

2010 ANNUAL REPORT

by

Lisa Priestley, Editor

December 2010

Acknowledgements

We thank Katie Calon and Meaghan Bouchard for their hard work and commitment over the 2010 field season. We would also like to thank the Golodrinas crew Justin Proctor, Thera Lombard, and Juan Casillas and Cornell University for working with our Tree Swallows for the summer. We thank the Beaverhill Bird Observatory board of directors: Jim Beck, Christine Boulton, Al DeGroot, Geoff Holroyd, Chuck Priestley, James Sheppard, Bryn Spence, and Margaret Takats. We had many volunteers throughout the season and we thank them for their help (listed in the seasonal reports). Thank you to all the organizations that provided funding for our work in 2010: Alberta Conservation Association, Alberta Gaming and Liquor Commission (Casino funds). Alberta Sport Recreation Parks and Wildlife Foundation, Canada Summer Jobs, Community Spirit Program, Mountain Equipment Coop, Nature Canada (Charles Labatiuk Fund), Shell Environmental Fund, Student Career Placement Program, and TD Friends of the Environment. Donations (cash and in-kind) from various people are appreciated. We also thank all the volunteer owl surveyors, Hardy Pletz and Bob Gehlert for their dedication to our programs. We thank all the attendees to our Steaks and Saw-whets and BIG Birding Breakfast events and Janos Kovacs for providing the wonderful breakfast. Support from Edmonton Nature Club, Nature Alberta and Bird Studies Canada is greatly appreciated.



Volunteer and board member Matt Hanneman with his son Leyton.

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We, the authorised internal auditors assigned to audit the 2010 Financial Pecords of the Beaverhill Bird Observatory, have examined the attached sheets (together with receipts and cancelled cheques associated with each debit, receipts issued for donations, monthly bank statements and records of deposits made at the bank); and we find that the records as presented are complete, balance and are in order.

Signature

Alan Hingston (BBO member)

Helen Trefry (BBO member)

Helen Trefry

Date: Rebruary 4 2011

BEAVERHILL BIRD OBSERVATORY SOCIETY

Sex 7418 Edmontos: Alberta 757 2VIII

Balance Sheet

As of 13th Period 20

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Assets	
Current Assets	
Cheguing Account	\$16,715.62
Casino Chequing Account	\$7,687.76
Casino Investment Account	\$0.00
US cosh	\$0.00
Investments	\$10,000.00
Elson Investment Fund	\$20,000.00
Accounts Receivable	\$1,200.00
Interest Receivable	50.00
Deposits Paid	\$0.00
	90.00
Property & Equipment	\$4,236,32
Buildings Donation Boxes	\$541.00
Computer	\$2,471.43
Banding Equipment	\$2,350.00
General Mis. Equipement	\$2,176.25
Display Board	\$527.00
Refrigerator	\$2,000.14
Solar Panels	\$2,618.15
Lab Equipment	\$1,122.01
Total Property & Equipment	\$18,042.30
Total Assets	\$73,645.90
Current Liabilities Accounts Payable Deposits on account Total Current Liabilities Payroll Liabilities Income Tax Deductions Income Tax Deductions for Casi CPP Payable	\$0.00 \$0.00 \$1,739.40 \$1,900.00 \$534.66
CPP Payable Casino Account	\$0.00
El Payable	\$248.44
E I Payable Casino Account	\$0.00
Workers' Compensation Payable	\$0.00
Vacation Peyeble	\$0.00
Total Payroll Liabilities	\$4,322.50
exchange	\$0.00
Total Liabilities	\$4,322.50
Equity	
Retained Earnings	\$109,512,08
Current Year Earnings	(\$41,188.68)
Historical Balancing	\$1,000.00
Total Equity	569,323.40
Total Liability & Equity	\$73,645.90

BEAVERHILL BIRD OBSERVATORY SOCIETY

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Profit & Loss Statement

13th Period 2010

NAME OF STREET

DELETE PM	Chromat News	To of Dodge	North Date: North	TTD Sales
Income				
GRANTS				
Charles Labelluk Fund	\$0.00	NA	\$5,000.00	8.4%
MEC	\$0.00	NA.	\$1,100.00	1.9%
Community Spirit Program of AB	\$0.00	NA.	\$11,164.27	18.8%
Canadian Govt SCPP	\$0.00	NA.	\$5,513,00	9.3%
TD Friends of the Environment	\$0.00	NA.	\$1,500.00	2.5%
Builtle Birdathon	\$0.00	NA.	\$2,080.60	3.5%
ACA Stewardship Grant #2	\$0.00	NA.	\$10,200.00	17.2%
Burrowing Owl Account	\$0.00	NA.	\$9,600.00	16.2%
Total GRANTS	\$0.00	- NA	\$46,157.87	77.9%
Memberships	\$0.00	MA	\$500.00	0.8%
TALKS AND PRESENTAIONS	\$0.00	NA.	\$351.80	0.6%
Mis. Income	\$0.00	NA.	\$118.20	0.2%
Donations		1000		
General donation	\$0.00	NA	\$5,845.30	9.9%
Alberta Owl Surveys	80.00	NA.	\$1,737.98	2.9%
Total Donations	\$0.00	MA	\$7,583.28	12.8%
Interest	\$0.00	NA	\$72.82	0.1%
Casino Account Interest	\$0.00	NA.	\$465.17	0.8%
GST Refund GST Refund Casino	\$0.00	MA	8262.79	0.5%
Sales	\$0.00	MA	\$473.84	0.8%
	en en	444	esser en . /	
Pencake Breakfast	\$0.00	NA	\$295.00	0.5%
Steaks and Saw-whets Event 880 Conference Workshop	\$0.00 \$0.00	NA NA	\$1,778.00	3.0%
Total Sales	\$0.00	NA NA	\$1,160.00	2.0%
Total Income	\$0.00	NA.	\$3,231.00	5,5%
	20.00		2016,230,77	190.03
Cost of Seles				
Gross Profit	\$0.00	NA	\$59,256,77	100.0%
Expenses				
Office Expense				
Mail Box Rental	50.00	NA.	\$183,75 ×	0.3%
Prostage	\$0.00	NA.	\$37.53	0.1%
Printing	\$0.00	NA.	\$200.65	0.3%
Reports/Manuals	\$0.00	NA	\$1,029.97	1,7%
Telephone	\$0.00	NA:	\$593.72	1.0%
Bank Charges	\$0.00	NA.	\$72.76 -	0.1%
Miscellaneous Expenses	\$0.00	NA.	\$57.25	0.1%
Office Expenses	\$0.00	NA.	\$684.10	1.1%
Total Office Expense	\$0.00	NA	\$2,639,73	4.8%
Supplies	\$0.00	NA	\$2,252,10	3.8%
Event Expenses	\$0.00	NA.	\$54.86()	0.1%
Food	\$0.00	NA.	\$235.28 (7	0.4%
Photography & Administrative	\$0.00	NA.	\$1,099.10	1.9%
Repairs & Mritoe			\$385.86 (0.7%
Bands & Equipment	\$0.00	NA.	W-040-0-0-0-1	
Bands & Equipment Dues & Subscriptions	\$0.00	NA.		
Bonds & Equipment			\$30.00	0.1%
Bands & Equipment Oues & Subscriptions Property Taxes Insurance	\$0.00	NA.	\$30.00 \$147.24 4	0.1%
Bands & Equipment Dues & Subscriptions Property Taxes	\$0.00 \$0.00	NA NA	\$30.00	0.1% 0.2% 1.1% 0.3%

