

# **Albert Creek Bird Banding & Migration Monitoring Station Final Report 2005**



*Prepared for:*

Community Development Fund, Southeast Yukon Proper Land Use Society, Canadian Parks & Wilderness Society (Yukon Chapter), Yukon Environment, Canadian Wildlife Service & Yukon Bird Club

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## **ABSTRACT**

The Albert Creek Bird Banding Station operated during both the spring and fall migration seasons during 2005. This year was the station's fifth consecutive year of operation and this was one of the most productive to date. The station operated for 41 days from April 27<sup>th</sup> to June 7<sup>th</sup>. Over this time period, 1871 birds of 50 species were banded and 144 species were observed. During the fall season, the station was operated for 59 days from July 24<sup>th</sup> to September 23<sup>rd</sup>. Over this time period, 2679 birds of 47 species were banded and 88 species were observed. The station continues to add to the knowledge of migratory birds in the southeast Yukon, primarily for those species found nowhere else in the territory. A number of these species are very rare in the Watson Lake region and the station has been successful in not only observing these species but also banding them. Species such as Cape May Warbler, Black and White Warbler and Blue Headed Vireo were banded during the 2005 season. Aside from gathering biological data, the station has also been successful in providing a unique educational opportunity for visitors of all ages. The station received a total of 777.25 volunteer hours by individuals assisting in the operation of the station. In addition, 77 visitor hours took place by individuals not assisting with the stations operation, but touring the area and learning about bird banding and bird migration in general.

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## 1.0 Introduction

The Albert Creek Bird Banding Station operated during both the spring and fall migrations in 2005. The station completed its fifth year of operation thanks to financial help from several government and non-government agencies including the Yukon Government's Community Development Fund, Environment Yukon, Canadian Wildlife Service, Environmental Awareness Fund, Canadian Parks and Wilderness Society (Yukon Chapter), Northern Research Institute, Lotteries Yukon and the Yukon Bird Club.

The goals of the Albert Creek Bird Banding Station were to:

- Continue to gather baseline information on birds and bird migration in the Liard basin area including specific studies such as feather collecting for stable isotope analysis, color banding, tick collection and molt scoring.
- Provide a setting for the public including school groups to learn about birds and bird migration.
- Provide employment and training opportunities for students and volunteers.
- Provide a unique tourist attraction in the community of Watson Lake.

The banding station serves as a method of carrying out research on birds which is shared through an international database. This is due to the possibility of a banded bird being recaptured across international borders. Many of the birds banded at Albert Creek are highly migratory spending the winter months as far south as Central and South America. The station also plays a role in education as a place where the public, volunteers and students can take part in a unique, community based research project.

## 2.0 Methods

Methods of data collection and mist netting were based upon those of the Canadian Migration Monitoring Network (CMMN).

### 2.1 Study Site

The bird banding station is located along Albert Creek in the Liard River Valley 15km west of the community of Watson Lake in the southeast region of the Yukon Territory. The majority of the site is composed of a regenerating forest with the marsh being the defining feature of the study site. The area is dominated by willow (*Salix* sp.), alder (*Alnus* sp.) and regenerating white birch (*Betula papyrifera*) with some mature white spruce (*Picea glauca*), trembling aspen (*Populus tremuloides*) and balsam poplar (*Populus balsamifera*) scattered throughout. The under story vegetation within the regenerating portion of the study site consists primarily of red clover (*Trifolium pratense*), fireweed (*Epilobium augustifolium*), yarrow (*Achillea millefolium*), red raspberry (*Rubus idaeus*), prickly rose (*Rosa acicularis*) as well as various grass species (*Poa* sp). Within the stands of mature white spruce, the under story is dominated by various bryophytes and cranberry (*Vaccinium vitis-idea*) with willow, alder and red osier dogwood (*Cornus stolonifera*) scattered throughout.

## 2.2 General Methods

The 2005 season at the Albert Creek was divided into the spring and fall seasons. The spring season began on April 27th, 2005 and finished on June 7th, 2005. The fall season began on July 20th, 2005 and finished on September 23rd, 2005. Mist nets and ground traps were used for capturing birds during the spring banding season and mist nets were used during the fall season. Ground traps used were 17.5cm by 17.5cm by 17.5cm in dimension. A total of 22 mist nets were used this year as this number has been set as the standard number to be used in future years of operation.

Mist nets were checked for birds every 15 - 30 minutes (depending on bird activity) and birds caught were placed in holding bags and returned to the banding lab. Birds were banded and the following data was collected if possible:

- Species
- band number
- age and criteria used
- sex and criteria used
- un-flattened wing chord
- weight
- fat score (5 point scale)
- status
- date
- time
- location banded
- bander's initials
- trap used
- net captured in
- molt information
- additional comments
- cap presence and length
- tail length, primary projection, bill size, tarsus (flycatchers only)

All age and sex determinations were made according to the Identification guide to North American Birds (Pyle 1997). For measuring the wing length a wing ruler was used with 0.5 mm denominations. Some anatomical measures such as tarsus, and cap length (see photo 2) were measured using DiaMax calipers.

Birds were processed as quickly as possible and were released if showing signs of stress. Mist nets were closed upon the onset of inclement weather or when too many birds were captured to allow timely processing. The overall number of net hours per day was variable during both the spring and fall seasons due to inconsistent weather conditions and the amount of manpower available to assist in banding. All birds captured that were previously banded were also processed and had limited information gathered to facilitate a faster release. During the fall banding season, all birds captured were checked for molting feathers and if found to be molting the bird's molt pattern was scored as methods outlined in (Ginn and Melville 1983<sup>1</sup>).

The weather conditions were recorded twice a day during every day of operation, once at the beginning of the day and once at the end of the day. Information collected at these times included temperature, wind direction and strength, cloud coverage, visibility and precipitation. For every day of the observatory's operation, an estimated daily total was calculated for every species encountered during each day. This calculation done using the following formula; Estimated Total (ET) = # banded + # recaptured + # observed/heard. Refer to Appendix 1 for the species accounts using the estimated totals of all bird species encountered during the 2005 season.

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<sup>1</sup> Ginn, H.B. and D.S. Melville. 1983. *Moult in Birds*. British Trust for Ornithology Guide Number Nineteen. England.

### 3.0 Results

During the spring season, the station was operated<sup>1</sup> for 41 days from April 27<sup>th</sup> to June 7<sup>th</sup>. Over this time period, 1871 birds of 50 species were banded (Table 2, Figure 1)) and 144 species were observed (Table 3). During the fall season, the station was operated for 59 days from July 24<sup>th</sup> to September 23<sup>rd</sup>. Over this time period, 2679 birds of 47 species were banded (Table 2, Figure 2) and 88 species were observed. The effort (net hours) and capture per unit effort (birds per net hour) for the 2005 season can be found below in Table 1 as well as Figure 3 and 4. For a detailed description of each species banded / observed, refer to Appendix 1.

Table 1. Net hours and capture per unit effort during the spring and fall of 2005.

Season	Birds Captured		Effort		Capture / 100 hours	
	Mist Nets	Ground Traps	Mist Nets	Ground Traps	Mist Nets	Ground Traps
Spring	1594	282	4962.25	423.5	32.12	66.59
Fall	2679	NA	6289.75	NA	42.59	NA
TOTAL	4273	282	11252	423.5	37.98	66.59

Table 2.. Birds banded during the spring and fall of 2005.

SPECIES	SPRING TOTAL	FALL TOTAL	TOTAL	SPECIES	SPRING TOTAL	FALL TOTAL	TOTAL
Alder Flycatcher	23	174	197	Northern Flicker	2	1	3
American Kestrel	1	0	1	Northern Waterthrush	50	157	207
American Redstart	9	54	63	Orange Crowned Warbler	105	122	227
American Robin	19	1	20	Pileated Woodpecker	1	2	3
American Tree Sparrow	175	150	325	Purple Finch	8	11	19
Black and White Warbler	0	1	1	Red Winged Blackbird	7	0	7
Black Capped Chickadee	2	13	15	Ruby Crowned Kinglet	18	200	218
Blackpoll Warbler	17	30	47	Rusty Blackbird	37	15	52
Blue Headed Vireo	0	4	4	Savannah Sparrow	31	7	38
Bohemian Waxwing	6	0	6	Sharp-shinned Hawk	1	2	3
Boreal Chickadee	1	8	9	Solitary Sandpiper	3	0	3
Cape May Warbler	0	2	2	Song Sparrow	0	1	1
Chipping Sparrow	12	2	14	Swainson's Thrush	19	133	152
Common Redpoll	2	0	2	Swamp Sparrow	1	33	34
Common Yellowthroat	19	199	218	Tennessee Warbler	51	30	81
Dark Eyed Junco	42	585	627	Townsend's Warbler	0	3	3
Dusky Flycatcher	1	0	1	Varied Thrush	2	2	4
Fox Sparrow	143	25	168	Warbling Vireo	10	34	44
Golden Crowned Kinglet	0	3	3	Western Tanager	1	3	4
Golden Crowned Sparrow	4	0	4	White Crowned Sparrow	269	13	282
Gray Cheeked Thrush	2	8	10	White Throated Sparrow	14	27	41
Gray Jay	1	2	3	White Winged Crossbill	0	7	7
Hammond's Flycatcher	12	14	26	Wilson's Snipe	2	0	2
Hairy Woodpecker	1	0	1	Wilson's Warbler	552	106	658
Hermit Thrush	4	2	6	Yellow Bellied Flycatcher	1	2	3
Least Flycatcher	2	16	18	Yellow Bellied Sapsucker	9	14	23
Lincoln's Sparrow	51	108	159	Yellow Warbler	33	149	182
Magnolia Warbler	4	19	23	<b>TOTAL BIRDS BANDED</b>	1871	2679	4550
Myrtle Warbler	91	185	276	<b>TOTAL SPECIES BANDED</b>	50	47	56

<sup>1</sup> Days of operation are defined as days were mist netting was conducted. In addition to these days, observations were taken on days where the weather did not allowing mist netting.

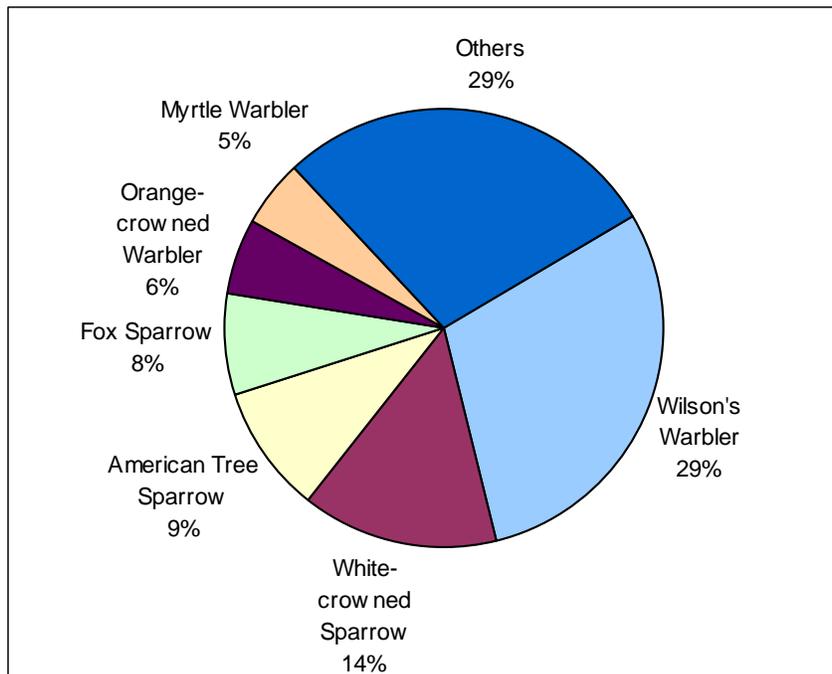


Figure 1. Composition of species banded during the spring season of 2005.

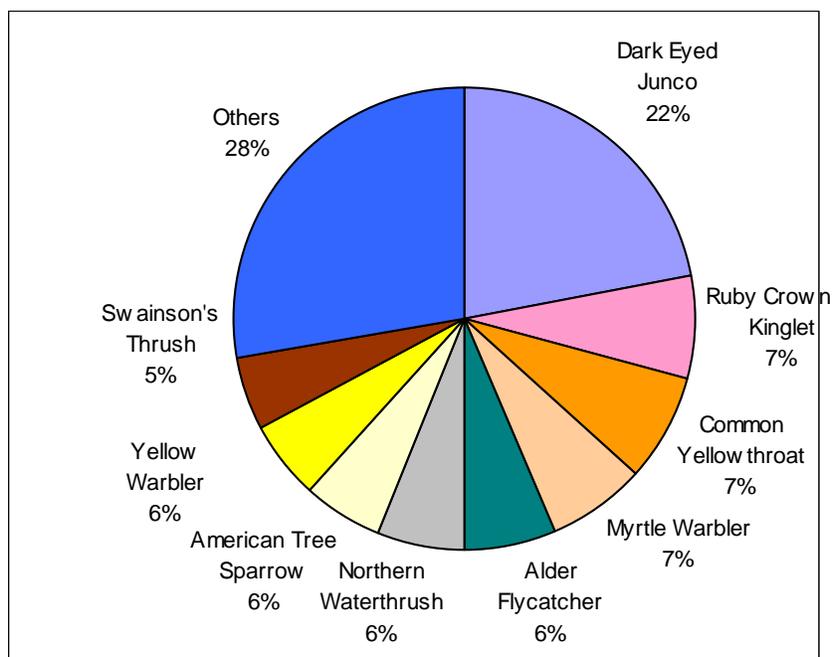


Figure 2. Composition of species banded during the fall season of 2005.

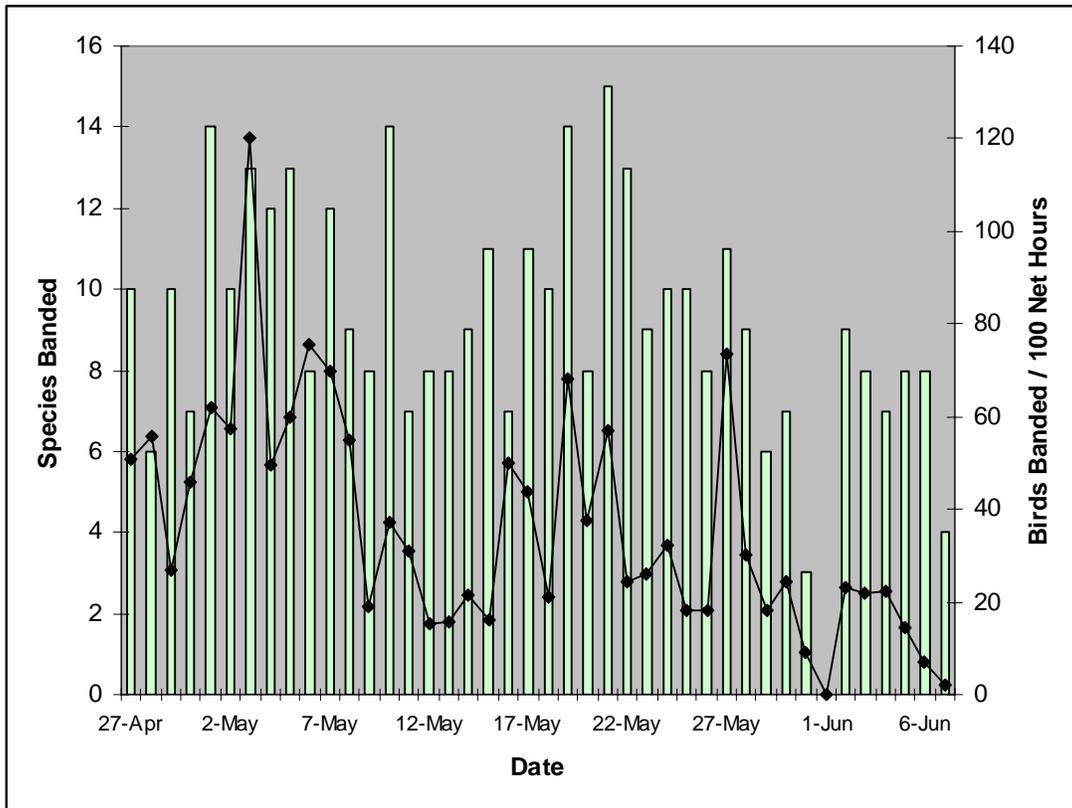


Figure 3. Summary of species banded and birds / 100 net hours during the spring of 2005.

