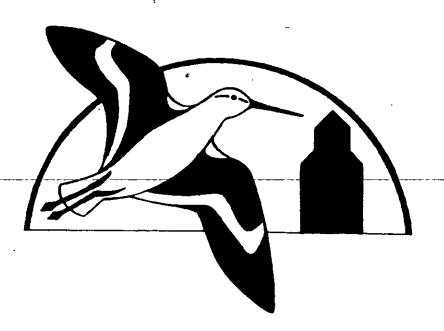
# BEAVERHILL BIRD OBSERVATORY 1987



# ANNUAL REPORT

BBO Report No. 5

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#### Section 1 Introduction

#### 1.1 Location

The Beaverhill Bird Observatory (BBO) is located on the southeast corner of Beaverhill Lake (53 22 N, 112 30 W; NW 1 and SW 12 Twp 51 - Rge 18 W4) approximately 70 km south-east of Edmonton, Alberta.

#### 1.2 Objectives

Objectives of the BBO were defined in 1984 as the following:

- (a) to conduct studies of migrant and resident birds and other aspects of natural history, at Beaverhill Lake, in the Province of Alberta and elsewhere, and to publish the results of such studies;
- (b) to make the facilities of the Observatory available to amateur and professional biologists and students who are carrying out appropriate observations and research work;
- (c) to engage in educational activities related to the work of the Observatory;
- (d) to promote the preservation and conservation of Canada's natural heritage with special emphasis on the Beaverhill area of Alberta; and
- (e) to cooperate with organizations with similar objectives.

# 1.3 Operations and Achievements

The year 1987 was a year to be proud of for the Beaverhill Bird Obervatory. At the instigation of the chairman, Rainer Ebel, many significant events came to pass (see section 1.4).

The observatory was operated for 190 days from March 29 to October 12, a significant increase from 25 days in 1985 and 107 days in 1986. A total of 511 visitors signed the guest book or were greeted by BBO personnel. Individuals hailed from as far away as Netherlands, Sweden, West Germany, Ireland, Texas, San Francisco and Nova Scotia. Bird banding and other project activities were demonstrated and explained to interested guests and scheduled tours groups.

The lab that was constructed last year was "finished" inside and out. A bunkhouse was also erected nearby.

Two students, Sheila Fazikas and Valerie Kerr, were employed by the Edmonton Natural History Society on funds received from the provincial government STEP program. They assisted the BBO by conducting tours, greeting visitors, carrying out field work and maintaining Observatory premises. Many thanks to the ENCH for administering these positions and contributing to living expenses.

April 25 - Garage sale hosted by Jim and Sharon Faragini raised \$475.

April 26 - Edmonton Bird Club (EBC) field trip to Beaverhill Lake led by Jim Lange.

May 30 - Beaverhill Lake Breakfast and Banding demonstration.

June 4 - Beaverhill Lake internationally recognized as Alberta's second RAMSAR site.

June 11 - Wren tour, led by Michael Quinn.

June 28 - BBO Bird Banding Breakfast

July 25 - "Dog and Grog" Night at BBO. August 7 - BBO officially opened by the Honorable Don Sparrow. A BBO sign and plaque commemorating the event were erected at the site. BBO was declared the non governmental Volunteer Steward for Beaverhill Natural Area.

August 8 - First Annual Western Canada Bird Banding Workshop and Conference. 90 people registered.

August 22 - BBO Bird Banding Breakfast.

Sept. 27 - EBC field trip to Beaverhill Lake and BBO.

1.5 Projects and their coordinators

#### 1.5.1 Core Projects

- a) General bird banding Rainer Ebel
- b) Bird monitoring Rainer Ebel
- c) Nest Records Geoff Holroyd

#### 1.5.2 Special Projects

- a) Grassland sparrow surveys Roger Jones
- b) Habitat selection and polygamy in House Wrens Michael Quinn
- c) Male parental care and monogamy in Tree Swallows Peter Dunn
- d) Duck and raptor nest boxes Karl Grantmyre

# 1.5.3 New Projects

a) Prairie shorebird surveys program - Shirley Talavia (see section 3.1)

b) Alberta Breeding Bird Atlas - Michael Quinn and Stefan Jungkind (see section 3.2)

# Section 2 Bird Banding

#### 2.1 Introduction

Refer to BBO 1986 Annual Report for a detailed description of methods and approaches to bird banding at the BBO.

There was a slight reduction in general banding efforts this year due to diversion of time toward opening ceremony and banding conference preparations. Mist-net capture rate was also lower than in 1986. Banding operations by Edgar Jones (EJ) along the east side of the lake were adversely affected by the July 30, 31 tornado related storms which damaged his mist nets. Thus, there were fewer birds banded by BBO and EJ in 1987 (1578 individuals of 59 species) than in 1986 (2065 individuals of 69 species). However, the number of "returns" at BBO increased.

# 2.2 Banding Schedule and results

# 2.2.1 General banding - mist nets

Mist-netting occurred on 38 days between April 6 and September 14 for a total of 1417 net hours (1805 in 1986). Efforts were greatest in May and August (Figure 1) while success rates varied weekly (Figure 2).

General banding took place either in the immediate vicinity of the lab or along the south shore of the lake nearby. Greater emphasis on shorebird netting attempts may have contributed to the overall decrease in birds per net-hour (37 birds/ 100 net-hours vs. 40 birds/ 100 net hours in 1986). Mist-netting along the shore is often less productive because of higher visibility and constant wind. In future years we will keep separate records of capture rates along the shore as opposed to in grass/willow/poplar habitat around the lab.

Mist-nets at BBO accounted for the banding of 452 individuals of 41 species (compared to 730 individuals of 50 species in 1986). In order of greatest to lowest numbers, the most frequently captured species were Least Flycatcher, Yellow Warbler, Clay-colored Sparrow, Traill's Flycatcher and Tennessee Warbler.

