Lesser Slave Lake

Bird Observatory

Slave Lake ▪ Alberta ▪ Canada

2014 Annual Report

Prepared by:
Richard Krikun, Bander in Charge
Lesser Slave Lake Bird Observatory
December 2014

www.lslbo.org

2014 Executive Summary

The Lesser Slave Lake Bird Observatory (LSLBO) completed its 21st year of bird population monitoring in the Lesser Slave Lake Provincial Park in 2014. The core monitoring projects include spring migration monitoring, fall migration monitoring, Monitoring Avian Productivity and Survivorship (MAPS), and northern saw-whet owl fall migration monitoring. The LSLBO contributes to additional research initiatives and educational programming as a member of the Canadian Migration Monitoring Network / Réseau Canadien de Surveillance des Migrations (CMMN-RCSM), and through partnerships with Alberta Parks and other organizations and institutions. This report summarizes the LSLBO's activities during the 2014 field season, focusing on the results of the spring and fall migration monitoring, MAPS, and northern saw-whet owl monitoring.

Spring migration coverage lasted for 49 days from April 23 to June 10. Visual counts were conducted daily and weather conditions allowed mist-nets to be set for 75% of the possible net hours. Over 44,000 birds from 149 species were recorded, including the LSLBO's first great crested flycatcher, which became the 252nd species to be recorded at the station during monitoring activities. It was a below average banding season, with 670 birds banded representing 43 species.

Fall migration coverage occurred on 79 days from July 12 to September 30, two days were missed during that time due to a staff training workshop. Visual counts were conducted each day observers were active and mist-nets were set for 84% of the possible net-hours. Over 65,000 birds representing 127 species were recorded during monitoring activities. Banding totals were slightly above the fall average with 1873 birds banded representing 55 species.

The LSLBO operated four MAPS stations from June 11 to August 2. A total of 327 birds were banded from 32 species; the second highest MAPS banding total on LSLBO's records. Two new species were banded at MAPS sites, yellow-bellied flycatcher and white-breasted nuthatch. The breeding status of 67 species was determined during visits to each MAPS site.

Northern saw-whet owl fall migration monitoring was conducted on 45 nights from September 1 to October 22. A total of 86 northern saw-whet owls were banded; a below average banding season. Two boreal owls were also captured during northern saw-whet owl banding. These were the LSLBO's first boreal owls and represent the 105th species to be banded at the station.

There were 308 recapture records representing 211 individuals in 2014. All recapture birds were originally banded at the LSLBO; there were no foreign bands recovered during banding activities. The oldest known individuals were a Canada warbler and white-throated sparrow both aged as ASY birds when banding in 2009, making them at least 7 years old.

Table of Contents

2014 Executive Summary 1
Table of Contents 2
Migration Monitoring 3
Spring Migration 4
Daily Totals 5
Mistnetting 6
Net Productivity 7
Spring Migration Summary 8
Fall Migration 10
Daily Totals 11
Mist-netting 12
Net Productivity 13
Fall Migration Summary 14
Monitoring Avian Productivity and Survivorship (MAPS) 17
MAPS Banding 17
Breeding Status 19
Recaptures 20
Northern Saw-whet Owl Monitoring 21
Staff and Volunteers 22
Visitors and Education 23
Acknowledgements 24

Migration Monitoring

Migration monitoring is a method of monitoring bird populations from a fixed point. Observers collect standardized data from visual counts and constant effort mist-netting to estimate the daily number of migrants moving through the study area during the spring and fall. The annual population indices created from the daily estimated totals are used to detect long-term population trends. The Lesser Slave Lake Bird Observatory (LSLBO) has been conducting standardized migration monitoring since 1994; 2014 marks the 21st year of monitoring activities. The LSLBO became a full member of the Canadian Migration Monitoring Network/ Réseau Canadien de Surveillance des Migrations (CMMN-RCSM) in 1999. The CMMN oversees migration monitoring across Canada and provides support and resources to the over 25 member stations, including the population trend analysis.

Migration monitoring at the LSLBO follows the standardized protocols described in the 2013 Revised Lesser Slave Lake Bird Observatory Station Manual. These protocols ensure that comparable data is collected each year to create accurate population trends. The LSLBO employs the same monitoring techniques during both spring and fall migration. Although passerines and near-passerines are the primary focus of the LSLBO, all encountered bird species are recorded. Monitoring is conducted for a maximum of seven hours each day, beginning one half-hour before sunrise. A half-hour census is conducted once each day to document bird activity within the entire study site. A five minute visual migration count is conducted once every hour which focuses only on actively migrating birds. All other birds observed during the monitoring period outside the described counts are recorded as incidental observations. The LSLBO operates 12 standard mist-nets and 2 non-standard aerial nets (established in 2010) for a maximum of 98 net hours each day for bird banding. Mist-netting does not occur if the temperature is below 2°C, during periods of precipitation, or if the wind strength is above 3 on the Beaufort Scale.

Each day an overall code is assigned based on the actual migration coverage effort achieved during the count period (Table 1). Coverage code takes into account the skill of the observers and the amount of counting and mist-netting effort. All the listed requirements must be met to obtain a code. Observers should strive for the highest code possible with the available staff and weather conditions. The LSLBO aims to achieve a daily migration coverage code of 4, however often achieves a 3 on poor weather days.

Table 1. Criteria for daily coverage codes.

Code	Coverage	Field Hours	Census	#Vis-migs	%Mist-Netting	Requirements
0	None	0				No Activity
1	Casual	1	Yes	4	>10%	One of the three counts
2	Poor	2	Yes	4	>25%	Census, one of the other two counts
3	Fair	4	Yes	6	>50%	All, one class 1 or 2 observer
4	Good	6	Yes	7	>50%	All, at least one class 1 observer
5	Excellent	10	Yes	8	>90%	All, three class 1 observers

Spring Migration

Spring migration monitoring is conducted from late April until early June. This time period covers the migratory window of the majority of the species expected to be encountered at the LSLBO. Monitoring begins late April once daytime temperatures have risen above freezing to allow for banding. Early spring migrant species typically begin migrating through the area before monitoring commences, but the extent of the migratory activity varies annually depending on the overall weather conditions. Periods of heavy migration can occur at any time during May. Species diversity quickly increases in early May and new species are detected constantly throughout the month. Migration activity slows down in late May with only individuals of a few late migratory species moving through. Many of the observations in late May and June consist of local breeding individuals. Spring migration monitoring ends on June 10.

In 2014, spring migration monitoring began on April 23 and ran daily until June 10 for 49 days of coverage. Observers conducted the census and recorded incidental observations every day. The target of 8 daily visual migration counts was reached on all but 9 days. Poor weather reduced the mist-netting coverage on 18 days- 12 days received partial net coverage and on 6 days conditions prevented mist-netting entirely. Reduced net hours are most common early in the spring when overnight temperatures drop below freezing and netting is delayed until conditions warm up. Even though mist-netting effort was slightly reduced from previous years, spring migration received excellent monitoring coverage (Table 2).

Table 2. Summary of effort during spring migration monitoring at LSLBO, 2006-2014.

Coverage	2006	2007	2008	2009	2010	2011	2012	2013	2014
First Day	24-Apr	24-Apr	26-Apr	25-Apr	22-Apr	22-Apr	23-Apr	25-Apr	23-Apr
Last Day	10-Jun	10-Jun	10-Jun	10-Jun	10-Jun	15- May	10- Jun	10-Jun	10-Jun
Number of Days	47	48	45	46	50	24	49	47	49
Person Days	127	92	105	89	114	55	96	95	88
Average Daily Coverage Code	3.78	3.81	3.78	3.79	3.76	3.91	3.76	3.81	3.84
Banding									
Number of Days	44	47	43	42	44	23	45	41	43
Av. Daily Net Hrs	70.3	73.6	75.8	70.4	64.4	81.8*	80.68*	79.7*	73.4*
Census									
Number of Days	47	48	45	46	50	24	48	47	49
Vis-Mig									
Number of Days	47	48	45	46	50	24	49	47	49
Av Daily Vis-Migs	7.7	7.9	7.8	7.7	7.6	7.8	7.5	7.6	7.6

*includes net hours from two non-standard aerial nets.

Daily Totals

A total of 44,667 birds representing 149 species were recorded through the four monitoring methods during spring migration. Banding accounted for the lowest number of encounters and the lowest species diversity of the four monitoring methods with 737 birds (new bandings and recaptures) representing 43 species. Golden-crowned kinglet, veery, chestnut-sided warbler, and fox sparrow were only encountered through mist-netting. Visual migration counts recorded the second lowest number of birds and species diversity with 5,671 birds from 57 species. Cooper's hawk and LeConte's sparrow were only recorded during visual migration counts. 7,953 birds representing 102 species were recorded during census. No species were exclusively encountered on the census. Incidental observations accounted for the highest number of birds and highest species diversity with 32,791 birds from 142 species. 30 species were only encountered on incidental observations including three species-of-concern: western grebe, olive-sided flycatcher, and barn swallow. The LSLBO's first recorded observation of a great crested flycatcher occurred during incidental observations on May 29; it represented the 252nd species to be recorded during LSLBO monitoring activities.

The first half of spring had more occurrences of days with high volumes of migrants moving through than the second half (Figure 1). The heavy migration that occurred in late April was primarily by landbird species; the majority of the migrants on those days represented only a few species, primarily American robin, myrtle warbler, dark-eyed junco, and blackbirds. The first occurrence of heavy waterfowl migration was on April 30 when large flocks of greater white-fronted geese moved through. The three biggest migration days in May (7, 8, and 13) consisted mostly of greater white-fronted geese and snow geese with very few songbirds. The songbird migration on May 10 was almost exclusively American robins. The second half of spring migration, from mid-May until the end of the season was a slower, but steady, pace. Only three dates surpassed 1000 birds, but a high diversity of species was encountered on most days during that time. Species occurrences during spring migration are listed in Appendix I.

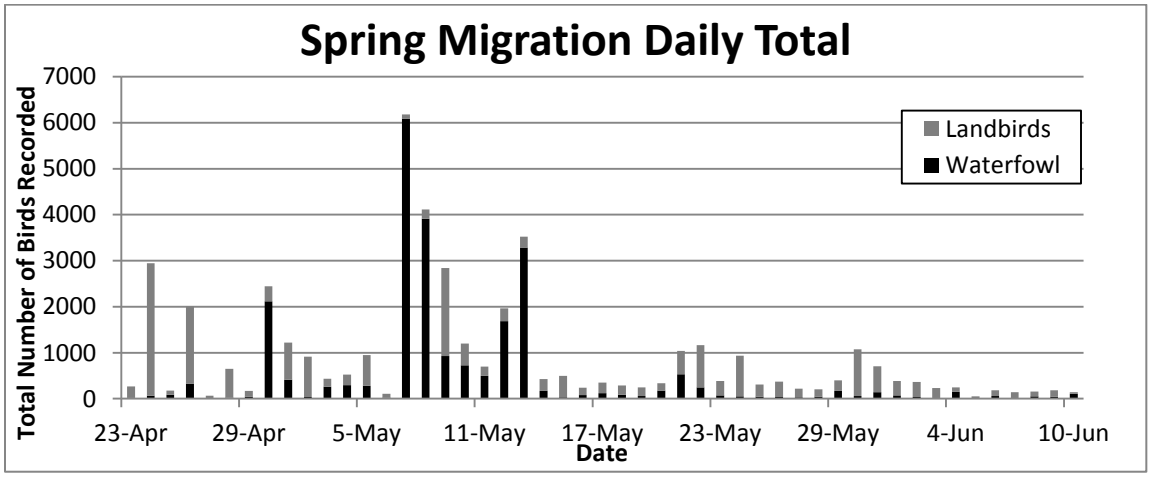


Figure 1. Total number of birds detected each day during spring migration, 2014.

Mistnetting

Mist-nets were set for 3595.4 net hours; achieving 75% of the total possible net coverage following the LSLBO mist-netting protocols. The twelve standard mist-nets were set for 3131.9 net hours, achieving 76% of the possible net hours. The two aerial nets were set for 463.6 net hours, or 68% of the possible net hours. A total of 670 birds were banded and an additional 67 recaptures were recorded. The banding total fell short of the spring average of 942 birds. Banding was slow through the first half of migration, but picked up during the second half of May (Figure 2). The busiest banding day was May 26 with 55 birds banded, followed by May 21 and June 1 with 46 birds on both those dates.

A total of 43 species and forms were represented during spring banding, matching the spring average of 43 species. The top five banded species were: Tennessee warbler (68), white-throated sparrow (68), Swainson's thrush (59), Myrtle warbler (52), and ovenbird (49). These five species combined to account for 46% of all the banded birds. Highlights of the banding season included a golden-crowned kinglet banded on May 1 (only the second spring banding record), a veery banded May 22, and a chestnut-sided warbler banded on June 3 (the first spring record since 2004). Ovenbirds reached a new spring high in banding totals, surpassing the previous high set in 2007. Spring banding totals for all species is listed in Appendix II.

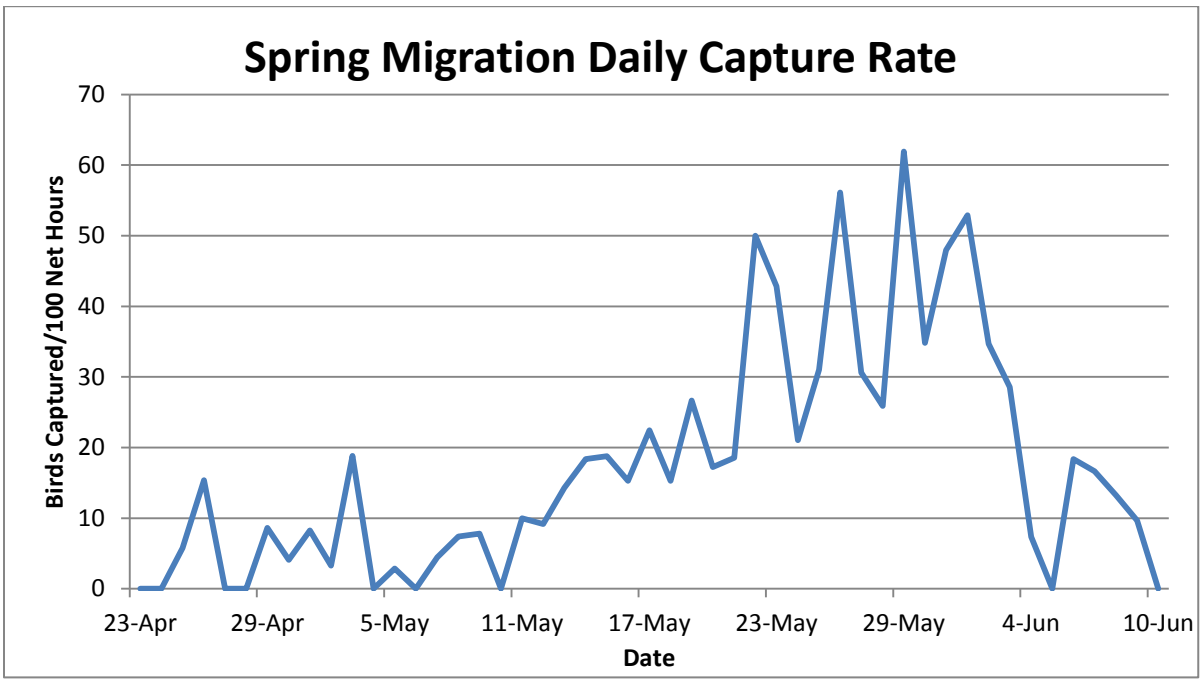


Figure 2. Daily capture rate during spring migration, 2014.

Net Productivity

The twelve standard net-lanes used by the LSLBO during migration monitoring are numerically designated 1 through 12. The two aerial nets, designated 11x and 12x, are located adjacent to the corresponding standard net-lane number. The aerial nets were first used during spring migration in 2011. The three net-lanes located adjacent to the shore-line (nets 6, 11, and 11x) are more exposed to wind and typically have fewer net hours than the net-lanes sheltered in the forest. In 2014, the total capture rate was 20.5 birds per 100 net hours (Table 3). Net 6 had the highest individual capture rate at 82.1 birds per 100 net hours and also captured the highest number of species at 33. This net is typically the most productive net operated by the LSLBO. Net 10 showed the lowest capture rate at 3.8 birds per 100 net hours and only 8 species.

The two aerial nets have performed very well since they were introduced and have higher capture rates than their associated standard net. The aerial nets accounted for 24% of the birds banded this spring. The two aerial nets captured the majority of the least flycatchers and American redstart of the spring, accounted for half of the Tennessee warblers banded, and captured the only golden-crowned kinglet of the year.

Table 3. Capture rates for each net-lane during spring migration, 2014.

Net-lane	Net hours	New Captures	Returns and Repeats	Total Captured	Capture Rate (birds/100 net hours)	Number of Species
1	263.3	33	1	34	12.9	12
2	263.3	17	4	21	8.0	8
3	263.3	20	2	22	8.4	8
4	263.8	24	1	25	9.5	11
5	264.2	32	9	41	15.5	16
6	252.2	192	15	207	82.1	33
7	266.7	34	9	43	16.1	14
8	266.7	29	2	31	11.6	14
9	263.2	13	3	16	6.1	10
10	263.2	6	4	10	3.8	8
11	235.5	70	5	75	31.8	28
12	266.6	38	1	39	14.6	19
Standard Net Total	3131.9	508	56	564	18.0	42
11x	219.4	126	5	131	59.7	26
12x	244.2	36	6	42	17.2	19
Aerial Net Total	463.6	162	11	173	37.3	26
Grand Total	**3595.4**	**670**	**67**	**737**	**20.5**	**43**

Spring Migration Summary

April 23-April 29

Spring migration monitoring began on April 23. It rained steadily and the day was devoted to setting up the banding station and conducting daily migration counts. Migration of early spring species was already underway as small flocks of American robins, myrtle warblers, American tree sparrows, and dark-eyed juncos moved through despite the rain. Canada geese, mallard, common goldeneye, northern harrier, and ruby-crowned kinglets were also observed in the area. The weather for the remainder of the week was poor with periods of rain and snow and cold morning temperatures. Songbird migration ranged from very slow to busy depending on the weather. Many of the migrants were American robins, dark-eyed juncos, and blackbirds; April 24 saw a large volume of songbird migration which included almost 2000 American robins. A small number of new arrival species were seen including; song sparrow, tree swallow, northern flicker, and a Townsend's solitaire - a species only occasionally encountered at the station. Poor weather limited banding efforts through the entire week and only 18 birds were banded.

August 30 to May 6

The second week of spring migration saw a continuation of the poor weather with cool temperatures that dropped below freezing overnight, heavy winds, and periods of rain and snow. Only light songbird migration occurred throughout the entire week; the most common migrants were American robins, myrtle warblers, and blackbirds. Large flocks of greater-white fronted geese and sandhill cranes began to move through late in the week. New species observed included belted kingfisher, eastern phoebe, Say's phoebe, winter wren, hermit thrush, black-and white warbler, orange-crowned warbler, and white-crowned sparrow. Mist-netting effort was reduced for most of the week due to the poor weather and only 25 birds were banded.

