches, as usual, were scarce, 36 at Woodstock being the only significant count. A minor flight of Pine Grosbeaks affected mostly the northwestern and west-central parts of the province. Common Redpolls were scarce and Pine Siskins were barely more numerous, but there was a fair scattering of Goldfinches in the southern counties.

Both Juncos and Tree Sparrows were in low numbers, while the less commonly wintering White-throated, Fox and Song Sparrows were about average. Although Snow Buntings were seen in normal numbers, not a single Lapland Longspur was spotted with them. Only seven Horned Larks were seen; perhaps the November snows pushed most of them south.

The numbers of Robins were rather low this year and no Bohemian Waxwings were noted, although two Cedars were discovered at Plaster Rock.

Hawks and owls were not particularly common but Northern Shrikes occurred on 18 counts. The Snowy Owl flight that has been very large on the prairies this year was recorded in only a minor way by our counts — a total of 4 birds. Ten Bald Eagles were reported on five counts and, very pleasingly, five additional areas noted eagles during count period.

Ruffed Grouse seem to be at a high point of their population cycle; southern N.B. counts had their best year for them for the period 1960-74. For some reason, few Ring-necked Pheasants were seen; they are normally more apparent when lots of snow is on the ground, so possibly this year was a bit on the open side for them to be conspicu-

ous. The numbers of waterbirds are not as easily comparable from year to year as are those of the widely distributed landbirds. Recorded in relatively good numbers were Horned Grebe, Canada Goose, Black Duck, Bufflehead, Common Eider and Purple Sandpiper, whereas Glaucous Gull, Black-legged Kittiwake and Raxorbill were scarcer than normal. The latter two species apparently were concentrated on the Nova Scotia side of the Bay of Fundy at the time of the counts. A good number of Black Scoters (100) was noted at Cape Tormentine but the Fundy counts had fow. Iceland Gulls were found in reasonably good numbers from Moncton to Saint John but were rather low on the east coast. Two of the less common waterfowl found were a Harlequin Duck and 4 King Eiders, both at St. Andrews. A Snow Goose and 3 Canvasbacks were observed in the Saint John area during count period.

Of great interest are the 21 Yellow-rumped (Myrtle) Warblers on the Cape Tormentine count, an amazing number during December in New Brunswick. Individual Myrtles were found on four other counts (Fredericton, Hampton, Moncton, St. Andrews) this year. Additional records of the less hardy or somewhat unusual species included Palm Warbler (Sackville, Cape Tormentine), Savannah Sparrow (Sackville), Chipping Sparrow (Sackville, St. Andrews), White-crowned Sparrow (Fredericton), Cardinal (Saint John), Winter Wren (Fundy Park), Ruby-crowned Kinglet (Cape Tormentine, Sackville), Belted Kingfisher (Hampton), Mourning Dove (16 on 3 counts), Am. Kestrel (Hampton, St. Andrews), Pintail (Sussex, Albert) Hooded Merganser (Nictau) and Pied-billed Grebe (Jenseg).

Christens Bird Counts - Dao. 14-31, 1974

# - record high for the province ## - new species for New Brunswick counts
90 (number underlined - record high for the area
Note: Underlining of records is indicated only for area surveyed four or nore years.

HCMN - RHEY HROCK (4th year) - Dec.31; 7:45 cm to 5:15 pm. Clear a.m., partly clludy p.m.; temp. 76-220; wind N. 0-5 mph. 18" mnow cover; Tobique River open in a mumber of places. 7 observers in 2-3 parties; 8 at 4 feeders. Tot. party-hours, 18% (11% on foot, 7 by car); tot. party-miles, 73% (9% on foot, 64 by car).

Com. Goldeneys, 20; Hooded Merganser, 1; Com. Merganser, 1; Bald Engle, 1; Filested Woodpecker, 1; Hairy Woodpecker, 17; Down Woodpecker, 6; Black-tacked 3-toed Wiphr., 2; Gray Jay, 32%; Blue Jay, 88; Reven, 63; Black-capped Chicandee, 26; Borsel Chickedee, 25; White-br. Buthatch, 9; Had-br. Buthatch, 10; Golden-cr. Kinglet, 2; N. Shrike, 1; House Sparrow, 72; Grackle, 1; Evening Grosbenk, 5; Furgle Finch, 3; Pine Grosbenk, 40; Pine Siskin, 58; Goldfinch, 11. Total; 24 species, 56; birds. (Seen in count period; Buffed Grouse). David Christie, Alex & John Fraser, Halph & Gladys Howard, Mr & Mrs John McCarty, Erwin Isndener, Chris Majka, Dr. M. Najka, Mark Majka, Mary Majka, Wilms Miller (compiler), Blake & Margaret Sutherland.

FI STEE ROLF (3rd year) - Dec.30; 8:30 am to 6 pm. Cloudy with light snow till mid-pm; temp. 26°-32°; wind 0.5 mph. 24" snow cover. 4 observers in 2 parties; 1 at feeder. Tot. party-hours, 15% (6% on foot, 9 by car); tot. party-miles, 134 (10 on foot, 124 by car).

Buffed Grouse, 4; Phensant, 2; Rock Dove, 14; Bairy Woodpecker, 11; Downy Woodpecker, 11; Gray Jay, 23; Blue Jay, 72; Baven 73; Grow, 10; Black-capped Chicksdoe, 68; Red-br. Suthatch, 2; Cedar Waxwing, 2; Starling, 16; House Sparrow. 281; blackbird sp. (incl. Rusties), 16; Cowbird, 11; Pine Grosbeak, 23; Tree Sparrow. 2; Snow Bunting, 100. Total: 19 species, 741 birds. (Seen in count period; Sha-shet Owl, Goldfinch.) Mrs. Maurice Biomes, Erwin Landauer, Market Bundauer, Mrs. Stephen Rabstich (compiler), Mrs. Jack Reynolds.

FERRIS-ANDOWNE (6th year) - Dec.28; 8 an to 5 pm. Clear; temp. 20°; wind 2-4 mph. 12" or norm snow cover; rapid water open. 5 observers in 3 parties; 2 at feeders. Yet, party-hours, 27 (6 on foot, 21 by car); tot. party-miles, 66 (1 on foot, 65 by car).

Com. Merganser, 3; Buffed Grouse, 1; Hock Dove, 32; Batry Woodpecker, 5; Domy Woodpecker, 4; Crmy Jay, 3; Blue Jay, 47; Eaven, 24; Crow, 2; Black-capped Chickedee, 39; Boreal Chickedee, 2; S. rling, 14; House Sparrow, 85; Evening Grosbeak, 10; Fins Grosbeak, 2; Junco, 2; Snow Bunting, 9. Total; 17 species, 284 birds. (Seen in count period; Bald Engle, Spruce Grouse, Pheasant.) George Baird, Emery Campbell, Ellsworth Demarchant, Fred Tribe, Murray Watters

In TIAND (4th year) - Dec. 24; 8:30 cm to 5 pm. Ciludy; temp. 270-300; wind NM. 1-3 mpb. 4"-10" snow cover; river open with ice fires. 4 observers in 3 parties; 1 at feeder. Tot. party-hours. 10 (cm foot); tot. party-miles. 9 (cm foot).