#### 2.2.2 General banding - house trap

Between May 9 to June 18, the house trap was in operation 14 days and accounted for the banding of 45 individuals of 3 species (Red-winged Blackbird, European Starling and Brownheaded Cowbird). Effort and success equalled that in 1986 except for one less species trapped in 1987, Yellow-headed Blackbird.

#### 2.2.3 Nest-site banding

Banding of young, as well as some tree swallow and house wren adults, at nest boxes and other nests found accounted for the banding of 864 individuals of 6 species:

Sharp-shinned Hawk 3 Tree Swallow 535 Cooper's Hawk 4 Barn Swallow 5 Northern Saw whet Owl 4 House Wren 313

Unfortunately, no attempt was made to band cliff swallows at Amisk Creek this year. This was the first break after six consecutive years of banding there.

#### 2.3 Birds banded

Table 1 lists all species and numbers of birds banded at Beaverhill Lake in 1987 by both BBO personnel and EJ. Species banded for the first time at Beaverhill Lake by BBO have been underlined. Highlights for BBO included: Black-billed Cuckoo female with well developed brood patch, June 28; two Solitary Vireos in a net less than three feet from each other, Aug. 23; seven species of shorebirds including one Piping Plover, May 17; Baltimore x Bullocks Oriole integrade, May 30; and a family of 5 Loggerhead Shrikes and several American Kestrals banded by Doug Collister as a demonstration of the Bal-chatri trap during the banding workshop, Aug. 8, 9.

A noteworthy capture by EJ was a Western Sandpiper. This species is rarely identified in Alberta.

# 2.4 Retraps

Any bird captured that already has a band on its leg falls into one of three categories (North American Bird Banding Reference Manual):

- a) a "repeat" if the bird was banded in the same 10' grid block less than 90 days previously.
- b) a "return" if the bird was banded in the same 10' grid block more than 90 days previously
- c) a "foreign retrap" if the bird was banded in a different 10' grid block

The 1986 Annual Report followed Elliot McLure's Bird Banding where the term "recovery" is used for c) above. At present, this term is applied only to banded birds found dead whether banded locally or otherwise.

Table 1. Birds banded in 1987 at Beaverhil Lake by the Beaverhill Bird Observatory and Edgar Jones

SPECIES	ВВО	E.J.	TOTAL	SPECIES	вво	E.J.	TOTAL
Piping Plover	1		1	Solitary Vireo	2		2
Semipalm. Plover		3	3	Red-eyed Vireo	1	2	3
Killdeer	2	1	3	Warbling Vireo	19		19
Lesser Yellowlegs		2	2	Philadelphia Vireo	1		1
Spotted Sandpiper	1	1	2	Tennessee Warbler	21	16	37
Semipalm. Sandpiper	2	3	5	Orange-crowned Warbler	1		1
Western Sandpiper		1	1	Yellow Warbler	68	35	103
Least Sandpiper	19	1	20	Magnolia Warbler	S		2
Pectoral Sandpiper	2	2	4	Myrtle Warbler	3	9	12
Stilt Sandpiper	1		1	Mourning Warbler	1		1
Long-billed Dowitcher		1	1	Common Yellowthroat	1	1	2
Sharp-shinned Hawk	3		3	Wilson's Werbler	4		4
Cooper's Hawk	4		4	American Redstart	5		5
Northern Sawwhet Owl	4		4	Rose-breasted Grosbeak		1	1
Black-billed Cuckoo	1		1	American Tree Sparrow	8	4	12
Downy Woodpecker	1	1	2	Chipping Sparrow	2	1	3
TrailhFlycatcher	23	<del></del>	24	Clay-colored Sparrow	34	35	69
Least Plycatcher	110	58	168	Savannah Sparrow	8	11	19
Eastern Kingbird		5	2	LeConte's Sparrow		1	1
Tree Swellow	540		540	Song Sparrow		2	2
Bank Swallow	1		1	Lincoln's Sparrow	1		1
Barn Swallow	5		5	Swemp Sparrow		1	1
Blue Jay	1		1	White-throated Sparrow		1	. 1
Black-capped Chickadee	17	7	24	Dark-eyed Junco	2	1	3
Red-breasted Euthatch	1		1	Red-winged Blackbird	59	1	60
House Wren	319	4	323	Brown-headed Cowbird	11		11
Marsh Wren		1	1	Northern Oriole	17	5	19
Swainson's Thrush		1	1	Purple Finch	7		7
American Robin		3	3	American Goldfinch	12	2	14
European Starling	11		11	Total Individuals	1359	219	1578
				Total Species	46	36	59

Table 2. Birds retrapped as "returns" in 1987 at Beaverhill Bird Observatory

SPECIES/NO.	AGE/SBI	BANDED	RETURNED
Least Flycatcher			
1630-0 <del>5</del> 856	AHY/M	05/27/84	05/30/87
1750-41635	AHY/F	07/18/86	05/25/87
Yellow Warbler			
1700-53150	AHY/M	05/20/85	06/03/87
1700-53156	AHY/M	05/20/85	05/24/87
1700-53171	AHY/W	05/26/85	05/20/87
1700-53964	AHY/M	05/17/86	05/26/87
1750-41826	HY/U	08/23/86	07/20/87
Clay-colored Sparrow	-		
1750-53703	Ū/¥	07/24/86	06/09 87
Savannah Sparrow			
820~28840	AHY/M	08/22/82	08/20/87
Red-winged Blackbird		-	
762-34131	YHX\ <b>M</b>	05/18/86	05/10/87
762-34111	SY/M	05/20/86	05/25/87
762-34138	ASY/14	06/11/86	05/09/87
762-34139	ASY/M	06/11/86	<b>05/09/87</b>
921-19957	asy/f	06/11/86	07/18/87
762-34122	AHY/P	05/17/86	05/10/87
Brown-headed Cowbird			
921-19955	AHY/W	06/01/86	05/10/87
921-19956	AHY/M	06/01/86	05/30/87
921 <b>–19</b> 962	AHY/M	06/18/86	05/22/87
921-19967	—ABY/¥ ——	<del></del>	05/-30/87
American Goldfinch			
1750-41620	<b>U/</b> U	07/01/86	06/14/87

