

Fall 2014 Bird Banding Summary
Metro Beach Banding Station
Lake St. Clair Metropark, Macomb County, Michigan



Allen Chartier
Banding Permit No. 23156

INTRODUCTION

The fall of 2014 was the tenth fall season of a renewed banding study, initially conducted from 1989-1999 by Ellie Cox (deceased in 2012). After a very wet summer season, most of the banding area was muddy with a few shallow puddles; the wettest it has ever been at the start of fall banding. That all changed after August 11, when southeastern Michigan set many records for rainfall in a single day, with totals ranging from 4-6 inches. At first, the banding area was changed little, but as the rain flowed from the marshes to the north, into Point Rosa Marsh, the area quickly reverted to conditions indistinguishable from the spring. That is, mud and water nearly everywhere, ranging from 4-8 inches deep. This had a noticeable negative impact on the vegetation density, ground cover, food availability, and bird abundance in the banding area. The positive aspect is that the hydrology of these marshes seems to be well on the way to being restored. Temperatures during all three months were near normal, while precipitation was above normal in August and September and near normal in October. Vegetation was only about waist high out in the field areas. Jewelweed (*Impatiens capensis*), an important nectar source for migrating hummingbirds, was 4-5 feet tall near the road, but in the flooded areas that covered most of the net lanes it was very sparse. Vegetation around the Field Nets consists mainly of dogwood (*Cornus* sp.) and the height and density of herbaceous vegetation in the surrounding area, and between this field and the nearby cattail (*Typhus* sp.) marsh is important aspect affecting the productivity of these net. Around the Field Edge net, where hummingbird feeders are placed to lure them in, the dogwoods remain dead after the apparent accidental spraying of them in fall 2011, and the sparse vegetation due to the flooding left this net quite exposed. The Willow Nets were also quite open and exposed, with lots of water. They both had to be moved away from their standard locations due to this water, resulting in fewer captures in them, especially hummingbirds, warblers, and Winter Wrens. The Swamp Nets were muddy and with very little undergrowth and no leaf litter for ground foraging birds; for the first time ever, no clearing had to be done for these net lanes in fall. The Upland Nets were mostly dry for most of the season, but the goldenrod (*Solidago* sp.) that is often dense in this area was very short and very sparse, which may have affected the number of small insectivores caught this fall, especially kinglets. There was no significant presence of White-tailed Deer in the banding areas this fall. No nets were destroyed by them, but we did watch as a pair of Mallards came in and landed in one of the Willow Nets (making two large holes) before we had to move it away from what is essentially now a pond, with a small rivulet. Despite all these hardships, everyone made a terrific effort this fall. Unfortunately, the area has now become too wet to work in, and after 20 years of banding here, it must be abandoned and another site, in different habitats, needs to be found in the park.

FALL 2014 RESULTS

Banding was conducted on 25 days between 3 August and 30 October with nets open a total of 169.50 hours (2099.25 net hours). This meets the desired coverage level for comparability between years. This was the 4th highest number of net hours since 2005. An attempt was made to band on 1 November, but near-freezing temperatures and strong north winds prevented nets from being opened. Hummingbird feeders and thistle socks were placed in the same locations as in previous years, Field Edge and Field respectively, with thistle out all season and hummingbird feeders up until the first week of October. Early morning audio-luring for Northern Saw-whet and Eastern Screech-Owls was attempted in late October and early November for the fifth fall season. The total of 1485 new birds was the 3rd lowest at this locale since 2005, while the total of 76 species was the 3rd highest. Also there were 350 recaptures (many were American Goldfinches) and 36 released unbanded, for a total of 1871 captures. The overall capture rate was 89.1 birds per 100 net hours. This is the second lowest capture rate since 2005, and the lowest since 2007. A comparison summary of all fall banding results since 2005 is shown in Table 1 below. The breakdown of the various groups banded is shown in Figure 1 below. The proportion of finches (mainly American Goldfinches) was lower than last year's record, while the proportion of warblers was higher. Flycatchers and thrushes were up slightly, although actual numbers of thrushes were down.

Figure 1. Percentages of bird families banded during fall 2014.

