McIntyre Marsh Bird Banding Station Final Report 2014





Ben Schonewille - Station Manager Society of Yukon Bird Observatories February 2015 The 2014 operation of the McIntyre Marsh Bird Banding Station was made possible due to support and financial contributions from the following organizations.



Environment Canada

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Cover Photo: male Myrtle Wabler (Photo: Ben Schonewille)

The McIntyre Marsh Bird Banding Station is a project of the **Society of Yukon Bird Observatories** (SOYBO; PO Box 30056, Whitehorse, YT, Y1A 5M2). SOYBO was established during 2010 to formalize the operation of the Yukon Bird Observatories. The objectives of SOYBO are: (1) contribute to the conservation of migratory birds in western North America, (2) to make the public aware of the avifauna of the Yukon and educate the public, and, (3) to work with other societies, organizations and individuals with similar objectives. For further information, email – teslin.bird.banding@gmail.com or visit http://yukonbirdobservatories.org

SUMMARY

The Yukon Bird Observatories are the northernmost member stations within the Canadian Migration Monitoring Network and are the only stations located within the core of Canada's western Boreal Forest. Although the McIntyre Marsh station does not currently follow a formalized monitoring protocol as is done at the other field stations (Teslin Lake and Albert Creek), the station continues to collect data on migratory birds and increased the public's awareness of the Yukon's bird life.

The McIntyre Marsh Bird Banding Station completed its sixth consecutive year of spring migration monitoring in 2014. The field station operated for a total of 26 days between April 26 and June 2 for the most part following the same procedures used at the site since 2009 although there were some changes in the placement of the mist nets.

Crews followed standard methods to mist net, handle, band and record information from captured birds. They banded a total of 1,175 birds of 37 species with 2,691 net hours (43.7 birds/100 net hours). The top 5 species banded included Myrtle Warbler (229), Wilson's Warbler (224), Violet-green Sallow (157), Tree Swallow (134) and Ruby-crowned Kinglet (56); collectively, these species accounted for 68% of all birds banded.

Noteworthy results from 2014 included:

- The number of birds banded was near average and the birds captured per 100 net hours was the lowest since the station began operation during 2009.
- Species banded in particular high numbers included Myrtle Warbler, Wilson's Warbler and Violet-green Swallow whereas White-crowned Sparrow and Slate-colored Junco were banded in numbers which were far below average.
- The banding station continues to be a productive site for capturing swallows. A total of 315 swallows of 3 species (Violet-green, Tree and Bank) were banded and two additional species were observed (Cliff, Barn). Collectively, a total of 1,150 swallows have been banded at the station since 2009.
- No new species were banded at the station although two new species (Common Merganser and American Crow) were added to the list of species observed at the site since 2009.
- Since 2009, a total of 7,904 birds of 62 taxa have been banded at the station and 114 taxa have been observed.
- A total of 18 volunteers spent a total of 471.75 hours at the observatory and a total of 420 individuals (including 12 school groups) visited the observatory totaling 954 visitor hours.

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1.0 Introduction

This report describes methods and results of work done at the McIntyre Marsh Bird Banding Station from April 18 to June 1, 2014, the sixth consecutive year of spring migration monitoring at the site. Activities during 2014 mirrored that of previous years and no new activities were conducted at the station during 2014.

Previous annual reports and additional information on the station can be found on the Society of Yukon Bird Observatories website: www.yukonbirdobservatories.org

1.1 Background

The station collects information on birds which is shared through an international bird banding database (Canadian Wildlife Service Bird Banding Office and USGS Bird Banding Laboratory), Society of Yukon Bird Observatories annual station reports, and other publications. During 2014, the Yukon Bird Observatories (Teslin Lake and Albert Creek) were granted full membership status to the Canadian Migration Monitoring Network (CMMN). The CMMN is a nationwide network of 26 membership stations for across Canada who collect standardized bird monitoring data and collaborate on research projects. The Yukon Bird Observatories are the northernmost stations in the network and are the only stations located within the core of Canada's western Boreal Forest. Although the station at McIntyre Marsh is not a member station of the CMMN, the activities at the station directly support the standardized operation of Teslin Lake and Albert Creek by providing training opportunities for volunteers and by increasing the public's awareness of the Yukon Bird Observatories.

Many of the birds banded and observed at McIntyre Marsh are highly migratory, spending the winter months as far south as Central and South America. In addition to the potential knowledge gained from band recoveries, the observatory also continues to gather baseline data of birds (and their migration) in the Whitehorse region and the Yukon as a whole. Due to the large landmass of the territory, and the relatively few bird biologists and advanced birders in the Yukon, there is still a great deal to be learned regarding the bird life of the Yukon.

Due to the close proximity to downtown Whitehorse, the banding station also provides a wildlife viewing opportunity where the public, volunteers and students can take part in a unique, community based research project. Across the Yukon (and the world), there are numerous people who have an interest in birds; however, many find it a daunting task to learn the various species. For such people, a visit to the banding station can be extremely rewarding as they often have the opportunity to view a wide variety of bird species up close. Many of these species are very difficult to observe naturally; however, through the use of mist nets, the highly trained individuals working at the station have the ability to identify these species and allow the public to view them up close.

1.2 Goals of the McIntyre Marsh Bird Banding Station

The goals of the McIntyre Marsh Bird Banding Station are to:

- Gather baseline information on birds and bird migration in the Whitehorse area.
- Test the feasibility of operating a full scale bird observatory at the site.
- Conduct and participate in specific studies such as feather collecting for stable isotope analysis and color banding.
- Provide a setting for the public including school groups to learn about birds and bird migration.
- Provide training opportunities for students and volunteers.
- Provide a unique wildlife viewing opportunity in the community of Whitehorse.

1.3 Objectives of the 2014 Season

The objectives of the 2014 field season at the McIntyre Marsh Bird Banding Station were to:

- Continue the spring migration monitoring work using previously established methods,
- Collect an additional year of bird monitoring data,
- Continue to attract the public (including school groups) to the site to learn about birds and bird migration, and,
- Compare 2014 bird migration results to the previous 5 years of similarly collected data.

1.4 Acknowledgements

The 2014 operation of the McIntyre Marsh Bird Banding Station would not have been possible without support and financial contributions from the following organizations/groups: Environment Canada (Canadian Wildlife Service), Yukon Environment (Environmental Awareness Fund), Yukon Energy and EDI Environmental Dynamics Inc. In particular, EDI provided two field ornithologists (including the Bander In Charge) to operation the station on a number of weekday mornings to allow for an increased number of school groups to visit the site. Access to the site was provided by ATCO Electric Yukon and Icy Waters Arctic Charr.