Table 3. Birds retrapped as "repeats" in 1987 at Beaverhill Bird Observatory

SPECIES	NO. OF INDIVIDUALS	AVERAGE NO. RETRAPS/ INDIVIDUAL
Alder Plycatcher	1	2.0
TrailBFlycatcher	ı	1.0
Least Plycatcher	15	1.1
Tree Swallow	1	1.0
Black-capped Chickadee	5	1.25
Warbling Vireo	1	1.0
Yellow Warbler	4	1.5
Tree Sparrow	2	1.0
Clay-colered Sparrow	3	1.0
Red-winged Blackbird	5	1.0
Baltimore Oriole	5	1.0
American Goldfinch	2	1.0
House Wren	22	1.0
Total	47	1.14

Table 4. Returns that repeated in 1987 at Beaverhill Bird Observatory

SPECIES/NO.	BANDED	1987 REPEATS
Black-capped Chic	kadee	·
1700-53921	1984	April 4, June 28, July 18
Red-winged Blackb	ird	
921-19957	1986	July 18, July 20
Brown-headed Cowb	ird	
921-19962	1986	May 22, May 29
921-19956	1986	May 30, May 31

Figure 1. Monthly mist-netting effort at Beaverhill Bird Observatory, 1987

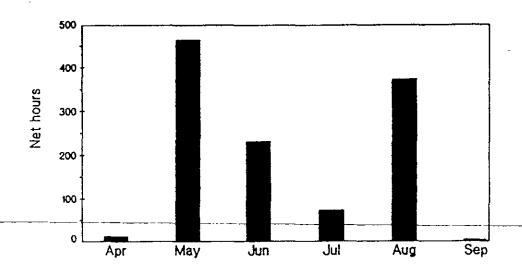
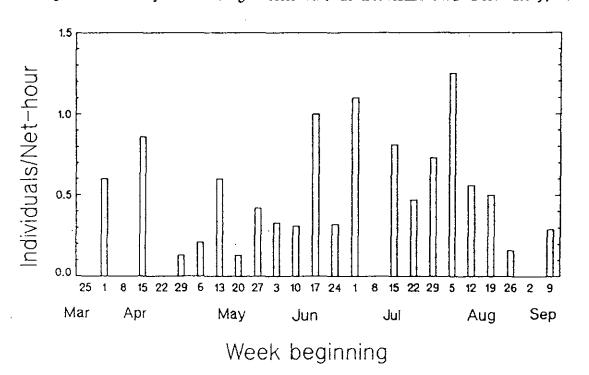


Figure 2. Weekly mist-netting success rate at Beaverhill Bird Observatory, 1987



Tables 2 and 3 give a detailed list of "returns" and a general list of "repeats" respectively for 1987. Table 4 lists those "returns" that repeated.

There was only one "foreign retrap" - a Least Flycatcher (1730 71327) which was banded by EJ July 23, 1986 along the east side of the lake (an adjacent 10' grid block to that of the BBO) and captured at the BBO on June 28, 1987.

# Section 3 Bird monitoring

Refer to the 1986 Annual Report for a description of monitoring methods used by BBO.

# 3.1 Sight Records

Census results are listed in Table 5 in order of first, last and maximum number sighting for each species. Highlights of unusual species or exceptional numbers are underlined. Additional species that were recorded elsewhere around the lake (or for which we have no quantitative data or dates) include:

Common Loon	Purple Martin	Rose-breasted Grosbeak
Goldeneye	Boreal Chickadee	Fox Sparrow
Whimbrel	Black and White Warbler	Chcollared Longspur
Western Sandpiper	Red Headed Woodpecker	Rusty Blackbird
Whrumped Sandpiper	Hairy Woodpecker	Brewer's Blackbird
Sharp-tailed Sandpiper	Olive-sided Flycatcher	Common Grackle
Belted Kingfisher	Say's Phoebe	Common Redpoll

Rainer Ebel and Jim Faragini reported roosts of 20,000+ blackbirds of various species at Lister Lake marshes in mid October.

BBO recorded a total of 170 species for the immediate Observatory vicinity compared to 168 for 1986. A total of 197 species were noted for the entire Beaverhill Lake area.

Table 6 lists results of shorebird surveys conducted as part of the Prairie Shorebird Surveys Program.

#### 3.2 Nest records and Breeding Bird Atlas

Data for all nests, excluding tree swallow and house wren, for which detailed records were kept are listed in Table 7. A total of 123 nest record cards for 11 species including 87 for house wrens and 14 for tree swallows were submitted to the Prairie Nest Records Scheme in Manitoba.

In collecting data for the Alberta Breeding Bird Atlas, Michael Quinn and assistants Valerie Kerr and Sheila Fazikas also reported nests for the following species (nests were classified using Breeding Bird Atlas codes: ON occupied nest; NE nest with eggs; and NY nest with young):

Pied-billed Grebe NE
American Bittern NE
Gadwall NE
Redhead NE
Lesser Scaup NE
Cooper's Hawk NY
Swainson's Hawk NY
Red-tailed Hawk NY
Merlin ON
Ruffed Grouse NE
Sora NY
Common Snipe NE
Rock Dove ON

Alder Flycatcher NY
Eastern Phoebe NY
Cliff Swallow NY
Black-billed Magpie NE
Mountain Bluebird NY
Veery NY
Cedar Waxwing NE
Red-eyed Vireo ON
Mourning Warbler NE
White-throated Sparrow NE
Northern Oriole ON
American Goldfinch NY
House Sparrow NY

Eighty species have been confirmed as breeding in at least one of the two 10km squares covering the south end of Beaverhill Lake in 1987.