May 7 to May 13

The third week began with the busiest day of migration of the spring as thousands of greater white-fronted geese as well as snow geese and hundreds of Franklin gulls were recorded. This passage continued for several days. Overall songbird migration was light through the week with occasional large migration of species such as American robin, American pipit, and tree swallow. Though songbird abundances were low, species diversity increased as new species continued to arrive including: least flycatcher, Swainson's thrush, yellow warbler, blackpoll warbler, chipping sparrow, clay-colored sparrow, vesper sparrow, savannah sparrow, LeConte's sparrow, fox sparrow, Lincoln's sparrow, western tanager, yellow-headed blackbird, and American goldfinch. Waterfowl diversity increased as pockets of open water formed on the lake; species included gadwall, blue-winged teal, northern shoveler, ring-necked duck, greater and lesser scaup, surf scoter, red-breasted merganser, common loon, and red-necked grebe. Mist-netting was reduced most days because of cold morning temperatures, and only 41 birds were banded, likely due to the weather and low volume of songbirds through the area.

May 14 to May 20

Overnight temperatures finally stayed above freezing through this week. The weather was generally ideal for migration monitoring, but a few periods of rain and heavy winds hampered monitoring efforts. Songbird migration was light through the entire week despite the high species diversity observed each day that included the arrival of mourning dove, blue-headed vireo, warbling vireo, Philadelphia vireo, gray-cheeked thrush, ovenbird, northern waterthrush, Tennessee warbler, palm warbler, black throated-green warbler, and rose-breasted grosbeak. The week saw excellent mist-netting coverage with most days receiving full coverage. Banding became busier and a total of 107 birds were banded.

May 21 to May 27

This week saw steady songbird migration consisting primarily of warblers and periods with strong passage of sparrows, such as chipping and clay-coloured sparrows. Songbird diversity remained very high regardless of the volume of migrants. A large influx of new species sighted included eastern kingbird, cliff swallow, barn swallow, Connecticut warbler, American redstart, magnolia warbler, bay-breasted warbler, Canada warbler, and Wilson's warbler. A number of the latest expected spring migrants were observed near the end of the week: alder flycatcher, red-eyed vireo, and cedar waxwing. A number of uncommonly encountered species were also observed, olive-sided flycatcher, house wren, veery, and Baltimore oriole. Mist-netting coverage was excellent due to ideal weather conditions and a total of 225 birds were banded. The busiest spring banding day with 55 birds occurred this week on May 26.

May 28 to June 3

The steady warbler and sparrow migration continued from the previous week, at times reaching high volumes of migrants. Good numbers of flycatchers and swallows were also recorded. A number of new species were encountered including ruby-throated hummingbird, mourning warbler, Western wood-pewee, bank swallow, common yellowthroat, and Cape May warbler. Notable and unusual sightings of the week included Pacific loon, great crested flycatcher, and chestnut-sided warbler. Migration passage slowed down considerably by the weeks-end, but migrants continued to trickle through the area. Migration coverage was excellent with only a little rain and windy conditions that reduced net coverage on a few days. A total of 202 birds were banded. This week included two of the busiest days of the spring.

June 4 to June 10

The final week of spring migration was slow and very few birds were observed actively migrating through the area. Many of the birds that were captured showed evidence of breeding activity. A total of 52 birds were banded, and though most days saw good net coverage several days were rained out, including June 10, the final day of spring migration monitoring.

Fall Migration

Fall migration monitoring is conducted from mid-July until late September. This time period covers the migratory window of the majority of songbird species expected at the LSLBO. Late fall migratory species may have incomplete coverage if conditions extend their migratory window into October. Migration is light during the first week of fall monitoring with most of the activity consisting of local breeders. Activity picks up quickly after the first week and there can be consistent and heavy migration and busy banding from late July until early August. Migration activity throughout August and until mid-September occurs in pulses. Pulses of heavy migration are followed by several very slow days. Activity dwindles in the last half of September with most of the activity consisting of a small number of late migratory and winter resident species.

Fall migration monitoring occurred from July 12 until September 30 in 2014 for a total possible 81 days of coverage. Staff participated in a training workshop in late September missing two possible days of coverage so monitoring activities occurred on 79 days during the fall period. The census was conducted every day the station operated. Visual migration counts were conducted daily, and observers conducted 8 visual migration counts on 64 days; the remaining days received reduced counts due to poor weather conditions. Poor weather conditions prevented mist-netting on only two days, but forced reduced net hours on 40 days. Typically during the summer months strong winds develop late in the morning which force exposed nets to be closed early. This year there was also long stretches of poor weather from late August throughout September which greatly reduced the overall netting effort late in the fall. Fall migration received excellent migration coverage consistent with previous years (Table 4).

Table 4. Summary of effort during fall migration monitoring at LSLBO, 2006-2014.

Coverage	2006	2007	2008	2009	2010	2011	2012	2013	2014
First Day	12-Jul	12-Jul	12-Jul	12-Jul	12-Jul	12- Jul	12-Jul	12-Jul	12-Jul
Last Day	29-Sep	30-Sep	2-Oct	28-Sep	30-Sep	30-Sep	29-Sep	29-Sep	30-Sep
Number of Days	77	73	76	77	80	81	80	80	79
Person-days	149	114	131	165	158	140	126	131	120
Average Daily Coverage Code	3.69	3.33	3.48	3.73	3.7	3.67	3.78	3.84	3.74
Banding									
Number of Days	73	68	74	75	77	75	77	76	76
Av. Daily Net Hrs.	73.9	71.9	75.7	78.9	81.5*	77.9*	82.1*	82.7*	80.2*
Census									
Number of Days	77	73	75	77	80	81	80	80	79
Vis-Migs									
Number of Days	77	73	76	77	80	81	80	80	79
Av Daily Vis-migs	7.7	7.7	7.5	7.6	7.5	7.3	7.6	7.6	7.5

*includes net hours from two non-standard aerial nets.

Daily Totals

A total of 65,355 birds from 127 species were recorded during fall migration monitoring through the four monitoring methods. Mist-netting accounted for the lowest number and diversity with 2009 birds from 53 species but was the only method that detected gray-cheeked thrush. Visual migration counts recorded 9201 birds from 58 species and the only method that encountered broad-winged hawk, peregrine falcon, horned lark, and Brewer's blackbird. The census recorded 14,133 birds from 94 species. Horned grebe, Say's phoebe, varied thrush, and European starling were only encountered on the census. Incidental observations recorded 43,343 birds from 117 species. 19 species were only encountered incidentally and included several species-of-concern: black tern, common nighthawk, barred owl, and olive-sided flycatcher.

Some degree of migration occurred daily during the fall, with the exception of days with extremely bad weather (Figure 3). Many of the observations are landbird species, primarily passerines. Waterfowl tend to move through late in September and into October once songbird monitoring has ended, but there can be rafts of common mergansers and common loons and large flocks of Franklin gulls observed. There were several large pulses of migratory birds observed this fall. The first occurred through the first week of August, which consisted of large volumes of a very large number of species; although diversity was high myrtle warblers were the most prevalent species. The second pulse occurred mid-August which included the busiest day of migration of the fall, August 14. Myrtle warblers and Tennessee warblers where the most commonly encountered species but there was also strong representation from a large number of other warbler and sparrow species. Mid-September showed consistent strong migration including unusually high numbers of black-capped chickadees and boreal chickadees moving through the area along with myrtle warblers. Species occurrences during spring migration are listed in Appendix I.

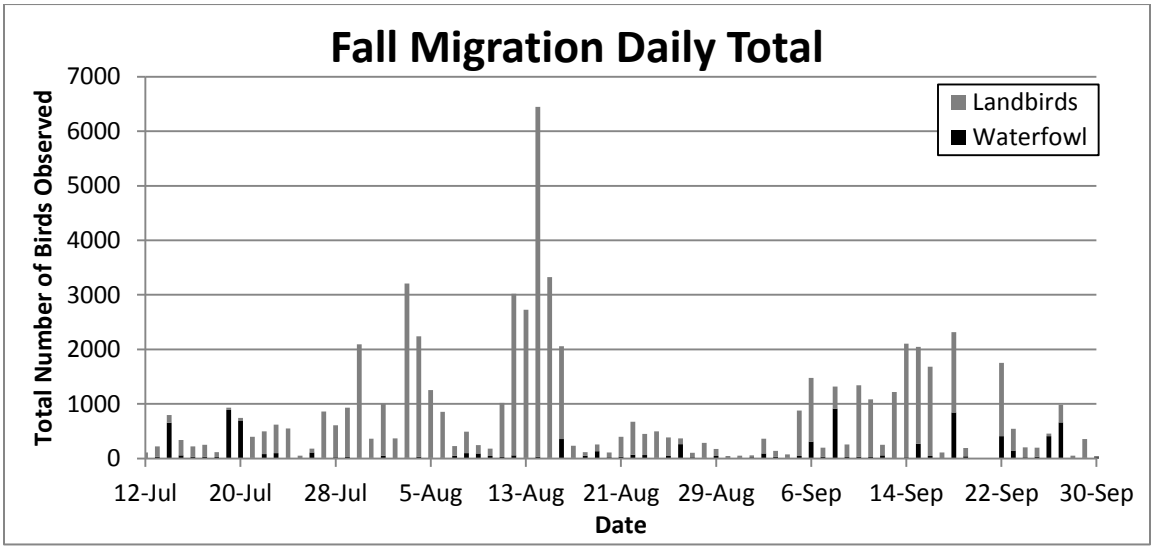


Figure 3. Total number of birds detected each day during fall migration, 2014.

Mist-netting

Mistnets were set for a total of 6615.12 net hours, achieving 84% of the total possible net coverage for the season. The twelve standard netlanes were set for 5732.34 net hours and the two aerial nets were set for 767 net hours; achieving 84% and 68% of possible net hours, respectively. A total of 1873 birds were banded and 136 recaptures were recorded. The banding total was slightly higher than the seasonal average of 1812 birds. Banding reached several peaks throughout the fall, from late July through to early August, mid-August, and mid-September (Figure 4). The busiest banding day of the fall was August 12 with 82 birds banded, followed by September 15 with 80 birds banded and September 13 with 74 birds banded.

A total of 53 species were banded during the fall, slightly below the fall average of 55 species. The top five banded species were: Myrtle warbler (370), ovenbird (303), Swainson's thrush (252), Tennessee warbler (147), and black-capped chickadee (105). These five species combined to account for 63% of all banded birds. Highlights during fall banding included the LSLBO banding its 10,000th Myrtle warbler. Sharp-shinned hawk, northern flicker, gray-cheeked thrush, Swainson's thrush, and ovenbird received record fall banding totals. A complete list of all fall banding totals and species is listed in Appendix II.

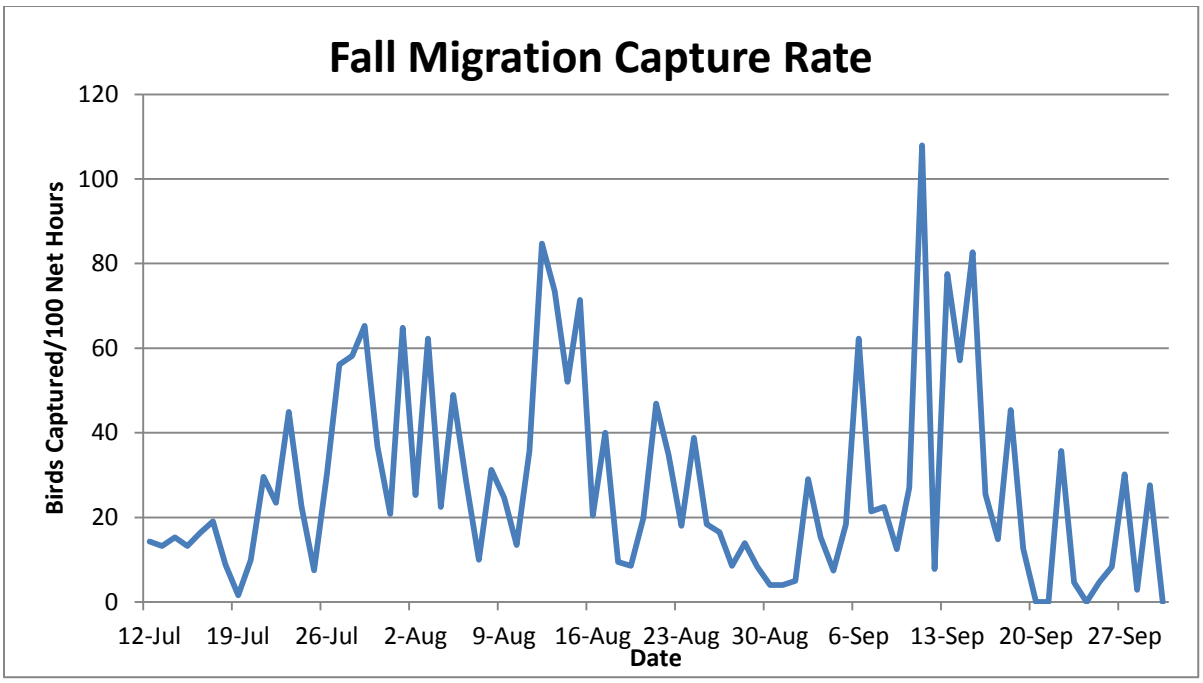


Figure 4. Daily capture rate during fall migration, 2014.

Net Productivity

The net-lanes used for fall migration are identical to spring migration with twelve standard net-lanes designated as Nets 1 through 12 and two aerial nets, designated 11x and 12x. The aerial nets were first used in fall migration in 2010. The three net-lanes located adjacent to the shore-line (nets 6, 11, and 11x) are more exposed to wind and typically have fewer net hours than the rest of the net-lanes, which are sheltered in the forest.

In 2014, the total capture rate was 30.9 birds per 100 net hours (Table 5). Net 11x had the highest capture rate of the individual nets at 115.5 birds per 100 net hours. Net 6 had a slightly lower capture rate, but the highest species diversity at 48. Net 10 showed the lowest productivity with the lowest capture rate of 9.0 birds per 100 net hours and Net 9 had the lowest species diversity with 11 species.

The two aerial nets accounted for 29% of the birds banded in the fall. They captured the majority of the black-capped chickadees and almost half of the myrtle warblers of the fall. They also captured the only blue-headed vireo and red-breasted nuthatch of the fall.

Table 5. Capture rates for each net-lane during spring migration, 2014.

Net-lane	Net hours	New Captures	Returns and Repeats	Total Captured	Capture Rate (birds/100 net hours)	Number of Species
1	498.3	140	14	154	30.9	19
2	498.3	113	12	125	25.1	14
3	500.8	109	11	120	24.0	16
4	488.3	67	7	74	15.2	22
5	498.3	105	13	118	23.7	23
6	394.4	392	16	408	103.4	48
7	500.3	69	9	78	15.6	20
8	500.3	41	5	46	9.2	18
9	498.8	44	3	47	9.4	11
10	498.8	40	5	45	9.0	17
11	363.4	104	9	113	31.1	29
12	492.8	102	9	111	22.5	23
Standard Net Total	5732.3	1326	113	1439	25.1	51
11x	341.9	388	7	395	115.5	34
12x	425.1	159	16	175	41.2	24
Aerial Net Total	767.0	547	23	570	74.3	40
Grand Total	**6499.3**	**1873**	**136**	**2009**	**30.9**	**53**

Fall Migration Summary

July 12 to July 18

The opening week of fall migration was very hot and most days saw the wind increase dramatically late in the morning as temperatures approached their daytime high. Most of the bird activity occurred during the first half of the morning when conditions were calm and cool. A small amount of migration by myrtle warblers and Tennessee warblers was observed on the opening day of fall migration. Migrants began to pass through more regularly and in larger numbers as the week progressed, but overall migration was still light. The diversity of migrants also increased to include tree swallows, thrush, blackbirds and a host of warblers. Mist-netting coverage was excellent through the week and 81 birds were banded.

July 19 to July 25

The weather through the week was mixed. The week opened with several days of heavy wind, during which very little bird activity was observed. Weather conditions became more favorable mid-week and light migration resumed. Like the previous week, myrtle warblers and Tennessee warblers were the most commonly encountered species, but good number of other warblers, such as black-and-white warblers, American redstart, and yellow warbler, were also observed. Many of the migrants were flying high above the trees, making positive identification difficult. Poor weather returned at the end of the week bringing rain and heavy winds and very little bird activity. Although the weather limited banding efforts, 113 birds were banded through the week.

July 26 to August 1

The pace of migration began to pick up through the last week of July. Steady migration occurred through the week and at times the migration became quite heavy. Overhead migration and foraging flocks continued to move through late in the morning even as the temperature became hot. Each day saw a large diversity of migrating species that included representation from a large number of warbler species, vireos, swallows, thrush, tanagers, blackbirds, and grosbeak. The weather through the week was excellent allowing for good mist-netting coverage and a total of 299 birds were banded. The diversity of species encountered during mist-netting was high, but ovenbirds made up a large portion of the birds banded.

August 2 to August 8

The excellent weather and steady songbird migration continued from the previous week. Migration became quite heavy during the first half of the week leading to one of the busier pulses of migration observed during the fall. A large diversity of species were observed, but myrtle warblers, Tennessee warblers, and tree swallows were the most prevalent species. A weather system brought windy and rainy conditions late in the week which halted much of the bird activity and reduced monitoring efforts. A total of 185 birds were banded through the week and ovenbirds remained the top banded species.

August 9 to August 15

The week began with a few days of strong winds and little bird activity. Bird activity picked up as the winds diminished leading to the busiest pulse of songbird migration of the fall. Warblers made up the majority of the migrants, but occasionally large flocks of sparrows were observed and flycatchers, particularly eastern kingbirds, were moving in good numbers. Myrtle warblers and Tennessee warblers accounted for the majority of the observations, particularity on August 14 when 2500 myrtle warblers and almost 1500 Tennessee warblers were counted. Each day between 50 and 60 species were encountered. Much of the migration was too high to obtain positive identification of many of the warblers and sparrows. A total of 321 birds were banded through the week. The top banding day of the season with 82 birds occurred on August 12. Ovenbirds remained the top banded species through the week. The last rose-breasted grosbeak sighting of the fall occurred this week.

August 16 to August 22

The migration activity from last week carried over for a day then weather shifted and it became windy and cool for the rest of the week. Migration activity slowed down substantially except for the occasional burst of myrtle warblers or sparrows. Sharp-shinned hawks also began to move through more frequently. The weather reduced mist-netting effort through much of the week which resulted in low daily banding totals. Weather conditions improved late in the week, and even though overhead migration remained low, banding totals increased. A total of 148 birds were banded for the week; ovenbirds and Swainson's thrush remained the top banded species. The last Canada warbler of the year was observed during the week.

August 23 to August 29

It was a very quiet week for monitoring; overall songbird activity was low through the entire week. Persistent winds may have reduced the migration activity. Occasional overhead migration of myrtle warblers and sparrows was observed, but the passage was infrequent with only a few individuals moving. Most days received reduced net hours and a total 106 birds were banded. The last fall sighting of several species occurred during the week, including eastern kingbird, Philadelphia vireo, warbling vireo, red-eyed vireo, tree swallow, black-and white warbler, bay-breasted warbler, and black throated-green warbler. The first white-crowned sparrow and dark-eyed junco of the fall were observed.