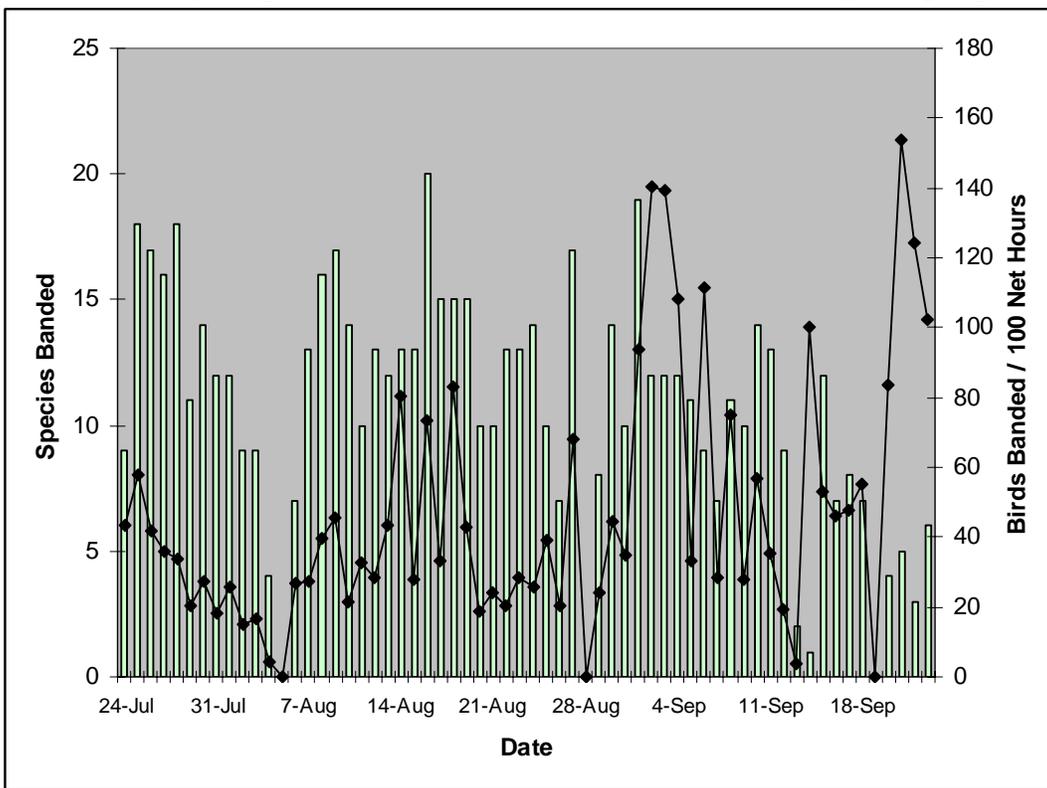


Figure 3. Summary of species banded and birds / 100 net hours during the fall of 2005

Table 3. Observations of birds during the spring and fall seasons of 2005.

Species	Days Recorded		Bird Days		Species	Days Recorded		Bird Days		Species	Days Recorded		Bird Days			
	Spring	Fall	Spring	Fall		Spring	Fall	Spring	Fall		Spring	Fall	Spring	Fall	Spring	Fall
Red Throated Loon	2	2	3	3	Pectoral Sandpiper	1	0	55	0	Varied Thrush	27	12	32	17		
Common Loon	21	35	27	36	Long-billed Dowitcher	2	0	2	0	American Pipit	8	3	9	3		
Horned Grebe	1	0	2	0	Wilson's Snipe	35	19	55	23	Bohemian Waxwing	31	12	123	41		
Greater White Fronted Goose	2	3	100	75	Bonaparte's Gull	1	0	4	0	Tennessee Warbler	15	18	184	61		
Canada Goose	38	15	135	190	Mew Gull	11	0	24	0	Orange Crowned Warbler	25	30	184	151		
Trumpeter Swan	12	8	35	16	Herring Gull	20	4	49	4	Yellow Warbler	18	31	55	194		
Tundra Swan	4	0	112	0	Common Nighthawk	2	0	2	0	Magnolia Warbler	8	17	17	25		
American Wigeon	18	12	85	32	Rufous Hummingbird	1	0	1	0	Cape May Warbler	4	2	5	2		
Mallard	40	48	241	515	Northern Hawk Owl	0	1	0	1	Myrtle Warbler	32	44	199	355		
Blue Winged Teal	6	2	15	1	Belted Kingfisher	36	35	66	44	Bay Breasted Warbler	1	0	1	0		
Northern Shoveler	11	0	35	0	Yellow Bellied Sapsucker	41	14	94	24	Townsend's Warbler	0	1	0	3		
Northern Pintail	9	2	32	7	Hairy Woodpecker	16	10	17	10	Blackpoll Warbler	12	15	30	33		
Green Winged Teal	24	4	62	12	Three-toed Woodpecker	1	16	1	17	Black & White Warbler	1	1	1	1		
Ring-necked Duck	12	2	44	5	Black Backed Woodpecker	2	5	2	5	American Redstart	8	36	29	116		
Lesser Scaup	1	0	2	0	Northern Flicker	38	19	60	19	Northern Waterthrush	27	43	121	247		
Unidentified Scaup	5	0	15	0	Pileated Woodpecker	7	22	11	28	Common Yellowthroat	24	54	85	497		
Long-tailed Duck	1	0	3	0	Olive Sided Flycatcher	2	2	2	2	Wilson's Warbler	35	33	811	141		
Bufflehead	21	0	55	0	Western Wood Pewee	2	0	2	0	Western Tanager	22	14	35	17		
Common Goldeneye	21	0	55	0	Yellow Bellied Flycatcher	1	3	1	4	American Tree Sparrow	16	23	459	264		
Barrow's Goldeneye	1	0	1	0	Alder Flycatcher	9	43	46	259	Chipping Sparrow	9	2	30	2		
Unidentified Goldeneye	11	0	19	0	Least Flycatcher	5	12	11	23	Savannah Sparrow	21	6	50	7		
Common Merganser	5	0	8	0	Hammond's Flycatcher	21	9	36	19	Fox Sparrow	40	20	341	51		
Red-breasted Merganser	1	0	2	0	Dusky Flycatcher	1	0	1	0	Lincoln's Sparrow	37	52	138	203		
Osprey	1	1	1	1	Say's Phoebe	1	0	1	0	Swamp Sparrow	1	28	1	71		
Bald Eagle	12	6	13	5	Blue Headed Vireo	2	35	2	5	Song Sparrow	0	1	0	1		
Northern Harrier	8	16	9	17	Warbling Vireo	24	35	77	112	White Throated Sparrow	21	47	90	89		
Sharp-shinned Hawk	5	13	6	15	Gray Jay	32	37	43	54	White Crowned Sparrow	22	17	533	33		
Red Tailed Hawk	0	1	0	1	Common Raven	40	52	129	166	Golden Crowned Sparrow	5	0	10	0		
Northern Goshawk	1	0	1	0	American Crow	1	0	2	0	Dark Eyed Junco	39	42	178	973		
American Kestrel	19	11	25	15	Tree Swallow	31	4	126	4	Lapland Longspur	15	16	119	34		
Ruffed Grouse	13	21	18	70	Cliff Swallow	3	8	12	15	Rose Breasted Grosbeak	2	0	2	14		
Spruce Grouse	5	16	7	37	Black Capped Chickadee	18	50	29	165	Red Winged Blackbird	37	5	79	14		
Sandhill Crane	0	5	0	130	Boreal Chickadee	6	30	8	67	Rusty Blackbird	19	43	210	324		
American Coot	1	0	1	0	Red Breasted Nuthatch	4	14	4	17	Brown Headed Cowbird	8	1	8	1		
Semipalmated Plover	1	0	1	0	Ruby Crowned Kinglet	44	57	112	389	Purple Finch	39	16	83	32		
Yellowlegs spp.	1	0	1	0	Golden Crowned Kinglet	0	3	0	4	Red Crossbill	0	1	0	8		
Greater Yellowlegs	31	0	53	0	Gray Cheeked Thrush	2	7	2	10	White Winged Crossbill	4	56	18	475		
Lesser Yellowlegs	8	1	10	1	Swainson's Thrush	17	46	81	268	Common Redpoll	10	0	21	0		
Solitary Sandpiper	16	6	29	6	Hermit Thrush	19	3	20	3	Pine Siskin	9	14	13	23		
Spotted Sandpiper	1	0	1	0	American Robin	43	28	182	36	<b>TOTAL SPECIES OBS</b>	<b>114</b>	<b>88</b>	<b>6940</b>	<b>7510</b>		

### 3.1 Band Returns

During the previous five years since the station began operation, there have been no foreign<sup>1</sup> band recoveries. However; during this fall's operation, a banded bird was captured which was banded in the community of Watson Lake which is approximately 15 km to the east. This particular bird was a Gray Jay which is of particular interest due to the fact that this species is not migratory. The details of this recovery can be found in Table 4 (highlighted). Also included in this table are the band returns<sup>2</sup> gathered during the 2005 season.

Table 4. Banded birds recovered during the spring and fall of 2005.

Band #	Species	Recovered			Banded			Notes
		Date	Age	Sex	Date	Age	Sex	
225020427	ALFL	5-Jun-05	AHY	U	7-Jun-01	AHY	U	
229091361	ALFL	30-May-05	ASY	U	31-May-03	AHY	U	
85255786	AMRO	21-May-05	ASY	M	20-May-04	AHY	M	
85255791	AMRO	14-May-05	ASY	F	1-Jun-04	AHY	F	
199058949	COYE	31-May-05	ASY	M	24-May-02	AHY	M	
240022332	COYE	17-May-05	ASY	M	27-Aug-04	AHY	M	
168140099	FOSP	3-May-05	AHY	U	3-May-03	AHY	U	
168140106	FOSP	5-May-05	AHY	U	9-May-03	AHY	U	
138373303	GRAJ	20-May-05	ASY	M	23-Dec-03	AHY	U	banded in Watson Lake
166112138	LISP	29-May-05	AHY	F	28-May-03	AHY	U	
185192905	LISP	15-May-05	ASY	U	20-May-04	AHY	U	recaptured in fall season
185192952	LISP	20-May-05	AHY	M	27-Jul-04	AHY	M	
185192961	LISP	22-May-05	AHY	U	4-Aug-04	AHY	F	
225020423	LISP	19-May-05	AHY	U	5-Jun-01	AHY	M	
236022585	NOWA	21-May-05	AHY	M	26-May-04	ASY	M	
85255761	RUBL	1-May-05	AHY	F	3-Aug-03	AHY	F	
185192628	SCJU	27-Apr-05	AHY	M	6-May-04	AHY	U	
185192800	SCJU	7-May-05	AHY	M	20-May-04	AHY	U	
185192905	SCJU	13-May-05	AHY	U	20-May-04	AHY	U	
146161347	SWTH	4-Jun-05	ASY	M	29-May-03	AHY	U	recaptured in fall season
146161354	SWTH	31-May-05	ASY	U	3-Jun-03	AHY	U	
146161370	SWTH	22-May-05	ASY	U	7-Aug-03	HY	U	
176115686	SWTH	2-Jun-05	ASY	M	8-Jun-02	AHY	U	recaptured in fall season
179129251	SWTH	31-May-05	ASY	U	7-Jun-04	SY	U	
179129256	SWTH	28-May-05	AHY	U	10-Jun-04	AHY	U	
179129258	SWTH	6-Jun-05	AHY	M	11-Jun-04	ASY	M	
179129275	SWTH	6-Jun-05	AHY	M	26-Jul-04	HY	U	
226093418	TEWA	28-May-05	AHY	M	6-Jun-03	AHY	M	
233012529	TEWA	2-Jun-05	AHY	M	27-May-04	SY	M	
233012593	TEWA	23-May-05	ASY	M	4-Jun-04	AHY	M	
233012630	TEWA	5-Jun-05	AHY	F	9-Jun-04	AHY	F	

Table continued.....

<sup>1</sup> This term is given to a bird which was banded at a site other than Albert Creek.

<sup>2</sup> This term is given to a bird which was banded at Albert Creek and returned to the site in the year(s) following being initially banded.

Table XX continued.....

Band #	Species	Recovered			Banded			Notes
		Date	Age	Sex	Date	Age	Sex	
236022632	WAVI	31-May-05	AHY	U	28-May-04	SY	U	
236022643	WAVI	27-May-05	AHY	U	29-May-04	AHY	U	
146161349	WTSP	17-May-05	ASY	U	31-May-03	AHY	M	
146161393	WTSP	17-May-05	ASY	U	13-Aug-03	AHY	U	
179129254	WTSP	31-May-05	AHY	U	9-Jun-04	AHY	F	
179129298	WTSP	27-May-05	AHY	M	6-Aug-04	AHY	U	
187163813	WTSP	20-May-05	AHY	U	13-Aug-04	HY	U	
225020480	BCCH	15-Sep-05	AHY	U	27-Aug-01	AHY	U	
240022812	BCCH	8-Sep-05	AHY	U	12-Sep-04	U	U	
240070039	BCCH	3-Sep-05	AHY	U	5-May-05	AHY	F	
229043718	COYE	29-Jul-05	AHY	F	24-Aug-02	HY	U	
236022810	COYE	15-Sep-05	AHY	F	14-Aug-04	AHY	U	
240022101	COYE	23-Aug-05	AHY	U	18-Aug-04	AHY	M	
179129021	SWTH	27-Aug-05	AHY	U	19-Aug-03	HY	U	
196196142	WTSP	7-Sep-05	AHY	U	4-Jun-05	AHY	M	

### 3.2 Additional Studies

Molt scores were obtained from all birds exhibiting molt (during the fall season). A total of 142 molt scores from 18 species were completed. A number of birds were molt scored once or twice, however; a small number were scored numerous times over an extended timeframe. Table 6 (on the following page) illustrates five examples of birds which were molt scored throughout the molting period. Albert Creek also participated (Pam Sinclair, CWS) in a project in which Rusty Blackbirds were color banded in order to learn more about the sensitive boreal species. In addition, bird ticks were opportunistically collected (4 birds in 2005) in conjunction with an individual studying these interesting ectoparasites.