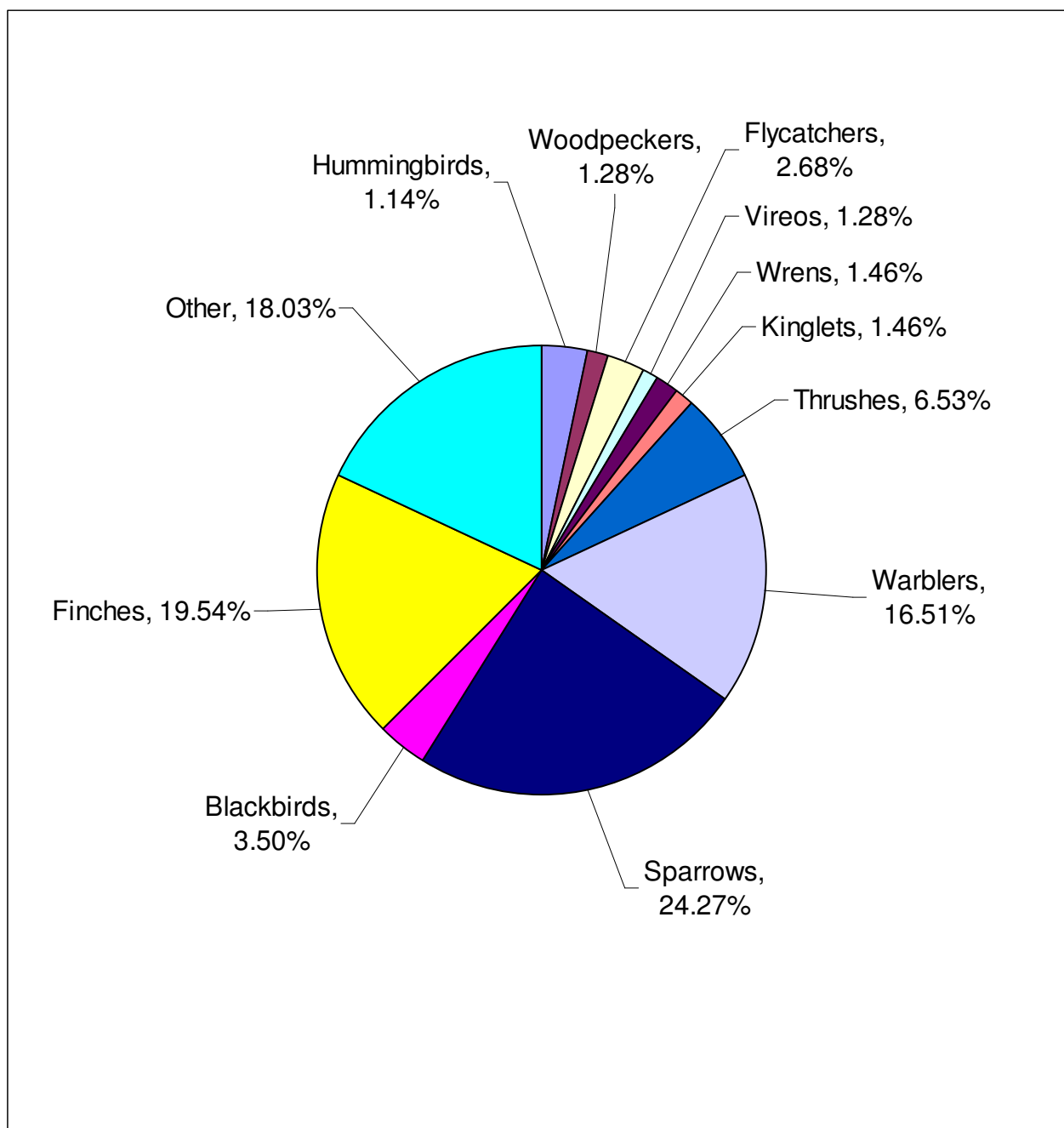


Table 1. Comparisons of annual fall banding effort, capture rates, and species diversity.

Year ¹	Days	Net Hrs.	New birds Banded	No. of Recaptures	Released unbanded ²	Total Captures	Capture Rate ³	No. of Species
1989	10	1059.00	625	25	33	683	64.5	54
1990	16	1170.00	803	61	134	998	85.3	67
1991	16	1570.00	1313	140	73	1526	97.2	67
1992	18	1794.00	918	*	20	938	52.3	63
1993	16	1220.00	812	*	21	833	68.3	58
1994	12	924.00	595	*	0	595	64.4	46
1995	14	1165.00	642	*	31	673	57.8	50
1996	14	1014.00	589	*	42	631	62.2	54
1997	14	1072.00	424	*	32	456	42.5	61
1998	12	960.00	505	*	22	527	54.9	50
1999	12	982.00	261	*	9	270	27.5	40
'89-'99 Avg. ¹	14	1175.45	681	20	38	739	61.5	55
2005	22	1066.00	868	102	26	996	93.4	58
2006	24	1618.19	1493	155	33	1681	103.9	60
2007	19	1336.94	959	116	36	1111	83.1	60
2008	22	1891.00	1841	341	40	2222	117.5	77
2009	22	1765.44	1639	231	32	1902	107.7	71
2010	24	1776.69	2201	268	53	2522	141.9	71
2011	25	2057.38	2115	297	53	2465	119.8	79
2012	26	2067.12	1889	215	46	2150	104.0	76
2013	26	2315.25	2645	543	59	3247	140.3	81
2014	25	2099.25	1485	350	36	1871	89.1	76
'04-'14 Avg.	24	1799.33	1714	262	41	2017	112.1	70

¹ 1989-1999 data has not yet been fully verified.

² Released unbanded (including mostly "escapes") were not tracked as carefully from 1989-1999 as from 2004-2014.

³ Capture rate is defined as number of individuals per 100 net hours.

Peak days of more than 100 birds banded are notable, with a total of only 41 such days from 1989-2008. Before 2008 no more than two such days per fall season was the norm. From 2009-2013, the number of 100 bird days increased significantly, with 10 or more each fall in those years. But this fall returned to the previous norm, with only three days with 100 new birds banded. Two of those were in August this year; 119 on 7 August and 120 on 10 August. This is most unusual as there has only been one such day in August before, just last year. The 106 on 9 October included a good influx of sparrows, but the overall lack of 100+ days reflected a generally poor showing for warblers, sparrows, and thrushes. There were three other days that were close to 100; 98 on 6 September, 98 on 11 September, and 97 on 18 September.

Ruby-throated Hummingbird numbers were 2nd lowest since banding them here began in 2005. Downy Woodpeckers were banded in about average numbers, with record numbers of Hairy Woodpecker and Northern Flicker. The trend since 2005 has been for flycatchers to be caught in lower numbers than during the 1990-1999 period, but for a change they had a good showing this fall with Eastern Wood-Pewee, Alder Flycatcher, and Traill's Flycatcher in good numbers, and uncommon species (Great Crested and Eastern Kingbird) showing up too. Vireo trends have also been low in the current 2005-2013 period, especially for Red-eyed, and that trend continued with

the exception of a fall record number of Warbling Vireos. Blue Jay numbers were well below average. Black-capped Chickadees were banded in above average numbers, and a surprise was a record number of Tufted Titmice, with more than the previous 9 years combined! They must have had a good nesting season in the park. Brown Creepers were well below average. It was a mixed season for wrens, with the lowest number of House Wrens in the past 10 years. Winter Wrens forage very low to the ground, in dense vegetation. With the high water and sparse vegetation where they're normally captured, they too were captured in the lowest numbers in the last 10 years. In contrast, it was the best season for Marsh Wrens since 1997 (and one more than last year's good number). Kinglets forage for insects in herbaceous vegetation, especially goldenrods after they go to seed. With the high water and very sparse vegetation, Golden-crowned Kinglets were banded in the 2nd lowest numbers since 2005, and Ruby-crowned the lowest. Continuing the trend of the past 9 years (and in contrast with the 1989-1999 numbers), Veery was missed entirely and both Gray-cheeked and Swainson's Thrushes were banded in low numbers, both close to the lowest in the past 10 years. Hermit Thrush has often been an exception to this decline, but this fall had the 3rd lowest number since 2005. Two Wood Thrushes were about average. Most American Robins in fall are banded during August, and consist mainly of juveniles. The number banded this fall was below average. After a couple of down years, the number of Gray Catbirds banded rose back up to average.