August 30 to September 5

Cool, windy, and rainy weather conditions continued through most of the first week of September. There was very little bird activity observed during the poor weather. The weather cleared for the final day of the week and migration resumed as good numbers of myrtle warblers, orange-crowned warblers, black-capped chickadees, and sharp-shinned hawks moved through. The first greater white-fronted geese of the fall were observed, but it was a small flock with only a few individuals. Mist-netting effort was reduced for most of the week and only 62 birds were

banded. The last fall sightings of least flycatcher, alder flycatcher, mourning warbler, and chipping sparrow occurred.

September 6 to September 12

It was a varied week in terms of songbird migration with slow periods intermixed with brief periods of heavy migration. Most of the migrants were myrtle warblers, with totals nearing 1000 on several days, but there was also a steady passage of black-capped chickadees and boreal chickadees. The weather was generally cooler with periods of wind, which reduced mist-netting effort. However, several days had excellent bird banding and a total of 184 birds were banded through the week. A number of species had their last fall sightings including, belted kingfisher, Tennessee warbler, American redstart, blackpoll warbler, yellow warbler, Wislon's warbler, western tanager, and song sparrow. The first flocks of sandhill cranes of the fall were observed.

September 13 to September 19

It was a busy week for migration as steady numbers of myrtle warblers and black-capped chickadees continued to migrate through the area. Boreal chickadee passage was also strong reaching a peak number of 71 on September 15. The daily chickadee passage would begin mid-morning and steady streams would skim the treetops for the rest of monitoring period. The first fall flocks of dark-eyed juncos and the occasional group of orange-crowned warblers were also observed. Mist-netting was excellent with a total of 285 birds were banded, and included the second and third highest banding totals of the fall. Myrtle warblers were the top banded species as the chickadees were flying just out of reach of the mist-nets. Final fall sightings of yellow-belled sapsucker, ovenbird, northern waterthrush, common yellowthroat, Cape May warbler, magnolia warbler, and palm warbler occurred. The first American tree sparrow of the fall was banded. Groups of common goldeneye and bufflehead began to form on the lake and flocks of greater-white fronted geese began to migrate through in larger-sized flocks.

September 20 to September 30

The final stretch of fall migration monitoring was faced with cool, windy, and wet weather. Most of the songbird activity had slowed down, but the black-capped chickadees continued their impressive passage, reaching their fall peak of over 600 counted on September 22. Myrtle warblers were still passing through, but in decreasing numbers. A few flocks of geese, primarily snow geese were observed and rough-legged hawks began to move through. Most days saw reduced netting effort due to poor weather and 89 birds were banded. Migration monitoring ended on September 30 on a wet and cold day. Even though there was still good numbers of black-capped chickadees moving through and dark-eyed juncos had yet to arrive in large numbers, the long-term forecast was very poor prompting the closure of the station for the year. Early in the week saw the last sightings of hermit thrush, swainson's thrush, clay-coloured sparrows, Lincoln's sparrow and white-throated sparrow.

Monitoring Avian Productivity and Survivorship (MAPS)

Monitoring Avian Productivity and Survivorship (MAPS) is a continent wide monitoring program coordinated by the Institute for Bird Populations. It provides long-term data on population and demographic parameters for landbird species on their breeding grounds. The LSLBO has participated in the MAPS program since 1994 and it remains one of the core monitoring projects. 2014 marked the 21st year that the LSLBO has contributed to the MAPS program.

The LSLBO currently operates four MAPS stations: Far-and-Away (FAWA), Fern Gully (FEGU), Roadside (ROAD), and Residence (RESI). Three stations, FAWA, FEGU, and ROAD, are located in the forest bordering the migration monitoring station, while RESI is located near the Boreal Centre for Bird Conservation. FAWA and ROAD have operated for all 21 years. FEGU operated from 1994 to 2000. It was reopened in 2003 and has since operated for 12 consecutive years. RESI was established in 2000 and completed its 14th consecutive year of operation. Each station is visited once every 10 day period. Each visit consists of constant-effort mist-netting and visual observations to determine breeding status following the operating protocols outlined in the MAPS Manual. The LSLBO operates through 6 of the periods; the dates that each station was visited in 2014 were:

	FAWA	**FEGU**	**ROAD**	**RESI**
Period 5 (Jun 10 – 19)	June 12	June 13	June 14	June 11
Period 6 (Jun 20 – 29)	June 23	June 24	June 24	June 22
Period 7 (Jun 30 – Jul 9)	July 1	July 2	July 2	June 30
Period 8 (Jul 10 - Jul 19)	July 12	July 11	July 11	July 10
Period 9 (Jul 20 – 29)	July 20	July 22	July 23	July 21
Period 10 (Jul 30 – Aug 8)	July 30	July 31	August 1	August 2

MAPS Banding

Each MAPS station operates 10 mist-nets for 6 hours each visit for a maximum of 360 net hours for the season. Both ROAD and FEGU received maximum mist-netting coverage. FAWA nearly achieved maximum net coverage with 359.5 net hours, but one net was briefly out of commission after it was struck by a deer during mist-netting. RESI received the least amount of coverage with 334 net-hours. One net was flooded out during period five and rain reduced coverage during period nine.

A total of 432 birds were captured; 327 banded and 105 recaptured, representing 32 species (Table 6). RESI had the highest capture total, recording 119 birds captured from 23 species, FAWA recorded 113 birds from 15 species, FEGU had 105 captures from 18 species, and

ROAD recorded the lowest with 95 captures from 19 species. Two new species were banded during MAPS banding; a yellow-bellied flycatcher and a white-breasted nuthatch were banded at the ROAD site.

Table 6. Number of birds banded and recaptured at the four MAPS stations in 2014.

Species	**FAWA**		**ROAD**		**FEGU**		**RESI**		**Total**
	Band	Recap	Band	Recap	Band	Recap	Band	Recap	
Sharp-shinned Hawk			1						1
Yellow-bellied Sapsucker	1	1				2	2	3	9
Downy Woodpecker	1								1
Yellow-bellied Flycatcher			1						1
Alder Flycatcher					1				1
Least Flycatcher					1				1
Red-eyed Vireo	1		1				3		5
Black-capped Chickadee			1				1		2
White-breasted Nuthatch			1						1
Winter Wren					2		1		3
Ruby-crowned Kinglet			1	1					2
Swainson's Thrush	3		2	1	1		12		19
Hermit Thrush			2				2		4
American Robin	2		1	1	1		3		8
Ovenbird	9	3	14	9	10	2	9	2	58
Northern Waterthrush					1	1	1		3
Black-and-white Warbler			3	1	1	1			6
Tennessee Warbler	29		8	1	6		17		61
Mourning Warbler	2	2			2		2	3	11
Common yellowthroat			1		1		1	1	4
American Redstart	7		8		13	5	12	1	46
Cape May Warbler							1		1
Magnolia Warbler			2				1	1	4
Bay-breasted Warbler							1		1
Yellow Warbler	1				4		2		7
Myrtle Warbler	2		13	2	4	4	8	4	37
Canada Warbler	1		7	4	8	18	2	1	41
Chipping Sparrow	2	1	2	3			2		10
Lincoln's Sparrow							2		2
Swamp Sparrow	1								1
White-throated Sparrow	27	17	1	2	9	6	15	1	78
Western Tanager					1		2		3
Total	89	24	70	25	66	39	102	17	432

Breeding Status

Breeding status was determined for the 67 species encountered during MAPS station visits in 2014 (Table 7). The breeder status (B) was given to species with strong evidence supporting breeding activity within the boundaries of the MAPS station. Likely breeders (L) were species frequently observed at a station, but lacked strong evidence of breeding activity within the station's boundaries. Transient species (T) were observed at a station, but it is unlikely that they were breeding within the stations boundaries. Observations were restricted to MAPS banding site visits only.

Table 7. Breeding Status of MAPS birds in 2014.

Species	RESI	ROAD	FEGU	FAWA	Species	RESI	ROAD	FEGU	FAWA
Canada Goose		T			Swainson's Thrush	B	B	B	L
Mallard	T				Hermit Thrush	B	T		
Common Goldeneye	T				American Robin	B	L	L	B
Ruffed Grouse	L	B	B		Cedar Waxwing	T	T	T	T
Bald Eagle				T	Ovenbird	B	B	B	B
Sharp-shinned Hawk		T		T	Northern Waterthrush	T		L	
Merlin		T			Black-and-white Warb	B	B	B	B
Franklin's Gull				T	Tennessee Warbler	B	B	B	L
Ring-billed Gull				T	Mourning Warbler	B	T	B	B
Ruby-thr. Hummingbird	T				Common Yellowthroat	B		T	T
Belted Kingfisher			T		American Redstart		B	B	B
Yellow-bellied Sapsucker	B	T	L	L	Cape May Warbler	T			
Downy Woodpecker	L	T		T	Magnolia Warbler	B	L	L	
Hairy Woodpecker	L	T	T	T	Bay-breasted Warbler	B			
Northern Flicker			T		Yellow Warbler	B	L	B	B
Pileated Woodpecker	T				Yellow-rump'd Warb.	B	B	B	B
Yellow-bellied Flycatcher		T			Black-thrt'd Grn Warb	B	L	T	
Alder Flycatcher			T		Canada Warbler	B	B	B	B
Least Flycatcher	B	T	T		Chipping Sparrow	B	B	T	T
Eastern Phoebe		B			Clay-colored Sparrow		L	T	L
Blue-headed Vireo	B	T	T	T	Song Sparrow	T		L	T
Warbling Vireo	L	T		T	Lincoln's Sparrow	B	L		T
Philadelphia Vireo	L		T		Swamp Sparrow				T
Red-eyed Vireo	B	B	B	B	White-thrt'd Sparrow	B	B	B	B
Blue Jay		T	T	T	Western Tanager	B	B	B	L
American Magpie		T	T		Rose-breast'd Grosbeak	T	L	B	T
American Crow	T	B	T	T	Red-winged Blackbird			T	
Common Raven	T	T		T	Brown-headed Cowbird		T		
Tree Swallow	T	T		T	Purple Finch	T		T	T
Black-capped Chickadee	B	B	T	B	Pine Siskin	T	T	T	T
Boreal Chickadee	T				Evening Grosbeak	T	T	T	T
Red-breasted Nuthatch	L	B	T	T		RESI	ROAD	FEGU	FAWA
White-breasted Nuthatch	T	T	T	T	Total sp. Breeder (B)	25	18	15	11
Brown Creeper	T				Total sp. Likely (L)	6	7	5	6
Winter Wren	B	B	B	L	Total sp Transient (T)	14	21	22	24
Ruby-crowned Kinglet	B	B			Total sp.	45	46	42	41

Recaptures

The LSLBO recorded 308 recaptures during the 2014 banding season: 67 during spring migration monitoring, 136 during fall migration monitoring and 105 during MAPS. These recapture records represent 211 individuals: 165 were originally banded during 2014 banding activities and were recaptured later in the season, 16 were originally banded in 2013, and 30 were banded previous to 2013 and represent the oldest known aged birds encountered during the banding season (Table 8). The oldest known individuals were a Canada warbler and white-throated sparrow both aged as ASY birds when banding in 2009, making them at least 7 years old. All birds recaptured were originally banded by the LSLBO; there were no foreign bands recovered during banding activities.

Table 8. Age of recaptured birds originally banded at the LSLBO before 2013

Species	**Band Number**	Original Banding			Recapture		Age (Years)
		Date	Location	Age	**Date**	**Location**	
Canada Warbler	2590-66090	25/07/2012	ROAD	HY	02/08/2014	RESI	2
Canada Warbler	2590-66091	25/07/2012	ROAD	HY	02/07/2014	FEGU	2
Black-capped Chickadee	2590-65309	26/08/2011	Mig	HY	01/05/2014	Mig	3
Swainson's Thrush	2431-87580	08/06/2012	Mig	SY	07/06/2014	Mig	3
Ovenbird	1741-02968	25/06/2012	RESI	SY	11/06/2014	RESI	3
Myrtle Warbler	2590-66246	13/05/2012	Mig	SY	13/05/2014	Mig	3
American Redstart	2520-57920	24/07/2011	Mig	HY	24/06/2014	FEGU	3
American Redstart	2520-57955	03/08/2011	Mig	HY	28/05/2014	Mig	3
Canada Warbler	2590-65039	18/07/2011	Mig	HY	11/07/2014	FEGU	3
Canada Warbler	2590-66050	15/06/2012	RESI	SY	24/06/2014	ROAD	3
Canada Warbler	2640-16076	16/07/2012	Mig	AHY	24/06/2014	ROAD	3+
Black-and-white Warbler	2590-66017	02/07/2011	FEGU	SY	03/06/2014	Mig	4
Myrtle Warbler	2590-65014	13/06/2011	LSLPP	SY	11/06/2014	RESI	4
Canada Warbler	2590-66020	02/07/2011	FEGU	SY	31/07/2014	FEGU	4
American Robin	0942-99993	15/07/2011	ROAD	AHY	18/09/2014	Mig	4+
Myrtle Warbler	2590-65924	07/06/2012	Mig	ASY	17/05/2014	Mig	4+
White-throated Sparrow	2341-50941	11/05/2012	Mig	ASY	01/07/2014	FAWA	4+
White-throated Sparrow	2431-87581	10/06/2012	Mig	ASY	02/07/2014	FEGU	4+
White-throated Sparrow	2431-87708	26/06/2012	FAWA	ASY	17/05/2014	Mig	4+
White-throated Sparrow	2431-87719	10/07/2012	RESI	ASY	22/06/2014	RESI	4+
Yellow-bellied Sapsucker	8041-65744	15/06/2012	RESI	TY	11/06/2014	RESI	5
Black-and-white Warbler	2500-78663	18/07/2009	Mig	HY	17/05/2014	Mig	5
Myrtle Warbler	2560-00478	06/06/2010	Mig	SY	22/07/2014	FEGU	5
Canada Warbler	2500-78957	23/06/2010	ROAD	SY	24/06/2014	FEGU	5
Black-and-white Warbler	2560-00497	18/07/2010	Mig	AHY	03/08/2014	Mig	5+
Canada Warbler	2590-66009	22/06/2011	FEGU	ASY	02/07/2014	FEGU	5+
Ovenbird	1741-02809	26/05/2009	Mig	SY	15/07/2014	Mig	6
Red-eyed Vireo	1741-02902	23/07/2009	ROAD	AHY	15/07/2014	Mig	6+
Canada Warbler	2500-78568	07/06/2009	Mig	ASY	11/07/2014	FEGU	7+
White-throated Sparrow	1721-63948	13/06/2009	FEGU	ASY	01/07/2014	FAWA	7+

Northern Saw-whet Owl Monitoring

Northern saw-whet owl fall migration monitoring began in 2004 and was conducted for the 11th consecutive year at the LSLBO. The objective of this ongoing project is to monitor the population of northern saw-whet owl through mist-netting. The LSLBO conducts northern saw-whet owl banding in the fall from early September until late October. Four nets are set up one hour after sunset for four hours. A call playback is used to lure the northern saw-whet owls into the nets. A stereo broadcasts the call on a continuous cycle. Nets are not set if the temperatures become too cold or during rain or heavy wind. Maintenance construction forced the owl net array to be moved a short distance to a more forested area in 2013. This was the second year that the new location was used.

Northern Saw-whet owl monitoring occurred on 45 nights from September 1 to October 22. The four mist-nets were set for a total of 660 net hours. The nets were closed entirely on 7 nights and poor weather reduced net effort on an additional 11 nights. A total of 86 northern saw-whet owls were banded, which is an increase from the previous year total of 45 saw-whets. The capture rate was 13 owls per 100 net hours, which is below of the average of 16.9 saw-whets per 100 net hours (Figure 5). There were no recaptures recorded this year.

In 2014 the highest single night total of northern saw-whet owls occurred on September 23 with 20 owls banded over a four hour period. This beat the previous high of 19 owls banded on October 12, 2006. Additionally two boreal owls were banded this season, captured on September 27 and October 6. These were the first boreal owls banded by the LSLBO and represent the 105th species to be banded through LSLBO banding activities.

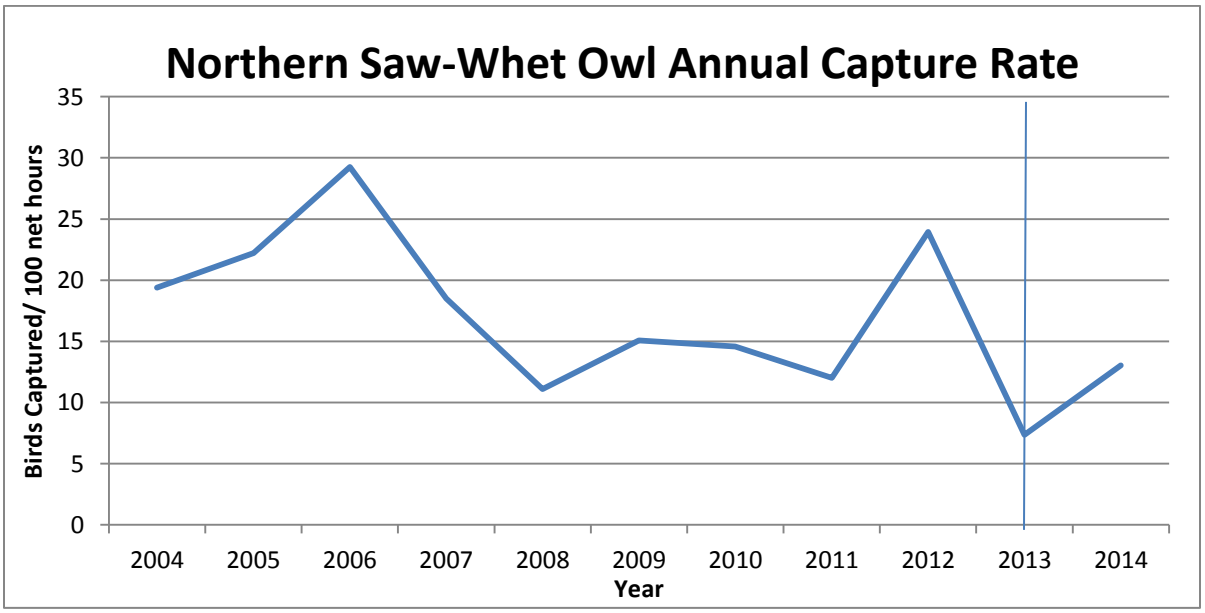


Figure 5. Annual capture rate of northern saw-whet owls. Line indicates year that net array was relocated.

Staff and Volunteers

The LSLBO accumulated nearly 297 person days between staff and volunteers through the various monitoring projects in 2014 (Table 9). The LSLBO operated with two licensed banders during the 2014 field season. The bander-in-charge has been working at the LSLBO since 2004 and the assistant bander has been at the LSLBO since 2008. These banders are responsible for all aspects of the monitoring projects at the LSLBO. The LSLBO hired a third bander, Ryan Cathers, to assist with the banding, but unfortunate circumstances did not allow Ryan to stay with us past mid-spring monitoring.