# Section 4 Project Reports

4.1 Grassland Sparrow Survey - Roger Jones

A survey of grassland sparrows was undertaken on the southeast shore of Beaverhill Lake, beginning May 17, 1987 and ending July 18, 1987. A total of 9 surveys were undertaken to determine the species composition and distribution of species over a grid area measuring 180 x 630 metres divided into 30 meter squares. Results are as follows:

Total: 3 species surveyed, 29 territorial males (255/100 ha, 103/100 acres)
Savannah Sparrow 15 (132, 53)
Le Conte's Sparrow 8 (71, 29)
Sharp-tailed Sparrow 6 (53, 21)

Visitors: Mallard, Pintail, Marsh Hawk, Killdeer, Willet, Marbled Godwit, Wilson's Phalarope, American Crow, Red-winged Blackbird, Brown-headed Cowbird, Clay-colored Sparrow, Song Sparrow

Remarks: 4 nests were found: Northern Shoveler(1), 8 eggs; Pintail(2),4 eggs and 2 eggs; and Wilson's Phalarope(1), 4 eggs

Savannah sparrows were spread throughout the plot, but were concentrated down the center of the grid where there was a scattering of willows which provided visible perches for the males (frequency of singing was higher in this area). Le Conte's sparrows were scattered throughout the plot. Sharp-tailed Sparrows were concentrated in the northeast and southeast corners of the plot where the grass was thicker and taller.

It is hoped that in 1988 we will be able to continue the study with the use of color bands and color marking techniques.

Table 5. Sight records from the Beaverhill Bird Observatory vicinity in 1987 Prairie Falcon Jun 14 Jul 24 a Jul 18 Ruffed Grouse Apr 17 1 Sharp-tailed Grouse Species Date and No. (n) birds sighted Jul 07 Yellow Rail Jun 16 Jun 21 2 Jun 21 2 First Last May 03 1 Aug 22 2 **Hay 24** Maximum No. Sòza Sighting Sighting American Coot Apr 17 30 Sep 13 100 Aug 22 350 n Sighting Sandhill Crane May 03 Sep 13 15 Sep 13 15 9 Pied-billed Grebe Hay 17 2 2.0 Sep 13 1 20 10 Hay 24 May 17 Black-bellied Ployer Hay 24 Aug 15 Horned Grebe Sep 13 Aur 19 2 Ll Golden Plover Hay 11 5 Hay 24 Red-necked Grebe Apr 17 Jul 25 Jul 25 20 Semipalmated Plover Aug 15 Eared Grebe **λρτ 17** Jul 24 2 Apr 17 Plping Plover May 17 Hay 09 Western Grebe Aug 22 Aug 22 Jun 29 1 C Hay 09 1 Killdeer Apr 04 Hay 03 Jul 07 Jun 09 13 American Avocet Am. White Pelican **Hay 30** 11 Aug 13 6 Jun 30 225 Greater Yellowlegs Apr 19 Sep 13 Jul 06 30 Double-cr. Corporant Hay 03 40 40 Sep 12 Aug 16 3 Jun 24 Lesser Yellowlegs May 03 Sep 12 American Bittern Hay 03 Hay 18 10 Hay 01 5 Sep 12 May 18 5 Willet Aug 22 Great Egret Jun 07 Jul 05 3 Jun 11 Hay 24 Aug 11 1 1 Jun 07 Spotted Sandpiper Great Blue Heron Apr 04 Sep 12 Apr 19 Rudsonian Godwit Jul 23 Jul 25 Jul 23 6 -5 Black-cr. Wight Heron Hay-03 . 1 Sep 12 Jul 06 Jul 08 12 20 Harbled Godwit Apr 20 Aug 22 Ruddy Turnstone Hay 24 Tundra Swan Apr 04 12 Hay 30 1 Apr 17 150 Red Knot Hay 30 Jun 36 Hay 30 2 White-fronted Goose Apr 05 200 Sep 13 20 Hay 03 10560 Sanderling Hay 24 Aug 22 Hay 24 12 Snow Goose Apr 17 200 May 03 250 Hay 03 Semipalmated Sandpiper Hay 10 May 30 May 11 15 Canada Goose Apr 04 1500 8ep 13 Aug 22 May 17 60 Apr 05 2000 Least Sandpiper Hay 10 Greened-winged Teal Apr 17 Baird's Sandpiper Sep 13 Apr 26 Jul 24 Jul 25 Jul 24 Hallard Apr 04 200 50 Sep 13 50 650 Pectoral Sandpiper Hay 15 Aug 22 May 09 12 Aug 22 Morthern Pintail ADE 04 Aug 22 400 22 Apr 05 Stilt Sandpiper Hav 17 10 Hay 24 11 Hay 24 11 500 Blue-winged Teal May 03 12 Jul 23 30 Sep 13 2 Jul 11 150 Short-billed Dowltcher Jul 21 Aug 13 Cinnamon Teal May 03 Hay 24 Hav 09 Lbng-billed Dowitcher May 10 24 May 11 May 11 46 Northern Shoveler Apr 17 Apr 17 Sep 03 10 Jul 24 210 Common Snipe Aug 15 May II 6 Gadvall ADZ 26 6 Aug 22 21 Jul 11 85 Wilson's Phalarope May 01 Jul 31 12 Hay 17 100 Eurasian Vigeon Apr 05 Red-necked Phalarope Hay 17 Hay 17 5000 Jul 26 40 500Q American Wigeon 40 Apr 04 Sep 12 4 Jun 28 248 Canvasback Apr 05 6 Sep 13 5 Jul 11 44 Parasitic Jaeger Aug 22 1 Redhead ADE 05 1 Aug 22 17 Jun 26 85 Franklin's Gull Apr 17 Sep 12 49 Sep 12 49 Ring-mecked Duck Apr 28 Bonaparte's Gull Hav 17 Sep 13 350 Sep 13 750 Lesser Scaup ADT 04 10 Sep 13 20 Apr 17 530 Apr 17 325 Ring-billed Gull Apr 04 40 Sep 12 White-wing Scoter Hay 09 Jun 11 15 Jun 11 California Gull Apr 04 15 Apr 04 12 Aug 22 12 , Common Goldeneye Apr 04 12 Sep 12 Apr 17 125 Apr 18 Herring Gull 5 Aug 15 Jul 06 13 Bufflehead ADI 05 1 Aug 22 18 ADT 19 20 Common Tern Hay 09 Jun 21 Jun 11 8 Common Merganser Apr 17 6 May 30 1 Apr 17 Forster's Tern 50 Nay 03 Aug 22 Aug 1J Red-br. Merganser Apr 05 May 10 3 31 Apr 17 Jul 16 Black Tern May 09 Sep 13 190 Ruddy Duck Aug 22 ADT 17 May 11 60 Rock Dove May 10 1 Bald Eagle ADE 05 Apr 26 Apr 05 Mouzning Dove Hay 11 Jul 03 May 11 1 1 1 Northern Harrier Apr 04 Sep 12 Jul 31 Aug 15 Black-billed Cuckoo Jun 14 Jun 20 20 Sharp-shinned Hawk Hay 03 Aug 22 Jul 20 1 Cooper's Rawk Apr 05 Aug 22 Jun 06 2 Great Horned Owl Apr 04 2 Sep 12 1 Apr 04 2 Northern Goshawk Hay 17 Short-eared Owl Aug 16 5 Apr 17 2 Aug 16 5 Swainson's Hawk Jul 24 Jul 25 Jul 24 1 Apr 04 Northern Saw-whet Owl Apr 04 Jun 18 Red-tailed Hawk Apr 05 Aug 22 Aug 22 Common Nighthawk Jun 07 Colden Ragle ADE 05 3 American Kestrel Jul 21 2 Aug 09 1 Jul 21 2 Yellow-bellied Sapsucker 1 Jul 23 Jul 23 Aug 22 Merlin ADT 17 1 Aug 15 2 Aug 15 2 . Downy Woodpecker Jun 26 Aug 17 Jul 24 2 Peregaine (Falcon Jun 02 Jul 31 4 Jul 31 4 Morthern Flicker May 63 Apr 20 . 1 May 30

