Lesser Slave Lake

Bird Observatory

Slave Lake ▪ Alberta ▪ Canada

2016 Annual Report

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2016 Executive Summary

The Lesser Slave Lake Bird Observatory (LSLBO) conducted its 23rd year of bird population monitoring in the Lesser Slave Lake Provincial Park, Alberta, in 2016. The LSLBO is dedicated to bird conservation through research and education by implementing its core long-term monitoring programs and collaborating with the Canadian Migration Monitoring Network/ Réseau Canadien de Surveillance des Migrations (CMMN-RCSM), Alberta Parks, Institute for Bird Populations, and other institutions and organizations. This report summarizes the 2016 results of the LSLBO's four core monitoring programs: spring migration monitoring, fall migration monitoring, Monitoring Avian Productivity and Survivorship (MAPS), and northern saw-whet owl fall migration monitoring.

Spring migration monitoring coverage lasted for 57 days from April 15 to June 10. Visual migration counts and census were conducted daily and mist-netting occurred on 51 of the days. Over 44,000 birds representing 150 species were recorded through the season. Banding was slightly below the seasonal average with a total of 842 birds representing 45 species banded.

Fall migration monitoring extended from July 12 to September 29 for 80 days of coverage. Visual migration counts and census were conducted daily and mist-nets were set on 74 of the days. Over 52,000 birds from 121 species were observed during the season. Banding was above the seasonal average with 2798 birds from 56 species banded.

Four MAPS stations were monitored from June 11 to August 3. A total of 252 birds from 28 species were banded. The breeding status was determined for 69 species encountered during MAPS banding.

Northern saw-whet owl fall migration monitoring was conducted over 44 nights from September 1 to October 29. A total of 100 northern saw-whet owls were banded, slightly above the average. This year we ran a pilot project to test the extent that boreal owls migrate through the area. A second net array targeting boreal owls was set for 28 nights from September 21 to October 29. Seven boreal owls and an additional seven northern saw-whet owls were banded.

A total of 562 recaptures were recorded through the four monitoring projects that represented 323 individuals from 31 species. All recaptures were originally banded at the LSLBO. The oldest know aged bird captured was a myrtle warbler banded as an ASY in the spring of 2012, making it at least six years old.

The LSLBO participated in two collaborative projects this season: Canada warbler geolocator work being conducted by the University of Manitoba and a new project with Dr. Natalie Boelman from Columbia University studying American Robin migration patterns for NASA's Arctic-Boreal Vulnerability Experiment (ABoVE). Two academic journal articles were also published with LSLBO contributions.

Migration Monitoring

Migration monitoring is a method of monitoring bird populations from a fixed point. Observers combine data from standardized observations and constant effort mist-netting to estimate the number of migrants passing through the study area each day during the migration period. The daily estimated totals are used to create annual population indices, which are compared to previous years to derive long-term population trends. The Lesser Slave Lake Bird Observatory (LSLBO) has been conducting standardized spring and fall migration monitoring since 1994; 2016 marks the 23rd year of monitoring activities. The migration monitoring remains the LSLBO's core program. 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 birds of all 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 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 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 Monitoring

Spring migration is typically monitored for approximately seven weeks beginning late April until early June. This time period covers the migratory window of most species expected to be encountered at the LSLBO. Monitoring usually begins in late April once daytime temperatures have risen above freezing to allow for banding. Early spring migrant species typically have begun passing through the area before monitoring begins, but the extent of the migration varies depending on the overall spring conditions. Species diversity quickly increases in early May and new species are detected constantly throughout the month. Periods of heavy migration can occur at any time. The pace of migration slows down in late May with only the remaining late migrant species moving through. Many of the observations through late May and June consists of local breeding individuals. Spring migration monitoring ends on June 10.

Spring migration monitoring began on April 15 and was conducted daily until June 10 for 57 days of coverage. Mild spring conditions this year prompted an early start to monitoring in mid-April to accommodate for the species expected to be moving through along with the warm weather. The census was conducted daily and the target of eight daily visual migration counts was reached on all but 12 days. Mist-netting coverage was lower than normal and only 17 days received full net-coverage. Cold morning temperatures often delayed mist-netting early in the mornings and mist-nets had to be adjusted to changing weather conditions throughout the day. Extremely poor weather prevented mist-netting entirely on six days. Overall migration coverage was similar to previous years, though mist-netting effort was the lowest since the aerial nets were established in 2011 (Table 2).

Table 2. Summary of effort during spring migration monitoring at LSLBO, 2008-2016.

Coverage	2008	2009	2010	2011	2012	2013	2014	2015	2016
First Day	26-Apr	25-Apr	22-Apr	22-Apr	23-Apr	25-Apr	23-Apr	20-Apr	15-Apr
Last Day	10-Jun	10-Jun	10-Jun	15- May	10- Jun	10-Jun	10-Jun	10-Jun	10-Jun
Number of Days	45	46	50	24	49	47	49	52	57
Person Days	105	89	114	55	96	95	88	107	111
Average Daily Coverage Code	3.78	3.79	3.76	3.91	3.76	3.81	3.84	3.88	3.75
Banding									
Number of Days	43	42	44	23	45	41	43	50	51
Av. Daily Net Hrs	75.8	70.4	64.4	81.8*	80.68*	79.7*	73.4*	82.9*	72.5*
Census									
Number of Days	45	46	50	24	48	47	49	52	57
Vis-Mig									
Number of Days	45	46	50	24	49	47	49	52	57
Av Daily Vis-Migs	7.8	7.7	7.6	7.8	7.5	7.6	7.6	7.8	7.5

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

Spring Migration Daily Totals

A total of 44,855 birds representing 150 species were recorded during spring migration monitoring. Banding accounted for the lowest number of encounters and the lowest species diversity with 938 birds representing 45 species. Connecticut warbler was the only species to be detected only through mist-netting. Visual migration counts accounted for 5,106 birds from 42 species. No species were exclusively detected during these counts. Census accounted for 8,614 birds from 106 species. The first black-backed woodpecker since 1998 was detected during the census and ring-necked ducks were only observed on census. Incidental observations accounted for 33,402 birds from 145 species. Thirty-five species were only detected on observations, which included several uncommon species: American golden-plover (first sighting since 2001), semipalmated plover, short-billed dowitcher, common nighthawk, peregrine falcon, purple martin (first sighting since 1999), and Townsend's solitaire.

Songbird migration was light through most of late April; overall species diversity was quite high, but migrants passed through in small numbers. Activity picked up at the end of April when big flocks of American robins, myrtle warblers, and blackbirds began to move through. The first big migration push occurred on May 4 as over 1000 warblers, consisting mostly of myrtle warblers, and large numbers of blackbirds were observed. The busiest day of spring migration was May 17 when over 4000 songbirds, mostly myrtle warblers and blackbirds, were counted. This passage continued the next day, but also included large numbers of clay-colored sparrows and chipping sparrows. May 22 was the last busy day of the spring with a very large diversity of species moving through. The pace of migration slowed during the final two weeks of the season (Figure 1).

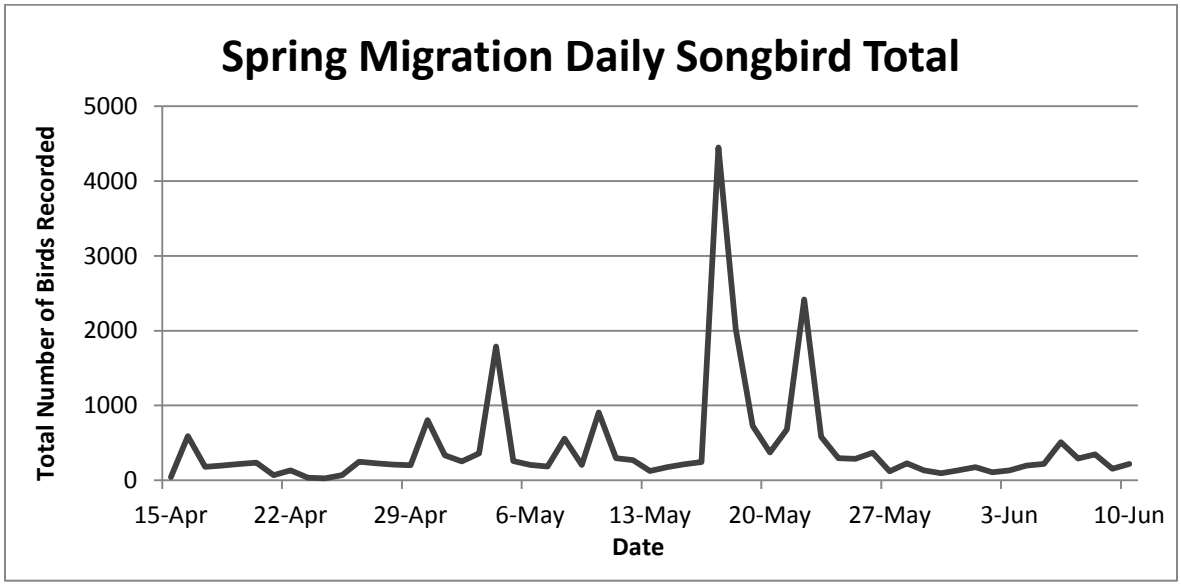

Figure 1. Total number of songbirds detected each day during spring migration, 2016.

Spring Migration Banding

Mist-nets were set for 4134.4 net hours; achieving 74% of the total possible net coverage. The twelve standard mist-nets were set for 3653 net hours; achieving 76% of the possible standard net hours. The two aerial nets were set for 481.4 net hours; achieving 60% of the possible aerial net hours. A total of 842 birds were banded and an additional 96 recaptures were recorded. The spring banding total was slightly below the average of 918 birds. Banding was very slow through the first half of the spring; only one day surpassed 20 birds banded (Figure 2). Activity picked up substantially during the second half of May. The busiest banding day was May 22 with 110 birds banded, followed by May 17 with 99 birds and May 18 with 76 birds.

A total of 45 species were banded during the spring, which is just above the season average of 44. The top five banded species were: Myrtle warbler (138), white-throated sparrow (111), Swainson's thrush (78), ovenbird (58), and clay-colored sparrow (41). These five species combined represent 51% of all birds banded in the spring. Spring banding highlights included the first spring brown-headed cowbird banding-record since 1998. Ovenbirds broke the spring banding total record, surpassing the previous high of 49 set in 2014. Spring banding totals for all species are listed in Appendix II.

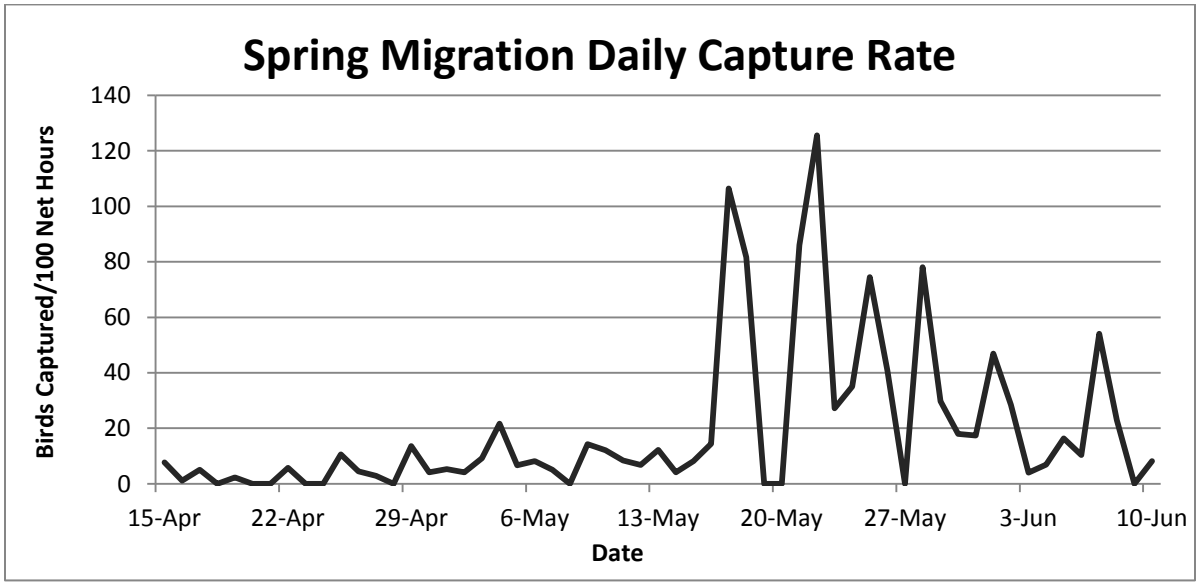

Figure 2. Daily capture rate for spring migration, 2016.

Spring Migration Net-Lane Productivity

The LSLBO operates twelve standard net-lanes during migration monitoring which are numerically designated 1 through 12. The two aerial nets, designated 11x and 12x, were established in 2011 and are located adjacent to the corresponding standard net-lane number. The three nets located along the shoreline (6, 11, and 11x) are exposed to wind and tend to have fewer net hours than the more sheltered forest net-lanes.

The total capture rate for the spring was 22.7 birds per 100 net hours (Table 3). Net-lane 6 had the highest capture rate with 91.6 birds per 100 net hours. Net 6 also recorded the highest species diversity with 33. This net is typically the most productive at the LSLBO. Net 10 had the lowest capture rate at 3.8 birds per 100 net hours and recorded only 5 species. The two aerial nets preform very well and accounted for 25% of the birds banded this spring. They accounted for half of both the black-and-white warbler and myrtle warbler captures and captured the only blackpoll warbler of the spring.

Table 3. Capture rates for each net-lane during spring migration, 2016.

Net-lane	Net hours	New Captures	Returns and Repeats	Total Captured	Capture Rate (birds/100 net hours)	Number of Species
1	314.0	34	9	43	13.7	19
2	314.0	30	13	43	13.7	12
3	317.0	19	6	25	7.9	12
4	308.0	38	6	44	14.3	12
5	311.0	71	7	78	25.1	23
6	256.7	221	14	235	91.6	33
7	318.0	24	6	30	9.4	9
8	318.0	25	3	28	8.8	12
9	318.5	17	2	19	6.0	12
10	318.5	11	1	12	3.8	5
11	244.7	91	7	98	40.1	25
12	313.5	50	9	59	18.8	21
Standard Net Total	3653.0	631	83	714	19.5	43
11x	212.2	156	6	162	76.4	27
12x	269.2	55	7	62	23.0	21
Aerial Net Total	481.4	211	13	224	46.5	33
Grand Total	**4134.4**	**842**	**96**	**938**	**22.7**	**45**

Spring Migration Summary

April 15 to April 29

Spring migration monitoring began on April 15. It was a cold morning and there was little in the way of songbird activity except for a couple American robins, American tree sparrows, and small flocks of common redpolls in the area. The snow had already long melted away and although Lesser Slave Lake was still frozen over, the ice had melted along the edges of the shore. Canada goose, mallard, common goldeneye, and common merganser were taking advantage of the open water. Several large flocks of tundra swans were seen flying overhead.

The weather through the rest of this period was quite warm. Morning temperatures dropped below freezing only twice and the daytime high reached as high as 23 degrees Celsius. However, it was quite windy and there were several days with rain. Overall songbird migration was light through the period, but there was consistent migration of American robin, blackbirds, American pipit, dark-eyed junco, and myrtle warbler. There was also first sightings of northern harrier, sharp-shinned hawk, yellow-bellied sapsucker, northern flicker, eastern phoebe, tree swallow, winter wren, ruby-crowned kinglet, Townsend's solitaire, hermit thrush, Lapland longspur, orange-crowned warbler, savannah sparrow, and song sparrow. All but one day received reduced net coverage because of the weather conditions and 37 birds were banded. Waterfowl began to move through the area in very large numbers. Migrating tundra swans were joined by snow geese, large numbers of greater white-fronted geese, and a large diversity of duck species.

April 30 to May 6

Weather conditions through the week were warm, dry, and mostly calm. Migration was light through most of the week and consisted mostly of American robin, American pipit, myrtle warbler, and blackbirds. Overall migrant diversity began to slowly increase with more frequent sightings of species such as northern harrier and northern flicker. The pace of migration picked-up on May 4 with the first heavy passage; over 900 myrtle warblers were counted overhead. The week had the first sightings of blue-winged teal, surf scoter, peregrine falcon, Say's phoebe, black-and-white warbler, Lincoln's sparrow, vesper sparrow, white-throated sparrow, white-crowned sparrow, brown-headed cowbird, and yellow-headed blackbird. Mist-netting was excellent and most days received full net coverage and a total of 54 birds were banded.

May 7 to May 13

A weather system brought heavy wind and rain for several days early in the week, but otherwise the weather was generally nice with cool mornings that became warm and breezy throughout the day. Overall migration was light, except for a few instances of moderate passage of tree swallow, American pipit, myrtle warbler, and a variety of sparrows. The week also brought a host of new species sightings that included: common nighthawk, least flycatcher, warbling vireo, gray-cheeked thrush, Swainson's thush, ovenbird, northern waterthrush, Tennessee warbler, yellow

warbler, palm warbler, black-throated green warbler, chipping sparrow, clay-colored sparrow, and western tanager. The poor weather early in the week reduced the netting effort and a total of 36 birds were banded.