BEAVERHILL BIRD OBSERVATORY SOCIETY

Profit & Loss Statement

13th Period 2010

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2.5100 (9)			THE IS DIES TO	
180-00				
Mieage	\$0.00	NA.	\$5,071.40	8.6%
Travel Expenses	\$0.00	NA	\$2,134.05	3.6%
Payrol	40.00	NA -	*** ***	
Weges	\$0.00	1969	\$19,200.00	32,4%
Contract Work Others	\$0.00	DAM.	\$3,675.00	0.2%
GST Expense on Contracts	\$0.00	PAN	847.62	0.1%
Contract Work Exec. Director	\$0.00	NA -	\$4,552.38	7,7%
Vacation Pay Expense	\$0.00	NA	\$1,244.00	2.1%
Employer Expenses	\$0.00	NA -	\$1,229.08	2.1%
Steaks & Saw-whets Event	\$0.00	NA.	\$1,013.14	1.7%
880 Conference - Workshop Expe	\$0.00	NA.	\$716.85	1.2%
Owl Projects	\$0.00	PAA.	\$10,679.58	18.4%
AB Noct. Owl Survey Expenses	\$0.00	NA.	\$1,314.98	2.2%
Conference Travel Expenses	\$0.00	NA.	\$300.83	0.5%
Casino Expense Accounts	0.757.55			
Bank S/C Casino Account	\$0.00	MA	\$164.11 -	0.3%
NSWO Nestbox Monit. Mileage	\$0.00	74A	\$821.50	1.4%
880 Profile - Web & Newslette	50.00	MA	\$258.93 /	0.4%
Lab Upgrade	\$0.00	NA	\$1,000.00	1.7%
Sind Survey Field Tech Course	50.00	MA	4 \$889.48	1.5%
Education Alberta Expenses	\$0.00	NA.	3544.41	0.9%
GST On Contracts	\$0.00	NA-	\$400.00	0.7%
Contract Salary Casino Funds	\$0.00	NA -	\$24,000.00	40.5%
Salary Summer Staff	50.00	MA	\$11,900.00	20.1%
Emplorer Expense Casino Accoun	\$0.00	NA.	\$826,70	1.4%
	\$0.00	NA	\$100,445.45	
Total Expenses	30.00	- NA	\$100,440.45	169.5%
Operating Profit	\$0,00	NA	(\$41,188.68)	(69.5%
Other Income				
Other Expenses				
Net Profit / (Loss)	\$0.00	NA	(541,188.68)	09.5%

SEASONAL REPORTS 2010



Beaverhill Bird Observatory Spring Report 2010

by

Meaghan Bouchard

July 2010

Introduction

Yet another spring has come and gone here at the Beaverhill Bird Observatory. The staff at the BBO this year consists of Head Bander Katie Calon, and Meaghan Bouchard as Assistant Bander. Migration monitoring started on May 1st and ran until June 9th, with 13 nets set up around the banding lab. We have had an interesting spring filled with great species both spotted and banded on site, as well as plenty of time spent on raptor banding and trapping.

Songbird Migration Monitoring



Male and female Common Yellowthroats

The season started out a bit slow this year, with low capture numbers for the first 2 weeks of monitoring due to uncooperative weather keeping us from setting up nets. There were a total of 6 days that we were unable to band due to snow, wind and rain, and 7 days with no staff on site throughout the migration monitoring period. There were also a few mornings with late starts due to subzero temperatures or frost on the nets,

and early net closures due to wind. Despite these setbacks, total number of net hours was up significantly from previous years (Table 1), at 2016 net hours out of a possible 3120.

Within this time, a total of 333 birds were bunded this year out of the 497 that were caught. There were 37 returns (from a previous year), including a Yellow Warbler who was originally bunded in 2002, and 86 Repeats (recaught the same year, Table 2). There were many notable captures including an Eastern Phoebe, a bunded Hairy Woodpecker and several Yellow-bellied Sapsuckers. We also had an amazing variety of warblers come through the area, and were lucky enough to capture a Western Palm Warbler, a Magnolia Warbler, a MacGillivray's Warbler as well a Tennessee Warbler. We were also very excited to have

bunded a Black-Throated Green Warbler, which are uncommon at BBO, and a Canada Warbler, which is listed as a threatened species in Canada.

The top 5 species captured (Appendix A) were Least Flycatchers (131), Clay-coloured



Canada and Western Paim Warblers

Sparrows (81), Myrtle Warblers (38), Yellow Warblers (37), and House Wrens (32). These species accounted for 64% of the captured species, which is an increased proportion from the previous 3 years (Appendix A).

Table 1. Ten year trends for bird captures and net hours at the BBO.

Year	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Birds Captured	629	950	754	532	276	242	408	382	500	497
Birds Banded	472	740	546	424	196	169	318	288	351	333
Net Hours	1756	2569	2219	1809	1570	1615	1813	1828	1608	2016
Capture Rate	35.83	36.98	33.98	29.41	17.46	14.98	22.84	20.9	31.09	24.65
Species Captured	39	55	44	38	32	31	44	38	39	38

Table 2 Birds cought in mist nets at Beaverbill Bird Observatory Spring 2010

Species	Banded	Repeat*	Retum ²	Foreign ³	Other*	Total
Alder Flycatcher	4	0	0	0	0	4
American Goldfinch	8	0	0	0	0	
American Redstart	5	0	0	0	0	
American Robin	9	0	0	0	1	10
Baltimore Oriole	2	2	2	0	0	
Black-capped Chickadee	0	6	8	0	0	14
Blackpoll Warbler	3	0	0	0	0	
Brown-headed Cowbird	8	5	1	0	4	18
Black-throated Green Warbler	1	0	0	0	0	19
Canada Warbler	1	0	0	0	0	
Clay-coloured Sparrow	59	15	1	0	6	81
Chipping Sparrow	11	0	0	0	0	11
Common Yellowthroat	5	0	0	0	0	
Eastern Phoebe	1	0	0	. 0	0	- 8
Gray Catbird	2	0	0	. 0	0	- 3
Hairy Woodpecker	0	1	0	0	0	
Hermit Thrush	6	1	0	0	2	1
House Wren	20	4	3	0	5	3
Least Flycatcher	72	36	13		10	13
Lincoln's Sparrow	3	0	0		1	
MacGillivray's Warbler	1	0	0		0	3
Magnolia Warbier	1	0	0	0	0	- 2
Myrtie Warbier	35	0	0	0	3	3
Northern Waterthrush	2	0	0	0	0	- 3
Orange-crowned Warbler	2	0	0	0	0	- 3
Ovenbird	1	0	0	0	0	- 33
Rose-breasted Grosbeak	2	0	0	0	0	- 3
Song Sparrow	5	0	0	0	2	3
Sparrow sp.	0	0	0	0	1	
Swainson's Thrush	26	0	0	0	1	2
Unknown Yellow-rumped Warbler	1	0	0	0	0	
Tennessee Warbler	1	0	0	0	0	
Tree Swallow	0	0	0	1	0	
Warbling Vireo	1	1	3	0	0	
Western Palm Warbler	- 1	0	0	0	0	
White-throated Sparrow	16	0	0	0	2	1
Yellow-bellied Sapsucker	3	1	0	0	0	- 3
Yellow Warbler	15	14	6	0	2	3
Total	333	86	37	1	40	49

Banded recently (within 90 days) at the BBO.
 Banded at the BBO > 90 days prior to recapture (e.g. in a previous year).
 Banded at a location other than the BBO.
 Caught in a mist-net but not banded (e.g. escaped net).

Tree Swallows

The Tree Swallow boxes are being monitored this year by Justin Proctor and Thera Lombardi, who are working for the Golondrinas de Las Americas Project. They will soon be joined by a third member of the crew, Juan Casillas who is coming all the way from Mexico.



Thera taking the dimensions of a Tree Swallow egg

Thera and Justin have been hard at work covering three grids of 50 nest boxes in and around the natural area. As of June 9th, there were 30 Tree Swallow boxes with eggs, along with one House Wren egg, and 6 Mountain Bluebird chicks on the T grid. The S grid, which was set up in 2008 and has lower box occupancy, has only 6 Tree Swallow clutches and 4 Mountain Bluebird chicks. The third grid along Rowan's Route has 21 swallow nests with eggs and 3 bluebird nests.

Up to this point they have been monitoring and scoring nest construction in the boxes, as well as taking various measurements on the eggs as they are

laid. Each egg's size and weight and lay sequence are measured and recorded, as well as the egg's metabolism. This is done by measuring the amount of carbon dioxide the egg produces within a set time in a contained space.