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Purple Hartin Tree Swallow Apr 17 1 1 Aug 11 5 Jul 24 2 Cliff Swallow Bank Swallow Hay 10 1 Jul 23 1 Jun 29 Bank Swallow Hay 16 1 Barn Swallow Hay 16 1 Barn Swallow Hay 16 1 Barn Swallow Hay 16 1 Bur Jay Bran Swallow Hay 10 2 Sep 13 8 Sep 13 N. Rough-W1. Swallow Jul 16 1 Jul 23 1 Jul 23 Jul 23 1 Jul 23 Blue Jay Blue	Species			Date and	No.	(n) bird:	s sighte	<u>a</u>
W. Wood-Pewee Hay 24 1 Aug 22 2 Aug 22 Traill's Flycatcher Hay 30 1 Aug 22 6 Jul 25 Least Flycatcher Hay 11 1 Aug 22 45 Aug 22 Great-created Flycatcher Hay 11 1 Aug 22 45 Aug 22 Great-created Flycatcher Hay 11 1 Aug 22 45 Aug 22 Great-created Flycatcher Hay 30 1 Aug 22 2 Jul 24 Horned Lark Apr 04 1000 Apr 05 500 Apr 04 1 Fore Swallow Apr 17 1 Aug 11 5 Jul 24 2 Cliff swallow Hay 10 1 Jul 23 1 Jun 29 Bank Swallow Hay 10 1 Jul 23 1 Jun 29 Bank Swallow Hay 10 1 Jul 23 1 Jul 29 Barn Swallow Hay 10 1 Jul 23 1 Jul 23 1 Jul 23 Blue Jay Hay 03 1 Jun 26 1 Hay 03 Black-billed Hagple Apr 04 2 Aug 22 2 Aug 09 American Crow Apr 04 6 Aug 22 4 Aug 14 Black-cpd Chickadee Apr 04 6 Sep 13 1 Aug 13 Red-brasated Nuthatch Hay 09 1 Jul 11 3 Jul 11 Bouse Wren Hay 17 9 Aug 22 6 Jun 25 Sedge Wren Hay 17 9 Aug 22 6 Jun 25 Sedge Wren Hay 11 1 Jul 25 1 Jul 07 American Crow Hay 10 1 Jul 25 20 Jul 25  Mountain Bluebird Apr 18 1 Sweinson's Thrush Hay 11 1 Jul 25 1 Jul 07 American Robin Apr 04 1 Aug 22 4 Jul 11 Sprague's Pipit Hay 03 1 Sprague's Pipit Hay 17 1 Sp		First		Las	t		нахіп	um No.
Traill's Plycatcher May 30 1 Aug 22 6 Aug 25 Cast Plycatcher May 11 1 Aug 22 45 Aug 27 Cast Plycatcher May 11 1 Aug 22 45 Aug 27 Cast Plycatcher May 11 1 Aug 22 2 Jul 24 May 10 1 Aug 22 2 Jul 24 May 10 1 Jul 23 6 Jul 24 2 Cast Plycatcher May 10 1 Jul 23 1 Jul 29		Sighting	n n	s l ç	htin	g n	Sight	ing :
Traill's Plycatcher Least Flycatcher Least Flycatcher Great-created Flycatcher Great-created Flycatcher Great-created Flycatcher Jul 12 1 Aug 22 2 Jul 24  May 10 1 Jul 23 6  May 10 1 Jul 23 1  May 11 5 Jul 24 2  Cliff Swallow May 10 1 Jul 23 1 Jun 29  Bank Swallow May 10 1 Jul 23 1 Jun 29  Bank Swallow May 10 1 Jul 23 1 Jul 29  Bank Swallow May 10 1 Jul 23 1 Jul 23 1 Jul 29  Bluc Jay  Bluc Jay  Bluc Jay  Bluc Jay  Bluc Jay  Bluc Apr 04 6 Aug 22 2 Aug 09  American Crow Apr 04 6 Aug 22 4 Aug 14  Black-cpl Chickadee Apr 04 6 Sep 13 1 Aug 13  Macherican Crow Apr 04 6 Sep 13 1 Aug 13  Macherican Crow May 10 1 Jul 11 3 Jul 11  Marsh Wren May 10 1 Jul 25 20 Jul 25  Macherican Crow May 10 1 Jul 25 20  Marsh Wren May 11 1 Jul 25 20  Marsh Wren May 11 1 Jul 25 1 Jul 07  Marsh Wren May 11 1 Jul 25 1 Jul 07  Marsh Wren May 11 1 Jun 05 1 Jun 11 1 Jun 05  Macerican Robin Apr 04 1 Aug 22 4 Jul 11  Gray Catbird Jun 05 1 Jun 11 1 Jun 07  Macerican Robin Apr 04 1 Aug 22 4 Jul 11  Gray Catbird Jun 05 1 Jun 11 1 Jun 07  Macerican Robin Apr 04 25 Apr 05 2 Apr 04  Marsh Waxwing Apr 04 25 Apr 05 2 Apr 04  Marchian Waxwing Apr 04 25 Apr 05 2 Apr 04  Marchian Waxwing Apr 04 25 Apr 05 2 Apr 04  Marchian Waxwing Apr 04 325 Jul 33 1 0 Jul 25  Morthern Shrike Aug 16 5 Aug 22 3 Aug 16  Loggerhead Shrike Aug 16 5 Aug 22 3 Aug 16  Marcherican Robin Apr 04 1 Aug 22 3 Aug 16  Marcherican Robin Apr 04 2 Aug 22 4  Marphing Vireo May 17 1 Aug 22 12 Jul 25  Marcherican Robin Apr 04 1 Aug 22 12 Jul 18  Marcherican Robin May 17 1 Aug 22 2 Apr 04  Marchian Waxwing Apr 04 325  Marchard Marbler May 17 1 Aug 22 2 Apr 04  Marchard Marcher May 17 1 Aug 22 2 Apr 04  Marchard Marcher May 17 1 Aug 22 2 Apr 04  Marchard Marcher May 17 1 Aug 22 2 Apr 04  Marchard Marcher May 17 1 Aug 22 2 Apr 04  Marchard Marcher May 17 1 Aug 22 2 Apr 04  Marchard Marcher May 17 1 Aug 22 2 Aug 22  Marchard Marcher May 17 1 Aug 22 2 Aug 22  Marchard M	U Good-Dauss	May 72	,	Bug	22	1	tua 2	2 2
