2012 Annual Report

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2012 Executive Summary

The Lesser Slave Lake Bird Observatory (LSLBO) conducted its 19th year of bird population monitoring in the Lesser Slave Lake Provincial Park in 2012. The three core monitoring projects are spring migration monitoring, fall migration monitoring, and Monitoring Avian Productivity and Survivorship (MAPS). In addition, the LSLBO was involved in several other research and monitoring projects which included; northern saw-whet owl fall migration monitoring, testing raised nets during migration to determine how vegetation change has impacted the effectiveness of the standard nets, feather collection for stable isotope analysis of migrants, and the Canada Warbler Project.

Daily migration monitoring is conducted at the LSLBO by combining four count techniques: daily census, visual migration counts, incidental observations, and mistnetting. These standardized techniques are used to derive a daily estimated total of migrants in the area, which is used to create population trends. Identical techniques are used during both the spring and fall migration seasons. Spring migration coverage lasted for 49 days from April 23 to June 10. Weather conditions allowed mistnets to be set for 84% of the possible net hours. A total of 1943 birds were banded, representing 47 species. It was the second busiest spring banding season at the LSLBO. Fall migration was conducted for 80 days from July 12 to September 29. Conditions allowed mistnets to be set for 84% of the total possible net hours. A total of 1588 birds from 56 species were banded; which was below the fall average.

A total of 166 species were encountered during migration monitoring; 153 in the spring and 127 in the fall. No new species were observed to add to the LSLBO's sighting list; keeping the all-time sightings list at 250 species. No new species were banded, keeping the LSLBO's species list at 102 birds.

MAPS monitors bird populations on the breeding grounds and the LSLBO currently operates four stations. Each station was visited six times between June 11 and August 2. A total of 167 birds from 22 species were banded during the MAPS banding. The breeding status for 64 species was determined during visits to MAPS stations.

The LSLBO recorded 298 recaptured birds during migration and MAPS bandings. All recaptures encountered were birds originally banded at the LSLBO either in the same season or in a previous year. The majority of the birds were banded in 2012 and recaptured later in the season. 41 birds were banded in 2011 and 32 birds were banded before 2011. The oldest bird encountered was an ovenbird captured during MAPS that was originally banded in 2005; this bird was at least eight years old.

Northern saw-whet owl fall migration monitoring began on August 29 and ended on October 10. Banding was attempted on 32 nights and 112 northern saw-whet owls and one barred owl were banded. Two saw-whets were later recovered east of Edmonton, Alberta several days after being banded at the LSLBO.

Two aerial nets were used during spring and fall migration. These raised nets were erected in 2010 to address concerns about changing vegetation affecting the capture rates in the standard netlanes. Overall the aerial nets accounted for approximately 30% of the birds banded during

migration monitoring. In the spring only one standard net had higher capture rate than the two aerial nets. In the fall, nets located on the shoreline, including standard and aerial nets had higher capture rates than the forest nets. The aerial net located in the forest had a lower capture rate than two of the forest standard nets. This was the first year that the aerial nets were used for an entire spring season.

The LSLBO participated in collecting feathers for stable isotope analysis to determine the timing of migration, an objective of the Joint Research Project between the University of Alberta, the LSLBO, and Alberta Parks. A total of 765 feathers were collected from four focal species (Swainson's thrush, Myrtle warbler, Tennessee warbler, and American redstart) during the year. Feathers were collected in the spring, fall, and during the breeding season. These feathers will be used to determine the origin of the birds and the timing of when birds with local isotope signatures move out of the area and migrants from other regions begin to migrate through.

The Canada Warbler Project was re-initiated in 2012 as a stand-alone, question-driven, research project. The goal of the study was to determine Canada warbler habitat use in the western boreal forest. The study involved tracking territorial males and habitat surveys within the Lesser Slave Lake Provincial Park.

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Migration Monitoring

Migration monitoring is a practice of monitoring bird populations from a fixed point. Observers combine data from a variety of survey techniques to estimate the number of migrants from each species that pass through the study area each day during spring and fall migration. These daily estimated totals are used to create annual population indices, which are then compared to previous year's to derive population trends. The Lesser Slave Lake Bird Observatory (LSLBO) has been conducting spring and fall migration monitoring since 1994; 2012 marks the 19th consecutive year of monitoring at the station. The LSLBO has been a full member of the Canadian Migration Monitoring Network (CMMN) since 1999. The CMMN coordinates migration monitoring activities across Canada and provides support and resources, including population trend analysis, to its member stations.

Migrants are constantly moving through the LSLBO during both spring and fall migration. Some manner of migratory activity is encountered almost every day. At times the passage can be light with only a few individuals observed, but a few days each season experiences a heavy migration with thousands of birds counted within a few hours. Definite peaks of migratory activity occur throughout the season and consist of large volumes of a single species or a number of species moving together in mixed flocks. Songbirds are the most commonly encountered migrant at the station, but at times good numbers of waterfowl, shorebirds, gulls, and raptors can be observed.

Migration monitoring at the LSLBO follows the standardized protocols described in the 2003 Revised Lesser Slave Lake Bird Observatory Station Manual. These protocols ensure that comparable data is collected each year, which is vital in deriving accurate population trends. The same monitoring techniques are used in both spring and fall migration. Although songbirds are the primary focus at the LSLBO,all species encountered during monitoring are recorded. Monitoring is conducted for a maximum of seven hours each day, beginning onehalf-hour before sunrise. A half-hour census is run once each day to document bird activity within the entire study site. A five minute visual migration count is conducted once every hourwhich 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 aerial nets for a maximum of 98 net hours each day for bird banding. Mistnetting 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.

Spring Migration

Spring migration monitoring is conducted over a period of approximately six weeks from late April until early June. This time period covers the migratory window of most species encountered at the LSLBO. The migration station opens late April, once daytime temperaturesare warm enough to allow for banding. By this time the early spring migrants have already begun to move through, but the diversity and volume varies depending on spring weather conditions. Migration intensity quickly increases in early May; the diversity of migrantspeciesrapidly increases in early May and heavy songbird migration can occur at any time during the month. Migration slowsduring the first week of June; most of the migrants have arrived and the majority of active birds are local breeders. Spring monitoring ends on June 10.

In 2012, spring migration began on April 23 and ran daily until June 10 for 49 days of coverage (Table 1). The census was conducted on all but one day. Observers aimed to run 8 visual migration counts each fair-weather day, and 6 on poor-weather days. Weather conditions did not permit any banding on 4 days and an additional 20 days received reduced net hours due to changing weather conditions throughout the day. Reduced net hours are common early in the spring because overnight temperatures drop below freezing and mistnetting is delayed a few hours in the morning until conditions warm up.

Table 1.Summary of effort during spring migration monitoring at LSLBO, 2004-2012.

Spring	2004	2005	2006	2007	2008	2009	2010	2011	2012
Coverage									
First Day	19-Apr	25-Apr	24-Apr	24-Apr	26-Apr	25-Apr	22-Apr	22-Apr	23-Apr
Last Day	10-Jun	10-Jun	10-Jun	10-Jun	10-Jun	10-Jun	10-Jun	15- May	10- June
Number of Days	50	43	47	48	45	46	50	24	49
Person Days	120	121	127	92	105	89	114	55	96
Banding									
First Day	20-Apr	25-Apr	24-Apr	24-Apr	27-Apr	29-Apr	22-Apr	22-Apr	23-Apr
Last Day	10-Jun	10-Jun	10-Jun	10-Jun	10-Jun	10-Jun	10-Jun	15-May	10-Jun
Number of Days	45	43	44	47	43	42	44	23	45
Av. Daily Net Hrs	60.5	71.2	70.3	73.6	75.8	70.4	64.4	81.8*	80.68*
Census									
First Day	20-Apr	25-Apr	24-Apr	24-Apr	26-Apr	25-Apr	22-Apr	22-Apr	23-Apr
Last Day	10-Jun	10-Jun	10-Jun	10-Jun	10-Jun	10-Jun	10-Jun	15-May	10-Jun
Number of Days	49	43	47	48	45	46	50	24	48
Vis-Mig									
First Day	20-Apr	25-Apr	24-Apr	24-Apr	26-Apr	25-Apr	22-Apr	22-Apr	23-Apr
Last Day	10-Jun	10-Jun	10-Jun	10-Jun	10-Jun	10-Jun	10-Jun	15-May	10-Jun
Number of Days	49	43	47	48	45	46	50	24	49
Av Daily Vis-Migs	8.2	8	7.7	7.9	7.8	7.7	7.6	7.8	7.5

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

Mistnets were set for a total of 3953.31 net hours; achieving 82% of the total possible 4802 net hours for the season. The twelve standard nets were set for 3453.78 net hours and the two aerial nets were set for 499.53 net hours; achieving 84% and 73% of the possible net coverage,respectively. A total of 1943 birds were banded and 72 birds were recaptured for a capture rate of 51 birds/100 net hours. This was the second highest spring banding total at the LSLBO and above the seasonal average of 953 birds. Banding peaked several times throughout the spring but the busiest period was between May 9 and May 21 (Figure 1). The busiest banding day was May 19 with 338 birds and four other dates surpassed 100 birds: May 9 (197), April 24 (141), May 14 (118), and May 5(100).

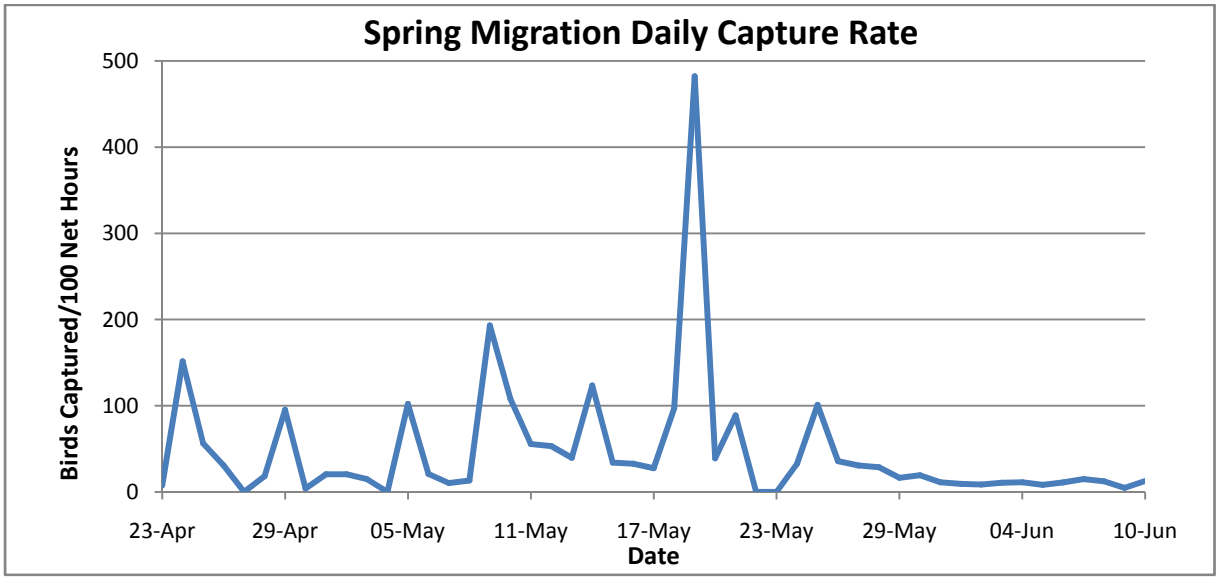

Figure 1.Daily capture rates during spring migration monitoring, 2012.

A total of 47 species were captured during spring banding, slightly above the spring average of 45 species. The top five banded species were: Myrtle warbler (509), Swainson's thrush (403), dark-eyed junco (174), American redstart (89), and Tennessee warbler (82). These five species accounted for 65% of all birds banded in the spring. Highlights of spring banding included a Nashville warbler on May 2, it was the fourth one banded at the station and first to be banded in the spring; a gray catbird on May 26, the first one captured since 2002; and an American kestrel on May 9, only the second one banded at the LSLBO. Banding totals for each speciesare listed in Appendix I.

Spring migration was heavy over the first half of the season (Figure 2). Large numbers of American robins, Myrtle warblers and dark-eyed juncos were observed during the opening two days of monitoring. April 29 was the day of strongest migration passage and included thousands of Myrtle warblers, American robins, blackbirds and hundreds of sparrows and waterfowl; overall 64 species were observed. Migration became steady through the first half of May with a

diverse number of songbird species. This period peaked on May 16 with over 7,000 birds from 84 species observed. Migration then slowed down considerably through the second half of the spring. In total, the observatory recorded 153 species (Appendix II). No new species were added to the LSLBO's sight records, but highlight sightings included a three-toed woodpecker, long-eared owl, long-billed curlew, American avocets, Nashville warbler, gray catbird, sora, and Cooper's hawk.

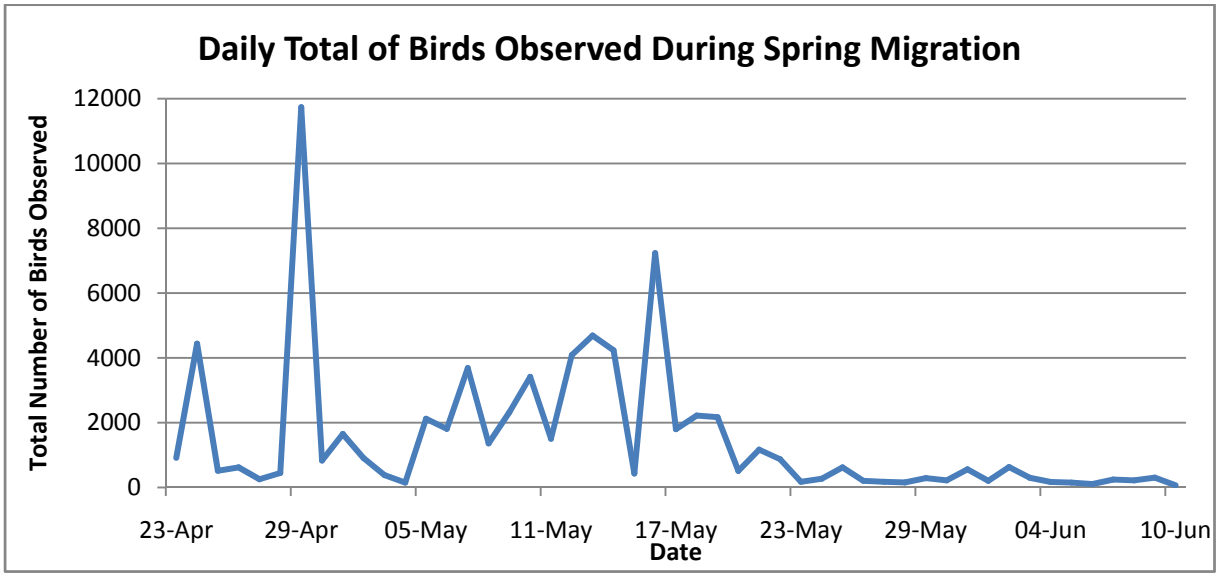

Figure 2. Total number of birds detected each day during spring migration 2012.