May 14 to May 20

The week began sunny and warm, but slowly became overcast and the week closed out with heavy rain. Bird migration was steady and at times heavy for most of the week, even during the rain. Species diversity of migrants was very high, but myrtle warblers were the most prevalent migrant, reaching over 2000 on May 17. There were also good numbers of Tennessee warblers, chipping sparrows, and clay-coloured sparrows observed. New species observed during the week included: western wood-pewee, blue-headed vireo, Philadelphia vireo, bank swallow, cliff swallow, purple martin, common yellowthroat, American redstart, magnolia warbler, blackpoll warbler, rose-breasted grosbeak, Baltimore oriole, and American goldfinch. A total of 193 birds were banded, largely due to the second busiest banding day of 99 birds on the 17th. Mist-netting was good for most of the week, but the last two days were completely lost due to the heavy rain.

May 21 to May 27

The weather was ideal for most of the week, except for some windy periods and rain late in the week. The heavy migration continued from the previous week for the first couple days and then slowed down considerable. Species diversity remained high and myrtle warbler, Tennessee warbler, and American redstart were the most common species observed. Many of the expected late migrant species were spotted, including: Alder flycatcher, eastern kingbird, red-eyed vireo, house wren, cedar waxwing, mourning warbler, bay-breasted warbler, Canada warbler, Wilson's warbler, and swamp sparrow. Weather conditions allowed for excellent mist-netting coverage on all but the last day of the week and 301 birds were banded. May 22 was the busiest banding day of the spring with 110 birds banded.

May 28 to June 3

The weather this week was poor for migration monitoring because of periods of heavy wind and rain. Overhead migration was light and most of the observations were local birds. Yellow-bellied flycatcher and Cape May warbler were the only new species observed. Despite the lack of migration activity a total of 137 birds were banded. No days of mist netting were lost, but conditions only allowed for partial net coverage on most of the days.

June 4 to June 10

The weather through the final week of spring migration was not ideal, with only a couple of calm, warm days mixed between heavy wind and rain. Migration was almost non-existent except for large flocks of cedar waxwings moving through. The only Connecticut warbler of the spring was observed. Despite the low activity and weather banding was quite good with a total of 84 birds banded.

Fall Migration Monitoring

Fall migration monitoring is conducted for approximately 12 weeks from mid-July until late September. The time period covers the migratory window of the majority of the songbirds species expected at the LSLBO. Late fall species may have incomplete coverage if their migration extends into October. Light migration occurs during the opening week of fall migration, but most of the bird activity is from local birds. Migration activity quickly picks up by the third week of July. Pulses of heavy migration and busy banding can occur throughout late July, August, and until mid-September. Migration slows down through late September and consists of the few late migratory species and winter residents.

Fall migration monitoring was conducted from July 12 until September 29 for 80 days of coverage. The census and visual migration counts were conducted every day. Observers conducted 8 visual migration counts on 61 days; the remaining days received reduced counts due to poor weather. Poor weather conditions prevented mist-netting entirely on 6 days and forced reduced net hours on 40 days. Reduced net hours occurred when nets were closed in response to changing weather conditions throughout the day. A long stretch of poor weather lasted through late August into the first week of September and several periods of very poor weather occurred during late September. Migration coverage was excellent and the effort was comparable to previous years (Table 4).

Table 4. Summary of effort during fall migration monitoring at LSLBO, 2008-2016.

Coverage	**2008**	**2009**	**2010**	**2011**	**2012**	**2013**	**2014**	**2015**	**2016**
First Day	12-Jul	12-Jul	12-Jul	12- Jul	12-Jul	12-Jul	12-Jul	12-Jul	12-Jul
Last Day	2-Oct	28-Sep	30-Sep	30-Sep	29-Sep	29-Sep	30-Sep	30-Sep	29-Sep
Number of Days	76	77	80	81	80	80	79	81	80
Person-days	131	165	158	140	126	131	120	151	147
Average Daily Coverage Code	3.48	3.73	3.7	3.67	3.78	3.84	3.74	3.77	3.78
Banding									
Number of Days	74	75	77	75	77	76	76	74	74
Av. Daily Net Hrs.	75.7	78.9	81.5*	77.9*	82.1*	82.7*	80.2*	75.4*	76.0*
Census									
Number of Days	75	77	80	81	80	80	79	81	80
Vis-Migs									
Number of Days	76	77	80	81	80	80	79	81	80
Av Daily Vis-migs	7.5	7.6	7.5	7.3	7.6	7.6	7.5	7.5	7.5

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

Fall Migration Daily Totals

A total of 52,867 birds from 121 species were recorded during fall migration monitoring through the four monitoring methods. Mist-netting accounted for the lowest number and diversity of birds with 3136 birds from 56 species and was the only method that accounted for warbling vireo, gray-cheeked thrush, Nashville warbler, Connecticut warbler, bay-breasted warbler, and Oregon junco. Visual migration counts accounted for 4,034 birds from 37 species. Peregrine falcon was only detected on visual migration counts. Census accounted for 7,198 from 90 species. Double-crested cormorant was only detected on census. Incidental observations recorded the highest number of birds and species with 34,958 from 113 species. Eighteen species were only encountered incidentally and included snow goose, Cooper's hawk, Caspian tern (first observation since 2012), ruby-throated hummingbird, barn swallow, white-breasted nuthatch, and American goldfinch.

Some extent of songbird migration was observed nearly every day during the fall monitoring period, except for on extremely poor weather days (Figure 3). Migration began slow and steady through July and the first peak occurred in early August and lasted several days. Although a large diversity of species was observed during this peak, myrtle warblers and Tennessee warblers were the most abundant species. Migration fluctuated throughout August and early September because poor weather occurred every few days, which reduced migration and/or the ability to detect migrants. Myrtle warblers remained the most abundant migrant through August and September. The busiest migration day occurred on September 12 with a huge push of over 4000 myrtle warblers. The myrtle warbler migration continued for several days. Activity then dropped off significantly through the remainder of September.

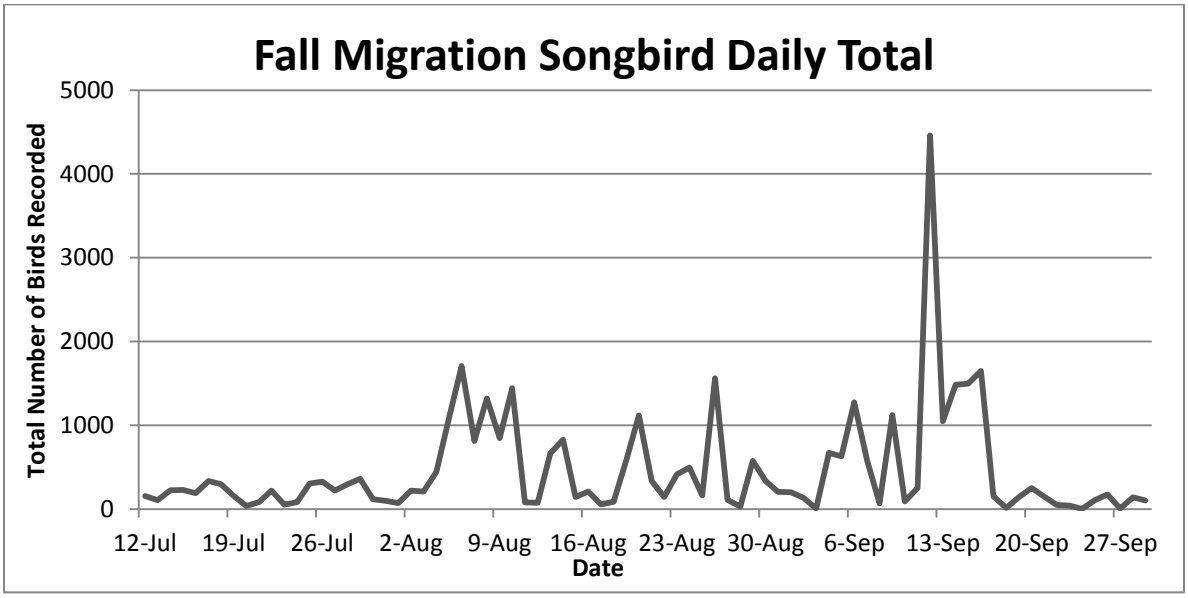

Figure 3. Total number of songbirds detected each day during fall migration, 2016.

Fall Migration Mist-Netting

Mist-nets were set for a total of 6082.3 net-hours, achieving 78% of the total possible net coverage. The twelve standard net-lanes were set for 5328.0 net hours and the two aerial nets were set for 754.2 net hours; achieving 79% of the possible standard net hours and 67% of the possible aerial net hours. A total of 2798 birds were banded and 335 recaptures were recorded. The banding total was well above the season average of 1903, representing the fourth highest fall banding total on record. Banding was steady through the first half of the fall then became more erratic during the second half with small peaks occurring early August and early September. The busiest banding occurred mid-September (Figure 4). The busiest banding day was September 12 with 287 birds banded, followed by September 14 with 221 banded, September 13 with 146 banded, September 15 with 115 banded, and September 4 with 101 banded.

A total of 56 species were banded during the fall, matching the seasonal average. The top five banded species were: Myrtle warbler (1126), Swainson's thrush (237), white-throated sparrow (159), ovenbird (131), and mourning warbler (105). These five species accounted for 63% of all birds banded in the fall. Highlights for banding included the first fall Oregon junco since 1997, the first fall boreal chickadee since 2005, and two Nashville warblers. Myrtle warblers recorded their second highest fall banding total, falling short of the record 1270 banded in 2002. Three species broke fall records: 13 hairy woodpeckers (surpassing 12 banded in 2015), 105 mourning warblers (surpassing 47 banded in 2015), and 159 white-throated sparrow (surpassing 96 banded in 2015). Fall banding totals for all species are listed in Appendix II.

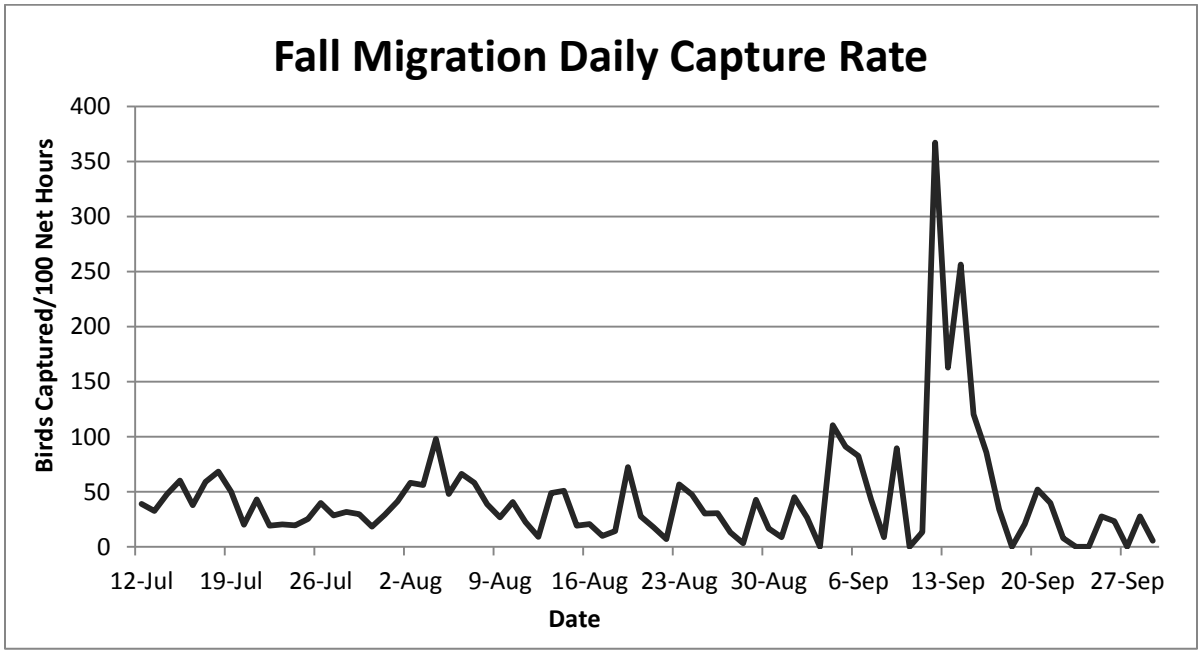

Figure 4. Daily capture rate during fall migration, 2016.

Fall Migration Net-Lane Productivity

The net-lanes used for fall migration are the same for spring migration with twelve standard nets designated 1 through 12 and two aerial nets designated 11x and 12x. 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 sheltered forest nets.

The fall capture rate was 51.5 birds per 100 net hours (Table 5). Net 6 is usually the most productive net at the LSLBO. This fall it had the highest capture rate with 228.6 birds per 100 net hours and species captured with 44. Net 9 had the lowest capture rate with 7.3 birds per 100 net hours and lowest species diversity with 10. The two aerial nets continue to perform well accounting for 23% of the birds banded in the fall. Net 11x had the second highest capture rate and second highest species diversity of all net-lanes.

Table 5. Capture rates for each net-lane during fall migration, 2015.

Net-lane	Net hours	New Captures	Returns and Repeats	Total Captured	Capture Rate (birds/100 net hours)	Number of Species
1	446.9	127	16	143	32.0	25
2	446.9	101	22	123	27.5	16
3	458.6	54	12	66	14.4	11
4	448.6	73	15	88	19.6	20
5	462.6	272	64	336	72.6	34
6	380.2	812	57	869	228.6	44
7	466.1	61	9	70	15.0	13
8	466.1	136	6	142	30.5	23
9	464.6	24	10	34	7.3	10
10	464.6	44	12	56	12.1	14
11	359.0	224	16	240	66.9	39
12	464.1	238	42	280	60.3	32
Standard Net Total	5328.1	2166	281	2447	45.9	54
11x	339.8	352	16	368	108.3	39
12x	414.5	279	38	317	76.5	38
Aerial Net Total	754.2	631	54	685	90.8	47
Grand Total	**6082.3**	**2798**	**335**	**3133**	**51.5**	**56**

Fall Migration Weekly Summary

July 12 to July 18

The weather through the opening week of fall migration was sunny and warm. It was clear on the opening day that fall migration had begun as a small number of myrtle warblers were observed moving through. Migration was light through the week, and consisted of mostly warblers: myrtle warbler, yellow warbler, Tennessee warbler, and black-and-white warbler. The weather was excellent for mist-netting and all days received full coverage. A total of 286 birds were banded.

July 19 to July 25

The weather through most of the week was very windy, creating poor conditions for any type of migration and greatly reducing the ability to detect any bird movement that may have occurred. Only Franklin gulls were active and several large groups were seen riding the winds along the shore. The winds calmed down late in the week and light songbird migration resumed with myrtle warbler, Tennessee warbler, and small numbers of yellow warbler and American redstart. Swainson's thrush were moving stealthily through the forest and were one of the top banded species. The heavy winds reduced mist-netting coverage and a total of 111 birds were banded.

July 26 to August 1

The first half of the week was sunny and very hot, but conditions turned overcast, windy and drizzly late in the week. Overall migration was extremely light. Only a small number of warblers, including myrtle warbler, Tennessee warbler, and American redstart were observed. Large flocks of Franklin gulls continued to move along the shoreline. Weather conditions were excellent for banding through most of the week, but the coverage was reduced over the last two days. A total of 144 birds were banded through the week and Swainson's thrush continued to be the top banded species on most days.

August 2 to August 8

We experienced fabulous summer weather this week; it was sunny and hot for the entire week. Migration started slow through the first half, but became quite busy through the second half of the week. Most of the migration occurred during the early part of the morning and died down when the temperatures became hot. There was also a good amount of foraging flocks moving through. A wide diversity of species were observed and banded through the week. Good numbers of myrtle warblers, Tennessee warblers, American redstart, Swainson's thrush, ovenbird, Canada warbler, and mourning warbler were observed. The weather was ideal for banding and a total of 346 birds were banded.

August 9 to August 15

The strong migration push continued through the first few days of the week as good numbers of myrtle warblers and Tennessee warblers continued to move through. Passage halted mid-week for a few days because of poor, windy weather. Conditions improved and the week ended with good weather and light, but steady migration. We recorded the last fall sightings of tree swallow, bank swallow, barn swallow, and black-throated green warbler during the week. Most days received good net coverage and a total of 179 birds were banded

August 16 to August 22

The week began with a couple days of rain and wind. Migration picked up mid-week when the weather improved. Warbler migration continued to be strong, primarily myrtle warbler and Tennessee warbler. The poor weather returned with more wind and rain to close the week. The highlight of the week was an interesting migration of broad-winged hawks that occurred on August 21 with 34 observed passing very high overhead. Additionally, American pipit and orange-crowned warbler began their fall migration through the area. The last fall sightings of yellow-bellied sapsucker, eastern phoebe, and Say's phoebe occurred during the week. The poor weather greatly reduced mist-netting and a total of 133 birds were banded.

August 23 to August 29

Most of the week was cloudy and cool. Moderate winds persisted through the week and there were a few periods of rain. Migration was light through most of the week, except on the 26 which brought a heavy migration of myrtle warblers and good numbers of sharp-shinned hawks. The week saw the last fall sightings of Cape May warbler, Canada warbler, and LeConte's sparrow, but the first fall white-crowned sparrow and dark-eyed juncos began to move through. Only one day received full net coverage because of all the poor weather and a total of 167 birds were banded.