Filested Woodpecker. 1; Hairy Woodpecker. 5; Downy Woodpecker. 2; Ear ern 3-toed Wightr. 2; Blue Jay. 3; Haven, 106; Crow. 4; Black-capped Chickedes. 59; Robin, 1; Golden-or. Kinglet. 2; H. Shrike. 1; Starling. 6; House Sparrow. 9; Grackle. 1; Evening Grosbenk. 14; Goldfinch. 1; finch sp. (Bodpoll/Siskin). 5; Tree Sparrow. 4; Snow Bunting. 32. Total: 19 species. 258 birds. (Seen in count period: Ruffed Grouse, Themsunt. Rock Dove. Boreal Chickedes. Red-br. Nuthatch.) Dorald Kinball, Mrs. C.A. Higby, Michael Rigby (compiler). Wondell Shaw.

WOODSTOOK (11th year) - Dec. 27; 8:30 cm to 4:30 pm. Cloudy with most tered more flurries; temp. 18°; wind, SW, 10 mph. 3"-5" enow and drifts; water frozen. 6 observers in 2 parties; 12 at 11 feeders. Fot. party-hours, 15 (4 cm foot, 11 by car); tot. party-miles, 150 (7 cm foot, 143 by car).

Red-tailed Back, 1; hask sp., 2 (1 Marsh?); Buffed Grouse, 1; Fheatant, 2; Rock Dove, 201; Bairy Woodpecker, 3; Downy Moodpecker, 9; G y Jay, 5; Blue Jay, 102; Baven, 36; Cros. 19; Black-capped Chickedee, 68; Bed-br. Muthatch, 2; Starling, 71; House Sparrow, 234; Grackle, 3; Cowbird, 3; Evening Grosbeak, 58; Purple Finch, 36; Pine Grosbeak, 29; Com. Redpoll, 27; Tree Sparrow, 2. Total: 22 species, 914 birds. (Seen in count period: Bald Bagle, Barred Oel, M. Shrike.) Mrs. Randall Dyer, Mrs David Fry, Mrs Marjorie Gray, Ken Huner, Stephen Homer, Marray Hubbard, Mrs. W.H. Jones, Mrs Chas. MacDorald, Mrs Downld Mixon, Dr & Mrs G. Unstead, Eric Bandall, Mr & Mrs Robert Speer, Robert J. Speer (compiler), Mrs Cecil Stewart, Mrs T.M. Banton, Mrs Chas. Wabb.

NACEANIC (2nd year) - Dec. 30; 7:45 am to 4:30 pm. Overcast with snow flurries in am., clearing in pm.; temp. 31°; wind light, to 10 mph. 6" snow in fields; fresheater frozen, emorph rapids. 15 observers in 4-5 partles; 2 at feeders. Tot. party-hours, 22½ (10 on foot, 12½ by car); tot. party-miles, 188 (13 on foot, 175 by car).

Bed-twided Brak, 1; Ruffed Grouss, 2; Rock Dove, 53; Hairy Woodpecker, 6; Dosny Woodpecker, 1; Gray Jay, 1; Blue Jay, 162; Raven, 78; Crow, 10; Black-capped Chicksdes, 119; White-br. Ruthratch, 2; Red-br. Muthatch, 1; Brown Greeper, 3; N. Shrikes, 2; Starling, 72; Houss Sparrow, 186; Evening Grosbook, 9; Pine Grosbook, 20; Red Crossbill, 20. Total: 19 species, 748 birds. (Seen in count period: Piheated Woodspeker, Rusty Blackbird, Grackle, Junco, Tree Sparrow, Show Bunting.) David Aleard, Ford Aleard (compiler), John Alward, Mark Aleard, Claira Cronkhite, David Givan, Ardem McEleain, Bermy Sharpe, Betty Rocksell, Robert Squires, W.A. Squires, Lulu Staire, Mrs Jack Thompson, Mancy Thompson, Mollie Trail.

STANLEY (2nd year) - Doc. 22; 10 am to 4:05 pm. Light overcast with mist in pm.; sump. 200.35°; wind mil. Light snow cover, shushy in spots; Standard running with ice on banks. 1 observer. Tot. party-hours, 6 (1 on foot, 5 by car); tot. party-miles, 83 (2 on foot, 81 by car).

hank sp. (Marsh?), 1; Blus Jay, 14; Baven, 1; Fine Grosbeak, 10; Com. Hadpoll, 20; finch sp., 2. Total: 6 species, 50 birds. (Seen in count period: Robin.) Harold Hathaway. \* House Sparrow, 2;

NACCASIAC (3rd year) - Doc.21; 8:15 on to 4:15 pm. Overcast, becoming sunny after 11:05; temp.: 17°F wind: 2.3 mph. 6" snow cover; water open below dam. 6 observers in 4 parties; 1 at feeder. Total party-hours, 28 (9 on foot, 19 by car); total party-hiles 210 (15 on foot, 195 by car).

Black Dack, 155; Common Goldenoye, 34; Common Merganser, 46; Buffed Grouse, 2; Great Black-backed Gull, 12; Herring Gull, 5; Rock Dove, 31; Pilested Woodpecker, 1; Hairy Woodpecker, 6; Domy Woodpecker, 5; Forthern 3-tood Wipkr., 1; Gray Jay, 3; Blue Jay, 76; Baven, 15; Crow, 13; Black-capped Chickedee, 60; Bereal Chickedee, 10; White-breated Muthatch, 2; Brown Creeper, 1; Robin, 1; Starling, 4; House Sparrow, 107; blackbird sp., 24; Evening Grostoak, 4; Purple Finch, 2; Fine Grostoak, 37; Pine Siskin, 76; Geldfinch, 67; Juneo, 6; Tree Sparrow, 14; Song Sparrow, 3. Total; 31 species, 823 birds. (Seen in count period; Bald Bagle, Sprace Grouse, Buby-crowned Kinglet). Dave Algar, Steve Clayden, Cliff Jones, Bruce Martin & friend, Ed Pelger (compiler).