We appreciate the help from the following volunteers:

- Over 20 days Ben Schonewille
- 10 to 20 days Nick Guenette and Vesta Mather
- 5 to 10 days Shanti Morrison, Andrea Sidler and Joe Parker,
- 1 to 5 days Veronica Huggard, Tracy Allard, Gerry Musungung, Miraya, Max, Wendy Nixon, Dawn Hansen, Anne MacLeod, Cameron Eckert, Jukka Jantunen, Hilary Cooker and Barney Smith

2.0 Methods

2.1 Study Site

The station is located at the area known locally as McIntyre Marsh near the junction of the Copper Haul Road and the Fish Lake Road. McIntyre Creek flows through the marsh which has a wide braided channel with numerous areas of standing water. Vegetation in the area is primarily willow with open areas dominated by various grasses and sedges. Large trees are relatively sparse within the mist netting area and are primarily limited to a thin strip of large white spruce along the margin on the study site. A defining characteristic of the site is the presence of standing dead snags within the marsh; these are likely a result of the beaver dam impoundment of the area in the past. Beginning during the fall of 2013, the marsh was once again flooded by beavers resulting in partial abandonment of some mist net lanes and the subsequent creation of new lanes.

2.2 General Methods

As the banding station is relatively new and the activities have not yet been standardized, a detailed bird monitoring protocol has not yet been prepared. The primary method of monitoring the movement of birds through the study site is the use of mist nets for the purpose of capturing and banding birds. In 2014, the station operated with 26 mist nets, although no more than 20 were used at one time. All of the nets used were constructed of 30 mm mesh and were 12 m or 18 m (2 nets) in length. Although mist netting did not always begin at sunrise (which is standard practice for other stations), efforts were made to open the station as early as possible. The number of nets used on a daily basis was determined by a number of factors including bird activity, weather and availability of qualified personnel to assist with checking the nets. Mist nets were checked for birds every 15 to 30 minutes and all birds captured were extracted by qualified individuals. Individual birds were then placed in breathable cloth bags and transported to the central bird processing area.

Once at the processing area, all birds were identified to species and banded with a uniquely numbered leg band. A wide variety of other information was collected from each bird including; age, sex, wing length, fat score, breeding condition, bird status, banding date/time and the bander's initials. Representative photos were also taken from a portion of the birds processed. The birds are promptly released after all data is collected.

To supplement the banding data collection, incidental observations were also recorded for birds within and/or flying over the site. Using the number of birds banded, recaptured and observed, estimated totals were derived for all species observed on each of the station's operation.

As a primary goal of the study is to provide opportunities for the public to become involved, the public was able to partake where possible. Extracting and handling of birds requires extensive experience doing so and therefore the public was not able to handle the birds. However, small groups of people

were regularly taken on net rounds to allow them to view up close how birds are captured in the mist nets and extracted. The public was also allowed to actively watch the bird processing procedure and frequently asked questions about the birds and the banding process. At times, members of the public also assisted the bander by scribing the data onto the data sheets and collecting bird observations.

2.3 Public Engagement

To attract members of the public to the station, we ran biweekly advertisements in the local newspaper (Yukon News) during the month of May. Social media (Facebook) was also used extensively to attract visitors and school groups which visited the site previously were contacted to encourage revisits to the station.

3.0 Results & Discussion

3.1 Station Operation

The 2014 spring season at McIntyre Marsh included a total of 26 field days between April 18 and June 1. A total of 1,175 birds of 37 species were banded and 79 species were observed (Table 1, Table 2). The all-time total number of birds banded at McIntyre Marsh is now 7,904 birds of 62 taxa and 114 taxa have been observed (Appendix A). No new species were banded at the station during 2014 although two new species were added to the station checklist: Common Merganser and American Crow.

Table 1. Summary statistics for the 2014 spring season.

| | | _ | | Tatal Consider | | | | |
|------|----------------|-----------------------|-------|----------------|---------|-----------|--------------------|------------------------|
| Week | eek Date | Date Days Operated | | # | Species | Net Hours | #/100 Net Hours | Total Species Observed |
| 1 | 18 – 24 Apr | 1 | 0 | 0 | 0 | 0.00 | 4 | |
| 2 | 25 Apr – 1 May | 4 | 58 | 10 | 402.4 | 14.4 | 37 | |
| 3 | 2 – 8 May | 4 | 58 | 13 | 431.0 | 13.5 | 44 | |
| 4 | 9 – 15 May | 5 | 289 | 17 | 539.6 | 53.6 | 47 | |
| 5 | 16 – 22 May | 7 | 497 | 25 | 712.0 | 69.8 | 57 | |
| 6 | 23 – 29 May | 3 | 146 | 21 | 407.0 | 35.9 | 52 | |
| 7 | 30 May – 5 Jun | 2 | 127 | 22 | 199.3 | 63.7 | 47 | |
| | ALL | 26 | 1,175 | 37 | 2691.3 | 43.7 | 79 | |

Table 2. Birds banded during the 2014 spring season.

| Common Name | Latin Nama | Indivi | Individuals Banded | | |
|------------------------|------------------------|--------|--------------------|--|--|
| Common Name | Latin Name | # | # / 1,000 Net Hrs | | |
| Solitary Sandpiper | Tringa solitaria | 6 | 2.23 | | |
| Spotted Sandpiper | Actitis macularius | 5 | 1.86 | | |
| Wilson's Snipe | Gallinago delicata | 7 | 2.60 | | |
| Western Wood-Pewee | Contopus sordidulus | 1 | 0.37 | | |
| Alder Flycatcher | Empidonax alnorum | 3 | 1.11 | | |
| Hammond's Flycatcher | Empidonax hammondii | 2 | 0.74 | | |
| Say's Phoebe | Sayornis saya | 3 | 1.11 | | |
| Tree Swallow | Tachycineta bicolor | 134 | 49.79 | | |
| Violet-green Swallow | Tachycineta thalassina | 157 | 58.34 | | |
| Bank Swallow | Riparia riparia | 24 | 8.92 | | |
| Black-capped Chickadee | Poecile atricapillus | 4 | 1.49 | | |
| Boreal Chickadee | Poecile hudsonicus | 3 | 1.11 | | |
| Ruby-crowned Kinglet | Regulus calendula | 56 | 20.81 | | |
| Hermit Thrush | Catharus guttatus | 2 | 0.74 | | |
| Gray-cheeked Thrush | Catharus minimus | 3 | 1.11 | | |
| Swainson's Thrush | Catharus ustulatus | 12 | 4.46 | | |
| American Robin | Turdus migratorius | 21 | 7.80 | | |