August 30 to September 5

It was a lousy week in terms of weather. Most of the week was filled with heavy wind and periods of rain which limited migratory activity and greatly reduced mist-netting effort. Conditions improved the last two days of the week and migration activity picked up. Myrtle warblers remained the most prominent migrant, but small numbers of a wide range of species were observed. The week brought the last fall sightings of eastern kingbird, blue-headed vireo, mourning warbler, western tanager, and rose-breasted grosbeak. The first gray-cheeked thrush of the fall was observed and the first flocks of greater-white fronted geese began to move through. Even though mist-netting effort was low for most of the week due to the weather, a total of 225 birds were banded. September 4 was one of the busier banding days of the fall with 101 birds banded. Myrtle warblers made up most of the birds captured that day.

September 6 to September 12

The week was mixed between very nice fall days and extremely windy days. Migration was strong during the calm days and consisted mostly of myrtle warblers. A few other species were moving through in good numbers, including sharp-shinned hawk, white-throated sparrow, and American pipit moving along the shore. September 12 was the busiest day of the fall at the LSLBO in terms of both active migration and banding. Myrtle warblers were the predominate species that day with over 3000 counted and 249 banded. Orange-crowned warblers were also present in good numbers, but there were few other species observed. The last fall sightings of alder flycatcher, least flycatcher, Philadelphia vireo, red-eyed vireo, ovenbird, northern waterthrush, black-and-white warbler, bay-breasted warbler, and song sparrow occurred during the week. The first American tree sparrows of the fall began migrating through the area. Banding was spectacular, considering the windy conditions prevented mist-netting on several days of the week. A total of 481 birds were banded, which included the busiest banding day of the fall, September 12 with 287 birds banded.

September 13 to September 19

The heavy myrtle warbler migration continued through the first half of the week; they were observed in the 1000's over the first half of the week and then began to slow by-mid week. They also made up the majority of the birds banded. Overshadowed by the myrtle warblers were the black-capped chickadees, orange-crowned warblers, American tree sparrows, and dark-eyed juncos that were trickling through. The week saw the last fall sightings of Swainson's thrush, Tennessee warbler, common yellowthroat, American redstart, magnolia warbler, blackpoll warbler, Wilson's warbler, chipping sparrow, and clay-colored sparrow. A total of 589 birds were banded. The busy banding continued from the previous week over the first three days and consisted mostly of myrtle warblers. Poor weather conditions returned late in the week and completely halted all bird activity.

September 20 to September 29

The final stretch of fall migration was a mix of very pleasant fall days and several days of extremely poor days with heavy wind and rain. Migration activity was light with only a few of the late fall species moving through: mostly American tree sparrows and dark-eyed juncos with a few orange-crowned warblers and ruby-crowned kinglets observed. There were infrequent, but large groups of black-capped chickadees moving through. Several days saw reduced net hours because of the weather, and a total of 136 birds were banded. The last few days of the month saw tundra swans moving through and one of the highlights of the fall, Caspian terns. The migration station closed for the season on September 29.

Monitoring Avian Productivity and Survivorship (MAPS)

Monitoring Avian Productivity and Survivorship (MAPS) is a continent wide program coordinated by the Institute for Bird Populations which uses demographic parameters of landbirds monitored at breeding sites to help identify factors driving population change. The LSLBO has contributed to the MAPS program since 1994 and it remains one of the core monitoring programs. 2016 marked the 23rd year that the LSLBO has participated in MAPS.

The LSLBO operates four MAPS stations coded FAWA, FEGU, RESI, and ROAD. Three stations (FAWA, FEGU, and ROAD) are located in the forest adjacent to the migration monitoring station. RESI is located near the Boreal Centre for Bird Conservation. FAWA and ROAD have operated for all 23 years. FEGU operated from 1994 to 2000, then was reopened in 2003 and has since operated for 13 years. RESI was established in 2000 and has completed its 16th year of operation. Each station is visited once every 10 day period. Each visit consists of constant-effort mist-netting and visual observation to determine species' breeding status. All activities follow the protocols outlined in the MAPS Manual. The LSLBO operates through six periods; the dates that each station operated in 2016 were:

	FAWA	**FEGU**	**ROAD**	**RESI**
Period 5 (Jun 10 – 19)	June 11	June 13	June 13	June 18
Period 6 (Jun 20 – 29)	June 20	June 21	June 21	June 22
Period 7 (Jun 30 – Jul 9)	July 1	July 3	July 3	June 30
Period 8 (Jul 10 - Jul 19)	July 12	July 13	July 14	July 11
Period 9 (Jul 20 – 29)	July 22	July 23	July 24	July 21
Period 10 (Jul 30 – Aug 8)	August 1	August 2	August 3	July 30

Each MAPS station operates 10 mist-nets for 6 hours each visit for a maximum of 360 net-hours for the season. RESI received 347.5 because net-lane 7 was flooded for the first two periods. FAWA received 345 net-hours due to rain during period 5. FEGU received 348 due to rain on period 7 and wind during period 9. ROAD received full net coverage.

A total of 369 birds were captured; 252 banded and 127 recaptures representing 28 species (Table 6). The banding total was slightly above the MAPS average of 225. RESI had the highest capture total, recording 132 birds from 20 species. FEGU recorded 93 birds captured from 18 species. FAWA recorded 79 birds from 11 species. ROAD had the lowest number of captures with 74 birds from 15 species. No new species were added to the banding records at any station. Several species were banded in record numbers during the MAPS banding: mourning warbler, common yellowthroat, and yellow warbler. Tennessee warblers are typically a common breeder in the MAPS stations, but this was the first year that no Tennessee warblers were banded at any station.

Table 6. Number of birds banded and recaptured at the four MAPS stations in 2016.

Species	FAWA		ROAD		RESI		FEGU		Total
	Band	Recap	Band	Recap	Band	Recap	Band	Recap	
American Redstart	7	1	1	6			16		31
American Robin			2		1				3
Black-and-white Warbler			1		2	2			5
Black-capped Chickadee								2	2
Blue Jay							1		1
Black Throated-green					1				1
Canada Warbler	4	3	7	7	4	5	7		37
Cedar Waxwing					3		1		4
Chipping Sparrow					1			1	2
Common Yellowthroat	1				2		1	2	6
Hairy Woodpecker			1	1					2
Least Flycatcher	3								3
Lincoln's Sparrow	2				12	1		1	16
Magnolia Warbler			1	1	2		2		6
Mourning Warbler	8	12	3	3	14		11	4	55
Myrtle Warbler			2		9	1		4	16
Northern Waterthrush					1				1
Ovenbird	2		4	5	11	11	4	3	40
Purple Finch					1				1
Red-eyed Vireo					1		1		2
Song Sparrow	1						1		2
Sharp-shinned Hawk				1					1
Swainson's Thrush			5	1	12	3	3	3	27
Winter Wren			1	2	1	1	1		6
White-throated Sparrow	18	14	6	7	19	5	13	7	89
Yellow-bellied Sapsucker	1		1	1		1			4
Yellow Warbler	2			5	5		4		16
Total	49	30	35	40	102	30	66	27	379

Breeding Status

Breeding status was determined for the 69 species encountered during MAPS station visits in 2015 (Table 7). The breeder status (B) was given to species with strong evidence supporting an active nest within the boundaries of the MAPS station. Likely breeders (L) were species observed at a station, but lacked strong evidence of breeding within the boundaries of the MAPS station. Transient species (T) were observed at a station, but it is unlikely that they breed within the stations boundaries. Observations were restricted to MAPS banding site visits only.

Table 7. Breeding status of MAPS birds in 2016.

Species	RESI	ROAD	FEGU	FAWA	Species	RESI	ROAD	FEGU	FAWA
Mallard	T				Winter Wren	B	B	B	
Blue-winged Teal	T				Swainson's Thrush	B	B	B	T
Common Goldeneye	T			T	Hermit Thrush	B			
Ruffed Grouse	B	B	B		American Robin	B	B		L
Common Loon	T				Cedar Waxwing	T	T	T	T
Bald Eagle		T			Ovenbird	B	B	B	B
Sharp-shinned Hawk	T		T		Northern Waterthrush	T			
Greater Yellowlegs				T	Black-and-white Warb	B	B	B	L
Franklin's Gull			T	T	Tennessee Warbler	B	T	T	T
Ring-billed Gull			T		Mourning Warbler	B	B	B	B
Barred Owl		T	T		Common Yellowthroat	B		T	L
Common Nighthawk					American Redstart	B	L	B	B
Ruby-throated Hmbird			T		Magnolia Warbler	B	B	B	T
Yellow-bellied Sapsucker	B	T	L	T	Bay-breasted Warbler	L			
Downy Woodpecker		T		T	Blackburnian Warbler	B			
Hairy Woodpecker	B	T	B	T	Yellow Warbler	B	L	B	B
Northern Flicker	T				Blackpoll Warbler				T
Pileated Woodpecker	T	T		T	Yellow-rump'd Warb.	B	B	B	B
Western Wood-pewee				T	Black-tht Green Warbler	L			
Alder Flycatcher			T	T	Canada Warbler	B	B	B	B
Least Flycatcher	B		B	B	Chipping Sparrow	L	B		
Eastern Phoebe		B			Clay-colored Sparrow		T		
Blue-headed Vireo	B	T		T	Song Sparrow			T	T
Warbling Vireo	L	T	T	T	Lincoln's Sparrow	B	T		B
Philadelphia Vireo	B	L	T	L	White-thrt'd Sparrow	B	B	B	B
Red-eyed Vireo	B	B	B	B	Western Tanager	B	B	B	B
Gray Jay	T				Rose-breast'd Grosbeak	L	T	T	T
Blue Jay	T	T	T		Red-winged Blackbird				T
American Crow	T	L	T		Brown-headed Cowbird				T
Common Raven	T	T	T	T	Baltimore Oriole				T
Black-capped Chickadee	B	L	T	T	Purple Finch	T	T	T	T
Boreal Chickadee	L				Pine Siskin	T	T	T	T
Red-breasted Nuthatch	B	L		T	American Goldfinch				T
White-breasted Nuthatch			T		Evening Grosbeak	T	T	T	T
Brown Creeper	L	T	T						

	RESI	ROAD	FEGU	FAWA
Total sp. Breeder (B)	27	15	16	11
Total sp. Likely (L)	7	6	1	4
Total sp Transient (T)	16	19	22	28
Total sp.	50	40	39	43

Northern Saw-whet Owl Monitoring

Northern saw-whet owl fall migration monitoring began in 2004 was conducted for the 13th consecutive year in 2016. Northern Saw-whet owl monitoring occurred on 44 nights from September 1 to October 29. The four mist-nets were set for a total of 696 net hours. The nets were closed entirely on 15 nights and poor weather reduced net effort on five nights. A total of 104 northern saw-whet owls were captured: 100 banded and 4 recaptures. The capture rate was 14.9 owls per 100 net hours, which was below the average of 17.1 saw-whets per 100 net hours (Figure 5).

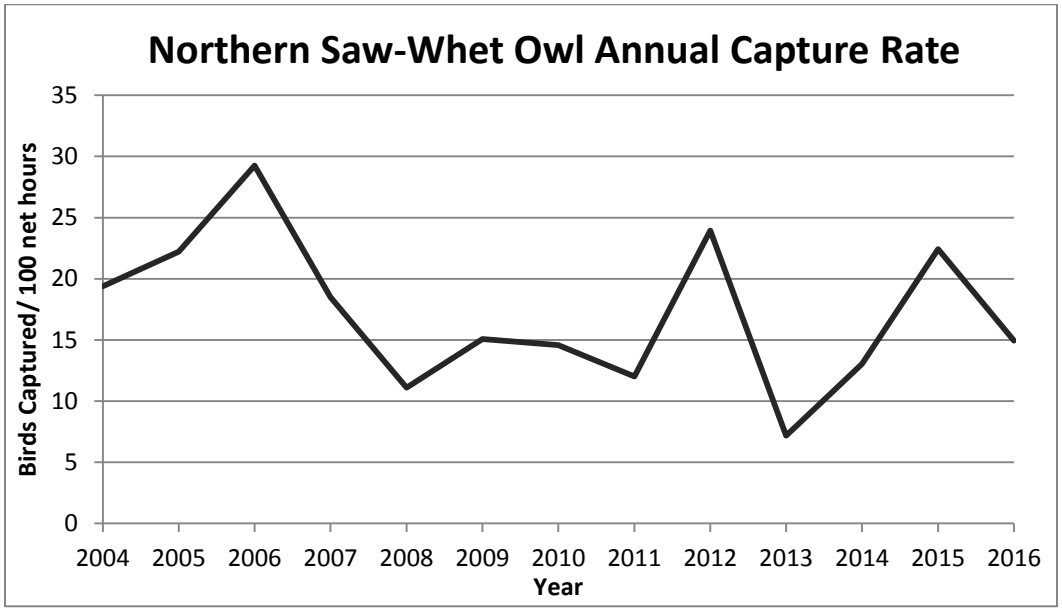

Figure 5. Annual capture rate of northern saw-whet owls. Net-lane location was moved in 2013.

Boreal Owl Monitoring

The LSLBO tested a new net array, consisting of two nets, which targeted boreal owls. These nets were located a short distance from the current northern saw-whet owl mist-nets and ran simultaneously with the northern saw-whet owl nets. The boreal owl nets were set on 28 nights from September 21 to October 29 for a total of 223 net hours. Seven boreal owls were banded and an additional seven northern saw-whet owls were banded.

Recaptures

The LSLBO recorded 562 recapture records during the 2016 banding season: 96 during spring migration, 335 during fall migration, 127 during MAPS, and 4 during northern saw-whet owl monitoring. These recapture records represent 323 individuals from 31 species. Of these, 255 were banded in 2016 and recaptured later in the season, 40 were banded in 2015, and 28 were banded before 2015 and represent the oldest known aged birds encountered during the banding season (Table 8). The oldest know-aged bird in 2016 was a Myrtle warbler banded as an ASY in the spring of 2012, making it at least six years old.

Table 8. Age of recaptured birds originally banded at the LSLBO before 2015.

Species	**Band Number**	Original Banding			Recapture		Age (Years)
		Date	Location	Age	**Date**	**Location**	
Northern Saw-whet Owl	0924-53281	Sept, 30, 2014	NSWO	HY	Oct 5	NSWO	2
Ovenbird	2351-34952	Aug 2, 2014	Mig	HY	May 22	Mig	2
Canada Warbler	2710-92265	July 24, 2014	Mig	HY	July 14	Mig	2
Black-capped Chickadee	2730-80983	Sept 9, 2013	Mig	HY	Apr 25	Mig	3
Black-capped Chickadee	2730-93060	April 29, 2014	Mig	SY	Apr 19	Mig	3
Ovenbird	2351-35065	June 30, 2014	RESI	SY	June 30	RESI	3
Common Yellowthroat	2730-80661	June 22, 2014	RESI	SY	July 11	RESI	3
Myrtle Warbler	2730-93200	May 28, 2014	Mig	SY	May 11	Mig	3
Lincoln's Sparrow	2351-34798	May 28, 2014	Mig	SY	May 16	Mig	3
White-throated Sparrow	2431-87785	June 23,2014	FAWA	SY	June 11	FAWA	3
White-throated Sparrow	2431-87800	July 2, 2014	FEGU	SY	June 21	FEGU	3
Black-and-white Warbler	2710-92423	Aug 13, 2014	Mig	AHY	June 21	ROAD	3+
Canada Warbler	2710-92202	July 12, 2014	Mig	AHY	June 11	FAWA	3+
White-throated Sparrow	2341-93606	July 23, 2014	Mig	AHY	May 18	Mig	3+
Mourning Warbler	2730-80621	July 4, 2013	RESI	SY	June 22	RESI	4
Yellow Warbler	2730-80612	July 2, 2013	FEGU	SY	June 21	FEGU	4
Canada Warbler	2730-80605	June 23, 2013	FEGU	SY	June 21	FEGU	4
Black-capped Chickadee	2730-93082	May 7, 2014	Mig	ASY	Aug 24	Mig	4+
Swainson's Thrush	2431-87792	June 30, 2014	RESI	ASY	June 22	RESI	4+
Ovenbird	2351-35062	June 30, 2014	RESI	ASY	June 18	RESI	4+
American Redstart	2530-53712	June 13, 2014	FEGU	ASY	July 3	FEGU	4+
Myrtle Warbler	2710-92123	May 31, 2014	Mig	ASY	May 29	Mig	4+
Canada Warbler	2730-80615	July 2, 2013	FEGU	AHY	June 21	FEGU	4+
Canada Warbler	2590-66069	July 2, 2012	FAWA	SY	June 20	FAWA	5
Myrtle Warbler	2730-80618	July 4, 2013	RESI	ASY	June 18	RESI	5+
Canada Warbler	2640-16076	July 16, 2012	Mig	AHY	July 14	ROAD	5+
Canada Warbler	2590-66020	July 2, 2011	FEGU	SY	June 21	FEGU	6
Myrtle Warbler	2590-65924	May 7, 2012	Mig	ASY	May 26	Mig	6+

Collaborative Projects

The LSLBO participated in two collaborative projects this season. The first project was a continuation of the Canada warbler geolocator work being conducted by the University of Manitoba. The goal of this project was to track Canada warbler migration and wintering locations with light level recorders. Field work on this project began in 2014 when Dr. Kevin Fraser, volunteers, and LSLBO banding staff deployed 40 geolocators on Canada warblers throughout the Lesser Slave Lake Provincial Park. The project continued in 2015 when graduate student Amélie Roberto-Charron, along with volunteers and LSLBO staff, deployed another 40 geolocators and attempted to recover units from birds returning the previous year. Only four units were recovered. This year, no new geolocators were deployed in the area, but LSLBO staff attempted to recover the units deployed in 2016. We recovered eight geolocators. We are anxiously waiting for the results of this exciting project.