FREIRRICTCN (19th year) - Dec. 26; 8 am to 4.30 pm. Surmy; temp. 3°-18°; wind: NW, 15-24 mph. 1" snow occur; waters 99% frozon. 33 observers inl4 parties; 13 at feeders. Total party-hours, 58 (26 on foot, 32 by car); total party-miles 299 (42 on foot, 217 by car). Common Goldenaye, 26; Common Marganser, 26; Rough-legged Hawk, 1; Buffed Grouss, 16; Great Black-backed Gull, 12; Rock Dove, 504; Great Horned Oxl.1; Pilested Woodpacker, 1; Buffy Woodpacker, 14; Downy Woodpacker, 20; Bray Jay 3; Blue Jay, 131; Baren, 130; Crow, 39; Black-capped Chicksdee, 251; Boreal Chicksdee, 5; White-broasted Muthatch, 6; Red-broasted Muthatch, 13; Brown Creeper, 2; Golden-crowned Kinglet, 24; Starling, 1065; Yelliw-numped Warbler, 1; House Sparrow, 1992; Red-winged Blackbird, 1; Busty Blackbird, 1; Cowbird, 7; Evening Grosbesk, 143; Pine Grosbesk, 13; Common Redpoll, 35; Pine Siskin, 27; Goldfinch, 10; June, 11; Tree Sparrow, 21; White-owned Sparrow, 2; White-throated Sparrow, 7; Fan Sparrow, 2; Song Sparrow, 4; Snow Bunting, 8. Total; 38 species, 4577 birds. (Seen in count period; Black Duck, Buld Bagle, Phasemat, Robin, Grackle, Turple Finch). B. Bartlett, W. Buser, M. Comeron, G. Clayden, S. Clayden, H. Convery, A. Dean (compider), K. Bean, Miss E. Dean, Miss E. Dean, Miss E. Dean, Miss E. Bean, F. Dilworth, T. Bilworth, B. Gibson, H. Hathessy, C. Jones, Mrs. L. Bean, P. Dilworth, T. Bilworth, B. Squires, E. Squires, H. Squires, F. Squires, R. Squire

JENSED (12th year) - Doc. 14; 8.05 as to 4.40 pm. Dull, block; temp. 23°-33°; wind: SW. 0-5 mph. 2" - 3" snow cover. Still water frezen; rivers open. 15 observers in 4 parties; 1 at feeder. Total party-hours, 22th (4 on foot, 18th by car); total party-niles 196 (5 on foot, 191 by car).

Common Loon, 1; Fied-billed Grobe, 1; Common Coldenaye, 19; Common Margenser, 42; ducks sp., 5; Bald Dagle, 4; Great
Black-backed Gull, 5; Herring Gull, 13; gull sp., 1; Hock Dove, 3; Great Howned Cul, 1; Filested Woodpecker, 1;
Bairy Woodpecker, 4; Downy Woodpecker, 4; Blue Jay, 55; Gray Jay, 4; Baven, 21; Crow, 8; Black-capped Chickedee, 52;
Berwal Chickedee, 4; Red-breasted Mathatch, 5; Golden-cromed Kinglet, 9; Morthern Shrike, 3; Starling, 10; House
Sparres, 277; Pine Grosback, 1; Tree Sparres, 5; Song Sparres, 1; Gnow Bunting, 450. Total: 27 species, 1011 birds.
(Seen in count period: Snowy Cul, White-breasted Mathatch, Brown Crosper, Rvening Grosback, Robin, Yelhew-rusped
Wardler, Goldfirch). Bay, 4 Mrs. C.E.J. Cragg, 4,4. Dean, Houseth Dean, Enid A. Inch, Mr. 4 Mrs. Stephen McAllister,
Melvin B. Moore, Bettie Moore (compiler), Feter A. Pearce, Dr. 4 Mrs. W. Austin Squires, Feter Taylor, Osen Mashburn
and Susan Washburn.

CAMERICE-NARROWS (5th year) - Dec. 28; 8 mm to 4.45 pm. Sunny; temp. 23°-27° wind: NW, 10 mph. 2" enow on grand, Inks & brooks frozon. 11 observers in 3 parties; 10 mt feeders. Total party-hours, 16½ (7½ on foot, 9 by cas); total party-nilss 116 (9 on foot, 107 by car).

Buffed Grouse, 2; Great Horned Ocl, 1; Bairy Woodpecker, 3; Domy Woodpecker, 10; Grey Jay, 6; Blue Jay, 71; Baven, 51; Black-capped Chickedes, 120; Boreal Chickedes, 12; Bed-breasted Buthatch, 1; Brown Greeper, 2; Golden-cromed Hinglet, 6; Starling, 3; House Sparrow, 167; Grebird, 1; Pine Grosbeak, 22; Pine Siskin, 1; Goldfinch, 16; White-winged Grossbill, 4; Tree Sparrow, 8; Snow Bunting, 50. Total: 21 species, 557 birds. (Seen in count period: Capada Gross, Evening Grosbeak). Mrs. Barry Belyea, Barold & Marion Belyea, Anna Belyea, D.G. Carpenter, Mrs. Kenneth Carpenter, Mrs. Iswence Carpenter, Mrs. Vernon Connell, Enid M. Inch (compiler), Shoda G. Inch, Mrs. John Perry, Mrs. William MacConnachie, Mrs. R.G. Robinson, Mrs. Kynest Sypher, Niven & Joyce Tharme, Nelson Thorne, Mrs. Frank E. Webb, Mrs. George Williams, Miss Elizabeth Worden.

HANNOND RIVER-HAMPING Grd Year) - Dec. 29, 7.25 cm to 3.45 pm. Surry in em, cloudy later; temp. 21°-27°; wind: 0-10 mph. Snow cover 6" - 8". Virtually all water fromen. 10 phearvers in 4 parties; 5 at feeders. Total partyhours, 27 (12 cm foot, 15 by car); total party-miles (212g (17g cm foot, 195 by car).

Common Goldeneys, 7: Common Mergansor, 6; mergansor sp., 3; Gosfawk, 1; Rough-Logged Hawk, 2; Kestrel, 1; Great Black-backed Gull, 1; Herring Gull, 1; RockDore, 51; Kingfisher, 1; Filested Woodpecker, 1; Hariry Woodpecker, 10; Downy Woodpecker, 18; Blk-backed 3-tood Wdpkr., 1; wdpkr. sp., 2; Herned Lark, 2; Blue Jay, 125; Haven, 95; Crow. 6; Eleck-capped Chickedee, 150; Hereal Chickedee, 10; Bed-breastedMuthatch, 5; Brown Creeper, 4; Robin, 3; Golden-crowned Kinglot, 36; Northern Shrike, 2; Starling, 164; Tellow-rumped Warbler, 1; House Sparrow, 454; Red-winged Blackbird, 6; Grackle, 2; Cowbird, 56; Evening Crosboak, 83; Pine Grosboak, 12; Tine Siskin, 2; Coldfinch, 101; White-winged Crosebill, 3; Junco, 15; TreeSparrow, 47; White-throated Sparrow, 3; Song Sparrow, 1; Snow Bunting, 26. Total: 41 species, 1520 birds. (Seen in count period; Bald Engle, Sprace Grouse, Buffed Grouse, Mourning Dove, Great Horned Owl, Barrid Owl). Bick Blacquievo, Davo Christie, DavidChrk, Reul Clark, Lowis Darling, Roland Darling, Mrs. B. Holt, Mrs. Paul Kalbaugh, Mary Majka, Dr. Majka, Don Mohlpine, Charles Wilson, Stuart Milis, Jean Wilson, Jin Wilson (compiler).

SUSSEX (2nd year) - Dec. 14; 7.35 an to 4.30 pm; cloudy, very light encw flurries; temp. 25°-30°; wind: NE, 0-6 mgh. Still water skimmed, very scattered patches of snew in shaded areas only. 6 observers in 2 parties. Total party-hours 10.5 (2.5 on foot, 8.05 by car); total party-niles 124.5 (3.5 on foot, 121 by car).