### 3.3 Visitors and Volunteers

Table 5 shows the number of hours spent at the banding station by visitors, volunteers and paid workers. Visitors were defined as those people which visited the station (often for a short time) and did not take part in activities at the station. Volunteers were those people which took part in the operation of the station (often extensively) without being financially compensated. Paid hours were spent by individuals being paid to be at the station. This category includes the Master Bander (Ted Murphy-Kelly, paid assistants (Michelle Christensen, Harlan Schilling, Wayne Shepherd and Riley Brodhagen) as well as representatives from Yukon Environment (Cameron Eckert, Todd Powell, Jan Adamczewski, Val Loewen, Kyle Russel, Kierin O'Donovan, Marina Milligan, Y2C2 crews) and Canadian Wildlife Service (Wendy Nixon).

Table 5. Hours spent at the banding station visitors, volunteers and paid workers<sup>1</sup>.

	Visitor Hours	Volunteer Hours	Paid Hours
Spring	56.5	655.75	480.5
Fall	20.5	121.5	1027.5
TOTAL	77	777.25	1508

<sup>1</sup> Paid hours include only those hours spent at the banding station and do not include the very extensive amount of time spent doing office duties such as data entry, analysis and reporting.

Table 6. Selected molt scores of birds obtained during the fall season of 2005

Band #	Species	Age	Sex	Date	Primaries										Secondaries						Terts	Covs	Tail	Body	Comments
					1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6					
196196176	SWTH	AHY	F	27-Jul	4	4	4	4	3	1	0	0	0	.	0	0	0	0	0	0		Y	2	Y	
196196176	SWTH	AHY	F	29-Jul	4	4	4	3	2	1	0	0	0	.	4	0	0	0	0	0			3	Y	
196196176	SWTH	AHY	F	31-Jul	4	4	4	4	3	2	0	0	0	.	1	0	0	0	0	0	2		3	Y	
196196176	SWTH	AHY	F	1-Aug	4	4	4	4	3	2	0	0	0	.	1	0	0	0	0	0	2		3	Y	
196196176	SWTH	AHY	F	3-Aug	4	4	4	4	3	3	2	0	0	.	1	2	0	0	0	3	3		3	Y	
196196176	SWTH	AHY	U	21-Aug	5	5	5	5	5	5	4	3	3	.	4	4	3	3	3	0	3,4		4	Y	
196196176	SWTH	AHY	U	27-Aug	5	5	5	5	5	5	5	3	3	.	4	4	4	3	3	4			5	Y	
240025449	COYE	AHY	M	24-Jul	2	1	0	0	0	0	0	0	0	.	0	0	0	0	0	0			0	0	.
240025449	COYE	AHY	M	29-Jul	3	2	0	0	0	0	0	0	0	.	0	0	0	0	0	0			0	0	.
240025449	COYE	AHY	U	11-Aug	4	4	3	3	1	0	0	0	0	.	0	1	0	0	0	0	3		0,2	Y	
240025449	COYE	AHY	M	19-Aug	4	4	4	4	3	2	1	0	0	.	3	1	0	0	0	0	3,4		1,2,3	Y	
240025449	COYE	AHY	M	3-Sep	5	5	4	4	4	4	3	3	3	.	4	4	3	3	2	1	3,4		4,5	Y	
240025449	COYE	AHY	M	5-Sep	5	5	5	5	5	5	4	3	3	.	4	4	3	3	3	1	4		5	Y	
240025449	COYE	AHY	M	7-Sep	5	5	5	5	5	5	4	3	3	.	4	4	4	3	3	1	4		5	Y	
240025472	NOWA	AHY	U	25-Jul	4	4	4	4	4	3	1	1	0	.	3	0	0	0	0	0	3		3	y	.
240025472	NOWA	AHY	U	27-Jul	4	4	4	4	4	3	2	2	1	.	3	0	0	0	0	0	4		3	y	.
240025472	NOWA	AHY	U	31-Jul	5	5	5	5	4	4	3	2	2	.	1	3	0	0	0	0	4		3	Y	
240025472	NOWA	AHY	U	10-Aug	5	5	5	5	5	5	4	3	3	.	5	4	3	3	3	2			4	Y	
240025472	NOWA	AHY	U	15-Aug	5	5	5	5	5	5	5	5	3	.	5	5	5	5	5	5			5	N	
240025472	NOWA	AHY	U	16-Aug	5	5	5	5	5	5	5	5	5	.	5	5	5	5	5	5			5	Y	P9 on left wing = 3
241036417	AMRE	AHY	F	24-Jul	0	0	2	0	0	0	0	0	0	.	0	0	0	0	0	0			0	0	left wing moult only
241036417	AMRE	AHY	F	8-Aug	3	3	2	1	0	0	0	0	0	.	0	0	0	0	0	0	1,2,3		2,3	Y	
241036417	AMRE	AHY	F	14-Aug	3	3	3	3	1	0	0	0	0	.	0	0	0	0	0	0			2,3	Y	
241036417	AMRE	AHY	F	21-Aug	4	4	4	3	2	1	0	0	0	.	2	0	0	0	0	0	3		1,2,3	Y	
241036417	AMRE	AHY	F	10-Sep	5	5	5	5	5	4	3	3	2	.	4	3	3	1	1	0	3,4		4,5	Y	
241036421	AMRE	AHY	F	25-Jul	3	3	2	1	0	0	0	0	0	.	0	0	0	0	0	0		y	0	y	.
241036421	AMRE	AHY	F	1-Aug	3	3	3	3	1	0	0	0	0	.	0	0	0	0	0	0			2,3	Y	
241036421	AMRE	AHY	U	12-Aug	4	4	4	4	3	2	1	0	0	.	2	0	0	0	0	0	4		3,4	Y	
241036421	AMRE	AHY	F	29-Aug	5	5	5	4	4	4	3	3	2	.	4	3	2	0	0	0	3		5	Y	
241036421	AMRE	AHY	U	4-Sep	5	5	5	5	5	5	4	3	3	.	5	5	3	3	2	1	4,5		3	Y	

## 4.0 Discussion

Albert Creek continues to illustrate the rich variety of bird species in the southeast region of the Yukon. Some species, particularly neotropical migrants are at the northwest or northern extent of their continental range. Since the inception of this project a number of species have been banded or observed at the site which were firsts for the Watson Lake area or were considered rare. The bird banding and migration monitoring at Albert Creek provides us with much needed data on avifauna of the region. The species can be divided into families of birds. Each family of birds captured will be discussed briefly in the following section. A much more detailed account of each individual species can be found in Appendix 1.

### 4.1 Waterbirds

For the sake of simplification, the waterbirds category includes loons, grebes, ducks, geese and swans. A total of 23 species within this category were observed during 2005. Some species such as Common Loon, Canada Goose and Mallard are very common and are typically observed on every day of operation. The most notable aspect of waterbird observations during 2005 was the diminished number of species observed during the fall season. For a detailed account of species observed, refer to Appendix 1.

### 4.2 Hawks, Eagles and Falcons

Two species of hawks were banded and one was netted. These were American Kestrel (1 banded), Sharp-shinned Hawk (3 banded) and Northern Harrier (netted and released). All three species are common and are known or believed to nest in the area. Both the Kestrel and Sharp-shinned Hawk are birds of prey which feed primarily on songbirds.



**Photo 1.** Male American Kestrel (left) and Sharp Shinned Hawk banded during the spring 2005 season.

In addition to these species, 4 other species were observed. A single osprey was observed in both the spring and fall seasons, these observations accounted for the second and third observations of this species at the study site. Bald Eagles are a common observation at Albert Creek during both the spring and fall as they are likely nesting in the area. A Northern Goshawk was observed during the spring season as this species has been observed irregularly in past years. A Red Tailed Hawk was observed during the fall season, this species has been observed irregularly at the study site in past years.

It should be noted that the observations of raptors at Albert Creek are lacking for two reasons. Firstly, major movements of raptors occur primarily outside of regular operation at Albert Creek. Secondly, these species may be easily over looked while opportunistically observing other species such as the warblers, sparrows, etc which are the primary focus of the banding station.

### 4.3 Shorebirds

Two species of shorebird were banded, Solitary Sandpiper (3) and Wilson's snipe (2). Both species are common throughout the Yukon and are believed to breed in the area. The Solitary Sandpiper is a new addition to the list of species banded at Albert Creek. There was a much higher number of all shorebirds at the study site, primarily in the spring due to the extremely high water levels during that time. Aside from Wilson's snipe and Solitary Sandpipers, both species of Yellowlegs (Greater and Lesser) were observed regularly at Albert Creek. Other species such as Semipalmated Plover, Spotted Sandpiper, Pectoral Sandpiper and Long Billed Dowitcher were observed during the spring season. Although they are not shorebirds, Sandhill Cranes were noted in relatively high numbers during the fall season.



**Photo 2.** One of three Solitary Sandpipers banded during the spring 2005 season.

#### **4.4 Gulls and Terns**

Three species of gulls are observed regularly at Albert Creek, these are Herring, Mew and Bonaparte's Gulls. These species are most often observed flying over the marsh, most likely during migration. The Herring Gull is most common of the gull species, followed by Mew Gull and lastly, Bonaparte's Gull.

#### **4.5 Owls**

Owls are observed very rarely at Albert Creek and the only species of owl observed during 2005 was a Northern Hawk Owl. Two other species, Great Horned and Short Eared Owls have also been observed at Albert Creek. Additional projects at Albert Creek include the possibility of nocturnal owl banding. This would follow the protocols used by more southerly banding stations for banding Northern Saw-whet Owls. This method of migration monitoring would primarily target Boreal Owls; however, other species of owls could possibly be banded. In order to carry out this type of monitoring, amendments would have to be made to the banding permits held by the staff at Albert Creek.

#### **4.6 Kingfishers**

The Belted Kingfisher (the only species present in the Yukon) is observed very frequently at Albert Creek during both the spring and fall seasons. This species most likely breeds at the study site; however, no birds of this species have been banded at Albert Creek.

#### **4.7 Nighthawks**

The Common Nighthawk (the only species present in the Yukon) was observed for the first time at Albert Creek during the spring of 2005. One individual was seen and heard foraging for insects over the marsh during the first few days of June. This species breeds primarily in lodgepole pine forests and may have been breeding in nearby forests of this type.

#### **4.8 Hummingbirds**

One species of Hummingbird was netted at the site. The Rufous Hummingbird is rare in the Yukon although there are yearly reports of them usually in southern Yukon. Unfortunately we are not permitted to band Hummingbirds and so this bird was photographed and released.



**Photo 3.** A Rufous Hummingbird captured (but not banded) on May 26<sup>th</sup>, 2005.

#### **4.9 Woodpeckers**

The following three species of woodpecker were banded: Yellow-bellied Sapsucker, Northern Flicker, Hairy Woodpecker and Pileated Woodpecker. In southern Yukon Yellow-bellied Sapsucker and Northern Flicker are migratory while Pileated Woodpeckers are believed to be year round residents although some southerly movement may occur since this species is at the northern extent of it's range. After observing Pileated Woodpeckers at the site for the past four years we finally captured not one but three individuals. Due to their large size (about the size of a crow) these birds can easily flap themselves out of a mist net. Other species of Woodpecker banded or encountered at the site in previous years include Three-toed Woodpecker, Black-backed Woodpecker, Hairy Woodpecker and Downy Woodpecker all of which are year round residents.



**Photo 4.** Both this Pileated Woodpecker and Hairy Woodpecker were exciting captures at Albert Creek.

#### 4.10 Flycatchers

The following five species of flycatcher were banded during 2005:

- Alder Flycatcher
- Dusky Flycatcher
- Least Flycatcher
- Yellow-bellied Flycatcher
- Hammonds Flycatcher

All five of these species are highly migratory, spending the winter months from central Mexico to northern South America. The Alder Flycatcher is the most common flycatcher in the Yukon being found throughout the territory. The remaining flycatchers are uncommon or rare in southern to central Yukon. In past years we have also banded or observed Olive-sided Flycatcher, Western Wood Peewee and Say's Phoebe.

#### 4.11 Vireos

Four species of Vireo have been banded at the site in the past 5 years. These are:

- Warbling Vireo
- Blue headed Vireo
- Red eyed Vireo
- Philadelphia Vireo

Warbling Vireo is common throughout the Yukon. The three other species are restricted to the extreme southeast region. Warbling and Blue headed Vireo were the only members of the group banded this year. We suspect that both these species breed in the area as hatch year birds have been banded in late July.



**Photo 5.** Hatch year Blue Headed Vireo banded early during the fall season suggests local breeding is taking place. The more common Warbling Vireo is observed and captured more frequently at Albert Creek.

#### **4.12 Crows and Jays**

One species of Jay has consistently been banded at Albert Creek. The Gray Jay is a non migratory bird found throughout the boreal region of Canada. Due to the fact that this species is a year round resident in the Yukon, individuals are recaptured often despite the low number of individuals banded. This year, an individual was recaptured which was not banded at Albert Creek. This particular bird was banded by Ted Murphy-Kelly in the community of Watson Lake (approximately 15 km east of Albert Creek) during the winter of 2003 while conducting feeder banding. The Common Raven is also a daily visitor to the study site where it is often observed and heard. A truly interesting observation of a pair of American Crows during the spring of 2005 was a very notable event and was the first time this species was observed at Albert Creek.

#### **4.13 Swallows**

The Tree Swallow is the most common species of swallow observed at Albert Creek, where it is observed in low number primarily during the spring season. Cliff Swallows were also observed during the 2005 seasons in low numbers. Both Violet-green and Barn Swallows have also been observed at Albert Creek during past years.

#### **4.14 Chickadees and Nuthatches**

Two species of Chickadee have been banded throughout the years and this year was no exception. The Black-capped and the Boreal Chickadee are local breeders in the area and are non migratory. The Black-capped Chickadee has become a species of particular interest at the banding station due to its relationship with many species of neotropical warblers, vireos and kinglets. During fall migration there is a noticeable correlation with high capture rates of other birds when a group of chickadees moves through the area. A mobbing effect seems to occur although further study is required to quantify and qualify this behavior. Red Breasted Nuthatches were observed in low numbers during the spring and moderate numbers during the fall. Over the past three years, low numbers of this species have been banded; however, the number of individuals has fluctuated from four to zero suggesting that this species fluctuates from year to year.

#### **4.15 Kinglets**

Two species of Kinglet were banded at Albert Creek in 2005. The Ruby-crowned Kinglet is a common bird from coast to coast in the boreal region of Canada as is reflected by its commonality at Albert Creek. During the fall of 2005, record numbers of this species were banded and observed. The Golden-crowned Kinglet has been reported in southern Yukon in past years. In fall 2005 a single male was banded at the Teslin Lake banding station. A week later three individuals were banded within a ten day period at Albert Creek. This information combined with reports from Whitehorse accounts suggests a possible northern irruption of this species within this breeding season.