| | | Individ | luals Banded |
|---|---------------------------|---------|-------------------|
| Common Name | Latin Name | # | # / 1,000 Net Hrs |
| Northern Waterthrush | Parkesia noveboracensis | 14 | 5.20 |
| Tennessee Warbler | Oreothlypis peregrina | 2 | 0.74 |
| Orange-crowned Warbler | Oreothlypis celata | 52 | 19.32 |
| Common Yellowthroat | Geothlypis trichas | 18 | 6.69 |
| Yellow Warbler | Setophaga petechia | 7 | 2.60 |
| Blackpoll Warbler | Setophaga striata | 15 | 5.57 |
| Yellow-rumped 'Myrtle' Warbler | Setophaga coronata | 229 | 85.09 |
| Yellow-rumped Warbler (poss. integrade) | Setophaga coronata | 1 | 0.37 |
| Wilson's Warbler | Cardellina pusilla | 224 | 83.23 |
| American Tree Sparrow | Spizella arborea | 5 | 1.86 |
| Chipping Sparrow | Spizella passerina | 19 | 7.06 |
| Savannah Sparrow | Passerculus sandwichensis | 18 | 6.69 |
| Fox Sparrow | Passerella iliaca | 3 | 1.11 |
| Lincoln's Sparrow | Melospiza lincolnii | 43 | 15.98 |
| White-crowned Sparrow | Zonotrichia leucophrys | 21 | 7.80 |
| Golden-crowned Sparrow | Zonotrichia atricapilla | 3 | 1.11 |
| Dark-eyed 'Slate-colored' Junco | Junco hyemalis | 47 | 17.46 |
| Red-winged Blackbird | Agelaius phoeniceus | 3 | 1.11 |
| Rusty Blackbird | Euphagus carolinus | 6 | 2.23 |
| Common Redpoll | Acanthis flammea | 2 | 0.74 |
| тотл | AL | 1,175 | 436.59 |

Weather conditions can largely influence the activities at the observatory (Table 3); windy conditions and periods of prolonged precipitation reduce the mist netting effort. The spring of 2014 saw mostly favorable weather conditions (temperature, wind and precipitation) that were very similar to previous years (Table 4).

Table 3. Summary of weather conditions during the 2014 spring season.

| Weather Parameter | Week | | | | | | |
|-----------------------------|------|------|------|------|------|------|------|
| weather Parameter | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Average Opening Temperature | 2.0 | -2.5 | -0.8 | 3.6 | 4.3 | 1.0 | 3.0 |
| Average Closing Temperature | 9.0 | 9.0 | 12.5 | 14.2 | 11.8 | 14.3 | 14.5 |
| Average Opening Wind | 1.0 | 1.1 | 1.0 | 1.4 | 0.5 | 0.3 | 1.5 |
| Average Closing Wind | 3.0 | 6.1 | 1.0 | 1.6 | 1.3 | 1.7 | 2.3 |
| Days with Rain | 0 | 0 | 0 | 1 | 2 | 0 | 0 |
| Days with Snow | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Table 4. Comparison of weather conditions during 2014 as compared to previous years.

| Weather Parameter | | 2010-2014 Average | | |
|-----------------------------|------|-------------------|------|------|
| weather Parameter | 2012 | 2013 | 2014 | |
| Average Opening Temperature | 4.3 | 2.5 | 1.7 | 2.8 |
| Average Closing Temperature | 9.0 | 11.1 | 12.3 | 10.8 |
| Average Opening Wind | 0.9 | 1.0 | 0.9 | 0.9 |
| Average Closing Wind | 1.9 | 1.4 | 1.6 | 1.6 |
| Days with Rain | 2 | 2 | 3 | 2.3 |
| Days with Snow | 3 | 1 | 0 | 1.3 |

3.2 Patterns in Captures

Each component of the 2014 data is summarized and presented in the following subsections; however, a summary account of the 2014 estimated total data is shown in Appendix B. Note that the estimated totals are derived on a daily basis by the Bander in Charge and incorporate all data collection components (mist netting captures and all observations) to estimate the number of birds of each species within or passing through the count area.

Among the top 15 species banded during 2014, 8 were captured in above average numbers, 3 were captured in below average numbers and 4 were captured in near average numbers (Table 5). Among the species banded in above average numbers, Myrtle and Wilson's warbler were the most notable. A total of 229 Myrtle Warblers were banded compared to the 2009-2014 average of 146 and the previous high of 212 in 2010. Wilson's Warbler banded (224) also surpassed the average banding total of 132 and the previous high of 174 in 2012. Among the species banded in below average numbers was White-crowned Sparrow with 21 banded compared to the average of 235. Capture rates of this species have been highly variable between years and have ranged from a low of 4 during 2011 to a high of 620 in 2012.

Table 5. The 10 most common bird species banded in 2014 as compared to 2009–2013 totals (numbers in brackets indicate the annual ranking in birds banded. The prefix "T" indicates a tied in annual banding totals; data from 2009 excluded due to inadequate duration of data collection for comparisons between years.

| Species | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2009–2014 Average |
|------------------------|----------|---------|---------|---------|---------|---------|----------------------|
| Myrtle Warbler | 229 (1) | 146 (4) | 179 (4) | 54 (3) | 212 (3) | 70 (5) | 146 |
| Wilson's Warbler | 224 (2) | 135 (3) | 174 (5) | 57 (2) | 144 (4) | 57 (8) | 132 |
| Violet-green Swallow | 157 (3) | 146 (2) | 116 (7) | 36 (4) | 22 (13) | 103 (2) | 97 |
| Tree Swallow | 134 (4) | 35 (12) | 235 (3) | 18 (8) | 1 (31) | 89 (3) | 85 |
| Ruby-crowned Kinglet | 56 (5) | 88 (7) | 64 (8) | 15 (9) | 25 (12) | 5 (23) | 42 |
| Orange-crowned Warbler | 52 (6) | 98 (6) | 25 (14) | 20 (7) | 16 (14) | 9 (15) | 37 |
| Slate-colored Junco | 47 (7) | 18 (16) | 490 (2) | 9 (13) | 247 (2) | 77 (4) | 148 |
| Lincoln's Sparrow | 43 (8) | 59 (8) | 55 (9) | 12 (11) | 75 (7) | 25 (12) | 45 |
| Bank Swallow | 24 (9) | 2 (T28) | 30 (12) | 0 (-) | 0 (-) | 0 (-) | 19 |
| American Robin | 21 (T10) | 11 (20) | 11 (17) | 0 (-) | 15 (16) | 6 (21) | 13 |
| White-crowned Sparrow | 21 (T10) | 310 (1) | 620 (1) | 4 (17) | 342 (1) | 113 (1) | 235 |
| Chipping Sparrow | 19 (12) | 1 (T37) | 8 (T20) | 0 (-) | 5 (T23) | 0 (-) | 8 |
| Common Yellowthroat | 18 (T13) | 42 (10) | 27 (13) | 21 (6) | 53 (9) | 26 (11) | 31 |
| Savannah Sparrow | 18 (T13) | 104 (5) | 43 (10) | 10 (12) | 83 (6) | 58 (7) | 53 |
| Blackpoll Warbler | 15 (15) | 30 (13) | 10 (18) | 14 (10) | 5 (23) | 0 (-) | 15 |

The peak period for mist netting occurred during week 5 (May 16 to 22) due to high captures of 4 species: Myrtle Warbler, Wilson's Warbler, Violet-green Swallow and Tree Swallow (Figure 1). During this period, the highest daily banding totals included 136 birds on the May 21 and 125 on May 18. These days coincided with cool temperatures and periods of light rain which appeared to attract large numbers of insectivorous birds to the productive feeding habitats within the marsh.