The second project was working with Dr. Natalie Boelman from Columbia University. Her group was working with NASA's Arctic-Boreal Vulnerability Experiment (ABoVE), which is a large scale study with the goal of understanding the vulnerability and resilience of ecosystems and society to this changing environment in western Canada and Alaska. Natalie's focus was on animals on the move, which investigates how highly mobile animals are influenced by canopy structure and extreme environmental conditions. Her focus was on birds. Her group retained the LSLBO's assistant bander, Nicole Krikun, to deploy 30 GPS tags on American Robins during spring migration. The GPS tags were deployed through late April at the Boreal Centre for Bird Conservation. We are anxiously waiting for the results of this exciting project.

Publications

The LSLBO has been involved in two publications in the past year. The first publication was from the Canada warbler work conducted by the LSLBO in 2012 and 2013. The second publication was from contributions from the LSLBO to a project conducted by the University of Alberta.

Flockhart, D., G. W. Mitchell, R. G. Krikun and E. M. Bayne. 2016. Factors driving territory size and breeding success in a threatened migratory songbird, the Canada Warbler. Avian Conservation and Ecology 11 (2):4. [online] URL: http://www.ace-eco.org/vol11/iss2/art4/

Nordell CJ, S. Haché , E.M. Bayne, P. Sólymos, K.R. Foster, C.M. Godwin, R. Krikun, P. Pyle, and K. Hobson. 2016. Within-Site Variation in Feather Stable Hydrogen Isotope (δ^2H_f) Values of Boreal Songbirds: Implications for Assignment to Molt Origin. PLoS ONE 11(11): e0163957. doi:10.1371/journal.pone.0163957

Staff and Volunteers

The LSLBO accumulated a total of 335 person days between staff and volunteers throughout the monitoring projects in 2016 (Table 9). The LSLBO operated with three full time field staff; two licensed banders and one student field assistant. Volunteer support was low with a total of 22 volunteer person days.

Table 9. Staff and volunteer person days through monitoring programs, 2016.

	Spring	**MAPS**	**Fall**	**NSWO**	**Total**
LSLBO Staff					
Richard Krikun	42	13	53	1	108
Nicole Krikun	29	11	46	43	129
Robyn Perkins	30	9	37	3	76
Total	**101**	**33**	**136**	**47**	**313**
Volunteers					
Marta Edgar	4				4
Everett Hanna	3				3
Caitlin Willier	3				3
Myles Grieve			6		6
Marika Olynyk			2		2
Michelle MacMillan			1		1
Javan Green			1	1	2
Amber Walters			1		1
Total	**10**		**11**	**1**	**22**

Visitors and Education

Education remains an important aspect of the LSLBO's mandate. Various programs coordinated through the Boreal Centre for Bird Conservation (BCBC) provide visitors and students the opportunity to learn more about birds, conservation, and the role of research and monitoring. The LSLBO also hosts drop-in events throughout the summer to allow summer visitors exploring the area a chance to see some bird-banding up close and learn about bird research and conservation efforts. These programs and events allow all visitors a unique experience while maintaining bird safety and accurate data recording.

In 2016, the LSLBO received over 1000 visitors to bird banding activities (Table 10). Spring migration had the most visitors, which is largely due to school programming and the annual Songbird Festival, which was held on May 28. School programming included grades 1, 4, 9, biology 30, Northern Lakes College, and Concordia University. Fall migration had fewer visitors, but the bulk were from the 14 drop-in banding lab tours and two Junior Forest Rangers

groups. Several events also focused on the owl monitoring program, which included two grade 9 classes, a group from the Alberta Parks Volunteer Conference, and a family owl night program.

Table 10. Number of visitors in 2016.

Program	Adults	Children	Total
Spring Migration	213	250	455
Fall Migration	320	114	434
Northern Saw-whet Owls	79	55	134
Total	**612**	**419**	**1023**

Acknowledgements

The LSLBO would like to thank the following people and organizations whose hard work, dedication, and contributions made 2016 a very successful year.

LSLBO Board of Directors: Bob Deacon (Chair), Terry Kristoff (Vice-chair), Ronda Groom (Treasurer), Tyler Flockhart (Director of Field Research), Nelson Lutz (Director at Large), Neal Knoot (Director at Large), Allan Bell (Director at Large), and Brandy Walters (Director at Large).

Executive Director: Patti Campsall

LSLBO Banders: Richard Krikun, Nicole Krikun, Robyn Perkins

Boreal Centre Staff and Educators: Michelle MacMillan, Cori Klassen, Susie VanderVaart, Vicki Lukan

Alberta Parks Staff: Ceiridwen Robbins, Marika Olynyk, Zoe Crandall

Banding Lab Volunteers: Marta Edgar, Everett Hanna, Caitlin Willier, Myles Grieve, Javan Green, and Amber Walters

Our Good Friends: Aaron Lehman, Wayne Bowles

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

New Banding Lab Project

In the fall of 2015, the Lesser Slave Lake Bird Observatory Society began coordinating the construction and installation of a new banding lab facility to replace the existing ageing structure. While maintaining the existing footprint, the lab interior was redesigned to make it work more effectively for field staff during school programs and public banding lab tours. Thanks to the generous corporate support from the community of Slave Lake and hard work of our LSLBO board and members, the building was installed and operational for the start of Spring Migration. We would like to thank everyone who sponsored our new Banding Lab and so generously donated materials for this special project and their time during the many work bees to finish off the building in time for spring migration.

Northern Lakes College - Trades and Technology
Alberta Parks - Lesser Slave Lake Provincial Park
Vanderwell Contractors (1971) Ltd.
West Fraser
Tolko Industries
Ray Stern Homes
Timberland Home Hardware
Nelson Lumber - Slave Lake
Emile Labby Trucking
Dave MacConnell – Solar installation
One Sun Grafiks
Slave Lake Building Movers
Marten Mountain Metal Works Ltd
Truebeam Trusses
And especially our LSLBO Board and Members

LSLBO members and supporters celebrate the Grand Opening of the new LSLBO banding lab

Supporters

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Appendix I. 2016 Migration Occurrence Records

The following charts summarize the occurrences of the 158 species encountered during spring and fall migration monitoring in 2016. 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	722.47	45.57	14.29	0.00	0.00	0.00	0.00	197.47
# Days Observed	7	3	1	0	0	0	0	11
	First Date: April 16- 50		Last Date: May 11- 100			Peak Date: April 27- 6010		

	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	468.57	214.29	54.29	25.71	0.00	65.93
# Days Observed	0	0	0	0	0	0	0	2	5	2	1	0	10
	First Date: September 4- 2780			Peak Date: September 20- 180				Peak Date: September 4- 2780					

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	0.60	7.14	21.43	0.00	0.00	0.00	0.00	3.67
# Days Observed	1	1	1	0	0	0	0	3
	First Date: April 29- 9		Last Date: May 11- 150			Peak Date: May 11- 150		

	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.14	2.86	0.00	0.35
# Days Observed	0	0	0	0	0	0	0	0	0	1	1	0	2
	First Date: September 15- 8			Peak Date: September 20- 20				Peak Date: September 20- 20					

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	23.47	4.71	2.86	3.71	3.71	40.29	4.71	13.54
# Days Observed	14	6	6	6	6	6	5	49
	First Date: April 15- 16		Last Date: June 8- 2			Peak Date: June 2- 164		

	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	0.00	0.00	0.00	2.86	3.57	1.57	16.57	12.43	2.71	5.71	0.29	0.00	3.95
# Days Observed	0	0	0	1	3	4	6	4	3	1	1	0	23
	First Date: August 6- 20			Peak Date: September 22- 2				Peak Date: August 30- 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	80.27	0.00	0.00	0.00	0.00	0.00	0.00	21.12
# Days Observed	10	0	0	0	0	0	0	10
	First Date: April 15- 345		Last Date: April 27- 20			Peak Date: April 15- 345		

	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.33	0.38
# Days Observed	0	0	0	0	0	0	0	0	0	0	0	1	1
	First Date: September 28- 31			Peak Date: September 28- 31				Peak Date: September 28- 31					

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	6.93	2.14	1.14	0.00	0.00	0.00	0.00	2.23
# Days Observed	9	5	4	0	0	0	0	18
	First Date: April 16- 6		Last Date: May 12- 2			Peak Date: April 19- 49		

Mallard (*Anas platyrhynchos*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	10.53	8.29	6.57	8.71	6.71	4.14	2.71	7.33
# Days Observed	15	7	6	7	7	7	6	55
	First Date: April 15- 6		Last Date: June 9- 4			Peak Date: April 16- 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	0.43	0.43	2.00	3.43	8.57	2.71	2.00	3.14	1.43	1.71	0.29	0.00	2.26
# Days Observed	3	2	4	6	7	6	5	5	5	4	1	0	48
	First Date: July 12- 1				Peak Date: September 22- 2				Peak Date: August 9- 18				

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	0.00	5.43	1.86	4.14	0.71	0.29	0.14	1.54
# Days Observed	0	5	6	7	3	1	1	23
	First Date: April 30- 7		Last Date: June 4- 1			Peak Date: May 3- 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	0.00	0.00	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
# Days Observed	0	0	1	0	0	0	0	0	0	0	0	0	1
	First Date: July 31- 2				Peak Date: July 31- 2				Peak Date: July 31- 2				

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	1.47	0.14	0.43	0.29	0.00	0.57	0.00	0.56
# Days Observed	4	1	1	1	0	1	0	8
	First Date: April 16- 5		Last Date: June 2- 4			Peak Date: April 20- 13		

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	0.33	0.00	0.00	1.43	0.00	0.00	0.00	0.26
# Days Observed	1	0	0	1	0	0	0	2
	First Date: April 20- 5		Last Date: May 20- 10			Peak Date: May 20- 10		

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	1.87	2.00	1.29	1.57	1.29	1.57	0.29	1.47
# Days Observed	3	6	4	6	4	6	1	30
	First Date: April 18- 6		Last Date: June 6- 2			Peak Date: April 23- 18		

Redhead (*Aythya americana*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0.00	0.00	0.00	0.00	0.57	0.00	0.00	0.07
# Days Observed	0	0	0	0	1	0	0	1
	First Date: May 25- 4		Last Date: May 25- 4			Peak Date: May 25- 4		

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	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.05
# Days Observed	1	0	0	0	0	0	0	1
	First Date: April 20- 3		Last Date: April 20- 3			Peak Date: April 20- 3		

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	0.00	0.29	0.00	0.00	0.00	0.00	0.00	0.04
# Days Observed	0	1	0	0	0	0	0	1
	First Date: May 3- 2		Last Date: May 3- 2			Peak Date: May 3- 2		

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	0.00	0.00	0.00	0.00	0.86	0.00	0.00	0.11
# Days Observed	0	0	0	0	1	0	0	1
	First Date: May 25- 6		Last Date: May 25- 6			Peak Date: May 25- 6		

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	0.00	10.00	32.43	26.57	5.14	5.43	0.00	9.77
# Days Observed	0	2	5	5	2	2	0	16
	First Date: May 3- 61		Last Date: May 31- 20			Peak Date: May 14- 105		

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	0.00	0.00	1.14	3.00	0.14	0.00	0.00	0.53
# Days Observed	0	0	3	3	1	0	0	7
	First Date: May 7- 2		Last Date: May 25- 1			Peak Date: May 14- 12		

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	2.33	68.14	0.71	0.00	0.00	0.00	0.00	9.07
# Days Observed	2	7	1	0	0	0	0	10
	First Date: April 26- 17		Last Date: May 7- 5			Peak Date: May 5- 175		

Bufflehead (*Bucephala albeola*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0.40	2.00	0.43	0.00	0.71	0.29	0.00	0.53
# Days Observed	3	4	2	0	3	1	0	13
	First Date: April 19- 2		Last Date: May 31- 2			Peak Date: May 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.57	13.33	1.49
# Days Observed	0	0	0	0	0	0	0	0	0	0	4	2	6
	First Date: September 21- 5				Peak Date: September 29- 20				Peak Date: September 25- 60				

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	11.60	12.00	9.00	7.00	8.71	6.43	3.71	8.81
# Days Observed	15	7	7	7	7	7	7	57
	First Date: April 15- 7		Last Date: June 10- 2			Peak Date: April 19- 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	0.43	1.71	0.00	0.86	6.14	1.43	0.71	0.71	0.57	4.29	23.71	8.00	3.80
# Days Observed	3	3	0	3	6	4	2	2	2	5	6	3	39
	First Date: July 14- 1				Peak Date: September 29- 15				Peak Date: September 23- 44				

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	10.27	6.57	5.57	13.86	17.57	11.00	8.43	10.44
# Days Observed	14	7	7	7	7	7	7	56
	First Date: April 15- 14		Last Date: June 10- 22			Peak Date: May 23- 48		

	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	1.00	1.43	4.57	1.86	1.14	5.57	2.86	1.29	7.14	1.43	0.33	2.53
# Days Observed	3	5	4	4	2	3	4	4	3	6	2	1	41
	First Date: July 13- 1				Peak Date: September 29- 1				Peak Date: September 14- 25				

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	0.27	1.14	2.57	1.00	0.00	0.00	0.00	0.65
# Days Observed	2	4	4	3	0	0	0	13
	First Date: April 17- 2		Last Date: May 18- 3			Peak Date: May 11- 12		

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	2.07	1.14	0.86	1.14	0.86	0.14	0.14	1.07
# Days Observed	14	7	6	5	5	1	1	39
	First Date: April 15- 3		Last Date: June 4- 1			Peak Date: 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	0.00	0.14	0.14	0.00	0.14	0.14	0.86	0.43	1.00	1.43	0.86	1.33	0.49
# Days Observed	0	1	1	0	1	1	3	3	4	6	4	2	26
	First Date: July 20- 1				Peak Date: September 29- 2				Peak Date: 3 Dates- 4				

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	0.20	1.57	2.00	2.14	1.14	1.57	1.71	1.30
# Days Observed	2	7	7	7	7	6	7	43
	First Date: April 26- 1			Last Date: June 10- 1			Peak Date: May 2 & 15- 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	3.00	2.00	1.57	1.86	1.57	3.86	0.71	2.71	0.57	4.86	0.29	0.00	1.99
# Days Observed	7	4	6	5	5	5	4	5	4	5	2	0	52
	First Date: July 12- 1				Peak Date: September 26- 1					Peak Date: September 16- 17			

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	2.00	4.00	2.86	2.29	1.86	1.86	1.57	2.30
# Days Observed	4	7	5	6	4	5	4	35
	First Date: April 25- 3		Last Date: June 8- 2			Peak Date: April 26- 20		

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	0.57	0.57	0.86	2.00	2.14	2.29	1.57	1.43	1.43	2.29	1.14	1.00	1.44
# Days Observed	2	2	2	5	5	6	7	6	5	6	4	2	52
	First Date: July 15- 2				Peak Date: September 29- 2				Peak Date: August 10- 6				

Eared Grebe (*Podiceps nigricollis*)

	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.14	0.00	0.00	0.10
# Days Observed	0	0	0	0	0	0	0	0	0	1	0	0	1
	First Date: September 17- 8				Peak Date: September 17- 8				Peak Date: September 17- 8				

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	0.00	0.00	0.00	0.00	0.43	0.00	0.00	0.05
# Days Observed	0	0	0	0	1	0	0	1
	First Date: May 25- 3		Last Date: May 25- 3			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	0.00	0.00	0.14	0.00	0.29	0.14	0.00	0.00	0.00	0.57	0.14	0.00	0.11
# Days Observed	0	0	1	0	2	1	0	0	0	2	1	0	7
	First Date: July 28- 1				Peak Date: September 20- 1				Peak Date: September 19- 3				

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	0.00	1.29	0.00	1.14	1.00	0.00	0.00	0.42
# Days Observed	0	1	0	1	1	0	0	3
	First Date: May 5- 9		Last Date: May 25- 7			Peak Date: May 5- 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	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.01
# Days Observed	0	0	0	0	0	1	0	0	0	0	0	0	1
	First Date: August 21- 1				Peak Date: August 21- 1				Peak Date: August 21- 1				

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	0.00	0.00	0.14	0.00	2.00	0.43	0.00	0.32
# Days Observed	0	0	1	0	3	1	0	5
	First Date: May 11- 1		Last Date: May 29- 3			Peak Date: May 21- 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	0.14	0.00	0.00	0.00	0.14	0.14	0.43	3.00	1.57	0.00	0.00	0.00	0.47
# Days Observed	1	0	0	0	1	1	1	5	5	0	0	0	14
	First Date: July 14- 1				Peak Date: September 11- 1				Peak Date: August 30- 10				