Deast Flycatcher   Hay 11			_			_		
Size								
Agr 04   1000	Great-created Flycatcher	Jul 12		,		,,,	,,,,	
Purple Martin	Eastern Kingbird	May 30		¥пд	22	2	Jul 2	4 3
Tree   Swallow				Apr	05	500	Apr 0	1 1000
Sank Swallow			-				11 1	
Bank Swallow						-		
## Sarn Swallow   Hay 10   2   Sep 13   6   Sep 13   8   No. Rough-wi. Swallow   Jul 16   1   Jul 23   1   Jul 24   1   Jul 26   1   May 03   1   May 04   2   Aug 22   2   Aug 09   Aug 10   4   6   Aug 22   4   Aug 14   1   Aug 13   1   Aug 13   1   Aug 13   1   Aug 14   1   Aug 14   1   Aug 15   Aug 15   Aug 16   Aug 17   9   Aug 22   6   Jul 25   Aug 18   A				201	23	1	Jun 2	, ,(
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Seal Seal Seal Seal Seal Seal Seal Seal				Jul	25	20	Jul 2	5 20
Name		Apr 18						
Apr   Q4								
Stay Catbird		May 11						
Stown Thrasher   Hay 17   1				Aug	22	-		
May 17						-		
Sprague's Pipit				UUII	01	*	Dal T	•
### Schemian Waxwing								
Second Name   Shrike   Apr 04   1   Aug 22   3   Aug 16	Bohemian Waxwing			Apr	05	2	Apr 0	4 2
Loggerhead Shrike		Jun 05	12			10		
Solitary Vireo Solitary Vireo Warbling Vireo Hay 17 1 Aug 22 12 Jul 25 Philadelphia Vireo Hay 23 1 Red-eyed Vireo Jun 01 3 Aug 14 1 Jun 21 Fennessee Warbler Fennessee Warbler Fennessee Warbler Jul 02 4 Sep 12 2 Jul 18 Drange-crowned Warbler Rug 22 1 Fellow Warbler Hay 17 9 Aug 22 40 Jul 24 Ragnolia Warbler Hay 17 9 Aug 23 1 Aug 16 Rayrile Warbler Hay 09 1 Sep 13 6 Aug 22 Palm Warbler Hay 10 1 Blackpoil Warbler Hay 17 1 Resrican Redstart Jun 07 1 Aug 22 2 Aug 22 Rourning Warbler Jun 07 1 Jul 31 2 Jul 25 Filson's Warbler Aug 09 5 Aug 22 4 Aug 09 Festern Tanager Hay 09 1						•		
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Red-eyed Vireo				Aug	2.2	12	JU1 2	5 1
Tennessee Warbler				Aug	14	1°	Jun 2	1
Drange-crowned Warbler   Aug 22   1								
Aug 16		Aug 22	1			-	**	•
Nay 10   1   Sep 13   6   Aug 22		May 17	9	Aug	22	40	Jul 2	4 40
Plackpoil Warbler Hay 10 1 Plackpoil Warbler Hay 17 1 American Redstart Jun 07 1 Aug 22 2 Aug 22 Fourning Warbler Jun 07 1 Found Yellowthroat Jun 07 1 Jul 31 2 Jul 25 Filson's Warbler Aug 09 5 Aug 22 4 Aug 09 Festern Tanager Hay 09 1						1	Aug 1	6 :
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Nourning Warbler Jun 07 1 Common Yellowthroat Jun 07 1 Jul 31 2 Jul 25 Filson's Warbler Aug 09 5 Aug 22 4 Aug 09 Festern Tanager May 09 1				300	22	7	lug 3	,
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	30	2	Jul	31	1	Hay	30	2
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Jun	01	1			2	Apr	20	3
λpr	1.	2			3			3
λpr	04	100	•			-		
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Jun	11	3	Jul	03	2	Jun	11	3
λpr	17	300	Sep	13	15	Jul	17	350
Apr	17	1	Jun	11	1	Hay	01	2
May	03	3	Jul	24	2	Jul	16	5.5
Hay	09	10	Aug	09	1	Jul	17	50
Hay	17	6			4	Hay	30	10
λpr	17	1	Jul	07	2			10
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TABLE 6. Shorebird survey by the Beaverhill Bird Observatory in 1987