For the second fall in a row, this season had a rather poor showing for several species of warbler, with below or well below average numbers for Nashville, Chestnut-sided, Magnolia, Black-throated Blue, Yellow-rumped, Black-and-white, American Redstart, Ovenbird, Wilson's and Canada warblers. Black-throated Green Warbler was missed entirely for the second fall in a row. The Swamp Nets are typically responsible for capturing most of the Black-throated Blues, and many other species, but the wet conditions and almost complete lack of undergrowth (due to flooding all summer) likely contributed to this decline. Warblers banded in average to good numbers were Tennessee, Orange-crowned, Yellow (fall record), Palm (near-record), Bay-breasted, Blackpoll, and Common Yellowthroat. Northern Cardinals continued to be captured in below average numbers. Sparrows depend on low herbaceous and woody vegetation, and leaf litter, in the banding area. With most of this under water this fall, it is not surprising that it was a very poor year for most sparrows. Song Sparrow, a species that breeds in the local wetlands, was an exception, with the 4th highest banded since 2005. American Tree Sparrows were captured in about half the average number, while Fox Sparrows were again well below average. Lincoln's and Swamp Sparrows were close to average, while White-throated Sparrows were banded in the lowest numbers in 10 years (and less than half the average), and White-crowned Sparrow the 2nd lowest. Red-winged Blackbirds were caught in very good numbers; the 3rd highest in the past 10 years. The two Baltimore Orioles banded were half the average. House Finches were banded in well above average numbers, with the 2nd highest in the last 10 years. After last year's record number of American Goldfinches, numbers returned to slightly above average.

A Green Heron was caught in one of the Willow Nets near the road, and a Belted Kingfisher was caught in the same net; both station firsts. Unfortunately, both Willow Nets had to be moved in mid-season due to the increasing water depth there, leading us to wonder what else might have been captured there. Two Virginia Rails were only the 6th and 7th ever banded here and the first in fall since 1990! A Wilson's Snipe was only the 3rd ever at the station, with the first in spring 1991 and the 2nd in spring 2014. All these rarities are a strong indication of how wet the banding area was this fall. Two Great Crested Flycatchers was a record number for fall, and two Eastern Kingbirds were also unusual. Less common sparrows that were also captured included a single Chipping Sparrow, which was only the 4th at the station, all in fall since 2007, and two Field Sparrows which have been captured in slightly greater numbers in 2005-2014 than in 1989-1999. A Rusty Blackbird was only the 13th ever at the station, and the first ever in fall.

Details for all species captured this fall are shown in Table 2 below.

Table 2. Birds banded at Metro Beach Metropark in Fall 2014, compared with the 1990-1999 average and the 2005-2013 average (No. per 100 net hours in parentheses). **Bold = first ever banded here, Bold Italic = first banded here in fall,** ¹ = all time record, ² = tied all time record, ³ = fall record, ⁴ = tied fall record). **Bold red text** indicates significant declines, or significant missing species from the tally.

Species	1990-1999 Fall Avg.	2005-2013 Fall Avg.	Fall 2014 Totals	Returns From 2005- spring 2014
Green Heron	-	-	1 (0.05)	-
Sharp-shinned Hawk	0.2 (0.02)	0.4 (0.03)	-	-
Broad-winged Hawk	-	0.1 (0.01)	-	-
Red-tailed Hawk	-	0.2 (0.02)	-	-
Virginia Rail	0.1 (0.01)	-	2³ (0.10)	-
Sora	-	0.1 (0.01)	-	-
Wilson's Snipe	-	-	1 (0.05)	-
American Woodcock	-	0.1 (0.01)	-	-
Mourning Dove	0.1 (0.01)	1.3 (0.09)	-	-
Black-billed Cuckoo	0.5 (0.04)	-	-	-
Yellow-billed Cuckoo	0.1 (0.01)	0.1 (0.01)	-	-
Eastern Screech-Owl	-	0.2 (0.02)	-	1 (2013)
Ruby-throated Hummingbird	-	82.9 (5.88)	61 (2.91)	1 (2013)
Belted Kingfisher	-	-	1 (0.05)	-
Red-bellied Woodpecker	-	0.2 (0.02)	-	-
Yellow-bellied Sapsucker	0.5 (0.04)	0.4 (0.03)	-	-
Downy Woodpecker	4.5 (0.38)	7.8 (0.55)	9 (0.43)	1 (2010) 1 (2012) 1 (2013) 1 (2014)
Hairy Woodpecker	0.2 (0.02)	0.2 (0.02)	3¹ (0.14)	-
Northern Flicker	0.7 (0.06)	2.6 (0.18)	10³ (0.48)	1 (2014)
Olive-sided Flycatcher	-	0.2 (0.02)	-	-
Eastern Wood-Pewee	1.5 (0.13)	3.7 (0.26)	8 (0.38)	1 (2009)
Yellow-bellied Flycatcher	6.9 (0.59)	2.9 (0.20)	3 (0.14)	-
Acadian Flycatcher	0.5 (0.05)	-	-	-
Alder Flycatcher	-	1.2 (0.09)	5³ (0.24)	-
Willow Flycatcher	-	3.3 (0.24)	4 (0.19)	-
“Traill's” Flycatcher	1.1 (0.09)	4.6 (0.32)	12³ (0.57)	-
Least Flycatcher	2.6 (0.22)	6.4 (0.46)	6 (0.29)	-
Eastern Phoebe	0.9 (0.08)	2.2 (0.16)	4 (0.19)	-
Great Crested Flycatcher	1.2 (0.10)	0.2 (0.02)	2³ (0.10)	-
Eastern Kingbird	-	0.1 (0.01)	2 (0.10)	-
Blue-headed Vireo	2.5 (0.22)	3.7 (0.26)	1 (0.05)	-
Warbling Vireo	3.0 (0.26)	4.7 (0.33)	19¹ (0.91)	-
Philadelphia Vireo	4.0 (0.34)	1.3 (0.09)	-	-
Red-eyed Vireo	10.2 (0.87)	5.3 (0.38)	2 (0.10)	-

Table 2. Cont'd. (page 2 of 4)