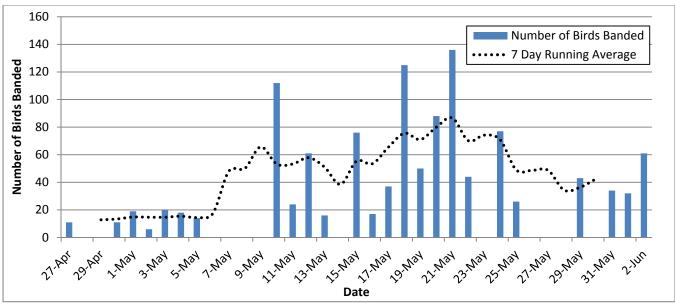


Figure 1. Summary of birds banded per day during the spring of 2014.

The overall number of birds banded during 2014 (1,175) was near average (1,317) compared to previous years. However, when the birds/100 net hours are considered, the 2014 value of 43.7 birds/100 net hours was the lowest since the station began operation during 2009 (Figure 2).

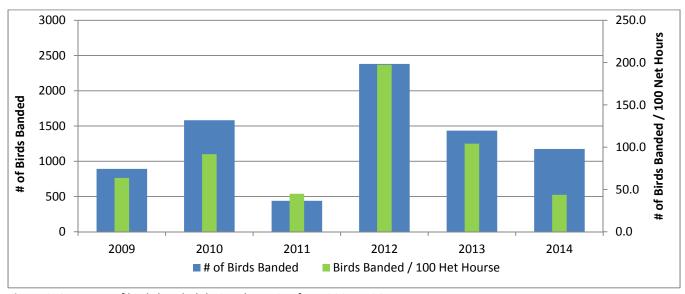


Figure 2. Summary of birds banded during the spring from 2001 to 2014.

3.3 Migration Timing

Generalized migration timing for temperate, neotropical and irruptive migrants/residents during the spring of 2014 is presented in Figure 3¹. In spring, there is a notable difference in migration timing

¹ Temperate migrants are species which primarily overwinter in the temperate zone of North America (i.e., north of Mexico). Neotropical migrants include species which overwinter in the tropics (i.e., south of the USA). Irruptive migrants/residents are those species which migrate irregularly or may be year round residents in the Yukon.

between temperate and neotropical migrants, with the latter typically arriving later in the season. This is presumably due to a number of factors including diet (most neotropical migrants are insect eaters as compared to seed eaters) and distance required for migration (temperate migrants winter closer). The generalized migration timing indicates that the peak of neotropical migrants occurred during mid to late May which is typical for this group of species. The number of temperate migrants banded were very low during 2014 and this was reflected by the lack of a peak in the timing of this group of species

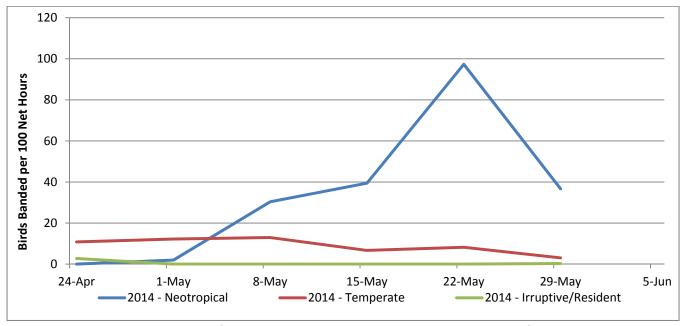


Figure 3. Generalized migration timing for species groups at McIntyre Marsh during the spring of 2014.

For species which are encountered regularly during spring migration, it is possible to investigate arrival dates between years through a combination of available banding and general observation data (Table 5). Most species show a high degree of consistency in arrival dates between years; however, there is a small degree of variation which is likely a result of varying weather conditions between years. With McIntyre Marsh not operating daily during the migration period, it is difficult to make comparisons in arrival dates between years. However, there is still some utility in making such comparisons; for example, Yellow-rumped Warbler arrived 4 days earlier than average during 2014.

Table 6. Arrival dates for common species at McIntyre Marsh from 2009 to 2014.

| Cuasias | Spring Arrival Dates | | | | | | | | |
|---------------------------|----------------------|----------|----------|----------|----------|----------|----------|--|--|
| Species | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2009 – | | |
| Station Opening Date | | 27 April | 20 April | 22 April | 18 April | 18 April | 2014 AVG | | |
| Solitary Sandpiper | 10 May | 8 May | 4 May | 14 May | 10 May | 9 May | 9 May | | |
| Lesser Yellowlegs | 4 May | 4 May | 5 May | 5 May | 28 April | 3 May | 3 May | | |
| Hammond's Flycatcher | 3 May | 6 May | 6 May | 5 May | 24 April | 2 May | 2 May | | |
| Swainson's Thrush | 20 May | 22 May | 26 May | 24 May | 21 May | 27 May | 23 May | | |
| Orange-crowned Warbler | 12 May | 11 May | 2 May | 14 May | 1 May | 12 May | 8 May | | |
| Yellow Warbler | 22 May | 23 May | 26 May | 22 May | 18 May | 24 May | 22 May | | |
| Yellow-rumped Warbler | 27 Apr | 5 May | 20 Apr | 30 Apr | 24 April | 2 May | 28 Apr | | |
| Blackpoll Warbler | 17 May | 22 May | 20 May | 22 May | 20 May | 27 May | 21 May | | |
| Northern Waterthrush | 17 May | 22 May | 15 May | 15 May | 18 May | 13 May | 16 May | | |
| Common Yellowthroat | 21 May | 23 May | 26 May | 22 May | 18 May | 23 May | 22 May | | |
| Wilson's Warbler | 4 May | 7 May | 14 May | 14 May | 8 May | 3 May | 8 May | | |
| Savannah Sparrow | 27 Apr | 6 May | 4 May | 14 May | 28 April | 2 May | 3 May | | |
| Fox Sparrow | 26 Apr | 8 May | 20 Apr | 15 May | 23 April | 3 May | 30 Apr | | |
| Lincoln's Sparrow | 26 Apr | 6 May | 20 Apr | 1 May | 24 April | 2 May | 28 Apr | | |
| White-crowned Sparrow | 26 Apr | 5 May | 20 Apr | 2 May | 23 April | 2 May | 28 apr | | |
| Golden-crowned Sparrow | 26 Apr | 5 May | 28 Apr | 14 May | 24 April | 2 May | 1 May | | |
| Lapland Longspur | - | 8 May | 28 Apr | 14 May | 1 May | 18 April | 1 May | | |
| Red-winged Blackbird | 10 May | 8 May | 12 May | 1 May | 2 May | 2 May | 5 May | | |
| Rusty Blackbird | 1 May | 8 May | 24 Apr | 1 May | 23 April | 2 May | 29 Apr | | |