Black Dock, 8; Pintail, 1; Common Morgansov, 6; hand sp. (Sharp-shinned ?). 1; Hed-tailed Back, 1; Ruffed Grouse, 2; Herring Call, 1; Rock Dove, 94; Shory Owl, 1; Pilested Woodpocker, 1; Heiry Woodpocker, 2; Downy Woodpocker, 3; wdpck, sp. 1; Grey Jay, 2; Blue Jay, 30; Reven, 90; Crow, 4; Black-capped Chickedec, 21; White-breasted Mathatch, 1; Goldenercomed Einglet, 14; Starling, 347; House Syarrow, 472; Rusty Blackbird, 1; Cowbird, 60; Tree Sparrow, 1. Total: 24 species, 1155 birds. Ton Anderson, Mrs. D. Bexter, Mrs. Wh. L. Bickford, Hearth Deichmenn (compiler), Beryla Gorbes, Art Batenberg, Micke Entenberg.

IIS LAMBLE-SHIFFECAN (7th year) - Dec. 28; 9 am to 4.45 pm; summy; temp. 22°; wind; 15-20 mph. 15" - 20" snow cover; see frozen north side of inland only. 5 observersin 2 parties. Total party-hours 14 (3 on foot, 11 by our); total party-niles 127 (3 on foot, 124 by our).

Common Golden eye, 1; Oldsquaw, 3; duck sp., 1; Iceland Gull, 7; Grout Black-backed Gull, 5; Herring Gull, 5; Rock Dove, 6; Baven, 5; Crow, 2; Plack-capped Chickedoo, 43; Horsal Chickedoe, 28; Rod-broasted Muthatch, 11; Golden-cromed Minglet, 5; Northern Shrike, 1; Starling, 64; Grackle, 1; Evening Groebask, 2; Pine Groebask, 9; Maitewinged Crossbill, 2; fixed sp., 25; Snow Bunting, 7. Total: 19 species, 258 birds, (Seen in count period: Bairy Weedpecker). Hilaire Chiasson (capilar), Hossahline Chiasson, Adrien Dugsay, Armel Guigard, Guy Backe.

MINAMENT (MENCASTER-CHATER), 3rd year). Doc. 21; 7.45 cm to 5 mm. Claudy, light snow until 9.00 cm; temp. 32°34° wind: 1-5 mph. 2 ft. encw. river partly of m. 13 observers in 6 parties; 6 at feeders. Total party-hours.
33 (18 cm feet. 15 by ear); total party-miles 22 (17 cm feet. 201 by ear).

Black Duck, 1; Common Morgansor, 12; Rod-breasted Morgansor, 8; Bald Ragle, 1; Spruce Grouse, 2; Ruffed Grouse, 9; Great Black-backed Gull, 325; HerringGull, 110; Hock Bore, 67; Hairy Woodpocker, 2; Downy Woodpocker, 6; Gray Jay, 10; Blue Jay, 95; Raven, 58; Cross, 1; Black-capped Chickadee, 70; Boreal Chickadee, 15; White-breasted Ruthatch, 2; Bod-breasted Ruthatch, 5; Brown Crosper, 3; Northern Shrike, 1; Starling, 86; House Sparrow, 1200; Red-winged Blackbird, 2; Grackle, 3; Cowbird, 13; Evening Groeback, 42; Common Bedpell, 80; Tree Sparrow, 10; Snow Bunting, 1; Total: 30 species, 2210 birds. (Seen in count period: Filested Woodpecker). Carl Anderson, John Bothell (compiler), Marilyn Boston, Edith Boudracu, Roger Callant, John Konting, Stephan Landry, Debbie LeHaup, Hasen Loban, Amer. MacDonald, Oarl Perry, Norma Rogers, Boug Underhill, Elayne Walker, Harry Walker, Jan Walker, Winnie Walker, Ian Ward, You Wholan

KOUCHBOUGHAC MATICMAL BART (5th year) - Dec. 27; 8:30 ma to 4 pm. Temp. 20°-26°; wind W, 10 mph. 10°-12° encw cover; fresheater frozen. 7 observers in 3 parties. Fot. party-hours, 228 (11 on foot, 11% by car); tot. party-miles. 96 (25 on foot, 71 by car). Cldsquaw, 50; White-winged Scoter, 1; nerganeer sp., 2; Claucous Cull, 1; Great Black-backed Cull, 42; Herring Cull, 63; Gr. 7 Jey. 7; Dine Jey. 2; Reven, 12; Crow, 2; Black-capped Chickedee, 36; Borsal Chickedee, 4; mithatch sp., 1; N. Shrike, 2; Starling, 50; House Sparrow, 11; Evening Grosbeak, 6; Snow Bunting, 6. Total; 18 species, 298 birds. Jeannita & Roger Daigle, John Kesting, Homa Rodgers, Kligaboth Roccey (compiler), Dan Walker, Lyle Walker.

CLE TOMORTHE (14th year) - Dec. 14: 7.30 cm to 4.00 pm; 12 observers in 5-11 parties. Total party-hours, 50 (35 cm foot, 15 by car). Fotal party-miles 185 (43 cm foot, 142 by car). Cloudy all day, temp. 25°-30°; wind N 8-10 mph decreasing to 5-8 mph by 1400 hours. Ground bare and from the form retailly frozen, salt water

Bed-necked Grebs, 2; Double-created Cormoranh, 2; Comma Lom, 1; Red-throated Loon, 1; Carada Goess, 194; Black Duck, 205; Greater Scaup, 18; Comma Goldenoye, 337; Oldaqura, 429; Comma Eider, 30; White-winged Scoter, 251; Surf Scoter, 11; Black Scoter, 100; Comma Hergenser, 54; Red-broasted Margenser, 90; ducks sp., 45; Goshawr, 1; Rough-legged Back, 1; Ruffed Grouse, 7; Phossant, 2; Icelandon11, 38; Great Black-backed Oull, 49; Herring Gull, 233; Ring-billed Gull, 51; Black-legged Kittiwakes, 3; Rock Bove, 6; MourningDove, 3; Pileated Woodpecker, 1; Hairy Woodpecker, 2; Downy Woodpecker, 11; Horned Lark, 1; Gray Jay, 5; Blue Jay, 95; Reven, 34; Crox, 70; Black-capped Chickedee, 172; Boreal Chickedee, 44; Red-broasted Buthatch, 27; Golden-c owned Kinglet, 66; Ruby-crawed Kinglet, 2;

Northern Shrike, 1; Starling, 52; Tellow-rumped Marbler, 21; Palm Marbler, 1; House Sparrow, 325; Busty Elsekbird, 1; Grackle, 3; Cowbird, 240; Evening Grosback, 3; Goldfinch, 15; Junco, 16; Tree Sparrow, 23; White-throated Sparrow, 2; Song Sparrow, 1; Snow Dunting, 450; songbirds sp., 6. Total: 54 species, 3,854 birds. Bill Barrow, Rick Elsequiere, Faul Hogsard, Gordon Burns, Ian Cameron, Hinrich Harries, Barry Hughson, Elemer Mages, Bill Prescott, Al Smith (compiler), Stuart Tingley, Brian Trenhelp.