**Photo 5.** The female Golden Crowned Kinglet banded on September 1<sup>st</sup>, was a first for Albert Creek.

#### **4.16 Thrush**

The following 5 species of thrush were banded: American Robin, Hermit Thrush, Gray Cheeked Thrush, Swainson's Thrush and Varied Thrush. All of these species are migratory, some of which are neotropical migrants. The Swainson's and Gray Cheeked Thrush winter in central and south America whereas the American Robin, Varied Thrush and Hermit Thrush can be found from throughout most of the continental United States into Mexico during the winter months. The Varied Thrush is strictly a western species and is captured at Albert Creek in only low numbers. All other species banded at Albert Creek are found from coast to coast. Primarily insectivorous this guild of species will also feed on berries.

#### **4.17 Pipits**

The American Pipit is the one species within this family that has been banded once at the site. During spring migration flocks of this species encountered at Albert Creek are probably migrants moving on to the arctic or alpine regions of the Yukon.

#### **4.18 Waxwings**

There are two species that have been observed and banded at the station. The Bohemian Waxwing and Cedar Waxwing. Both species are not true migrants. They are best described as "nomadic eruptive" species occurring in large flocks when their primary food source of berries is in abundance. The Cedar Waxwing occurs less frequently as it is at the northern extent of it's range.

#### **4.19 Warblers**

Warblers are the largest group of birds encountered at Albert Creek. Thirteen species of Warblers were banded at the station this year.

- Tennessee Warbler
- Orange-crowned Warbler
- Yellow Warbler
- Magnolia Warbler
- Myrtle Warbler
- Townsend's Warbler
- Blackpoll Warbler
- American Redstart
- Northern Waterthrush
- Common Yellowthroat
- Wilson's Warbler
- Cape May Warbler
- Black and White Warbler

In past years single individuals of the following were also banded.

- MacGillivray's Warbler
- Bay-breasted Warbler

All species of Warbler are migratory many of them are neotropical migrants. Some such as the Blackpoll winter as far south as Columbia and Brazil. This species averaging about 14 grams in weight often make incredible trans-oceanic flights to reach their destinations. Species such as the Tennessee, Cape May Warbler and Bay Breasted Warbler fluctuate in numbers in response to insect outbreaks such as Spruce Budworm. Numbers of these three species were recorded in high numbers this year at Albert Creek, primarily the Tennessee Warbler. Two Cape May Warblers were also banded for the first time.



**Photo 6.** Both Cape May (left) and Tennessee (right) Warblers were recorded at Albert Creek in record numbers this year.

Almost half of the warbler species at Albert Creek are at the northwestern extent of their range. The Black and White, Bay-breasted and Cape May are very rare in the Liard Basin and before this project

began were thought to only occur in the Beaver and La Biche watersheds. The MacGillivray's and the Townsend's Warbler are at the eastern extent of their range. Species such as the Blackpoll have been showing an annual continental decline for the past 40 years according to Breeding Bird Survey data. From a conservation perspective, the warblers represent a very important guild of species.

#### 4.20 Tanagers

The Western Tanager is the only species of Tanager that occurs at Albert Creek. It is at the northern extent of its range. Due to its low numbers in southern Yukon and its tendency to forage high in the canopy it is seldomly banded.

#### 4.21 Sparrows

Sparrows are the second largest group of bird species banded at Albert Creek. In 2005 they included:

- American Tree Sparrow
- Chipping Sparrow
- Savannah Sparrow
- Fox Sparrow
- Swamp Sparrow
- White-throated Sparrow
- White-crowned Sparrow
- Golden-crowned Sparrow
- Slate-colored Junco
- Song Sparrow

In addition to these species, Lapland Longspurs were also observed; however, this species is seldomly banded at Albert Creek. All species of sparrow banded at Albert Creek are migratory but for the most part are not long distant migrants. They are the first guild of species to appear in the spring and the last to leave during fall migration. Ground traps are especially effective at capturing sparrows as they are predominantly granivorous foraging mostly on the ground. The Swamp Sparrow and White-throated Sparrow are at the northwestern extent of their range at Albert Creek while the Golden-crowned Sparrow is at the eastern extent of its range. The spring of 2005 saw an unprecedented number of Fox Sparrow banded almost five times the previous high for one season. The single Song Sparrow banded in the fall season was an unlikely western, coastal subspecies.



Photo 7. A rare Song Sparrow was banded during the fall 2005 season.

#### 4.22 Blackbirds

Two species of Blackbirds were banded at Albert Creek this year. They were The Rusty Blackbird and Red-winged Blackbird. The Rusty Blackbird has been listed a species of concern in North America due to it's steady decline. In an effort to gather more information on this species dark blue color bands were placed on individuals as well as the usual numbered aluminum band. A single flight feather was collected from each individual for stable isotope analysis.



**Photo 8.** A Rusty Blackbird (left) showing its unique dark blue color band, on the right, this male White-winged Crossbill was the first of its species banded at Albert Creek.

#### 4.23 Finches

Three species of finch were banded this year; Purple Finch, Common Redpoll and White-winged Crossbill. In past years Pine Siskin have also been banded. Like the waxwings this guild of species are considered nomadic, irruptive but unlike the waxwings they feed primarily on cones and catkins. Their numbers fluctuate year to year depending on the abundance of food in the area.

#### 5.0 Conclusion and Recommendations

The spring and fall banding seasons of 2005 marked another banner year for the Albert Creek banding station. Geographically, the southeast Yukon is a very bird rich region and Albert Creek illustrates this. The site is ideal for capturing birds in good numbers due to the wide variety of mixed successional vegetation surrounded by mature stands. The site will have to have some vegetation management carried out throughout the years in order to maintain an ideal canopy height. The marsh complex surrounding the site is the main influencing feature on the landscape. In the spring of 2005 high spring runoff caused most net lanes to flood extensively and running all nets became a challenge for just over a week. In the fall, beavers began to dam the culverts. If not dealt with this too will create flooding of net lanes.

The site continues to band a wide variety of species. Some species such as Wilson's Warbler and Orange-crowned Warbler are banded in large numbers providing a large sample size for extensive study of these species, perhaps even subspecies work. Many species of birds are at the north or north western extent of their range at Albert Creek. This makes the station unique in the territory where many species can be studied and monitored which are only found in the southeast. The station also continues to add species to the known list of birds occurring in the Watson Lake area.

Some of the stations protocols are different from those of more southerly stations in Canada. This is due to the unique variables which have to be considered when banding north of sixty. All the net lanes have been in the same location for three years now with the exception of two additional lanes which were added in the spring of 2005. It is important that these same net lanes are used every year without change. Total net effort must also be consistent as much as possible throughout the years.

In order for the station to operate efficiently at Albert Creek a fully trained team of banders must be employed or qualified volunteers must be recruited. During the busiest days of migration we recommend that the station have atleast four individuals who are all competent extractors and observers. Two of the four staff should be qualified banders. If this is achieved the station will likely reach it's full potential and more meaningful analyses of data can be achieved. Besides migration monitoring and banding this project has incorporated other work such as feather collection for stable isotope analyses, bird tick collection, molt scoring and color banding of species of concern. Further specialized studies that we can "piggy back" on the daily operation of the station will add to the relevance of the work conducted at Albert Creek. A building serving as a banding lab and bunkhouse would make the work at the station easier and increase our daily observation coverage. A long-term financial commitment by government and or non-government agencies would insure the future of migration monitoring and banding at Albert Creek. Finally, we look forward to continuing to work with the local community of Watson Lake, student programs and first nations. We are always open to the public and encourage families, tourists and school groups to take advantage of this unique place of learning.

## **6.0 Acknowledgements**

The authors would like to thank all of the volunteers who visited this year and helped out with day to day operations at the station. Your actions do not go unnoticed and without you, this station wouldn't have been as productive or such a fun place to work at. Also, the long list of funders to this project deserve a big thank you for continuing to support this project and allowing us to begin to strive towards maximizing the monitoring taking place. Karen Baltgailis at the Yukon Conservation Society also deserves a large thank you for assisting in our fund raising activities and ensuring that the finances of this project were kept in order. To Jukka Jantenen and Cameron Eckert, thank you very much for your assistance in the operation of the station as well as providing a wealth of bird knowledge. To Jan Adamczewski and Todd Powell, thank you for providing much logistical support and manpower throughout the year. Tor Forsberg of the Southeast Yukon Proper Land Use Society (PLUS) helped with the promotion of the station. The photographs included in this report were provided by Ben Schonewille, Ted Murphy-Kelly, Julie Bauer, Gwenn Baluss, Emily Drew, Jason Yengwine, Matt Brooks, Erika Andersson, Caroline Nystrom, Emil Modig and Johan Lundback. In closing, the authors would like to thank CBC Radio, 96.1 The Rush and the Whitehorse Star for assisting to advertising the station to the public.

**APPENDIX 1 – DETAILED SPECIES ACCOUNTS**

## About the Species Tables

The following species tables combine both banding and observation data from spring and fall seasons of operation at Albert Creek. Spring and fall data are separated by a (-) with spring data preceding fall data.

### *Loons & Grebes*

Species	Red Throated Loon	Latin Name	<i>Gavia stellata</i>		
		AOU Code	RTLO	AOU #	11.0
First Date Recorded	4 May – 28 Jul				
Last Date Recorded	18 May – 29 Jul				
Number Of Days Recorded	2 – 2				
Highest Estimated Total	2 on 18 May – 2 on 28 Jul				
Bird Days	3 - 3	Number Banded	0 - 0		

Species	Common Loon	Latin Name	<i>Gavia immer</i>		
		AOU Code	COLO	AOU #	7.0
First Date Recorded	3 May – 22 Aug				
Last Date Recorded	5 Jun – 12 Sep				
Number Of Days Recorded	21 – 35				
Highest Estimated Total	2 on 10 May – 2 on 9 Aug				
Bird Days	27 - 36	Number Banded	0 - 0		

Species	Horned Grebe	Latin Name	<i>Podiceps auratus</i>		
		AOU Code	HOGR	AOU #	3.0
First Date Recorded	10 May – NA				
Last Date Recorded	NA – NA				
Number Of Days Recorded	1 – NA				
Highest Estimated Total	2 on 10 May – NA				
Bird Days	2 - 0	Number Banded	0 - 0		

### *Ducks, Geese & Swans*

Species	Greater White Fronted Goose	Latin Name	<i>Anser albifrons</i>		
		AOU Code	GWFG	AOU #	171.0
First Date Recorded	3 May – 20 Aug				
Last Date Recorded	5 May – 22 Sep				
Number Of Days Recorded	2 – 3				
Highest Estimated Total	60 on 5 May – 50 on 2 Sep				
Bird Days	100 - 75	Number Banded	0 - 0		

Species	Canada Goose	Latin Name	<i>Branta canadensis</i>		
		AOU Code	CAGO	AOU #	172.0
First Date Recorded	25 Apr – 20 Aug				
Last Date Recorded	6 Jun – 5 Sep				
Number Of Days Recorded	38 – 15				
Highest Estimated Total	7 on 6 May – 100 on 30 Aug				
Bird Days	135 - 190	Number Banded	0 - 0		

Species	Trumpeter Swan	Latin Name	<i>Cygnus buccinator</i>		
		AOU Code	TRUS	AOU #	181.0
First Date Recorded	25 Apr – 19 Aug				
Last Date Recorded	25 May – 22 Sep				
Number Of Days Recorded	12 – 8				
Highest Estimated Total	5 on 25 Apr and 2 May – 3 on 31 Aug				
Bird Days	35 - 16	Number Banded	0 - 0		

Species	Tundra Swan	Latin Name	<i>Cygnus columbianus</i>		
		AOU Code	TUSW	AOU #	180.0
First Date Recorded	1 May – NA				
Last Date Recorded	4 May – NA				
Number Of Days Recorded	4 – NA				
Highest Estimated Total	49 on 1 May – NA				
Bird Days	112 - 0	Number Banded	0 - 0		

Species	American Wigeon	Latin Name	<i>Anas americana</i>		
		AOU Code	AMWI	AOU #	137.0
First Date Recorded	27 Apr – 25 Aug				
Last Date Recorded	3 Jun – 13 Sep				
Number Of Days Recorded	18 – 12				
Highest Estimated Total	25 on 3 May – 3 on 10 Sep				
Bird Days	85 - 32	Number Banded	0 - 0		

Species	Mallard	Latin Name	<i>Anas platyrhynchos</i>		
		AOU Code	MALL	AOU #	132.0
First Date Recorded	26 Apr – 25 Jul				
Last Date Recorded	6 Jun – 22 Sep				
Number Of Days Recorded	40 – 48				
Highest Estimated Total	22 on 26 Apr – 90 on 22 Sep				
Bird Days	241 - 515	Number Banded	0 - 0		

Species	Blue Winged Teal	Latin Name	<i>Anas discors</i>		
		AOU Code	BWTE	AOU #	140.0
First Date Recorded		6 May – 26 Aug			
Last Date Recorded		6 Jun – NA			
Number Of Days Recorded		6 – 1			
Highest Estimated Total		5 on 12 May – 1 on 26 Aug			
Bird Days		15 - 1	Number Banded		0 - 0

Species	Northern Shoveler	Latin Name	<i>Anas clypeata</i>		
		AOU Code	NSHO	AOU #	142.0
First Date Recorded		26 Apr – NA			
Last Date Recorded		21 May – NA			
Number Of Days Recorded		11 – NA			
Highest Estimated Total		8 on 20 May – NA			
Bird Days		35 - 0	Number Banded		0 - 0

Species	Northern Pintail	Latin Name	<i>Anas acuta</i>		
		AOU Code	NOPI	AOU #	143.0
First Date Recorded		8 May – 3 Aug			
Last Date Recorded		25 May – 20 Aug			
Number Of Days Recorded		9 – 2			
Highest Estimated Total		8 on 10 May and 11 May – 5 on 20 Aug			
Bird Days		32 - 7	Number Banded		0 - 0

Species	Green Winged Teal	Latin Name	<i>Anas crecca</i>		
		AOU Code	AGWT	AOU #	139.0
First Date Recorded		3 May – 9 Aug			
Last Date Recorded		5 Jun – 26 Aug			
Number Of Days Recorded		24 – 4			
Highest Estimated Total		6 on 6 May – 6 on 26 Aug			
Bird Days		62 - 12	Number Banded		0 - 0

Species	Ring Necked Duck	Latin Name	<i>Aythya collaris</i>		
		AOU Code	RNDU	AOU #	150.0
First Date Recorded		29 Apr – 30 Jul			
Last Date Recorded		6 Jun – 4 Aug			
Number Of Days Recorded		12 – 2			
Highest Estimated Total		8 on 29 Apr and 21 May – 4 on 30 Jul			
Bird Days		44 - 5	Number Banded		0 - 0

Species	Lesser Scaup	Latin Name	<i>Aythya affinis</i>		
		AOU Code	LESC	AOU #	149.0
First Date Recorded	15 May – NA				
Last Date Recorded	NA – NA				
Number Of Days Recorded	1 – NA				
Highest Estimated Total	2 on 15 May – NA				
Bird Days	2 - 0	Number Banded	0 - 0		