3.4 Band Repeats, Returns & Recoveries

Band returns (individuals banded at the site in previous years) typically represent individuals which breed within the study site as the likelihood of re-trapping migrants is relatively low. During 2014, the station had 25 band returns representing 12 species (Table 7). Species very well represented in the band returns provide an indication of the breeding birds at McIntyre Marsh; Common Yellowthroat, and Myrtle Warbler are among the most common breeding bird species within and adjacent to the study site and this is reflected by the number of band returns for these species. The oldest band return during 2014 was a Common Yellowthroat recaptured on June 1 which was originally banded as an after second year male on June 1, 2009; this individual was born in 2007 or earlier making it at least 7 years old during 2014.

Table 7. Band returns at McIntyre Marsh during the spring of 2014.

| Curatas | David Noveleau | Band | Recaptured | |
|------------------------|----------------|-------------|------------|-------------|
| Species | Band Number | Date | Age – Sex | Date |
| Solitary Sandpiper | 1981-06406 | 31 May 2012 | AHY – U | 18 May 2014 |
| Wilson's Snipe | 1063-59516 | 9 May 2013 | AHY – U | 13 May 2014 |
| Wilson's Snipe | 1063-59535 | 27 May 2013 | AHY – U | 19 May 2014 |
| Tree Swallow | 2511-90123 | 15 May 2012 | AHY – M | 2 May 2014 |
| Violet-green Swallow | 2560-33160 | 11 May 2013 | AHY – M | 22 May 2014 |
| Black-capped Chickadee | 2560-33238 | 14 May 2013 | SY – U | 10 May 2014 |
| Ruby-crowned Kinglet | 2570-10787 | 29 Apr 2012 | ASY – M | 20 May 2013 |
| American Robin | 1212-58366 | 14 May 2012 | SY - M | 11 May 2014 |
| American Robin | 1232-58815 | 25 May 2013 | SY – M | 13 May 2014 |
| American Robin | 1232-58817 | 25 May 2013 | SY – F | 13 May 2014 |
| Myrtle Warbler | 2610-63328 | 18 May 2012 | AHY – M | 11 May 2014 |
| Myrtle Warbler | 2610-63361 | 26 May 2012 | AHY – M | 2 May 2014 |
| Myrtle Warbler | 2610-63373 | 28 May 2012 | AHY – F | 24 May 2014 |
| Myrtle Warbler | 2560-33543 | 27 May 2013 | ASY – M | 18 May 2014 |
| Common Yellowthroat | 2560-32157 | 1 Jun 2009 | ASY – M | 1 Jun 2014 |
| Common Yellowthroat | 2610-63353 | 26 May 2012 | ASY – M | 31 May 2014 |
| Common Yellowthroat | 2610-63367 | 27 May 2012 | AHY – M | 29 May 2014 |
| Common Yellowthroat | 2560-33454 | 25 May 2013 | ASY – M | 21 May 2014 |
| Common Yellowthroat | 2560-33545 | 27 May 2013 | ASY – F | 2 Jun 2014 |
| Northern Waterthrush | 2560-33576 | 2 Jun 2013 | SY – U | 22 May 2014 |
| Lincoln's Sparrow | 2511-90690 | 22 May 2013 | SY – U | 19 May 2014 |
| Lincoln's Sparrow | 2511-90729 | 27 May 2013 | AHY – M | 18 May 2014 |
| Slate-colored Junco | 2511-90315 | 29 May 2012 | SY – M | 25 May 2014 |
| Slate-colored Junco | 2511-90669 | 22 May 2013 | AHY – F | 4 May 2014 |
| Slate-colored Junco | 2511-90670 | 22 May 2013 | SY – M | 2 May 2014 |

Long distance (foreign) band recoveries those where a bird banding at the station is recaptured or recovered in another location or vice versa; to date, there have been three such recoveries of birds banded at McIntyre Marsh as outlined below.

- A Yellow-rumped "Myrtle" Warbler banded in Portland, Oregon in March 2008 was recaptured at McIntyre Marsh on May 4, 2009.
- An American Green-winged Teal banded at McIntyre Marsh on May 14, 2009 was shot by a hunter near Los Banos, California on October 28, 2009.
- A Yellow-rumped "Myrtle" Warbler banded at the Teslin Lake Bird Observatory near Teslin, YT on September 7, 2010 was recaptured at McIntyre Marsh on May 25, 2013.

3.5 Visitors and Volunteers

The banding station was very successful in attracting visitors during 2014, in total 420 different individuals visited the site and totaled nearly 1,000 visitor hours (Table 8). Included in the visitor totals were 12 school groups from the Whitehorse area and a group from Copper Ridge Place who visited the site. These visitor numbers are slightly higher than during 2012 and 2013 due to the increased advertising of the project and the increased number of school groups hosted at the station. Overall,

these visitor rates are very high as compared to the Teslin Lake and Albert Creek bird observatories which typically total 100 to 150 visitor hours each per year.

Table 8. Summary of paid, volunteer and visitor hours at McIntyre Marsh during 2014.

| Paid | | Volunt | eers | Visitors | |
|------------------|-------|---------------------|--------|------------------|-------|
| # of Individuals | Hours | # of Individuals | Hours | # of Individuals | Hours |
| 12 | 99.25 | 18 | 471.75 | 420 | 954 |

During 2013 and 2014, the operation of the demonstration site was completed primarily by volunteers. Aside from providing visitor opportunities, the station also provides an opportunity for volunteer involvement. Individuals willing to attend the station on a number of occasions have the opportunity to receive training in the techniques used to capture and band birds (under the supervision of permitted/qualified individuals). Note that the paid individuals who operated the station were a result of a partnership with EDI Environmental Dynamics Inc. who provided two staff biologists (including the Bander In Charge) to operate the station on 8 weekday mornings to host local school groups.

The Society of Yukon Bird Observatories has begun to use social media to promote the field stations (including McIntyre Marsh) by providing regular station updates and photos of birds banded and observed. A Facebook group page (Yukon Bird Observatories) now has 243 members and the society's website (www.yukonbirdobservatories.org) had 298 page views by 126 unique visitors during May 2014 including 78 page views on the McIntyre Marsh project page.