Species	1990-1999 Fall Avg.	2005-2013 Fall Avg.	Fall 2014 Totals	Returns From 2005- spring 2014
Blue Jay	4.5 (0.39)	4.6 (0.32)	2 (0.10)	-
Northern Rough-winged Swallow	-	0.3 (0.02)	-	-
Barn Swallow	-	0.2 (0.02)	-	-
Black-capped Chickadee	11.4 (0.97)	14.6 (1.03)	19 (0.91)	3 (2013)
Tufted Titmouse	0.6 (0.05)	1.0 (0.07)	12¹ (0.57)	1 (2013)
Red-breasted Nuthatch	0.4 (0.03)	1.7 (0.12)	-	-
White-breasted Nuthatch	0.2 (0.02)	1.2 (0.09)	1 (0.05)	-
Brown Creeper	5.4 (0.46)	19.1 (1.36)	8 (0.38)	1 (2011)
Carolina Wren	0.8 (0.07)	1.8 (0.13)	1 (0.04)	-
House Wren	3.9 (0.33)	18.6 (1.32)	2 (0.10)	-
Winter Wren	6.2 (0.53)	17.6 (1.25)	4 (0.19)	-
Marsh Wren	9.5 (0.81)	4.6 (0.32)	18 (0.86)	-
Golden-crowned Kinglet	38.6 (3.29)	70.9 (5.03)	20 (0.95)	-
Ruby-crowned Kinglet	35.6 (3.03)	53.0 (3.76)	5 (0.24)	-
Blue-gray Gnatcatcher	0.1 (0.01)	0.4 (0.03)	-	-
Veery	3.9 (0.33)	2.1 (0.15)	-	-
Gray-cheeked Thrush	11.2 (0.95)	13.1 (0.93)	8 (0.38)	-
Swainson's Thrush	43.9 (3.74)	36.0 (2.55)	23 (1.10)	-
Hermit Thrush	25.7 (2.19)	81.3 (5.77)	59 (2.81)	-
Wood Thrush	1.4 (0.12)	1.7 (0.12)	2 (0.10)	-
American Robin	2.9 (0.25)	25.4 (1.80)	20 (0.95)	1 (2011)
Gray Catbird	21.6 (1.84)	16.8 (1.19)	16 (0.76)	-
Brown Thrasher	0.1 (0.01)	0.4 (0.03)	-	-
European Starling	-	0.7 (0.05)	-	-
Cedar Waxwing	7.4 (0.63)	8.2 (0.58)	4 (0.19)	-
Blue-winged Warbler	-	0.1 (0.01)	-	-
Golden-winged Warbler	0.4 (0.03)	-	-	-
Tennessee Warbler	4.7 (0.40)	16.2 (1.15)	19 (0.91)	-
Orange-crowned Warbler	1.0 (0.09)	5.9 (0.42)	4 (0.19)	-
Nashville Warbler	8.5 (0.73)	52.8 (3.74)	30 (1.43)	-
Northern Parula	0.5 (0.05)	1.3 (0.09)	1 (0.05)	-
Yellow Warbler	2.4 (0.20)	19.6 (1.39)	48³ (2.29)	2 (2012) 1 (2013) 2 (2014)
Chestnut-sided Warbler	8.3 (0.70)	7.4 (0.53)	2 (0.10)	-
Magnolia Warbler	78.0 (6.64)	37.4 (2.66)	18 (0.86)	-
Cape May Warbler	0.8 (0.07)	0.8 (0.06)	-	-
Black-throated Blue Warbler	15.5 (1.32)	35.6 (2.52)	8 (0.38)	-
Yellow-rumped Warbler	11.1 (0.94)	17.2 (1.22)	10 (0.48)	-
Black-throated Green Warbler	1.2 (0.10)	1.6 (0.11)	-	-

Table 2. Cont'd. (page 3 of 4)

Species	1990-1999 Fall Avg.	2005-2013 Fall Avg.	Fall 2014 Totals	Returns From 2005- spring 2014
Blackburnian Warbler	1.0 (0.09)	1.3 (0.09)	1 (0.05)	-
(Western) Palm Warbler	0.5 (0.05)	5.3 (0.38)	13 (0.62)	-
Bay-breasted Warbler	6.1 (0.52)	5.0 (0.35)	6 (0.29)	-
Blackpoll Warbler	11.7 (1.00)	17.0 (1.21)	15 (0.71)	-
Black-and-white Warbler	9.5 (0.81)	4.7 (0.33)	2 (0.10)	-
American Redstart	41.6 (3.54)	16.0 (1.13)	9 (0.43)	-
Prothonotary Warbler	0.1 (0.01)	-	-	-
Ovenbird	7.9 (0.67)	14.8 (1.05)	6 (0.29)	-
Northern Waterthrush	9.4 (0.80)	8.3 (0.59)	7 (0.33)	-
Connecticut Warbler	0.5 (0.05)	1.1 (0.08)	-	-
Mourning Warbler	2.7 (0.23)	5.2 (0.37)	3 (0.14)	-
Common Yellowthroat	16.9 (1.44)	63.2 (4.48)	77 (3.67)	2 (2011) 1 (2013) 2 (2014)
Wilson's Warbler	13.7 (1.17)	15.7 (1.11)	3 (0.10)	-
Canada Warbler	5.5 (0.46)	5.6 (0.39)	1 (0.05)	-
Hooded Warbler	-	0.1 (0.01)	-	-
Yellow-breasted Chat	0.1 (0.01)	0.2 (0.02)	-	-
Scarlet Tanager	0.1 (0.01)	0.1 (0.01)	-	-
Northern Cardinal	6.1 (0.52)	15.3 (1.09)	9 (0.43)	1 (2013)
Rose-breasted Grosbeak	2.3 (0.19)	1.7 (0.12)	-	-
Indigo Bunting	0.3 (0.02)	2.2 (0.16)	2 (0.10)	-
Eastern Towhee	-	0.9 (0.06)	-	-
American Tree Sparrow	-	8.7 (0.61)	4 (0.19)	1 (2012)
Chipping Sparrow	-	0.2 (0.02)	1 (0.05)	-
Field Sparrow	0.2 (0.02)	1.8 (0.13)	2 (0.10)	-
Savannah Sparrow	-	0.2 (0.02)	-	-
Fox Sparrow	1.7 (0.15)	8.9 (0.63)	3 (0.14)	-
Song Sparrow	46.7 (3.98)	158.3 (11.23)	200 (9.53)	2 (2008) 1 (2011) 3 (2012) 3 (2013) 3 (2014)
Lincoln's Sparrow	1.5 (0.13)	12.3 (0.87)	9 (0.43)	-
Swamp Sparrow	16.8 (1.43)	69.8 (4.95)	95 (4.53)	2 (2010) 1 (2012) 1 (2013)
White-throated Sparrow	56.7 (4.83)	230.7 (16.36)	96 (4.57)	-
White-crowned Sparrow	1.8 (0.15)	25.2 (1.79)	5 (0.24)	-
Dark-eyed Junco	1.1 (0.09)	4.7 (0.33)	-	-

Table 2. Cont'd. (page 4 of 4)

Species	1990-1999 Fall Avg.	2005-2013 Fall Avg.	Fall 2014 Totals	Returns From 2005- spring 2014
Red-winged Blackbird	1.1 (0.09)	20.6 (1.46)	55 (2.62)	-
Rusty Blackbird	-	-	1³ (0.05)	-
Common Grackle	0.2 (0.02)	0.7 (0.05)	1 (0.05)	-
Brown-headed Cowbird	0.1 (0.01)	0.4 (0.03)	1 (0.05)	-
Orchard Oriole	-	0.1 (0.01)	-	-
Baltimore Oriole	-	4.0 (0.28)	2 (0.10)	-
Purple Finch	0.1 (0.01)	0.2 (0.02)	-	-
House Finch	3.7 (0.32)	4.4 (0.32)	14 (0.67)	-
Pine Siskin	-	2.7 (0.19)	-	-
Common Redpoll	0.1 (0.01)	-	-	-
American Goldfinch	3.2 (0.27)	273.8 (19.42)	322 (15.34)	1 (2007) 1 (2009) 2 (2010) 3 (2011) 6 (2012) 18 (2013) 4 (2014)