Species	Unidentified Scaup	Latin Name	<i>Aythya affinis / Aythya marila</i>		
		AOU Code	LESC / GRSC	AOU #	
First Date Recorded	30 Apr – NA				
Last Date Recorded	18 May – NA				
Number Of Days Recorded	5 – NA				
Highest Estimated Total	8 on 30 Apr – NA				
Bird Days	15 - 0	Number Banded	0 - 0		

Species	Long Tailed Duck	Latin Name	<i>Clangula hyemalis</i>		
		AOU Code	LTDU	AOU #	154.0
First Date Recorded	18 May – NA				
Last Date Recorded	NA – NA				
Number Of Days Recorded	1 – NA				
Highest Estimated Total	3 on 18 May – NA				
Bird Days	3 - 0	Number Banded	0 - 0		

Species	Bufflehead	Latin Name	<i>Bucephala albeola</i>		
		AOU Code	BUFF	AOU #	153.0
First Date Recorded	1 May – NA				
Last Date Recorded	6 Jun – NA				
Number Of Days Recorded	21 – NA				
Highest Estimated Total	11 on 1 May – NA				
Bird Days	55 - 0	Number Banded	0 - 0		

Species	Common Goldeneye	Latin Name	<i>Bucephala clangula</i>		
		AOU Code	COGO	AOU #	151.0
First Date Recorded	25 Apr – NA				
Last Date Recorded	5 Jun – NA				
Number Of Days Recorded	21 – NA				
Highest Estimated Total	10 on 19 May – NA				
Bird Days	55 - 0	Number Banded	0 - 0		

Species	Barrow's Goldeneye	Latin Name	<i>Bucephala islandica</i>		
		AOU Code	BAGO	AOU #	152.0
First Date Recorded	28 Apr – NA				
Last Date Recorded	NA – NA				
Number Of Days Recorded	1 – NA				
Highest Estimated Total	1 on 28 Apr – NA				
Bird Days	1 - 0		Number Banded	0 - 0	

Species	Unidentified Goldeneye	Latin Name	<i>Bucephala clangula / Bucephala islandica</i>		
		AOU Code	COGO / BAGO	AOU #	
First Date Recorded	27 Apr – NA				
Last Date Recorded	5 Jun – NA				
Number Of Days Recorded	11 – NA				
Highest Estimated Total	4 on 21 May – NA				
Bird Days	19 - 0		Number Banded	0 - 0	

Species	Common Merganser	Latin Name	<i>Mergus merganser</i>		
		AOU Code		AOU #	129.0
First Date Recorded	29 Apr – NA				
Last Date Recorded	6 Jun – NA				
Number Of Days Recorded	5 – NA				
Highest Estimated Total	2 on 3 days (Apr 29 to 5 Jun) – NA				
Bird Days	8 - 0		Number Banded	0 - 0	

Species	Red Breasted Merganser	Latin Name	<i>Mergus serrator</i>		
		AOU Code		AOU #	130.0
First Date Recorded	20 May – NA				
Last Date Recorded	NA – NA				
Number Of Days Recorded	1 – NA				
Highest Estimated Total	2 on 20 May – NA				
Bird Days	2 - 0		Number Banded	0 - 0	

### *Hawks, Eagles & Falcons*

Species	Osprey	Latin Name	<i>Pandion haliaetus</i>		
		AOU Code	OSPR	AOU #	364.0
First Date Recorded	19 May – 24 Jul				
Last Date Recorded	NA – NA				
Number Of Days Recorded	1 – 1				
Highest Estimated Total	1 on 19 May – 1 on 24 Jul				
Bird Days	1 - 1		Number Banded	0 - 0	

Species	Bald Eagle	Latin Name	<i>Haliaeetus leucocephalus</i>		
		AOU Code	BAEA	AOU #	352.0
First Date Recorded		28 Apr – 11 Aug			
Last Date Recorded		2 Jun – 17 Sep			
Number Of Days Recorded		12 – 6			
Highest Estimated Total		2 on 3 May – 1 on all days			
Bird Days		13 - 6	Number Banded		0 - 0

Species	Northern Harrier	Latin Name	<i>Circus cyaneus</i>		
		AOU Code	NOHA	AOU #	331.0
First Date Recorded		25 Apr – 25 Jul			
Last Date Recorded		20 May – 22 Sep			
Number Of Days Recorded		8 – 16			
Highest Estimated Total		2 on 25 Apr – 2 on 11 Sep			
Bird Days		9 - 17	Number Banded		0 - 0

Species	Sharp Shinned Hawk	Latin Name	<i>Accipiter striatus</i>		
		AOU Code	SSHA	AOU #	332.0
First Date Recorded		27 Apr – 3 Aug			
Last Date Recorded		30 May – 16 Sep			
Number Of Days Recorded		5 – 13			
Highest Estimated Total		2 on 26 May – 2 on 10,11 Sep			
Bird Days		6 - 15	Number Banded		1 - 2
	MALE	FEMALE	UNKNOWN	TOTAL	
HATCH YEAR		0 - 1		0 - 1	
SECOND YEAR	1 - 0			1 - 0	
AFTER HATCH YEAR	0 - 1			0 - 1	
TOTAL	1 - 1	0 - 1		1 - 2	

Species	Northern Goshawk	Latin Name	<i>Accipiter gentilis</i>		
		AOU Code	NOGO	AOU #	334.0
First Date Recorded		28 Apr – NA			
Last Date Recorded		NA – NA			
Number Of Days Recorded		1 – NA			
Highest Estimated Total		1 on 28 Apr – NA			
Bird Days		1 - 0	Number Banded		0 - 0

Species	American Kestrel	Latin Name	<i>Falco sparverius</i>		
		AOU Code	AMKE	AOU #	360.0
First Date Recorded		25 Apr – 22 Jul			
Last Date Recorded		25 May – 5 Sep			
Number Of Days Recorded		19 – 11			
Highest Estimated Total		2 on 6 days (12 May to 21 May) – 4 on 25 Aug			
Bird Days		25 – 15	Number Banded		1 - 0
	MALE	FEMALE	UNKNOWN	TOTAL	
AFTER SECOND YEAR	1 - 0			1 - 0	
TOTAL	1 - 0			1 - 0	

## Grouse & Ptarmigan

Species	Ruffed Grouse	Latin Name	<i>Bonasa umbellus</i>		
		AOU Code	RUGR	AOU #	
First Date Recorded	26 Apr – 22 Jul				
Last Date Recorded	6 Jun – 13 Sep				
Number Of Days Recorded	13 – 21				
Highest Estimated Total	2 on 5 days (28 Apr to 5 Jun) – 10 on Aug 10				
Bird Days	18 - 70	Number Banded	0 - 0		

Species	Spruce Grouse	Latin Name	<i>Falcipennis canadensis</i>		
		AOU Code	SPGR	AOU #	
First Date Recorded	5 May – 26 Jul				
Last Date Recorded	21 May – 26 Aug				
Number Of Days Recorded	4 – 16				
Highest Estimated Total	3 on 21 May – 7 on 22 Aug				
Bird Days	7 - 37	Number Banded	0 - 0		

## Shorebirds

Species	American Coot	Latin Name	<i>Fulica americana</i>		
		AOU Code	AMCO	AOU #	221.0
First Date Recorded	2 May – NA				
Last Date Recorded	NA – NA				
Number Of Days Recorded	1 – NA				
Highest Estimated Total	1 on 2 May – NA				
Bird Days	1 - 0	Number Banded	0 - 0		

Species	Semipalmated Plover	Latin Name	<i>Charadrius semipalmatus</i>		
		AOU Code	SEPL	AOU #	274.0
First Date Recorded	17 May – NA				
Last Date Recorded	NA – NA				
Number Of Days Recorded	1 – NA				
Highest Estimated Total	1 on 17 May – NA				
Bird Days	1 - 0	Number Banded	0 - 0		

Species	Greater Yellowlegs	Latin Name	<i>Tringa melanoleuca</i>		
		AOU Code	GRYE	AOU #	254.0
First Date Recorded	26 Apr – NA				
Last Date Recorded	3 Jun – NA				
Number Of Days Recorded	31 – NA				
Highest Estimated Total	5 on 6 May – NA				
Bird Days	53 - 0	Number Banded	0 - 0		

Species	Lesser Yellowlegs	Latin Name	<i>Tringa flavipes</i>		
		AOU Code	LEYE	AOU #	255.0
First Date Recorded		17 May – 2 Aug			
Last Date Recorded		6 Jun – NA			
Number Of Days Recorded		8 – 1			
Highest Estimated Total		2 on 19 and 21 May – 1 on 2 Aug			
Bird Days		10 - 1	Number Banded		0 - 0

Species	Yellowlegs spp	Latin Name	<i>Tringa melanoleuca / Tringa flavipes</i>		
		AOU Code	GRYE / LEYE	AOU #	
First Date Recorded		25 Apr – NA			
Last Date Recorded		NA – NA			
Number Of Days Recorded		1 – NA			
Highest Estimated Total		1 on 25 Apr – NA			
Bird Days		1 - 0	Number Banded		0 - 0

Species	Solitary Sandpiper	Latin Name	<i>Tringa solitaria</i>		
		AOU Code	SOSA	AOU #	256.0
First Date Recorded		7 May – 22 Jul			
Last Date Recorded		28 May – 31 Aug			
Number Of Days Recorded		16 – 6			
Highest Estimated Total		4 on 10 May – 1 on all days			
Bird Days		29 - 6	Number Banded		3 - 0
		MALE	FEMALE	UNKNOWN	TOTAL
AFTER HATCH YEAR				3 - 0	3 - 0
TOTAL				3 - 0	3 - 0

Species	Spotted Sandpiper	Latin Name	<i>Actitis macularia</i>		
		AOU Code	SPSA	AOU #	263.0
First Date Recorded		20 May – NA			
Last Date Recorded		NA – NA			
Number Of Days Recorded		1 – NA			
Highest Estimated Total		1 on 20 May – NA			
Bird Days		1 - 0	Number Banded		0 - 0

Species	Pectoral Sandpiper	Latin Name	<i>Calidris melanotos</i>		
		AOU Code	PESA	AOU #	239.0
First Date Recorded		19 May – NA			
Last Date Recorded		NA – NA			
Number Of Days Recorded		1 – NA			
Highest Estimated Total		55 on 19 May – NA			
Bird Days		55 - 0	Number Banded		0 - 0

Species	Long Billed Dowitcher	Latin Name	<i>Limnodromus scolopaceus</i>				
		AOU Code	LBDO	AOU #	232.0		
First Date Recorded		17 May – NA					
Last Date Recorded		18 May – NA					
Number Of Days Recorded		2 – NA					
Highest Estimated Total		1 on 17 and 18 May – NA					
Bird Days		2 - 0		Number Banded		0 - 0	

Species	Wilson's Snipe	Latin Name	<i>Gallinago gallinago</i>						
		AOU Code	WISN	AOU #	230.0				
First Date Recorded		26 Apr – 30 Jul							
Last Date Recorded		6 Jun – 22 Sep							
Number Of Days Recorded		35 – 19							
Highest Estimated Total		5 on 7 May – 2 on 4 days (29 Aug to 21 Sep)							
Bird Days		55 – 23		Number Banded		2 - 0			
		MALE		FEMALE		UNKNOWN		TOTAL	
AFTER HATCH YEAR						2 - 0		2 - 0	
TOTAL						2 - 0		2 - 0	

### *Gulls & Terns*

Species	Bonaparte's Gull	Latin Name	<i>Larus philadelphia</i>				
		AOU Code	BOGU	AOU #	60.0		
First Date Recorded		10 May – NA					
Last Date Recorded		NA – NA					
Number Of Days Recorded		1 – NA					
Highest Estimated Total		3 on 10 May – NA					
Bird Days		4 - 0		Number Banded		0 - 0	

Species	Mew Gull	Latin Name	<i>Larus canus</i>				
		AOU Code	MEGU	AOU #	55.0		
First Date Recorded		17 May – NA					
Last Date Recorded		6 Jun – NA					
Number Of Days Recorded		11 – NA					
Highest Estimated Total		5 on 28 May – NA					
Bird Days		24 - 0		Number Banded		0 - 0	

Species	Herring Gull	Latin Name	<i>Larus argentatus</i>				
		AOU Code	HEGU	AOU #	51.0		
First Date Recorded		2 May – 22 Jul					
Last Date Recorded		6 Jun – 22 Sep					
Number Of Days Recorded		20 – 4					
Highest Estimated Total		7 on 5 May – 1 on all days					
Bird Days		49 - 4		Number Banded		0 - 0	

## Owls

Species	Northern Hawk Owl	Latin Name	<i>Surnia ulua</i>		
		AOU Code	NHOW	AOU #	377.0
First Date Recorded	NA – 30 Jul				
Last Date Recorded	NA – NA				
Number Of Days Recorded	NA – 1				
Highest Estimated Total	NA – 1 on 30 Jul				
Bird Days	0 - 1	Number Banded	0 - 0		

## Nighthawks

Species	Common Nighthawk	Latin Name	<i>Chordeils minor</i>		
		AOU Code	CONI	AOU #	420.0
First Date Recorded	5 Jun – NA				
Last Date Recorded	6 Jun – NA				
Number Of Days Recorded	2 – NA				
Highest Estimated Total	1 on both days – NA				
Bird Days	2 - 0	Number Banded	0 - 0		

## Hummingbirds

Species	Rufous Hummingbird	Latin Name	<i>Selasphorus rufus</i>		
		AOU Code	RUHU	AOU #	433.0
First Date Recorded	26 May – NA				
Last Date Recorded	NA – NA				
Number Of Days Recorded	1 – NA				
Highest Estimated Total	1 on 26 May – NA				
Bird Days	1 - 0	Number Banded	0 - 0		

## Kingfishers

Species	Belted Kingfisher	Latin Name	<i>Ceryle alcyon</i>		
		AOU Code	BEKI	AOU #	390.0
First Date Recorded	25 Apr – 22 Jul				
Last Date Recorded	6 Jun – 10 Sep				
Number Of Days Recorded	36 – 35				
Highest Estimated Total	4 on 17, 18, 21 May – 4 on 25 Aug				
Bird Days	66 - 44	Number Banded	0 - 0		

## Woodpeckers

Species	Yellow Bellied Sapsucker	Latin Name	<i>Sphyrapicus varius</i>		
		AOU Code	YBSA	AOU #	402.0
First Date Recorded	25 Apr – 23 Jul				
Last Date Recorded	6 Jun – 7 Sep				
Number Of Days Recorded	41 – 14				
Highest Estimated Total	18 on 15 May – 5 on 25 Jul				
Bird Days	94 – 24		Number Banded		9 - 14
	MALE	FEMALE	UNKNOWN	TOTAL	
AFTER HATCH YEAR	4 – 0	1 – 3		5 – 3	
HATCH YEAR	0 – 5	0 – 1	0 – 5	0 – 11	
SECOND YEAR		2 - 0		2 – 0	
THIRD YEAR	2 – 0			2 – 0	
TOTAL	6 – 5	3 - 4	0 – 5	9 – 14	