4.0 Conclusion

The bird monitoring data collected at the demonstration site have continued to reinforce that McIntyre Marsh is an important stopover and breeding habitat for migratory birds within the City of Whitehorse. The productive marsh habitat and diversity of nearby habitats provide suitable habitat for a high diversity of birds. Although the total number of birds banded is less than that of the Teslin Lake and Albert Creek bird observatories, these results are not directly comparable. McIntyre Marsh does not operate on daily basis and if the protocols from the other observatories were to be implemented at McIntyre Marsh, the number and diversity of birds banded would likely increase substantially and the utility of the data increased.

The number of visitors and total visit hours totaled at the site in 2014 are representative of the value of the banding station as a public education and training opportunity. Individuals who visit the site leave with an increased understanding of the Yukon's bird life and a level of environmental stewardship which has a positive effect well beyond the conservation of birds. For children who visit the site, having the opportunity to see songbirds "up close and personal" often has a lasting effect and may lead to a future appreciation of not only birds, but our natural surroundings as a whole. In recent years, the station has been successful in attracting a small number of interested teenagers who have developed as capable volunteers at the station.

For 2015, it is hoped that adequate personnel and resources can once again be made available for the operation of the banding station during the spring migration season. If possible, it would be advantageous to operate the station on more days during the migration period to boost the number of visitors and school groups which may visit the site. More extensive coverage would also increase the utility of the bird monitoring data collected. Efforts should also be made to include some sort of standardized monitoring protocol for the station. This may include the collection of observations outside of the immediate mist netting area through methods such as a fixed duration census route or point count locations.

4.1 Recommendations

The following list summarizes a number of recommendations for the future operation of the McIntyre Marsh Bird Banding Station.

- Continue operation the banding station during the spring of 2015 and maximize the number of days operated and the subsequent number of visitors.
- Make efforts to attract additional volunteers for training purposes with the goal of increasing
 the base of qualified volunteers in the Yukon who can assist with operations at the Teslin Lake
 and Albert Creek bird observatories.

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Appendix A – Species Checklist

Table A1. Summary of birds banded and observed at McIntyre Marsh from 2009 to 2014.

| Species | and observed | TOTAL BANDED | | | | | |
|-----------------------------|--------------|--------------|------|------|----------|------|---------------|
| | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | (2009 - 2014) |
| Horned Grebe | | ✓ | | | | | |
| Common Loon | | | | ✓ | | | |
| Greater White-fronted Goose | ✓ | | | ✓ | ✓ | ✓ | |
| Canada Goose | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| Trumpeter Swan | ✓ | | ✓ | ✓ | ✓ | ✓ | |
| Tundra Swan | ✓ | | ✓ | ✓ | ✓ | ✓ | |
| American Wigeon | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| Mallard | ✓ | 1 | ✓ | ✓ | ✓ | ✓ | 1 |
| Gadwall | ✓ | | | | | | |
| Northern Shoveler | | ✓ | ✓ | ✓ | ✓ | ✓ | |
| Northern Pintail | ✓ | ✓ | | ✓ | ✓ | | |
| American Green-winged Teal | 4 | ✓ | ✓ | ✓ | ✓ | ✓ | 4 |
| Blue-winged Teal | | | ✓ | ✓ | | ✓ | |
| Lesser Scaup | | | | ✓ | | | |
| Bufflehead | ✓ | | ✓ | ✓ | | ✓ | |
| Common Goldeneye | ✓ | ✓ | | | | | |
| Barrow's Goldeneye | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| Common Merganser | | | | | | ✓ | |
| Osprey | ✓ | | | ✓ | | | |
| Bald Eagle | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| Northern Harrier | ✓ | ✓ | ✓ | 1 | ✓ | ✓ | 1 |
| Sharp-shinned Hawk | 1 | 3 | ✓ | 1 | ✓ | ✓ | 5 |
| Northern Goshawk | ✓ | | ✓ | | ✓ | | |
| Red-tailed Hawk | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| Rough-legged Hawk | ✓ | | ✓ | | | | |
| Golden Eagle | | | ✓ | | | ✓ | |
| American Kestrel | | ✓ | | ✓ | ✓ | ✓ | |
| Merlin | ✓ | | ✓ | ✓ | ✓ | | |
| Peregrine Falcon | | | | ✓ | | | |
| Ruffed Grouse | | ✓ | | ✓ | | ✓ | |
| Semi-palmated Plover | ✓ | | ✓ | | | | |
| Greater Yellowlegs | | | | | ✓ | | |
| Lesser Yellowlegs | 1 | ✓ | ✓ | ✓ | ✓ | ✓ | 1 |
| Solitary Sandpiper | 7 | 7 | 6 | 7 | 1 | 6 | 34 |
| Spotted Sandpiper | | 1 | ✓ | | √ | 5 | 6 |
| Semi-palmated Sandpiper | ✓ | | | | | | |
| Long-billed Dowitcher | | | | ✓ | ✓ | | |
| Least Sandpiper | | | | | 1 | | 1 |
| Pectoral Sandpiper | ✓ | | ✓ | ✓ | 2 | | 2 |
| Upland Sandpiper | | | | ✓ | | | |

| | | TOTAL BANDED | | | | | |
|--------------------------------|------|--------------|----------|----------|------|------|---------------|
| Species | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | (2009 - 2014) |
| Wilson's Snipe | 5 | 8 | 2 | 5 | 15 | 7 | 42 |
| Bonaparte's Gull | ✓ | | ✓ | ✓ | ✓ | ✓ | |
| Mew Gull | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| Herring Gull | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| Arctic Tern | | | | | ✓ | | |
| Great Horned Owl | ✓ | | | ✓ | ✓ | ✓ | |
| Boreal Owl | | | ✓ | | | | |
| Belted Kingfisher | 1 | 1 | 1 | ✓ | ✓ | ✓ | 3 |
| Yellow-bellied Sapsucker | | | | ✓ | ✓ | | |
| Hairy Woodpecker | ✓ | ✓ | | | | | |
| American Three-toed Woodpecker | | ✓ | ✓ | | | | |
| Northern Flicker | ✓ | ✓ | ✓ | ✓ | 1 | ✓ | 1 |
| Olive-sided Flycatcher | ✓ | 1 | 2 | ✓ | 2 | ✓ | 5 |
| Western Wood-Pewee | ✓ | | | ✓ | 2 | 1 | 3 |
| Alder Flycatcher | | ✓ | 3 | 8 | 1 | 3 | 14 |
| Yellow-bellied Flycatcher | | | | ✓ | | | |
| Hammond's Flycatcher | ✓ | 6 | ✓ | 3 | 7 | 2 | 18 |
| Say's Phoebe | ✓ | | √ | 1 | ✓ | 3 | 4 |
| Northern Shrike | 1 | | | | | | 1 |
| Warbling Vireo | | | | | 1 | ✓ | 1 |
| Gray Jay | ✓ | ✓ | ✓ | ✓ | 4 | ✓ | 4 |
| Black-billed Magpie | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| American Crow | | | | | | ✓ | |
| Common Raven | ✓ | ✓ | ✓ | √ | ✓ | ✓ | |
| Tree Swallow | 89 | 1 | 18 | 235 | 35 | 134 | 512 |
| Violet-green Swallow | 103 | 22 | 36 | 116 | 146 | 157 | 580 |
| Bank Swallow | ✓ | ✓ | ✓ | 30 | 2 | 24 | 56 |
| Cliff Swallow | ✓ | ✓ | ✓ | | ✓ | ✓ | |
| Barn Swallow | ✓ | ✓ | | 1 | 1 | ✓ | 2 |
| Black-capped Chickadee | 8 | 4 | 2 | 7 | 3 | 4 | 28 |
| Mountain Chickadee | 2 | | | | | | 2 |
| Boreal Chickadee | 9 | 1 | 9 | 1 | ✓ | 3 | 23 |
| Red-breasted Nuthatch | | | ✓ | | ✓ | ✓ | |
| Golden-crowned Kinglet | | ✓ | ✓ | ✓ | | | |
| Ruby-crowned Kinglet | 5 | 25 | 15 | 64 | 88 | 56 | 253 |
| Townsend's Solitaire | | | | | | | |
| Gray-cheeked Thrush | | ✓ | 1 | 1 | 1 | 3 | 6 |
| Swainson's Thrush | 1 | 3 | | 3 | 5 | 12 | 24 |
| Hermit Thrush | | | | 1 | 1 | 2 | 4 |
| American Robin | 6 | 15 | ✓ | 11 | 11 | 21 | 64 |
| Varied Thrush | ✓ | 2 | ✓ | 15 | 14 | ✓ | 31 |