Fall Migration

Fall migration monitoring is conducted from July 12 until late September. This time period encompasses the migratory window of the majority of songbird species encountered at the LSLBO. Most of the activity during the opening days of fall monitoring is locally breeding individuals, but it is not unusual to observe a few individuals actively migrating. After the opening week, migration activity picks up and there can be consistent and heavy migratory passage of songbirds through the remainder of July and into early August. Migration from mid-August until mid-September occurs in pulses; relatively steady migration is interspersed with the occasional heavy passage of songbirds. Activity then slows down considerably and by late September most songbird activity consists of resident species and the occasional late migrant.

Daily migration monitoring was conducted from July 12 to September 29 for 80 days of coverage. The census was conducted every day of operation. Observers aimed to run 8 visual migration counts each day, but conducted 6 on poor weather days. Poor weather conditions prevented banding on 3 days and forced reduced net-hours on 32 days. Typical during the fall, strong late morning winds develop which often forces the exposed nets to be closed early. Overall the fall received excellent migration coverage consistent with previous years (Table 2).

Table 2.Summary of effort during fall migration monitoring at LSLBO, 2004-2012.

Fall	2004	2005	2006	2007	2008	2009	2010	2011	2012
Coverage									
First Day	12-Jul	12-Jul	12-Jul	12-Jul	12-Jul	12-Jul	12-Jul	12- Jul	12-Jul
Last Day	30-Sep	29-Sep	29-Sep	30-Sep	2-Oct	28-Sep	30-Sep	30-Sep	29-Sep
Number of Days	78	75	77	73	76	77	80	81	80
Person-days	164	170	149	114	131	165	158	140	126
Banding									
First Day	12-Jul	12-Jul	12-Jul	12-Jul	12-Jul	12-Jul	12-Jul	12-Jul	12-Jul
Last Day	30-Sep	29-Sep	29-Sep	30-Sep	2-Oct	28-Sep	30-Sep	30-Sep	29-Sep
Number of Days	73	71	73	68	74	75	77	75	77
Av. Daily Net Hrs.	69.8	76	73.9	71.9	75.7	78.9	81.5*	77.9*	82.1*
Census									
First Day	12-Jul	12-Jul	12-Jul	12-Jul	12-Jul	12-Jul	12-Jul	12-Jul	12-Jul
Last Day	30-Sep	29-Sep	29-Sep	30-Sep	1-Oct	28-Sep	30-Sep	30-Sep	29-Sep
Number of Days	78	75	77	73	75	77	80	81	80
Vis-Migs									
First Day	12-Jul	12-Jul	12-Jul	12-Jul	12-Jul	12-Jul	12-Jul	12-Jul	12-Jul
Last Day	30-Sep	29-Sep	29-Sep	30-Sep	2-Oct	28-Sep	30-Sep	30-Sep	29-Sep
Number of Days	78	75	77	73	76	77	80	81	80
Av Daily Vis-migs	7.6	7.7	7.7	7.7	7.5	7.6	7.5	7.3	7.6

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

Mistnets were set for a total of 6567.17 net hours; achieving 84% of the total possible 7840 net hours. The twelve standard netlanes were set for 5745.65 net hours and the two aerial nets were set for 821.52 net hours; achieving 86% and 73% respectively, of the total possible net hours. A total of 1588 birds were banded and 116 birds were recaptured during the season. The banding total was below the fall average of 1821. Banding was steady, but not especially busy, through most of the season (Figure 3). The busiest banding day of the fall was September 13, with 184 birds banded. Banding totals surpassed 50 birds on only two other days: July 23 (75) and September 15 (51).

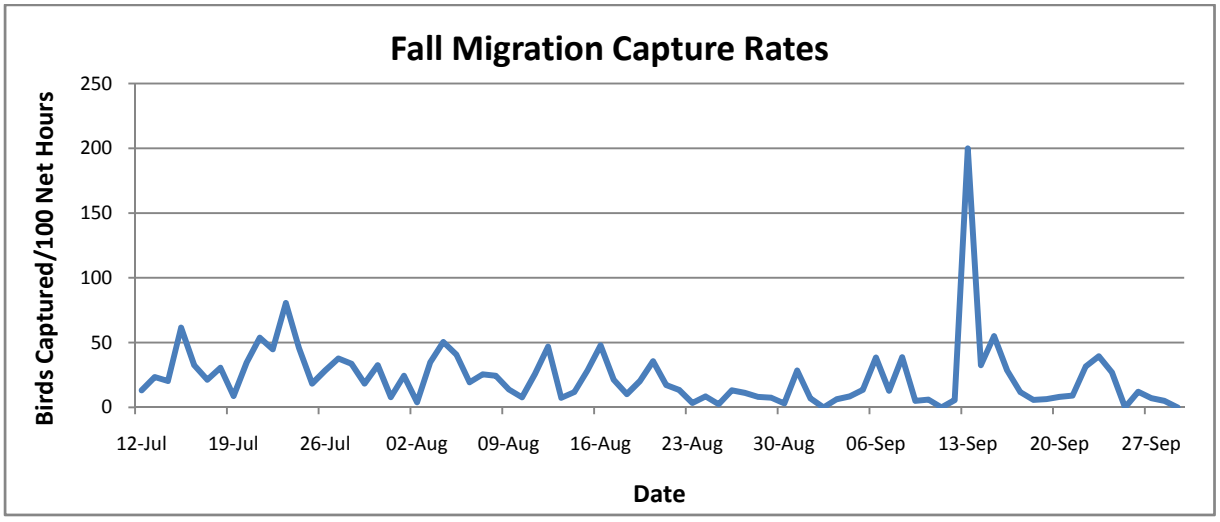

Figure 3. Daily capture rates during 2012 fall migration.

A total of 56 species were captured during fall banding, slightly above the fall average of 55. The top five banded species were: Myrtle warbler (359), ovenbird (174), Swainson's thrush (146), yellow warbler (97), and Tennessee warbler (84). These five species accounted for 54% of all the birds banded during the season. Two species highlighted the fall banding: a red-winged blackbird banded on July 17, the first one banded since 2000; and a pileated woodpecker banded on September 1, only the third banding record at the LSLBO. A complete list of all species banded is in Appendix I.

Migration was constant throughout the entire fall migration period with three definite peaks occurring during the season (Figure 4). Although migrants were observed on the opening day of fall monitoring in 2012, the first peak did not occur until July 29. The peak that occurred during the period of July 29 to August 2 was composed primarily of a large number of Franklin's gulls moving through the area; actual songbird passage, however, was quite light over that period of time. The second peak of the fall occurred in mid-August with a large passage of Tennessee warblers and myrtle warblers. The third peak of the fall occurred during the second week of September. This passage included large numbers of myrtle warblers and orange-crowned warblers. A total of 127 species were encountered during fall migration. No new species were recorded for the station in the fall, but highlights included red crossbill, gray catbird, upland sandpiper, varied thrush, and Townsend's solitaire. Sight records and peak days for encountered species are listed in Appendix II.

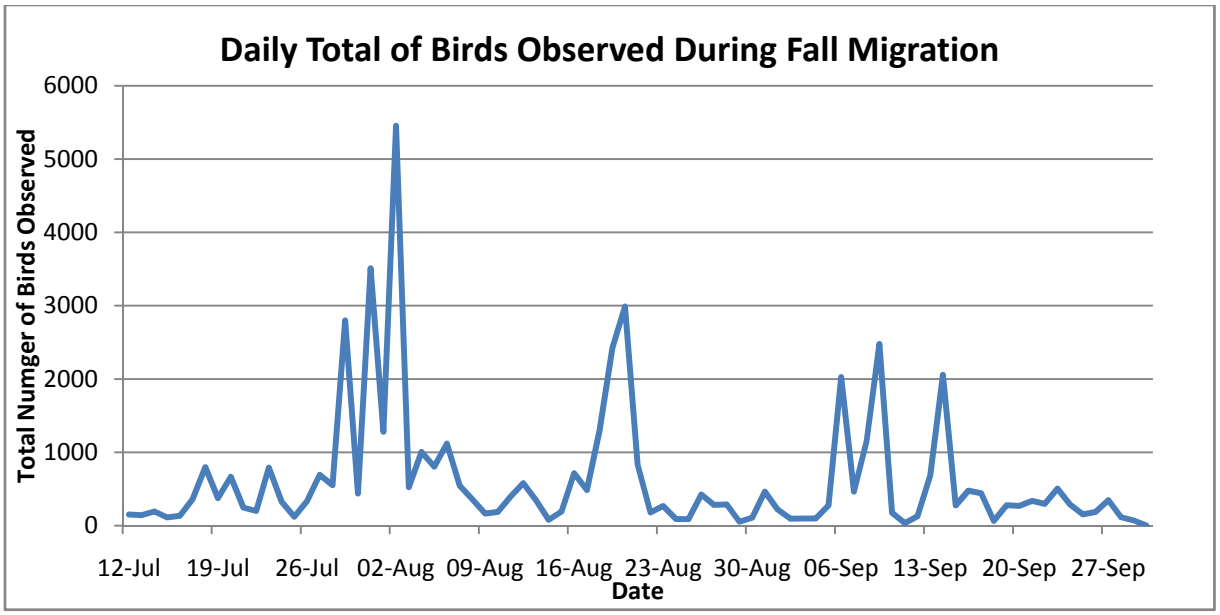

Figure 4. Total number of birds detected each day during fall migration 2012.

Monitoring Avian Productivity and Survivorship (MAPS)

Monitoring Avian Productivity and Survivorship (MAPS) is a long-term monitoring program coordinated by the Institute for Bird Populations. The primary focus of MAPS is to monitor populations on the breeding grounds. The LSLBO has participated in the MAPS program since 1994 and it remains one of the organizations core monitoring projects. 2012 marks the 19th consecutive year that the LSLBO has contributed to the MAPS program.

The LSLBO currently operates four MAPS stations: Far-and-Away (FAWA), Fern Gully (FEGU), Roadside (ROAD), and Residence (RESI). Three stations, FAWA, FEGU, and ROAD, are located in the forest bordering the migration monitoring station, while RESI is located near the Boreal Centre for Bird Conservation. FAWA and ROAD have operated for all 19 years. FEGU operated from 1994 to 2000. It was reopened in 2003, and has since operated for 10 consecutive years. RESI was established in 2000 and completed its 12th consecutive year of operation. Each station is visited once every 10 day period throughout the breeding season and follows operating protocols described in the MAPS Manual. The LSLBO operates through 6 of the periods, the dates that each station was visited in 2012 were:

	FAWA	**FEGU**	**ROAD**	**RESI**
Period 5 (Jun 10 – 19)	June 14	June 11	June 13	June 15
Period 6 (Jun 20 – 29)	June 26	June 22	June 23	June 25
Period 7 (Jun 30 – Jul 9)	July 2	June 30	July 1	July 3
Period 8 (Jul 10 - Jul 19)	July 13	July 11	July 12	July 10
Period 9 (Jul 20 – 29)	July 22	July 23	July 25	July 20
Period 10 (Jul 30 – Aug 8)	July 31	August 1	August 2	July 30

MAPS Banding

The LSLBO operates four MAPS station. Each MAPS station operates 10 mistnets and can achieve a maximum of 360 net hours during the season. FAWA, FEGU, and ROAD received maximum coverage. RESI received slightly reduced coverage, with 357 net hours, due to a moose damaging a net.

A total of 258 birds were captured during the 2012 MAPS banding season; 167 were new bands and 91 recaptures, representing 22 species and forms. FEGU had the highest capture total of the stations with 56 birds banded and 33 recaptured from 12 species (Table 3). RESI had the second highest capture total and the highest species diversity of the stations diversity with 57 banded and 15 recaptured from 18 species (Table 4). ROAD had the third highest capture total with 35 banded and 28 recaptured from 13 species (Table 5). FAWA had the lowest capture total with 19 banded and 15 recaptured from 10 species (Table 6).

Table 3. Captures at the Fern Gulley (FEGU) MAPS station.

Species	2012		Previous Years' Total Captures				
	Banded	Recap	94-99	03-08	2009	2010	2011
Sharp-shinned Hawk				1			
Northern Saw-whet Owl			1				
Yellow-bellied Sapsucker				2	1	1	1
Three-toed Woodpecker				1			
Alder Flycatcher			6	5	1		
Least Flycatcher	1		2	6			
Blue-headed Vireo			2	1			
Red-eyed Vireo			4	4		2	
Blue Jay				1			
Black-capped Chickadee			7	3			
Red-breasted Nuthatch			4				
Brown Creeper				3			
Winter Wren	3		3	3	1		
Swainson's Thrush	5		50	38	9	1	4
Hermit Thrush			1	3	1		
American Robin			4	1	1		1
Cedar Waxwing				2			
Tennessee Warbler			30	55	25		
Orange-crowned Warbler			1				
Yellow Warbler			13	10		1	
Chestnut-sided Warbler			2				
Magnolia Warbler			17	6	3		3
Yellow-rumped Warbler	1		26	15	2	6	1
Black-throated Green Warbler			1	1			
Bay-breasted Warbler				1			
Black-and-white Warbler	4		12	12	7	1	2
American Redstart	12	11	237	170	19	22	7
Ovenbird	9	3	41	75	18	5	10
Northern Waterthrush			1	1			
Mourning Warbler	1		51	24	12	5	1
Common Yellowthroat				2			
Wilson’s Warbler				1			
Canada Warbler	12	10	112	115	20	27	23
Western Tanager			1	3	1	2	
Chipping Sparrow	1		2	1	1		
Song Sparrow			5				
Swamp Sparrow			2			1	
Lincoln’s Sparrow	1					1	
White-throated Sparrow	6	9	102	88	8	14	9
Rose-breasted Grosbeak				1			1
Pine Siskin			2				
Total	**56**	**33**	**742**	**493**	**130**	**89**	**63**

Table 4. Captures at the Residence (RESI) MAPS station.