An interesting early arrival was an Eastern Phoebe on 22 August. Generally, this species does not nest in the park, so either they did find an area to nest this year (the broken down gazebo?) or this was a very early migrant. Few Chipping Sparrows have ever been banded in this area, and they do not nest very close by within the park, so a juvenile on the very early date of 7 August was unusual. Late records of note included Palm Warbler and Blackpoll warblers on 18 October, and an Indigo Bunting on 9 October. A Red-winged Blackbird on 11 October was late for the banding area, as they typically abandon the marsh by the end of August and forage in other areas of the park. Good single-day totals were 4 Eastern Wood-Pewees on 11 September, 3 Willow Flycatchers on 7 August, 3 "Traill's" Flycatchers on three dates, 2 Great Crested Flycatchers on 20 August, 7 Warbling Vireos on 10 August, 5 Tufted Titmice on 11 October, 5 Marsh Wrens on 4 September, 22 Yellow Warblers on 7 August, and 7 Palm Warblers on 9 October.

Details of first and last dates, peak dates and peak numbers for all species can be found in Table 3 below.

Table 3. Birds banded at Metro Beach Metropark in Fall 2014, earliest, latest, and peak numbers. Unusual species, dates, or numbers are boldfaced.

Species	Earliest Date	Latest Date	Peak No.	Peak Date
Green Heron	10-Aug-14	10-Aug-14	1	10-Aug-14
Sharp-shinned Hawk	-	-	-	-
Broad-winged Hawk	-	-	-	-
Red-tailed Hawk	-	-	-	-
Virginia Rail	28-Aug-14	28-Aug-14	2	28-Aug-14
Sora	-	-	-	-
Wilson's Snipe	25-Oct-14	25-Oct-14	1	25-Oct-14
American Woodcock	-	-	-	-
Mourning Dove	-	-	-	-
Black-billed Cuckoo	-	-	-	-
Yellow-billed Cuckoo	-	-	-	-
Eastern Screech-Owl	-	-	-	-
Ruby-throated Hummingbird	07-Aug-14	27-Sep-14	9	11-Sep-14
Belted Kingfisher	30-Aug-14	30-Aug-14	1	30-Aug-14
Red-bellied Woodpecker	-	-	-	-
Yellow-bellied Sapsucker	-	-	-	-
Downy Woodpecker	03-Aug-14	18-Oct-14	2	2 dates
Hairy Woodpecker	28-Aug-14	13-Sep-14	1	3 dates
Northern Flicker	10-Aug-14	27-Sep-14	3	10-Aug-14
Olive-sided Flycatcher	-	-	-	-
Eastern Wood-Pewee	28-Aug-14	11-Sep-14	4	11-Sep-14
Yellow-bellied Flycatcher	28-Aug-14	13-Sep-14	1	3 dates
Acadian Flycatcher	-	-	-	-
Alder Flycatcher	10-Aug-14	06-Sep-14	2	20-Aug-14
Willow Flycatcher	07-Aug-14	22-Aug-14	3	07-Aug-14
"Traill's" Flycatcher	03-Aug-14	28-Aug-14	3	3 dates
Least Flycatcher	22-Aug-14	13-Sep-14	3	13-Sep-14
Eastern Phoebe	22-Aug-14	18-Oct-14	3	18-Oct-14
Great Crested Flycatcher	20-Aug-14	20-Aug-14	2	20-Aug-14
Eastern Kingbird	07-Aug-14	20-Aug-14	1	2 dates
Blue-headed Vireo	11-Oct-14	11-Oct-14	1	11-Oct-14
Warbling Vireo	07-Aug-14	13-Sep-14	7	10-Aug-14
Philadelphia Vireo	-	-	-	-
Red-eyed Vireo	06-Sep-14	13-Sep-14	1	2 dates
Blue Jay	27-Sep-14	27-Sep-14	2	27-Sep-14
Northern Rough-winged Swallow	-	-	-	-
Barn Swallow	-	-	-	-
Black-capped Chickadee	07-Aug-14	30-Oct-14	3	3 dates
Tufted Titmouse	10-Aug-14	11-Oct-14	5	11-Oct-14
Red-breasted Nuthatch	-	-	-	-

Table 3. Cont'd. (page 2 of 3)

Species	Earliest Date	Latest Date	Peak No.	Peak Date
White-breasted Nuthatch	20-Aug-14	20-Aug-14	1	20-Aug-14
Brown Creeper	25-Sep-14	25-Oct-14	3	18-Oct-14
Carolina Wren	07-Aug-14	07-Aug-14	1	07-Aug-14
House Wren	07-Aug-14	10-Aug-14	1	2 dates
Winter Wren	04-Oct-14	18-Oct-14	2	04-Oct-14
Marsh Wren	10-Aug-14	27-Sep-14	5	04-Sep-14
Golden-crowned Kinglet	09-Oct-14	30-Oct-14	8	18-Oct-14
Ruby-crowned Kinglet	16-Oct-14	18-Oct-14	4	18-Oct-14
Blue-gray Gnatcatcher	-	-	-	-
Veery	-	-	-	-
Gray-cheeked Thrush	18-Sep-14	04-Oct-14	3	25-Sep-14
Swainson's Thrush	04-Sep-14	16-Oct-14	5	06-Sep-14
Hermit Thrush	27-Sep-14	25-Oct-14	17	09-Oct-14
Wood Thrush	02-Oct-14	04-Oct-14	1	2 dates
American Robin	03-Aug-14	28-Aug-14	6	22-Aug-14
Gray Catbird	03-Aug-14	09-Oct-14	4	20-Aug-14
Brown Thrasher	-	-	-	-
European Starling	-	-	-	-
Cedar Waxwing	07-Aug-14	10-Aug-14	2	2 dates
Blue-winged Warbler	-	-	-	-
Golden-winged Warbler	-	-	-	-
Tennessee Warbler	06-Sep-14	09-Oct-14	5	02-Oct-14
Orange-crowned Warbler	11-Oct-14	25-Oct-14	3	11-Oct-14
Nashville Warbler	06-Sep-14	11-Oct-14	11	13-Sep-14
Northern Parula	13-Sep-14	13-Sep-14	1	13-Sep-14
Yellow Warbler	03-Aug-14	22-Aug-14	22	07-Aug-14
Chestnut-sided Warbler	06-Sep-14	13-Sep-14	1	2 dates
Magnolia Warbler	04-Sep-14	25-Sep-14	12	13-Sep-14
Cape May Warbler	-	-	-	-
Black-throated Blue Warbler	30-Aug-14	11-Oct-14	2	2 dates
Yellow-rumped Warbler	09-Oct-14	18-Oct-14	7	18-Oct-14
Black-throated Green Warbler	-	-	-	-
Blackburnian Warbler	06-Sep-14	06-Sep-14	1	06-Sep-14
(Western) Palm Warbler	25-Sep-14	18-Oct-14	7	09-Oct-14
Bay-breasted Warbler	11-Sep-14	13-Sep-14	5	13-Sep-14
Blackpoll Warbler	06-Sep-14	18-Oct-14	11	06-Sep-14
Black-and-white Warbler	06-Sep-14	13-Sep-14	1	2 dates
American Redstart	28-Aug-14	09-Oct-14	5	13-Sep-14
Prothonotary Warbler	-	-	-	-
Ovenbird	28-Aug-14	09-Oct-14	1	6 dates
Northern Waterthrush	10-Aug-14	09-Oct-14	2	2 dates