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	0.07	0.86	0.00	0.00	0.00	0.86	0.00	0.23
# Days Observed	1	2	0	0	0	2	0	5
	First Date: April 27- 1		Last Date: June 1- 4			Peak Date: April 30, June 1- 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	0.00	0.00	0.29	0.29	0.00	0.43	0.14	0.00	0.29	0.14	0.00	0.00	0.14
# Days Observed	0	0	2	2	0	2	1	0	2	1	0	0	10
	First Date: July 26- 1				Peak Date: September 13- 1				Peak Date: August 16- 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	0.07	0.00	0.00	0.00	0.14	0.14	0.00	0.05
# Days Observed	1	0	0	0	1	1	0	3
	First Date: April 24- 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	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.04
# Days Observed	2	0	0	0	0	0	0	0	1	0	0	0	3
	First Date: July 13- 1				Peak Date: September 6- 1				Peak Date: All Dates- 1				

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	1.80	1.71	2.14	1.29	1.14	1.14	1.00	1.51
# Days Observed	15	7	6	6	7	5	5	51
	First Date: April 15- 2		Last Date: June 10- 1			Peak Date: April 18, May 9- 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	1.00	1.71	1.71	2.00	2.00	2.00	1.86	1.86	2.00	1.43	1.29	1.67	1.69
# Days Observed	6	6	7	7	7	6	5	7	7	6	7	3	74
	First Date: July 12- 1				Peak Date: September 29- 1				Peak Date: 3 Dates- 4				

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	2.13	2.71	1.86	1.00	1.29	0.14	0.14	1.44
# Days Observed	12	6	6	4	3	1	1	33
	First Date: April 15- 1		Last Date: June 4- 1			Peak Date: April 18- 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	0.00	0.00	0.00	1.14	0.57	0.86	1.71	0.86	0.86	0.57	0.57	0.67	0.64
# Days Observed	0	0	0	2	2	3	4	3	2	4	3	1	24
	First Date: August 5- 1				Peak Date: September 29- 2				Peak Date: August 6- 7				

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	0.40	0.14	1.00	1.14	0.71	0.43	0.29	0.56
# Days Observed	4	1	5	5	3	2	2	22
# Processed	0	0	1	2	0-1-0	1	0	4-1-0
	First Date: April 18- 2		Last Date: June 9- 1			Peak Date: May 15- 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	0.14	0.29	4.29	9.57	9.14	17.57	6.86	4.14	4.57	0.86	0.67	5.01
# Days Observed	2	1	2	7	7	7	7	7	4	5	3	2	54
# Processed	0	0	1	1	10	6	13	7	3	4-0-1	3	0	48-0-1
	First Date: July 14- 1				Peak Date: September 29- 1				Peak Date: August 26- 47				

Cooper's Hawk (*Accipiter cooperii*)

	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	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
# Days Observed	0	0	0	0	1	0	0	0	0	0	0	0	1
	First Date: August 15- 1				Peak Date: August 15- 1				Peak Date: August 15- 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	0.00	0.00	0.29	0.00	0.00	0.14	0.00	0.05
# Days Observed	0	0	2	0	0	1	0	3
	First Date: May 7- 1		Last Date: June 1- 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	0.00	0.00	0.00	0.00	0.00	0.14	0.43	0.00	0.00	0.00	0.00	0.00	0.05
# Days Observed	0	0	0	0	0	1	3	0	0	0	0	0	4
	First Date: August 18- 1				Peak Date: August 29- 1				Peak Date: All Dates- 1				

Broad-winged Hawk (*Buteo platypterus)*

	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	0.00	0.00	0.00	0.00	0.14	5.00	0.71	1.00	0.14	0.00	0.00	0.00	0.60
# Days Observed	0	0	0	0	1	2	5	3	1	0	0	0	12
	First Date: August 10- 1				Peak Date: September 6- 1				Peak Date: August 21- 34				

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	0.27	0.14	0.14	0.00	0.00	0.14	0.14	0.14
# Days Observed	3	1	1	0	0	1	1	7
	First Date: April 18- 2		Last Date: June 5- 1			Peak Date: April 18- 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	0.00	0.00	0.00	0.14	0.14	0.00	0.14	0.43	0.14	0.29	0.00	0.00	0.11
# Days Observed	0	0	0	1	1	0	1	2	1	2	0	0	8
	First Date: August 4- 1				Peak Date: September 19- 1				Peak Date: September 5- 2				

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	0.13	0.00	0.14	0.00	0.00	0.00	0.00	0.05
# Days Observed	1	0	1	0	0	0	0	2
	First Date: April 18- 2		Last Date: May 8- 1			Peak Date: April 18- 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	9.73	3.00	0.00	0.00	0.43	0.00	0.00	2.98
# Days Observed	2	2	0	0	1	0	0	5
	First Date: April 27- 137		Last Date: May 23- 3			Peak Date: April 27- 137		

	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.14	20.14	0.00	0.00	2.36
# Days Observed	0	0	0	0	0	0	0	0	1	2	0	0	3
	First Date: September 12- 50				Peak Date: September 15- 66				Peak Date: September 13- 75				

American Golden-plover (*Pluvialis dominica*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Total
Mean # Birds/Day	0.00	0.00	0.00	0.00	2.14	0.00	0.00	0.26
# Days Observed	0	0	0	0	1	0	0	1
	First Date: May 25- 15		Last Date: May 25- 15			Peak Date: May 25- 15		

Semipalmated Plover (*Charadrius semipalmatus*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Total
Mean # Birds/Day	0.00	0.00	0.00	1.14	0.00	0.00	0.00	0.14
# Days Observed	0	0	0	1	0	0	0	1
	First Date: May 19- 8		Last Date: May 19- 8			Peak Date: May 19- 8		

Semipalmated Plover (*Charadrius semipalmatus*)

	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	0.00	0.00	0.00	0.86	3.29	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.62
# Days Observed	0	0	0	2	3	0	0	0	1	0	0	0	6
	First Date: August 5- 1				Peak Date: September 6- 21				Peak Date: September 6- 21				

Killdeer (*Charadrius vociferous*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Total
Mean # Birds/Day	0.33	0.14	0.29	1.29	0.43	0.14	0.00	0.37
# Days Observed	5	1	2	6	3	1	0	18
	First Date: April 17- 1		Last Date: May 31- 1			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	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
# Days Observed	2	0	0	0	0	0	0	0	0	0	0	0	2
	First Date: July 12- 1				Peak Date: July 14- 1				Peak Date: All Dates- 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	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.02
# Days Observed	0	0	0	1	0	0	0	1
	First Date: May 19- 1		Last Date: May 19- 1			Peak Date: May 19- 1		

Long-billed Dowitcher (*Limnodromus scolopaceus*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0.00	0.14	0.00	5.71	0.00	0.00	0.00	0.72
# Days Observed	0	1	0	1	0	0	0	2
	First Date: May 1- 1		Last Date: May 16- 40			Peak Date: May 16- 40		

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	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.05
# Days Observed	3	0	0	0	0	0	0	3
	First Date: April 17- 1		Last Date: April 26- 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	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.01
# Days Observed	0	0	0	0	0	0	1	0	0	0	0	0	1
	First Date: August 29- 1				Peak Date: August 29- 1				Peak Date: August 29- 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	0.07	1.43	4.43	1.43	1.86	2.43	1.86	1.67
# Days Observed	1	6	6	3	6	7	7	36
	First Date: April 29- 1		Last Date: June 10- 2			Peak Date: May 9- 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	1.14	0.29	0.57	3.43	1.57	1.43	0.57	0.00	0.14	0.00	0.00	0.00	0.79
# Days Observed	4	2	3	6	5	5	3	0	1	0	0	0	29
	First Date: July 15- 2				Peak Date: September 12- 1				Peak Date: August 4- 13				

Solitary Sandpiper (*Tringa solitaria*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0.00	0.00	0.57	0.29	0.00	0.00	0.00	0.11
# Days Observed	0	0	2	1	0	0	0	3
	First Date: May 8- 1		Last Date: May 17- 2			Peak Date: May 9- 3		

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	1.40	2.57	1.00	1.14	0.43	0.29	0.00	1.04
# Days Observed	11	5	5	6	2	2	0	31
	First Date: April 16- 1		Last Date: June 2- 1			Peak Date: May 1- 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	0.00	0.00	0.29	0.71	0.71	0.00	0.14	0.00	0.00	0.00	0.14	0.00	0.17
# Days Observed	0	0	2	2	2	0	1	0	0	0	1	0	8
	First Date: July 31- 1				Peak Date: September 21- 1				Peak Date: August 8- 4				

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	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.02
# Days Observed	0	0	1	0	0	0	0	1
	First Date: May 10- 1		Last Date: May 10- 1			Peak Date: May 10- 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	0.00	0.00	0.00	0.00	0.43	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.05
# Days Observed	0	0	0	0	1	1	0	0	0	0	0	0	2
	First Date: August 15- 3				Peak Date: August 22- 1				Peak Date: August 15- 3				

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

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	0.53	0.00	1.29	0.00	1.57	0.57	0.00	0.56
# Days Observed	1	0	2	0	1	1	0	5
	First Date: April 28- 8		Last Date: May 28- 4			Peak Date: May 27- 11		

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	6.80	95.29	119.00	56.29	34.86	17.29	1.43	41.60
# Days Observed	3	7	7	7	5	5	1	35
	First Date: April 26- 6		Last Date: June 4- 10			Peak Date: May 9- 301		

	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	0.00	172.14	84.00	193.86	180.71	97.29	0.00	0.00	157.14	26.00	0.00	0.00	78.74
# Days Observed	0	6	5	4	4	4	0	0	1	2	0	0	26
	First Date: July 19- 1				Peak Date: September 15- 162				Peak Date: September 10- 1100				

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	0.07	5.71	2.29	1.43	0.00	0.00	0.00	1.18
# Days Observed	1	4	2	1	0	0	0	8
	First Date: April 28- 1		Last Date: May 16- 10			Peak Date: May 1- 22		

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	2.93	0.29	0.71	0.00	4.57	0.86	0.71	1.65
# Days Observed	11	1	3	0	5	4	2	26
	First Date: April 15- 1		Last Date: June 5- 2			Peak Date: April 19- 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	1.57	33.00	55.29	27.43	49.00	16.00	5.14	9.86	62.14	17.14	2.43	1.67	24.17
# Days Observed	2	5	6	5	7	7	5	6	4	6	5	2	60
	First Date: July 13- 5				Peak Date: September 29- 2				Peak Date: September 10- 422				

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	3.60	0.71	0.71	0.29	0.14	0.14	0.00	1.19
# Days Observed	7	2	3	2	1	1	0	16
	First Date: April 17- 5		Last Date: May 28- 1			Peak Date: April 26- 18		

	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	0.00	0.00	0.86	0.29	0.14	0.00	0.14	1.14	0.43	0.43	0.14	0.33	0.32
# Days Observed	0	0	1	2	1	0	1	1	2	2	1	1	12
	First Date: August 1- 6				Peak Date: September 27- 1				Peak Date: September 2- 8				

Caspian Tern (*Hydroprogne caspia*)

	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.43	0.00	0.04
# Days Observed	0	0	0	0	0	0	0	0	0	0	2	0	2
	First Date: September 25- 2				Peak Date: September 26- 1				Peak Date: September 25- 2				

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	0.00	0.00	0.00	0.29	2.00	0.57	0.00	0.35
# Days Observed	0	0	0	2	3	4	0	9
	First Date: May 15- 1		Last Date: June 2- 1			Peak Date: May 23- 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	0.29	0.43	0.29	1.71	2.43	0.00	0.00	0.00	0.00	0.00	0.00	0.46
# Days Observed	1	2	2	1	4	3	0	0	0	0	0	0	13
	First Date: July 18- 1				Peak Date: August 22- 5				Peak Date: August 20- 11				

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	0.00	0.00	0.29	0.71	0.71	0.29	0.14	0.26
# Days Observed	0	0	2	3	3	2	1	11
	First Date: May 7- 1		Last Date: June 7- 1			Peak Date: May 19 & 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	0.14	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.04
# Days Observed	1	0	0	0	0	1	0	0	0	0	0	0	2
	First Date: July 15- 1				Peak Date: August 20- 2				Peak Date: August 20- 2				

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	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.02
# Days Observed	0	0	0	1	0	0	0	1
	First Date: May 18- 1		Last Date: May 18- 1			Peak Date: May 18- 1		

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	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.02
# Days Observed	0	1	0	0	0	0	0	1
	First Date: May 1- 1		Last Date: May 1- 1			Peak Date: May 1- 1		

Northern Saw-whet Owl (*Aegolius acadicus*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0.20	0.14	0.00	0.00	0.00	0.00	0.00	0.07
# Days Observed	3	1	0	0	0	0	0	4
	First Date: April 16- 1		Last Date: May 3- 1			Peak Date: All Dates- 1		

Common Nighthawk (*Chordeiles minor*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.02
# Days Observed	0	0	1	0	0	0	0	1
	First Date: May 10- 1		Last Date: May 10- 1			Peak Date: May 10- 1		

Note: usually only one individual encountered each year.

Ruby-throated Hummingbird (*Archilochus colubris*)

	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	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
# Days Observed	0	0	0	1	0	0	0	0	0	0	0	0	1
	First Date: August 2- 1				Peak Date: August 2- 1				Peak Date: August 2- 1				

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	0.07	0.14	0.43	0.14	0.14	0.29	0.00	0.16
# Days Observed	1	1	2	1	1	2	0	8
	First Date: April 27- 1		Last Date: June 2- 1			Peak Date: May 9- 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	0.00	0.00	0.00	0.29	0.29	0.29	0.71	0.43	0.14	0.14	0.00	0.00	0.20
# Days Observed	0	0	0	2	2	2	4	2	1	1	0	0	14
	First Date: August 5- 1				Peak Date: September 15- 1				Peak Date: August 23, September 1- 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	1.00	4.57	1.29	0.86	1.29	0.43	0.71	1.39
# Days Observed	3	7	6	4	5	3	4	32
# Processed	0	2	1	0	1	0	1	5
	First Date: April 27- 3		Last Date: June 10- 1			Peak Date: May 2 & 3- 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	0.29	0.14	0.14	0.00	0.14	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.07
# Days Observed	2	1	1	0	1	1	0	0	0	0	0	0	6
# Processed	0-0-1	1	0	0	0	0	0	0	0	0	0	0	1-0-1
	First Date: July 15- 1				Peak Date: August 19- 1				Peak Date: All Dates- 1				

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	0.00	0.14	0.00	0.00	0.00	0.00	0.14	0.04
# Days Observed	0	1	0	0	0	0	1	2
# Processed	0	0	0	0	0	0	1	1
	First Date: April 30- 1		Last Date: June 8- 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	0.29	0.57	0.29	0.14	0.14	0.00	0.00	0.29	0.29	0.00	0.29	0.67	0.22
# Days Observed	2	4	2	1	1	0	0	1	2	0	2	1	16
# Processed	1-0-1	2	0-0-1	0	1	0	0	0	0	0	1	1	6-0-2
	First Date: July 17- 1				Peak Date: September 28- 2				Peak Date: September 5 & 28- 2				

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	0.07	0.29	0.14	0.14	0.00	0.14	0.00	0.11
# Days Observed	1	2	1	1	0	1	0	6
	First Date: April 27- 1		Last Date: May 28- 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	1.71	2.14	2.14	1.43	1.00	0.29	0.29	0.29	0.43	0.86	0.29	0.67	0.96
# Days Observed	6	7	6	4	3	2	2	2	2	4	2	2	42
# Processed	4-0-2	5-0-2	3-0-5	0-0-2	0	0	0	0	0	0	1-0-1	0-0-1	13-0-13
	First Date: July 12- 2			Peak Date: September 29- 1				Peak Date: 3 Dates- 5					

Black-backed Woodpecker (*Picoides arcticus*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.02
# Days Observed	0	0	0	1	0	0	0	1
	First Date: May 16- 1		Last Date: May 16- 1			Peak Date: May 16- 1		

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	8.13	5.86	0.86	0.43	1.00	1.14	1.14	3.42
# Days Observed	5	6	4	3	5	6	7	36
# Processed	0	0	0	0	1	0	0	1
	First Date: April 25- 1		Last Date: June 10- 1			Peak Date: April 28- 90		

	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	0.00	0.43	0.14	0.43	0.29	0.00	0.29	0.29	0.71	0.00	0.00	0.00	0.22
# Days Observed	0	2	1	3	2	0	2	2	1	0	0	0	13
	First Date: July 19- 2			Peak Date: September 6- 5				Peak Date: September 6- 5					

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	0.47	0.57	0.43	0.57	0.43	0.43	0.43	0.47
# Days Observed	6	3	3	3	3	3	3	24
	First Date: April 17- 1		Last Date: June 8- 1			Peak Date: 3 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	0.00	0.14	0.14	0.00	0.00	0.43	0.14	0.71	0.14	0.14	0.43	0.00	0.20
# Days Observed	0	1	1	0	0	2	1	4	1	1	3	0	14
	First Date: July 19- 1			Peak Date: September 26- 1				Peak Date: August 20 & 30- 2					