They have also put effort into banding the adult female swallows, as they are easy to catch on the nest when incubating. This is accomplished by taping a flap of clear plastic to the inside of the box, over the hole, which allows the birds to enter but not to leave the box.

N Bound Cas

Rowan's Road Grid

Other Banding

Unfortunately, we were not able to attempt to catch the Purple Finches at the feeder again this year, though nets put up in the clearing for repair work did provide us with some interesting catches. A Ruby-throated Hummingbird found his way into a net undergoing repairs, and we all enjoyed marvelling at this ridiculously tiny and amazingly iridescent bird, not to mention wender how one does affix a band to such miniscule legs.

In raptor news, the saga of the Short-eared Owls who have been active over the lakebed has been a prominent storyline through the spring at the lab.



Least Flycatcher sitting on her nest

Geoff Holroyd and Helen Trefry were out by Lister Lake on May 1st for the first of many attempts to capture the Short-eared Owls that they had spotted hanging around the area in order to attach a GPS transmitter. Several nights were spent by Katie and Geoff setting up and watching the baited traps, and observing the activities of the 3 owls on Lister Lake. Geoff decided to stay onsite to put in some serious hours searching for nests on the lakebed. Through some teamwork from Justin, Thera and Katie, we were finally rewarded with one nest of 4 and Geoff's efforts paid off with a nest of 7 eggs. Geoff later found a third nest, and set up traps over the nests to try and capture the adult females in order to attach the GPS unit.

The staff at the BBO were also invited along to do some raptor banding in and around Tofield. A big thanks to Al DeGroot and Hardy Pletz for bringing us along to band Great Horned Owl chicks.



Hardy with a Great Horned Owl chick

It was quite an experience, from watching Al scale trees while avoiding angry adults, to handling the chicks, which gave us a close up view. We visited 6 nests in all and banded 3 of them, for a total of 8 young.

Geoff and Justin also spotted a Least Flycatcher who has set up a nest beside the outhouse, complete with toilet paper in the construction. This has made for an easy nest to monitor and use as a guideline for the development of eggs and chicks in other nests around the BBO.

A Clay-coloured Sparrow nest housing 3 eggs was also found on the way out to the Weir station when the female flushed as we walked by. It is amazing how well these birds can hide a clutch of blue eggs on the ground, with nothing but grass and shrubs for cover. The nest boxes along Range Road 183 and at Francis Viewpoint have also been productive. A check on May 13 found 6 Mountain Bluebird nests with eggs already laid, and another 4 nests with eggs on the swallow grids. One impressive clutch already had 7 beautiful blue eggs sitting in it!

Other Work

Justin has put in a lot of time towards fixing things up around the lab, including repairing the solar shower and repainting and replacing several of the damaged and missing road signs within the natural area. He ensured that we had a steady supply of cut and split firewood to get us through the crummy weather, so a big thank you for all your help!

Al DeGroot also came to set up the tarp over the balcony again this year, which allows us to enjoy the deck rain or shine!

Minor repairs to the nest boxes were completed in early May in preparation for the arrival of the Tree Swallows. We have also spent time repairing and setting up mist nets and clearing net lanes in preparation for MAPS, which starts June 10.

Interpretation

Katie hosted a group from the Edmonton Nature Club on May 8th. They enjoyed being able to take a close look at the one Myrtle Warbler that was captured while they were on site. Lisa Priestly also presented a talk to the Biology 20 class in Tofield on Monitoring, Research, and Education at the Beaverhill Bird Observatory.

We were lucky to have beautiful weather and a good turnout this year for the Big Birding Breakfast, which took place on June 6. Approximately 30 visitors were able to make it out, and all enjoyed Janos Kovacs'



Katie with a group of young enthusiasts at the Big Birding Breakfast

delicious jam and pecan crepes. Thank you to all the members who came out to help set up and keep the morning running smoothly. A relatively quiet day for birds, with 17 caught in total and mostly before the crowds arrived. Thanks to Robin Pimm who camped out the night before and helped with net checks. One couple who arrived early were rewarded with some one on one time with the Least Flycatchers and Clay-coloured Sparrows that were caught on the first few net checks. The pair of American Goldfinches and the Gray Catbird were big hits, it was neat to catch some flashy birds. It was great to see all the kids out for the breakfast as well, full of enthusiasm and thrilled to have the chance at being pecked by a Black-capped Chickadee.

Also thank you to all the visitors who came to spend time in the natural area, it is always nice to have folks out to enjoy the sights and sounds. It was great to see Irene and Onyx, Anita Hanneman and her kids, Rachel and her two sons, Kathy St. Laurent and Alan Marsh, as well as all those who came through without making it into the guest book. Thanks also to Anna Daku and Finn for coming out to help band, and for bringing back some amazing warblers. We hope you will all come and visit again soon!

Acknowledgements

Another big thank you of course goes out to all those who have contributed their time and energy at the BBO, your efforts are much appreciated!

Thank you to Lisa Priestley and Geoff Holroyd for covering banding on staff days off, as well as to Justin Proctor for assisting. And again thank you to Al DeGroot and Hardy Pletz for bringing us on their rounds banding Great Horned Owls, and to Geoff for including us in the saga of the Short-Eared Owl, we had a great time!

Again thanks to those who came out to help set up and keep everything running smoothly for the Big Birding Breakfast, and of course to Janos Kovacs for feeding us all breakfast.

Appendix A. Top 5 Species

Year	2002	2003	2004	2005	2006	2007	2008	2009	2010
#1 Captured Species	Lossi Plyosother (224)	Lessi Plyostcher (174)	Myrtle Warbler (162)	Loan Flyonicher (SE)	Least Physalcher (99)	Clay-coloured Sparrow (72)	Least Plyostchor (84)	Least Flyoatcher (70)	Loset Flytancher (131)
#3 Captured Species	Clay-coloured Sparrow (143)	Myrde Warbler (149)	Chipping Sparrow (59)	Yollow Warbler (47)	Yellow Warbler (32)	Least Pipostoher (70)	Yellow Warbler (37)	Clay-coloured Sparrow (96)	Clay-coloured Sparrow (B1)
#3 Captured Species	Yollow Warbler (115)	Yellow Warbler (219)	Clay-coloured Sparrow (S1)	Clap-coloured Sparrow (27)	Chey-coloured Sparrow (27)	Myrtle Warbler (35)	Brown-headed Cowbird (35)	Myrtle Wurbler (3d)	Myrde Warbler (38)
#4 Captured Species	Swainson's Thrush (82)	White-decembl Sparrow (48)	Least Plycancher (51)	Swainson's Thrush (20)	Swainson's Thruth (19)	Yellow Wartier (25)	Myrtic Warblor (27)	Swainson's Thrush (25)	Yellow Warbler (37)
#5 Captured Species	White-throsted Sparrow (64)	Clay-coloured Sparrow (40)	Swainson's Thrush (40)	Myrtic Warbler (19)	House Wree (17)	House When (22)	Swainson's Thrush (25)	Yellow Warbler (18)	House Wren (32)
% of total Captures	66%	70%	66%	66%	66%	53%	59%	49%	64%

Government of Alberta

Sustamable Renource Development Fight and WARRA Diversor 49354

General Permit - GP

RESEARCH PERMIT

District: St. Paul

FEE S NIL

PERMITTEE Justin Proctor of Cornell University

ADDRESS Comell University, Ithaca, New York, USA

IS AUTHORIZED TO

Band and collect blood, feather, and insect samples from tree swallows in nest boxes near Beaverhill Lake. Permit extends to David Winkler.

DATE OF ISSUE July 25, 2011 DATE OF EXPIRY: August 31, 2011

Signature of Permittee

For Minister of Alberta Sustainable Resource Development

IN ACCORDANCE WITH

The attached addendum, the Animal Care Committee Protocol #11-253, and;

 Any injured wildlife will be reported to the Area Wildlife Biologist (780-645-6335) or District Enforcement Officer during regular business hours or to the Report a Poncher line (1-800-642-3800) after hours.