Table 3. Cont'd. (page 3 of 3)

Species	Earliest Date	Latest Date	Peak No.	Peak Date
Connecticut Warbler	-	-	-	-
Mourning Warbler	06-Sep-14	06-Sep-14	3	06-Sep-14
Common Yellowthroat	03-Aug-14	11-Oct-14	12	18-Sep-14
Wilson's Warbler	22-Aug-14	13-Sep-14	2	13-Sep-14
Canada Warbler	06-Sep-14	06-Sep-14	1	06-Sep-14
Hooded Warbler	-	-	-	-
Yellow-breasted Chat	-	-	-	-
Scarlet Tanager	-	-	-	-
Northern Cardinal	03-Aug-14	30-Oct-14	1	9 dates
Rose-breasted Grosbeak	-	-	-	-
Indigo Bunting	27-Sep-14	09-Oct-14	1	2 dates
Eastern Towhee	-	-	-	-
American Tree Sparrow	23-Oct-14	23-Oct-14	4	23-Oct-14
Chipping Sparrow	07-Aug-14	07-Aug-14	1	07-Aug-14
Field Sparrow	09-Oct-14	18-Oct-14	1	Both dates
Savannah Sparrow	-	-	-	-
Fox Sparrow	23-Oct-14	30-Oct-14	2	30-Oct-14
Song Sparrow	03-Aug-14	30-Oct-14	29	10-Aug-14
Lincoln's Sparrow	13-Sep-14	18-Oct-14	2	2 dates
Swamp Sparrow	03-Aug-14	30-Oct-14	15	07-Aug-14
White-throated Sparrow	25-Sep-14	30-Oct-14	38	09-Oct-14
White-crowned Sparrow	27-Sep-14	16-Oct-14	2	27-Sep-14
Dark-eyed Junco	-	-	-	-
Red-winged Blackbird	03-Aug-14	11-Oct-14	24	07-Aug-14
Rusty Blackbird	16-Oct-14	16-Oct-14	1	16-Oct-14
Common Grackle	07-Aug-14	07-Aug-14	1	07-Aug-14
Brown-headed Cowbird	03-Aug-14	03-Aug-14	1	03-Aug-14
Orchard Oriole	-	-	-	-
Baltimore Oriole	07-Aug-14	10-Aug-14	1	Both dates
Purple Finch	-	-	-	-
House Finch	10-Aug-14	04-Sep-14	8	14-Aug-14
Common Redpoll	-	-	-	-
Pine Siskin	-	-	-	-
American Goldfinch	03-Aug-14	30-Oct-14	48	18-Sep-14

CAPTURES BY HABITAT

Breaking down the captures by net groups shown in Table 4 below, on a per-net basis the Field Nets were clearly the most productive as has been the case since the beginning, but this year the difference was less than in previous years. The other nets that were flooded as well, including Field Edge, Willow, and Swamp, also had fewer captures than has been the pattern. This was offset by an increase at the only set of nets that were dry, and had undergrowth and leaf litter; the Upland Nets.

Captures of Ruby-throated Hummingbird were mostly in the Field and Field Edge Nets, where there was good growth of Jewelweed this fall, but lower numbers at the Willow Nets where jewelweed was much sparser than normal. More were captured in the Upland Nets than usual. As expected, most sparrows were captured in the Field Nets, despite the water, while thrushes were captured mostly in the Upland and Swamp Nets. The lower numbers of warblers were captured mostly in the Field Nets this year, but this is mainly due to nearly 1/3 of the warblers being resident species of those marshes; Common Yellowthroats and Yellow Warblers.

Most White-throated Sparrows were captured in the Upland Nets this year, with smaller numbers in the other nets, with Willow capturing the least. This is quite different from the normal pattern, and was likely due to the much reduced ground cover and leaf litter due to the flooding in most of the banding area. Vireos were mostly in the Field Nets, very possibly due to the resurgence of Dogwood (*Cornus* sp.) there after removal over the past three years of Glossy Buckthorn (*Frangula alnus*), although vireo numbers overall remain very low. Captures by net group for selected species is shown in Table 5 below.

Table 4. Captures by net groups for all species.

Net Group	No. captured	% captured	% per net
Field (3.0 nets)	882	59.4%	19.8%
Field Edge (1.0 net)	110	7.3%	7.3%
Willow (2.0 nets)	99	6.7%	3.4%
Upland (4.0 nets)	287	19.3%	4.8%
Swamp (4.0 nets)	108	7.3%	1.8%

Table 5. Captures by net group for selected species.