Volunteer activity was low in 2014. Five volunteers accumulated 22 volunteer days at the migration station. Two of the volunteers came for extra training for their respective summer field work and the remaining three came out to observe and help with the bird banding. All volunteers stayed for multiple days. One volunteer helped during the first MAPS and fall migration overlap period, but the banding staff had no extra help during the second more busy overlap period.

Table 9. Number of staff and volunteer days spent on monitoring projects in 2014.

LSLBO Staff	**Spring**	**MAPS**	**Fall**	**NSWO**	**Total**
Richard Krikun	38	15	56	4	109
Nicole Linfoot	35	15	46	42	138
Ryan Cathers	10				10
Total	**83**	**30**	**102**	**46**	**257**
Volunteers					
Anjolene Hunt	3				3
Meaghan Bouchard	2				2
Miles Grieve			7		7
Jerry Gordy		1	5		6
Rianne Mariash			4		4
Total	**5**	**1**	**16**		**22**

Visitors and Education

Education is an important component of the LSLBO's mandate. Various education programs provide the Boreal Centre for Bird Conservation (BCBC) an opportunity to highlight the migration monitoring programs conducted at the LSLBO while tying in curriculum connections for elementary, secondary, and post-secondary classes. The LSLBO also hosts drop-in events for visitors to learn more about birds, migration, and conservation. These programs and events are constantly evolving to allow the visitors a unique experience while maintaining bird safety and accurate data collection.

In 2014 the LSLBO received just under 1000 visitors to the bird banding operations (Table 10). Spring migration had the most visitors, which was largely due to school groups and the annual Songbird Festival. There were 11 school groups including kindergarten, grades 1, 4, 7 and 9 as well as home schooled students. Two college classes from Concordia College and Northern Lakes Collage also participated in banding lab tours. Other tours included a Junior Forest Wardens group. The annual Songbird Festival was held on May 31. Most of the activities were held at the BCBC, but hiking and bus tours brought attendees to the banding lab to experience the bird banding. It was a fantastic day for banding and migration and all the visitors were able to see a bird banded. The LSBO also provided some hands-on training for the field assistants of a Masters student working on Canada warblers. Our role was to teach handling techniques and provide some insight to tracking Canada warblers through our previous work.

Fall migration generally has fewer visitors than the spring because of fewer organized tours. Through July and August the BCBC advertises drop-in visitor tours twice a week which cater to families and campers. The LSLBO hosted 13 drop-in lab tours, a group of Junior Forest Rangers, and the Boreal Forest Discovery Camp.

One school group, a junior high class from Ardrossen, was able to experience the northern saw-whet owl banding. The BCBC hosted a family owl night with a variety of activities including owl banding on October 4, which drew approximately 70 visitors.

Table 10. Number of visitors to the banding station in 2014.

	Adults	Children	Total
Spring Migration	185	371	556
Fall Migration	191	120	311
Saw-whet Owls	34	81	115
Total	410	572	982

Acknowledgements

The LSLBO would like to thank the follow people and organizations whose hard work, dedication, and contributions made 2014 a very successful year.

Board of Directors: Bob Deacon (Chair), Terry Kristoff (Vice-chair), Ronda Groom (Treasurer), Tyler Flockhart (Director of Field Operations), Nelson Lutz (Director at Large), Cherie Friesen (Director at Large), and Neal Knoot (Director at Large).

Executive Director: Patti Campsall

LSLBO Banders: Richard Krikun (BIC), Nicole Linfoot (Assistant BIC), and Ryan Cathers

Boreal Centre Staff and Educators: Cori Klassen, Susie VanderVaart, Michelle Karpa, and Ceiridwen Robbins

Alberta Parks: Reg Arbuckle

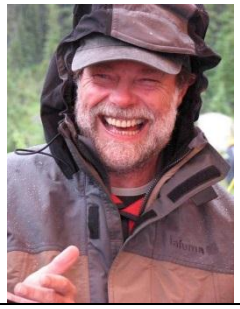
University of Alberta: Dr. Erin Bayne and Samuel Hache

Banding lab Volunteers: Meaghan Bouchard, Miles Grieve, Jerry Gordy, and Rianne Mariash.

Our Good Friends: Aaron Lehman, Wayne Bowles, and everyone else who visits us every year!

Special Thanks: Marcel Gahbauer from the Migration Research Foundation for permission and assistance with the revamps to the Appendices of this Annual Report.

Further information about migration monitoring and MAPS can be found at:
Canadian Migration Monitoring Network- www.bsc.org/cmmn.html
Nature Counts- www.naturecounts.ca
Institute for Bird Populations- www.birdpop.org



Stephen Partington

Canada Summer Jobs

Appendix I. 2014 Migration Occurrence Records

The following charts summarize the occurrences of the 159 species encountered during spring and fall migration monitoring in 2014. The charts include the average number of birds encountered each week during migration. The first and last encounter date and the peak date for each species is included along with the number of individuals encountered on each of those dates. The # processed is the number of birds banded. If any recaptures occurred the number banded is followed by the number of returns then the number of repeats (banded-return-repeat). Notes are included with species with special occurrences.

Greater White-fronted Goose (*Anser albifrons)*

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	350.86	1484.71	0	0	0	0	262.22
# Days Observed	0	4	7	0	0	0	0	11
	First Date: April 30- 1996		Last Date: May 13- 2245			Peak Date: May 7- 3447		

	JULY			AUGUST				SEPTEMBER				OCTOBER	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0	0	0	0	0	0	0	0.29	23.00	149.14	0	7.50	15.66
# Days Observed	0	0	0	0	0	0	0	1	2	2	0	1	6
	First Date: September 5- 2				Last Date: September 27- 30				Peak Date: September 18- 814				

Snow Goose (*Chen caerulescens*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	495.29	0	0	0	0	70.76
# Days Observed	0	0	7	0	0	0	0	7
	First Date: May 7- 2137		Last Date: May 13- 746			Peak Date: May 7- 2137		

	JULY			AUGUST				SEPTEMBER				OCTOBER	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0	0	0	0	0	0	0	0	0	0	75.80	152.50	12.52
# Days Observed	0	0	0	0	0	0	0	0	0	0	2	1	3
	First Date: September 25- 20				Last Date: September 27- 610				Peak Date: September 27- 610				

Canada Goose (*Branta canadensis*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	5.00	5.29	87.43	5.43	2.71	10.71	11.14	18.24
# Days Observed	7	5	7	7	7	7	5	45
	First Date: April 23- 3		Last Date: June 9- 2			Peak Date: May 8- 422		

	JULY			AUGUST				SEPTEMBER				OCTOBER	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0	0	5.86	0	4.43	3.43	1.43	10.71	16.43	0.29	4.00	0.25	4.04
# Days Observed	0	0	2	0	2	3	1	4	5	1	1	1	20
	First Date: July 30- 1				Last Date: September 27- 1				Peak Date: September 2- 67				

Tundra Swan (*Cygnus columbianus*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	2.57	21.00	0.43	0.29	0	0	0	3.47
# Days Observed	2	5	1	1	0	0	0	9
	First Date: April 24- 3		Last Date: May 20- 2			Peak Date: May 1- 60		

Gadwall (*Anas strepera*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	0.14	0.14	0	0	0	0.04
# Days Observed	0	0	1	1	0	0	0	2
	First Date: May 11- 1		Last Date: May 14- 1			Peak Date: All Dates- 1		

American Wigeon (*Anas americana*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	2.00	23.29	2.14	0.14	0	0	3.94
# Days Observed	0	2	6	3	1	0	0	12
	First Date: May 2- 9		Last Date: May 21- 1			Peak Date: May 12- 71		

Mallard (*Anas platyrhynchos*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	12.86	5.29	6.00	2.71	3.29	4.14	12.43	6.67
# Days Observed	7	7	7	7	7	7	7	49
	First Date: April 23- 9		Last Date: June 10- 70			Peak Date: June 10- 70		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	1.86	0	0.57	0.57	2.43	0.71	0.29	0	2.29	1.71	0.20	1.00	0.99
# Days Observed	4	0	3	4	5	3	2	0	4	5	1	2	33
	First Date: July 12- 1				Last Date: September 29- 2				Peak Date: August 14- 7				

Blue-winged Teal (*Anas discors*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	1.86	2.57	1.29	0.57	0	0.90
# Days Observed	0	0	3	4	3	3	0	13
	First Date: May 11- 5		Last Date: June 1- 1			Peak Date: May 18- 9		

Northern Shoveler (*Anas clypeata*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	12.86	2.43	0	0	0	2.18
# Days Observed	0	0	5	2	0	0	0	7
	First Date: May 8- 3		Last Date: May 17- 9			Peak Date: May 12- 42		

Northern Pintail (*Anas acuta*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	6.43	0.14	14.43	0	0	0	0	3.00
# Days Observed	2	1	5	0	0	0	0	8
	First Date: April 24- 5		Last Date: May 13- 2			Peak Date: April 25- 40		

American Green-winged Teal (*Anas crecca carolinensis*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0.57	15.14	0.71	0.29	0.14	0	2.41
# Days Observed	0	1	5	1	1	1	0	9
	First Date: May 6- 4		Last Date: May 31- 1			Peak Date: May 13- 42		

Ring-necked Duck (*Aythya collaris*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	3.57	0.29	0	0	0	0.55
# Days Observed	0	0	3	1	0	0	0	4
	First Date: May 11- 2		Last Date: May 18- 2			Peak Date: May 13- 13		

Greater Scaup (*Aythya marila*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	1.14	0.57	0	0	0	0.24
# Days Observed	0	0	2	1	0	0	0	3
	First Date: May 11- 2		Last Date: May 15- 4			Peak Date: May 13- 6		

Note: flocks of scaup flying at a distance are recorded as unidentified scaup

Lesser Scaup (*Aythya affinis*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	0.43	0	0	0	0	0.06
# Days Observed	0	0	1	0	0	0	0	1
	First Date: May 9- 3		Last Date: May 9- 3			Peak Date: May 9- 3		

Note: flocks of scaup flying at a distance are recorded as unidentified scaup

Surf Scoter (*Melanitta perspicillata*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	2.86	18.00	67.29	8.00	0	13.73
# Days Observed	0	0	1	2	6	4	0	13
	First Date: May 13- 20		Last Date: June 2- 4			Peak Date: May 21- 407		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0	0	0	0	0	0	0	0.14	0	0	0	0	0.01
# Days Observed	0	0	0	0	0	0	0	1	0	0	0	0	1
	First Date: September 5- 1				Last Date: September 5- 1				Peak Date: September 5- 1				

White-winged Scoter (*Melanitta fusca*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	0	3.00	2.14	0.14	0	0.76
# Days Observed	0	0	0	3	4	1	0	8
	First Date: May 17- 1		Last Date: May 28- 1			Peak Date: May 20- 17		

Long-tailed Duck (*Clangula hyemalis*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	0	7.57	14.00	17.14	0	5.53
# Days Observed	0	0	0	3	4	1	0	8
	First Date: May 14- 1		Last Date: May 29- 120			Peak Date: May 29- 120		

Bufflehead (*Bucephala albeola*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0.57	1.29	1.00	0.71	0.29	0	0.55
# Days Observed	0	1	3	3	3	1	0	11
	First Date: May 6- 4		Last Date: May 28- 2			Peak Date: May 7- 5		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0	0	0.14	0	0	0	0	0	2.71	0.57	2.20	2.25	0.56
# Days Observed	0	0	1	0	0	0	0	0	4	1	3	3	12
	First Date: July 28- 1				Last Date: September 30- 2				Peak Date: September 9- 7				

Common Goldeneye (*Bucephala clangula*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	2.00	6.43	17.00	21.57	12.14	6.57	1.86	9.65
# Days Observed	4	7	7	7	7	7	4	43
	First Date: April 23- 4		Last Date: June 10- 2			Peak Date: May 12- 36		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0.43	0.43	0.14	0.29	0	4.14	0.29	0.71	1.14	5.00	7.40	6.50	1.91
# Days Observed	3	3	1	2	0	2	1	2	4	4	5	3	30
	First Date: July 13- 1				Last Date: September 30- 12				Peak Date: August 22- 25				

Common Merganser (*Mergus merganser*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	1.29	4.14	15.14	9.71	11.86	16.29	27.86	12.33
# Days Observed	3	5	7	7	4	6	5	37
	First Date: April 26- 4		Last Date: June 9- 25			Peak Date: June 4- 135		

Common Merganser (*Mergus merganser*)

	JULY			AUGUST				SEPTEMBER				OCTOBER	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0.14	1.00	1.14	0.14	2.86	5.43	10.57	7.43	8.14	3.14	5.80	2.50	4.04
# Days Observed	1	1	1	1	1	3	4	4	6	5	4	4	35
	First Date: July 14- 1				Last Date: September 30- 4				Peak Date: August 29- 28				

Red-breasted Merganser (*Mergus serrator*)

	APRIL	MAY				JUNE		
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	4.71	2.71	3.71	1.29	0.86	1.90
# Days Observed	0	0	4	4	5	2	2	17
	First Date: May 9- 10		Last Date: June 6- 2			Peak Date: May 10- 11		

	JULY			AUGUST				SEPTEMBER				OCTOBER	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0	0	0.29	0	0	0	0	0	0	0	0	0	0.03
# Days Observed	0	0	1	0	0	0	0	0	0	0	0	0	1
	First Date: July 26- 2				Last Date: July 26- 2				Peak Date: July 26- 2				

Ruffed Grouse (*Bonasa umbellus*)

	APRIL	MAY				JUNE		
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	1.14	1.29	1.14	1.00	0.86	0.57	0.86	0.98
# Days Observed	6	7	7	7	6	4	5	42
	First Date: April 23- 1		Last Date: June 9- 1			Peak Date: 6 Dates- 2		

	JULY			AUGUST				SEPTEMBER				OCTOBER	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0.14	0	0.14	1.43	0	0	0	0	0.14	0.29	0.40	0.50	0.24
# Days Observed	1	0	1	2	0	0	0	0	1	2	1	2	10
	First Date: July 16- 1				Last Date: September 30- 1				Peak Date: August 3- 8				

Pacific Loon (*Gavia pacifica*)

	APRIL	MAY				JUNE		
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	0	0	0	5.71	0	0.82
# Days Observed	0	0	0	0	0	1	0	1
	First Date: May 31- 40			Last Date: May 31- 40			Peak Date: May 31- 40	

Note: only the third year this species has been observed, previously observed in 2004 and 2009.

Common Loon (*Gavia immer*)

	APRIL	MAY				JUNE		
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	2.43	1.86	3.43	4.00	1.43	1.88
# Days Observed	0	0	6	7	7	7	6	33
	First Date: May 8- 1			Last Date: June 9- 2			Peak Date: May 29- 9	

	JULY			AUGUST				SEPTEMBER				OCTOBER	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	1.86	1.14	4.57	3.57	1.71	1.43	0.57	0.71	2.00	0.86	0.40	0.25	1.67
# Days Observed	6	5	7	6	7	4	4	4	4	4	1	1	53
	First Date: July 12- 3				Last Date: September 27- 1				Peak Date: July 29- 16				

Horned Grebe (*Podiceps auritus*)

	JULY			AUGUST				SEPTEMBER				OCTOBER	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0	0	0	0	0	0	0	0	0	0	0.20	0	0.01
# Days Observed	0	0	0	0	0	0	0	0	0	0	1	0	1
	First Date: September 26- 1				Last Date: September 26- 1				Peak Date: September 26- 1				

Red-Necked Grebe (*Podiceps grisegena*)

	APRIL	MAY				JUNE		
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	0.86	1.00	1.43	1.00	0.57	0.69
# Days Observed	0	0	1	4	5	5	3	18
	First Date: May 13- 6		Last Date: June 9- 1			Peak Date: May 13- 6		

Red-Necked Grebe (*Podiceps grisegena*)

	JULY			AUGUST				SEPTEMBER				OCTOBER	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0.14	0	2.00	3.43	1.86	2.86	1.57	1.71	2.29	1.43	2.40	1.50	1.76
# Days Observed	1	0	5	5	5	6	5	4	6	6	4	4	51
	First Date: July 16- 1				Last Date: September 30- 1				Peak Date: August 4- 14				

Western Grebe (*Aechmophorus occidentalis*)

	APRIL	MAY				JUNE		
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	0	0	0	0.29	0	0.04
# Days Observed	0	0	0	0	0	1	0	1
	First Date: May 31- 2			Last Date: May 31- 2			Peak Date: May 31- 2	

	JULY			AUGUST				SEPTEMBER				OCTOBER	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0	0	0	0.43	0.14	0	0.14	0.14	0.86	0	0	0	0.15
# Days Observed	0	0	0	2	1	0	1	1	1	0	0	0	6
	First Date: August 3- 2				Last Date: September 6- 6				Peak Date: September 6- 6				

Double-crested Cormorant (*Phalacrocorax auritus*)

	APRIL	MAY				JUNE		
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	0	1.43	0	0	0	0.20
# Days Observed	0	0	0	1	0	0	0	1
	First Date: May 14- 10			Last Date: May 14- 10			Peak Date: May 14- 10	

	JULY			AUGUST				SEPTEMBER				OCTOBER	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0.14	0	0	0	0	0.29	0.14	0	0	0.57	0	0	0.10
# Days Observed	1	0	0	0	0	1	1	0	0	1	0	0	4
	First Date: July 18- 1				Last Date: September 14- 4				Peak Date: September 14- 4				

American White Pelican (*Pelecanus erythrorhynchos*)

	APRIL	MAY				JUNE		
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0.57	0	0	0	0	0	1.71	0.33
# Days Observed	1	0	0	0	0	0	1	2
	First Date: April 26- 4			Last Date: June 10- 12			Peak Date: June 10- 12	

	JULY			AUGUST				SEPTEMBER				OCTOBER	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0	0	0.43	0	0	0	0.43	0.57	1.14	0.14	0	0	0.24
# Days Observed	0	0	3	0	0	0	1	2	1	1	0	0	8
	First Date: July 26- 1				Last Date: September 14- 1				Peak Date: September 10- 8				

Great Blue Heron (*Ardea herodias*)

	APRIL	MAY				JUNE		
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0.14	0	0	0	0.14	0	0	0.04
# Days Observed	1	0	0	0	1	0	0	2
	First Date: April 25- 1			Last Date: May 21- 1			Peak Date: All Dates- 1	

	JULY			AUGUST				SEPTEMBER				OCTOBER	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0	0	0	0.14	0.29	0	0	0	0	0	0	0	0.04
# Days Observed	0	0	0	1	1	0	0	0	0	0	0	0	2
	First Date: August 6- 1				Last Date: August 14- 2				Peak Date: August 14- 2				

Osprey (*Pandion haliaetus*)

	APRIL	MAY				JUNE		
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0.43	0	0	0	0.14	0	0.08
# Days Observed	0	1	0	0	0	1	0	2
	First Date: April 30- 3			Last Date: May 28- 1			Peak Date: April 30- 3	

	JULY			AUGUST				SEPTEMBER				OCTOBER	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0.14	0.43	0.29	0	0.43	0.29	0.14	0.29	0	0	0	0.50	0.20
# Days Observed	1	3	2	0	2	1	1	2	0	0	0	1	13
	First Date: July 14- 1				Last Date: September 27- 2				Peak Date: 3 dates- 2				

Bald Eagle (*Haliaeetus leucocephalus*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	2.00	1.14	2.00	2.57	1.43	1.14	1.14	1.63
# Days Observed	6	6	7	7	7	6	7	46
	First Date: April 23- 1		Last Date: June 10- 1			Peak Date: April 26- 6		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0.71	1.00	1.00	1.14	1.86	2.14	1.86	3.71	1.86	2.00	1.80	2.25	1.76
# Days Observed	5	6	5	7	7	7	7	7	7	7	4	4	73
	First Date: July 13- 1			Last Date: September 30- 3					Peak Date: 3 dates- 5				

Northern Harrier (*Circus cyaneus*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	1.71	5.00	1.57	0.71	0.29	0.43	0	1.39
# Days Observed	3	6	3	3	2	2	0	19
	First Date: April 23- 1		Last Date: June 1- 1			Peak Date: May 6- 14		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0.14	0.57	0.14	0.71	3.29	1.86	0.29	0.14	0	0.86	0.60	0	0.75
# Days Observed	1	3	1	4	5	4	2	1	0	4	2	0	27
	First Date: July 14- 1			Last Date: September 24- 2					Peak Date: August 15- 10				

Sharp-shinned Hawk (*Accipiter striatus*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	2.71	0.57	0.29	0	0.14	0	0	0.53
# Days Observed	1	3	2	0	1	0	0	7
# Processed	0	1	0	0	1	0	0	2
	First Date: April 26- 19		Last Date: May 25- 1			Peak Date: April 26- 19		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0	0.14	0.14	1.00	6.43	8.14	9.71	5.57	7.00	6.14	3.60	4.25	4.37
# Days Observed	0	1	1	6	7	7	7	6	7	7	3	3	55
# Processed	0	1	0	1	4	5	12	7	8	6	2	4	50
	First Date: July 22- 1			Last Date: September 29- 2					Peak Date: August 22- 21				

Note: record number of fall banding records.