Species	2012		Previous Years' Total Captures					
	Banded	Recap	'00-06	2007	2008	2009	2010	2011
Sharp-shinned Hawk			2			1		
Ruby-throated Hummingbird			2					
Yellow-bellied Sapsucker	2		17	2	2	2	1	
Downy Woodpecker					1			
Northern Flicker			1					
Western Wood-Pewee			1					
Alder Flycatcher			1					
Least Flycatcher			44	1	4			
Black-capped Chickadee	1		23	2				
Red-breasted Nuthatch			3		1			
Brown Creeper	1		2		1		1	
Winter Wren	1		5		8			
Ruby-crowned Kinglet			4					
Swainson's Thrush	4	1	58	4	13	13	8	4
Hermit Thrush			24	3				2
American Robin	1		6		2	2	4	
Red-eyed Vireo	1		8	4	5		1	
Philadelphia Vireo			2		1			
Warbling Vireo			2					
Blue-headed Vireo			3				1	
Cedar Waxwing							1	1
Tennessee Warbler	2		156	12	12	10	2	2
Orange-crowned Warbler			1					
Yellow Warbler			15	4	3	2		
Magnolia Warbler			30	4	3	5	1	1
Cape May Warbler				1				
Yellow-rumped Warbler	4	1	121	9	6	12	7	3
Black-throated Green Warbler			5			3		
Bay-breasted Warbler			6					
Blackpoll Warbler			2					
Black-and-white Warbler	3		9	3	6	4	2	1
American Redstart	6		84	15	7	7	6	3
Ovenbird	8	3	63	13	11	18	14	6
Northern Waterthrush			1					1
Mourning Warbler		2	11	2	4	9	6	3
Common Yellowthroat	1		3		1	1	1	
Canada Warbler	4	1	29	12	11	2	8	4
Western Tanager			3					
Rose-breasted Grosbeak			7		1	1	2	
Chipping Sparrow	1		12	2		6	1	
Clay-colored Sparrow			1					
Lincoln's Sparrow			7	9	1	10	1	
Swamp Sparrow	1					1		
White-throated Sparrow	16	6	102	13	18	9	17	6
Purple Finch			1			2		
Pine Siskin			1					
Total	**57**	**15**	**889**	**115**	**122**	**120**	**85**	**37**

Table 5. Captures at the Roadside (ROAD) MAPS station.

Species	2012		Previous Years Captures					
	Banded	Recap	94-'06	2007	2008	2009	20010	2011
Yellow-bellied Sapsucker			9		1	3		
Downy Woodpecker			1					
Hairy Woodpecker			2	1				
Pileated Woodpecker			1					
Yellow-bellied Flycatcher			1					
Alder Flycatcher			6					
Least Flycatcher			11					
Black-capped Chickadee			11			1	1	
Red-breasted Nuthatch			1					
Brown Creeper	1		1	2		2		
Winter Wren			7	5	2	6		
Ruby-crowned Kinglet			4					
Swainson's Thrush	7	3	100	8	13	11	7	7
Hermit Thrush			2			3	1	
American Robin	4	7	7	1		1	1	5
Cedar Waxwing			3					
Warbling Vireo			1					
Red-eyed Vireo	1		6	2		1		
Tennessee Warbler	1		112	3	9	10		1
Orange-crowned Warbler			1					
Yellow Warbler			9					
Chestnut-sided Warbler			5					
Magnolia Warbler			114	3	1	6	1	4
Cape May Warbler			3					
Yellow-rumped Warbler	1	6	80	4	9	3	2	2
Black-throated Green Warbler			7				1	
Palm Warbler			1					
Blackpoll Warbler			2					
Black-and-white Warbler	1		28	6	3	3	1	2
American Redstart	4	1	231	13	14	11	2	2
Ovenbird	6	10	132	9	18	20	14	17
Northern Waterthrush			3			1		
Mourning Warbler			18	1	2	4	1	
Common Yellowthroat			2					
Canada Warbler	6		218	8	15	21	10	9
Western Tanager			3		1			
Rose-breasted Grosbeak	1		4	1				
Chipping Sparrow			16	3		1	1	
Song Sparrow			2					
Lincoln's Sparrow		1	3		1			
Swamp Sparrow				1				
White-throated Sparrow	2		129	6	5	11	8	2
Purple Finch			1					
Pine Siskin			1					
Total	**35**	**28**	**1221**	**77**	**94**	**119**	**51**	**51**

Table 6. Captures at the Far Away (FAWA) MAPS station.

Species	2012		Previous Years' Total Captures					
	Banded	Recap	94-‘06	2007	2008	2009	2010	2011
Sharp-shinned Hawk						1		
Yellow-bellied Sapsucker	1	2	1	2	3		3	3
Downy Woodpecker			1					1
Hairy Woodpecker					1			1
Least Flycatcher			15	2	1		8	6
Winter Wren				1				
Swainson's Thrush			10		2	1	7	2
Hermit Thrush			2	1	2	1		
American Robin	1		11	1	1	1	3	
Cedar Waxwing			1					
Philadelphia Vireo			1	1				
Warbling Vireo								1
Red-eyed Vireo	1		7	1	1		1	2
Tennessee Warbler			18	4	5	10		
Yellow-warbler	1		5		1		2	1
Chestnut-sided Warbler			1					
Magnolia Warbler			1					
Yellow-rumped Warbler	3	1	36	3	4	2	7	5
Black-and-white Warbler			3		2	1		
American Redstart	1		70	3	10	4	7	4
Ovenbird	2	3	47	8	6	7	6	5
Connecticut Warbler			1					
Mourning Warbler	3		69	4	9	12	17	5
Common Yellowthroat			2					
Canada Warbler	3	2	117	10	12	12	10	5
Western Tanager			2				2	
Rose-breasted Grosbeak			1		1			1
Lincoln’s Sparrow			1		3	1		
White-throated Sparrow	3	7	172	17	16	15	11	14
Slate-coloured Junco					1			
Total	**19**	**15**	**605**	**58**	**80**	**68**	**72**	**56**

Breeding Status

Breeding status was determined for the 64 species encountered during MAPS station visits in 2012 (Table 7). The breeder status (B) was given to species with strong evidence supporting breeding activity within the boundaries of the MAPS station. Likely breeders (L) were species frequently observed at a station, but lacked strong evidence of breeding activity within the station's boundaries. Transient species (T) were observed at a station, but it is unlikely that they were breeding within the stations boundaries. Observations were restricted to MAPS banding site visits only.

Table 7.Breeding Status of MAPS birds in 2012.

Species	RESI	ROAD	FEGU	FAWA	Species	RESI	ROAD	FEGU	FAWA
Common Loon	T			T	Ruby-crowned Kinglet	B		T	
Canada Goose		T			Swainson's Thrush	B	B	B	T
Mallard	B				Hermit Thrush	B			
Common Goldeneye	B				American Robin	B	B	B	T
Osprey				T	Cedar Waxwing	T	T	T	T
Bald Eagle		T	T	T	Tennessee Warbler	B	B	B	L
Sharp-shinned Hawk	T				Yellow Warbler	B	B	B	B
Merlin		T	T	T	Magnolia Warbler	B			T
Ruffed Grouse	B		T	T	Yellow-rump'dWarb.	B	B	B	B
Spotted Sandpiper	T				Black-thrt'dGrnWarb.	B	T	B	T
Franklin's Gull		T	T	T	Blackburnian Warbler	L			
Ring-billed Gull		T		T	Bay-breasted Warbler		T		
Belted Kingfisher	T				Black-and-white Warb.	B	B	B	T
Yellow-bellied Sapsucker	B	T	T	B	American Redstart	B	B	B	B
Hairy Woodpecker	L	T	T		Ovenbird	B	B	B	B
Northern Flicker			T		Mourning Warbler	B	T	B	B
Pileated Woodpecker	B	T			Common Yellowthroat	B			
Alder Flycatcher	L	T	L	B	Canada Warbler	B	B	B	B
Least Flycatcher	B	L	L	L	Western Tanager	B	L	B	T
Eastern Phoebe	T				Chipping Sparrow	B	B	L	
Blue-headed Vireo	T	L	T		Song Sparrow		T	B	
Warbling Vireo	B				Lincoln's Sparrow		L		
Philadelphia Vireo	B	T	L	B	Swamp Sparrow	B			
Red-eyed Vireo	B	B	B	B	White-thrt'd Sparrow	B	B	B	B
Blue Jay	T	T	T	T	Rose-breast'd Grosbeak	B	T	T	L
American Crow	T	T	T	B	Brown-headed Cowbird	T			
Common Raven	T	T		T	Pine Siskin	T	T	T	T
Tree Swallow	T	T	T		Purple Finch		T		T
Black-capped Chickadee	B	B	B	B	American Goldfinch				T
Boreal Chickadee	L				Evening Grosbeak	T	T	T	T
Red-breasted Nuthatch	B	B	B	T					
White-breasted Nuthatch	T	T	T	T					
Brown Creeper	B	L	L	T					
Winter Wren	B	B	B	L		RESI	ROAD	FEGU	FAWA
					Total sp. Breeder (B)	33	15	18	13
					Total sp. Likely (L)	4	5	5	4
					Total sp Transient (T)	15	24	17	23
					Total sp.	52	44	40	40

Recaptures

The LSLBO recorded 298 recaptures during the 2012 banding season: 72 during spring migration, 116 during fall migration, 91 during MAPS, 16 during target banding for the feather isotope projects, 2 during the Canada Warbler Project, and 1 during northern saw-whet owl banding. The recapture records represent 208 individuals: 135 were banded in 2012 and recaptured later in the season. 41 birds were banded in the 2011 season. 32 birds were originally banded before 2011 and represent some of the oldest known-age birds encountered during the banding season (Table 8). All birds were originally banded by the LSLBO; there were no foreign bands recovered during banding activities.

Table 8. Age of recaptured birds originally banded at the LSLBO before 2011.

Species	Band Number	Original Banding			Recapture		Age
		Date	Location	Age	Date	Location	
Sharp-shinned Hawk	1543-06194	08/08/2010	Mig	HY	25/05/2012	Mig	2 years
Northern Saw-whet Owl	0924-32980	12/10/2010	NSWO	HY	17/09/2012	NSWO	2 years
Swainson's Thrush	2341-50292	23/07/2010	Mig	HY	20/07/2012	Mig	2 years
White-throated Sparrow	2341-50310	28/07/2010	Mig	HY	22/06/2012	FEGU	2 years
American Redstart	2520-57803	13/06/2010	FEGU	SY	12/06/2012	FEGU	3 years
Ovenbird	2311-97215	13/07/2010	Mig	SY	16/06/2012	LSLPP	3 years
Canada Warbler	2500-78927	01/08/2009	ROAD	HY	29/05/2012	Mig	3 years
Canada Warbler	2500-78957	23/06/2010	ROAD	SY	12/06/2012	FEGU	3 years
Myrtle Warbler	2500-78980	22/07/2010	FEGU	AHY	21/05/2012	Mig	3+ years
Canada Warbler	2560-00670	29/07/2010	Mig	AHY	04/06/2012	Mig	3+ years
Ovenbird	2311-97325	11/08/2010	Mig	AHY	13/06/2012	ROAD	3+ years
Myrtle Warbler	2450-46077	30/06/2009	RESI	SY	15/06/2012	RESI	4 years
American Redstart	2470-89659	22/07/2008	Mig	HY	08/06/2012	LSLPP	4 years
Ovenbird	1741-02809	26/05/2009	Mig	SY	13/06/2012	ROAD	4 years
Red-eyed Vireo	2311-97027	27/07/2009	Mig	AHY	07/06/2012	Mig	4+ years
Myrtle Warbler	2560-00445	29/05/2010	Mig	ASY	14/06/2012	LSLPP	4+ years
Myrtle Warbler	2500-78964	01/07/2010	FAWA	ASY	14/06/2012	FAWA	4+ years
Ovenbird	2311-97918	01/06/2010	LSLPP	ASY	14/06/2012	LSLPP	4+ years
Mourning Warbler	2500-78965	02/07/2010	RESI	ASY	03/07/2012	RESI	4+ years
Canada Warbler	2500-78615	15/07/2009	Mig	AHY	31/05/2012	Mig	4+ years
White-throated Sparrow	2291-01411	11/06/2010	RESI	ASY	20/07/2012	RESI	4+ years
Ovenbird	1741-02018	30/06/2008	RESI	SY	20/07/2012	RESI	5 years
Alder Flycatcher	2350-49991	02/07/2008	FEGU	AHY	04/06/2012	Mig	5+ years
Canada Warbler	2500-78568	07/06/2009	Mig	ASY	22/06/2012	FEGU	5+ years
White-throated Sparrow	1721-63948	13/06/2009	FEGU	ASY	14/06/2012	FAWA	5+ years
White-throated Sparrow	1721-63956	21/06/2009	FAWA	ASY	14/06/2012	FAWA	5+ years
American Redstart	2470-89115	10/06/2007	Mig	SY	26/05/2012	Mig	6+ years
Ovenbird	1741-02022	02/07/2008	FEGU	ASY	23/07/2012	Mig	6+ years
Canada Warbler	2350-49332	29/05/2006	Mig	SY	23/06/2012	ROAD	7 years
American Redstart	2330-39827	23/08/2006	Mig	AHY	12/06/2012	FEGU	7+ years
White-throated Sparrow	1721-63308	06/05/2007	Mig	ASY	25/06/2012	RESI	7+ years
Ovenbird	2181-79095	29/06/2005	FEGU	AHY	02/07/2012	FAWA	8+ years

Northern Saw-whet Owl Monitoring

The LSLBO completed its ninth consecutive year of northern saw-whet owl monitoring in 2012. This project began in 2004 to monitor northern saw-whet owl populations during fall migration through banding. Banding was conducted over 32 nights from August 29 to October 10. Mistnets were set for a total of 468 net hours. A total of 112 northern saw-whet owls were banded, which is slightly above the average of 106 (Figure 5). A barred owl was captured and banded on October 8 and represented the fourth barred owl to be banded at the station during owl banding.

One northern saw-whet owl was recaptured on September 17 that was originally banded at the LSLBO as a hatch-year bird on October 12, 2010. Two northern saw-whet owls banded at the LSLBO were recaptured at another station later in the season. The first, 0924-53098, was banded at the LSLBO on September 16 and recaptured east of Tofield, Alberta on September 27. It was estimated to have flown 260 km in 11 days. The second saw-whet was banded at the LSLBO on September 22 and recaptured at the Bearverhill Bird Observatory on October 2. Thishatch-year female flew approximately the same distance, but in 10 days.