Species	Hairy Woodpecker	Latin Name	<i>Picoides villosus</i>		
		AOU Code	HAWO	AOU #	393.0
First Date Recorded	26 Apr- 1 Aug				
Last Date Recorded	6 Jun – 22 Sep				
Number Of Days Recorded	16 – 10				
Highest Estimated Total	2 on 6 Jun – 1 on all days				
Bird Days	17 - 10		Number Banded		1 - 0
	MALE	FEMALE	UNKNOWN	TOTAL	
AFTER THIRD YEAR	1 – 0			1 - 0	
TOTAL	1 – 0			1 – 0	

Species	Three Toed Woodpecker	Latin Name	<i>Picoides tridactylus</i>		
		AOU Code	TTWO	AOU #	401.0
First Date Recorded	19 May – 27 Jul				
Last Date Recorded	NA – 11 Sep				
Number Of Days Recorded	1 – 16				
Highest Estimated Total	1 on 19 May – 2 on 8 Aug				
Bird Days	1 – 17		Number Banded		0 - 0

Species	Black Backed Woodpecker	Latin Name	<i>Picodes arcticus</i>		
		AOU Code	BBWO	AOU #	400.0
First Date Recorded	8 May – 31 Jul				
Last Date Recorded	21 May – 22 Sep				
Number Of Days Recorded	2 – 5				
Highest Estimated Total	1 on both days – 1 on all days				
Bird Days	2 - 5		Number Banded		0 - 0

Species	"Yellow Shafted" Northern Flicker	Latin Name	<i>Colaptes auratus</i>		
		AOU Code	YSFL	AOU #	412.0
First Date Recorded	24 Apr – 25 Jul				
Last Date Recorded	6 Jun – 9 Sep				
Number Of Days Recorded	38 – 19				
Highest Estimated Total	3 on 4, 21 May – 2 on 22 Aug				
Bird Days	60 - 19		Number Banded	2 - 1	
	MALE	FEMALE	UNKNOWN	TOTAL	
AFTER HATCH YEAR	2 – 1			2 – 1	
TOTAL	2 – 1			2 – 1	

Species	Pileated Woodpecker	Latin Name	<i>Dryocopus pileatus</i>		
		AOU Code	PIWO	AOU #	405.0
First Date Recorded	29 Apr – 25 Jul				
Last Date Recorded	21 May – 21 Sep				
Number Of Days Recorded	7 – 22				
Highest Estimated Total	2 on 4 days from 29 Apr to 13 May – 4 on 22 Aug				
Bird Days	11 - 28		Number Banded	1 - 2	
	MALE	FEMALE	UNKNOWN	TOTAL	
AFTER HATCH YEAR	1 – 1	0 – 1		1 – 2	
TOTAL	1 – 1	0 – 1		1 – 2	

### *Flycatchers*

Species	Olive Sided Flycatcher	Latin Name	<i>Contopus cooperi</i>		
		AOU Code	OSFL	AOU #	459.0
First Date Recorded	20 May – 7 Aug				
Last Date Recorded	22 May – 9 Aug				
Number Of Days Recorded	2 – 2				
Highest Estimated Total	1 on both days - 1 on both days				
Bird Days	2 - 2		Number Banded	0 - 0	

Species	Western Wood Pewee	Latin Name	<i>Contopus sordidulus</i>		
		AOU Code	WEWP	AOU #	462.0
First Date Recorded	2 May – NA				
Last Date Recorded	4 May – NA				
Number Of Days Recorded	2 – NA				
Highest Estimated Total	1 on both days – NA				
Bird Days	2 - 0		Number Banded	0 - 0	

Species	Yellow Bellied Flycatcher	Latin Name	<i>Empidonax flaviventris</i>				
		AOU Code	YBFL	AOU #	463.0		
First Date Recorded		6 Jun – 22 Jul					
Last Date Recorded		NA – 15 Aug					
Number Of Days Recorded		1 – 3					
Highest Estimated Total		1 on 6 Jun – 2 on 26 Jul					
Bird Days		1 - 4		Number Banded		1 - 2	
	MALE	FEMALE	UNKNOWN	TOTAL			
AFTER HATCH YEAR			1 – 0	1 – 0			
HATCH YEAR			0 – 1	0 – 1			
UNKNOWN			0 – 1	0 – 1			
TOTAL			1 – 2	1 – 2			

Species	Alder Flycatcher	Latin Name	<i>Empidonax alnorum</i>				
		AOU Code	ALFL	AOU #	466.1		
First Date Recorded		25 May – 26 Jul					
Last Date Recorded		6 Jun – 12 Sep					
Number Of Days Recorded		9 – 43					
Highest Estimated Total		16 on 6 Jun – 21 on 16 Aug					
Bird Days		46 - 259		Number Banded		23 - 174	
	MALE	FEMALE	UNKNOWN	TOTAL			
AFTER HATCH YEAR		0 - 11	10 - 55	10 – 66			
AFTER SECOND YEAR			13 - 0	13 – 0			
HATCH YEAR			0 – 97	0 – 97			
UKNOWN			0 – 11	0 – 11			
TOTAL	0 – 0	0 – 11	23 – 163	23 - 174			

Species	Least Flycatcher	Latin Name	<i>Empidonax minimus</i>				
		AOU Code	LEFL	AOU #	467		
First Date Recorded		29 May – 30 Jul					
Last Date Recorded		6 Jun – 29 Aug					
Number Of Days Recorded		5 – 12					
Highest Estimated Total		6 on 6 Jun – 4 on 9 Aug					
Bird Days		11 - 4		Number Banded		2 - 16	
	MALE	FEMALE	UNKNOWN	TOTAL			
AFTER HATCH YEAR		1 - 2	1 - 0	2 – 2			
HATCH YEAR			0 – 11	0 – 11			
UNKNOWN			0 – 3	0 – 3			
TOTAL		1 – 2	1 - 14	2 - 16			

Species	Hammond's Flycatcher	Latin Name	<i>Empidonax hammondii</i>				
		AOU Code	HAFL	AOU #	468		
First Date Recorded		29 Apr – 27 Jul					
Last Date Recorded		5 Jun – 12 Aug					
Number Of Days Recorded		21 – 9					
Highest Estimated Total		4 on 11 May – 4 on 29 Jul					
Bird Days		36 - 19		Number Banded		12 - 14	
	MALE	FEMALE	UNKNOWN	TOTAL			
AFTER HATCH YEAR		0 – 2	11 – 2	11 – 4			
HATCH YEAR			0 – 9	0 – 9			
SECOND YEAR			1 – 0	1 – 0			
UNKNOWN			0 – 1	0 – 1			
TOTAL			12 -	12 - 14			

Species	Dusky Flycatcher	Latin Name	<i>Empidonax oberholseri</i>				
		AOU Code	DUFL	AOU #	469		
First Date Recorded		15 May – NA					
Last Date Recorded		NA – NA					
Number Of Days Recorded		1 – NA					
Highest Estimated Total		1 on 15 May – NA					
Bird Days		1 – 0		Number Banded		1 – 0	
	MALE	FEMALE	UNKNOWN	TOTAL			
AFTER SECOND YEAR			1 – 0	1 - 0			
TOTAL			1 – 0	1 - 0			

Species	Say's Phoebe	Latin Name	<i>Sayornis saya</i>				
		AOU Code	SAPH	AOU #	497		
First Date Recorded		4 May – NA					
Last Date Recorded		NA – NA					
Number Of Days Recorded		1 – NA					
Highest Estimated Total		1 on 4 May – NA					
Bird Days		1 - 0		Number Banded		0 - 0	

### *Vireos*

Species	Blue Headed Vireo	Latin Name	<i>Vireo solitarius</i>				
		AOU Code	BHVI	AOU #	629.0		
First Date Recorded		20 May – 25 Jul					
Last Date Recorded		1 Jun – 23 Aug					
Number Of Days Recorded		2 – 3					
Highest Estimated Total		1 on both days – 3 on 25 Aug					
Bird Days		2 – 5		Number Banded		0 - 4	
	MALE	FEMALE	UNKNOWN	TOTAL			
AFTER HATCH YEAR		0 – 2		0 – 2			
HATCH YEAR			0 – 2	0 – 2			
TOTAL		0 – 2	0 - 2	0 - 4			

Species	Warbling Vireo	Latin Name	<i>Vireo gilvus</i>		
		AOU Code	WAVI	AOU #	627.0
First Date Recorded		12 May – 22 Jul			
Last Date Recorded		6 Jun – 3 Sep			
Number Of Days Recorded		24 – 35			
Highest Estimated Total		7 on 19 May – 9 on 30,31 Jul			
Bird Days		77 - 112	Number Banded		10 - 34
	MALE	FEMALE	UNKNOWN	TOTAL	
AFTER HATCH YEAR		0 - 7	7 - 3	7 - 10	
AFTER SECOND YEAR			1 - 0	1 - 0	
HATCH YEAR			0 - 24	0 - 24	
SECOND YEAR		1 - 0	1 - 0	2 - 0	
TOTAL		1 - 7	9 - 27	10 - 34	

### Jays & Crows

Species	Gray Jay	Latin Name	<i>Perisoreus canadensis</i>		
		AOU Code	GRAJ	AOU #	484.0
First Date Recorded		24 Apr – 23 Jul			
Last Date Recorded		6 Jun – 21 Sep			
Number Of Days Recorded		32 – 37			
Highest Estimated Total		2 on 12 days (1 May to 6 Jun) – 4 on 25 Jul			
Bird Days		43 - 54	Number Banded		1 - 2
	MALE	FEMALE	UNKNOWN	TOTAL	
AFTER HATCH YEAR		1 - 0		1 - 0	
HATCH YEAR			0 - 2	0 - 2	
TOTAL		1 - 0	0 - 2	1 - 2	

Species	Common Raven	Latin Name	<i>Corvus corax</i>		
		AOU Code	CORA	AOU #	486.0
First Date Recorded		25 Apr – 24 Jul			
Last Date Recorded		6 Jun – 21 Sep			
Number Of Days Recorded		40 – 52			
Highest Estimated Total		32 on 21 May – 20 on 20 Aug			
Bird Days		129 - 166	Number Banded		0 - 0

Species	American Crow	Latin Name	<i>Corvus brachyrhynchos</i>		
		AOU Code	AMCR	AOU #	488.0
First Date Recorded		22 May – NA			
Last Date Recorded		NA – NA			
Number Of Days Recorded		1 – NA			
Highest Estimated Total		2 on 22 May – NA			
Bird Days		2 - 0	Number Banded		0 - 0

## Swallows

Species	Tree Swallow	Latin Name	<i>Tachycineta bicolor</i>		
		AOU Code	TRES	AOU #	614.0
First Date Recorded		4 May – 22 Jul			
Last Date Recorded		6 Jun – 9 Aug			
Number Of Days Recorded		31 – 4			
Highest Estimated Total		11 on 18 May – 1 on all days			
Bird Days		126 - 4	Number Banded		0 - 0

Species	Cliff Swallow	Latin Name	<i>Petrochelidon pyrrhonota</i>		
		AOU Code	CLSW	AOU #	612.0
First Date Recorded		3 Jun – 31 Jul			
Last Date Recorded		5 Jun – 15 Aug			
Number Of Days Recorded		3 – 8			
Highest Estimated Total		6 on 4 Jun – 5 on 8 Aug			
Bird Days		12 – 15	Number Banded		0 - 0

## Chickadees and Nuthatches

Species	Black Capped Chickadee	Latin Name	<i>Poecile atricapilus</i>		
		AOU Code	BCCH	AOU #	735.0
First Date Recorded		27 Apr – 23 Jul			
Last Date Recorded		31 May – 22 Sep			
Number Of Days Recorded		18 – 50			
Highest Estimated Total		3 on 1 May – 9 on 15 Sep			
Bird Days		29 - 165	Number Banded		2 - 13
		MALE	FEMALE	UNKNOWN	TOTAL
AFTER HATCH YEAR			1 - 1	1 - 0	2 - 1
HATCH YEAR				0 - 9	0 - 9
UNKNOWN				0 - 3	0 - 3
TOTAL			1 - 1	1 - 12	2 - 13

Species	Boreal Chickadee	Latin Name	<i>Poecile hudsonicus</i>		
		AOU Code	BOCH	AOU #	740.0
First Date Recorded		25 Apr – 30 Jul			
Last Date Recorded		30 May – 22 Sep			
Number Of Days Recorded		6 – 30			
Highest Estimated Total		3 on 27 Apr – 6 on 5 Sep			
Bird Days		8 – 67	Number Banded		1 - 8
		MALE	FEMALE	UNKNOWN	TOTAL
AFTER HATCH YEAR				1 - 1	1 - 1
HATCH YEAR				0 - 4	0 - 4
UNKNOWN				0 - 3	0 - 3
TOTAL				1 - 8	1 - 8

Species	Red Breasted Nuthatch	Latin Name	<i>Sitta canadensis</i>		
		AOU Code	RBNU	AOU #	728.0
First Date Recorded		14 May – 29 Jul			
Last Date Recorded		30 May – 16 Sep			
Number Of Days Recorded		4 – 14			
Highest Estimated Total		1 on all days – 2 on 10 Aug			
Bird Days		4 – 17	Number Banded		0 - 0

### *Kinglets*

Species	Ruby Crowned Kinglet	Latin Name	<i>Regulus calendula</i>		
		AOU Code	RCKI	AOU #	749.0
First Date Recorded		24 Apr – 24 Jul			
Last Date Recorded		25 May – 23 Sep			
Number Of Days Recorded		44 – 57			
Highest Estimated Total		6 on 4 days (25 Apr – 4 May) – 38 on 3 Sep			
Bird Days		112 – 389	Number Banded		18 - 200
		MALE	FEMALE	UNKNOWN	TOTAL
AFTER HATCH YEAR		7 – 12	11 – 10		18 - 22
HATCH YEAR		0 – 76	0 – 42	0 – 60	0 – 178
TOTAL		7 – 88	11 – 52	0 – 60	18 - 200

Species	Golden Crowned Kinglet	Latin Name	<i>Regulus satrapa</i>		
		AOU Code	GCKI	AOU #	748.0
First Date Recorded		NA – 1 Sep			
Last Date Recorded		NA – 17 Sep			
Number Of Days Recorded		NA – 3			
Highest Estimated Total		NA – 2 on 11 Sep			
Bird Days		0 - 4	Number Banded		0 - 3
		MALE	FEMALE	UNKNOWN	TOTAL
HATCH YEAR		0 – 1	0 – 1		0 – 2
UNKNOWN			0 – 1		0 – 1
TOTAL		0 – 1	0 – 2		0 – 3

### *Thrush*

Species	Gray Cheeked Thrush	Latin Name	<i>Catharus minimus</i>		
		AOU Code	GCTH	AOU #	757.0
First Date Recorded		13 May – 9 Aug			
Last Date Recorded		25 May – 17 Sep			
Number Of Days Recorded		2 – 7			
Highest Estimated Total		1 on both days – 4 on 11 Sep			
Bird Days		2 - 10	Number Banded		2 - 8
		MALE	FEMALE	UNKNOWN	TOTAL
AFTER HATCH YEAR				2 – 0	2 - 0
HATCH YEAR				0 – 8	0 – 8
TOTAL				2 – 8	2 - 8