Cooper's Hawk (*Accipiter cooperii*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0.14	0	0	0.14	0	0	0	0.04
# Days Observed	1	0	0	1	0	0	0	2
	First Date: April 28- 1		Last Date: May 15- 1			Peak Date: All dates- 1		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0	0	0	0	0	0	0	0	0.14	0	0	0	0.01
# Days Observed	0	0	0	0	0	0	0	0	1	0	0	0	1
	First Date: September 6- 1			Last Date: September 6- 1					Peak Date: September 6- 1				

Northern Goshawk (*Accipiter gentilis*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0.14	0.14	0	0	0	0	0	0.04
# Days Observed	1	1	0	0	0	0	0	2
	First Date: April 26- 1		Last Date: April 30- 1			Peak Date: All dates- 1		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0	0	0	0	0	0	0.29	0	0.14	0.14	0	0	0.05
# Days Observed	0	0	0	0	0	0	2	0	1	1	0	0	4
	First Date: August 23- 1			Last Date: September 16- 1					Peak Date: All dates- 1				

Broad-winged Hawk (*Buteo platypterus)*

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0.57	0	0	0	0	0	0	0.08
# Days Observed	1	0	0	0	0	0	0	1
	First Date: April 26- 4		Last Date: April 26- 4			Peak Date: April 26- 4		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0	0	0	0	0	0	0.14	0	0	0	0	0	0.01
# Days Observed	0	0	0	0	0	0	1	0	0	0	0	0	1
	First Date: August 23- 1			Last Date: August 23- 1				Peak Date: August 23- 1					

Red-tailed Hawk (*Buteo jamaicensis*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0.71	0	0	0	0	0	0	0.10
# Days Observed	1	0	0	0	0	0	0	1
	First Date: April 26- 5		Last Date: April 26- 5			Peak Date: April 26- 5		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0	0	0	0	0	0.29	0.29	0	0.29	0	1.20	0	0.15
# Days Observed	0	0	0	0	0	2	2	0	2	0	1	0	7
	First Date: August 16- 1			Last Date: September 25- 6				Peak Date: September 25- 6					

Rough-legged Hawk (*Buteo lagopus*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	1.86	0	0	0	0	0	0	0.27
# Days Observed	1	0	0	0	0	0	0	1
	First Date: April 26- 13		Last Date: April 26- 13			Peak Date: April 26- 13		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0	0	0	0	0	0	0	0	0	0	0.60	0.50	0.06
# Days Observed	0	0	0	0	0	0	0	0	0	0	2	2	4
	First Date: September 23- 1			Last Date: September 29- 1				Peak Date: September 25- 2					

Sandhill Crane (*Grus canadensis*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	1.14	67.71	3.29	0	0	0	0	10.31
# Days Observed	1	3	2	0	0	0	0	6
	First Date: April 26- 8		Last Date: May 10- 10			Peak Date: May 1- 220		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0	0	0	0	0	0	0	0	120.71	2.57	26.40	0	12.59
# Days Observed	0	0	0	0	0	0	0	0	1	1	1	0	3
	First Date: September 8- 845			Last Date: September 23- 132				Peak Date: September 8- 845					

Killdeer (*Charadrius vociferous*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Total
Mean # Birds/Day	0.14	0	0.29	0.29	0.14	0	0	0.12
# Days Observed	1	0	2	2	1	0	0	6
	First Date: April 28- 1		Last Date: May 21- 1			Peak Date: All Dates- 1		

Spotted Sandpiper (*Actitis macularius*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	1.29	1.00	2.71	3.00	1.43	1.35
# Days Observed	0	0	5	5	7	7	7	31
	First Date: May 9- 3		Last Date: June 10- 1			Peak Date: May 21- 5		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	1.57	0.57	1.29	1.43	0.71	1.14	1.43	1.00	0.71	0.43	0	0	0.91
# Days Observed	6	3	7	5	5	3	4	3	2	3	0	0	41
	First Date: July 13- 4			Last Date: September 18- 1				Peak Date: September 4- 5					

Greater Yellowlegs (*Tringa melanoleuca*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0.43	0.43	0.71	3.14	0	0.14	0	0.69
# Days Observed	3	3	3	3	0	1	0	13
	First Date: April 23- 1		Last Date: May 31- 1			Peak Date: May 14- 20		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0	0	0.43	0.57	0.43	0.71	0.14	0	0	0	0	0	0.20
# Days Observed	0	0	3	3	2	4	1	0	0	0	0	0	13
	First Date: July 27- 1				Last Date: August 29- 1				Peak Date: 3 dates- 2				

Note: a number of yellowlegs are not positively identified and are recorded as unidentified yellowlegs.

Lesser Yellowlegs (*Tringa flavipes*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0.14	0.43	0	0	0	0	0.08
# Days Observed	0	1	2	0	0	0	0	3
	First Date: May 6- 1		Last Date: May 12- 2			Peak Date: May 12- 2		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0.14	0	0	0.14	0	0	0	0	0	0	0	0	0.03
# Days Observed	1	0	0	1	0	0	0	0	0	0	0	0	2
	First Date: July 17- 1				Last Date: August 3- 1				Peak Date: 2 dates- 1				

Note: a number of yellowlegs are not positively identified and are recorded as unidentified yellowlegs.

Baird's Sandpiper (*Calidris bairdii*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	0.86	0	0	0	0	0.12
# Days Observed	0	0	1	0	0	0	0	1
	First Date: May 10- 6		Last Date: May 10- 6			Peak Date: May 10- 6		

Least Sandpiper (*Calidris minutilla*)

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0	0	0	0.14	0	0	0	0	0	0	0	0	0.01
# Days Observed	0	0	0	1	0	0	0	0	0	0	0	0	1
	First Date: August 8- 1				Last Date: August 8- 1				Peak Date: August 8- 1				

Short-billed Dowitcher (*Limnodromus griseus*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	0	0	17.14	0	0	2.45
# Days Observed	0	0	0	0	1	0	0	1
	First Date: May 22- 120		Last Date: May 22- 120			Peak Date: May 22- 120		

Common Snipe (*Gallinago gallinago*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0.14	0.29	0.86	0.86	0.43	0	0	0.37
# Days Observed	1	2	6	6	3	0	0	18
	First Date: April 29- 1		Last Date: May 25- 1			Peak Date: All Dates- 1		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0	0	0	0.14	0	0	0	0	0	0	0	0	0.01
# Days Observed	0	0	0	1	0	0	0	0	0	0	0	0	1
	First Date: August 3- 1				Last Date: August 3- 1				Peak Date: August 3- 1				

Bonaparte's Gull (*Chroicocephalus philadelphia*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	1.43	0	1.00	0	0	0	0	0.35
# Days Observed	1	0	3	0	0	0	0	4
	First Date: April 29- 10		Last Date: May 13- 1			Peak Date: April 29- 10		

Franklin's Gull (*Leucophaeus pipixcan*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	2.14	13.29	214.57	25.43	4.86	0.14	0.71	37.31
# Days Observed	1	3	7	7	3	1	1	23
	First Date: April 29- 15		Last Date: June 9- 5			Peak Date: May 7- 440		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	93.14	229.00	15.00	17.14	17.14	57.86	32.29	0.14	7.14	0	70.00	0	45.97
# Days Observed	4	5	2	2	3	3	3	1	2	0	1	0	26
	First Date: July 13- 12				Last Date: September 22- 350				Peak Date: July 19- 850				

Mew Gull (*Larus canus*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0.29	4.14	0.14	0	0	0	0.65
# Days Observed	0	1	4	1	0	0	0	6
	First Date: May 2- 2		Last Date: May 16- 1			Peak Date: May 10- 11		

Ring-billed Gull (*Larus delawarensis*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	3.43	6.43	4.14	1.14	2.43	0.57	0	2.59
# Days Observed	5	4	3	3	3	1	0	19
	First Date: April 23- 4		Last Date: May 30- 4			Peak Date: May 5- 25		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	10.71	16.86	1.57	0	4.71	14.14	12.00	6.29	1.43	0.71	2.20	1.25	6.27
# Days Observed	2	5	2	0	2	6	5	7	4	2	2	3	40
	First Date: July 14- 50				Last Date: September 30- 2				Peak Date: July 20- 65				

Note: a number of gulls are recorded as unidentified, particularly the juveniles in the fall.

California Gull (*Larus californicus*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	0	0.43	0	0	0	0.06
# Days Observed	0	0	0	1	0	0	0	1
	First Date: May 18- 3		Last Date: May 18- 3			Peak Date: May 18- 3		

Herring Gull (*Larus argentatus*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0.14	10.14	0.86	1.00	0.14	0.14	1.78
# Days Observed	0	1	5	2	2	1	1	12
	First Date: May 2- 1		Last Date: June 5- 1			Peak Date: May 12- 35		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0	0.43	0	0.14	0.71	0.86	0	1.43	0.43	0	0.40	0.25	0.39
# Days Observed	0	1	0	1	3	2	0	3	2	0	1	1	14
	First Date: July 20- 3				Last Date: September 30- 1				Peak Date: September 3- 7				

Black Tern (*Chlidonias niger*)

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0	0	0	0	0	0	0	0	0.14	0	0	0	0.01
# Days Observed	0	0	0	0	0	0	0	0	1	0	0	0	1
	First Date: September 6- 1				Last Date: September 6- 1				Peak Date: September 6- 1				

Note: black terms are rarely encountered during the migration monitoring

Common Tern (*Sterna hirundo*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	0	0.43	1.57	2.00	0.57	0.65
# Days Observed	0	0	0	2	6	5	4	17
	First Date: May 17- 2		Last Date: June 9- 1			Peak Date: May 30- 7		

Common Tern (*Sterna hirundo*)

	JULY			AUGUST				SEPTEMBER				OCTOBER	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0.71	0.86	0.71	0.71	0.57	1.00	0.86	0.71	1.43	3.57	0	0	0.99
# Days Observed	4	3	4	3	2	4	2	4	1	1	0	0	28
	First Date: July 12- 2				Last Date: September 19- 25				Peak Date: September 19- 25				

Forster's Tern (*Sterna forsteri*)

	APRIL	MAY				JUNE		
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	0	0	0	0.14	0.14	0.04
# Days Observed	0	0	0	0	0	1	1	2
	First Date: May 30- 1			Last Date: June 6- 1			Peak Date: All Dates- 1	

	JULY			AUGUST				SEPTEMBER				OCTOBER	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0	0	0	0.43	0.14	0	0	0	0	0	0	0	0.05
# Days Observed	0	0	0	1	1	0	0	0	0	0	0	0	2
	First Date: August 5- 3				Last Date: August 9- 1				Peak Date: August 5- 3				

Mourning Dove (*Zenaida macroura*)

	APRIL	MAY				JUNE		
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	0	0.29	0	0	0	0.04
# Days Observed	0	0	0	1	0	0	0	1
	First Date: May 18- 2			Last Date: May 18- 2			Peak Date: May 18- 2	

Barred Owl (*Strix varia*)

	APRIL	MAY				JUNE		
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	0.14	0	0	0	0	0.02
# Days Observed	0	0	1	0	0	0	0	1
	First Date: May 11- 1			Last Date: May 11- 1			Peak Date: May 11- 1	

	JULY			AUGUST				SEPTEMBER				OCTOBER	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0	0	0.14	0	0	0	0	0	0	0	0	0	0.01
# Days Observed	0	0	1	0	0	0	0	0	0	0	0	0	1
	First Date: July 27- 1				Last Date: July 27- 1				Peak Date: July 27- 1				

Common Nighthawk (*Chordeiles minor*)

	JULY			AUGUST				SEPTEMBER				OCTOBER	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0	0	0	0	0.14	0	0	0	0	0	0	0	0.01
# Days Observed	0	0	0	0	1	0	0	0	0	0	0	0	1
	First Date: August 14- 1				Last Date: August 14- 1				Peak Date: August 14- 1				

Note: usually only one individual encountered each year.

Ruby-throated Hummingbird (*Archilochus colubris*)

	APRIL	MAY				JUNE		
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	0	0	0	0.29	0	0.04
# Days Observed	0	0	0	0	0	1	0	1
	First Date: May 31- 2			Last Date: May 31- 2			Peak Date: May 31- 2	

Belted Kingfisher (*Megaceryle alcyon*)

	APRIL	MAY				JUNE		
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0.29	2.29	1.00	1.43	1.00	0.57	0.94
# Days Observed	0	2	5	6	7	6	3	29
	First Date: May 2- 1			Last Date: June 9- 2			Peak Date: May 12- 8	

	JULY			AUGUST				SEPTEMBER				OCTOBER	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	1.14	1.00	1.29	1.00	0.57	0.43	0.86	0.29	0.14	0	0	0	0.59
# Days Observed	7	6	6	5	4	3	5	2	1	0	0	0	39
	First Date: July 12- 2				Last Date: September 8- 1				Peak Date: 8 dates- 2				

Yellow-bellied Sapsucker (*Sphyrapicus varius*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0.43	3.00	3.43	1.43	1.29	0.14	1.39
# Days Observed	0	2	7	7	7	6	1	30
# Processed	0	0	3	4	0	0	0	7
	First Date: May 2- 2		Last Date: June 6- 1			Peak Date: 4 dates- 5		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	1.29	0.14	0.43	0.71	0.29	0.14	0.14	0	0	0.29	0	0	0.30
# Days Observed	5	1	2	4	2	1	1	0	0	2	0	0	18
# Processed	3	1	3	2	1	0	1	0	0	1	0	0	12
	First Date: July 12- 1				Last Date: September 18- 1				Peak Date: July 13- 3				

Downy Woodpecker (*Picoides pubescens*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0.14	0.29	0	0.29	0	0	0	0.10
# Days Observed	1	1	0	2	0	0	0	4
	First Date: April 28- 1		Last Date: May 20- 1			Peak Date: April 30- 2		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0.43	0.29	0.29	0.71	0.43	0	0	0.14	0	0.14	0	0.50	0.24
# Days Observed	3	2	2	3	3	0	0	1	0	1	0	2	17
# Processed	0	1	1	0-0-1	0	0	0	0	0	1	0	1	4-0-1
	First Date: July 12- 1				Last Date: September 29- 1				Peak Date: August 3- 3				

Hairy Woodpecker (*Picoides villosus*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0.14	0	0.14	0.29	0.14	0	0.10
# Days Observed	0	1	0	1	2	1	0	5
# Processed	0	0	0	0	0	1	0	1
	First Date: May 4- 1		Last Date: June 3- 1			Peak Date: All Dates- 1		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	1.00	1.29	1.57	0.71	0.43	0.57	0.29	0.14	0.57	0.71	0.40	0.50	0.70
# Days Observed	7	4	6	4	3	3	2	1	3	5	2	1	41
# Processed	0	4-0-2	3-0-3	1	0	0	0	0	0	0-0-1	0	0	8-0-6
	First Date: July 12- 1				Last Date: September 29- 2				Peak Date: July 21- 4				

Northern Flicker (*Colaptes auratus*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0.29	8.29	12.00	3.00	0.29	0	0	3.41
# Days Observed	2	7	7	7	2	0	0	25
	First Date: April 26- 1		Last Date: May 22- 1			Peak Date: May 8- 49		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0	0.29	0.43	0	1.29	0.71	0.43	0.14	1.14	0.29	0.40	0	0.44
# Days Observed	0	2	2	0	7	5	3	1	4	2	2	0	28
# Processed	0	0	0	0	1	0	0	0	2	0	0	0	3
	First Date: July 19- 1				Last Date: September 25- 1				Peak Date: September 10- 3				

Note: All northern flickers encountered were yellow-shafted flickers.

Pileated Woodpecker (*Dryocopus pileatus*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0.29	0.29	0.29	0.14	0	0	0.14
# Days Observed	0	1	2	2	1	0	0	6
	First Date: May 5- 2		Last Date: May 22- 1			Peak Date: May 5- 2		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0	0	0	0	0.29	0	0	0	0	0	0	0	0.03
# Days Observed	0	0	0	0	2	0	0	0	0	0	0	0	2
	First Date: August 12- 1				Last Date: August 13- 1				Peak Date: All dates- 1				

American Kestrel (*Falco sparverius*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0.71	0	0	0	0	0	0	0.10
# Days Observed	2	0	0	0	0	0	0	2
	First Date: April 24- 2		Last Date: April 26- 3			Peak Date: April 26- 3		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0	0	0	0	0.14	0.14	0.14	0	0	0	0	0	0.04
# Days Observed	0	0	0	0	1	1	1	0	0	0	0	0	3
	First Date: August 15- 1				Last Date: August 29- 1				Peak Date: All dates- 1				

Merlin (*Falco columbarius*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	1.00	0.43	0.71	0.29	0.71	0.43	0.14	0.53
# Days Observed	3	3	5	2	5	2	1	21
	First Date: April 24- 3		Last Date: June 4- 1			Peak Date: April 24 & 26- 3		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0	0.14	0.43	0.71	1.86	0.86	1.00	0.14	0.86	0.86	0	0	0.61
# Days Observed	0	1	2	4	4	3	4	1	3	4	0	0	26
	First Date: July 23- 1				Last Date: September 18- 1				Peak Date: August 13- 5				

Peregrine Falcon (*Falco peregrinus*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0.71	0.14	0.43	0	0.14	0	0	0.20
# Days Observed	2	1	2	0	1	0	0	6
	First Date: April 25- 1		Last Date: May 24- 1			Peak Date: April 26- 4		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0	0	0	0	0	0	0	0	0	0.14	0	0	0.01
# Days Observed	0	0	0	0	0	0	0	0	0	1	0	0	1
	First Date: September 13- 1				Last Date: September 13- 1				Peak Date: September 13- 1				

Olive-sided Flycatcher (*Contopus cooperi*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	0	0	0.14	0	0	0.02
# Days Observed	0	0	0	0	1	0	0	1
	First Date: May 22- 1		Last Date: May 22- 1			Peak Date: May 22- 1		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0	0	0	0	0.29	0.14	0	0	0	0	0	0	0.04
# Days Observed	0	0	0	0	1	1	0	0	0	0	0	0	2
	First Date: August 12- 2				Last Date: August 16- 1				Peak Date: August 12- 2				

Note: Usually only one individual is sighted and not observed every year.