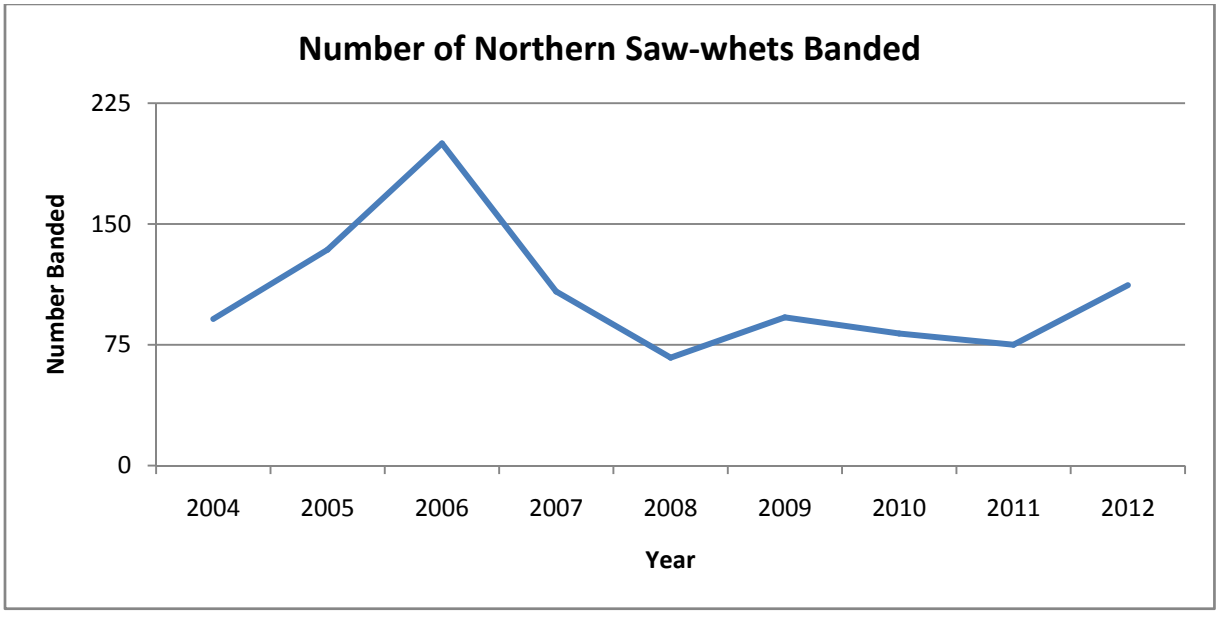

Figure 5. Total number of northern saw-whet owls banded at the LSLBO 2004-2012.

Capture Rates by Netlane- Standard versus Aerial Nets

The LSLBO traditionally operated 12 standard netlanes, using the same net types in the same locations each year for comparability. Two raised nets (aerial nets) were erected in the fall of 2010 to test if vegetation changes in the LSLBO's study area have affected capture rates and species diversity in the standard netlanes. These nets were placed parallel to and above existing nets (11 and 12) and designated 11x and 12x. The aerial nets were used during both the spring and fall migration seasons in 2012; it was the first full spring that the nets were used.

In the spring the aerial nets accounted for 30% of all bird captured. Net 11x had a capture rate of 144.8 birds/100 net hours, capturing 353 birds from 29 species. Net 12x had a capture rate of 90.3 birds/100 net hours, capturing 231 birds from 29 species. Overall the three nets positioned along the shoreline (nets 6, 11, and 11x) had the highest capture rates of all the nets in the spring (Figure 6). Net 11, which is adjacent to 11x, had a lower capture rate indicating that there may be vegetation effects at that location. The remaining nets are all located in the forest, these nets had a considerably lower capture rate than net 12x, which is the aerial net representing this area.

In the fall, the aerial nets accounted for 29% of all birds captured. Net 11x had a capture rate of 88.8 birds/100 net hours, with 357 birds captured from 40 species, and net 12x had a capture rate of 23.6 birds/100 net hours. Netlane 6 and 11x had the highest capture rates of all the nets, by a considerable amount (Figure 6). The difference between net 11 and 11x was substantial. Net 12x, unlike during the spring, did not have the highest capture rate of the forest nets during the fall; nets 1 and 5 had slightly higher capture rates.

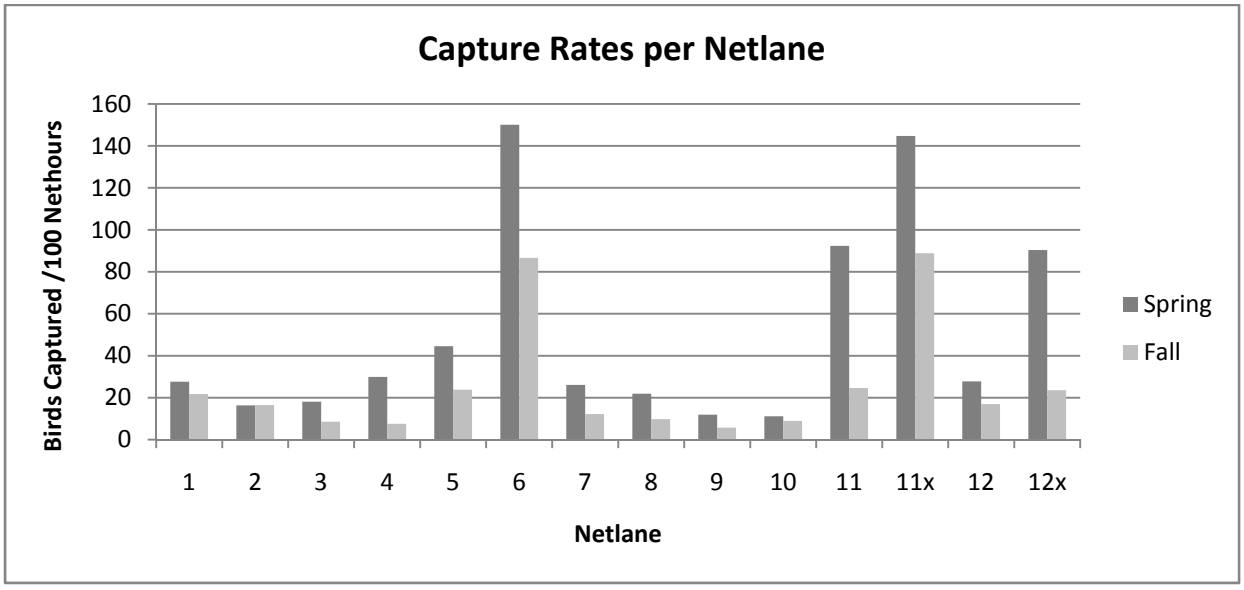

Figure 6. Capture rate per netlane during 2012 spring and fall migration.

Determining the Timing of Fall Migration

The LSLBO began a joint research project with the University of Albertaand Alberta Parks in 2010. One of the objectives of the project was to collect feathers from individuals of four species (Swainson's thrush, Tennessee warbler, Myrtle warbler, and American redstart) to use for stable isotope analysis. Stable isotopes signatures expressed in feathers can be used to determine the approximate latitude in which the feather was grown. Collecting feathers from individuals over the course of the fall should provide information of when locally produced young birds migrate out of the area and migrants from other areas move through. This would provide a stronger understanding of the migratory patterns observed at the LSLBO.

The focus in 2010 was beginning to specifically examine the timing of fall migration through stable isotopes. Feather collection was expanded in 2011 to include spring migration and the breeding season. Individuals were captured on the breeding grounds to obtain a baseline isotope signature to act as a benchmark to compare to the migratory signatures. Feathers were collected during spring migration to provide connectivity between the two migration seasons; for example, to identify if leap-frog migration is expressed by any of the focal species.

The collection in 2012 continued following the same methods in 2011. A total of 765 feathers were collected through the seasons (Table 9).

Table 9. Feather samples collected from species for stable isotope analysis.

	Spring Migration	**Breeding Season**	**Fall Migration**	**Total**
Myrtle Warbler	100	35	115	250
Swainson's Thrush	101	12	114	227
American Redstart	71	37	48	156
Tennessee Warbler	46	8	78	132
Total	318	92	355	765

Canada Warbler Project

In 2012 the LSLBO re-initiated the Canada Warbler Project. This multi-year project was aimed at determining the habitat use of breeding Canada warblers in the Lesser Slave Lake Provincial Park. Radio-transmitters were placed on 16 individuals at four study sites throughout the Park. The transmitters were used for locating each bird to obtain location points. These points were then used to estimate the Canada warbler's territory size and delineate territory boundaries. Vegetation surveys were then conducted to describe habitats that Canada warblers use.

This was a stand-alone project and did not incorporate data and activities from normal monitoring activities. It is a question-based research project with the expectation that the results will be peer reviewed and published in a scientific journal. Results from the field work in 2012 were not prepared at the time of this report.

Staff and Volunteers

The LSLBO operated with two banders during the 2012 season. The bander-in-charge has been working at the LSLBO since 2004 and the assistant bander has been at the LSLBO since 2008. These staff members are licensed banders and responsible for all monitoring activities and the safety of all birds banded. Joining them were staff working on the Canada warbler project and Cori Klassen, the boreal educator at the BCBC. Volunteer activity was minimal and only occurred on 14 days during the year (Table 10).

Table 10. Number of staff and volunteer days spent on monitoring projects in 2012.

LSLBO Staff	Spring	MAPS	Fall	Total
Richard Krikun	39	10	52	101
Nicole Linfoot	42	18	59	119
Scott Sandford	7	1	3	11
Angela Nerbas	7	1	3	11
Cori Klassen			7	7
Total	95	20	124	239
Volunteers				
Kathy Cullen	2		2	4
Dave Cullen	2		2	4
Karin Nelson	1			1
Meaghan Bouchard			2	2
Amelie Roberto-Charron			2	2
Melanie Quinn			1	1
Total	5		9	14

Visitors and Education

Education is an important component of the LSLBO's mandate. Education programs provided by the Boreal Centre for Bird Conservation (BCBC) highlight the migration monitoring at the monitoring station for elementary, secondary, and post-secondary students. The LSLBO also hosts drop-in events for visitors of the Park to learn more about birds, migration and conservation (Table 11).

Spring is an active time for school groups coming to the lab. In 2012 the LSLBO had 9 elementary school classes, 3 junior high school classes, 2 post-secondary classes. Additional tours consisted of avid birders from Texas, and a media visit (Let's Go Outdoors). The annual Songbird Festival was held on June 2and about 80 visitors participated in the banding lab tours.

Visitation usually drops in the fall and most visitors consist of campers or tourists exploring the area. Formal banding lab tours are advertised twice a week through mid-July and August. Ten of these tours were held in the fall and were led by one of the BCBC's interpreters. Four scheduled tours for larger groups were held in the fall and included a Junior Forest Wardens outing and a group from the local senior's lodge. One of the final lab tours of the fall was a biology field class from Portage College.

Table 11.Number of visitors to the banding station in 2012.

	Adults	**Kids**	**Total**
Spring Migration	255	246	501
Fall Migration	156	94	250
Total	411	340	751

Recommendations

Migration Monitoring

- The station manual needs to be evaluated and, if needed, updated. The CMMN has requested station self-evaluations, which include the protocol update. Additions to the protocol should include addressing the operation of the aerial nets, visitors and banding-lab tours, and administrative requirements (ie. data-submission and permit renewals).

Aerial Nets

- A full analysis of the effectiveness of the aerial nets in terms of compensating species captures and vegetation changes has not been completed. This is because the aerial nets have only had one complete spring of operation. The aerial nets should continue to be used in 2013 to gather more data.
- At least two personnel should be present when operating the aerial nets.

Northern Saw-whet Owl Banding

- Traditionally staff living on site would band owls in their free time in the evenings. Field staff will not be living on site in the fall of 2013, which may affect how the owl project is conducted. Owl monitoring will need to be re-evaluated to determine the logistics of how staff will run it without interfering with normal migration monitoring activities.

Canada Warbler Project

- The Canada Warbler Project has now become its own project with a dedicated staff.
- The banding staff is required to assist with any banding necessary, so careful planning must be done to avoid conflicts between this project and other monitoring priorities.

Joint Research Project: LSLBO,University of Alberta, and Alberta Parks

- The LSLBO will continue contributing feathers from birds captured during normal migration monitoring and MAPS banding and may assist in retrieving geolocators attached to Ovenbirds in 2012. The LSLBO needs to ensure that operational support in-kind for partner projects does not take away from the LSLBO's core programs.
- The University of Alberta has established an agreement with the federal government which will streamline the permitting process and allow more flexibility with the feather collection for stable isotopes.

Visitors, education, and volunteers

- Scheduled banding lab tours should always have an educator/interpreter present; the banding staff cannot handle large groups and effectively run the monitoring station.
- Interpretation staff should be knowledgeable about the monitoring projects and their goal to effectively and accurately pass on important information to visitors at the BCBC.
- The volunteer program needs to be evaluated. The LSLBO is having a difficult time attracting and keeping long-term volunteers. The evaluation needs to include if we are advertising for volunteers correctly, if the banding staff are interacting with volunteers correctly, and if non-skilled volunteers are actually beneficial to the projects.

Acknowledgements

The 2012 field season was extremely successful. The field staff did an amazing job collecting data for a large number of projects in a relatively short period of time. This work could not have been completed without support from the LSLBO, BCBC, Lesser Slave Lake Provincial Park, and the University of Alberta and our funders.