| | | TOTAL BANDED | | | | | |
|------------------------------------|------|--------------|----------|-------|----------|----------|---------------|
| Species | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | (2009 - 2014) |
| American Pipit | 4 | 6 | √ | 10 | 3 | √ | 23 |
| Bohemian Waxwing | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| Tennessee Warbler | | 2 | ✓ | 1 | 2 | 2 | 7 |
| Orange-crowned Warbler | 9 | 16 | 20 | 25 | 98 | 52 | 220 |
| Yellow Warbler | 3 | 8 | 27 | 23 | 19 | 7 | 87 |
| Yellow-rumped 'Myrtle' Warbler | 70 | 212 | 54 | 179 | 133 | 229 | 877 |
| Yellow -rumper 'Integrade' Warbler | 2 | | | 1 | | 1 | 4 |
| Townsend's Warbler | | | ✓ | ✓ | 2 | ✓ | 2 |
| Blackpoll Warbler | | 5 | 14 | 10 | 30 | 15 | 74 |
| Northern Waterthrush | 8 | 16 | 7 | 6 | 23 | 14 | 74 |
| American Redstart | | | | ✓ | | | |
| Common Yellowthroat | 26 | 53 | 21 | 27 | 42 | 18 | 187 |
| Wilson's Warbler | 57 | 144 | 57 | 174 | 135 | 224 | 791 |
| Song Sparrow | | | 1 | | | | 1 |
| Lapland Longspur | 39 | 1 | ✓ | ✓ | 2 | | 42 |
| American Tree Sparrow | 63 | 75 | 3 | 151 | 45 | 5 | 342 |
| Chipping Sparrow | | 5 | ✓ | 8 | 1 | 19 | 33 |
| Savannah Sparrow | 58 | 83 | 10 | 43 | 104 | 18 | 316 |
| Fox Sparrow | 6 | 109 | ✓ | 7 | 4 | 3 | 129 |
| Lincoln's Sparrow | 25 | 75 | 12 | 55 | 59 | 43 | 269 |
| White-crowned Sparrow | 113 | 342 | 4 | 620 | 310 | 21 | 1,410 |
| Golden-crowned Sparrow | 18 | 34 | 1 | 33 | 37 | 3 | 126 |
| Dark-eyed 'Slate-colored' Junco | 77 | 247 | 9 | 490 | 18 | 47 | 888 |
| Dark-eyed 'Oregon' Junco | | | | 1 | | | 1 |
| Rusty Blackbird | 25 | 11 | 2 | 1 | 4 | 6 | 49 |
| Red-winged Blackbird | 5 | 3 | 2 | 1 | 2 | 3 | 16 |
| Brown-headed Cowbird | | | ✓ | | ✓ | | |
| Purple Finch | 1 | | | 3 | ✓ | 2 | 6 |
| Red Crossbill | ✓ | | ✓ | | | ✓ | |
| White-winged Crossbill | ✓ | | 4 | | ✓ | ✓ | 4 |
| Common Redpoll | 31 | 33 | 97 | 1 | 17 | ✓ | 79 |
| Hoary Redpoll | | 1 | | | | | 1 |
| Pine Siskin | 3 | ✓ | ✓ | ✓ | √ | | 3 |
| | | | | | | | |
| TOTAL BIRDS BANDED | 886 | 1,582 | 440 | 2,381 | 1,434 | 1,175 | 7,904 |
| TOTAL SPECIES BANDED | 36 | 38 | 29 | 42 | 44 | 37 | 62 |

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Appendix B – Daily Species Total Summary

 Table B1. Summary of McIntyre Marsh daily species total (DST) data during the spring of 2014.