**IMPORTANT

District Office instructions:

Please photocopy this document once it is issued and forward copies to:

Original - Permittee

Copy to - Widdle Management, Edmonton HQ

Copy to - Licensing & Revenue Services, Edmorton HQ

Copy for I laboring District.

48019

of Alberta M Sustainable Resource Development Fish and Middle Division

Licence - CN:

COLLECTION	CENCE		District	St. Paul
FEE S NIL. NAME: Justin Proc	itor of Cornell Un	iversity		
ADDRESS Come	dl University, Ith	uca, New York	k, USA	
a authorized to colle	ect the following w	Tree su	allows from nest boxes fo	or the purpose of
bunding and colle	reting blood, fea	ther, and insect	t samples.	
This licence authorionest boxes and sa			ment and methods <u>Collection</u> Is.	on by hand from
This licence is valid	ilocation) Beaver	hill Lake area		
OFFECTIVE DATE:			DATE OF EXPIREY Aug	ust 31, 2011
Collections are to co		enece and Davi		
	-		Date of issue: J	uly 25, 2011
Conditions: The licence must This licence is not Persons collecting and Waltife Office If any information of any sind, the lic Villen 7 days of t	the Sustainable Ro theop the appropri to constructio g under the authority or when carrying our obtained from the co- pences shall forwer the expiry of the libe	see Fish and Wilds y of this licence in collection activiti ollection of any w £ a copy of such p rice. The foirces	te Officer informed of collector ust produce a capy of the licen	ce on the request of a Fis in a report or publication dife.
Collection Date	Species	Sex MF	Location	Disposition

IMPORTANT

District Office Instructions:

Please photocopy this document once it is issued and forward copies to:

Original -- Littences

Copies to Licencing Services-Entronton HO. Region. Insuing District



Research Permit and Collection Licence General Conditions

Addendum to Research Permit #49354 GP and Collection Licence #48019 CN

- It is the responsibility of the licencee to contact the appropriate Fish and Wildlife Division District Officer and the appropriate landowner prior to the commencement of any permitted activities.
- The permit is valid only for research and collection activities in the specific area and for the dates identified on the permit.
- This permit is not valid on private land or lease land without the written
 permission of the landowner or lease holder. This permit is not valid in any
 Provincial Park, Ecological Reserve, Wildland Park, Natural Area or Wilderness
 Area. If approval is needed in these areas, please contact your local Parks and
 Protected Areas authority.
- Permits are not transferable and must include the names (when known) of all authorized project members who must be prepared to show a copy of the permit on the request of a Fish and Wildlife Officer.
- The permittee is responsible for ensuring that public safety is not endangered by activities associated with the project.
- The permittee shall be held accountable for damages to resources or property arising directly or indirectly from the project.
- The issuance of this licence does not exempt the holder from any other Canadian Laws that might otherwise apply.
- All captured animals must be handled in a humane manner and according to the approvals of the Wildlife Animal Care Committee.
- Animals captured using immobilization drugs must follow the Fish and Wildlife Drug protocols.
- A report of the past years' activities is required before permits are renewed.
- All observations made during your project are to be provided within either:
 - a. a Fish and Wildlife Management Information System 'FWMIS_load.xls' digital file or
 - b. for where USFWS bands are used in the project, a "Band Manager" digital export (see attached instructions titled: Submitting Banding Data to Alberta Sustainable Resource Development). Note: Banding data locations are to be provided as Latitude/Longitude in Degrees-Minutes-Seconds.

This completed file is to be returned to the Fish and Wildlife Division, as part of your annual or final report, upon completion of the project (no later than April 1t, 2012). The 'FWMIS_load.xls' digital file can be accessed at the following web address:

http://srd.alberta.ca/ManagingPrograms/FishWildlifeManagement/Fisheries WildlifeManagementInformationSystem/Default.aspx.or, by contacting Lonnie Billyk (GIS Analyst) at (780) 427-8136 or email at Lonnie,Billyk@gov.ab.ca



Freedom Te Create, Spirit To Achieve



Summer Report 2010

Katie Calon

Introduction

The summer staff of 2010 was made up of Katie Calon (Head bander) and Meaghan Bouchard (Assistant bander) who were responsible for carrying out the Monitoring Avian Survivorship and Productivity (MAPS) Program. The MAPS program has been in operation since 1989 and was created by the Institute for Bird Populations with the goal of monitoring the vital rates and population dynamics of North American land birds¹. The three MAPS stations run on the Beaverhill Natural Area are the Beaverhill lab (BLAB), an area east of the weir (WEIR), and another area south of the lab (PARK). At each site there are 10 mist nets, and 9 point count locations. This year monitoring began on June 11th and was carried out until July 31st. During that time period, five 10-day rotations were carried out comprised of one day of constant effort mist-netting, followed by point counts at each respective location.

This summer was filled with a variety of other activities, such as nest searching, nest side banding, assisting with the Golondrinas de las Americas Project, as well as writing updates and conducting general maintenance around the lab. This year there was the added challenge of a Golondrinas staff member who spoke only Spanish, so we all learned a few 'birdy' Spanish words! We also managed to fit in some fun activities like BBQs, Canada Day celebrations, a birthday party, and a trip to Islet Lake to find some water for a day of canoeing.



Loading up the canoe for a day on the water

Mist Netting

Constant effort mist-netting is the main method of data collection for MAPS. Mist nets (12m long, 30mm mesh) were set up at sunrise and monitored for 6 hours each day. Banding only occurred during standard weather conditions, with temperatures between 0°C and 27°C. Wind speed had to be less than 20 km/h, described as leaves and twigs in constant motion (Beaufort scale value of 3).

All 900 hours of banding were successfully completed this summer. In a few rounds we were interrupted by poor weather, but we were able to catch up the lost net hours within the same round. A total of 291 birds of 17 different species were captured in the mist nets. The summary of all species captured is broken down by location in Appendix 1.

PARK

The PARK station (Lat 53 22 34 Long 112 31 45) has been in operation since 1996. A total of 70 individual birds were caught here in 2010, from 9 species through the 300 hours of mist netting, resulting in 23.33 birds/100 net hours. This location consistently has the lowest capture rate of the three stations; however in 2010 it had a reasonably high capture rate as compared

to previous years (Figure 1). See Appendix 1 for the species breakdown of birds caught at this location.

Dates banding was conducted were: June 14th, June 22th, July 5th, July 7th, July 16th, July 17th, and July 21th. On two separate days (July 5th and July 16th) we were forced to close the nets due to rain, but were able to catch up the net hours within the same round (July 7th and July 17th).

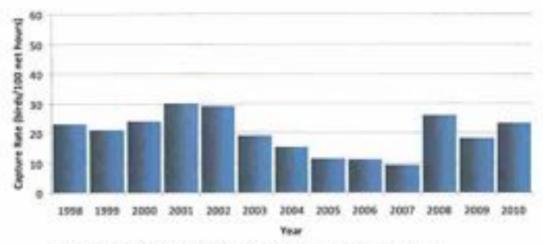


Figure 1. Capture rates from 1998 to 2010 at the PARK MAPS station.

BLAB

The BLAB station (Lat 52 22 50 Long 112 31 39) has been operating since 1989, the very start of the MAPS program. A total of 119 birds were captured during the mist netting at this location from a total of 13 species in 300 net hours. This yielded a capture rate of 39.67 birds/100 net hours. Since 1998 the capture rate at BLAB has fluctuated quite a bit, with the capture rate for 2010 being one of the highest over this time period (Figure 2). See Appendix 1 for the full breakdown of birds caught at this location.

Dates Banding: June 13th, June 21st, June 30th, July 10th, July 20th. We lost no net hours at this station due to poor weather.

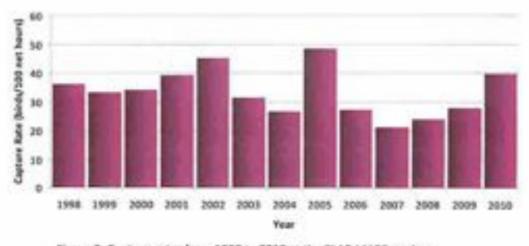


Figure 2. Capture rates from 1998 to 2010 at the BLAB MAPS station.