MONOTOF (15th year) - Doc. 15; 8 am to 5 pm. overcast, coomsional fine snow; temp. 25°-26° winds 10-15 mph. Ground mostly bare, strongs flowing. 15 observers in 7 parties, 11 at 6 feeders. Total party-hours 41 (23 on foot, 18 by car); total party-niles 253 (26 on foot, 225 by car).

Canada Goose, 31; Mallerd, 207 Black Duck, 9; Common Merganser, 26; Bed-tailed Hask, 1; Buffed Grouse, 3; Physisant 7; Glaucous Gull, 1; Iceland Gull, 59; Great Black-Backed Gull, 875; Herring Gull, 1,484; Reck Dove, 97; Bairy Wood-pecker, 3; Rosmy Woodpecker, 12; Blue Jay, 56; Haven, 72; Grove, 74; Black-Capped Chickades, 96; Boreal Chickades, 11; Bed-breasted Nuthatch, 4; Brown Grouper, 1; Hobin, 4; Golden-cromed Kinglet, 20; Northern Shrike, 1; Starling, 686; Kyrtle Marbler, 1; House Sparrow, 427; Hed-winged Blackbird, 1; Gowbird, 15; Evening Grosbesk, 150; Fine Grosbesk, 1; Common Redwell, 6; Goldfinch, 16; White-winged Grossbill, 3; Junce, 3; Tree Sparrow, 10. Total: 36 species, 4267 birds. (Seem in count period; Accipiter, sp.). Mr. & Mrs. Hemilton Buird, George Haine, D.S. Christie, Mr. & Mrs. Henry Counter, Brian Dalzell, Dr. & Mrs. Arthur Dobson, Mr. & Mrs. Jack Fraser, Fraser Hale, Margarite Hope, Fred & Baul Lleyd, Dr. M. Majis, Mary Majka, Leo Martin, Mr. & Mrs. Winston Prince, Mr. & Mrs. F.B. Frondo, Mr. & Mrs. W.J. Quartermain, D. Whitesa (compiler), Loris Whitesa.

SACRVILLE (16th year) - Dec. 18: 7.30 am to 4.30 am; intermittent light main in early am partially clearing with summy intervals by 9 am; overcost by 10 am with light snow flurries between 2 ami 3 pm. temp. 38°; cooling approximately after 3 pm; wind: NW 8-10 mph; ground bare and nostly frozen in open exposed areas; fresh water partially frozen, selt water open. 12 observers in 7-10 parties plus 6 feeder reports. Total party-hours 52% (27% hours on foot, 25% hours by oar). Total party-miles 293 (37 on foot, 25% by car).

Carada Goose, 57; Pallard, 4; BlackDack, 203; Comen Margansor, 8; Sharp-shinned Hask, 2; Reugh-legged Bask, 6; Carada Goose, 57; Pallard, 4; BlackDack, 203; Comen Margansor, 8; Sharp-shinned Hask, 2; Reugh-legged Bask, 6; Carda Gruse, 3; Thesesant, 8; Iceland Gull, 1; Great Hack-backed Gull, 103; Harring Gull, 308; Ring-billed Gull, 3; Rock Dove, 112; Showy Onl, 1; Hairy Woodpacker, 8; Downy Woodpacker, 10; Black-backed 3-took Woodpacker, 4; Horned Lark, 4; Gray Jay, 13; Eluc Jay, 89; Baven, 89; Crow, 81; Black-capped Chicksdee, 237; Horeal Chicksdee, 61; White-breasted Muthatch, 1; Red-breasted Muthatch, 28; Rouin, 1; Colden-crommed Kinglet, 158; Raby-crowned Ringlet, 1; Leggerhand Shrike, 1; Northern Shrike, 2; Starling, 553; Pine Warbler, W.Palla Warbler, 2; House Sparrow, 809; Red-winged Eleckbird, 2; Cosbird, 83; Pine Sistein, 8; Goldfirch, 8; Savennah Sparrow, 1; Jamoo, 12; Tree Sparrow, 18; Chipping Sparrow, 1; Mite-thro abed Sparrow, 2; Song Sparrow, 3; Snow Bunbing, 46; Sparrow, 8p., 1; Total; 46 species, 3,166 birds. (Seen in count puriod; Northern Three-bood Woodpacker, Mockingbird, E. Madowlark, Grockle, Evening Grosbesk, Com. Redpell, White-adnged Crossbill). Bill Parrow, Paul Pogaard, Gordbn Eurus, Inc Ouseron, Hinrich Harrise, Rosald Housell, Barry Hughson, Don McLenzen, Heid McMuns, Bill Prescott, Al Smith (compiler), Stuart Tingley, Mrs. E.A. Weldon, Mrs. John Clark, Mr. & Krs. Bill Black, Dr. & Mrs. W. Codfrey, Mr. Lindsay Smith, Mrs. Roger Calkins.

MINISTE-ALERE (6th year) - Doc. 22; 8.45 am to 5.15 pm. overcast with summy periods and occasional snow-flurries, temp. 29°-34° wind: N. 0-10 mph. Ground almost bare at court, 6° snow cover inland, pends and lakes frozen, other water open. 6 observers in 3-5 parties. Total party-hours, 24 (14 on foot, 10 by car); total party-hiles 171 (12 on foot, 159 by mar).

Bed-throated Loom, 26; Hack Duck, 267; Pintail, 1; Common Eider, 8; Black Scoter, 3; Common Mergenser, 5; Boughlegged Hack, 1; Ruffed Grouse, 6; Rurple Sandpiper, 240; Cleanous Gull, 2; Iceland Cull, 56; Great Black-bucked Call, 12; Herring Gull, 31; Ring-billed Gull, 19; Short-sured Cul, 1; Rairy Woodpooker, 2; Downy Woodpooker, 5; Grey Jey, 15; Blue Jey, 35; Reven, 61; Crow, 6; Black-capped Chickedses, 137; Boreal Chickedses, 15; Red-breasted Ruthatch, 28; Robin, 4; Golden-crowned Kinglet, 15; Northern Shrike, 1; Starling, 59; House Sparrow, 208; Redwinged Blackbird,1; Pargle Finch, 1; Pine Groubesk, 1; Common Redpell, 4; Coldfinch, 233° Junco, 17; Tree Sparrow, 4; White-throated Sparrow, 1; Song Sparrow, 3. Total; 38 species, 1556 birds. (Seen in count period; Capada Goose, Barred Cul). David Christic (compiler), Henrik Tolchwann, Maric Majka, Mary Majka, Dr. M. Majka, Marole Fitters.

FUNDY NATIONAL PARK (10th year) - Dec. 15; 7.30 am to 5.00 pm. snow flurries; temp. 22°25°; wind: NE, 10 mph. Ground bare on the coast, 3-4" crusty snow inland. 13 observers in 7 parties; 3 at fooders. Total party-hours 29 g (17 on foot, 12g by car); total party-hours 193 (21 on foot, 172 by car).