Western Wood-pewee (*Contopus sordidulus*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	0	0	0	0.29	0.14	0.06
# Days Observed	0	0	0	0	0	2	1	3
	First Date: May 28- 1		Last Date: June 9- 1			Peak Date: All Dates- 1		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0.14	0	0.14	0	0	0	0	0	0	0	0	0	0.03
# Days Observed	1	0	1	0	0	0	0	0	0	0	0	0	2
	First Date: July 12- 1				Last Date: July 27- 1				Peak Date: All dates- 1				

Alder Flycatcher (*Empidonax alnorum*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	0	0	0.14	2.71	2.71	0.80
# Days Observed	0	0	0	0	1	7	7	15
# Processed	0	0	0	0	1	9	7	17
	First Date: May 26- 1		Last Date: June 10- 1			Peak Date: June 1,2,&7- 5		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0.57	1.71	2.00	2.71	3.14	3.00	2.00	0.43	0	0	0	0	1.38
# Days Observed	4	5	7	7	6	6	4	3	0	0	0	0	42
# Processed	0-1-0	3	2	9-0-1	19	15	10	3	0	0	0	0	61-1-1
	First Date: July 12- 1				Last Date: September 3- 1				Peak Date: August 3- 8				

Least Flycatcher (*Empidonax minimus*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	0.29	2.71	8.29	4.86	0.57	2.39
# Days Observed	0	0	1	6	7	6	3	23
# Processed	0	0	1	3	15	10	0	29
	First Date: May 13- 2		Last Date: June 10- 1			Peak Date: May 22- 13		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0.43	0.86	3.57	2.71	2.86	0.14	0.14	0.14	0	0	0	0	0.96
# Days Observed	2	4	6	5	6	1	1	1	0	0	0	0	26
# Processed	1	2	10	8	2	0	1	0	0	0	0	0	24
	First Date: July 12- 2				Last Date: September 2- 1				Peak Date: July 29- 7				

Eastern Phoebe (*Sayornis phoebe*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0.71	1.43	2.43	2.29	1.14	1.71	1.39
# Days Observed	0	4	6	7	7	7	7	38
# Processed	0	0	3	3	0	0	0	6
	First Date: April 30- 2		Last Date: June 10- 1			Peak Date: May 12 & 14- 4		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0.43	0	0.43	0.29	0.29	0.14	0.14	0	0	0	0	0	0.15
# Days Observed	3	0	3	1	1	1	1	0	0	0	0	0	10
	First Date: July 15- 1				Last Date: August 28- 1				Peak Date: August 4 & 12- 2				

Say's Phoebe (*Sayornis saya*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0.29	0.14	0.14	0.14	0	0	0.10
# Days Observed	0	1	1	1	1	0	0	4
	First Date: May 1- 2		Last Date: May 21- 1			Peak Date: May 1- 2		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0	0	0	0	0	0	0.14	0	0	0	0	0	0.01
# Days Observed	0	0	0	0	0	0	1	0	0	0	0	0	1
	First Date: August 24- 1				Last Date: August 24- 1				Peak Date: August 24- 1				

Great Crested Flycatcher (*Myiarchus crinitus*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	0	0	0	0.14	0	0.02
# Days Observed	0	0	0	0	0	1	0	1
	First Date: May 29- 1		Last Date: May 29- 1			Peak Date: May 29- 1		

Note: First observation for this species at the LSLBO; represents the 252 species observed during monitoring activities.

Eastern Kingbird (*Tyrannus tyrannus*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	0	0	1.00	2.14	0.14	0.47
# Days Observed	0	0	0	0	3	4	1	8
	First Date: May 25- 2		Last Date: June 9- 1			Peak Date: May 30- 8		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0	0	0	0	15.43	1.43	1.71	0	0	0	0	0	1.65
# Days Observed	0	0	0	0	5	3	4	0	0	0	0	0	12
	First Date: August 11- 3				Last Date: August 28- 1				Peak Date: August 14- 46				

Blue-headed Vireo (*Vireo solitaries*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	0	0.14	0.71	0.57	0.14	0.22
# Days Observed	0	0	0	1	5	3	1	10
	First Date: May 17- 1		Last Date: June 4- 1			Peak Date: May 29- 2		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0.57	0.71	1.14	0.14	0.43	0.14	0	0	0	0	0	0	0.28
# Days Observed	4	4	4	1	2	1	0	0	0	0	0	0	16
# Processed	0	0	1	0	0	0	0	0	0	0	0	0	1
	First Date: July 14- 1				Last Date: August 16- 1				Peak Date: July 27- 3				

Warbling Vireo (*Vireo gilvus*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	0	0.14	0.29	0.57	0.29	0.18
# Days Observed	0	0	0	1	2	3	2	8
	First Date: May 19- 1		Last Date: June 8- 1			Peak Date: June 3- 2		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0	0.14	0.14	0	0.43	0	0.14	0	0	0	0	0	0.08
# Days Observed	0	1	1	0	3	0	1	0	0	0	0	0	6
# Processed	0	0	1	0	2	0	0	0	0	0	0	0	3
	First Date: July 23- 1				Last Date: August 28- 1				Peak Date: All dates- 1				

Philadelphia Vireo (*Vireo philadelphicus*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	0	0.14	1.00	1.00	0.29	0.35
# Days Observed	0	0	0	1	4	4	2	11
	First Date: May 20- 1		Last Date: June 7- 1			Peak Date: May 21 & June 1- 3		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0.14	0	0.14	0	0	0	0.29	0	0	0	0	0	0.05
# Days Observed	1	0	1	0	0	0	2	0	0	0	0	0	4
	First Date: July 17- 1				Last Date: August 28- 1				Peak Date: All dates- 1				

Red-eyed Vireo (*Vireo olivaceus*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	0	0	0.86	3.57	3.43	1.12
# Days Observed	0	0	0	0	4	7	7	18
# Processed	0	0	0	0	0	1	1	2
	First Date: May 22- 1		Last Date: June 10- 2			Peak Date: June 2- 7		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	5.43	3.14	5.00	4.57	5.29	1.71	0.71	0	0	0	0	0	2.29
# Days Observed	7	6	7	6	7	5	4	0	0	0	0	0	42
# Processed	5	1	2	2	3	2	0	0	0	0	0	0	15
	First Date: July 12- 6				Last Date: August 28- 1				Peak Date: August 1- 11				

Gray Jay (*Perisoreus canadensis*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	0	0	0.29	0	0.29	0.08
# Days Observed	0	0	0	0	1	0	2	3
	First Date: May 22- 2		Last Date: June 8- 1			Peak Date: May 22- 2		

Blue Jay (*Cyanocitta cristata*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	1.00	0.14	0.43	1.43	1.00	0.43	0.71	0.73
# Days Observed	4	1	2	5	7	3	4	26
	First Date: April 26- 1		Last Date: June 9- 2			Peak Date: April 24 & May 18- 4		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0	2.14	3.71	1.43	1.86	1.57	1.14	0.57	0.43	1.14	0.20	0	1.25
# Days Observed	0	3	7	5	6	7	7	4	3	4	1	0	47
# Processed	0	0	1	0	2	0	0	0	0	0	0	0	3
	First Date: July 21- 1				Last Date: September 22- 1				Peak Date: July 24- 8				

Black-billed Magpie (*Pica hudsonia*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0.86	0	0.71	0.57	1.14	0.14	0.14	0.51
# Days Observed	2	0	3	2	4	1	1	13
	First Date: April 24- 1		Last Date: June 4- 1			Peak Date: April 26- 5		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0	0	0	0	0	0	0	0	0	0.43	0.80	0.50	0.11
# Days Observed	0	0	0	0	0	0	0	0	0	3	2	1	6
	First Date: September 15- 1				Last Date: September 27- 2				Peak Date: September 22- 3				

American Crow (*Corvus brachyrhynchos*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	5.57	4.71	7.29	6.29	3.86	2.57	2.43	4.67
# Days Observed	7	7	7	7	7	7	7	49
	First Date: April 23- 6		Last Date: June 10- 2			Peak Date: May 12 & 16- 12		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	4.14	5.71	3.71	9.57	7.43	5.57	9.14	3.29	1.29	1.43	0.40	0.25	4.58
# Days Observed	7	7	7	7	7	7	7	7	4	1	2	1	64
	First Date: July 12- 4				Last Date: September 27- 1				Peak Date: August 7- 42				

Common Raven (*Corvus* corax)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	2.71	4.14	3.29	0.86	1.86	0.71	0	1.94
# Days Observed	5	7	6	4	7	3	0	32
	First Date: April 25- 2		Last Date: June 2- 2			Peak Date: May 10- 15		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	2.00	2.29	4.57	1.71	1.00	2.57	3.57	4.00	1.86	4.14	3.60	2.25	2.80
# Days Observed	6	6	7	4	4	6	7	7	7	7	5	4	70
	First Date: July 12- 2				Last Date: September 30- 2				Peak Date: July 27- 11				

Horned Lark (*Eremophila alpestris*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	0	0	0.14	0	0	0.02
# Days Observed	0	0	0	0	1	0	0	1

Horned Lark (*Eremophila alpestris*)

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0	0	0	0	0	0	0	0	2.43	0	0	0	0.22
# Days Observed	0	0	0	0	0	0	0	0	1	0	0	0	1
	First Date: September 11- 17				Last Date: September 11- 17				Peak Date: September 11- 17				

Tree Swallow (*Tachycineta bicolor*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	1.71	2.43	10.86	8.00	4.71	2.71	1.00	4.49
# Days Observed	2	2	6	7	7	7	4	35
	First Date: April 24- 1		Last Date: June 9- 2			Peak Date: May 10- 45		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	2.57	9.14	16.71	47.29	3.14	0.14	1.43	0	0	0	0	0	7.13
# Days Observed	3	3	7	5	3	1	1	0	0	0	0	0	23
	First Date: July 15- 14				Last Date: August 25- 10				Peak Date: August 3- 150				

Bank Swallow (*Riparia riparia*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	0	0	0	25.14	0	3.59
# Days Observed	0	0	0	0	0	2	0	2
	First Date: May 30- 158		Last Date: May 31- 18			Peak Date: May 30- 158		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0	0.57	0	5.71	1.14	0	0	0	0	0	0	0	0.66
# Days Observed	0	3	0	4	2	0	0	0	0	0	0	0	9
	First Date: July 22- 1				Last Date: August 14- 3				Peak Date: August 4- 16				

Cliff Swallow (*Petrochelidon pyrrhonota*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	0	0	3.71	0.14	0	0.55
# Days Observed	0	0	0	0	2	1	0	3
	First Date: May 21- 4		Last Date: May 30- 1			Peak Date: May 24- 22		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0	0.43	1.43	4.29	0.29	0	0	0	0	0	0	0	0.57
# Days Observed	0	3	1	4	2	0	0	0	0	0	0	0	10
	First Date: July 22- 1				Last Date: August 15- 1				Peak Date: August 3- 23				

Barn Swallow (*Hirundo rustica*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	0	0	0.14	0	0	0.02
# Days Observed	0	0	0	0	1	0	0	1
	First Date: May 23- 1		Last Date: May 23- 1			Peak Date: May 23- 1		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0	0	0	0	0.71	0	0.57	0	0	0	0	0	0.11
# Days Observed	0	0	0	0	2	0	2	0	0	0	0	0	4
	First Date: August 12- 1				Last Date: August 25- 2				Peak Date: August 15- 4				

Black-capped Chickadee (*Poecile atricapillus*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	4.43	5.14	3.57	3.29	3.86	2.29	1.14	3.39
# Days Observed	7	7	7	7	7	7	4	46
# Processed	5-1-2	4-1-3	2-0-2	0	0-0-1	0	1-1-0	12-3-8
	First Date: April 23- 2		Last Date: June 9- 2			Peak Date: April 25- 8		

Black-capped Chickadee (*Poecile atricapillus*)

	JULY			AUGUST				SEPTEMBER				OCTOBER	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	7.43	4.57	4.29	4.57	4.00	5.43	6.71	16.71	53.57	301.71	193.00	90.25	53.03
# Days Observed	7	6	7	7	7	6	7	7	7	7	5	4	77
# Processed	4	0	2	2	0-0-1	0-0-1	0	8	10-0-1	36-0-3	14-0-2	29-0-2	105-0-10
	First Date: July 12- 6				Last Date: September 30- 10				Peak Date: September 22- 618				

Note: large irruption of black-capped chickadees occurred in September with the highest daily totals ever recorded.

Boreal Chickadee (*Poecile hudsonicus*)

	JULY			AUGUST				SEPTEMBER				OCTOBER	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0.29	0.14	0	0	0	0.14	0.29	0.71	4.86	29.29	7.00	1.75	3.70
# Days Observed	2	1	0	0	0	1	2	5	6	6	2	1	26
	First Date: July 16- 1				Last Date: September 29- 7				Peak Date: September 15- 71				

Note: boreal chickadee irruption in September with the highest daily totals ever recorded.

Red-breasted Nuthatch (*Sitta canadensis*)

	APRIL	MAY				JUNE		
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0.57	0.29	0.43	0.57	0.29	0.86	0.71	0.53
# Days Observed	4	2	2	4	2	6	5	25
	First Date: April 25- 1		Last Date: June 9- 1			Peak Date: May 13- 2		

	JULY			AUGUST				SEPTEMBER				OCTOBER	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0.86	0.57	1.00	2.43	1.00	0.14	0	0	0	0.29	0.20	0	0.57
# Days Observed	5	3	6	6	5	1	0	0	0	2	1	0	29
# Processed	0	1	0	0	0	0	0	0	0	0	0	0	1
	First Date: July 12- 1				Last Date: September 22- 1				Peak Date: August 6- 5				

White-breasted Nuthatch (*Sitta carolinensi*)

	JULY			AUGUST				SEPTEMBER				OCTOBER	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0	0	0	0.14	0.14	0	0	0	0.43	0.29	0	0	0.09
# Days Observed	0	0	0	1	1	0	0	0	3	2	0	0	7
	First Date: August 3- 1				Last Date: September 18- 1				Peak Date: All dates- 1				

Brown Creeper (*Certhia americana*)

	JULY			AUGUST				SEPTEMBER				OCTOBER	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0.86	0	0	0	0.14	0	0	0	0	0.29	0	0.25	0.13
# Days Observed	3	0	0	0	1	0	0	0	0	1	0	1	6
# Processed	2	0	0	0	1	0	0	0	0	0	0	1	4
	First Date: July 14- 3				Last Date: September 29- 1				Peak Date: July 14- 3				

House Wren (*Troglodytes aedon*)

	APRIL	MAY				JUNE		
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	0	0	0.29	0.14	0.14	0.08
# Days Observed	0	0	0	0	2	1	1	4
# Processed	0	0	0	0	1	0	1	2
	First Date: May 26- 1		Last Date: June 4- 1			Peak Date: All Dates- 1		

Winter Wren (*Troglodytes hiemalis*)

	APRIL	MAY				JUNE		
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0.29	1.43	2.14	1.29	1.29	0.86	1.04
# Days Observed	0	2	7	7	7	7	4	34
	First Date: May 5- 1		Last Date: June 8- 2			Peak Date: May 17- 3		

	JULY			AUGUST				SEPTEMBER				OCTOBER	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	1.43	0.86	0.57	0.14	0	0	0	0	0	0	0	0	0.27
# Days Observed	6	5	4	1	0	0	0	0	0	0	0	0	16
	First Date: July 12- 2				Last Date: August 4- 1				Peak Date: 5 dates- 2				

Golden-crowned Kinglet (*Regulus satrapa*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0.14	0	0	0	0	0	0.02
# Days Observed	0	1	0	0	0	0	0	1
# Processed	0	1	0	0	0	0	0	1
	First Date: May 1- 1		Last Date: May 1- 1			Peak Date: May 1- 1		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0	0	0	0	0	0	0.14	0.14	0.29	0.71	1.00	0.50	0.20
# Days Observed	0	0	0	0	0	0	1	1	2	4	3	2	13
	First Date: August 25- 1				Last Date: September 28- 1				Peak Date: September 25- 3				

Note: Only the second spring banding record at the LSLBO.

Ruby-crowned Kinglet (*Regulus calendula*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	1.57	1.57	0.86	1.57	1.14	0.86	0.86	1.20
# Days Observed	6	5	4	7	7	6	6	41
# Processed	2	2	0	0	1	0	1	6
	First Date: April 23- 1		Last Date: June 10- 1			Peak Date: April 26 & May 3- 4		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0.57	0.29	0.29	0.14	0	0.29	0	0.71	1.14	4.86	2.40	1.00	0.94
# Days Observed	3	2	1	1	0	2	0	4	4	6	3	2	28
# Processed	0	0	0	0	0	0	0	0	0	3	0	0	3
	First Date: July 13- 2				Last Date: September 30- 1				Peak Date: September 15- 11				

Townsend's Solitaire (*Myadestes townsendi*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0.14	0	0	0	0	0	0	0.02
# Days Observed	1	0	0	0	0	0	0	1
	First Date: April 24- 1		Last Date: April 24- 1			Peak Date: April 24- 1		

Note: Only the 7 observation on record.