WEIR

The WEIR station (Lat 53 22 48 Long 112 30 19) has been in operation since 1994. In 2010, a total of 103 birds from 12 species were captured in 300 total net hours, yielding a capture rate of 34.33 birds/100 net hours. The capture rate appears to be on a steady incline from 2007 to 2010 (Figure 3). See Appendix 1 for the species breakdown of birds caught at this location.

Dates of banding were: June 15th, June 23rd, July 6th, July 18th, and July 27th. We lost no net hours at this station due to poor weather.

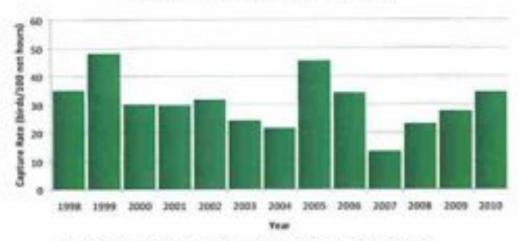
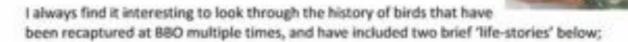


Figure 3. Capture rates from 1998 to 2000 at the WUR Maps station

All stations

The four most abundant species that were banded during MAPS at all three stations were Least Flycatchers (106, 67.1%), American Robins (11, 6.9%), Clay-coloured Sparrows (9, 5.7%), and Baltimore Orioles, Warbling Vireos, and Yellow Warblers (all species 5, 3.2%). The four most abundant species caught were Least Flycatchers (198, 67.8%), American Robins (17, 5.8%), Warbling Vireos (13, 4.5%), Clay-coloured Sparrows and Brown-headed Cowbirds (11, 3.8%).



Bird band #2340-78637

This Least Flycatcher was originally banded on June 19, 2006 out at the WEIR station. It was identified as being in its second year, so was hatched in 2005. Since 2006, this bird has been caught numerous times; 2007 – once, 2008 – twice, 2009 – twice, and 2010 – three times. Every capture has occurred at the WEIR station, in either June or July. This is likely an example of a bird that has a preferred breeding territory, and returns to it year after year. Maybe we'll see it again next year?

Bird band #1861-68151

This Veery was originally banded on July 14th, 2005 by Lisa Priestley at the BLAB station. It was identified as being in its second year, so it was hatched in 2004. She had a brood patch, so we can assume she bred on-site somewhere in that year. Since the year it was banded, this bird was captured again twice, once in 2008, and once in 2010. Where was she in between? Who knows, maybe she was in the Natural Area and we simply didn't catch her, or maybe she tried out different sites and decided to come back this year. She had a brood patch once again in 2010, so we can assume she was breeding on site.

Point counts

Point counts were also conducted at nine locations within each of the MAPS stations. Point counts were done in the same 10 day rotation as the mist netting, but on separate days than the mist netting. At each point count observers listened for 10 minute periods and recorded all birds heard within that time, noting the approximate distance of the bird from the observer, the direction of the bird, as well as in which time interval the bird was heard singing. Interval 1 = 1-3 minutes, Interval 2 = 3-5 minutes, and Interval 3 = 5-10 minutes. The list of species heard during point counts can be found in Table 1. Dates point counts were conducted are as follows:

Park June 17th, June 24th, July 7th, July 15th, July 26th, Blab June 10th, June 28th, July 7th, July 17th, July 28th Weir June 16th, June 24th, July 8th, July 15th, July 26th, Table 1. Number of detections for each species at the 880 MAPS stations (combining of all visits listed above).

Species	BLAB	PARK	WEIR	Grand Tota
Alder Flycatcher	0	0	2	2
American Crow	2	38	3	43
American Goldfinch	37	15	14	66
American Robin	10	7	26	43
Baltimore Oriole	34	5	19	38
Black-billed Magpie	.0	0	1	1
Black-capped Chickadee	22	14	5	41
Brown-headed Cowbird	30	21	37	88
Canada Goose	0	1	0	1
Clay-coloured Sparrow	15	11	6	32
Cedar Waxwing	2	4	5	11
Common Raven	24	13	3.4	51
Common Yellowthroat	0	0	1	1
Dawny Woodpecker	0	4	2	- 6
Hairy Woodpecker	0	1	6	7
Hermit Thrush	10	12	1	23
House Wren	20	10	31	61
Least Flycatcher	374	175	141	490
Mourning Dove	0	1	4	. 5
Myrtie Warbler	0	0	1	-1
Northern Flicker	0	1	1	2
Ovenbird	1	0	2	3
Rose-breasted Grosbeak	2	2	0	4
Ring-billed Gull	0	1	0	- 1
Red-breasted Nuthatch	1	0	0	1
Red-eyed Vireo	0	1	0	- 1
Red-tailed Hawk	1	0	- 1	2
Ruffed Grouse	0	1	2	3
Red-winged Blackbird	9	9	15	33
Song Sparrow	1	0	6	7
Tree Swallow	19	5	5	29
Unknown Duck	1	0	- 5	6
Warbling Vireo	34	26	51	111
Western Meadowlark	1	0	0	1
Yellow-bellied Sapsucker	0	2	1	3
Yellow Warbler	41	28	32	101
Grand Total	471	408	440	1319

Golondrinas de las Americas

This year was another active one out on the Tree Swallow grids for the Golondrinas de las Americas staff, made up of Justin, Thera, and Juan. The 147 swallow boxes were steadily monitored between June 10th and July 21st. Chicks were weighed regularly, had blood samples taken for DNA analysis, were subjected to cooling experiments, and finally banded prior to fledging. A significant amount of effort was put into capturing all the adults nesting on the grids, and while not 100% successful, a very large proportion of the adults were captured, had blood samples taken, and were banded.



The Golo-crew, doing what they do best, checking boxes!

New to this years' protocol was the use of perch counters combined with feeding observations. Perch counters were mounted on the swallow box entrances and recorded each time a swallow perched at the entrance. The preliminary data looked very interesting, with adult tree swallows visiting the box steadily during the peak feeding period!

One Tree Swallow, a male from the S grid, box 8 proved to be a challenging individual to capture. He was significantly more aggressive and territorial than any of the other birds on the grids, and would

dive and swoop endlessly at anyone that was near the box, however he would never ENTER the box to be captured and banded! Finally the Golondrinas staff were able to catch him, by setting up a mist net near the box and having Juan stand near it as 'bait'. When they caught him, he turned out to be banded, #1661-11190, a bird that I banded back in 2006 as an After Second Year male! He has not been caught since that year at any of our swallow grids.

All in all the Tree Swallows had a very comparable year to 2009, except that a higher percentage of the nests were successful, and more adult birds were banded and recaptured. A summary of nesting statistics for the Tree Swallows in 2009 and 2010 is presented in Table 2. In addition to the Tree Swallow grids, a nest of 5 Tree Swallow chicks were successfully raised in 'The Cabin', a nest box found in the trees near the lab.

Table 2. Comparison of breeding statistics for the Tree Swallows monitored during the Golondrinas de las Americas project in 2009 and 2010.