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	0.00	0.00	0.43	0.14	0.00	0.00	0.00	0.07
# Days Observed	0	0	2	1	0	0	0	3
	First Date: May 8- 1		Last Date: May 16- 1			Peak Date: May 9- 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	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.14	0.00	0.00	0.00	0.04
# Days Observed	0	0	0	0	0	0	2	0	1	0	0	0	3
	First Date: August 26- 1			Peak Date: September 7- 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	0.07	0.57	1.43	0.57	0.29	0.00	0.00	0.37
# Days Observed	1	4	6	3	2	0	0	16
	First Date: April 26- 1		Last Date: May 23- 1			Peak Date: May 9 & 10- 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	0.00	0.00	0.43	0.57	1.00	0.71	0.86	0.29	0.43	0.43	0.29	0.00	0.43
# Days Observed	0	0	3	3	3	2	5	2	3	3	1	0	25
	First Date: July 27- 1				Peak Date: September 23- 2				Peak Date: August 10 & 20- 3				

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	0.00	0.14	0.29	0.00	0.43	0.00	0.00	0.11
# Days Observed	0	1	1	0	2	0	0	4
	First Date: May 2- 1		Last Date: May 23- 2			Peak Date: May 9 & 23- 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.01
# Days Observed	0	0	0	0	0	0	0	0	1	0	0	0	1
	First Date: September 9- 1				Peak Date: September 9- 1				Peak Date: September 9- 1				

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	0.00	0.00	0.00	0.29	0.14	0.29	1.00	0.21
# Days Observed	0	0	0	2	1	2	6	11
	First Date: May 18- 1		Last Date: June 9- 1			Peak Date: June 8- 2		

Yellow-bellied Flycatcher (*Empidonax flaviventris*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.02
# Days Observed	0	0	0	0	0	1	0	1
# Processed								
	First Date: May 30- 1		Last Date: May 30- 1			Peak Date: May 30- 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	0.00	0.00	0.00	0.00	0.57	2.71	5.43	1.07
# Days Observed	0	0	0	0	2	6	7	15
# Processed	0	0	0	0	3	7	19	29
	First Date: May 25- 2		Last Date: June 10- 4			Peak Date: June 8- 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	1.86	0.43	1.14	2.29	1.86	1.14	2.29	0.00	0.14	0.00	0.00	0.00	0.96
# Days Observed	5	2	5	5	4	5	2	0	1	0	0	0	29
# Processed	5	2	0	12	13	8	13	0	1	0	0	0	54
	First Date: July 12- 1				Peak Date: September 7- 1				Peak Date: August 23- 14				

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	0.00	0.00	0.14	5.71	5.43	3.57	2.00	2.07
# Days Observed	0	0	1	7	7	6	7	28
# Processed	0	0	0	3	6	5	1	15
	First Date: May 12- 1		Last Date: June 10- 2			Peak Date: May 18- 13		

Least Flycatcher (*Empidonax minimus*)

	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	1.71	4.14	1.86	0.57	0.43	0.29	0.14	0.00	0.00	0.00	1.09
# Days Observed	5	5	6	6	6	2	2	1	1	0	0	0	34
# Processed	3	4	1	11	3	1	1	1	0	0	0	0	25
	First Date: July 14- 2				Peak Date: September 6- 1				Peak Date: August 4- 8				

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	1.00	2.29	1.71	0.86	1.14	1.43	1.29	1.33
# Days Observed	8	7	7	6	7	6	7	48
# Processed	2-1-0	1-1-0	0	0	0	0	0	3-2-0
	First Date: April 22- 2		Last Date: June 10- 1			Peak Date: 5 Dates- 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	1.29	1.29	2.14	2.57	0.14	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.77
# Days Observed	5	6	7	7	1	4	0	0	0	0	0	0	30
# Processed	1	0-0-1	0	4-0-1	0	1	0	0	0	0	0	0	6-0-2
	First Date: July 13- 2				Peak Date: August 19- 2				Peak Date: July 26, August 3- 5				

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	0.00	0.29	0.14	0.71	0.14	0.00	0.00	0.16
# Days Observed	0	2	1	2	1	0	0	6
	First Date: May 4- 1		Last Date: May 23- 1			Peak Date: 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	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.01
# Days Observed	0	0	0	0	0	1	0	0	0	0	0	0	1
	First Date: August 18- 1				Peak Date: August 18- 1				Peak Date: August 18- 1				

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	0.00	0.00	0.00	0.00	1.14	0.86	0.71	0.33
# Days Observed	0	0	0	0	3	3	3	9
	First Date: May 23- 6		Last Date: June 6- 1			Peak Date: May 23- 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	0.00	0.00	0.00	2.00	2.29	2.86	1.29	0.29	0.00	0.00	0.00	0.00	0.75
# Days Observed	0	0	0	3	3	4	3	1	0	0	0	0	14
	First Date: August 6- 3				Peak Date: August 30- 2				Peak Date: August 20- 13				

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	0.00	0.00	0.00	0.71	0.71	0.00	0.00	0.18
# Days Observed	0	0	0	4	4	0	0	8
	First Date: May 16- 1		Last Date: May 24- 1			Peak Date: May 20, May 21- 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	0.29	0.29	0.14	0.14	0.29	0.14	0.00	0.43	0.00	0.00	0.00	0.00	0.15
# Days Observed	2	2	1	1	1	1	0	1	0	0	0	0	9
# Processed	2	0	0	1	1	0	0	2	0	0	0	0	6
	First Date: July 16- 1				Peak Date: September 2- 3				Peak Date: September 2- 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	0.00	0.00	0.14	0.29	0.43	0.00	0.29	0.14
# Days Observed	0	0	1	2	3	0	2	8
	First Date: May 11- 1		Last Date: June 7- 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	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
# Days Observed	0	0	0	1	0	0	0	0	0	0	0	0	1
# Processed	0	0	0	1	0	0	0	0	0	0	0	0	1
	First Date: August 2- 1				Peak Date: August 2- 1				Peak Date: August 2- 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	0.00	0.00	0.00	0.14	0.57	0.57	0.14	0.18
# Days Observed	0	0	0	1	4	4	1	10
	First Date: May 17- 1		Last Date: June 5- 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	0.29	0.14	0.43	0.00	0.14	0.00	0.14	0.00	0.14	0.00	0.00	0.00	0.11
# Days Observed	1	1	2	0	1	0	1	0	1	0	0	0	7
# Processed	1	1	2	0	0	0	0	0	1	0	0	0	5
	First Date: July 17- 2				Peak Date: September 12- 1				Peak Date: July 17 & 26- 2				

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	0.00	0.00	0.00	0.00	0.71	3.14	5.86	1.19
# Days Observed	0	0	0	0	3	7	7	17
# Processed	0	0	0	0	1	0	3	4
	First Date: May 25- 2		Last Date: June 10- 5			Peak Date: June 8- 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	7.57	5.29	4.14	4.00	2.57	1.71	0.29	0.14	0.43	0.00	0.00	0.00	2.26
# Days Observed	7	7	7	7	7	5	2	1	3	0	0	0	46
# Processed	13-1-1	2-0-2	2-0-1	3	0	0-0-1	0	1	1	0	0	0	22-1-5
	First Date: July 12- 4				Peak Date: September 11- 1				Peak Date: July 17- 12				

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	0.00	0.00	0.00	0.00	0.14	0.43	0.00	0.07
# Days Observed	0	0	0	0	1	1	0	2
	First Date: May 23- 1		Last Date: May 29- 3			Peak Date: May 29- 3		

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	0.13	1.86	1.29	0.86	1.00	0.86	0.57	0.82
# Days Observed	1	6	5	6	4	6	3	31
	First Date: April 24- 2		Last Date: June 8- 1			Peak Date: May 6- 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	0.00	0.00	0.29	2.43	1.86	0.86	1.00	0.57	0.57	0.14	0.00	0.00	0.67
# Days Observed	0	0	2	7	6	3	5	3	3	1	0	0	30
	First Date: July 29- 1				Peak Date: September 15- 1				Peak Date: August 14- 5				

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	0.87	0.29	0.00	0.14	0.29	0.14	0.57	0.40
# Days Observed	8	2	0	1	2	1	1	15
	First Date: April 15- 1		Last Date: June 5- 4			Peak Date: April 27, May 5- 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.86	0.67	0.15
# Days Observed	0	0	0	0	0	0	0	0	0	2	4	2	8
	First Date: September 15- 2				Peak Date: September 29- 1				Peak Date: 4 Dates- 2				

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	3.60	4.71	4.86	4.57	4.00	3.71	4.29	4.16
# Days Observed	15	7	7	7	7	7	7	57
	First Date: April 15- 5		Last Date: June 10- 2			Peak Date: June 1- 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	5.86	6.43	6.57	12.29	7.29	9.43	5.29	0.43	0.29	4.86	0.43	0.00	5.11
# Days Observed	7	7	7	7	7	7	6	3	1	3	1	0	56
	First Date: July 12- 6				Peak Date: September 26- 3				Peak Date: August 4- 51				

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	0.87	0.86	1.29	0.57	0.57	0.00	0.14	0.65
# Days Observed	7	5	4	4	2	0	1	23
	First Date: April 15- 4		Last Date: June 7- 1			Peak Date: 3 Dates- 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	1.86	1.57	2.43	3.86	4.29	4.29	2.86	4.86	4.00	5.86	3.00	3.28
# Days Observed	2	6	5	7	7	7	7	7	7	7	7	3	72
	First Date: July 13- 4				Peak Date: September 29- 2				Peak Date: September 20- 17				

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	0.00	0.00	0.00	0.00	1.57	0.00	0.00	0.19
# Days Observed	0	0	0	0	2	0	0	2
	First Date: May 22- 4		Last Date: May 23- 7			Peak Date: May 23- 7		

Purple Martin (*Progne subis*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.25
# Days Observed	0	0	0	3	0	0	0	3
	First Date: May 17- 1		Last Date: May 19- 1			Peak Date: May 18- 12		

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	0.07	0.57	28.00	2.71	7.86	0.71	1.00	5.04
# Days Observed	1	4	6	4	5	3	4	27
	First Date: April 28- 1		Last Date: June 10- 1			Peak Date: May 10- 84		

	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	0.00	1.29	4.29	16.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.11
# Days Observed	2	0	2	4	2	0	0	0	0	0	0	0	10
	First Date: July 12- 2				Peak Date: August 10- 5				Peak Date: August 9- 113				

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	0.00	0.00	0.00	7.71	19.43	0.00	0.00	3.33
# Days Observed	0	0	0	1	4	0	0	5
	First Date: May 18- 54		Last Date: May 27- 4			Peak Date: May 23- 118		

	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	0.00	0.00	4.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54
# Days Observed	1	1	0	0	3	0	0	0	0	0	0	0	5
	First Date: July 18- 9				Peak Date: August 14- 1				Peak Date: August 10- 30				

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	0.00	0.00	0.00	2.00	1.43	0.00	0.00	0.42
# Days Observed	0	0	0	2	1	0	0	3
	First Date: May 17- 4		Last Date: May 23- 10			Peak Date: May 18 & 23- 10		

Barn Swallow (*Hirundo rustica*)

	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	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
# Days Observed	0	0	0	0	1	0	0	0	0	0	0	0	1
	First Date: August 10- 1				Peak Date: August 10- 1				Peak Date: August 10- 1				

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	3.33	3.29	3.29	3.00	1.86	1.57	0.29	2.51
# Days Observed	15	7	7	7	6	6	2	50
# Processed	4-4-1	1	0-0-1	0-0-2	0	0	0	5-4-4
	First Date: April 15- 5		Last Date: June 10- 1			Peak Date: 3 Dates- 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	7.14	4.29	5.57	6.57	4.57	5.29	3.86	7.86	10.14	12.14	19.57	26.33	8.49
# Days Observed	7	7	7	7	6	6	6	5	5	7	6	2	71
# Processed	5	0	3	0	3	1	0-1-3	0	0-0-2	8-0-1	21-0-18	20-0-3	61-1-27
	First Date: July 12- 6				Peak Date: September 29- 30				Peak Date: September 28- 49				

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	0.00	0.00	0.00	0.00	0.14	0.00	0.14	0.14	0.57	0.14	1.57	0.67	0.26
# Days Observed	0	0	0	0	1	0	1	1	2	1	3	2	11
# Processed	0	0	0	0	0	0	0	0	0	0	4-0-1	0	4-0-1
	First Date: August 14- 1				Peak Date: September 29- 1				Peak Date: September 26- 8				

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	1.33	1.29	0.71	0.71	1.14	0.86	0.29	0.96
# Days Observed	14	7	4	5	7	6	2	45
# Processed	4	0	0	0	0	0	0	4
	First Date: April 15- 2		Last Date: June 6- 1			Peak Date: April 29- 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	0.71	0.29	0.86	1.57	1.00	0.71	0.43	1.71	1.71	1.14	1.43	1.33	1.05
# Days Observed	3	2	6	7	4	3	3	4	4	3	3	2	44
# Processed	0	0	0	1	0	0	0	1	0	0	1	0	3
	First Date: July 14- 1				Peak Date: September 29- 1				Peak Date: September 6- 9				

White-breasted Nuthatch (*Sitta carolinensi*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.04
# Days Observed	2	0	0	0	0	0	0	2
	First Date: April 16- 1		Last Date: April 27- 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
# Days Observed	1	0	0	0	0	0	0	0	0	0	0	0	1
	First Date: July 15- 1				Peak Date: July 15- 1				Peak Date: July 15- 1				

Brown Creeper (*Certhia americana*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0.07	0.29	0.29	0.00	0.00	0.00	0.00	0.09
# Days Observed	1	2	2	0	0	0	0	5
	First Date: April 18- 1		Last Date: May 11- 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	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.14	0.43	0.14	0.29	0.00	0.11
# Days Observed	0	0	0	0	0	0	2	1	2	1	1	0	7
# Processed	0	0	0	0	0	0	0	0	0	1	1	0	2
	First Date: August 24- 1				Peak Date: September 25- 2				Peak Date: September 6 & 25- 2				

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	0.00	0.00	0.00	0.00	0.86	0.43	0.00	0.16
# Days Observed	0	0	0	0	1	3	0	4
# Processed	0	0	0	0	3	2	0	5
	First Date: May 25- 6		Last Date: June 2- 1			Peak Date: May 25- 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	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.04
# Days Observed	2	0	0	0	0	0	0	0	0	1	0	0	3
	First Date: July 17- 1				Peak Date: September 13- 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	0.27	0.71	0.14	0.43	0.43	0.14	0.57	0.37
# Days Observed	4	4	1	3	3	1	4	20
	First Date: April 23- 1		Last Date: June 9- 1			Peak Date: April 30- 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	0.07	0.14	0.00	0.00	0.00	0.00	0.00	0.04
# Days Observed	1	1	0	0	0	0	0	2
	First Date: April 23- 1		Last Date: May 1- 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	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.43	0.71	3.00	2.00	0.44
# Days Observed	0	0	0	1	0	0	0	0	2	3	4	2	12
# Processed	0	0	0	1	0	0	0	0	1	0	5-0-1	1	8-0-1
	First Date: August 6- 1				Peak Date: September 29- 3				Peak Date: September 25- 9				

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	1.27	1.71	0.43	0.14	0.14	0.00	0.00	0.63
# Days Observed	5	5	3	1	1	0	0	15
# Processed	9	3	0	0	0	0	0	12
	First Date: April 22- 1		Last Date: May 26- 1			Peak Date: April 29- 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	0.00	0.00	0.00	0.29	0.29	0.00	0.29	1.57	1.86	1.29	1.86	0.67	0.67
# Days Observed	0	0	0	2	2	0	2	4	5	6	5	2	28
# Processed	0	0	0	1	0	0	0	1	0	2	5	0	9
	First Date: August 6- 1				Peak Date: September 29- 1				Peak Date: 3 Dates- 5				

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	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.05
# Days Observed	2	0	0	0	0	0	0	2
	First Date: April 19- 1		Last Date: April 20- 2			Peak Date: April 20- 2		

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	0.00	0.00	0.14	0.29	1.57	0.00	0.00	0.25
# Days Observed	0	0	1	2	2	0	0	5
# Processed	0	0	1	1	11	0	0	13
	First Date: May 13- 1		Last Date: May 22- 8			Peak Date: May 22- 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.01
# 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- 1				Peak Date: September 5- 1				Peak Date: September 5- 1				

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	0.00	0.00	0.86	3.00	12.14	3.29	3.00	2.74
# Days Observed	0	0	4	6	7	5	7	29
# Processed	0	0	5	4	49	15	5	78
	First Date: May 10- 1		Last Date: June 10- 1			Peak Date: May 22- 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	6.71	5.71	6.29	9.86	5.00	5.00	11.86	5.57	4.00	1.71	0.00	0.00	5.33
# Days Observed	7	7	7	7	7	7	7	6	6	2	0	0	63
# Processed	30-0-2	20-0-9	25-0-5	31-0-19	15-0-6	15-0-3	50-0-3	28-0-1	15-0-5	8	0	0	237-0-53
	First Date: July 12- 8				Peak Date: September 14- 4				Peak Date: August 23- 30				

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	0.13	3.43	0.43	0.14	0.43	0.14	0.00	0.60
# Days Observed	2	7	3	1	3	1	0	17
# Processed	0	6	2	1	3	1	0	13
	First Date: April 25- 1		Last Date: June 2- 1			Peak Date: May 4- 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	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.14	0.14	0.57	0.00	0.09
# Days Observed	0	0	1	0	0	0	0	0	1	1	2	0	5
# Processed	0	0	1	0	0	0	0	0	0	1	3	0	5
	First Date: July 29- 1				Peak Date: September 22- 1				Peak Date: September 20- 3				