| Species | # of Days | # of Bird Days | First Date | | | igh Count |
|-----------------------------|-----------|----------------|------------|--------|----|-----------|
| Greater White-fronted Goose | 1 | 7 | 2-May | - | 7 | 2-May |
| Canada Goose | 1 | 1 | 4-May | - | 1 | 4-May |
| Trumpeter Swan | 4 | 74 | 27-Apr | 16-May | 38 | 27-Apr |
| Tundra Swan | 3 | 125 | 27-Apr | 2-May | 81 | 1-May |
| American Wigeon | 8 | 16 | 27-Apr | 31-May | 4 | 24-May |
| Mallard | 25 | 397 | 26-Apr | 1-Jun | 39 | 27-Apr |
| Northern Shoveler | 3 | 13 | 12-May | 29-May | 6 | 12-May |
| American Green-winged Teal | 24 | 208 | 26-Apr | 1-Jun | 20 | 16-May |
| Blue-winged Teal | 1 | 2 | 31-May | - | 2 | 31-May |
| Bufflehead | 1 | 2 | 27-Apr | - | 2 | 27-Apr |
| Barrow's Goldeneye | 25 | 137 | 26-Apr | 1-Jun | 18 | 5-May |
| Common Merganser | 1 | 2 | 4-May | - | 2 | 4-May |
| Bald Eagle | 25 | 84 | 26-Apr | 1-Jun | 6 | 10-May |
| Northern Harrier | 4 | 4 | 1-May | 18-May | 1 | all days |
| Sharp-shinned Hawk | 3 | 3 | 1-May | 4-May | 1 | all days |
| Red-tailed Hawk | 1 | 1 | 30-Apr | - | 1 | 30-Apr |
| Golden Eagle | 1 | 1 | 3-May | - | 1 | 3-May |
| American Kestrel | 1 | 1 | 5-May | - | 1 | 5-May |
| Ruffed Grouse | 18 | 18 | 27-Apr | 29-May | 1 | all days |
| Lesser Yellowlegs | 15 | 25 | 4-May | 1-Jun | 4 | 16/17 May |
| Solitary Sandpiper | 16 | 28 | 10-May | 1-Jun | 4 | 25-May |
| Spotted Sandpiper | 7 | 16 | 19-May | 1-Jun | 4 | 31-May |
| Unidentified Peep | 1 | 65 | 24-May | - | 65 | 24-May |
| Wilson's Snipe | 21 | 119 | 1-May | 1-Jun | 10 | 19-May |
| Mew Gull | 15 | 56 | 1-May | 1-Jun | 8 | 16-May |
| Herring Gull | 25 | 151 | 26-Apr | 1-Jun | 11 | 12-May |
| Bonaprte's Gull | 1 | 1 | 4-May | - | 1 | 4-May |
| Great Horned Owl | 1 | 1 | 17-May | - | 1 | 17-May |
| Belted Kingfisher | 14 | 24 | 3-May | 1-Jun | 3 | 19-May |
| Northern Flicker | 18 | 26 | 4-May | 31-May | 2 | many days |
| Integrade Flicker | 1 | 1 | 1-May | - | 1 | 1-May |
| Unidentified Woodpecker | 2 | 2 | 3-May | 24-May | 1 | both days |
| Olive-sided Flycatcher | 2 | 3 | 17-May | 20-May | 2 | 17-May |
| Western Wood-Pewee | 6 | 6 | 10-May | 1-Jun | 1 | all days |
| Alder Flycatcher | 2 | 4 | 29-May | 31-May | 3 | 29-May |
| Hammond's Flycatcher | 14 | 20 | 3-May | 1-Jun | 3 | 5/13 May |
| Say's Phoebe | 3 | 3 | 11-May | 22-May | 1 | all days |
| Warbling Vireo | 5 | 6 | 19-May | 1-Jun | 2 | 29-May |
| Gray Jay | 10 | 13 | 5-May | 1-Jun | 3 | 1-Jun |
| Black-billed Magpie | 2 | 2 | 29-May | 1-Jun | 1 | both days |

| Species | # of Days | # of Bird Days | First Date | Last Date | ate High Count | |
|------------------------------------|-----------|----------------|------------|-----------|----------------|-----------|
| American Crow | 1 | 1 | 24-May | - | 1 | 24-May |
| Common Raven | 25 | 59 | 26-Apr | 1-Jun | 6 | 2-May |
| Tree Swallow | 19 | 621 | 27-Apr | 1-Jun | 150 | 21-May |
| Violet-green Swallow | 25 | 1268 | 26-Apr | 1-Jun | 350 | 20-May |
| Bank Swallow | 7 | 73 | 19-May | 1-Jun | 35 | 31-May |
| Cliff Swallow | 6 | 33 | 10-May | 1-Jun | 18 | 31-May |
| Barn Swallow | 8 | 11 | 10-May | 31-May | 3 | 21-May |
| Black-capped Chickadee | 25 | 56 | 26-Apr | 1-Jun | 4 | many days |
| Boreal Chickadee | 8 | 11 | 27-Apr | 1-Jun | 2 | many days |
| Red-breasted Nuthatch | 1 | 1 | 2-May | - | 1 | 2-May |
| Ruby-crowned Kinglet | 25 | 130 | 26-Apr | 1-Jun | 14 | 26-Apr |
| Gray-cheeked Thrush | 4 | 5 | 12-May | 1-Jun | 2 | 24-May |
| Swainson's Thrush | 7 | 22 | 20-May | 1-Jun | 5 | 1-Jun |
| Hermit Thrush | 3 | 4 | 13-May | 19-May | 2 | 18-May |
| American Robin | 24 | 160 | 26-Apr | 1-Jun | 10 | 5-May |
| Varied Thrush | 19 | 25 | 26-Apr | 31-May | 3 | 10-May |
| American Pipit | 14 | 65 | 27-Apr | 21-May | 14 | 10-May |
| Bohemian Waxwing | 7 | 19 | 26-Apr | 19-May | 5 | 10-May |
| Tennessee Warbler | 3 | 5 | 29-May | 1-Jun | 3 | 1-Jun |
| Orange-crowned Warbler | 14 | 79 | 12-May | 1-Jun | 17 | 18-May |
| Yellow Warbler | 6 | 20 | 22-May | 1-Jun | 8 | 29-May |
| Myrtle Warbler | 24 | 438 | 27-Apr | 1-Jun | 75 | 18-May |
| Unidentified Yellow-rumped Warbler | 1 | 1 | 18-May | - | 1 | 18-May |
| Townsend's Warbler | 7 | 7 | 12-May | 1-Jun | 1 | all days |
| Blackpoll Warbler | 10 | 33 | 17-May | 1-Jun | 5 | 24/29 May |
| Northern Waterthrush | 11 | 41 | 17-May | 1-Jun | 8 | 24-May |
| Common Yellowthroat | 7 | 64 | 21-May | 1-Jun | 18 | 1-Jun |
| Wilson's Warbler | 19 | 362 | 4-May | 1-Jun | 37 | 18-May |
| American Tree Sparrow | 6 | 7 | 26-Apr | 11-May | 2 | 10-May |
| Chipping Sparrow | 12 | 48 | 16-May | 1-Jun | 9 | 29-May |
| Savannah Sparrow | 15 | 28 | 27-Apr | 24-May | 6 | 24-May |
| Lincoln's Sparrow | 19 | 107 | 26-Apr | 1-Jun | 11 | 24/29 May |
| Fox Sparrow | 9 | 15 | 26-Apr | 19-May | 3 | 10/16 May |
| White-crowned Sparrow | 17 | 48 | 26-Apr | 21-May | 7 | 30-Apr |
| Golden-crowned Sparrow | 7 | 9 | 26-Apr | 19-May | 2 | 26/27 Apr |
| Slate-colored Junco | 25 | 145 | 26-Apr | 1-Jun | 20 | 1-May |
| Red-winged Blackbird | 16 | 35 | 10-May | 1-Jun | 3 | 18-May |
| Rusty Blackbird | 18 | 71 | 1-May | 31-May | 9 | 3-May |
| Purple Finch | 6 | 7 | 1-May | 24-May | 2 | 1-May |
| Red Crossbill | 1 | 1 | 15-May | - | 1 | 15-May |
| White-winged Crossbill | 4 | 16 | 26-Apr | 18-May | 5 | 26/27 Apr |
| Common Redpoll | 1 | 2 | 3-May | - | 2 | 3-May |