We would like to thank the following people:

- The LSLBO Board of Directors: Bob Deacon, Terry Kristoff, Nelson Lutz, Ronda Groom, Tyler Flockhart, Cherie Friesen, and Neal Knoot.
- Patti Campsall, the LSLBO Executive Director, for outstanding daily operational support.
- The Canada Warbler field crew, Scott Sandford and Angela Nerbas; and Tyler Flockhart for amazing logistical support during the field season.
- The BCBC education staff, Cori Klassen, Kaley Donaldson, and Adam Rooke.
- Dr. Erin Bayne and Samuel Hache from the University of Alberta.
- Reg Arbuckle from Alberta Parks.
- The volunteers for the season, Cori Klassen, Dave and Kathy Cullen, Kerin Nelson, Meachghan Bouchard, AmelieRoboerto-Charron, and Melanie Quinn.
- The LSLBO's two most loyal visitors and highly enjoyable sources of company (especially with gifts of coffee, donuts, and fresh garden veggies): Aaron Lehman and 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

Alberta Conservation Association
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Stephen Partington

Appendix I: Annual Banding Totals

Species	2012 Spring Migration	2012 MAPS	2012 Fall Migration	2012 Projects	2012 Total	Grand Total 1993-2012
"Audubon's" Warbler						2
Alder Flycatcher	26		39		65	1747
American Goldfinch						1
American Kestrel	1				1	2
American Magpie						1
American Pipit						18
American Redstart	89	23	57	15	184	6711
American Robin	17	6	5		28	358
American Tree Sparrow	46		16		62	508
Baltimore Oriole						5
Bay-breasted Warbler	1		4		5	110
Barred Owl				1	1	4
Black-and-White Warbler	41	8	59		108	1596
Blackburnian Warbler						2
Black-capped Chickadee	2	1	52		55	844
Blackpoll Warbler	19		7		26	321
Black-throated Green Warbler			3		3	119
Blue Jay	1		1		2	55
Blue-headed Vireo	1				1	75
Boreal Chickadee						25
Brown Creeper		2	12		14	52
Brown -headed Cowbird						5
Canada Warbler	31	25	42	15	113	2658
Cape May Warbler	1		7		8	136
Cedar Waxwing			10		10	140
Chestnut-sided Warbler						21
Chipping Sparrow	60	2	4		66	1913
Clay-colored Sparrow	31		3		34	849
Common Grackle						4
Common Yellowthroat	12	1	11		24	613
Connecticut Warbler						24
Cooper's Hawk						2
Downy Woodpecker			3		3	60
Eastern Kingbird						1
Eastern Phoebe	2				2	131
Evening Grosbeak						1
Fox Sparrow	4				4	74
Golden-crowned Kinglet			4		4	76
Gray Catbird	1				1	6
Gray Jay						3
Gray-cheeked Thrush	35		4		39	158

Species	2012 Spring Migration	2012 MAPS	2012 Fall Migration	2012 Projects	2012 Total	Grand Total 1993-2012
Hairy Woodpecker			4		4	26
Harris's Sparrow						6
Hermit Thrush	17		26		43	475
Hoary Redpoll						1
House Wren	2				2	26
Lapland Longspur						5
Lazuli Bunting						1
Le Conte's Sparrow						6
Least Flycatcher	51	1	26		78	2005
Lincoln's Sparrow	6	1	5		12	768
Long-eared Owl						1
MacGillivray's Warbler						2
Magnolia Warbler	8		9		17	898
Marsh Wren						3
Mourning Warbler	7	4	32		43	991
Nashville Warbler	1				1	4
Northern Flicker	1		2		3	27
Northern Goshawk						1
Northern Mockingbird						1
Northern Pygmy-Owl						2
Northern Saw-whet Owl				112	112	967
Northern Shrike						1
Northern Waterthrush	16		14		30	675
Orange-crowned Warbler	22		53		75	1132
Olive-sided Flycatcher						2
Ovenbird	32	25	174	24	255	2984
Western Palm Warbler	12		5		17	232
Philadephia Vireo			4		4	168
Pileated Woodpecker			1		1	3
Pine Siskin						164
Purple Finch			8		8	75
Red-breasted Nuthatch			4		4	121
Red-eyed Vireo	9	3	22		34	663
Red-winged Blackbird			1		1	6
Rose-breasted Grosbeak		1	11		12	292
Ruby-crowned Kinglet	7		9		16	354
Savannah Sparrow	9		7		16	172
Sharp-shinned Hawk	3		34		37	446
Slate-colored Junco	174		43		217	1410
Song Sparrow	7		2		9	259
Swainson's Thrush	403	16	146	3	568	4693
Swamp Sparrow		1	5		6	171
Tennessee Warbler	82	3	84	5	174	4738
Three-toed Woodpecker						1
Townsend’s Solitaire						1
Varied Thrush						6

Species	2012 Spring Migration	2012 MAPS	2012 Fall Migration	2012 Projects	2012 Total	Grand Total 1993-2012
Veery						7
Vesper Sparrow						3
Warbling Vireo			2		2	59
Western Tanager			2		2	150
Western Wood-Pewee						22
White-breasted Nuthatch			2		2	10
Gambel's White-crowned Sparrow	21		12		33	426
White-throated Sparrow	72	27	32		131	2457
White-winged Crossbill						1
Wilson's Warbler	3		6		9	494
Winter Wren		4	1		5	47
Yellow Warbler	44	1	97		142	3299
Yellow-bellied Flycatcher	1				1	73
Yellow-bellied Sapsucker	3	3	1		7	149
Yellow-rumped Warbler	509	9	359	19	896	9404
Total number of birds banded	**1943**	**167**	**1588**	**194**	**3892**	**61017**
Total number of species banded	**47**	**22**	**56**	**8**	**66**	**102**

Appendix II: 2012 Migration Sight Records

The following list includes the seasonal first and last dates, the maximum total, and the number of days that each of the 166 species was encountered in 2012. Seasonal first and last dates, maximum totals, and the number of days encounter during 2011 have been included as a comparison in dates between the two seasons. All sightings are from the LSLBO during normal migration monitoring activities.

Common Loon:

	Spring 2012	**Spring 2011**	**Fall 2012**	**Fall 2011**
First sighting	May 3- 3	May 2 - 1	Jul 12 - 2	Jul 12 - 3
Last Sighting	Jun 10 - 1	May 15 - 3	Sep 28 - 1	Sep 27 - 1
Peak Day	Jun 3 - **45**	May 13 - **8**	Aug 26 - **10**	Aug 9 - **24**
# of Days Sighted	33	11	52	46

Horned Grebe:

	Spring 2012	**Spring 2011**	**Fall 2012**	**Fall 2011**
First sighting		May 3 - 1	Aug 16 - 3	Aug 27 - 4
Last Sighting		May 13 - 2	Sep 28 - 1	Sep 30 - 4
Peak Day		May 11&13- **3**	Sep 26 - **13**	Sep 5 - **7**
# of Days Sighted	0	3	28	3

Red-necked Grebe:

	Spring 2012	**Spring 2011**	**Fall 2012**	**Fall 2011**
First sighting	May 18 - **6**	May 11 - 3	Jul 23 - 2	Jul 13 - 1
Last Sighting	Jun 4 - 2	May 13 - 3	Sep 28 - 2	Sep 23 - 3
Peak Day		All dates - **3**	Sep 24 - **11**	Sep 8 - **10**
# of Days Sighted	15	2	50	53

Western Grebe:

	Spring 2012	**Spring 2011**	**Fall 2012**	**Fall 2011**
First sighting	May 18 - **1**		Aug 26 - **2**	Jul 18 - 1
Last Sighting			Sep 26 - 1	Sep 30 - 4
Peak Day			Aug26&Sep15- **2**	Aug5&Sep24- **5**
# of Days Sighted	1	0	6	26

American White Pelican:

	Spring 2012	**Spring 2011**	**Fall 2012**	**Fall 2011**
First sighting	May 17 - **9**		Jul 29 - 1	Jul 12 - 3
Last Sighting	Jun 2 - 5		Sep 24 - 1	Sep 20 - 1
Peak Day			Aug 20 - **10**	Aug 31 - **10**
# of Days Sighted	8	0	29	47

Double-crested Cormorant:

	Spring 2012	**Spring 2011**	**Fall 2012**	**Fall 2011**
First sighting	May 7 - 2	Apr 26 - 1	Sep 27 - **1**	Jul 13 - 1
Last Sighting	May 30 - **10**	May 11 - 1		Sep 7 - 1
Peak Day		May 6 - **19**		Jun 14 - **8**
# of Days Sighted	4	6	1	6

Great Blue Heron:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	Apr 3 - **3**	Apr 19 - 1	Aug 2 - 1	Jun 30 - 1
Last Sighting		May 14 - 1	Sep 14 - 1	Sep 3 - 1
Peak Day		All dates - **1**	Aug 5 - **2**	Aug 3 - **2**
# of Days Sighted	1	4	10	6

Tundra Swan

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	Apr 23 - **114**	Apr 22 - 1		
Last Sighting	May 8 - 2	May 7 - 2		
Peak Day		Apr 24 - **177**		
# of Days Sighted	7	8	0	0

Greater White-fronted Goose:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	Apr 23 - 3	Apr 23 - 116	Aug 31 - 20	Sep 5 - 70
Last Sighting	May 8 - 520	May 10 - 10	Sep 27 - 1	Sep 23 - 30
Peak Day	May 7 - **3310**	May 7 - **13325**	Sep 22 - **90**	Sep 15 - **473**
# of Days Sighted	11	10	7	5

Snow Goose:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	Apr 30 - 1	May 2 - 2	Sep 27 - **90**	Sep 25 - **45**
Last Sighting	May 8 - 2	May 5 - 8		
Peak Day	May 1 - **240**	May 7 - **3747**		
# of Days Sighted	5	7	1	1

Canada Goose:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	Apr 23 - 4	Apr 22 - 63	Aug 12 - 16	Jul 15 - 3
Last Sighting	Jun 9 - 8	May 14 - 2	Sep 28 - 6	Sep 25 - 14
Peak Day	May 8 - **115**	May 10 - **256**	Sep 14 - **80**	Sep 12 - **69**
# of Days Sighted	42	23	19	19

Green-winged Teal:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	May 7 - 3	May 2 - 40		
Last Sighting	Jun 6 - 1	May 13 - **49**		
Peak Day	May 8 - **14**			
# of Days Sighted	10	8	0	0

Mallard:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	Apr 23 - 3	Apr 25 - 10	Jul 12 - 3	Jun 26 - 1
Last Sighting	Jun 8 - 11	May 15 - 6	Sep 29 - 4	Sep 28 - 2
Peak Day	Apr 29 - **172**	May 2 - **30**	Aug 20 - **35**	Aug 19 - **10**
# of Days Sighted	41	21	32	14

Northern Pintail:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	Apr 29 - 4	May 3 - 2		
Last Sighting	May 12 - 10	May 13 - **38**		
Peak Day	May 5 - **20**			
# of Days Sighted	3	3	0	0

Blue-winged Teal:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	May 11 - 1	May 7 - 1		
Last Sighting	May 26 - 1	May 14 - 2		
Peak Day	May 15&17 - **4**	May 13 - **21**		
# of Days Sighted	5	5	0	0

Northern Shoveler:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	May 5 - 10	May 3 - 4		
Last Sighting	May 8 - **38**	May 15 - 1		
Peak Day		May 13 - **44**		
# of Days Sighted	4	6	0	0

Gadwall:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	May 8 - **1**	May 13 - **1**		
Last Sighting				
Peak Day				
# of Days Sighted	1	1	0	0

American Wigeon:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	Apr 24 - 20	May 2 - **80**	Jul 28 - **1**	
Last Sighting	Jun 10 - 1	Ma 15 - 2		
Peak Day	May 5 - **47**			
# of Days Sighted	28	13	1	0

Ring-necked Duck:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	May 16 - **5**	May 3 - 1		
Last Sighting		May 13 - **8**		
Peak Day				
# of Days Sighted	1	5	0	0

Greater Scaup:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	May 6 - 2	May 8 - 7		
Last Sighting	May 8 - **7**	May 13 - **10**		
Peak Day				
# of Days Sighted	2	2	0	0

Long-tailed Duck:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	May 4 - 15	May 13 - **92**		
Last Sighting	May 26 - 1			
Peak Day	May 17 - **318**			
# of Days Sighted	12	1	0	0

Surf Scoter:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	May 7 - 3	May 10 - 3		Aug 6 - **2**
Last Sighting	May 31 - 7	May 14 - **55**		
Peak Day	May 18 - **137**			
# of Days Sighted	14	3	0	1

White-winged Scoter:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	May 6 - 2	May 14 - 7	Jul 16 - 3	Aug 1 - **2**
Last Sighting	May 21 - 2	May 15 - **8**	Sep 24 - **7**	Aug 18 - 1
Peak Day	May 16 - **15**			
# of Days Sighted	7	2	4	2

Common Goldeneye:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	Apr 23 - 2	Apr 24 - 1	Jul 13 - 2	Jun 17 - 1
Last Sighting	Jun 9 - 2	May 15 - 14	Sep 29 - 6	Sep 30 - 6
Peak Day	May 9 - **65**	May 13 - **40**	Sep 26 - **60**	Sep 27 - **19**
# of Days Sighted	47	20	29	29

Bufflehead:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	May 2 - 7	May 3 - 1	Aug 8 - 1	Jun 13 - 1
Last Sighting	Jun 1 - 1	May 15 - 3	Sep 29 - 30	Sep 30 - 7
Peak Day	May 6&9 - **8**	May 10 - **5**	Sep 28 - **32**	Sep 18 - **59**
# of Days Sighted	13	9	12	16

Common Merganser:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	Apr 23 - 6	Apr 23 - 2	Jul 15 - 3	Jun 12 - 1
Last Sighting	Jun 8 - 41	May 15 - 2	Sep 29 - 2	Sep 30 - 1
Peak Day	May 31 - **49**	May 2 - **21**	Jul 18 - **32**	Jun 18 - **7**
# of Days Sighted	41	19	53	48

Red-breasted Merganser:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	Apr 28 - 1	May 6 - 4		
Last Sighting	Jun 7 - 6	May 15 - 2		
Peak Day	May 9 - **47**	May 10 - **8**		
# of Days Sighted	17	8	0	0

Osprey:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	May 4 - **1**		Jul 18 - 1	Jul 13- 1
Last Sighting	May 29 - **1**		Sep - 5	Aug 23 - 1
Peak Day			Aug 2 - **3**	Aug 1 - **5**
# of Days Sighted	2	0	19	15

Bald Eagle:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	Apr 24 - 1	Apr 22 - 1	Jul 12 - 1	Jul 12 - 2
Last Sighting	Jun 10 - 2	May 15 - 2	Sep 29 - 3	Sep 30 - **5**
Peak Day	May 18 - **4**	May 14 - **4**	Sep 7&12 - **5**	5 dates - **5**
# of Days Sighted	41	24	78	77

Northern Harrier:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	Apr 23 - 4	Apr 22 - 5	Jul 29 - 1	Aug 7 - 1
Last Sighting	May 21 - 2	May 15 - 2	Sep 27 - 4	Sep 30 - 1
Peak Day	Apr 24 - **21**	May 2 - **19**	Sep 8&27 - **4**	3 dates - **3**
# of Days Sighted	22	19	21	23

Sharp-shinned Hawk:

	Spring 2012	**Spring 2011**	**Fall 2012**	**Fall 2011**
First sighting	Apr 24 - 1	Apr 22 - 1	Jul 22 - 1	Jul 26 - 1
Last Sighting	Jun 7 - 1	May 15 - 1	Sep 27 - 4	Sep 30 - 3
Peak Day	3 dates - **2**	Apr 28 - **8**	Sep 8 - **25**	Sep 3 - **19**
# of Days Sighted	13	18	46	48

Cooper's Hawk:

	Spring 2012	**Spring 2011**	**Fall 2012**	**Fall 2011**
First sighting	May 7 - **1**			
Last Sighting				
Peak Day				
# of Days Sighted	1	0	0	0