Hed-threated Loon, 3; Black Duck, 26; Ruffod Grouse, 9; Glaucous Gull, 2; Iceland Gull, 1; Great Flack-backed Gull, 4; Herring Gull, 99; Barred Cul, 1; Downy Woodpocker, 2; Blk-backed 3-tood Wigher, 1; Gray Juy, 4; Blue Juy, 33; Bavon, 9; Crow, 15; Black-capped Chickedes, 182; Boreal Chickedes, 95; Red-breasted Muthatch, 70 f

Brown Crosper, 3; Winter Wron, 1; Robin, 1; Goldon-crosmed Kinglet, 40; Northern Shrike, 3; House Sparrow, 1;

- 11 -Red-winged Blacktird, 3: Grackle, 3: Common Redpoll, 2: Goldfirnh, 38: Junco, 14: Snow Bunting, 3. Total: 29 species, 660 birds. (Seen in count period: Hooded Marganser, Starp-shirmed Hack, Great Herned Oal, Hairy Woodpacker, Starling, Coxbird, Evening Grosbeck, Pine Grosbeck, Tree Sparrow). Joan Decument, Tracy Black, Eric Browns, Produ Butland, Howard Copp, Henrick Deichmann (compiler), Josman Deichmann, Mark Deichmann, Homa Grmy, Doris Hatt, Thelma Kierstend, James McLaughlin, Fred McKinley, Albort Murphy, Lauris Murphy, Cary Fittman, Marole Pittman, Marry Spencer. ST. MARTINS (9th year) - Doc. 20; 9.15 an to 4.45 pm. overcast am, sunny pa; temp. 28°, wind: WW, 5 mph. Ground frozen, some ice in rivers, lakes party open. 2 observers in 2 parties. Total party-hours, 72 (3 2 on foot, 32 by car); total party-siles 56 (6 on foot, 50 by car). Bod-threstof Loon, 2; Black Dock, 7; Skarp-shinned Hawk, 1; Rough-legged Bark, 1; Buffed Grouse, 2; Purple Sundpiper, 12; Gray Jay, 3; Blue Jay, 12; Raven, 24; Crow, 5; Black-capped Chickadee, 27; Forest Chickadee, 7; Red-breasted Buthatch, 21; Robin, 6; Northarn Shrike, 1; Purgle Finch, 2; Pine Grosbeak, 2; Slate-coloured Junco, 4; Tree Sparrow, 2; White\_threated Sparrow, 1; Song Sparrow, 1. Total: 21 species, 143 birds. (Seen in count period: Canada Goose, Goldeneye, Herring Gull, Starling, House Sparrow, Red-winged Blackbird, Cowdird). Mr. & Mrs. James Bradshaw (conpilers). SAIMT JUBN (18th year) - Dec. 28; 7.10 am to 5.20 pm; munny; temp. 23°-32° wind; NN, 3-15 mph. 2" snow cover; open patches in Saint John River, other freshnater frozen. 16 observers in 7 parties, 30 at 26 feeders. Total party-hours, 40g (25g on foot, 15 by car); total party-niles 275g (21g on foot, 254 by car). Great Cornorant, 1; Canada Goose, 1; Mallard, 8; Black Duck, 473; Common Goldsneys, 204; Barrow's Goldsneys, 2; Bafflehend, 34; Oldsquaw, 1; Common Elder, 3; White-winged Scoter, 8; Surf Scoter, 6; Black Scoter, 7; Common

Morgannor, 12; Rad-breasted Merganser, 48; Starp-shinned Hask, 2; Rough-lagged Hawk, 5; Bald Engle, 2; small falcon sp., 1; Buffed Grouse, 10; Pheasant (probably escaped), 1; Burple Sandpiper, 50; Glaucous Gull, 6; Iceland Oull, 47; Great Black-backed Oull, 380; Herring Oull, 2960; Hing-billed Gull, 7; Black-backed Gull, 1; Rock Dove. 358; Mauraing Dove, 7: Snowy Owl, 2; Hairy Woodpecker, 19; Downy Woodpecker, 26; Elk-backed 3-tood Wight, 1; Gray Jay, 2; Blue Jay, 88; Comon Raven, 119; Comon Crow, 167; Black-capped Chickadee, 229; Boreal Chickadee, 7; White-breasted Muthatch, 6; Red-breasted Muthatch, 16; Brown Creeper, 3; Wren, Carolina, 1 ##; Robin, 10; Goldencrossed Kinglet, 8; Northern Shrike, 1; Starling, 2135; House Sparrow, 797; Bedwinged Blackbird, 7; Common Grackle. 24: Broom-beaded Covbird, 48; Cardinal, 1; Evening Grosbaak, 74; Pins Grosbaak, 16; Pins Siskin, 1; Amarican Goldfinch, 11; Slate-coloured Junes, 17; Tree Sparrow, 40; White-threated Sparrow, 13; Fox Sparrow, 2; Sweep Sparrow, 1; Song Sparrow, 15; Snow Bunting, 35. Total: 62 (plus 1) species, 8596 (plus 1) birds. (Seen in count period: Snow Goose, Pintsil, Canvasback, Buby-crowned Kinglet). Mrs. G.G. Anglin, Byard Armstrong, Clarence Besittesy, Fred Brook, Mrs. Smith Cathline, David Christie (compiler), Flavence Christie, Faul Chris, Shireley Colquette, Mrs. E.J. Crem, Marjorie Duffy, Joyce Golden, Rennie Gorhan, Stan Gorham, Mrs. A.R. Goucher, Mr. & Mrs. Jim Hamilton, Crace Hayes, Mrs. B.W.G. Holt, Mrs. G.L. Hunter, Ron Hughes, Cocil Johnston, Mrs. S.R. Junes, Dot Insten, Isabel Leflano, Vivian MacDorald, Steart MacFarlane, Mary Majka, Mike Majka, Don MoAlpine, Maisie Melvin, Mrs. P. Mullin, Bill . C'Brien, Tom Page, Don Patterson, Margaret Butterson, Vi Bansay, Gordon Redstone, Graene Rederick, Mrs.H.G. Rogers, Mary Ross, Joan Sallers, Marion Sherwood, Evan Smith, Rog Smith, Jin Wilson, LETWIN (15th year) - Dec. 21; 7.50 am to 5.20 pm. clear; temp. 20°-29° wind; W, 0-5 mph. 1" encor cover; rivers

open, Iskes mostly frozen. 6 observers in 2-3 parties. Total party-hours, 19 (12 on foot, 7 by car); total party-miles 126 (7 on foot, 119 by car).

Common Loon, 11; Horned Grebe, 87 Great Cornorant, 2; Black Duck, 32; Greater Scaup, 5; Common Goldensye, 99;

Bufflehsed, 51; Oldsquaw, 117; Common Eider, 360; Surf Scoter, 8; Common Mergenser, 7; Bed-breasted Merganser, 14;

hade sp., 1; Purple Sandpiper, 436; Glaucous Cull, 1; Iceland Cull, 1; Great Black-backed Cull, 63; Harring Cull, 632; Hazorbill, 1; Hlack Cuillenot, 1; Short-eared Cwl, 1; Hairy Woodpacker, 1; Downy Woodpacker, 5; Gray Jay, 7; Elue Jay, 1; Baven, 62; Crow, 92, Black-capped Chickedee, 43; Boreal Chickedee, 12; Red-breasted Muthatch, 33; Bohin, 2; Golden-crowned Kinglet, 5; Morthern Shrike, 4; Starling, 110; House Sparrow, 30; Hed-winged Flackbird, 2; Cowbird, 14; Pine Sisken, 5; Coldfinch, 1; White-winged Crossbill, 3; Junco, 2; Tree Sparrow, 9; White-thrested Sparrow, 2; Song Sparrow, 2; Song Dunting, 50. Total; 46 species, 2428 birds. (Seem in count period; Red-tailed Hade, Rough-Lagged Hade, Bald Engle, Spruce Grouse). Art Callaghan, Bayid Christie (compiler), Feul Clark, Don McAlpine, Gordon Hedstone, Jin Wilson.