	2009	2010	2009	3010	2009	2030	2009	2030
Grid			. 1	Y.	. 5	- 5	Total	Total
Avuilable boxes	48	48	49	-49	.50	10	147	347
TRES next attempts	23	25	39	36	.5.	12	67	64
Boxes with successful TRES nexts [%]	39.6	41.7	67.3	53.1	10.0	18.0	36.6	46.7
Failed TRES nexts	4	- 6	- 6	0	0	3	10	
Rate of TRES next failure (NE	17.4	12.5	15.4	0	0	25	14.9	14.1
Avg TRES young/next	4.2	4.8	5.7	4.5	4.2	4.4	5.1	4.6
Highest clutch size	6	7	7	3	. 5	7	7	7
Lowest clutch size	1	3	3	1.	3	2	1	1
MOSL nests	1	3	1	2	2	E.	4.	
HOWKnests	.0	1	2	7	0	0	2	
Adult TRES banded	27	43	64	59		18	98	120
Adult recapture rate (N)	14.6	41.9	29.1	54.2	14.9	27.8	30.6	57.5
Total TRIS fiedglings	80	96	187	118	25	40	298	254

Natural Area

Nest-side banding within the Beaverhill Lake Natural Area was quite active this year, with a total of 22 nests that were monitored throughout the summer (Table 3). Thanks to the Golondrinas staff, for discovering some of these nests and helping us to monitor them! One memorable nest from this summer was that of an American Robin on the edge of the tree line near the T-grid. When Meaghan and I went to band the young in that nest, we were strongly encouraged to leave, by the most assertive mother Robin (make that passerine!) I have ever encountered. She was swooping and diving at us the entire time and even connected with Meaghan's hand as she replaced the chicks. We got the message and got out of there quickly, but not before the young were sporting bands.



Table 3. Nests monitored within the Beaverhill Lake Natural Area in 2010 and their outcomes.

Species	Young Banded	Outcome(1)
American Robin		Falled
American Robin	2	Successful
American Robin	+	Unknown
Clay-coloured Sparrow	43	Successful
Clay-coloured Sparrow		Failed
Clay-coloured Sparrow		Failed
Clay-coloured Sparrow		Failed
Clay-coloured Sparrow	2	Successful
Clay-coloured Sparrow		Successful
Clay-coloured Sparrow	2	Successful
Clay-coloured Sparrow		Unknown
House Wren	8	Successful
House Wren	7	Successful
Least Flycatcher	1	Successful
Least Flycatcher	4	Successful
Least Flycatcher	3	Successful
Northern Harrier		Falled
Northern Harrier	4	Successful
Short-eared Owl	+	Falled
Short-eared Owl		Falled
Short-eared Owl		Failed
Yellow Warbler		Failed

(1) Outsiames are defined as follows; flucesoful = shicks were capable of fiedging on the last visit to the nest, Falled = at the egg stage, or chicks were present and incapable of fiedging and insufficient time had elepted to allow them to fiedge between visits; Unknown n chicks were incapable of fiedging, but sufficient time had elapsed to allow them to fledge between visits.

Francis Point/Elson Bluebird Trail/Rowan's Route

We certainly were not limited to the confines of the Natural Area this year in our nest monitoring, and struck out in the surrounding area to find additional nests. As usual, we monitored the nest boxes along Elson Olorenshaw's old Bluebird trail, including those a mile from the natural area, and those found at Francis Viewpoint. In addition to the nest boxes, we had a few natural nests that the Golondrinas staff found along Rowan's Route as they checked the boxes of the R-grid.

We had a few interesting observations while monitoring nests in these areas, for one, we found an Eastern Bluebird nest! There are few records of this species breeding in Alberta, and we were able to monitor a nest of four young from the egg stage up until they fledged. Of course we had no idea they were Eastern Bluebird eggs or young... they kind of all look the same at that stage, but when we trapped the female on the nest we were quite surprised! We had numerous sightings of the male and female, but despite our efforts we were unable to capture the male, he was extremely wary whenever we were within 100 meters of the nest box. Also of interest a



Adult female Eastern Bluebird

House Wren once again used a Barn Swallow nest at the Francis Viewpoint blind. They are resourceful little birds known to nest in various places. It is a lot harder to hold onto fledgling House Wrens when they are in a cup nest as opposed to a nest box, and some managed to fledge before we could band them.

Table 4. Nests monitored outside the boundary of the Beaverhill Lake Natural Area in 2010 and their outcomes.

Species	Young Banded	Outcome(1)
Barn Swallow	4	Successful
Black-bifled Magpie	7	Successful (very!)
Eastern Bluebird	.4.	Successful
House Wren	2, 3 escaped	Successful
House Wren		Unknown
House Wren	4	Successful
Mountain Bluebird	5	Successful
Mountain Bluebird	5	Successful
Mountain Bluebird	5	Successful
Mountain Bluebird	6	Successful
Mountain Bluebird	6	Successful
Mountain Bluebird	4	Successful
Mountain Bluebird	6	Successful
Savannah Sparrow	4	Successful
Savannah Sparrow	4	Successful
Savannah Sparrow	+	Failed
Tree Swallow	5	Successful
Tree Swallow	4	Successful
Tree Swallow	6	Successful
Tree Swallow	5	Successful
Tree Swallow	5	Successful
Tree Swallow	6	Successful
Tree Swallow		Unknown
Tree Swallow		Unknown
Tree Swallow		Failed
Tree Swallow	and the same	Falled
Tree Swallow	5, 1 escaped	Successful
Tree Swallow	2	Successful
Tree Swallow	5	Successful
Tree Swallow	6	Successful
Vesper Sparrow	4	Successful

(1) Outcomes are defined as follows: Successful - chicks were capable of findging on the last visit to she next, fulled - at the egg stage, or chicks were present and incapable of findging and insufficient sine had elapsed to allow them to findge between visits; Unknown - chicks were incapable of findging, but sufficient time had elapsed to allow them to findge between visits.

Other Areas

The staff were also able to take part in the banding of one nest of Northern Saw-whet Owls in the Ministik Lake Natural Area. Many thanks to Lisa for taking us out to participate!

Other Wildlife

Other animals seen throughout the summer within the natural area include Moose, Whitetailed Deer, Coyotes, Snowshoe hares, Porcupines, Voles, and Northern Flying-Squirrels. The Porcupines in particular have made their presence known this year, with an adult and young individual hanging around most evenings throughout the summer enjoying the seed from the bird feeders, and munching on the lettuce that Thera had planted.

Butterflies detected in the Natural Area throughout the summer include; Red-disked Alpine, Canada Tiger Swallowtail, Fritillary sp., Painted Lady, Mourning Cloak, White Admiral, and Green Comma.

Volunteers/Visitors

A number of visitors joined us out at the lab, we were pleased to have the following people stop by for a visit;

Ashley Thorsen Milo and Scott Staufer Patrick, Kim, Sara, and Nora (Golondrinas Saskatchewan crew)

As well as many whose names we did not catch, or that we knew of only by the presence of their vehicles in the parking lot. We hope they all enjoyed their visit, the birds, and will think to come back again soon!



Summary of species captured during the MAPS program for each banding location from June 11, to July 31, 2010.

	Banded				Report			Return			Ohr			Gard Total			
Species	THEK	81/40	WE	t (mea	DIAG	WIR	FF	WK BAS	WER	EFFEC	12.70	WER	FWW	DLAG	WIR	TOW	
American Gddfinch	10000	0	1	0	0	0	q	0	0	q	0	0	q	0	1	0	
American Politin		0	6	4	0	1	a	0	0	d d	0	4	4	0	31.	6 1	
Baltimore Chole	H X	0	0	5	1	0	0	0	0	5	0	0	4	1	0	6	
Black-capped Chickedon		0	1	o o	0	0	O	0	0	d	0	0	d .	0	1	0	
Brown-headed-Gootled	100	0	1	3	1	0	1	1	0	c c	0	3	2	2	4	5 3	
Clay to know Species		4	2	3	3.	0	a	0	1.	9	0	0	q	5	3	3 3	
EDWY VEXIDAGES		1	0	2	0	0	0	0	0	d	1	0	d:	2	0	1	
Hernit Thrush		1	1	q	0	2	O	2	1.	d	0	0	d .	35	4	0	
HouseWen		0	0	4	0	2	q	0.	0	d	0	1	q	0	3	4	
tentilyanter	1	36	302	30	9	31.	11	6	12	7	2	7	7	53	82	63 29	
Martie Wartler	4 33	0	0	C C	0	0	q	0	0	q	0	0	7	0	0	1	
Naffed Grouse		0	0	q	0	0	a	0	0	d	0	1	d .	0	1	0	
Shap-shread Havk	9 8	0	0	.0	0	0	0	0	0	9	0	1	q	0	1	0	
Sweinson's Result		0	0		0	0	a	0	0	q ·	0	0	d	0	0	1 1	
Vary	1 30	0	1	o	0	0	d	0	1	e .	0	0	d	0	2	0 ;	
WittingWitto		0	0	5	0	0	2	1	1	2	0	0	4	1.	1	11 1	
Yellow Wintser		3	1	3	0	3	0	0	1	d ·	0	0	4	3	5	1	
Yellow bellied Bycatcher		0	0	3	0	0	0	0	0	d	0	0	d	0	0	1	
TORK.	1 2	6	46	62	12	10	34	30	17	9		D.	TI.	Ø	129 1	CB 29	