Species	Swainson's Thrush	Latin Name	<i>Catharus ustulatus</i>		
		AOU Code	SWTH	AOU #	758.0
First Date Recorded		13 May – 23 Jul			
Last Date Recorded		6 Jun – 16 Sep			
Number Of Days Recorded		17 – 46			
Highest Estimated Total		8 (27 May, 6 Jun) – 17 on 8 Aug			
Bird Days		81 - 268	Number Banded		19 - 133
	MALE	FEMALE	UNKNOWN	TOTAL	
AFTER HATCH YEAR	1 – 0	1 – 7	9 – 10	11 – 17	
HATCH YEAR			0 – 114	0 – 114	
AFTER SECOND YEAR			4 – 0	4 – 0	
SECOND YEAR		0 – 1	4 – 0	4 – 1	
UNKNOWN			0 – 1	0 - 1	
TOTAL	1 – 0	1 – 8	17 – 124	19 - 133	

Species	Hermit Thrush	Latin Name	<i>Catharus guttatus</i>		
		AOU Code	HETH	AOU #	759.0
First Date Recorded		28 Apr – 4 Aug			
Last Date Recorded		23 May – 23 Sep			
Number Of Days Recorded		19 – 3			
Highest Estimated Total		2 on 22 May – 1 on all days			
Bird Days		20 – 3	Number Banded		5 - 2
	MALE	FEMALE	UNKNOWN	TOTAL	
HATCH YEAR			0 – 1	0 – 1	
AFTER SECOND YEAR			1 – 0	1 – 0	
SECOND YEAR			4 – 0	4 – 0	
UNKNOWN			0 – 1	0 – 1	
TOTAL			5 – 2	5 - 2	

Species	American Robin	Latin Name	<i>Turdus migratorius</i>		
		AOU Code	AMRO	AOU #	761.0
First Date Recorded		24 Apr – 22 Jul			
Last Date Recorded		6 Jun – 22 Sep			
Number Of Days Recorded		43 – 28			
Highest Estimated Total		10 on 30 Apr – 3 on 26 Jul			
Bird Days		182 – 36	Number Banded		19 - 1
	MALE	FEMALE	UNKNOWN	TOTAL	
AFTER HATCH YEAR	7 – 0	3 - 0	4 – 0	14 – 0	
HATCH YEAR			0 – 1	0 – 1	
AFTER SECOND YEAR	1 – 0	1 – 0		2 – 0	
SECOND YEAR	1 – 0	1 – 0	1 – 0	3 – 0	
TOTAL	9 – 0	5 – 0	5 - 0	19 - 1	

Species	Varied Thrush	Latin Name	<i>Ixoreus naevius</i>			
		AOU Code	VATH	AOU #	763.0	
First Date Recorded		27 Apr – 28 Jul				
Last Date Recorded		6 Jun – 21 Sep				
Number Of Days Recorded		27 – 12				
Highest Estimated Total		3 on 10 May – 2 on 9, 10 Sep				
Bird Days		32 - 17		Number Banded		2 - 0
	MALE	FEMALE	UNKNOWN	TOTAL		
AFTER HATCH YEAR	1 - 0		1 - 0	2 - 0		
TOTAL	1 - 0		1 - 0	2 - 0		

### Pipits

Species	American Pipit	Latin Name	<i>Anthus rubescens</i>			
		AOU Code	AMPI	AOU #	697.0	
First Date Recorded		27 Apr – 2 Sep				
Last Date Recorded		17 May – 6 Sep				
Number Of Days Recorded		8 – 3				
Highest Estimated Total		2 on 2 May – 1 on all days				
Bird Days		9 - 3		Number Banded		0 - 0
	MALE	FEMALE	UNKNOWN	TOTAL		
AFTER HATCH YEAR			6 - 0	6 - 0		
TOTAL			6 - 0	6 - 0		

### Waxwings

Species	Bohemian Waxwing	Latin Name	<i>Bombycilla garrulus</i>			
		AOU Code	BOWA	AOU #	618.0	
First Date Recorded		24 Apr – 29 Jul				
Last Date Recorded		31 May – 9 Sep				
Number Of Days Recorded		31 – 12				
Highest Estimated Total		10 on 18 May – 9 on 21 Aug				
Bird Days		123 – 41		Number Banded		6 - 0
	MALE	FEMALE	UNKNOWN	TOTAL		
AFTER HATCH YEAR			6 - 0	6 - 0		
TOTAL			6 - 0	6 - 0		

### Warblers

Species	Tennessee Warbler	Latin Name	<i>Vermivora peregrine</i>			
		AOU Code	TEWA	AOU #	647.0	
First Date Recorded		22 May – 23 Jul				
Last Date Recorded		6 Jun – 19 Aug				
Number Of Days Recorded		15 – 18				
Highest Estimated Total		24 on 5,6 Jun – 13 on 25 Jul				
Bird Days		184 - 61		Number Banded		51 - 33
	MALE	FEMALE	UNKNOWN	TOTAL		
AFTER HATCH YEAR	10 - 1	4 - 2	2 - 6	16 - 9		
HATCH YEAR		0 - 1	0 - 23	0 - 24		
AFTER SECOND YEAR	23 - 0	4 - 0		27 - 0		
SECOND YEAR	4 - 0	4 - 0		8 - 0		
TOTAL	37 - 1	12 - 3	2 - 29	51 - 33		

Species	Orange-crowned Warbler	Latin Name	<i>Vermivora celata</i>		
		AOU Code	OCWA	AOU #	646.0
First Date Recorded		29 Apr – 16 Aug			
Last Date Recorded		5 Jun – 20 Sep			
Number Of Days Recorded		25 – 30			
Highest Estimated Total		35 on 17 May – 23 on 3 Sep			
Bird Days		184 - 151		Number Banded	
				105 - 122	
	MALE	FEMALE	UNKNOWN	TOTAL	
AFTER HATCH YEAR	20 – 8	10 – 5	12 – 2	42 – 15	
HATCH YEAR	0 – 10		0 – 95	0 – 105	
AFTER SECOND YEAR	15 – 0	15 – 0	6 – 0	36 – 0	
SECOND YEAR	12 – 0	8 – 0	7 – 0	27 – 0	
UNKNOWN			0 – 2	0 – 2	
TOTAL	47 – 20	33 – 5	25 - 99	105 – 122	

Species	Yellow Warbler	Latin Name	<i>Dendroica petechia</i>		
		AOU Code	YWAR	AOU #	652.0
First Date Recorded		15 May – 25 Jul			
Last Date Recorded		6 Jun – 3 Sep			
Number Of Days Recorded		18 – 31			
Highest Estimated Total		7 on 2 Jun – 28 on 14 Aug			
Bird Days		55 - 194		Number Banded	
				33 – 149	
	MALE	FEMALE	UNKNOWN	TOTAL	
AFTER HATCH YEAR	6 – 6	5 – 3	0 – 17	11 – 26	
AFTER SECOND YEAR	3 – 0		1 – 0	4 – 0	
SECOND YEAR	10 – 0	8 – 0		18 – 0	
HATCH YEAR	0 – 2		0 - 121	0 – 123	
TOTAL	19 – 8	13 – 3	1 - 121	33 - 149	

Species	Magnolia Warbler	Latin Name	<i>Dendroica magnolia</i>		
		AOU Code	MAWA	AOU #	657.0
First Date Recorded		24 May – 26 Jul			
Last Date Recorded		6 Jun – 6 Sep			
Number Of Days Recorded		8 – 17			
Highest Estimated Total		3 on 24 May, 3 Jun – 3 on 12, 16 Aug			
Bird Days		17 – 25		Number Banded	
				4 - 22	
	MALE	FEMALE	UNKNOWN	TOTAL	
AFTER HATCH YEAR	2 – 0	0 – 1	0 – 2	2 – 3	
AFTER SECOND YEAR	1 – 0			1 – 0	
SECOND YEAR	1 – 0			1 – 0	
HATCH YEAR			0 – 15	0 – 15	
UNKNOWN			0 – 5	0 – 5	
TOTAL	4 – 0	0 – 1	0 – 22	4 – 22	

Species	Cape May Warbler	Latin Name	<i>Dendroica tigrina</i>				
		AOU Code	CMWA	AOU #	650.0		
First Date Recorded		1 Jun – 25 Jul					
Last Date Recorded		6 Jun – 27 Jul					
Number Of Days Recorded		4 – 2					
Highest Estimated Total		2 on 1 Jun – 1 on both days					
Bird Days		5 - 2		Number Banded		0 - 2	
	MALE	FEMALE		UNKNOWN		TOTAL	
AFTER HATCH YEAR	0 – 2					0 – 2	
TOTAL	0 – 2					0 - 2	

Species	Yellow-rumped "Myrtle" Warbler	Latin Name	<i>Dendroica coronata</i>				
		AOU Code	MYWA	AOU #	655.0		
First Date Recorded		25 Apr – 24 Jul					
Last Date Recorded		6 Jun – 23 Sep					
Number Of Days Recorded		32 – 44					
Highest Estimated Total		35 on 19 May – 55 on 1 Sep					
Bird Days		199 – 355		Number Banded		91 - 185	
	MALE	FEMALE		UNKNOWN		TOTAL	
AFTER HATCH YEAR	17 – 2	10 – 2		9 – 21		36 – 25	
AFTER SECOND YEAR	14 – 0	8 – 0				22 – 0	
SECOND YEAR	14 – 0	12 – 0		7 – 0		33 – 0	
HATCH YEAR				0 – 160		0 – 160	
TOTAL	45 – 2	30 – 2		16 – 181		91 – 185	

Species	Townsend's Warbler	Latin Name	<i>Dendroica townsendii</i>				
		AOU Code	TOWA	AOU #	668.0		
First Date Recorded		NA – 16 Aug					
Last Date Recorded		NA – NA					
Number Of Days Recorded		NA – 1					
Highest Estimated Total		NA – 3 on 16 Aug					
Bird Days		0 – 3		Number Banded		0 – 3	
	MALE	FEMALE		UNKNOWN		TOTAL	
HATCH YEAR				0 – 3		0 – 3	
TOTAL				0 – 3		0 - 3	

Species	Bay-breasted Warbler	Latin Name	<i>Dendroica castanea</i>			
		AOU Code	BBWA	AOU #	660.0	
First Date Recorded		23 May – NA				
Last Date Recorded		NA – NA				
Number Of Days Recorded		1 – NA				
Highest Estimated Total		1 on 23 May – NA				
Bird Days	1 – 0		Number Banded		0 – 0	

Species	Blackpoll Warbler	Latin Name	<i>Dendroica striata</i>		
		AOU Code	BLPW	AOU #	661.0
First Date Recorded		16 May – 9 Aug			
Last Date Recorded		29 May – 10 Sep			
Number Of Days Recorded		12 – 15			
Highest Estimated Total		10 on 21 May – 5 on 16 Aug			
Bird Days		30 - 33		Number Banded	
	MALE	FEMALE	UNKNOWN	TOTAL	
AFTER HATCH YEAR	5 – 0	3 – 0	0 – 4	8 - 4	
AFTER SECOND YEAR	4 – 0	1 – 0	1 – 0	6 – 0	
SECOND YEAR	3 – 0			3 – 0	
HATCH YEAR			0 – 25	0 – 25	
UNKNOWN			0 – 1	0 – 1	
TOTAL	12 – 0	4 – 0	1 – 30	17 -30	

Species	Black-and-White Warbler	Latin Name	<i>Mniotilta varia</i>		
		AOU Code	BAWW	AOU #	636.0
First Date Recorded		3 Jun – 4 Aug			
Last Date Recorded		NA – NA			
Number Of Days Recorded		1 – 1			
Highest Estimated Total		1 on 3 Jun - 1 on 4 Aug			
Bird Days		1 - 1		Number Banded	
	MALE	FEMALE	UNKNOWN	TOTAL	
HATCH YEAR			0 – 1	0 – 1	
TOTAL			0 – 1	0 - 1	

Species	American Redstart	Latin Name	<i>Stenophaga ruticilla</i>		
		AOU Code	AMRE	AOU #	687.0
First Date Recorded		27 May – 22 Jul			
Last Date Recorded		6 Jun – 10 Sep			
Number Of Days Recorded		8 – 36			
Highest Estimated Total		8 on 6 Jun – 9 on 3 Aug			
Bird Days		29 - 116		Number Banded	
	MALE	FEMALE	UNKNOWN	TOTAL	
AFTER HATCH YEAR	0 – 1	1 – 7	0 – 1	1 – 9	
AFTER SECOND YEAR	2 – 7			2 – 7	
SECOND YEAR	6 – 1			6 - 1	
HATCH YEAR	0 – 1		0 – 36	0 – 37	
TOTAL	8 – 10	1 – 7	0 – 37	9 - 54	

Species	Northern Waterthrush	Latin Name	<i>Seirus noveboracensis</i>		
		AOU Code	NOWA	AOU #	675.0
First Date Recorded		11 May – 23 Jul			
Last Date Recorded		6 Jun – 17 Sep			
Number Of Days Recorded		27 – 43			
Highest Estimated Total		16 on 21 May – 23 on 16 Aug			
Bird Days		121 - 247		Number Banded	
				50 - 157	
	MALE	FEMALE	UNKNOWN	TOTAL	
AFTER HATCH YEAR			25 – 25	25 – 25	
AFTER SECOND YEAR			14 – 0	14 – 0	
SECOND YEAR			11 – 0	11 – 0	
HATCH YEAR			0 – 130	0 – 130	
UNKNOWN			0 – 2	0 – 2	
TOTAL			50 – 157	50 - 157	

Species	Common Yellowthroat	Latin Name	<i>Geothlypis trichas</i>		
		AOU Code	COYE	AOU #	681.0
First Date Recorded		14 May – 22 Jul			
Last Date Recorded		6 Jun – 18 Sep			
Number Of Days Recorded		24 – 54			
Highest Estimated Total		9 on 17 May – 19 on 14 Aug			
Bird Days		85 - 497		Number Banded	
				19 - 199	
	MALE	FEMALE	UNKNOWN	TOTAL	
AFTER HATCH YEAR	8 – 7	3 – 7	1 – 1	12 – 15	
AFTER SECOND YEAR	1 – 0		1 – 0	2 – 0	
SECOND YEAR	3 – 0	2 – 0		5 – 0	
HATCH YEAR	0 – 51		0 – 130	0 – 181	
UNKNOWN			0 – 3	0 – 3	
TOTAL	12 – 58	5 – 7	2 – 134	19 - 199	

Species	Wilson's Warbler	Latin Name	<i>Wilsonia pusilla</i>		
		AOU Code	WIWA	AOU #	685.0
First Date Recorded		3 May – 3 Aug			
Last Date Recorded		6 Jun – 22 Sep			
Number Of Days Recorded		35 – 33			
Highest Estimated Total		185 on 21 May – 18 on 19 Aug			
Bird Days		811 – 141		Number Banded	
				552 – 106	
	MALE	FEMALE	UNKNOWN	TOTAL	
AFTER HATCH YEAR	99 - 7	58 – 4	23 – 4	180 - 15	
AFTER SECOND YEAR	87 – 0	68 – 0	11 – 0	166 – 0	
SECOND YEAR	117 – 0	80 – 0	9 – 0	206 – 0	
HATCH YEAR	0 – 38	0 – 40	0 – 12	0 – 90	
UNKNOWN	0 – 1			0 – 1	
TOTAL	303 – 46	206 – 44	43 – 16	552 - 106	