Veery (*Catharus fuscescens*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	0	0	0.14	0	0	0.02
# Days Observed	0	0	0	0	1	0	0	1
# Processed	0	0	0	0	1	0	0	1
	First Date: May 22- 1		Last Date: May 22- 1			Peak Date: May 22- 1		

Gray-cheeked Thrush (*Catharus minimus*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	0	0.14	0.29	0.43	0	0.12
# Days Observed	0	0	0	1	2	2	0	5
# Processed	0	0	0	1	2	2	0	5
	First Date: May 16- 1		Last Date: May 30- 2			Peak Date: May 30- 2		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0	0	0	0	0	0	0	0.14	0.86	0.14	0	0	0.10
# Days Observed	0	0	0	0	0	0	0	1	3	1	0	0	5
# Processed	0	0	0	0	0	0	0	1	5-0-1	1	0	0	7-0-1
	First Date: September 5- 1				Last Date: September 17- 1				Peak Date: September 8- 3				

Swainson's Thrush (*Catharus ustulatus*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	0.57	3.14	5.71	8.00	2.00	2.78
# Days Observed	0	0	2	6	7	7	6	28
# Processed	0	0	1	11	26	21	0	59
	First Date: May 11- 1		Last Date: June 9- 1			Peak Date: June 1- 15		

Swainson's Thrush (*Catharus ustulatus*)

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	5.00	3.14	6.00	5.43	10.00	10.86	7.57	2.14	6.29	1.14	0.20	0	5.11
# Days Observed	7	6	6	7	7	7	7	5	7	4	1	0	64
# Processed	16	10	28	27	43	48	33	10	31	6	0	0	252
	First Date: July 12- 3				Last Date: September 25- 1				Peak Date: August 22- 20				

Note: Record number of fall bandings.

Hermit Thrush (*Catharus guttatus*)

	APRIL	MAY				JUNE		
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0.86	2.57	1.86	0.43	0	0	0.82
# Days Observed	0	4	5	5	3	0	0	17
# Processed	0	2	6	3	2	0	0	13
	First Date: May 2- 1		Last Date: May 26- 1			Peak Date: May 12- 6		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0.14	1.00	0	0.14	0	0.14	0	0	0.43	0.71	0.40	0.25	0.27
# Days Observed	1	3	0	1	0	1	0	0	2	4	1	1	14
# Processed	0	4-0-2	0	1	0	1	0	0	2	5	0-0-1	1	14-0-3
	First Date: July 18- 1				Last Date: September 29- 1				Peak Date: July 21- 4				

American Robin (*Turdus migratoriu)*

	APRIL	MAY				JUNE		
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	376.29	148.71	242.86	4.57	2.43	2.43	2.00	111.33
# Days Observed	7	7	7	6	7	7	6	47
# Processed	0	0	0	3	0	1-0-2	2	6-0-2
	First Date: April 23- 27		Last Date: June 9- 2			Peak Date: April 24- 1947		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	2.14	1.71	4.57	1.43	0.29	0.29	0.29	0.14	1.86	2.14	7.20	11.75	2.37
# Days Observed	6	4	6	4	2	2	2	1	4	4	3	3	41
# Processed	0	0	1	0	0	0	0	1	0	0-1-0	0	1	3-1-0
	First Date: July 12- 2				Last Date: September 29- 41				Peak Date: September 29- 41				

Varied Thrush (*Ixoreus naevius*)

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0	0	0	0	0	0	0	0	0.14	0	0	0	0.01
# Days Observed	0	0	0	0	0	0	0	0	1	0	0	0	1
	First Date: September 11- 1				Last Date: September 11- 1				Peak Date: September 11- 1				

European Starling (*Sturnus vulgaris*)

	APRIL	MAY				JUNE		
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	1.71	0	0.86	3.29	1.86	1.29	0	1.29
# Days Observed	1	0	2	2	4	2	0	11
	First Date: April 27- 12		Last Date: May 31- 1			Peak Date: May 15- 13		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0	0	0	0	0	0.57	0	0	0	0	0	0	0.05
# Days Observed	0	0	0	0	0	1	0	0	0	0	0	0	1
	First Date: August 22- 4				Last Date: August 22- 4				Peak Date: August 22- 4				

American Pipit (*Anthus rubescens*)

	APRIL	MAY				JUNE		
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	5.00	4.71	29.57	5.43	0	0	0	6.39
# Days Observed	3	4	6	2	0	0	0	15
	First Date: April 25- 30		Last Date: May 16- 1			Peak Date: May 10- 174		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0	0	0	0	0	0	2.71	6.29	24.86	42.14	3.60	4.25	7.18
# Days Observed	0	0	0	0	0	0	3	5	6	7	2	2	25
	First Date: August 24- 2				Last Date: September 29- 16				Peak Date: September 13- 172				

Bohemian Waxwing (*Bombycilla garrulus*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	1.14	0	0	0	0	0	0	0.16
# Days Observed	2	0	0	0	0	0	0	2
	First Date: April 24- 4		Last Date: April 26- 4			Peak Date: April 24 & 26- 4		

Note: Only the third sighting on record.

Cedar Waxwing (*Bombycilla cedrorum*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	0	0	0.14	34.14	13.00	6.76
# Days Observed	0	0	0	0	1	4	5	10
	First Date: May 24- 1		Last Date: June 9- 46			Peak Date: June 2- 114		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	6.86	5.00	8.57	8.14	6.14	13.14	13.86	9.57	11.57	6.71	0.80	0	7.99
# Days Observed	7	7	7	7	6	6	7	4	6	5	1	0	63
# Processed	0	0	8	0	1	0	1	5	0	0	0	0	15
	First Date: July 12- 4				Last Date: September 22- 4				Peak Date: August 21- 58				

Lapland Longspur (*Calcarius lapponicus*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0.57	3.29	0.14	0.14	0	0	0	0.59
# Days Observed	2	1	1	1	0	0	0	5
	First Date: April 24- 2		Last Date: May 19- 1			Peak Date: May 1- 23		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0	0	0	0	0	0.14	0.57	1.86	5.14	3.29	1.00	0.75	1.08
# Days Observed	0	0	0	0	0	1	2	3	6	5	3	2	22
	First Date: August 22- 1				Last Date: September 29- 1				Peak Date: September 10- 24				

Ovenbird (*Seiurus aurocapilla*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	0	2.57	9.29	9.57	6.57	4.00
# Days Observed	0	0	0	5	7	7	7	26
# Processed	0	0	0	3	27	18	1	49
	First Date: May 16- 2		Last Date: June 10- 5			Peak Date: May 26- 13		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	3.43	2.86	15.57	16.29	18.43	9.14	4.57	0.71	0.43	0.14	0	0	6.34
# Days Observed	7	4	7	7	7	7	6	3	2	1	0	0	51
# Processed	8	10	72	73	82	33	19	2	3	1	0	0	303
	First Date: July 12- 5				Last Date: September 16- 1				Peak Date: August 3- 37				

Note: New fall banding record.

Northern Waterthrush (*Parkesia noveboracensis*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	0	0.86	2.14	1.00	0.86	0.69
# Days Observed	0	0	0	4	7	7	6	24
# Processed	0	0	0	0	4	1	0	5
	First Date: May 16- 1		Last Date: June 10- 1			Peak Date: May 24- 4		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0.86	0.57	1.29	0.57	0.14	0.43	0.29	0.14	0	0.29	0	0	0.41
# Days Observed	5	2	4	2	1	2	1	1	0	2	0	0	20
# Processed	2	4	5	1	1	1	2	1	0	2	0	0	19
	First Date: July 12- 1				Last Date: September 17- 1				Peak Date: July 28- 6				

Black-and-white Warbler (*Mniotilta varia*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0.14	1.14	6.00	8.57	5.00	2.57	3.35
# Days Observed	0	1	3	7	7	7	7	32
# Processed	0	0	1	11-1-1	14-2-1	4-1-0	0-0-1	30-4-2
	First Date: May 2- 1		Last Date: June 10- 1			Peak Date: May 21- 17		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	2.86	17.57	7.86	15.00	19.43	2.00	0.71	0	0	0	0	0	5.80
# Days Observed	6	5	6	6	7	5	3	0	0	0	0	0	38
# Processed	4	21-0-3	12	7-1-0	14	4	0	0	0	0	0	0	62-1-4
	First Date: July 12- 2				Last Date: August 25- 2				Peak Date: August 12- 58				

Tennessee Warbler (*Oreothlypis peregrine*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	0	1.14	54.43	60.43	5.00	17.29
# Days Observed	0	0	0	5	7	7	7	26
# Processed	0	0	0	0	36	24	8	68
	First Date: May 15- 3		Last Date: June 10- 2			Peak Date: May 30- 208		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	6.86	39.86	81.57	100.71	556.71	54.14	22.00	0.43	0.29	0	0	0	76.43
# Days Observed	7	6	6	7	7	7	7	2	2	0	0	0	51
# Processed	0	28	37	6	62	3	9	1	1	0	0	0	147
	First Date: July 12- 5				Last Date: September 11- 1				Peak Date: August 14- 1485				

Orange-crowned Warbler (*Oreothlypis celata*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	2.00	5.71	2.57	0.43	0.14	0	1.55
# Days Observed	0	1	6	4	3	1	0	15
# Processed	0	1	2	1	2	0	0	6
	First Date: May 1- 14		Last Date: June 1- 1			Peak Date: May 12- 16		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0	0	0	0.14	1.43	0	0.71	14.14	14.86	17.29	1.60	0.75	4.44
# Days Observed	0	0	0	1	3	0	1	2	7	7	2	2	25
# Processed	0	0	0	1	1	0	0	2	3	13	1	3	24
	First Date: August 8- 1				Last Date: September 29- 2				Peak Date: September 5- 92				

Connecticut Warbler (*Oporornis agilis*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	0	0	0.14	0	0.14	0.04
# Days Observed	0	0	0	0	1	0	1	2
	First Date: May 27- 1		Last Date: June 8- 1			Peak Date: All Dates- 1		

Mourning Warbler (*Geothlypis philadelphia*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	0	0	0	1.00	1.57	0.37
# Days Observed	0	0	0	0	0	3	5	8
# Processed	0	0	0	0	0	2	3	5
	First Date: May 31- 1		Last Date: June 9- 2			Peak Date: June 2,3,4 & 7- 3		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0.29	0	0.29	1.57	3.43	1.71	1.00	0.43	0	0	0	0	0.77
# Days Observed	2	0	2	5	7	4	3	2	0	0	0	0	25
# Processed	1	0	2	9	8	7	1	0	0	0	0	0	28
	First Date: July 12- 1				Last Date: September 5- 2				Peak Date: August 14- 7				

Common Yellowthroat (*Geothlypis trichas*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	0	0	0	3.57	0.86	0.63
# Days Observed	0	0	0	0	0	6	6	12
# Processed	0	0	0	0	0	8	0	8
	First Date: May 29- 3		Last Date: June 10- 1			Peak Date: June 1- 6		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	1.29	0.43	0.57	0.29	0	0.14	0.14	1.00	0.29	0.43	0	0	0.41
# Days Observed	7	3	2	2	0	1	1	1	2	2	0	0	21
# Processed	1	0	1	1	0	0	0	1	1	1-0-1	0	0	6-0-1
	First Date: July 12- 1				Last Date: September 18- 1				Peak Date: September 5- 7				

American Redstart (*Setophaga ruticilla*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	0	0	3.57	28.71	5.29	5.37
# Days Observed	0	0	0	0	6	7	7	20
# Processed	0	0	0	0	7	29-1-0	4	40-1-0
	First Date: May 21- 2		Last Date: June 10- 2			Peak Date: May 31- 73		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	3.57	5.14	19.14	13.43	43.43	12.29	1.71	0.29	0.14	0	0	0	8.78
# Days Observed	7	6	7	7	7	7	5	2	1	0	0	0	49
# Processed	1-0-1	1-0-1	30	7	25	2	1	0	0	0	0	0	67-0-2
	First Date: July 12- 4				Last Date: September 9- 1				Peak Date: August 13- 114				

Cape May Warbler (*Setophaga tigrina*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	0	0	0	0.29	0	0.04
# Days Observed	0	0	0	0	0	1	0	1
	First Date: May 31- 2		Last Date: May 31- 2			Peak Date: May 31- 2		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0	0.14	0	0.14	0.29	0	0	0.14	0	0.14	0	0	0.08
# Days Observed	0	1	0	1	2	0	0	1	0	1	0	0	6
# Processed	0	1	0	0	1	0	0	1	0	1	0	0	4
	First Date: July 23- 1				Last Date: September 13- 1				Peak Date: All dates- 1				

Magnolia Warbler (*Setophaga magnolia*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	0	0	0.86	2.43	0.71	0.57
# Days Observed	0	0	0	0	2	7	5	14
# Processed	0	0	0	0	2	5	0	7
	First Date: May 26- 4		Last Date: June 9- 1			Peak Date: June 1- 5		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0.29	0	1.57	0.86	1.00	0.14	0	0	0.29	0.14	0	0	0.38
# Days Observed	2	0	3	3	4	1	0	0	1	1	0	0	15
# Processed	0	0	2	0	1	0	0	0	2	0	0	0	5
	First Date: July 12- 1				Last Date: September 13- 1				Peak Date: July 30- 7				

Bay-breasted Warbler (*Setophaga castanea*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	0	0	0.14	0	0	0.02
# Days Observed	0	0	0	0	1	0	0	1
	First Date: May 27- 1		Last Date: May 27- 1			Peak Date: May 27- 1		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0	0	0.57	0.14	0.29	0	0.14	0	0	0	0	0	0.10
# Days Observed	0	0	3	1	1	0	1	0	0	0	0	0	6
# Processed	0	0	3	0	1	0	1	0	0	0	0	0	5
	First Date: July 29- 1				Last Date: August 24- 1				Peak Date: August 1 & 15- 2				

Yellow Warbler (*Setophaga petechia*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	1.29	5.29	17.71	13.00	1.14	5.49
# Days Observed	0	0	2	6	7	7	6	28
# Processed	0	0	0	2	12	9	0	23
	First Date: May 12- 4		Last Date: June 10- 1			Peak Date: May 30- 42		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	3.57	5.14	19.14	27.00	30.71	5.71	7.29	1.00	0.86	0	0	0	8.90
# Days Observed	7	7	7	7	7	6	4	1	3	0	0	0	49
# Processed	0	2	16	2	4	2	0	0	1	0	0	0	27
	First Date: July 12- 2				Last Date: September 8- 1				Peak Date: August 15- 84				

Chestnut-sided Warbler (*Setophaga pensylvanica*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	0	0	0	0.14	0	0.02
# Days Observed	0	0	0	0	0	1	0	1
# Processed	0	0	0	0	0	1	0	1
	First Date: June 3- 1		Last Date: June 3- 1			Peak Date: June 3- 1		

Note: First record since 2005.

Blackpoll Warbler (*Setophaga striata*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	0.29	0.14	0.86	0.14	0	0.20
# Days Observed	0	0	1	1	3	1	0	6
# Processed	0	0	1	1	3	1	0	6
	First Date: May 13- 2		Last Date: June 1- 1			Peak Date: May 25- 3		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0	0.14	0	0	0.14	0	0	0.14	0.29	0	0	0	0.06
# Days Observed	0	1	0	0	1	0	0	1	1	0	0	0	4
# Processed	0	0	0	0	1	0	0	1	2	0	0	0	4
	First Date: July 22- 1				Last Date: September 10- 2				Peak Date: September 10- 2				

Palm Warbler (*Setophaga palmarum*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	0	0.14	0.86	0.14	0	0.16
# Days Observed	0	0	0	1	3	1	0	5
# Processed	0	0	0	1	0	0	0	1
	First Date: May 19- 1		Last Date: May 28- 1			Peak Date: May 21- 3		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0.14	0	0.57	1.00	0.14	0	0	0.71	1.00	4.00	0	0	0.67
# Days Observed	1	0	3	3	1	0	0	1	2	5	0	0	16
# Processed	1	0	0	0	0	0	0	2	0	6	0	0	9
	First Date: July 18- 1				Last Date: September 18- 10				Peak Date: September 18- 10				

Note: Palm warblers were identified as Western Palm Warblers *Setophaga palmarum palmarum*

Yellow-rumped Warbler (*Setophaga coronata*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	44.43	39.29	21.14	18.00	44.43	7.71	2.86	25.41
# Days Observed	7	7	7	7	7	7	7	49
# Processed	3	10	11	6	13	6	3	52
	First Date: April 23- 7		Last Date: June 10- 2			Peak Date: April 24- 264		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	36.57	50.29	200.29	463.29	817.86	152.57	83.00	86.43	456.43	664.29	157.00	46.50	279.09
# Days Observed	7	6	6	7	7	7	7	6	7	7	5	4	76
# Processed	10	6	24	6	16	8	4	6	102	171	15	2	370
	First Date: July 12- 7				Last Date: September 30- 1				Peak Date: August 14- 2412				

Note: all yellow-rumped warblers banded were Myrtle warblers *Setophaga coronata coronata*

Black-throated Green Warbler (*Setophaga virens*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	0	0.29	0.14	0.29	0	0.10
# Days Observed	0	0	0	2	1	2	0	5
	First Date: May 19- 1		Last Date: May 31- 1			Peak Date: All Dates- 1		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0.14	0	0	0	0.71	0.14	0.14	0	0	0	0	0	0.10
# Days Observed	1	0	0	0	3	1	1	0	0	0	0	0	6
# Processed	0	0	0	0	1	0	0	0	0	0	0	0	1
	First Date: July 13- 1				Last Date: August 25- 1				Peak Date: August 12- 3				

Canada Warbler (*Cardellina canadensis*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	0	0	1.29	9.14	4.71	2.16
# Days Observed	0	0	0	0	2	7	7	16
# Processed	0	0	0	0	0	13	4-1-0	17-1-0
	First Date: May 26- 2		Last Date: June 10- 1			Peak Date: May 31- 13		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	1.71	1.71	5.86	7.71	8.29	1.71	0	0	0	0	0	0	2.39
# Days Observed	7	6	7	7	7	6	0	0	0	0	0	0	40
# Processed	2	2	7-0-1	7	9	3	0	0	0	0	0	0	30-0-1
	First Date: July 12- 4				Last Date: August 22- 1				Peak Date: August 1- 14				

Wilson's Warbler (*Cardellina pusilla*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	0	0	0.43	0.57	0	0.14
# Days Observed	0	0	0	0	2	3	0	5
# Processed	0	0	0	0	3	3	0	6
	First Date: May 22- 1		Last Date: June 1- 1			Peak Date: May 27 & 29- 2		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0	0	0.29	0.57	2.29	0.86	0.86	0.43	0.14	0	0	0	0.48
# Days Observed	0	0	1	3	4	3	3	1	1	0	0	0	16
# Processed	0	0	0	0	5	1	1	1	0	0	0	0	8
	First Date: August 1- 2				Last Date: September 6- 1				Peak Date: August 12 & 15- 6				

American Tree Sparrow (*Spizella arborea*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	30.71	1.43	0.71	0	0	0	0	4.69
# Days Observed	6	2	3	0	0	0	0	11
# Processed	7	3	2	0	0	0	0	12
	First Date: April 23- 77		Last Date: May 13- 1			Peak Date: April 24- 108		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0	0	0	0	0	0	0	0	0	0.71	3.00	0.25	0.27
# Days Observed	0	0	0	0	0	0	0	0	0	3	4	1	8
# Processed	0	0	0	0	0	0	0	0	0	3	1	0	4
	First Date: September 15- 1				Last Date: September 30- 1				Peak Date: September 24- 9				