Northern Goshawk:

	Spring 2012	**Spring 2011**	**Fall 2012**	**Fall 2011**
First sighting	May 6 - **1**	May 9 - **1**	Aug 1 - 1	Aug 29 - 1
Last Sighting		May 12 - **1**	Sep 19 - 1	Sep 21 - 1
Peak Day			All dates - **1**	All dates - **1**
# of Days Sighted	1	2	8	7

Broad-winged Hawk:

	Spring 2012	**Spring 2011**	**Fall 2012**	**Fall 2011**
First sighting	May 15 - **2**	Apr 25 - **1**	Aug 15 - **1**	
Last Sighting	May 29 - 1	May 12 - **1**	Aug 27 - **1**	
Peak Day				
# of Days Sighted	4	2	2	0

Red-tailed Hawk:

	Spring 2012	**Spring 2011**	**Fall 2012**	**Fall 2011**
First sighting	Apr 23 - 2	Apr 25 - 1	Aug 22 - 1	Jul 13 - 1
Last Sighting	May 6 - 1	May 13 - 1	Sep 7 - 1	Sep 3 - 1
Peak Day	Apr 30 - **3**	All dates - **1**	All dates - **1**	All dates - **1**
# of Days Sighted	4	4	4	3

Rough-legged Hawk:

	Spring 2012	**Spring 2011**	**Fall 2012**	**Fall 2011**
First sighting	Apr 25 - 1	Apr 25 - **1**	Sep 17 - **1**	
Last Sighting	May 12 - 1			
Peak Day	All dates - **1**			
# of Days Sighted	5	1	1	0

American Kestrel:

	Spring 2012	**Spring 2011**	**Fall 2012**	**Fall 2011**
First sighting	Apr 29 - 1	Apr 22 - 1	Aug 26 - 1	
Last Sighting	May 17 - 1	May 13 - 1	Sep 15 - 1	
Peak Day	All dates - **1**	All dates - **1**	Sep 8&9 - **2**	
# of Days Sighted	4	4	4	0

Merlin:

	Spring 2012	**Spring 2011**	**Fall 2012**	**Fall 2011**
First sighting	Apr 23 - 1	Apr 22 - 1	Jul 14 - 1	Jul 15 - 1
Last Sighting	Jun 10 - 2	May 14 - 1	Sep 28 - 1	Sep 25 - 1
Peak Day	Apr29& Jun10- **2**	Apr 27 - **3**	Aug 1 - **4**	Aug 10&24 - **3**
# of Days Sighted	22	22	42	38

Peregrine Falcon:

	Spring 2012	**Spring 2011**	**Fall 2012**	**Fall 2011**
First sighting	Apr 24 - 1	Apr 25 - 1	Sep 21 - **1**	
Last Sighting	May 15 - **2**	May 12 - 1		
Peak Day		All dates - **1**		
# of Days Sighted	5	5	1	0

Ruffed Grouse:

	Spring 2012	**Spring 2011**	**Fall 2012**	**Fall 2011**
First sighting	23 Apr - 1	Apr 23 - 1	Sep 1 - 1	Jul 13 - 1
Last Sighting	Jun 8 - 1	May 14 - 2	Sep 28 - 1	Sep 28 - 1
Peak Day	Apr 24 - **3**	3 dates - **2**	Sep 18 - **3**	3 dates - **2**
# of Days Sighted	38	11	18	10

Sora:

	Spring 2012	**Spring 2011**	**Fall 2012**	**Fall 2011**
First sighting	May 29 - **1**			
Last Sighting				
Peak Day				
# of Days Sighted	1	0	0	0

Sandhill Crane:

	Spring 2012	**Spring 2011**	**Fall 2012**	**Fall 2011**
First sighting	Apr 23 - 80	Apr 24 - 8	Sep 1 - 13	Jul 26 - 2
Last Sighting	May 8 - **330**	May 13 - 4	Sep 26 - 4	Sep 8 - **100**
Peak Day		May 2 - **280**	Sep 16 - **160**	
# of Days Sighted	5	12	7	3

Semipalmated Plover:

	Spring 2012	**Spring 2011**	**Fall 2012**	**Fall 2011**
First sighting	May 13 - **2**	May 9 - **1**		
Last Sighting	May 14 - **2**			
Peak Day				
# of Days Sighted	2	1	0	0

Killdeer:

	Spring 2012	**Spring 2011**	**Fall 2012**	**Fall 2011**
First sighting	Apr 24 - 2	Apr 26 - 1		
Last Sighting	May 30 - 1	May 13 - 2		
Peak Day	May 12 - **4**	May 7&13 - **2**		
# of Days Sighted	10	10	0	0

American Avocet:

	Spring 2012	**Spring 2011**	**Fall 2012**	**Fall 2011**
First sighting	May 6 - **2**			
Last Sighting				
Peak Day				
# of Days Sighted	0	0	0	0

Greater Yellowlegs:

	Spring 2012	**Spring 2011**	**Fall 2012**	**Fall 2011**
First sighting	Apr 23 - 1	Apr 26 - 1	Aug 5 - 1	Jul 13 - 1
Last Sighting	May 22 - 1	May 13 - 2	Sep 24 - 1	Sep 25 - 1
Peak Day	May 14 - **245**	May 3 - **28**	Aug20&Sep19-**2**	All dates - **1**
# of Days Sighted	17	15	7	5

Lesser Yellowlegs:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	May 13 - **2**	May 3 - **45**		
Last Sighting	May 14 - 1			
Peak Day				
# of Days Sighted	2	1	0	0

Solitary Sandpiper:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	May 14 - **1**			
Last Sighting				
Peak Day				
# of Days Sighted	1	0	0	0

Spotted Sandpiper:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	May 5 - 1	May 6 - 4	Jul 12 - 1	Jul 13 - 3
Last Sighting	Jun 10 - 2	May 14 - 1	Sep 9 - 3	Sep 3 - 4
Peak Day	May 16 - **46**	May 13 - **25**	Aug 15 - **7**	Aug 11 - **8**
# of Days Sighted	35	6	39	32

Long-billed Curlew:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	May 14 - **1**			
Last Sighting				
Peak Day				
# of Days Sighted	0	0	0	0

Upland Sandpiper:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting			Aug 21 - **1**	
Last Sighting				
Peak Day				
# of Days Sighted	0	0	0	0

Least Sandpiper:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	May 14 - **1**			
Last Sighting				
Peak Day				
# of Days Sighted	1	0	0	0

Baird's Sandpiper:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting			Sep 6 - **40**	
Last Sighting				
Peak Day				
# of Days Sighted	0	0	1	0

Pectoral Sandpiper:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting			Jul 28- **1**	
Last Sighting				
Peak Day				
# of Days Sighted	0	0	1	0

Long-billed Dowitcher:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	May 14 - **70**			
Last Sighting	May 15 - 7**0**			
Peak Day				
# of Days Sighted	2	0	0	0

Common Snipe:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	Apr 24 - 1	Apr 26 - 1		
Last Sighting	May 14 0 1	May 9 - 1		
Peak Day	Apr 29 - **2**	All dates - **1**		
# of Days Sighted	5	7	0	0

Bonaparte's Gull:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	May 5 - 4	May 13 - **51**	Sep 11 - **1**	
Last Sighting	May 14 - 5	May 15 - 1		
Peak Day	May 12 - **25**			
# of Days Sighted	4	2	1	0

Franklin's Gull:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	Apr 23 - 5	Apr 26 - 25	Jul 12 - 11	Jul 13 - 1
Last Sighting	May 29 - 11	May 15 - 74	Sep 13 - 1	Aug 28 - 15
Peak Day	May 14 - **180**	May 13 - **404**	Aug 2 - **5325**	Aug 7 - **318**
# of Days Sighted	29	15	32	19

Mew Gull:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	Apr 29 - 3	Apr 24 - 1		
Last Sighting	May 14 - 5	May 15 - 1		
Peak Day	May 13 - **10**	May 13 - **40**		
# of Days Sighted	10	9	0	0

Ring-billed Gull:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	Apr 29 - 26	Apr 26 - 3	Jul 14 - 2	Jul 16 - 16
Last Sighting	Jun 3 - 1	May 15 - 3	Sep 29 - 4	Sep 24 - 1
Peak Day	May 9 - **40**	May 2 - **18**	Jul 31 - **162**	Aug 15 - **151**
# of Days Sighted	14	12	52	27

California Gull:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting		May 2 - **2**	Aug 9 - 1	Jul 25 - **1**
Last Sighting		May 13 - **2**	Sep 27 - 1	
Peak Day			Sep 3 - **2**	
# of Days Sighted	0	2	7	1

Herring Gull:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	Apr 24 - 2	May 4 - 2	Jul 17 - 1	Jul 20 - 3
Last Sighting	May 22 - 1	May 15 - 4	Sep 29 - 2	Sep 27 - 5
Peak Day	May 5 - **9**	May 13 - **52**	Aug 25 - **18**	Sep 17 - 7
# of Days Sighted	18	10	27	18

Caspian Tern:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	May 17 - **1**			
Last Sighting				
Peak Day				
# of Days Sighted	1	0	0	0

Common Tern:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	May 7 - 1	May 12 - 2	Jul 14 - **4**	Jul 13 - 3
Last Sighting	Jun 9 - 1	May 14 - 1	Sep 15 - 3	Aug 28 - 3
Peak Day	May 23 - **9**	May 12&13 - **2**		3 dates - **3**
# of Days Sighted	19	3	3	8

Forster's Tern:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting		May 13 - **1**	Aug 27 - **6**	
Last Sighting				
Peak Day				
# of Days Sighted	0	1	1	0

Mourning Dove:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	May 30 - 1	May 12 - **1**		
Last Sighting	Jun 5 - 1			
Peak Day	All dates - **1**			
# of Days Sighted	3	1	0	0

Long-eared Owl:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	May 5 - **1**			
Last Sighting				
Peak Day				
# of Days Sighted	1	0	0	0

Barred Owl:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	Apr 29 - **1**		Sep 19 - **1**	
Last Sighting				
Peak Day				
# of Days Sighted	1	0	1	0

Common Nighthawk:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	Jun 4 - **1**			Aug 29 - **1**
Last Sighting				
Peak Day				
# of Days Sighted	1	0	0	1

Ruby-throated Hummingbird:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	Jun 2 - **3**			Jul 13 - 1
Last Sighting				Aug 21 - 1
Peak Day				All dates - **1**
# of Days Sighted	1	0	0	3

Belted Kingfisher:

	Spring 2012	**Spring 2011**	**Fall 2012**	**Fall 2011**
First sighting	23 Apr - 1	Apr 27 - 1	Jul 16 - 1	Jul 12 - 1
Last Sighting	Jun 8 - 1	May 13 - 1	Sep 19 - 1	Sep 25 - 1
Peak Day	Apr30&May 1 - **2**	May 9 - **5**	Aug 20 - **3**	All dates - **1**
# of Days Sighted	20	11	24	16

Yellow-bellied Sapsucker:

	Spring 2012	**Spring 2011**	**Fall 2012**	**Fall 2011**
First sighting	Apr 24 - 3	May 2 - 1	Aug 16 - **1**	Jul 13 - 2
Last Sighting	May 31 - 1	May 15 - 1		Sep 11 - 1
Peak Day	3 Dates - **4**	May 12 - **5**		Jul 15 - **3**
# of Days Sighted	28	14	1	7

Downy Woodpecker:

	Spring 2012	**Spring 2011**	**Fall 2012**	**Fall 2011**
First sighting	Apr 29 - 1	May 9 - **1**	Jul 16 - 1	Jul 19 - 1
Last Sighting	May 15 - 1	May 11 - **1**	Sep 28 - 1	Sep 24 - 1
Peak Day	All dates - **1**		Sep 15&23 - **2**	Sep 21 - **2**
# of Days Sighted	6	2	15	14

Hairy Woodpecker:

	Spring 2012	**Spring 2011**	**Fall 2012**	**Fall 2011**
First sighting	May 5 - 1	May 2 - 1	Jul 12 - 1	Jul 17 - **2**
Last Sighting	Jun 5 - 1	May 15 - 1	Sep 27 - 1	Sep 27 - 1
Peak Day	All dates - **1**	All dates - **1**	Jul 16 - **3**	
# of Days Sighted	8	3	26	19

Northern Flicker:

	Spring 2012	**Spring 2011**	**Fall 2012**	**Fall 2011**
First sighting	Apr 23 - 26	Apr 25 - 5	Jul 13 - 1	Jul 17 - 1
Last Sighting	Jun 8 - 1	May 15 - 1	Sep 24 - 1	Sep 21 - 1
Peak Day	Apr 29 - **86**	May 2 - **29**	Aug 3 - **3**	Sep 8 - **2**
# of Days Sighted	41	21	20	12

Three-toed Woodpecker:

	Spring 2012	**Spring 2011**	**Fall 2012**	**Fall 2011**
First sighting	Apr 30 - **1**			
Last Sighting				
Peak Day				
# of Days Sighted	1	0	0	0

Pileated Woodpecker:

	Spring 2012	**Spring 2011**	**Fall 2012**	**Fall 2011**
First sighting	Apr 23 - 1	Apr 22 - 1	Jul 14 - 1	Jul 30 - 1
Last Sighting	May 30 - 1	May 6 - 2	Sep 23 - 1	Sep 27 - 1
Peak Day	May 24 - **2**	May 2&6 - **2**	Sep 9 - **2**	Aug 11&22 - **2**
# of Days Sighted	10	8	11	18

Western Wood-pewee:

	Spring 2012	**Spring 2011**	**Fall 2012**	**Fall 2011**
First sighting	May 20 - 1		Jul 21 - **1**	Jul 17 - 1
Last Sighting	Jun 8 - 1		Aug 6 - **1**	Sep 23 - 1
Peak Day	All dates - **1**			All dates - **1**
# of Day Sighted	4	0	2	6

Yellow-bellied Flycatcher:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	May 25 - **1**			
Last Sighting				
Peak Day				
# of Days Sighted	1	0	0	0

Alder Flycatcher:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	May 21 - 6		Jul 12 - 2	Jul 12 - 1
Last Sighting	Jun 10 - 2		Aug 31 - 2	Sep 15 - 1
Peak Day	May21&Jun4- **6**		Aug 14&15 - **5**	Jun26,Aug10 - **4**
# of Days Sighted	17	0	25	25

Least Flycatcher:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	May 7 - 1	May 8 - 1	Jul 12 - 1	Jul 13 - 1
Last Sighting	Jun 8 - 2	May 15 - 3	Sep 6 - 2	Sep 8 - 1
Peak Day	May 13&12- **28**	May 13 - **11**	Jul25&Aug4 - **7**	Aug 8 - **5**
# of Days Sighted	18	6	36	36