American Robin (*Turdus migratorius)*

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	53.00	58.43	5.00	4.29	3.14	2.86	2.71	23.33
# Days Observed	14	7	7	7	7	7	7	56
# Processed	4-0-1	2	1	4	1	0	1-0-1	13-0-2
	First Date: April 15- 1		Last Date: June 10- 2			Peak Date: April 30- 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	1.43	0.57	2.14	3.00	1.14	0.86	0.71	1.29	1.57	1.43	1.43	0.00	1.35
# Days Observed	5	3	6	7	2	3	2	3	4	4	2	0	41
# Processed	2	1	0	0	1	1	0	1	2	1	0	0	9
	First Date: July 12- 1				Peak Date: September 26- 9				Peak Date: August 8, September 26- 9				

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	0.33	0.00	1.14	2.71	0.86	0.00	0.00	0.67
# Days Observed	2	0	2	3	2	0	0	9
	First Date: April 16- 1		Last Date: May 24- 5			Peak Date: May 18- 14		

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	4.53	44.71	49.43	11.86	1.14	0.00	0.00	14.35
# Days Observed	7	7	6	5	3	0	0	28
	First Date: April 16- 3		Last Date: May 23- 2			Peak Date: May 10- 157		

	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	0.00	0.00	0.00	0.00	0.00	0.14	2.71	2.71	33.14	22.14	2.86	0.00	5.51
# Days Observed	0	0	0	0	0	1	5	6	7	7	6	0	32
	First Date: August 20- 1				Peak Date: September 26- 10				Peak Date: September 15- 86				

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	0.00	0.00	0.00	0.00	0.43	7.71	153.57	19.86
# Days Observed	0	0	0	0	2	5	7	14
# Processed	0	0	0	0	0	0	2	2
	First Date: May 25- 2		Last Date: June 10- 149			Peak Date: June 6- 396		

	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	11.43	14.29	11.71	14.57	15.00	19.71	28.43	8.71	2.71	1.86	0.14	0.33	11.12
# Days Observed	7	7	7	7	7	6	5	5	5	4	1	1	62
# Processed	0	0	1	0	0	0	0	0	0	0	0	0	1
	First Date: July 12- 11				Peak Date: September 29- 1				Peak Date: August 29- 73				

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	1.47	10.57	5.14	0.14	0.57	0.00	0.00	2.40
# Days Observed	2	3	1	1	1	0	0	8
	First Date: April 16- 1		Last Date: May 22- 4			Peak Date: May 4- 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	0.00	0.00	0.00	0.00	0.00	0.00	0.29	1.71	4.57	6.00	0.43	0.33	1.14
# Days Observed	0	0	0	0	0	0	2	4	3	5	2	1	17
	First Date: August 23- 1				Peak Date: September 28- 1				Peak Date: September 15- 31				

Ovenbird (*Seiurus aurocapilla*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0.00	0.00	0.14	2.71	11.43	5.43	5.57	3.11
# Days Observed	0	0	1	7	7	7	7	29
# Processed	0	0	0	3	40-1-1	10-0-1	5-1-1	58-2-3
	First Date: May 13- 1		Last Date: June 10- 6			Peak Date: May 22- 27		

	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	6.14	2.29	4.86	9.71	2.57	0.57	0.57	0.29	0.29	0.00	0.00	0.00	2.36
# Days Observed	7	6	7	7	7	3	2	2	2	0	0	0	43
# Processed	33-0-2	12-0-2	16-0-11	44-0-11	15	4	3	2	2	0	0	0	131-0-26
	First Date: July 12- 5				Peak Date: September 9- 1				Peak Date: August 5- 19				

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	0.00	0.00	0.14	1.57	3.29	0.71	0.86	0.81
# Days Observed	0	0	1	6	7	5	5	24
# Processed	0	0	0	2	16	0	1	19
	First Date: May 13- 1		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	0.86	0.57	0.43	0.43	0.43	0.29	1.29	0.43	0.14	0.00	0.00	0.00	0.42
# Days Observed	5	3	3	3	3	2	4	2	1	0	0	0	26
# Processed	1	1	2	2	2	2	9	3	0-0-1	0	0	0	22-0-1
	First Date: July 12- 1				Peak Date: September 6- 1				Peak Date: August 23- 4				

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	0.00	0.14	1.29	4.86	7.29	4.57	4.43	2.77
# Days Observed	0	1	5	7	7	7	7	34
# Processed	0	1	1-1-0	9	16	2-1-4	4-1-4	33-3-8
	First Date: May 6- 1		Last Date: June 10- 3			Peak Date: May 25- 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	9.29	1.86	2.71	4.43	3.00	0.86	0.29	0.29	0.29	0.00	0.00	0.00	1.99
# Days Observed	7	5	6	7	4	2	1	2	2	0	0	0	36
# Processed	27-0-19	3-0-4	11	9-0-1	8-0-1	4	0	2	1	0	0	0	65-0-25
	First Date: July 12- 5				Peak Date: September 9- 1				Peak Date: July 18- 17				

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	0.00	0.00	0.14	10.86	38.43	2.29	0.29	6.39
# Days Observed	0	0	1	7	7	4	2	21
# Processed	0	0	0	0	1	5	0	6
	First Date: May 10- 1		Last Date: June 7- 1			Peak Date: May 22- 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	2.86	5.86	13.57	78.00	43.86	24.14	4.86	0.71	0.57	0.43	0.00	0.00	15.11
# Days Observed	4	3	7	7	7	6	3	4	3	2	0	0	46
# Processed	6	0-0-1	1	20	10	25	0	3	3	3	0	0	71-0-1
	First Date: July 14- 7				Peak Date: September 15- 2				Peak Date: August 8- 197				

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	0.07	8.43	1.71	0.43	0.43	0.14	0.00	1.39
# Days Observed	1	6	4	3	2	1	0	17
# Processed	0	2	1	1	1	1	0	6
	First Date: April 27- 1		Last Date: May 28- 1			Peak Date: May 4- 24		

Orange-crowned Warbler (*Oreothlypis celata*)

	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	0.00	0.00	0.00	0.00	0.00	1.86	3.57	3.00	30.14	10.71	4.86	0.00	4.68
# Days Observed	0	0	0	0	0	3	5	4	5	6	6	0	29
# Processed	0	0	0	0	0	0	1	7	25	15	9	0	57
	First Date: August 20- 5				Peak Date: September 26- 12				Peak Date: September 12- 137				

Nashville Warbler (*Oreothlypis ruficapilla*)

	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.14	0.00	0.02
# Days Observed	0	0	0	0	0	0	0	0	0	1	1	0	2
# Processed	0	0	0	0	0	0	0	0	0	1	1	0	2
	First Date: September 13- 1				Peak Date: September 20- 1				Peak Date: All Dates- 1				

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	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.02
# Days Observed	0	0	0	0	0	0	1	1
# Processed	0	0	0	0	0	0	1	1
	First Date: June 5- 1		Last Date: June 5- 1			Peak Date: June 5- 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	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
# Days Observed	0	0	1	0	0	0	0	0	0	0	0	0	1
# Processed	0	0	1	0	0	0	0	0	0	0	0	0	1
	First Date: July 26- 1				Peak Date: July 26- 1				Peak Date: July 26- 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	0.00	0.00	0.00	0.00	0.86	3.71	5.57	1.25
# Days Observed	0	0	0	0	4	6	7	17
# Processed	0	0	0	0	4	13-1-1	13-1-5	30-2-6
	First Date: May 22- 1		Last Date: June 10- 3			Peak Date: June 7- 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	1.29	2.14	3.71	10.71	4.57	1.29	0.71	0.14	0.00	0.00	0.00	0.00	2.12
# Days Observed	5	7	5	7	6	5	3	1	0	0	0	0	39
# Processed	7-0-1	10-0-1	15-0-2	43-0-5	19-0-1	7-0-2	3	1	0	0	0	0	105-0-12
	First Date: July 12- 1				Peak Date: September 5- 1				Peak Date: August 4- 18				

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	0.00	0.00	0.00	0.43	2.71	2.71	2.43	1.02
# Days Observed	0	0	0	2	7	5	7	21
# Processed	0-0-1	0	0	1	7	8	4	20
	First Date: May 18- 2		Last Date: June 10- 2			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	2.71	1.57	2.00	2.00	1.14	1.14	1.00	0.00	0.57	0.57	0.00	0.00	1.10
# Days Observed	7	6	7	5	4	6	4	0	4	3	0	0	46
# Processed	2	1	3	3	7	3	4	0	2	1	0	0	26
	First Date: July 12- 4				Peak Date: September 17- 2				Peak Date: 5 Dates- 4				

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	0.00	0.00	0.00	1.71	17.71	6.86	7.86	4.19
# Days Observed	0	0	0	3	7	7	7	24
# Processed	0	0	0	1	8	17	5	31
	First Date: May 18- 2		Last Date: June 10- 7			Peak Date: May 24- 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	7.86	6.29	9.29	30.14	5.71	1.71	1.14	1.29	1.29	0.14	0.00	0.00	5.60
# Days Observed	7	7	7	7	5	4	4	3	2	1	0	0	47
# Processed	15-0-5	7-0-2	7-0-1	31-0-3	5	2	4	3	4	1	0	0	79-0-11
	First Date: July 12- 4				Peak Date: September 13- 1				Peak Date: August 5- 52				

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	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.02
# Days Observed	0	0	0	0	0	1	0	1
	First Date: May 28- 1		Last Date: May 28- 1			Peak Date: May 28- 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	0.00	0.00	0.00	0.57	0.14	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.07
# Days Observed	0	0	0	3	1	0	1	0	0	0	0	0	5
# Processed	0	0	0	4	0	0	0	0	0	0	0	0	4
	First Date: August 2- 1				Peak Date: August 23- 1				Peak Date: August 7- 2				

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	0.00	0.00	0.00	0.14	1.71	0.57	0.71	0.39
# Days Observed	0	0	0	1	5	3	5	14
# Processed	0	0	0	0	2	1	0	3
	First Date: May 18- 1		Last Date: June 9- 1			Peak Date: May 22- 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	0.00	0.71	2.14	2.00	0.00	0.29	0.86	0.43	0.14	0.00	0.00	0.63
# Days Observed	4	0	2	6	4	0	2	4	3	1	0	0	26
# Processed	1	0	3-0-1	7	3	0	1	3-0-1	3	0	0	0	21-0-2
	First Date: July 12- 1				Peak Date: September 13- 1				Peak Date: August 14- 6				

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	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.02
# Days Observed	0	0	0	0	1	0	0	1
	First Date: May 24- 1		Last Date: May 24- 1			Peak Date: May 24- 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	0.00	0.00	0.00	0.43	0.00	0.14	0.00	0.00	0.14	0.00	0.00	0.00	0.06
# Days Observed	0	0	0	3	0	1	0	0	1	0	0	0	5
# Processed	0	0	0	3	0	1	0	0	1	0	0	0	5
	First Date: August 2- 1				Peak Date: September 12- 1				Peak Date: All Dates- 1				

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	0.00	0.00	0.14	9.14	11.29	4.14	3.14	3.42
# Days Observed	0	0	1	7	7	7	7	29
# Processed	0	0	0	2	6	6	3	17
	First Date: May 13- 1		Last Date: June 10- 2			Peak Date: May 24- 23		

Yellow Warbler (*Setophaga petechia*)

	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	13.57	5.71	4.14	7.86	4.71	1.00	3.86	1.29	4.14	0.57	0.14	0.00	4.06
# Days Observed	7	6	6	7	5	3	6	4	4	2	1	0	51
# Processed	32-0-2	11-0-2	8	6-0-1	1	0	7	5	12	3	1	0	86-0-5
	First Date: July 12- 4				Peak Date: September 21- 1				Peak Date: July 17- 33				

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	0.00	0.00	0.00	0.57	0.29	0.14	0.00	0.12
# Days Observed	0	0	0	2	2	1	0	5
# Processed	0	0	0	0	0	1	0	1
	First Date: May 19- 3		Last Date: May 28- 1			Peak Date: May 19- 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	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.71	0.29	0.71	0.00	0.00	0.16
# Days Observed	0	0	0	1	0	0	0	3	2	2	0	0	8
# Processed	0	0	0	0	0	0	0	4	2	4	0	0	10
	First Date: August 3- 1				Peak Date: September 14- 2				Peak Date: September 4 & 13- 3				

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	0.00	0.00	0.71	0.71	1.00	0.00	0.00	0.30
# Days Observed	0	0	2	4	2	0	0	8
# Processed	0	0	0	0	1	0	0	1
	First Date: May 12- 2		Last Date: May 23- 3			Peak Date: May 22- 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	0.00	0.00	0.29	1.00	0.29	0.43	0.29	0.43	1.57	1.14	0.29	0.00	0.49
# Days Observed	0	0	1	3	2	3	1	3	5	4	1	0	23
# Processed	0	0	1	1	1	2	0	1	3	3	0	0	12
	First Date: July 26- 2				Peak Date: September 22- 2				Peak Date: September 11- 5				

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	5.33	177.14	98.00	422.29	163.14	3.29	2.00	107.74
# Days Observed	11	7	7	7	7	6	7	52
# Processed	2	18-1-0	10-1-1	100-0-1	6-1-2	2-1-0	0	138-4-4
	First Date: April 17- 3		Last Date: June 10- 1			Peak Date: May 17- 2157		

	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	26.71	13.14	29.71	307.14	200.29	180.00	305.71	211.71	916.43	688.86	29.14	5.67	251.59
# Days Observed	7	5	7	7	6	6	7	6	6	6	6	2	71
# Processed	27-0-3	2	7	36	22	29	42	128-0-1	338	465	30	0	1126-0-4
	First Date: July 12- 15				Peak Date: September 29- 13				Peak Date: September 12- 3965				

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	0.00	0.00	0.14	0.29	0.00	0.00	0.00	0.05
# Days Observed	0	0	1	1	0	0	0	2
	First Date: May 13- 1		Last Date: May 18- 2			Peak Date: May 18- 2		

Black-throated Green Warbler (*Setophaga virens*)

	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	0.29	0.00	0.43	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
# Days Observed	1	2	0	2	1	0	0	0	0	0	0	0	6
# Processed	1	0	0	1	1	0	0	0	0	0	0	0	3
	First Date: July 16- 1				Peak Date: August 13- 1				Peak Date: August 6- 2				

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	0.00	0.00	0.00	0.00	5.14	6.71	6.71	2.28
# Days Observed	0	0	0	0	7	7	7	21
# Processed	0	0	0	0	8	15-1-1	5-1-4	28-2-5
	First Date: May 21- 1		Last Date: June 10- 5			Peak Date: May 24 & 25- 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	3.86	3.29	8.14	13.43	3.14	0.71	0.29	0.00	0.00	0.00	0.00	0.00	2.84
# Days Observed	7	5	7	7	5	4	2	0	0	0	0	0	37
# Processed	11-1-1	6-0-3	17-0-1	36-0-6	7	3	1	0	0	0	0	0	81-1-11
	First Date: July 12- 3				Peak Date: August 24- 1				Peak Date: August 4- 21				

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	0.00	0.00	0.00	0.00	0.57	0.00	0.00	0.07
# Days Observed	0	0	0	0	2	0	0	2
# Processed	0	0	0	0	2	0	0	2
	First Date: May 22- 2		Last Date: May 23- 2			Peak Date: All 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	0.00	0.00	0.00	0.57	0.86	0.57	0.71	0.57	2.29	0.43	0.00	0.00	0.52
# Days Observed	0	0	0	3	5	2	5	2	5	3	0	0	25
# Processed	0	0	0	0	2	0	2	1	11	1	0	0	17
	First Date: August 3- 1				Peak Date: September 19- 1				Peak Date: September 6- 6				

American Tree Sparrow (*Spizelloides arborea*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	1.07	0.00	0.00	0.00	0.00	0.00	0.00	0.28
# Days Observed	4	0	0	0	0	0	0	4
# Processed	2	0	0	0	0	0	0	2
	First Date: April 15- 5		Last Date: April 21- 4			Peak Date: April 15- 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	3.71	3.71	3.67	0.79
# Days Observed	0	0	0	0	0	0	0	0	1	2	5	2	10
# Processed	0	0	0	0	0	0	0	0	0	4	4	3	11
	First Date: September 11- 1				Peak Date: September 29- 3				Peak Date: September 19- 23				

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	0.00	0.00	0.86	68.00	29.71	7.71	0.43	13.11
# Days Observed	0	0	2	7	7	6	2	24
# Processed	0	0	0	13	12	1	0	26
	First Date: May 7- 1		Last Date: June 8- 1			Peak Date: May 18- 329		

	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	1.71	0.00	2.43	0.71	0.00	0.29	0.14	0.00	0.14	0.00	0.00	0.77
# Days Observed	4	2	0	4	1	0	1	1	0	1	0	0	14
# Processed	4	1	0	1	0	0	0	1	0	0	0	0	7
	First Date: July 13- 1				Peak Date: September 13- 1				Peak Date: July 18- 20				

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	0.00	0.00	0.14	54.71	23.14	4.86	3.71	10.63
# Days Observed	0	0	1	5	7	7	7	27
# Processed	0	0	0	18	18	5	0	41
	First Date: May 12- 1		Last Date: June 10- 2			Peak Date: May 18- 286		