Species	Field	Field Edge	Willow	Upland	Swamp
Ruby-throated Hummingbird (n=61)	44.3%	41.0%	1.6%	13.1%	-
<i>Empidonax</i> Flycatchers (n=30)	86.7%	-	3.3%	3.3%	6.7%
All flycatchers (n=46)	67.4%	-	8.7%	15.2%	8.7%
All vireos (n=22)	86.4%	-	9.1%	4.5%	-
Brown Creeper (n=8)	-	-	-	12.5%	87.5%
House Wren (n=2)	50.0%	-	-	50.0%	-
Winter Wren (n=4)	-	-	25.0%	50.0%	25.0%
Marsh Wren (n=18)	100.0%	-	-	-	-
Golden-crowned Kinglet (n=20)	-	5.0%	20.0%	15.0%	60.0%
Ruby-crowned Kinglet (n=5)	-	80.0%	-	20.0%	-
Gray-cheeked Thrush (n=8)	-	-	-	100.0%	-
Swainson's Thrush (n=23)	-	-	17.4%	56.5%	26.1%
Hermit Thrush (n=59)	1.7%	1.7%	13.6%	32.2%	50.8%
American Robin (n=20)	65.0%	5.0%	-	25.0%	5.0%
All thrushes (n=112)	12.5%	1.8%	11.6%	41.1%	33.0%
Tennessee Warbler (n=19)	63.2%	10.5%	10.5%	15.8%	-
Nashville Warbler (n=30)	43.3%	16.7%	20.0%	20.0%	-
Yellow Warbler (n=48)	75.0%	-	4.2%	20.8%	-
Magnolia Warbler (n=18)	16.7%	22.2%	38.9%	22.2%	-
Black-throated Blue Warbler (n=8)	-	-	37.5%	-	62.5%
Yellow-rumped Warbler (n=10)	10.0%	10.0%	-	70.0%	10.0%
Palm Warbler (n=13)	61.5%	30.8%	-	7.7%	-
Blackpoll Warbler (n=15)	20.0%	6.7%	53.3%	-	20.0%
Common Yellowthroat (n=77)	80.5%	13.0%	1.3%	5.2%	-
All warblers (n=283)	49.5%	11.3%	14.5%	17.7%	7.0%
Song Sparrow (n=200)	67.0%	7.5%	3.0%	21.5%	1.0%
Lincoln's Sparrow (n=9)	88.9%	11.1%	-	-	-
Swamp Sparrow (n=95)	82.1%	10.5%	3.2%	4.2%	-
White-throated Sparrow (n=96)	17.7%	15.6%	8.3%	41.7%	16.7%
White-crowned Sparrow (n=5)	80.0%	-	-	20.0%	-
All sparrows (n=414)	59.9%	10.1%	4.2%	21.5%	4.3%
Red-winged Blackbird [all] (n=55)	30.9%	-	7.3%	60.0%	1.8%
House Finch (n=14)	100.0%	-	-	-	-
American Goldfinch (n=322)	99.1%	0.6%	-	0.3%	-

AGE RATIOS

The ratios of adult to young birds captured is potentially biased by differential capture rates of age groups that may forage at different heights, with young birds foraging lower and being captured more often. But, these samples may also provide some insight to nesting success from one year to another. The age ratios for selected species is provided in Table 6 below.

Table 6. Age ratios for selected species banded, and all species combined. (Adult = AHY+SY+ASY).

Species	Adult	HY	U
Ruby-throated Hummingbird (n=61)	6.6%	93.4%	-
Warbling Vireo (n=19)	5.3%	94.7%	-
Black-capped Chickadee (n=19)	21.0%	79.0%	-
Brown Creeper (n=8)	-	75.0%	25.0%
Marsh Wren (n=18)	33.3%	66.7%	-
Golden-crowned Kinglet (n=20)	-	70.0%	30.0%
Ruby-crowned Kinglet (n=5)	-	40.0%	60.0%
Gray-cheeked Thrush (n=8)	12.5%	87.5%	-
Swainson's Thrush (n=23)	13.0%	87.0%	-
Hermit Thrush (n=59)	1.7%	98.3%	-
American Robin (n=20)	15.0%	85.0%	-
Gray Catbird (n=16)	25.0%	75.0%	-
Tennessee Warbler (n=19)	10.5%	89.5%	-
Nashville Warbler (n=30)	3.3%	96.7%	-
Yellow Warbler (n=48)	2.1%	97.9%	-
Magnolia Warbler (n=18)	5.6%	94.4%	-
Black-throated Blue Warbler (n=8)	-	100%	-
Palm Warbler (n=13)	15.4%	84.6%	-
Blackpoll Warbler (n=15)	6.7%	93.3%	-
Common Yellowthroat (n=77)	28.6%	71.4%	-
Song Sparrow (n=200)	10.5%	89.5%	-
Swamp Sparrow (n=95)	6.3%	93.7%	-
White-throated Sparrow (n=96)	19.8%	80.2%	-
Red-winged Blackbird (n=55)	14.5%	85.5%	-
House Finch (n=14)	-	100%	-
American Goldfinch (n=322)	15.8%	84.2%	-
ALL SPECIES (n=1485)	13.7%	85.5%	0.8%

BREEDING EVIDENCE

This fall breeding evidence was detected in 97 individuals of 10 species, most of which (58) were adult American Goldfinches. Hatch-year goldfinches were also captured but are not included in Table 7 below because they may not have been hatched locally despite some of them having noticeably short tails. And most of the hatch-year Yellow Warblers (47), Common Yellowthroats (55), Song Sparrows (179), and Swamp Sparrows (89) were likely hatched locally but are not included here as they may have moved from other areas in the park, or in the case of Yellow Warbler, may be true migrants from farther north in Michigan or beyond. Additionally, a Lincoln's Sparrow was captured on 14 September with a brood patch of 4 (diminishing). This species does not nest closer than Michigan's Thumb, so that breeding evidence does not indicate nesting in the park.

Details can be found in Table 7 below.

Table 7. Breeding Evidence of Birds captured at Metro Beach Metropark in Fall 2014
(BP=Brood Patch, CP=Cloacal Protuberance, 1=min., 3=max., 4=diminishing)