Eastern Phoebe:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	Apr 25 - 1	Apr 22 - 1	Jul 26 - 1	Jul 12 - 1
Last Sighting	Jun 3 - 1	May 13 - 1	Sep 7 - 1	Aug 20 - 1
Peak Day	Apr29&May1 - **3**	May 3 - **4**	Aug 20 - **2**	All dates - **1**
# of Days Sighted	22	17	8	3

Say's Phoebe:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	May 5 - 1	May 3 - 1	Aug 20 - **2**	Aug 26 - **1**
Last Sighting	May 18 - 1	May 13 - **5**		
Peak Day	May 13 - **21**			
# of Days Sighted	10	3	1	1

Eastern Kingbird:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	May 16 - 2	May 11 - **5**	Jul 18 - 1	Aug 3 - 1
Last Sighting	Jun 3 - **8**		Aug 27 - 6	Sep 15 - 5
Peak Day			Aug 20 - **29**	Aug 24 - **24**
# of Days Sighted	5	1	8	13

Blue-headed Vireo:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	May 9 - 2		Jul 18 - 1	Jul 18 - 1
Last Sighting	May 23 - 1		Sep 23 - 1	Sep 4 - 1
Peak Day	4 dates - **2**		All dates - **1**	Aug 20 - **2**
# of Days Sighted	13	0	9	6

Warbling Vireo:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	May 12 - 1		Aug 4 - **2**	Aug 26 - 1
Last Sighting	May 29 - 1		Aug 27 - 1	Sep 1 - 1
Peak Day	All dates - **1**			All dates - **1**
# of Days Sighted	5	0	4	4

Philadelphia Vireo:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	May 20 - 1		Jul 20 - 1	Jul 12 - **4**
Last Sighting	Jun 9 - 1		Aug 31 - 3	Sep 8 - 1
Peak Day	All dates - **1**		Aug 3 & 31 - **3**	
# of Days Sighted	9	0	18	6

Red-eyed Vireo:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	May 20 - 1		Jul 21 - 5	Jul 12 - 3
Last Sighting	Jun 10 - 6		Sep 13 - 1	Sep 6 - 2
Peak Day	Jun 4&7 - **7**		Aug 7 - **11**	Aug 13 - **8**
# of Days Sighted	21	0	45	39

Gray Jay:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	May 31- 1		Sep 21 - 1	
Last Sighting	Jun 4 - **2**			
Peak Day				
# of Days Sighted	3	0	1	0

Blue Jay:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	Apr 28 - 1	Apr 23 - **3**	Jul 13 - 1	Jul 17 - 3
Last Sighting	Jun 8 - 1	May 15 - 1	Sep 26 - 1	Sep 30 - 1
Peak Day	May 14 - **3**		6 dates - **2**	Sep 3 - **6**
# of Days Sighted	17	5	35	42

American Magpie:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	Apr 23 - 1	Apr 22 - 4	Jul 12 - 1	Aug 5 - 1
Last Sighting	Jun 9 - 1	May 15 - 1	Sep 26 - 2	Sep 30 - 1
Peak Day	3 dates - **2**	Apr 24 - **8**	Sep 1 - **13**	Sep 24 - **4**
# of Day Sighted	25	24	51	21

American Crow:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	Apr 23 - 3	Apr 22 - 3	Jul 12 - 5	Jul 12 - 2
Last Sighting	Jun 10 - 2	May 15 - 10	Sep 16 - 3	Sep 23 - 3
Peak Day	Apr 28 - **18**	May 6 - **18**	Aug 18 - **40**	Aug 16&21 - **15**
# of Days Sighted	48	24	55	50

Common Raven:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	Apr 23 - 11	Apr 22 - 2	Jul 14 - 1	Jul 15 - 2
Last Sighting	Jun 2 - 2	May 15 - 1	Sep 29 - 8	Sep 30 - 4
Peak Day	Apr23&May12-**11**	May 3 - **10**	Sep 25 - **13**	Sep 22 - **88**
# of Days Sighted	26	23	65	67

Tree Swallow:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	Apr 29 - 30	Apr 27 - 4	Jul 12 - 1	Jul 13 - **65**
Last Sighting	Jun 10 - 2	May 14 - 4	Aug 13 - **40**	Aug 20 - 9
Peak Day	May 13 - **478**	May 1 - **78**		
# of Days Sighted	30	18	16	15

Bank Swallow:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	May 13 - 3		Jul 17 - 11	
Last Sighting	May 22 - 3		Sep 6 - 2	
Peak Day	May 16 - **294**		Aug 27 - **14**	
# of Days Sighted	5	0	4	0

Cliff Swallow:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	May 13 - 5		Aug 21 - **2**	Jul 15 - 2
Last Sighting	May 25 - 14			Aug 12 - **3**
Peak Day	May 17 - **88**			
# of Days Sighted	5	0	1	2

Barn Swallow:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	May 13 - **2**		Aug 13 - **1**	Jul 15 - 2
Last Sighting	Jun 3 - **2**			Aug 12 - **3**
Peak Day				
# of Days Sighted	4	0	1	2

Black-capped Chickadee:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	Apr 23 - **5**	Apr 22 - 2	Jul 12 - 4	Jul 12 - 1
Last Sighting	Jun 9 - 2	May 15 - 2	Sep 29 - 4	Sep 30 - 4
Peak Day		4 dates - **4**	Sep 21 - **22**	Sep 18 - **12**
# of Days Sighted	36	21	70	68

Boreal Chickadee:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting		Apr 26 - **1**	Sep 5 - 1	Jul 15 - 1
Last Sighting			Sep 28 - 1	Sep 20 - **2**
Peak Day			Sep 26 - **2**	
# of Days Sighted	0	1	10	8

Red-breasted Nuthatch:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	Apr 29 - 1	Apr 26 - 1	Jul 12 - 1	Jul 12 - 1
Last Sighting	Jun 8 - 1	May 15 - 1	Sep 27 - 1	Sep 30 - 4
Peak Day	All dates - **1**	All dates - **1**	Aug 18 - **13**	Sep 6&8 - **5**
# of Days Sighted	10	8	42	36

White-breasted Nuthatch:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	May 2 - **1**		Sep 6 - 1	Aug 26 - **2**
Last Sighting	May 22 - **1**		Sep 27 - 1	
Peak Day			Sep 23 - **2**	
# of Days Sighted	2	0	7	1

Brown Creeper:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	Apr 24 - 1	May 4 - 1	Jul 13 - 1	Aug 8 - 1
Last Sighting	May 3 - 1	May 11 - 1	Sep 27 - 1	Sep 21 - 1
Peak Day	All dates - **1**	All dates - **1**	Sep 23 - **5**	All dates - **1**
# of Days Sighted	7	5	11	4

House Wren:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	May 18 - **1**		Sep 21 - **1**	
Last Sighting	May 31 - **1**			
Peak Day				
# of Days Sighted	2	0	1	0

Winter Wren:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	Apr 23 - 2	Apr 25 - 1	Sep 22 - **1**	Jul 13 - **2**
Last Sighting	May 30 - 1	May 15 - 1		Aug 11 - 1
Peak Day	7 dates - **2**	5 dates - **2**		
# of Days Sighted	34	12	1	4

Golden-crowned Kinglet:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting			Sep 15 - 1	Jul 26 - **1**
Last Sighting			Sep 29 - 1	Sep 20 - **1**
Peak Day			Sep 26 - **3**	
# of Days Sighted	0	0	7	2

Ruby-crowned Kinglet:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	Apr 24 - 2	Apr 25 - 3	Jul 13 - 1	Jul 12 - 1
Last Sighting	Jun 4 - 1	May 15 - 1	Sep 29 - 1	Sep 30 - 1
Peak Day	Apr 29 - **5**	3 dates - **4**	Sep 23 - **18**	Sep 9 - **6**
# of Days Sighted	38	18	31	20

Townsend's Solitaire:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting			Sep 24 - **1**	Sep 27 - **1**
Last Sighting				
Peak Day				
# of Days Sighted	0	0	1	1

Varied Thrush:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting			Sep 23 - **1**	
Last Sighting				
Peak Day				
# of Days Sighted	0	0	1	0

Gray-cheeked Thrush:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	May 9 - 2		Sep 4 - 1	
Last Sighting	May 27 - 1		Sep 23 - 1	
Peak Day	May 19 - **33**		Sep 17 - **3**	
# of Days Sighted	7	0	5	0

Swainson's Thrush:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	May 2 - 1	May 7 - 1	Jul 12 - 1	Jul 12 - 3
Last Sighting	Jun 10 - 1	May 14 - 3	Sep 17 - 1	Sep 18 - 1
Peak Day	May 19 - **596**	May 13 - **12**	Jul30&Aug16- **13**	Aug 4 - **14**
# of Days Sighted	33	5	56	62

Hermit Thrush:

	Spring 2012	**Spring 2011**	**Fall 2012**	**Fall 2011**
First sighting	Apr 23 - 2	Apr 26 - 2	Jul 16 - 1	Jul 12 - 1
Last Sighting	May 31 - 1	May 15 - 1	Sep 28 - 1	Sep 23 - 1
Peak Day	May 12 - **8**	May 5 - **8**	3 dates - **6**	Sep 21 - **2**
# of Days Sighted	20	17	17	11

American Robin:

	Spring 2012	**Spring 2011**	**Fall 2012**	**Fall 2011**
First sighting	Apr 23 - 227	Apr 22 - 363	Jul 13 - 3	Jul 13 - 6
Last Sighting	Jun 10 - 3	May 15 - 2	Sep 28 - 3	Sep 30 - 1
Peak Day	Apr 29 - **2173**	Apr 27 - **1903**	Aug 20 - **10**	Sep 25 - **93**
# of Days Sighted	48	24	48	37

Gray Catbird:

	Spring 2012	**Spring 2011**	**Fall 2012**	**Fall 2011**
First sighting	May 26 - **1**		Aug 20 - **1**	
Last Sighting				
Peak Day				
# of Days Sighted	0	0	0	0

European Starling:

	Spring 2012	**Spring 2011**	**Fall 2012**	**Fall 2011**
First sighting	Apr 24 - **51**	Apr 24 - 4	Sep 7 - **3**	
Last Sighting	May 22 - 3	May 15 - 3		
Peak Day		May 3 - **11**		
# of Days Sighted	11	15	1	0

American Pipit:

	Spring 2012	**Spring 2011**	**Fall 2012**	**Fall 2011**
First sighting	Apr 23 - 1	Apr 28 - 49	Aug 3 - 1	Aug 20 - 1
Last Sighting	May 22 - 1	May 15 - 6	Sep 28 - 1	Sep 30 - 1
Peak Day	Apr 29 - **95**	May 3 - **228**	Sep 13 - **60**	Aug 26 - **35**
# of Days Sighted	23	18	30	32

Cedar Waxwing:

	Spring 2012	**Spring 2011**	**Fall 2012**	**Fall 2011**
First sighting	May 25 - 8		Jul 12 - 5	Jul 12 - 18
Last Sighting	Jun 10 - 4		Sep 18 - 2	Sep 29 - 3
Peak Day	May 31 - **331**		Aug 20 - **127**	Sep 9 - **109**
# of Days Sighted	16	0	63	74

Tennessee Warbler:

	Spring 2012	**Spring 2011**	**Fall 2012**	**Fall 2011**
First sighting	May 9 - 2		Jul 12 - 4	Jul 12 - 3
Last Sighting	Jun 8 - 1		Sep 16 - 2	Sep 27 - 1
Peak Day	May 25 - **198**		Aug 6 - **303**	Aug 11 - **201**
# of Days Sighted	22	0	45	46

Orange-crowned Warbler:

	Spring 2012	**Spring 2011**	**Fall 2012**	**Fall 2011**
First sighting	Apr 23 - 4	Apr 27 - 1	Aug 21 - 1	Jul 18 - 1
Last Sighting	May 21 - 1	May 13 - **79**	Sep 27 - 1	Sep 30 - 2
Peak Day	May 10 - **23**		Sep 13 - **46**	Sep 9 - **52**
# of Days Sighted	20	11	22	25

Nashville Warbler:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	May 21 - **1**			
Last Sighting				
Peak Day				
# of Days Sighted	1	0	0	0

Yellow Warbler:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	May 5 - 1	May 10 - 8	Jul 12 - 6	Jul 12 - 8
Last Sighting	Jun 10 - 2	May 13 - **240**	Sep 13 - 2	Aug 29 - 11
Peak Day	May 16 - **405**		Jul 23 - **71**	Aug 11 - **32**
# of Days Sighted	37	4	49	41

Magnolia Warbler:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	May 16 - 4	May 10 - **1**	Jul 20 - 1	Jul 12 - 1
Last Sighting	Jun 10 - 1		Sep 9 - 1	Sep 9 - 1
Peak Day	May 21 - **7**		Aug 5&20 - **3**	3 dates - **2**
# of Days Sighted	11	1	25	22

Cape May Warbler:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	May 21 - **1**		Jul 23 - 1	Aug 4 - 2
Last Sighting	May 25 - **1**		Aug 19 - 1	Sep 5 - 1
Peak Day			Aug 4 - **6**	Aug 14 - **4**
# of Days Sighted	2	0	9	10

Yellow-rumped Warbler:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	Apr 23 - 15	Apr 22 - 74	Jul 12 - 10	Jul 12 - 35
Last Sighting	Jun 10 - 1	May 15 - 52	Sep 28 - 3	Sep 30 - 25
Peak Day	Apr 29 - **4804**	May 13 - **2503**	Sep 9 - **2215**	Aug 11 - **1101**
# of Days Sighted	49	24	66	72

Black-throated Green Warbler:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	May 10 - 1	May 9 - 1	Jul 13 - 1	Jul 17 - 1
Last Sighting	Jun 8 - 1	May 13 - 1	Aug 17 - 1	Aug 26 - 1
Peak Day	All dates - **1**	All dates - **1**	Jul 23&Aug 5 - **3**	Jul 21&24 - **2**
# of Days Sighted	10	3	6	9

Palm Warbler:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	**Apr 29 - 1**	May 12 - **3**	Jul 27 - 2	Jul 19 - 1
Last Sighting	May 26 - 1	May 13 - 1	Sep 27 - 1	Sep 20 - 1
Peak Day	May 14 - **16**		Sep 21 - **4**	All dates - **1**
# of Days Sighted	14	2	10	4