	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	0.00	0.00	0.71	0.86	0.57	1.00	0.14	0.43	0.43	0.00	0.00	0.41
# Days Observed	2	0	0	2	3	2	3	1	3	2	0	0	18
# Processed	0	0	0	1	1	1	0	0	1	1	0	0	5
	First Date: July 12- 2				Peak Date: September 14- 2				Peak Date: August 23- 5				

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	0.00	0.14	0.00	0.14	0.00	0.00	0.00	0.04
# Days Observed	0	1	0	1	0	0	0	2
	First Date: May 4- 1		Last Date: May 18- 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	0.13	4.29	1.43	0.14	0.00	0.00	0.00	0.75
# Days Observed	1	4	3	1	0	0	0	9
# Processed	0	7	2	0	0	0	0	9
	First Date: April 28- 2		Last Date: May 18- 1			Peak Date: May 4- 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	0.00	0.00	0.00	0.14	0.00	0.00	0.43	0.00	0.00	0.29	0.00	0.00	0.07
# Days Observed	0	0	0	1	0	0	2	0	0	1	0	0	4
# Processed	0	0	0	0	0	0	2	0	0	1	0	0	3
	First Date: August 7- 1				Peak Date: September 16- 2				Peak Date: August 28, September 16- 2				

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	0.00	0.00	0.00	0.14	0.14	0.00	0.00	0.04
# Days Observed	0	0	0	1	1	0	0	2
	First Date: May 18- 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	0.00	0.00	0.14	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.02
# Days Observed	0	0	1	0	0	0	1	0	0	0	0	0	2
	First Date: July 31- 1				Peak Date: August 23- 1				Peak Date: All Dates- 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	0.93	4.71	5.71	6.00	5.57	3.86	4.86	4.02
# Days Observed	11	7	7	7	7	7	7	53
# Processed	1	1	1	0-1-0	2-0-1	3-0-2	1-0-1	9-1-4
	First Date: April 16- 1		Last Date: June 10- 3			Peak Date: May 22 & 24- 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	5.00	2.29	1.43	2.14	3.00	0.00	0.29	0.43	0.43	0.00	0.00	0.00	1.30
# Days Observed	7	5	3	7	6	0	2	1	1	0	0	0	32
# Processed	4-0-1	1-0-1	0	2	0-0-2	0	0	1	0-0-1	0	0	0	8-0-5
	First Date: July 12- 5				Peak Date: September 6- 3				Peak Date: August 10- 10				

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	0.00	1.00	2.57	6.57	7.14	4.14	4.29	3.16
# Days Observed	0	5	6	7	7	7	7	39
# Processed	0	2	2-0-1	8-1-0	8-0-7	0-0-1	2-0-3	22-1-12
	First Date: April 30- 1		Last Date: June 10- 4			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	5.71	2.00	2.57	5.86	5.14	2.29	2.14	0.00	2.00	0.57	0.29	0.33	2.48
# Days Observed	7	5	6	7	7	6	5	0	5	3	2	1	54
# Processed	15-0-5	4	4-0-3	3	6-0-1	2-0-1	4-0-1	0	6	1	1	0	46-0-11
	First Date: July 12- 6				Peak Date: September 28- 1				Peak Date: August 7 & 8- 11				

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	0.00	0.00	0.00	0.00	0.71	0.00	0.00	0.09
# Days Observed	0	0	0	0	3	0	0	3
# Processed	0	0	0	0	4	0	0	4
	First Date: May 22- 2		Last Date: May 26- 1			Peak Date: May 22 & 24- 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	0.57	0.00	0.43	0.00	0.43	0.14	0.00	0.00	0.43	0.14	0.00	0.23
# Days Observed	3	3	0	2	0	2	1	0	0	3	1	0	15
# Processed	4	3-0-1	0	3	0	3	1	0	0	0	0	0	14-0-1
	First Date: July 12- 2				Peak Date: September 21- 1				Peak Date: 3 Dates- 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	0.00	6.57	9.14	13.29	22.71	12.29	11.14	9.23
# Days Observed	0	7	7	7	7	7	7	42
# Processed	0	7	8-0-2	20-1-4	57-0-6	14-1-7	5-0-4	111-2-23
	First Date: April 30- 2		Last Date: June 10- 10			Peak Date: May 25- 34		

	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	10.86	8.29	7.71	12.57	10.00	8.57	9.29	12.71	16.57	11.14	5.14	3.00	9.86
# Days Observed	7	7	7	7	7	7	7	7	7	7	7	3	80
# Processed	19-0-3	8-0-2	9-0-1	21-0-16	18-0-11	7-0-10	5-0-14	13-0-14	33-0-15	22-0-12	4-0-8	0-0-3	159-0-109
	First Date: July 12- 8				Peak Date: September 29- 4				Peak Date: September 6- 49				

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	0.00	1.29	0.14	0.00	0.00	0.00	0.00	0.18
# Days Observed	0	4	1	0	0	0	0	5
# Processed	0	1	0	0	0	0	0	1
	First Date: May 4- 4		Last Date: May 8- 1			Peak Date: May 4 & 5- 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	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.29	1.00	0.86	0.43	0.00	0.23
# Days Observed	0	0	0	0	0	0	1	1	4	2	2	0	10
# Processed	0	0	0	0	0	0	0	2	4	5	0	0	11
	First Date: August 28- 1				Peak Date: September 25- 2				Peak Date: 3 Dates- 3				

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

Oregon Junco (*Junco hyemalis oreganus*)

	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.01
# Days Observed	0	0	0	0	0	0	0	0	0	1	0	0	1
# Processed	0	0	0	0	0	0	0	0	0	1	0	0	1
	First Date: September 15- 1				Peak Date: September 15- 1				Peak Date: September 15- 1				

Slate-coloured Junco (*Junco hyemalis hyemalis*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	4.13	0.14	0.00	0.00	0.00	0.00	0.00	1.11
# Days Observed	11	1	0	0	0	0	0	12
# Processed	9	0	0	0	0	0	0	9
	First Date: April 16- 9		Last Date: April 30- 1			Peak Date: April 22- 21		

	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	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.14	8.57	40.43	15.86	2.67	5.77
# Days Observed	0	0	0	0	0	0	1	1	4	6	6	2	20
# Processed	0	0	0	0	0	0	0	1	6	32	16	0	55
	First Date: August 29- 4				Peak Date: September 29- 3				Peak Date: September 15- 72				

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	0.00	0.00	0.57	1.00	1.29	0.57	0.14	0.44
# Days Observed	0	0	3	6	4	3	1	17
	First Date: May 10- 1		Last Date: June 5- 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	2.86	1.86	1.71	3.43	1.57	1.00	0.71	0.14	0.00	0.00	0.00	0.00	1.15
# Days Observed	6	4	3	6	5	2	2	1	0	0	0	0	29
# Processed	9	3	0	0	1	2	0	1	0	0	0	0	16
	First Date: July 12- 6				Peak Date: September 5- 1				Peak Date: July 26, August 6- 8				

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	0.00	0.00	0.00	2.86	5.43	0.86	1.57	1.32
# Days Observed	0	0	0	5	7	4	6	22
# Processed	0	0	0	0	2	0	2	4
	First Date: May 16- 2		Last Date: June 9- 2			Peak Date: May 20- 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	1.57	0.71	0.29	0.86	1.29	0.43	0.43	0.14	0.00	0.00	0.00	0.00	0.49
# Days Observed	4	3	1	3	3	2	2	1	0	0	0	0	19
# Processed	1	0	0	1	0	1	1	0	0	0	0	0	4
	First Date: July 13- 3				Peak Date: September 4- 1				Peak Date: July 17, August 9- 4				

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	6.60	12.00	12.86	10.29	4.43	0.29	0.14	6.65
# Days Observed	7	7	7	6	5	2	1	35
	First Date: April 17- 7		Last Date: June 8- 1			Peak Date: April 20- 40		

	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	13.43	0.71	1.29	2.43	0.43	0.14	0.00	0.00	0.00	0.00	0.00	0.00	1.59
# Days Observed	6	2	1	3	1	1	0	0	0	0	0	0	14
	First Date: July 12- 20				Peak Date: August 19- 1				Peak Date: July 14- 40				

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	0.00	0.43	0.29	0.00	0.00	0.00	0.00	0.09
# Days Observed	0	1	1	0	0	0	0	2
	First Date: May 4- 3		Last Date: May 8- 2			Peak Date: May 4- 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	0.00	1.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10
# Days Observed	0	1	0	1	0	0	0	0	0	0	0	0	2
	First Date: July 25- 7				Peak Date: August 6- 1				Peak Date: July 25- 7				

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	1.07	4.71	1.00	1.29	1.57	0.14	0.00	1.35
# Days Observed	3	6	4	3	4	1	0	21
	First Date: April 16- 1		Last Date: May 29- 1			Peak Date: May 4- 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	0.00	1.57	0.14	0.57	0.29	0.57	0.43	0.00	0.14	0.00	0.00	0.00	0.32
# Days Observed	0	2	1	2	2	1	1	0	1	0	0	0	10
	First Date: July 22- 8				Peak Date: September 6- 1				Peak Date: July 22- 8				

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	0.00	0.14	0.86	11.29	3.71	3.29	1.43	2.54
# Days Observed	0	1	3	6	7	7	4	28
# Processed	0	0	0	0	1-0-1	2	0	3-0-1
	First Date: May 3- 1		Last Date: June 9- 1			Peak Date: May 17- 32		

	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	0.00	0.00	0.14	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
# Days Observed	1	0	0	1	2	0	0	0	0	0	0	0	4
	First Date: July 12- 4				Peak Date: August 13- 1				Peak Date: July 12- 4				

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	0.00	0.00	0.00	0.57	0.86	1.00	0.57	0.37
# Days Observed	0	0	0	4	3	4	3	14
	First Date: May 14- 1		Last Date: June 8- 1			Peak Date: May 26- 3		

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	1.07	7.43	0.43	0.14	0.00	0.14	0.14	1.30
# Days Observed	6	6	1	1	0	1	1	16
	First Date: April 17- 1		Last Date: June 6- 1			Peak Date: May 4- 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	1.57	0.43	2.14	3.43	10.71	3.00	3.57	0.00	0.14	0.14	0.00	0.00	2.17
# Days Observed	5	1	5	6	7	5	5	0	1	1	0	0	36
# Processed	0	0	0	1	3-0-1	2	0	0	0	0	0	0	6-0-1
	First Date: July 12- 1				Peak Date: September 14- 1				Peak Date: August 13- 32				

White-winged Crossbill (*Loxia leucoptera*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.07
# Days Observed	1	0	0	0	0	0	0	1
	First Date: April 20- 4		Last Date: April 20- 4			Peak Date: April 20- 4		

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	32.87	0.00	0.00	0.00	0.00	0.00	0.00	8.65
# Days Observed	11	0	0	0	0	0	0	11
	First Date: April 15- 10		Last Date: April 26- 1			Peak Date: April 16- 371		

Pine Siskin (*Spinus pinus*)

	APRIL	MAY					JUNE	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	**Total**
Mean # Birds/Day	10.13	1.14	0.00	13.71	9.43	3.29	11.00	7.40
# Days Observed	3	3	0	6	5	2	4	23
	First Date: April 18- 2		Last Date: June 7- 15			Peak Date: April 26- 138		

	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	13.14	5.43	35.00	20.71	14.86	2.57	2.14	3.86	2.86	12.00	5.14	28.33	11.22
# Days Observed	6	4	4	6	6	5	5	4	4	6	5	2	57
# Processed													
	First Date: July 12- 2			Peak Date: September 29- 35				Peak Date: July 28- 101					

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	0.00	0.00	0.00	0.14	0.29	1.71	0.57	0.33
# Days Observed	0	0	0	1	2	5	2	10
	First Date: May 14- 1		Last Date: June 6- 2			Peak Date: June 1- 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	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.29	0.00	0.00	0.05
# Days Observed	0	1	0	0	0	0	0	0	1	1	0	0	3
	First Date: July 19- 1			Peak Date: September 14- 2				Peak Date: September 14- 2					

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	1.60	2.71	2.71	1.71	2.86	0.43	0.86	1.81
# Days Observed	9	7	4	5	5	2	2	34
# Processed								
	First Date: April 16- 6		Last Date: June 7- 3			Peak Date: May 24- 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	0.00	0.00	1.14	4.29	0.14	0.14	0.14	0.29	0.29	0.14	0.29	0.33	0.60
# Days Observed	0	0	2	2	1	1	1	1	1	1	1	1	12
	First Date: July 26- 7			Peak Date: September 28- 1				Peak Date: August 8- 27					

Appendix II. Annual Banding Totals

Species	2016 Spring Migration	2016 MAPS	2016 Fall Migration	2016 Projects	2016 Total		Grand Total 1993- 2016
"Audubon's" Warbler							2
Alder Flycatcher	29		54		83		2025
American Goldfinch							1
American Kestrel							2
American Magpie							2
American Pipit							18
American Redstart	31	24	79		134		7237
American Robin	13	3	9	36	61		483
American Tree Sparrow	2		11		13		596
Baltimore Oriole							5
Bay-breasted Warbler			5		5		135
Barred Owl							4
Belted Kingfisher							1
Black-and-White Warbler	33	3	65		101		2089
Blackburnian Warbler							2
Black-capped Chickadee	5		61		66		1093
Blackpoll Warbler	1		10		11		352
Black-throated Green Warbler		1	3		4		128
Blue Jay		1					61
Blue-headed Vireo			6		6		85
Boreal Chickadee			4		4		30
Boreal Owl				7	7		9
Brown Creeper			2		2		62
Brown-headed Cowbird	3				3		9
Canada Warbler	28	22	81		131		3008
Cape May Warbler			4		4		153
Cedar Waxwing	2	4	1		7		185
Chestnut-sided Warbler							22
Chipping Sparrow	26	1	7		34		2031
Clay-colored Sparrow	41		5		46		1004
Common Grackle							6
Common Yellowthroat	20	4	26		50		726
Connecticut Warbler	1		1		2		28
Cooper's Hawk							3
Downy Woodpecker	1		6		7		83
Eastern Kingbird							1
Eastern Phoebe	3		6		9		165
Evening Grosbeak							2
Fox Sparrow							82
Golden-crowned Kinglet			8		8		86

Species	2016 Spring Migration	2016 MAPS	2016 Fall Migration	2016 Projects	2016 Total		Grand Total 1993- 2016
Gray Catbird							6
Gray Jay							3
Gray-cheeked Thrush	13		1		14		211
Hairy Woodpecker		1	13		14		71
Harris's Sparrow							6
Hermit Thrush	13		5		18		603
Hoary Redpoll							1
House Wren	5						37
Lapland Longspur							5
Lazuli Bunting							1
Le Conte's Sparrow							7
Least Flycatcher	15	3	25		43		2199
Lincoln's Sparrow	22	14	46		82		1022
Long-eared Owl							1
MacGillivray's Warbler							2
Magnolia Warbler	3	5	21		29		977
Marsh Wren							3
Mourning Warbler	30	36	105		171		1323
Nashville Warbler			2		2		8
Northern Flicker	1				1		40
Northern Goshawk							1
Northern Mockingbird							1
Northern Pygmy-Owl							2
Northern Saw-whet Owl				107	107		1340
Northern Shrike							2
Northern Waterthrush	19	1	22		42		791
Orange-crowned Warbler	6		57		63		1312
“Oregon” Junco			1		1		15
Olive-sided Flycatcher							2
Ovenbird	58	21	131		210		4347
Western Palm Warbler	1		12		13		279
Philadelphia Vireo			5		5		185
Pileated Woodpecker							8
Pine Siskin							165
Purple Finch		1	6		7		101
Red-breasted Nuthatch	4		3		7		133
Red-eyed Vireo	4	2	22		28		807
Red-winged Blackbird							7
Rose-breasted Grosbeak	4		4		8		332
Ruby-crowned Kinglet	12		9		21		408
Savannah Sparrow	9		3		12		212
Sharp-shinned Hawk	4		48		52		632
“Slate-colored” Junco	9		55		64		1752
Song Sparrow	9	2	8		19		346
Swainson's Thrush	78	20	237		335		6014

Species	2016 Spring Migration	2016 MAPS	2016 Fall Migration	2016 Projects	2016 Total		Grand Total 1993- 2016
Swamp Sparrow	4		14		18		224
Tennessee Warbler	6		71		77		5536
Three-toed Woodpecker							1
Townsend's Solitaire							3
Varied Thrush							6
Veery							8
Vesper Sparrow							3
Warbling Vireo			1		1		66
Western Tanager			16		16		219
Western Wood-Pewee							23
White-breasted Nuthatch							11
"Gambel's" White-crowned Sparrow	1		11		12		482
White-throated Sparrow	111	56	159		326		3293
White-winged Crossbill							1
Wilson's Warbler	2		17		19		537
Winter Wren		3			3		57
Yellow Warbler	17	11	86		114		3622
Yellow-bellied Flycatcher							76
Yellow-bellied Sapsucker	5	2	1		8		208
Yellow-rumped Warbler	138	11	1126		1275		12599
Total number of birds banded	**842**	**252**	**2797**	**150**	**4041**		**74712**
Total number of species banded	**45**	**25**	**56**	**3**	**63**		**105**