Fall Report 2010

by

Lisa Priestley

November 2010

Abstract

Songbird migration monitoring was conducted from August 1 through October 10, 2010. There were 880 birds captured (27.6 birds/100 net hours). Northern Saw-whet Owl nets were set from September 10 through November 17 on 57 days. We caught 304 Saw-whet Owls (capture rate of 28.5 owls/100 net hours) and four Long-cared Owls. Our satellite Saw-whet Owl stations had 71 owls (Pletz Park) and 105 owls (Gehlert's Grove). The Steaks and Saw-whets event was a huge success again with over 100 people coming out to the lab to observe Saw-whet Owl banding. There were also a variety of visitors observing the songbird and Saw-whet Owl banding through the fall.



Photo of Lisa and Todd Mahon holding a Saw-whet Owl (by Katie Calon).

All photos by Lisa Priestley unless otherwise noted.

Songbird Fall Migration Monitoring

Fall migration at Beaverhill Bird Observatory in 2010 was low compared to the previous 10 years. Although we had a slight increase in capture rate from 2009, only 880 birds were captured, a capture rate of 27.6 birds/100 net hours (Table 1, Figure 1). A total of 3189.5 net hours were run, 56.8% of the total 5616 net hours that were possible. Most netting time missed was due to poor weather (rain and wind) in September.

Table 1, 2010 fall songbird banding results from Beaverhill compared to previous ten years.

Year	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Birds Captured	2095	1734	1315	975	1256	1969	1079	892	875	880
Birds Banded	1758	1464	1093	818	1089	1525	952	723	718	708
Net Hours	3678.5	4173.75	3818.25	3228.5	2787.25	3476.0	3534.0	3399.5	3670.5	3189.5
Capture rate (birds/100N	56.9	41.2	34.4	30.2	45.1	56.6	30.5	26.2	23.8	27.6
Species Captured	56	62	57	60	59	63	52*	58*	51	60*

^{*} includes Builfol Grouse caught in not but not handed

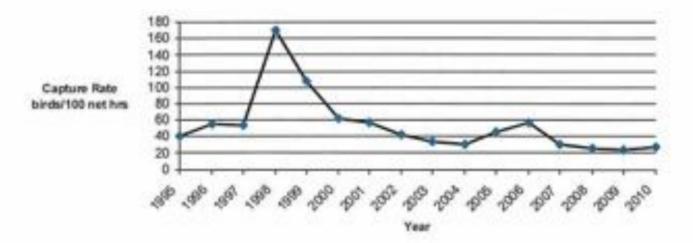


Figure 1. A comparison of fall capture rates (songbirds/100 net hours) between 1995 and 2010.

Top five species representing 54.9% of the captures were: Least Flycatcher (165), Myrtle Warbler (97), Black-capped Chickadee (96), American Tree Sparrow (75), and Clay-colored Sparrow (50). Unusual species that were captured this fall were a Black-throated Blue Warbler, a Nashville Warbler, Ruby-throated Hummingbirds, Sharp-shinned Hawk, and a Broad-winged Hawk.

The nets were set on a three other days later in October (outside the normal migration season) and four American Tree Sparrows, six Black-capped Chickadees, and one White-breasted Nuthatch were captured. Despite the long fall season, it appears most birds had migrated through earlier in the season.

Table 2. Birds caught in mist nets at Beaverhill Bird Observatory fall 2010.

Species	Banded	Recapture	Encounter	Other	Tota
Alder Flycatcher	6	0	0	0	6
American Goldfinch	5	0	0	0	5
American Redstart	35	0	0	3	38
American Robin	2	0	0	0	2
American Tree Sparrow	59	9	0	7	75
Black-and-White Warbler	2	0	0	0	2
Block-copped Chickodee	36	56	0	4	96
Blue-headed Vireo	1	0	0	0	1
Blue Jay	1	0	0	0	1
Blackpoll Warbler	12	0	0		12
Brown Creeper	1	0	0	0	1
Black-throated Blue Warbler	1	0	0	0	1
Black-throated Green Warbler	2	0	0	0	2
Broad-winged Hawk	1	0	0	0	1
Canada Warbler	1	0	0	0	1
Clay-colored Sparrow	36		0	6	50
Chipping Sparrow	1	0	0	0	1
Common Yellowthroat	1	0	0	0	1
Downy Woodpecker	2	2	0	0	4
Eastern Phoebe	2	0	0		2
Fox Sparrow	1	0	0	0	1
Golden-crowned Kinglet	2	0	0		2
Gray-cheeked Thrush	3	0	0	0	3
Hairy Woodpecker	1	2	0	0	3
Hermit Thrush	6	2	0	0	8
House Wren	24	9	0	2	35
Least Flycatcher	142	18	0	5	165
Lincoln's Sparrow	4	0	0	0	4
Magnolia Warbier	10	0	0	1	11
Mourning Warbler	1	0	0		1
Myrtle Worbier	92	0	0	5	97
Nashville Warbler	1	0	0	0	1
Northern Flicker	0	0	0	1	1
Northern Waterthrush	2	0	0	1	3
Orange-crowned Warbler	31	0		2	33
Ovenbird	14	0	0	0	14
Rose-breasted Grosbeak	3	0	0	1	4
Red-breasted Nuthatch		0	0	0	8
Ruby-crowned Kinglet	9	0	•	1	10
Ruby-throated Hummingbird	0	0	0	2	2
Red-eyed Vireo	1	0	0	0	1
Ruffed Grouse	0	0	0	2	2
Savannah Sparrow	1	0	0	0	1

Total	708	122	0	50	880
Yellow Warbler	29	4	0	1	34
Yellow-shafted Flicker	2	0	0	0	2
Yellow bellied Sapsucker	1	0	0	0	1
rellow-bellied Flycatcher	2	0	0	0	2
White-throated Sparrow	9	0	0	2	11
Western Palm Warbler	2	0	0	0	2
Wilson's Werbler	11	0	0	1	1.2
Western Tanager	1	0	0	0	1
White-crowned Sparrow	6	1	0	0	7
White-breasted Nuthatch	2	2	0	0	4
Warbling Vineo	10	1	0	0	11
Veery	1	0			1
Tennessee Warbler	29	2	0	2	33
Swainson's Thrush	12	a		0	12
Sharp-shinned Hawk	1	0	0	0	1
Song Sparrow	1	0	0	0	1
Sate-coloned Junco	26	6	0	1	33

¹ Repeat indicates it was captured with the last 90 days at the bird observatory

Saw-whet Owl Migration

Beaverhill Bird Observatory

Northern Saw-whet Owl fall migration monitoring began on September 10 and was completed on November 17. A total of 57 nights were covered amounting to 1067.00 net hours. We caught 304 Saw-whet owls (capture rate of 28.5 owls/100 net hours) (Table 3, Figure 2). We had 298 unbanded Saw-whets, four repeats (owls caught in the same season, and two foreign encounters. One foreign encounter was an owl banded last fall at Gehlert's Grove, and we have no information on the other banded bird. Four Long-eared Owls were also captured (Sept. 11, 23, 27, and Oct. 16), and two Short-eared Owls were observed on a few occasions flying around the lab.

Table 3. Number of Northern Saw-whet Owls captured at Beaverhill Lake 2002-2010 (Sept 9- Nov 14).