PERMITERD - LETETE (7th year) - Doc. 26; 8 am to 4 pm; summy, some claud, temp. 4° wind; RW, light, mainly bare ground; abb tide to like water. 2 observers in 1 party. Total party-hours, 8 (by car), totalparty-miles (30 by car).

Com. Loon, 1: Bed-scoled Grabe, 2: Horned Grabe, 5: Great Cornorant, 26; Black Duck, 5: Puffle-hoad, 23: 'Idaquaw, 26; Com. Eider, 14: White-winged Scoter, 11: Rad-br. Marganser, 2: duck sp., 1: Grast Flack-backed Gall, 27; Herring Gall, 948; small gall sp., 2; Black Gaillenot, 1: Rock Dave, 57; Flue Jay, 1: Crow. 99: Black-capped Chickedge, 5; Red-br. Muthatch, 1: Robin, 1: Starling, 32: Tree Sparrow, 4: White-throated Sparrow, 1. Total: 23 species, 1295 birds. (Seen in count period: Downy Woodpacker, Grackle, Evoning Grasbeak.) M.C. Morehouse, Nrs. M.C. Morehouse (compiler).

ST. ANDENS (14th year) - Dec. 15; 8 am to 5:20 pm. Summy & clear; tomp. 17°; wind light, 5 mpb. No encw. ponds frozen, lakes partly open. 5 cheoryers in 3 parties; 11 at 10 feeders. Tot. party-hours, 24 (7 cm foot, 17 by car); tot. party-niles, 124 (15 cm foot, 109 by car).

Cot. Loce, 7; Red-macked Grabe, 8; Horned Grabe, 17; Graat Cornerant, 2; Elack Dack, 127; Graater Scaup, 43; Common Goldonaye, 22; Bufflehead, 85; Oldaquaw, 7; Barlequin Duck, 1; Com. Elder, 350; King Elder, 4; White-winged Scater, 83; Surf Scater, 142; Black Scater, 6; Red-br. Morgansor, 5; Bald Engle, 2; Eastrol, 1; Ruffed Grouse, 3; Rurple Sandpiper, 32; Graat Black-bucked Gull, 39; Herring Gull, 136; Ring-billed Gull, 2; Rock Dave, 26; Mourning Dave, 6; Filested Wedpecker, 1; Bairy Moodpocker, 10; Boung Woodpocker, 4; Gray Jay, 1; Blue Jay, 57; Raven, 9; Craw, 79; Black-capped Chickedee, 98; Burool Chickedee, 6; White-br. Buthatch, 1; Brown Creeper, 2; Carolina Wrom, 147; Robin, 2; N. Shrike, 1; Starling, 43; Tellos-rumped Warbler, 1; Bruse Sparrew, 87; Rusty Blackbird, 1; Grackle, 2; Cowbird, 10; Evening Grosbock, 11; Coldfiroh, 1; White-winged Crossbill, 5; Junce, 5; Chipping Sparrew, 1; Tree Sparrew, 28; White-threated Sparrow, 7; Song Sparrew, 4. Total; 53 species, 1634 birds. (Soon in count period: Sharp-shinned Hawk, Caprey, Ruby-cacamed Kinglet, Red-winged Blackbird,) Kra Hallie Bartlett, Jacqueline Davis, Barold Hunter, Mrs Darald Johnson, Willa MacCountry (co-compiler), Norman Mais, Dr & Mrs Denald Molesse, Rose Metsinick, Ten Monfistt, Mrs Fred Mutter, Mrs Sydney Wyman,

EASTFORM\_CAMPCHELLO (8th year) - Dec. 23: 7 am to 4 pm SST. Clear a.m., claudy p.m.; temp. 180-320; wind SS, 10 mph. Prostanter frozon, salt open. 14 observers in 3 parties; 3 at feeders. Total party-hours, 26 (' on feet, by ear); tot. party-miles, 168 (5 on feet, 163 by ear).

Com. Loon, 11; Red-thr. Loon, 2; Red-nocked Grabe, 6; Horned Grabe, 58; Great Communat, 76; Mallard, 1; Black Dack, 442; Greater Schup, 2; Com. Goldenoye, 222; Dufflehead, 388; Oldenowe, 221; Com. Eider, 68; Maite-winged Scoter, 37; Surf Scoter, 32; Black Scoter, 7; Com. Merganser, 8; Red-br. Merganser, 41; Rough-leged Black, 1; Purple Sandpiper, 40; Great Black-backed Gull, 252; Herring Gull, 2510; Ming-billed Gull, 5; Black-leged Kittisks, 3 (very low); Thick-billed Murre, 11; Dovekie, 1; Mack Guillonet, 3; Rock Bove, 59; Bonny Woodpecker, 9; Blue Jay, 32; Raven, 21; Crow, 112; Black-capped Chickedee, 60; Boreal Chickedee, 4; Bad-br. Mathatch, 20; N. Shrike, 4; Starling, 939; House Sparrew, 115; Grackle, 12; Evening Grosbeak, 2; Junce, 6; Tree Sparrew, 15; White-threated Sparrew, 1; Fox Sparrow, 5, (at one feeder!); Song Sparrow, 9. Total: 45 species, 5997 birds. Ari Bates, Mathryn Calder, Charles Dorchester, 1827 Dorchester, 1800 Dudley, John Dudley, Betty Lank, Daryl Linton, Shoile Mallcok, Larry Moore, Barbara Ross, J. Edward Sweyer, Bill Toensond (compiler), Jenet Weston,

## THE ILBRITINE BALD EAGLE, OSPREY AND PERBGRINE FALCON SURVEY

The Haritime Bald Eagle, Osprey and Poregrine. Estcon Survey will continue in the fall and winter of 1974-75. The past year has been particularly productive in assessing the status of these birds in the Maritimes, but there is still much to be done. Nach of the success can be attributed to the excellent cooperation received from the brigade of volunteers who provided needed information on the distribution and nesting of these birds. Our aerial reconnaissance (confined to N.B. and P.E.I.) was very rewarding.

Would you please send in all your observations on engle and osprey occurrence and nesting that, to date, have not been forwarded to me. Your continued observations on fall and winter concentrations and movements are solicited. We sincerely appreciate your assistance in this survey. — R.F. Stocek, Maritime Forest Ranger School, R.R. No. 5, Fredericton, N.B.