Chipping Sparrow (*Spizella arborea*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	0.57	5.00	76.71	9.00	2.00	13.33
# Days Observed	0	0	1	7	7	7	6	28
# Processed	0	0	0	0	7	11-0-2	3	21-0-2
	First Date: May 12- 4		Last Date: June 9- 1			Peak Date: May 22- 332		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0.57	1.00	0.14	2.14	3.00	2.14	0	0.71	0	0	0	0	0.86
# Days Observed	3	4	1	3	1	2	0	1	0	0	0	0	15
# Processed	2	1	0	1	1	1	0	2	0	0	0	0	8
	First Date: July 14- 1				Last Date: September 2- 5				Peak Date: August 14- 21				

Clay-colored Sparrow (*Spizella pallida*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	0.29	5.71	31.14	11.86	5.43	7.78
# Days Observed	0	0	1	7	7	7	7	29
# Processed	0	0	0	8	10	14	8	40
	First Date: May 13- 2		Last Date: June 10- 3			Peak Date: May 22- 106		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	3.14	1.71	1.86	1.43	4.14	0.86	1.00	0	0	0.14	0.20	0	1.28
# Days Observed	7	7	6	5	4	2	3	0	0	1	1	0	36
# Processed	3	0	2	0	3	1	1	0	0	0	1	0	11
	First Date: July 12- 4				Last Date: September 22- 1				Peak Date: August 14- 21				

Vesper Sparrow (*Pooecetes gramineus*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	0.43	0.43	0	0	0	0.12
# Days Observed	0	0	2	1	0	0	0	3
	First Date: May 8- 1		Last Date: May 14- 3			Peak Date: May 14- 3		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0	0	0	0	0	0	0	0	0.14	0.14	0	0	0.03
# Days Observed	0	0	0	0	0	0	0	0	1	1	0	0	2
	First Date: September 10- 1				Last Date: September 17- 1				Peak Date: All dates- 1				

Savannah Sparrow (*Passerculus sandwichensis*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	2.86	0.86	0.29	0	0	0.57
# Days Observed	0	0	5	1	2	0	0	8
# Processed	0	0	0	1	2	0	0	3
	First Date: May 8- 5		Last Date: May 26- 1			Peak Date: May 10- 8		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0	0	0.14	0	0	0	0.43	0	1.00	0.71	0	0	0.20
# Days Observed	0	0	1	0	0	0	1	0	5	3	0	0	10
# Processed	0	0	0	0	0	0	1	0	2	1	0	0	4
	First Date: August 1- 1				Last Date: September 16- 1				Peak Date: August 28- 3				

Le Conte's Sparrow (*Ammodramus leconteii*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	0.14	0	0	0	0	0.02
# Days Observed	0	0	1	0	0	0	0	1
	First Date: May 13- 1		Last Date: May 13- 1			Peak Date: May 13- 1		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0	0	0	0	0	0	0	0.29	0	0	0	0	0.03
# Days Observed	0	0	0	0	0	0	0	1	0	0	0	0	1
# Processed	0	0	0	0	0	0	0	1	0	0	0	0	1
	First Date: September 5- 2				Last Date: September 5- 2				Peak Date: September 5- 2				

Fox Sparrow (*Passerella iliaca*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	0.14	0	0	0	0	0.02
# Days Observed	0	0	1	0	0	0	0	1
# Processed	0	0	1	0	0	0	0	1
	First Date: May 7- 1		Last Date: May 7- 1			Peak Date: May 7- 1		

Song Sparrow (*Melospiza melodia*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0.57	2.86	3.86	3.57	3.57	3.00	2.29	2.82
# Days Observed	3	7	7	6	7	7	7	44
# Processed	0	0	2	4	6	0	1	13
	First Date: April 26- 1		Last Date: June 10- 1			Peak Date: May 14- 9		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	3.00	2.29	2.00	2.57	1.00	1.00	0.14	0.29	0.29	0	0	0	1.11
# Days Observed	7	6	6	7	6	4	1	2	2	0	0	0	41
# Processed	0	0	3	1	1	2	0	0	0	0	0	0	7
	First Date: July 12- 4				Last Date: September 12- 1				Peak Date: August 3- 5				

Lincoln's Sparrow (*Melospiza lincolnii*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	0.43	3.71	3.43	4.57	2.43	2.08
# Days Observed	0	0	2	7	7	7	7	30
# Processed	0	0	1	5	3	3	0	12
	First Date: May 9- 1		Last Date: June 10- 2			Peak Date: May 19- 9		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	3.00	1.00	1.57	3.43	1.14	1.14	1.43	1.29	0.71	0.43	0.20	0	1.35
# Days Observed	7	4	4	7	4	4	6	3	2	3	1	0	45
# Processed	5	3	5	3	2	2	2	2	0	1	0	0	25
	First Date: July 12- 2				Last Date: September 26- 1				Peak Date: July 17- 6				

Swamp Sparrow (*Melospiza georgiana*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0.14	0	0	0.14	0	0	0	0.04
# Days Observed	1	0	0	1	0	0	0	2
# Processed	0	0	0	1	0	0	0	1
	First Date: April 28- 1		Last Date: May 14- 1			Peak Date: All Dates- 1		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0	0.14	0.29	0.14	0.14	0.29	0.14	0	0.14	0	0	0	0.11
# Days Observed	0	1	1	1	1	1	1	0	1	0	0	0	7
# Processed	0	1	1	1	0	2	1	0	1	0	0	0	7
	First Date: July 20- 1				Last Date: September 8- 1				Peak Date: August 1 & 8- 2				

White-throated Sparrow (*Zonotrichia albicollis*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	3.29	19.14	13.71	8.71	5.43	7.18
# Days Observed	0	0	4	7	7	7	7	32
# Processed	0	0	2	34	23	5	4	68
	First Date: May 8- 4		Last Date: June 10- 2			Peak Date: May 17- 26		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	8.43	5.29	4.57	2.14	2.71	3.00	1.71	2.29	1.14	0.57	0.20	0	2.84
# Days Observed	7	7	7	5	7	7	4	5	5	4	1	0	59
# Processed	8	5	4	4	2	3	1	2	1	0	1	0	31
	First Date: July 12- 11				Last Date: September 22- 1				Peak Date: July 17- 12				

White-crowned Sparrow (*Zonotrichia leucophrys*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0.14	0.57	0.14	0.14	0	0	0.14
# Days Observed	0	1	2	1	1	0	0	5
# Processed	0	0	1	1	1	0	0	3
	First Date: May 6- 1		Last Date: May 22- 1			Peak Date: May 8- 3		

White-crowned Sparrow (*Zonotrichia leucophrys*)

	JULY			AUGUST				SEPTEMBER				OCTOBER	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0	0	0	0	0	0	0.43	0.86	1.00	1.43	0.80	1.00	0.43
# Days Observed	0	0	0	0	0	0	2	3	3	4	1	1	14
# Processed	0	0	0	0	0	0	2	1	3	3	1	0	10
	First Date: August 27- 2				Last Date: September 27- 4				Peak Date: September 10 & 18- 5				

Note: all banded white-crowned sparrows were identified as Gambel's subspecies *Zonotrichia leucophrys gambelii*

Slate-coloured Junco (*Junco hyemalis*)

	APRIL	MAY				JUNE		
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	73.00	2.57	2.71	0.14	0	0	0	11.20
# Days Observed	6	6	3	1	0	0	0	16
# Processed	1	1	1	0	0	0	0	3
	First Date: April 23- 122		Last Date: May 17- 1			Peak Date: April 24- 351		

	JULY			AUGUST				SEPTEMBER				OCTOBER	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0	0	0	0	0	0	0.43	1.00	3.71	24.14	10.00	5.75	3.52
# Days Observed	0	0	0	0	0	0	2	2	5	7	5	4	25
# Processed	0	0	0	0	0	0	2	1	3	23	7	4	40
	First Date: August 25- 1				Last Date: September 30- 3				Peak Date: September 18- 71				

Western Tanager (*Piranga ludoviciana*)

	APRIL	MAY				JUNE		
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	0.43	1.71	1.57	0.57	0.71	0.71
# Days Observed	0	0	2	6	7	4	5	24
	First Date: May 11- 1		Last Date: June 9- 1			Peak Date: May 17- 4		

	JULY			AUGUST				SEPTEMBER				OCTOBER	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	1.71	1.00	5.57	4.43	8.86	3.14	1.29	0	0.14	0	0	0	2.32
# Days Observed	7	4	6	6	5	3	5	0	1	0	0	0	37
# Processed	2	0	4	0	0	1	0	0	1	0	0	0	8
	First Date: July 12- 1				Last Date: September 6- 1				Peak Date: August 12- 26				

Rose-breasted Grosbeak (*Pheucticus ludovicianus*)

	APRIL	MAY				JUNE		
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	0	1.43	5.14	2.29	1.14	1.43
# Days Observed	0	0	0	4	7	6	7	24
	First Date: May 17- 2		Last Date: June 10- 1			Peak Date: May 23- 10		

	JULY			AUGUST				SEPTEMBER				OCTOBER	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0.57	0.43	5.43	5.29	3.57	0	0	0	0	0	0	0	1.35
# Days Observed	4	2	6	6	5	0	0	0	0	0	0	0	23
# Processed	0	0	4	1	0	0	0	0	0	0	0	0	5
	First Date: July 12- 1				Last Date: August 15- 4				Peak Date: 4 dates- 9				

Red-winged Blackbird (*Agelaius phoeniceus*)

	APRIL	MAY				JUNE		
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	5.71	20.43	6.71	16.57	4.29	3.86	0.71	8.33
# Days Observed	2	3	6	7	7	6	4	35
	First Date: April 28- 33		Last Date: June 9- 1			Peak Date: May 2- 109		

	JULY			AUGUST				SEPTEMBER				OCTOBER	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	10.14	1.14	49.29	4.86	6.43	0.57	0.29	0	0	0	0	0	6.44
# Days Observed	5	2	6	3	4	1	1	0	0	0	0	0	22
	First Date: July 13- 11				Last Date: August 25- 2				Peak Date: July 27- 198				

Note: a large number of blackbirds are recorded as unidentified because their migration patterns make positive id difficult.

Yellow-headed Blackbird (*Xanthocephalus xanthocephalus)*

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	0.57	0	0	0.43	0	0.14
# Days Observed	0	0	3	0	0	1	0	4
	First Date: May 9- 1		Last Date: May 31- 3			Peak Date: May 31- 3		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0	0	0.57	0	0.14	0	0	0	0	0	0	0	0.06
# Days Observed	0	0	1	0	1	0	0	0	0	0	0	0	2
	First Date: August 1- 4				Last Date: August 14- 1				Peak Date: August 1- 4				

Common Grackle (*Quiscalus quiscula*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	3.00	3.71	6.14	0.57	0.71	0.71	0	2.12
# Days Observed	3	6	4	2	5	3	0	23
	First Date: April 26- 9		Last Date: June 2- 1			Peak Date: May 10- 28		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0	0.57	4.57	3.57	10.86	1.29	0.14	0.29	0	0	0	0	1.89
# Days Observed	0	2	3	5	4	2	1	1	0	0	0	0	18
# Processed	0	0	1	1	0	0	0	0	0	0	0	0	2
	First Date: July 23- 1				Last Date: September 5- 2				Peak Date: August 14- 54				

Brown-headed Cowbird (*Molothrus ater*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	4.29	4.00	5.14	7.86	2.43	0.57	3.47
# Days Observed	0	1	5	7	7	5	4	29
	First Date: May 1- 30		Last Date: June 8- 1			Peak Date: May 1- 30		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0	0.29	2.00	1.86	0.14	0	0	0	0	0	0	0	0.38
# Days Observed	0	2	2	3	1	0	0	0	0	0	0	0	8
	First Date: July 22- 1				Last Date: August 12- 1				Peak Date: July 26- 13				

Baltimore Oriole (*Icterus galbula*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	0	0	0.86	1.57	0	0.35
# Days Observed	0	0	0	0	4	3	0	7
	First Date: May 22- 2		Last Date: June 2- 1			Peak Date: May 31- 7		

Purple Finch (*Haemorhous purpureus*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0.86	1.86	2.43	1.14	0.14	0.14	0	0.94
# Days Observed	3	5	6	4	1	1	0	20
	First Date: April 26- 3		Last Date: May 31- 1			Peak Date: May 4, 13, & 14- 5		

	JULY			AUGUST				SEPTEMBER					OCTOBER
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0.29	0.14	3.00	8.14	12.00	3.00	0.86	0.43	0.29	0	0	0	2.49
# Days Observed	2	1	5	5	7	5	4	1	1	0	0	0	31
# Processed	0	0	1	0	1	1	0	0	0	0	0	0	3
	First Date: July 15- 1				Last Date: September 8- 2				Peak Date: August 14- 35				

Common Redpoll (*Acanthis flammea*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	4.29	0	0	0	0	0	0.61
# Days Observed	0	1	0	0	0	0	0	1
	First Date: May 1- 30		Last Date: May 1- 30			Peak Date: May 1- 30		

Pine Siskin (*Spinus pinus*)

	JULY			AUGUST				SEPTEMBER				OCTOBER	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0.57	2.71	6.14	9.86	13.57	6.43	3.71	0.29	8.43	27.43	1.60	1.00	7.16
# Days Observed	4	4	6	6	5	4	5	1	6	7	3	1	52
	First Date: July 14- 1				Last Date: September 29- 4				Peak Date: September 18- 140				

American Goldfinch (*Spinus tristis*)

	APRIL	MAY				JUNE		
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0	0	0.14	0	0.43	1.86	0.29	0.39
# Days Observed	0	0	1	0	3	6	1	11
	First Date: May 13- 1			Last Date: June 7- 2			Peak Date: June 3- 4	

	JULY			AUGUST				SEPTEMBER				OCTOBER	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	0	0	0	0	0.14	0	0.14	0	0	0	0	0	0.03
# Days Observed	0	0	0	0	1	0	1	0	0	0	0	0	2
	First Date: August 11- 1				Last Date: August 28- 1				Peak Date: All dates- 1				

Evening Grosbeak (*Coccothraustes vespertinus*)

	APRIL	MAY				JUNE		
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	2.57	9.57	6.29	3.71	1.29	1.86	1.00	3.76
# Days Observed	5	6	7	3	3	5	4	33
	First Date: April 24- 2			Last Date: June 8- 2			Peak Date: April 30- 37	

	JULY			AUGUST				SEPTEMBER				OCTOBER	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	**Total**
Mean # Birds/Day	1.14	2.43	5.00	2.00	1.29	0.14	2.57	0.14	0.71	0.86	0.20	1.50	1.53
# Days Observed	3	4	3	2	2	1	1	1	2	4	1	1	25
	First Date: July 13- 1				Last Date: September 29- 6				Peak Date: July 28- 27				

Appendix II. Annual Banding Totals

Species	2014 Spring Migration	2014 MAPS	2014 Fall Migration	2014 Projects	2014 Total		Grand Total 1993- 2014
"Audubon's" Warbler							2
Alder Flycatcher	17	1	61		79		1868
American Goldfinch							1
American Kestrel							2
American Magpie							2
American Pipit							18
American Redstart	40	40	67		147		6964
American Robin	6	7	3		16		384
American Tree Sparrow	12		4		16		572
Baltimore Oriole							5
Bay-breasted Warbler		1	5		6		117
Barred Owl							4
Belted Kingfisher							1
Black-and-White Warbler	30	4	62		96		1847
Blackburnian Warbler							2
Black-capped Chickadee	12	2	105		119		983
Blackpoll Warbler	6		4		10		332
Black-throated Green Warbler			1		1		121
Blue Jay			3		3		60
Blue-headed Vireo			1		1		78
Boreal Chickadee							26
Boreal Owl				2	2		2
Brown Creeper			4		4		58
Brown-headed Cowbird							6
Canada Warbler	17	17	30		64		2792
Cape May Warbler		1	4		5		146
Cedar Waxwing			15		15		160
Chestnut-sided Warbler	1				1		22
Chipping Sparrow	21	6	8		35		1960
Clay-colored Sparrow	40		11		51		913
Common Grackle			2		2		6
Common Yellowthroat	8	3	6		17		644
Connecticut Warbler							24
Cooper's Hawk							3
Downy Woodpecker		1	4		5		68
Eastern Kingbird							1
Eastern Phoebe	6				6		139
Evening Grosbeak							1
Fox Sparrow	1				1		78
Golden-crowned Kinglet	1				1		78

Species	2014 Spring Migration	2014 MAPS	2014 Fall Migration	2014 Projects	2014 Total		Grand Total 1993- 2014
Gray Catbird							6
Gray Jay							3
Gray-cheeked Thrush	5		7		12		177
Hairy Woodpecker	1		8		9		43
Harris's Sparrow							6
Hermit Thrush	13	4	14		31		546
Hoary Redpoll							1
House Wren	2				2		30
Lapland Longspur							5
Lazuli Bunting							1
Le Conte's Sparrow			1		1		7
Least Flycatcher	29	1	24		54		2103
Lincoln's Sparrow	12	2	25		39		833
Long-eared Owl							1
MacGillivray's Warbler							2
Magnolia Warbler	7	3	5		15		926
Marsh Wren							3
Mourning Warbler	5	6	28		39		1063
Nashville Warbler							4
Northern Flicker			3		3		32
Northern Goshawk							1
Northern Mockingbird							1
Northern Pygmy-Owl							2
Northern Saw-whet Owl				86	86		1098
Northern Shrike							2
Northern Waterthrush	5	2	19		26		719
Orange-crowned Warbler	6		24		30		1190
“Oregon” Junco							14
Olive-sided Flycatcher							2
Ovenbird	49	42	303		394		3767
Western Palm Warbler	1		9		10		248
Philadelphia Vireo							175
Pileated Woodpecker							4
Pine Siskin							164
Purple Finch			3		3		83
Red-breasted Nuthatch			1		1		123
Red-eyed Vireo	2	5	15		22		710
Red-winged Blackbird							6
Rose-breasted Grosbeak			5		5		316
Ruby-crowned Kinglet	6	1	3		10		377
Savannah Sparrow	3		4		7		185
Sharp-shinned Hawk	2	1	50		53		534
“Slate-colored” Junco	3		40		43		1655
Song Sparrow	13		7		20		301
Swainson's Thrush	59	18	252		329		5313

Species	2014 Spring Migration	2014 MAPS	2014 Fall Migration	2014 Projects	2014 Total		Grand Total 1993- 2014
Swamp Sparrow	1	1	7		9		187
Tennessee Warbler	68	60	147		275		5187
Three-toed Woodpecker							1
Townsend's Solitaire							1
Varied Thrush							6
Veery	1				1		8
Vesper Sparrow							3
Warbling Vireo			3		3		64
Western Tanager		3	8		11		176
Western Wood-Pewee							22
White-breasted Nuthatch		1			1		11
"Gambel's" White-crowned Sparrow	3		10		13		451
White-throated Sparrow	68	52	31		151		2709
White-winged Crossbill							1
Wilson's Warbler	6		8		14		509
Winter Wren		3			3		51
Yellow Warbler	23	7	27		57		3425
Yellow-bellied Flycatcher		1			1		74
Yellow-bellied Sapsucker	7	3	12		22		182
Yellow-rumped Warbler	52	27	370		449		10,192
Total number of birds banded	**670**	**326**	**1873**	**88**	**2957**		**66533**
Total number of species banded	**43**	**32**	**53**	**2**	**64**		**105**