		Sightl	ng Date I	n May	
Species	16	17	18	23	30
Black-bellied Plover				2	
L. Golden Plover	1				
Killdeer	3				2
Am. Avocet		2	4	2	1
Lesser Yellowlegs	2				
Willet	3	2	1		1
Spotted Sandpiper	1				2
Marbled Godwit	1	2	2		
Ruddy Turnstone	6			2	
Sanderling					flock
Semipal. Sandpiper	3	•		2	
Least Sandpiper		6	18	4	
Pectoral Sandpiper	14	. 1	72		
Common Snipe		2			
Wilson's Phalarope	40	15	22	6	2
Red-nck. Phalarope		75	85		
Sandpiper species		•	.40		
Peeps			13		
Total	74	105	257	16	12

Table 7. Nest records from Beaverhill Bird Observatory vicinity in 1987

SPECIES	VISITS WITH	VISITS WITH YOUNG	ABANDONED OR DESTROYED	PLEDGED
Mallard	05/26 (8)		05/28	
Mallard	05/31 (8)			
Mallard	05/30 (10)		06/04	
Mallard	05/21 (9)		05/23	
Mallerd	05/17,31 (8,	11)		
Morthern Pintail	05/17 (7)			
Blue-winged Teal	05/17 (3)		-	
Blue-winged Teal	05/17 (6)			
Blue-winged Teal	05/31 (12)			
Blue-winged Teal	05/18 (9)		05/21	
Blue-winged Teal	06/01 (7)		_	
Morthern Shoveller	05/10 (8)		-	
Morthern Harrier	05/11 (0)		05/11	
Sharp-shinned Hawk		07/06-19 (3)		07/25 (
Wilson Phalarope	05/26,28 (2,4	4)	05/30	
Wilson Phalarope	05/24 (3)			
Black-billed Cuckoo	07/14,31 (2)	07/12 (2)	07/19	
Black-billed Cuckoo	07/31 (2)	0(4)4 (3)	08/01	
Sawwhet Owl	0/ (14 (4)	06/14 (1)		•
Least Flycatcher	06/14 (4)	06/28 (4)		
Least Plycatcher	07/07 (3)	07/07 (1) 07/03 (4)		
Least Flycatcher Barn Swallow	06/14 (4)			
Blcapped Chickadee	05/17 (9)	07/05 (4) 05/26-(9)		
31capped Chickadee		05/29 (8)	05/31	
31capped Chickadee		06/13 (8)	~ <i>71 7</i> 2	06/22 (8
11capped Chickadee	•	06/8-23 (6)		06/23 (6
umerican Robin	05/31 (4)	06/10 (3)		
merican Robin	06/14 (3)	06/16 (3)		
cllow Warbler	06/14 (4)			
ellow Warbler	06/14 (1)	06/20 (4) 06/14 (2) 06/20 (3)		
lay-colored Sparrow	05/31 (2)	06/14 (1)		06/19 (1)
lay-colored Sparrow		00,24 (2)		00,1) (1)
lay-colored Sparrow				
lay-colored Sparrow	06/28 (5 cowb	ird)		
avennah Sparrow	05/17 (1)	,		
ed-winged Blackbird	05/31 (1) 06/02 (3)			
ed-winged Blackbird	05/31 (4)			
ed-winged Blackbird	05/31 (5)			
ed-winged Blackbird	05/31 (4)			

# 4.2 Habitat Selection and Polygamy in the House Wren - Michael Quinn

This project was initiated by Geoff Holroyd and Mike Quinn in 1985. The project design in its present form consists of 4 grids containing 23, 24, 71, and 91 (210) nest boxes respectively. Two of the grids are in dense willow scrub and two are in more open balsam poplar forest. These boxes are monitored for settlement patterns and subsequent occupation characteristics. An attempt has been made to band and color-band all breeding and hatchling birds.

In 1987 there were 89 nesting attempts by House Wrens. Only 42 (47%) of these nests fledged young. Thirty of the nest failures were due to predation by least weasels (34%). Thirtyfour percent may be a slightly low estimate since the other 17 nest failures were not all explainable and some more may have been due to weasels. There were 16 nesting attempts by Tree Swallows, only 5 of which were successful. Failures were mainly due to House Wren and weasel predation. Both nesting attempts by Black-capped Chickadees were ended by weasels. The shorttailed and least weasels may prove to be a serious management problem for nest box programs at the BBO, especially those in forested areas.

At this time it is unknown whether field work will continue on House Wrens in 1988.