Year	Number of Nights	Number of Net Hours	Number of Owls Captured	Number of Owls/ 100 Net Hours	
2002	55	953.00	142	14.9	
2003	43	753,00	150	19.9	
2004	59	996.00	299	30.0	
2005	37	600.00	135	22.5	
2006	42	551.50	149	27.0	
2007	50	675.00	184	27.3	
2006	47	669.50	131	19.6	
2009	48	806,50	127	15.8	
2010	57	1067.00	304	28.5	

² Return indicated it was captured over 90 days before at the bird observatory

² Other Captores include escaped hirds, released without banding

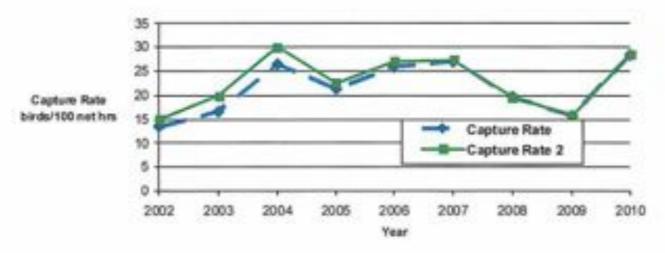


Figure 2. A comparison of capture rates (Saw-whets/100 net hours) between 2002 and 2010: capture rate (all captures), capture rate 2 (September 9 to November 14 only).

Other species of animals that were observed include the Northern Flying Squirrels and a large Porcupine that came to the lab each night in search of bird seed under the feeder. The only problems we had with the Porcupine was it trying to eat the bird feeder and the dogs got a little too close and had a few quills in their snouts as a warning.

Pletz Park

Hardy Pletz spent 17 nights (239 net hours) between September 22 and November 10 trapping for Saw-whets at his acreage Pletz Park, south of Millet, and caught 72 Saw-whet Owls (30.1 owls/100 net hour). Almost one third of the owls he captured were adults.

Gehlert's Grove

Bob Gehlert ran his second year of Saw-whet monitoring at Gehlert's Grove near Lindbrook (west of Tofield). Bob bunded on 37 nights between September 14 and November 8 for 510.5 net hours and caught 105 Saw-whet Owls (capture rate of 20.6 owls/100 net hours).

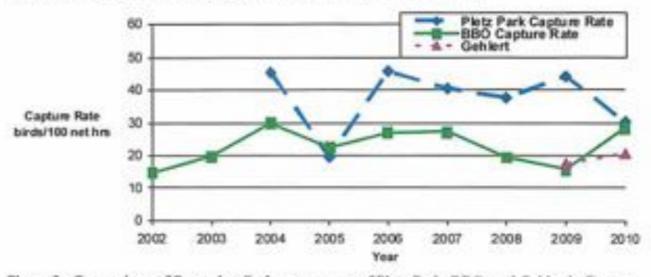


Figure 3. Comparison of Saw-whet Owl capture rates of Pletz Park, BBO, and Gehlert's Grove.

Interpretation

There were a number of visitors to the lab during songbird netting. Six groups came on different days for songbirds (including one group from Calgary, a bander from Romania, and another who had banded in United Kingdom, Iona Island Scotland, and Sweden, and two British people). We had a very young bander (Micah) wanna-be come with his mom Anna Daku (one of our staff from



a few years ago). Our Saw-whet Owlbanders also had no shortage of company throughout the season, and we had informal visitors on 21 of the nights!

On site organized tours were popular this fall. The Smoky Lake Junior Forest Wardens (8 adults and 14 kids) came out in mid-September for songbirds. Our local home schooling group (three adults and six kids) came out in late September for songbirds and Saw-whets. We had a group from the University of Alberta Chapter of the Wildlife Society come out for Saw-

whets on October 16 and the Wildrose Outdoor Club from Camrose also came out to view the Saw-whet banding.

We celebrated another successful Steaks and Saw-whets event. This year the event was held October 1 and 2, 2010. Over 50 people attending on each night of the event, and we had excellent weather and lots of Saw-whets. There were eight owls caught on Friday and nine owls on Saturday. Every person that attended the event saw at least one owl or more.



Natural Area Work

This fall, our goal was to improve access to the Natural Area and do some repairs on the bird observatory lab. We contracted Rick Hanneman to smooth the road across the field to the main parking lot. We plan to spend the winter looking for funding to gravel the road in the spring next year. Chuck Priestley also rented a mower and cleaned up the walking trails and parking lots. Al DeGroot coordinated with volunteers to replace the roof of the lab. After 23 years, the shingles and some of the studs needed to be replaced. We are also looking for donations and grants to redo the kitchen in the lab.

Publications and Presentations

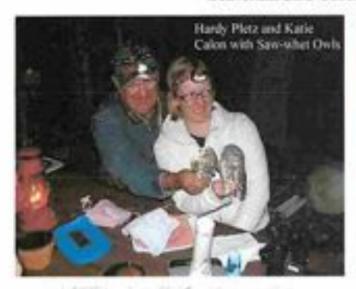
On August 10th Lisa presented a talk on owls for the Greenspace Program in Camrose. We set up a display for the Don't Hibernate event in Tofield. Lisa and Geoff attended the Raptor Research Conference in Fort Collins Colorado. Lisa presented a talk on the Phenology of Raptors in Alberta (based on nest cards) and a poster on updating the Nocturnal Owl Guidelines booklet. Geoff and Helen presented a poster on the Clarion Burrowing Owl. We also attended an event hosted by Nature Canada, and spoke about the program BBO is involved with and how the Charles Labatiuk Endowment Fund is helping our organization.

We are also pleased to announce that our joint paper on Saw-whet Owl Band Encounters has been accepted for publication in the Journal of Raptor Research (December issue). This paper discussed band encounters from Alberta and Saskatchewan stations and is authored by Lisa Priestley, Chuck Priestley, Doug Collister, Dan Zazelenchuk, and Matt Hanneman.

Acknowledgements

Funding and in-kind support from the following agencies is greatly appreciated: Alberta Conservation Association, Alberta Sustainable Resource Development, Environment Canada (Canadian Wildlife Service), MEC Environmental Fund (Access Grants), Nature Canada (Charles Labatiuk Endowment Fund), and Shell Environmental Fund. Our work here at Beaverhill Bird Observatory would not be possible without the wonderful staff and volunteers that spend time checking nets, banding birds, and keeping data. First we need to thank Katie Calon and Meaghan Bouchard for conducting the songbird migration monitoring in August. Katic continued the songbird monitoring in September and early October and then switched to Saw-whet Owls for the last half of October and beginning of November. Lisa Priestley conducted the Saw-whet Owl banding from mid-September through mid-October, and in early November. We really appreciate all the volunteers for their help!! Songbird banding volunteers were (# of days): Geoff Holroyd (3), Zoltan Domahidi (2), David Hodkinson (1), Ashley Thorsen (1), and Paul Reikie (1). Volunteers that helped with Saw-whet Owl monitoring include: Jim and Barb Beek (2), Gerry Beyersbergen (6), Meaghan Bouchard (3), Geoff Holroyd (7), Chuck Priestley (3), Paul Reikie (5), Bryn Spence (1), and Helen Trefry (2). Thanks to Steaks and Saw-whets volunteers: Gerry Beyersbergen, Meaghan Bouchard, Al DeGroot, Geoff Holroyd, Matt Hanneman, Chuck Priestley, James, Keegan, and Paxton Sheppard, Bryn and Juanita Spence, Margaret and Josef Takats. Barb Beck made her famous owl cupcakes, Bryn Spence made the T-shirts, and Helen Trefry provided some great babysitting services. Thanks to Katie Calon, our bander-in-charge for switching days. off to help with the weekend. We also thank Hardy Pletz and Bob Gehlert for volunteering their time to run Saw-whet owl monitoring at their acreages, and share the data with us.

Beaverhill Bird Observatory photos of fall 2010



Steaks and Saw-whets volunteer Keegan



Meaghan Bouchard with Swainson's Thrush





New lab roof





Poster presented at RRF conference (above) Wildrose Club from Camrose (left)