## Tanagers

Species	Western Tanager		Latin Name	<i>Piranga ludoviciana</i>		
			AOU Code	WETA	AOU #	607.0
First Date Recorded	12 May – 22 Jul					
Last Date Recorded	5 Jun – 31 Aug					
Number Of Days Recorded	22 – 14					
Highest Estimated Total	2 on 13 days (16 May to 3 Jun) – 4 on 26 Jul					
Bird Days	35 – 17			Number Banded	1 – 3	
	MALE	FEMALE	UNKNOWN	TOTAL		
AFTER HATCH YEAR	0 – 1			0 – 1		
AFTER SECOND YEAR	1 – 0			1 – 0		
HATCH YEAR			0 – 2	0 – 2		
TOTAL	1 – 1		0 – 2	1 – 3		

## Sparrows

Species	American Tree Sparrow		Latin Name	<i>Spizella arborea</i>		
			AOU Code	ATSP	AOU #	559.0
First Date Recorded	25 Apr – 18 Aug					
Last Date Recorded	9 May – 23 Sep					
Number Of Days Recorded	16 – 23					
Highest Estimated Total	77 on 1 May – 38 on 21 Sep					
Bird Days	459 – 264			Number Banded	175 - 150	
	MALE	FEMALE	UNKNOWN	TOTAL		
AFTER HATCH YEAR			175 – 27	175 - 27		
HATCH YEAR			0 – 113	0 – 113		
UNKNOWN			0 – 10	0 – 10		
TOTAL			175 – 150	175 - 150		

Species	Chipping Sparrow		Latin Name	<i>Spizella passerina</i>		
			AOU Code	CHSP	AOU #	560.0
First Date Recorded	16 May – 27 Jul					
Last Date Recorded	4 Jun – 16 Aug					
Number Of Days Recorded	9 – 2					
Highest Estimated Total	11 on 17 May – 1 on both days					
Bird Days	30 – 2			Number Banded	12 – 2	
	MALE	FEMALE	UNKNOWN	TOTAL		
AFTER HATCH YEAR	3 – 0		3 – 0	6 – 0		
AFTER SECOND YEAR			6 – 0	6 – 0		
HATCH YEAR			0 – 2	0 – 2		
TOTAL	3 – 0		9 – 2	12 - 2		

Species	Savannah Sparrow	Latin Name	<i>Passerculus sandwichensis</i>		
		AOU Code	SAVS	AOU #	542.0
First Date Recorded		2 May – 22 Aug			
Last Date Recorded		29 May – 18 Sep			
Number Of Days Recorded		21 – 6			
Highest Estimated Total		6 on 17 & 21 May – 2 on 5 Sep			
Bird Days		50 – 7		Number Banded	
				31 - 7	
	MALE	FEMALE	UNKNOWN	TOTAL	
AFTER HATCH YEAR		2 – 0	25 – 1	27 - 1	
AFTER SECOND YEAR			3 - 0	3 – 0	
SECOND YEAR			1 – 0	1 - 0	
HATCH YEAR			0 – 6	0 - 6	
TOTAL		2 – 0	29 – 7	31 - 7	

Species	Fox Sparrow	Latin Name	<i>Passerella iliaca</i>		
		AOU Code	FOSP	AOU #	585.0
First Date Recorded		25 Apr – 8 Aug			
Last Date Recorded		6 Jun – 15 Sep			
Number Of Days Recorded		40 – 20			
Highest Estimated Total		56 on 27 Apr – 8 on 10 Sep			
Bird Days		341 – 51		Number Banded	
				143 - 25	
	MALE	FEMALE	UNKNOWN	TOTAL	
AFTER HATCH YEAR		2 – 0	141 – 10	143 – 10	
HATCH YEAR			0 – 14	0 – 14	
UNKNOWN			0 – 1	0 – 1	
TOTAL		2 – 0	141 – 25	143 - 25	

Species	Lincoln's Sparrow	Latin Name	<i>Melospiza lincolni</i>		
		AOU Code	LISP	AOU #	583.0
First Date Recorded		27 Apr – 24 Jul			
Last Date Recorded		6 Jun – 23 Sep			
Number Of Days Recorded		37 – 52			
Highest Estimated Total		10 on 5 May – 11 on 11 Aug			
Bird Days		138 – 203		Number Banded	
				51 - 108	
	MALE	FEMALE	UNKNOWN	TOTAL	
AFTER HATCH YEAR	2 – 0	1 – 6	44 – 10	47 - 16	
AFTER SECOND YEAR		1 – 0	1 – 0	2 – 0	
SECOND YEAR			2 – 0	2 – 0	
HATCH YEAR			0 – 91	0 – 91	
UNKNOWN			0 – 1	0 – 1	
TOTAL	2 – 0	2 – 6	47 – 102	51 - 108	

Species	Swamp Sparrow	Latin Name	<i>Melospiza georgiana</i>		
		AOU Code	SWSP	AOU #	584.0
First Date Recorded		27 Apr – 23 Jul			
Last Date Recorded		NA – 15 Sep			
Number Of Days Recorded		1 – 28			
Highest Estimated Total		1 on 27 Apr – 9 on 25 Jul			
Bird Days		1 – 71		Number Banded	
	MALE	FEMALE	UNKNOWN	TOTAL	
AFTER HATCH YEAR			1 – 0	1 – 0	
HATCH YEAR			0 – 32	0 – 32	
UNKNOWN			0 – 1	0 – 1	
TOTAL			1 – 33	1 - 33	

Species	Song Sparrow	Latin Name	<i>Melospiza melodia</i>		
		AOU Code	SOSP	AOU #	581.0
First Date Recorded		NA – 16 Aug			
Last Date Recorded		NA – NA			
Number Of Days Recorded		NA – 1			
Highest Estimated Total		NA – 1 on 16 Aug			
Bird Days		0 – 1		Number Banded	
	MALE	FEMALE	UNKNOWN	TOTAL	
UNKNOWN			0 – 1	0 – 1	
TOTAL			0 – 1	0 - 1	

Species	White Throated Sparrow	Latin Name	<i>Zonotrichia albicollis</i>		
		AOU Code	WTSP	AOU #	558.0
First Date Recorded		15 May – 22 Jul			
Last Date Recorded		6 Jun – 21 Sep			
Number Of Days Recorded		21 – 47			
Highest Estimated Total		8 on 6 Jun – 8 on 10 Sep			
Bird Days		90 – 89		Number Banded	
	MALE	FEMALE	UNKNOWN	TOTAL	
AFTER HATCH YEAR	1 – 0		6 – 7	7 – 7	
AFTER SECOND YEAR			3 – 0	3 – 0	
SECOND YEAR			3 – 0	3 – 0	
HATCH YEAR			0 – 18	0 – 18	
UNKNOWN			0 – 2	0 – 2	
TOTAL	1 – 0		12 – 27	13 - 27	

Species	Gambel's White Crowned Sparrow	Latin Name	<i>Zonotrichia leucophrys gambelii</i>				
		AOU Code	GWCS	AOU #	555.0		
First Date Recorded		25 Apr – 10 Aug					
Last Date Recorded		26 May – 15 Sep					
Number Of Days Recorded		22 – 17					
Highest Estimated Total		74 on 7 May – 4 on 2 Sep					
Bird Days		533 – 33		Number Banded		269 - 13	
		MALE	FEMALE	UNKNOWN	TOTAL		
AFTER HATCH YEAR				268 – 3	268 – 3		
SECOND YEAR				1 - 0	1 – 0		
HATCH YEAR				0 – 10	0 - 10		
TOTAL				269 – 13	269 - 13		

Species	Golden Crowned Sparrow	Latin Name	<i>Zonotrichia atricapilla</i>				
		AOU Code	GCSP	AOU #	557.0		
First Date Recorded		6 May – NA					
Last Date Recorded		12 May – NA					
Number Of Days Recorded		5 – NA					
Highest Estimated Total		4 on 10 May – NA					
Bird Days		10 – 0		Number Banded		4 – 0	
		MALE	FEMALE	UNKNOWN	TOTAL		
AFTER HATCH YEAR				4 – 0	4 – 0		
TOTAL				4 – 0	4 - 0		

Species	"Slate Colored" Dark Eyed Junco	Latin Name	<i>Junco hyemalis</i>				
		AOU Code	SCJU	AOU #	567.0		
First Date Recorded		24 Apr – 22 Jul					
Last Date Recorded		6 Jun – 23 Sep					
Number Of Days Recorded		39 – 42					
Highest Estimated Total		12 on 30 Apr – 71 on 22 Sep					
Bird Days		178 – 973		Number Banded		42 – 585	
		MALE	FEMALE	UNKNOWN	TOTAL		
AFTER HATCH YEAR		18 – 28	6 – 1	14 – 90	38 - 119		
AFTER SECOND YEAR		1 – 0			1 – 0		
SECOND YEAR			3 – 0		3 - 0		
HATCH YEAR		0 – 5		0 – 458	0 – 463		
UNKNOWN				0 – 3	0 – 3		
TOTAL		19 – 33	9 – 1	14 – 551	42 - 585		

Species	Lapland Longspur	Latin Name	<i>Calcarius lapponicus</i>				
		AOU Code	LALO	AOU #	536.0		
First Date Recorded		27 Apr – 29 Aug					
Last Date Recorded		19 May – 22 Sep					
Number Of Days Recorded		15 – 16					
Highest Estimated Total		60 on 8 May – 8 on 7 Sep					
Bird Days		119 – 34		Number Banded		0 - 0	

## Cardinals

Species	Rose Breasted Grosbeak	Latin Name	<i>Pheucticus ludovicianus</i>		
		AOU Code		AOU #	595.0
First Date Recorded	26 May – NA				
Last Date Recorded	27 May – NA				
Number Of Days Recorded	2 – NA				
Highest Estimated Total	1 on both days – NA				
Bird Days	2 – 0		Number Banded	0 – 0	

## Blackbirds

Species	Red Winged Blackbird	Latin Name	<i>Agelaius phoeniceus</i>		
		AOU Code	RWBL	AOU #	498.0
First Date Recorded	27 Apr – 22 Jul				
Last Date Recorded	6 Jun – 18 Sep				
Number Of Days Recorded	37 – 5				
Highest Estimated Total	6 on 11, 15 May – 6 on 3 Sep				
Bird Days	79 – 14		Number Banded	7 – 0	
	MALE	FEMALE	UNKNOWN	TOTAL	
AFTER SECOND YEAR	6 – 0			6 – 0	
SECOND YEAR	1 – 0			1 – 0	
TOTAL	7 – 0			7 – 0	

Species	Rusty Blackbird	Latin Name	<i>Euphagus carolinus</i>		
		AOU Code	RUBL	AOU #	509.0
First Date Recorded	24 Apr – 22 Jul				
Last Date Recorded	28 May – 21 Sep				
Number Of Days Recorded	19 – 43				
Highest Estimated Total	34 on 27 Apr – 43 on 11 Sep				
Bird Days	210 – 324		Number Banded	37 - 17	
	MALE	FEMALE	UNKNOWN	TOTAL	
AFTER HATCH YEAR	15 – 4	21 – 4	1 – 0	37 - 8	
HATCH YEAR	0 – 4	0 – 3	0 – 2	0 - 9	
TOTAL	15 – 8	21 – 7	1 – 2	37 - 17	

Species	Brown Headed Cowbird	Latin Name	<i>Molothrus ater</i>		
		AOU Code	BHCO	AOU #	495.0
First Date Recorded	14 May – 30 Aug				
Last Date Recorded	5 Jun – NA				
Number Of Days Recorded	8 – 1				
Highest Estimated Total	1 on all days – 1 on 30 Aug				
Bird Days	8 – 1		Number Banded	0 – 0	

*Finches*

Species	Purple Finch	Latin Name	<i>Carpodacus purpureus</i>		
		AOU Code	PUFI	AOU #	517.0
First Date Recorded	25 Apr – 25 Jul				
Last Date Recorded	6 Jun – 25 Aug				
Number Of Days Recorded	39 – 16				
Highest Estimated Total	4 on 1, 17 May – 6 on 22 Aug				
Bird Days	83 – 32		Number Banded		8 - 11
	MALE	FEMALE	UNKNOWN	TOTAL	
AFTER HATCH YEAR		2 – 2	1 – 1	3 – 3	
AFTER SECOND YEAR	4 – 0	1 – 0		5 – 0	
HATCH YEAR			0 – 8	0 – 8	
TOTAL	4 – 0	3 – 2	1 – 9	8 - 11	

Species	Red Crossbill	Latin Name	<i>Loxia curvirostra</i>		
		AOU Code	RECR	AOU #	521.0
First Date Recorded	NA – 31 Jul				
Last Date Recorded	NA – NA				
Number Of Days Recorded	0 – 1				
Highest Estimated Total	NA – 8 on 31 Jul				
Bird Days	0 – 8		Number Banded		0 - 0

Species	White Winged Crossbill	Latin Name	<i>Loxia leucoptera</i>		
		AOU Code	WWCR	AOU #	522.0
First Date Recorded	3 Jun – 22 Jul				
Last Date Recorded	6 Jun – 21 Sep				
Number Of Days Recorded	4 – 56				
Highest Estimated Total	8 on 5,6 Jun – 30 on 4 Sep				
Bird Days	18 – 475		Number Banded		0 - 7
	MALE	FEMALE	UNKNOWN	TOTAL	
AFTER HATCH YEAR	0 – 2	0 – 2		0 – 4	
AFTER SECOND YEAR	0 – 1			0 – 1	
HATCH YEAR			0 – 2	0 – 2	
TOTAL	0 – 3	0 – 2	0 – 2	0 - 7	

Species	Common Redpoll	Latin Name	<i>Carduelis flammea</i>		
		AOU Code	CORE	AOU #	528.0
First Date Recorded	25 Apr – NA				
Last Date Recorded	18 May – NA				
Number Of Days Recorded	10 – NA				
Highest Estimated Total	6 on 29 Apr – NA				
Bird Days	21 – 0		Number Banded		2 - 0
	MALE	FEMALE	UNKNOWN	TOTAL	
AFTER HATCH YEAR		2 – 0		2 – 0	
TOTAL		2 – 0		2 - 0	

<b>Species</b>	Pine Siskin	<b>Latin Name</b>	<i>Cardeulis pinus</i>		
		<b>AOU Code</b>	PISI	<b>AOU #</b>	533.0
<b>First Date Recorded</b>		16 May – 29 Jul			
<b>Last Date Recorded</b>		6 Jun- 17 Sep			
<b>Number Of Days Recorded</b>		9 – 14			
<b>Highest Estimated Total</b>		3 on 18 May – 4 on 29 Aug			
<b>Bird Days</b>	13 – 23	<b>Number Banded</b>	0 - 0		