Bay-breasted Warbler:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	May 25 - **1**		Jul 24 - 1	Jul 31 - 1
Last Sighting			Aug 1 - **2**	Aug 24 - 1
Peak Day				Aug 20 - **2**
# of Days Sighted	1	0	3	6

Blackpoll Warbler:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	May 9 - 2	May 13 - **5**	Aug 4 - 1	Jul 24 - 1
Last Sighting	May 28 - 1		Sep 1 - 1	Sep 21 - 1
Peak Day	May 18 - **24**		Aug 22 - **3**	Aug 29 - **2**
# of Days Sighted	8	1	7	3

Black-and-white Warbler:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	May 1 - 1	May 7 - 1	Jul 12 - 5	Jul 12 - 7
Last Sighting	Jun 10 - 2	May 15 - 5	Aug 31 - 2	Sep 8 - 1
Peak Day	May 9 - **19**	May 11 - **11**	Jul 23 - **32**	Aug 11 - **61**
# of Days Sighted	37	9	40	41

American Redstart:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	May 15 - 6		Jul 12 - 3	Jul 12 - 7
Last Sighting	Jun 10 - 11		Sep 14 - 1	Sep 15 - 1
Peak Day	May 21 - **167**		Aug 3 - **54**	Aug 5 - **41**
# of Days Sighted	27	0	47	51

Ovenbird:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	May 5 - 2	May 10 - 2	Jul 12 - 4	Jul 12 - 2
Last Sighting	Jun 10 - 4	May 15 - 3	Sep 17 - 1	Sep 10 - 2
Peak Day	3 dates - **9**	3 dates - **3**	Aug 5 - **26**	Aug 4 - **14**
# of Days Sighted	35	6	43	45

Northern Waterthrush:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	May 7 - 1	May 11 - 1	Jul 13 - 1	Jul 12 - 1
Last Sighting	Jun 9 - 1	May 14 - 1	Aug 31 - 1	Aug 28 - 1
Peak Day	May 14&19 - **4**	May 13 - **2**	3 dates - **2**	Jul 26 - **3**
# of Days Sighted	16	3	17	14

Connecticut Warbler:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	May 23 - **1**	May 10 - **1**		
Last Sighting				
Peak Day				
# of Days Sighted	1	1	0	0

Mourning Warbler:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	May 21 - 1		Jul 30 - 1	Jul 13 - 1
Last Sighting	Jun 8 - 1		Sep 5 - 2	Sep 5 - 1
Peak Day	Jun 5 - **4**		Aug 3&16 - **7**	3 dates - **3**
# of Days Sighted	12	0	24	13

Common Yellowthroat:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	May 18 - 3		Jul 12 - 1	Jul 12 - 1
Last Sighting	Jun 9 - 1		Sep 15 - 1	Sep 3 - 1
Peak Day	May 19 - **8**		3 dates - **4**	Aug 29 - **4**
# of Days Sighted	15	0	27	18

Wilson's Warbler:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	May 19 - 2		Aug 3 - 1	Aug 11 - 2
Last Sighting	May 27 - 2		Sep 16 - 1	Sep 12 - 1
Peak Day	May 25 - **4**		Sep 4 - **4**	Sep 6 - **8**
# of Days Sighted	4	0	17	14

Canada Warbler:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	May 16 - 6		Jul 12 - 1	Jul 12 - 1
Last Sighting	Jun 10 - 3		Aug 26 - 1	Aug 24 - 1
Peak Day	May 26&27- **14**		Aug 6 - **20**	Aug 11 - **26**
# of Days Sighted	25	0	37	36

Western Tanager:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	May 12 - 2	May 10 - 1	Jul 12 - 1	Jul 15 - 3
Last Sighting	Jun 4 - 1		Aug 31 - 2	Sep 7 - 1
Peak Day	May 13 - **5**		Aug 3 - **13**	Jul 21 - **20**
# of Days Sighted	18	1	24	19

American Tree Sparrow:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	Apr 23 - 42	Apr 22 - 5	Sep 13 - 1	Sep 4 - **1**
Last Sighting	May 1 - 4	May 10 - 1	Sep 28 - 4	Sep 25 - **1**
Peak Day	Apr 29 - **871**	May 3 - **464**	Sep 23 - **35**	
# of Days Sighted	9	16	13	2

Chipping Sparrow:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	May 2 - 1	May 7 - 1	Jul 12 - 1	Jul 12 - 1
Last Sighting	Jun 10 - 2	May 15 - 126	Aug 12 - 5	Sep 7 - 1
Peak Day	May 16 - **992**	May 13 - **4862**	Jul 20 - **20**	Aug 29 - **4**
# of Days Sighted	37	7	32	9

Clay-colored Sparrow:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	May 7 - 1	May 13 - **5**	Jul 23 - 1	Aug 12 - **1**
Last Sighting	Jun 9 - 1	May 15 - 1	Aug 31 - 1	Aug 28 - **1**
Peak Day	May 22 - **49**		Aug 12 - **3**	
# of Days Sighted	27	3	6	2

Savannah Sparrow:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	Apr 24 - 1	Apr 30 - 2	Aug 22 - 1	Aug 24 - 1
Last Sighting	May 20 - 1	May 14 - 1	Sep 9 - 1	Sep 13 - 1
Peak Day	May 12 - **8**	May 6 - **6**	Aug 31 - **4**	All dates - **1**
# of Days Sighted	18	11	9	4

Le Conte's Sparrow:

	Spring 2012	Spring 2011	Fall 2012	Fall 2011
First sighting	May 12 - **2**		Aug 23 - **1**	
Last Sighting	May 15 - 1			
Peak Day				
# of Days Sighted	2	0	1	0

Fox Sparrow:

	Spring 2012	**Spring 2011**	**Fall 2012**	**Fall 2011**
First sighting	Apr 23 - 5	Apr 26 - 3		Jul 18 - **1**
Last Sighting	Apr 29 - 3	Apr 30 - **33**		
Peak Day	Apr 24 - **7**			
# of Days Sighted	5	2	0	1

Song Sparrow:

	Spring 2012	**Spring 2011**	**Fall 2012**	**Fall 2011**
First sighting	Apr 23 - 2	Apr 26 - 1	Jul 12 - 6	Jul 12 - 4
Last Sighting	Jun 10 - 3	May 15 - 2	Aug 29 - 1	Sep 9 - 1
Peak Day	Apr 29&May2-**6**	May 13 - **8**	Jul 13 - **8**	Jul 26 - **6**
# of Days Sighted	49	20	31	39

Lincoln's Sparrow:

	Spring 2012	**Spring 2011**	**Fall 2012**	**Fall 2011**
First sighting	May 2 - 1	May 8 - 1	Jul 12 - 4	Jul 12 - 2
Last Sighting	Jun 10 - 1	May 15 - 1	Sep 26 - 1	Sep 23 - 1
Peak Day	May 8 - **5**	May 10 - **7**	Jul 20 - **5**	4 dates - **3**
# of Days Sighted	27	6	27	31

Swamp Sparrow:

	Spring 2012	**Spring 2011**	**Fall 2012**	**Fall 2011**
First sighting	May 13 - **1**		Jul 25 - 1	
Last Sighting			Sep 19 - 1	
Peak Day			All dates - **1**	
# of Days Sighted	1	0	5	0

White-throated Sparrow:

	Spring 2012	**Spring 2011**	**Fall 2012**	**Fall 2011**
First sighting	Apr 29 - 1	May 8 - 9	Jul 12 - 7	Jul 12 - 3
Last Sighting	Jun 10 - 5	May 15 - 16	Sep 28 - 2	Sep 16 - 1
Peak Day	May 9 - **29**	May 10 - **40**	Sep 5 - **10**	Jul 15 - **9**
# of Days Sighted	41	8	71	50

White-crowned Sparrow:

	Spring 2012	**Spring 2011**	**Fall 2012**	**Fall 2011**
First sighting	Apr 28 - 3	May 4 - **4**	Sep 1 - 1	Sep 9 - 1
Last Sighting	May 20 - 1	May 13 - **4**	Sep 24 - 1	Sep 25 - 2
Peak Day	May 13 - 36		Sep 14 - **11**	Sep 23 - **6**
# of Days Sighted	30	2	18	4

Dark-eyed Junco:

	Spring 2012	**Spring 2011**	**Fall 2012**	**Fall 2011**
First sighting	Apr 23 - 99	Apr 22 - 84	Aug 26 - 1	Jul 25 - 1
Last Sighting	May 9 - 2	May 14 - 3	Sep 29 - 2	Sep 30 - 2
Peak Day	Apr 24 - **1103**	May 3 - **1002**	Sep 23 - **167**	Sep 21 - **15**
# of Days Sighted	12	19	24	13

Lapland Longspur:

	Spring 2012	**Spring 2011**	**Fall 2012**	**Fall 2011**
First sighting	Apr 24 - 2	Apr 28 - 8	Aug 21 - 1	Aug 29 - 4
Last Sighting	May 16 - 7	May 13 - 55	Sep 26 - 1	Sep 29 - 1
Peak Day	May 14 - **30**	May 3 - **74**	Sep 6 - **13**	Sep 11 - **34**
# of Days Sighted	9	7	17	18

Snow Bunting:

	Spring 2012	**Spring 2011**	**Fall 2012**	**Fall 2011**
First sighting	Apr 23 - 2	Apr 23 - 1		
Last Sighting	Apr 25 - **7**	Apr 25 - 2		
Peak Day		Apr 24 - **3**		
# of Days Sighted	2	3	0	0

Rose-breasted Grosbeak:

	Spring 2012	**Spring 2011**	**Fall 2012**	**Fall 2011**
First sighting	May 9 - 2	May 15 - **1**	Jul 24 - 1	Jul 17 - 1
Last Sighting	Jun 7 - 1		Sep 6 - 1	Sep 5 - 1
Peak Day	May 21 - **14**		Aug 4 - **11**	Aug 11- **9**
# of Days Sighted	23	1	22	23

Western Meadowlark:

	Spring 2012	**Spring 2011**	**Fall 2012**	**Fall 2011**
First sighting	May 24 - **1**			
Last Sighting				
Peak Day				
# of Days Sighted	1	0	0	0

Red-winged Blackbird:

	Spring 2012	**Spring 2011**	**Fall 2012**	**Fall 2011**
First sighting	Apr 23 - 5	Apr 29 - 1	Jul 17 - 72	Jul 17 - **25**
Last Sighting	Jun 10 - 1	May 15 - 2	Aug 4 - 2	Aug 5 - 13
Peak Day	Apr 29 - **215**	May 13 - **56**	Jul 23 - **73**	
# of Days Sighted	35	16	10	4

Yellow-headed Blackbird:

	Spring 2012	**Spring 2011**	**Fall 2012**	**Fall 2011**
First sighting	Apr 29 - 3	May 10 - **7**	Jul 27 - **1**	Aug 11 - **1**
Last Sighting	May 13 - **4**			
Peak Day				
# of Days Sighted	2	1	1	1

Common Grackle:

	Spring 2012	**Spring 2011**	**Fall 2012**	**Fall 2011**
First sighting	Apr 23 - 10	Apr 22 - 2	Jul 26 - **10**	Aug 3 - 1
Last Sighting	Jun 7 - 1	May 13 - 2	Sep 19 - 1	Sep 21 - 12
Peak Day	Apr 24 - **67**	Apr 27 - **47**		Aug 24 - **39**
# of Days Sighted	20	11	15	13

Brown-headed Cowbird:

	Spring 2012	**Spring 2011**	**Fall 2012**	**Fall 2011**
First sighting	Apr 25 - **3**1	May 6 - 1		Jul 13 - 1
Last Sighting	Jun 5 - 1	May 15 - 1		Jul 18 - **4**
Peak Day		May 10 - **20**		
# of Days Sighted	25	10	0	2

Baltimore Oriole:

	Spring 2012	**Spring 2011**	**Fall 2012**	**Fall 2011**
First sighting	May 16 - **4**			Jul 21 - **1**
Last Sighting	May 22 - 1			Jul 22 - **1**
Peak Day				
# of Days Sighted	3	0	0	2

Purple Finch:

	Spring 2012	**Spring 2011**	**Fall 2012**	**Fall 2011**
First sighting	Apr 23 - 1	Apr 23 - 1	Jul 13 – 1	Jul 13 - 1
Last Sighting	Jun 8 - 1	May 15 - 2	Sep 21 - 1	Sep 13 - 1
Peak Day	Apr 29 - **17**	May 3 - **29**	Aug 20 - **17**	Aug 24 - **15**
# of Days Sighted	18	20	37	37

Red Crossbill:

	Spring 2012	**Spring 2011**	**Fall 2012**	**Fall 2011**
First sighting			**Aug 17 - 50**	
Last Sighting			Sep 24 - 1	
Peak Day				
# of Days Sighted	0	0	4	0

White-winged Crossbill:

	Spring 2012	**Spring 2011**	**Fall 2012**	**Fall 2011**
First sighting			Aug 3 - **33**	Jul 13 - 1
Last Sighting			Sep 27 - 1	Aug 27 - 14
Peak Day				Jul 24 - **70**
# of Days Sighted	0	0	24	29

Common Redpoll:

	Spring 2012	**Spring 2011**	**Fall 2012**	**Fall 2011**
First sighting	Apr 23 - 100	Apr 22 - 20	Aug 18 - **1**	
Last Sighting	May 3 - 5	May 13 - 6		
Peak Day	Apr 29 - **486**	Apr 24 - **27**		
# of Days Sighted	9	8	1	0

Pine Siskin:

	Spring 2012	**Spring 2011**	**Fall 2012**	**Fall 2011**
First sighting	Apr 27 - 4	Apr 22 - 30	Jul 12 - 28	Jul 12 - 79
Last Sighting	Jun 9 - 11	May 14 - 1	Sep 29 - 3	Sep 30 - 3
Peak Day	Jun 2 - **292**	May 3 - **100**	Aug 6 - **194**	Sep 7 - **187**
# of Days Sighted	33	14	61	55

American Goldfinch:

	Spring 2012	**Spring 2011**	**Fall 2012**	**Fall 2011**
First sighting	May 25 - 1			
Last Sighting	Jun 3 - 2			
Peak Day	3 dates - **2**			
# of Days Sighted	9	0	0	0

Evening Grosbeak:

	Spring 2012	**Spring 2011**	**Fall 2012**	**Fall 2011**
First sighting	Apr 23 - 7	Apr 22 - 1	Aug 24 - 2	Jul 15 - 5
Last Sighting	Jun 7 - 1	May 15 - 3	Sep 28 - 7	Sep 25 - 1
Peak Day	**May 4 - 50**	May 13 - **15**	Aug 6&Sep28-**7**	Jul 25 - **16**
# of Days Sighted	32	24	23	36