#### 4.3 Monogamy and Clutch size in Tree Swallows - Peter Dunn

The abundance of food is thought to influence mating behavior and clutch size of birds, yet there have been few studies that have actually tested these hypotheses. Food abundance has been correlated with clutch size of some species on a local basis, but we do not know why clutch size generally increases with increasing latitude. Similarly, most (90%) birds are monogamous, and it has been suggested that this occurs because most males do not have territories with enough food (or other resources needed by females) to support more than one mate. In 1986 I began a study to test some of these ideas about food using the large tree swallow colony at the BBO (535 birds banded in 1987 alone) started by Geoff Holroyd.

To study mating behavior, extra nest boxes were added to territories of some males to see if this improvement would result in polygyny in the higher quality (in terms of nest site, food, etc.) sites. Insects were sampled daily in different colony sites (lakeside, marsh and road). In relating food abundance to frequency of polygyny among the different sites, I discovered the relationship to be positive only during the egg-laying period. Therefore, food may not be as important as I thought previously.

Similarly, there was no consistent relationship between food abundance and clutch size over two years. These results will be compared with results of a continent-wide study of food abundance and clutch size that is coordinated by David Hussell at Long Point. Collection of data will continue in 1988, my last field season at the BBO. A simpler method of insect sampling will be tested so that BBO members can continue the study in future years.

# 4.4 Duck and Raptor nest boxes - Karl Grantmyre

In 1985, 44 duck and small raptor nest boxes were constructed by members and friends of the BBO (1985 Annual Report). Numbers and types of boxes erected in 1985 are as follows: 11 Kestrel, 5 Owl, 13 Bufflehead, 15 Goldeneye. In years following, boxes have been serviced in April and checked for nesting in May or June. This was the first year that target species were found using the boxes. The following species have been found nesting:

Species	1985	Number of nests 1986	1987
Tree Swallow	17	4	2
House Wren	2		1
Starling	5	17	
Goldeneye			1 -
N. Saw-whet Owl			1
Wasp	1	2	
Honey bee		1	
Unidentified		1	

#### **Appendix**

# Age and Sex Codes

The following abbreviations have been used throughout the report:

Age

Sex

HY hatch year

M male

AHY after hatch year

F female

SY second year

ASY after second year

U unknown

Owls banded near Sherwood Park in 1987 by Ray Cromie (BBO sub permittee)

- A) Northern Saw-whet Owl
- 31 banded from 6 nest sites
- 29 young (L/U) and 2 female adults captured on nest
- 22 nest boxes erected (not used)
- 3 young died of hypothermia due to May 19 snowstorm
- B) Long-eared Owl
- 9 young (L/U) banded from 2 nest sites
- 4 nest sites located:
- 1) 5 young, 4 banded
- 2) 5 young, 5 banded
- 3) 2 young, 2 fledged
- 4) 1+ young fledged
- 10 wire nest sites erected in "preferred" Long-eared Owl nesting areas; one of these sites was used by a Cooper's Hawk which fledged 4 young.

Raptor banding in Sherwood Park area and north, winter 1986/87 - Karl Grantmyre (BBO subpermittee)

Northern Goshawk

HY/M Oct. 28, 1986 HY/M Nov. 3, 1986

Mature female Nov. 12, 1986 Immature female Nov. 29, 1986

HY/F Jan. 8, 1987

Immature female Jan. 19, 1987 Immature female Jan 21, 1987

Great Horned Owl

1 on Dec. 26, 1986

Snowy Owl

2 on Feb. 15, 1987 1 on Mar. 8, 1987

A remarkable occurrence was the recapture on Feb. 23, 1987 of a Great Horned Owl that had been banded and released at the Ministik Bird Sanctuary, 12 miles from the capture site. It was recaptured less than 100 ft. from the original trapping location and was later released near Viking, Alberta.

# Rehabilitated Hawks banded and released in 1987 by Karl Grantmyre

- 1) 1387-12802 SY/F Rough-legged Hawk received from Leduc Fish and Wildlife, April 25, 1987. Right wing humorous was broken, but ulna was intact, and she had an appreciable infestation of lice. Both conditions were treated and recovery was excellent. Released May 27, 1987, the hawk did not return to the hackstand.
- 2) 987-46706 AHY Red-tailed Hawk with broken wing was received from Leduc Fish and Wildlife May 19, 1987. Veterinary care was provided and its recovery was excellent. It was released at hack, September 10, 1987.
- 3) 987-46707 HY Red-tailed Hawk with wing broken at the shoulder was received from Leduc Fish and Wildlife June 18, 1987. Veterinary care was provided and recovery was good. It was released at hack August 9, 1987.
- 4) 1387-12809 AHY Red-tailed Hawk, wing broken at radius and ulna, was received from a private individual April 25, 1987. Bird was released August 8, 1987 near site where it had been found.
- 5) 1387-12803 HY Red-tailed Hawk received with wing broken at the shoulder. Veterinary care followed by a good recovery allowed for bird's release at hack June 5, 1987.
- 6) 816-80606 HY/M Swainson's Hawk with wing broken at shoulder was received from a private individual August 9, 1987. Veterinary care followed by a good recovery allowed for its release at hack September 9, 1987.

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- McClure, E. 1984. Bird Banding. The Boxwood Press, Pacific Grove, CA.
- North American Bird Banding Volume 1. Prepared by Canadian Wildlife Service and U.S. Fish and Wildlife Service.

#### Participants and acknowledgements:

BBO executive, 1987:
Rainer Ebel, chairman
Karl Grantmyre, vice-chairman
Beryl Park, treasurer
Roger Jones, secretary
Jim Faragini, maintenance director
Geoff Holroyd, projects coordinator
Elaine Letourneau, newsletter editor
Nancy Ritchie, fund-raising director

BBO members, 1987: Debra Belmonte, Peter Dunn, Stefan Jungkind, Jim Lange, Roger Laycock, Mike Quinn, Shirley Talavia, Zerxis Talavia, Eric Wallace.

Assistants: Elisabeth Beaubien, Matthew Ebel, Raina Ebel, John and Donna McShane, Jim Robinson, Iles Wade

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