### PURPLE SANDPIPER OBSERVATIONS WANTED

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Guy Morrison and Ken Ross (Canadian Wildlife Service, 2721 Highway 31, Ottawa Kl.: CH3) are currently working on a report to summerize the data NBFN members and others gathered for the Maritimes Shorebirds Survey last summer and fall. They are also very interested in obtaining reports of overwintering Purple Sandpipers. Reports may be sent directly to them or to the N.B. Museum, 277 Douglas Ave., Saint John.

### WINTER OBSERVATIONS

For inclusion in the "Mature News" section of the April issue of N.B. Naturalist, nature observations from the winter (Dec. 1 to March 15) should be sent to the Natural Science Dept., N. B. Huseum, by March 31.

### THE CANADIAN BEAVER

Intimately associated with the history of Canada, the beaver will soon, at long last, gain official recognition as an emblem of Canada.

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#### LAST TEAR'S ERROR COMES TO LIGHTY.

We know now that readers don't check the Christmas Bird Counts very carefully, for no one ever nontioned that a year ago, in B.P. Maturelist Vol. 5, No. 1, we listed only half of the Mactaquae count. Right after Black-capped Chickedes it just terminated and the Fredericton count began the next page. To make amends, we now publish the entire Mactaquae report:

1873
18700402C (2nd year) - Dec. 28; 8 as to 4:30 pm. Overcast, drizzle changing to bail and snow (3" accumulation); temp. 15°-22°; wind NW, 5-10 mph. Prosen ground, ico-covered and later on by 2" snow; large patches of open water above dam and completely open below. 7 observers in 4 parties. Tot. party-hours, 18 (4 on foot, 14 by car); tot. party-niles, 181 (8 on foot, 173 by car). Con. Goldensye, 31; Con. Merganser, 48; Red-br. Merganser, 1; Great Hack-nicked Gall, 7; Herring Gall, 14; Rock Dove, 26; Hairy Woodpecker, 1; Gray Juy, 1; Nue Juy, 7; Ravem, 30; Crow, Z3; Hack-capped Chickedee, 56; Borsel Chickedee, 1; Red-br. Nathatch, 2; House Sparrow, 67; Evening Grosbeak, 1; Purple Finch, 8; Con. Redpoll, 58; Goldfinch, 1; Junco, 10; Tree Sparrow, 12; White-throated Sparrow, 5; Song Sparrow, 2. Total: 23 apocies, 412 birds, (Seen in count period; Hack Duck, Robin, warbler sp.) Stephen Clayden, Anne Dean, Clifford Jones, Darrell Kitchen, Ed Felger (compiler), Beverley Schneider, Marc Schneider.

### SURVEY OF SPRING FLOWERS

To encourage a more active interest in plants, we are inaugurating a survey of bloomdates of several common wildflowers. The species have been selected as ones that should be familiar to many people and common in a large portion or all of the province. The beginning of their blooming periods extends from early through late spring (probably early .pril to late Hay in southern N.B., late April to mid June in the north).

Nost guides to wildflowers will help with identification of the herbaceous plants but we can especially recommend . Field <u>Guide to the Wildflowers</u> by Paterson and McKinney. Almost any book on trees will be sufficient for the woody species.

On the form attached, we would like you to report observations from a single locality only (within a 5-mile diameter circle). If you will be making observations more widely than that, please report on an additional piece of paper or write for more forms. In very hilly areas, please use separate forms if the altitude range of your observations is more than about 500 feet, for example "line (constal)" and "Alma (above 500 ft.)". additional forms can also be obtained for friends or students.

Recording your observations: There are two dates we are looking for — the date of the earliest blossom and the date when ten or more plants begin to flower. (They may or may not be in "full bloom" at that time.) It is envisioned that you will be able to report the exact dates for species you see every day or two. Others may be in a habitat or locality you can visit only at weekly intervals, such as at your camp or cottage. There, one may arrive on a Saturday, say May 17, to discover white violets in full bloom where there had been none the preceding Sunday. In that case, you should record the blooming dates as "between May 10-17" or "before May 17."

A third item requested relates to the slope of the ground where you find the flowers, since south-facing slopes will be more advanced than will level ground, etc. An interesting exercise would be to make separate reports for two or more different slopes at the same location. For instance, how much explier do daisies bloom in the south-facing field near yourhome than in the north-facing field just down the road?

Best wishes for some interesting hours afield. If you need more information or forms, write the Natural Science Dept., N. B. Huseum, 277 Douglas Evenue, Saint John.

### WILD MOUNT/INS - FR/BILE SE'S

Mountains and seas — theme of the Canadian Nature Federation Conference to be held in Victoria, B.C. June 14 & 15; various field excursions organized for June 12, 13, 16 and 17. Write the C.N.F., 46 Elgin Street, Ottawa KIP 5K6, for further details. It should be a fascinating get-together.

### WILDLIFE IN URBAN CANADA

A symposium on wildlife in urban Canada will offer workshops, panel discussions and special papers presented on the problems of wildlife in our growing urbanized areas. To be held at University of Guelph May 26-30. Write Office of Continuing Education, University of Guelph, Guelph, Ontario.

### WILDFLOWER BLOOMING DATES - SPRING 1975

Locality

Obsrvations reported should fall within a 5-mile diameter circle.

Observer(s):

Mdressı

	Date	STRUCK WARRANTS IN A PROBLEM		
Species	Earliest Flower	in bloom	Slope	Notes
Trees & Shrubs				
Speckled Alder				Record when catkins
Alnus rugosa				release yellow pollen
Trembling Aspen/Popler				
Populus tremuloides				Straight, hanging catkins
White Elm				
Ulmus americana				
Bilberry/Shadbush	1			The one with copper-
Amelanchier laevis				coloured leaves
Pin/Red Cherry				224242421212222
Prunus pensylvanica				
Apple				
Pyrus melus		y		
Choke Cherry				
Prunus virginiana				A CONTRACTOR OF THE PARTY OF TH
Rhodore				
Rhododendron canadense				
Woodland Herbs				
Dogtooth Violet		i i		Also called Trout Lily
Erythronium americanum				1 CONTROL OF THE PROPERTY OF T
Red/Purple Trillium				
Trillium erectum		į		
White Violets		<u> </u>		<b>\</b>
Viola incognita/V.pallens				If able, please indicate
Blue/Purole Violet				/which species you are
V.cucullata/V.septentrionalis				reporting:
Goldhread				
Coptis groenlandice				
Printed Trillium	1			
Trillium undulatum		<del></del>		
Canada Mayflower/				Baianthenum canadense
Wild Lily-of-the-valley				Report when petals of
Bunchberry	1			small central flowers open
Cornus canadensis	ļ			Sesti courses stowers oben
Starflower				
Trientalis borealis				
Open Country Herbs				The state of the s
Coltsfort				Dandelion-like flower, but
Tussilago farfara				without green leaves
Dandelion				
Terracum officinale				
Straberry				
Frageria virginiana				1
Yellow Rocket				* For slope, indicates
Barberes vulgeris				L = more or less level groun
Tall Buttercup				S = marked south-facing slop
Ranunculus acris				W = west
Oxeye Drisy	1	Tallendaria established	7-11-11	N = north
was in the tall				E = east, etc.