Species	Age/Sex	Band No.	Date Banded	Dates Recaptured	Breeding Evidence Observed
Ruby-throated Hummingbird	AHY-F	J-03242	07-Jun-13	07-Aug-14	BP=2
Northern Flicker	AHY-F	1603-53396	17-Apr-14	07-Aug-14	BP=4
American Robin	AHY-M	1292-72699	03-Apr-11	10-Aug-14	CP=2
American Robin	AHY-M	1352-62763	03-Aug-14	-	CP=2
American Robin	AHY-F	1352-62780	10-Aug-14	-	BP=3
American Robin	HY-U	1352-62776	10-Aug-14	14-Aug-14	Juv.
American Robin	HY-U	1352-62779	10-Aug-14	-	Juv.
American Robin	HY-U	1352-62781	10-Aug-14	-	Juv.
American Robin	HY-U	1352-62782	14-Aug-14	-	Juv.
American Robin	HY-U	1352-62783	14-Aug-14	-	Juv.
American Robin	HY-U	1352-62784	14-Aug-14	-	Juv.
American Robin	HY-U	1352-62785	20-Aug-14	-	Juv.
American Robin	HY-U	1352-62786	20-Aug-14	-	Juv.
American Robin	HY-U	1352-62787	22-Aug-14	-	Juv.
American Robin	HY-U	1352-62788	22-Aug-14	-	Juv.
American Robin	HY-U	1352-62789	22-Aug-14	-	Juv.
American Robin	HY-U	1352-62790	22-Aug-14	-	Juv.
American Robin	HY-U	1352-62791	22-Aug-14	-	Juv.
American Robin	HY-U	1352-62792	22-Aug-14	-	Juv.
American Robin	HY-U	1352-62793	28-Aug-14		Juv.
Gray Catbird	AHY-F	2561-68455	07-Aug-14	-	BP=4
Cedar Waxwing	AHY-F	2691-22142	07-Aug-14	-	BP=3
Common Yellowthroat	AHY-F	2610-05716	25-Sep-11	14-Aug-14 04-Sep-14	BP=3 BP=4
Song Sparrow	AHY-F	2551-65060	12-Apr-12	20-Aug-14	BP=4
Song Sparrow	AHY-F	2571-96605	08-Aug-13	22-Aug-14	BP=4
Song Sparrow	AHY-M	2571-96607	08-Aug-13	10-Aug-14 14-Aug-14	CP=3 CP=3
Song Sparrow	AHY-M	2691-22081	10-May-14	07-Aug-14	CP=3
Song Sparrow	AHY-M	2691-22203	20-Aug-14	-	CP=2

Table 7. Cont'd. (page 2 of 3)

Species	Age/Sex	Band No.	Date Banded	Dates Recaptured	Breeding Evidence Observed
Song Sparrow	AHY-F	2691-22135	07-Aug-14	14-Aug-14 20-Aug-14	BP=3 BP=3
Song Sparrow	AHY-F	2691-22138	07-Aug-14	-	BP=3
Song Sparrow	AHY-F	2691-22168	10-Aug-14	-	BP=3
Song Sparrow	AHY-F	2691-22220	28-Aug-14	-	BP=4
Song Sparrow	AHY-F	2691-22227	30-Aug-14	-	BP=3
Swamp Sparrow	AHY-M	2401-00873	14-May-10	10-Aug-14	CP=3
Swamp Sparrow	AHY-F	2511-56966	05-May-12	07-Aug-14	BP=4
Swamp Sparrow	AHY-F	2591-24936	15-Sep-13	07-Aug-14 14-Aug-14	BP=4 BP=4
Red-winged Blackbird	AHY-F	2561-68460	07-Aug-14	-	BP=3
Red-winged Blackbird	AHY-F	2561-68476	10-Aug-14	-	BP=4
Red-winged Blackbird	AHY-F	2561-68481	10-Aug-14	-	BP=4
Red-winged Blackbird	AHY-F	2561-68482	10-Aug-14	-	BP=4
Red-winged Blackbird	AHY-F	2561-68483	10-Aug-14	-	BP=4
American Goldfinch	AHY-M	1601-24798	21-Apr-07	14-Aug-14	CP=3
American Goldfinch	AHY-M	2511-56419	24-Sep-11	10-Aug-14	CP=3
American Goldfinch	AHY-M	2521-40324	22-Sep-12	14-Aug-14	CP=3
American Goldfinch	AHY-M	2521-40399	27-Sep-12	10-Aug-14	CP=2
American Goldfinch	AHY-M	2521-40533	20-Oct-12	07-Aug-14	CP=3
American Goldfinch	AHY-M	2521-40988	17-Apr-13	14-Aug-14	CP=3
American Goldfinch	AHY-M	2591-24314	27-Apr-13	22-Aug-14	CP=2
American Goldfinch	AHY-M	2591-24489	08-Aug-13	10-Aug-14	CP=2
American Goldfinch	AHY-F	2391-16091	30-Apr-09	07-Aug-14	BP=3
American Goldfinch	AHY-F	2401-00778	09-Apr-10	11-Sep-14	BP=4
American Goldfinch	AHY-F	2401-44769	18-Sep-10	25-Sep-14	BP=4
American Goldfinch	AHY-F	2511-56220	05-Sep-11	13-Sep-14	BP=4
American Goldfinch	AHY-F	2511-56299	10-Sep-11	11-Sep-14	BP=4
American Goldfinch	AHY-F	2521-40139	12-Aug-12	28-Aug-14	BP=3
American Goldfinch	AHY-F	2521-40351	22-Sep-12	11-Sep-14	BP=4
American Goldfinch	AHY-F	2591-24525	11-Aug-13	22-Aug-14	BP=4
American Goldfinch	AHY-F	2591-24561	24-Aug-13	28-Aug-14 06-Sep-14 11-Sep-14	BP=3 BP=4 -
American Goldfinch	AHY-F	2591-24563	24-Aug-13	28-Aug-14	BP=3
American Goldfinch	AHY-F	2591-24580	29-Aug-13	28-Aug-14	BP=3
American Goldfinch	AHY-F	2591-24638	05-Sep-13	06-Sep-14	BP=4
American Goldfinch	AHY-F	2591-24824	14-Sep-13	20-Aug-14	BP=3
American Goldfinch	AHY-F	2591-25128	26-Sep-13	28-Aug-14	BP=3
American Goldfinch	AHY-F	2591-25149	26-Sep-13	11-Sep-14	BP=4
American Goldfinch	AHY-F	2591-25203	03-Oct-13	04-Sep-14 13-Sep-14	BP=4 BP=4
American Goldfinch	AHY-F	2621-10207	11-May-14	04-Sep-14	BP=3

Table 7. Cont'd. (page 3 of 3)

Species	Age/Sex	Band No.	Date Banded	Dates Recaptured	Breeding Evidence Observed
American Goldfinch	AHY-F	2621-10253	24-May-14	06-Sep-14	BP=4
American Goldfinch	AHY-F	2621-10263	06-Jun-14	22-Aug-14	BP=4
American Goldfinch	AHY-M	2621-10286	10-Aug-14	-	CP=1
American Goldfinch	AHY-M	2621-10288	10-Aug-14	-	CP=2
American Goldfinch	AHY-M	2621-10293	10-Aug-14	-	CP=2
American Goldfinch	AHY-M	2621-10306	10-Aug-14	-	CP=3
American Goldfinch	AHY-M	2621-10315	14-Aug-14	-	CP=3
American Goldfinch	AHY-M	2621-10316	14-Aug-14	-	CP=2
American Goldfinch	AHY-M	2621-10317	14-Aug-14	-	CP=1
American Goldfinch	AHY-M	2621-10322	14-Aug-14	-	CP=3
American Goldfinch	AHY-M	2621-10338	20-Aug-14	-	CP=2
American Goldfinch	AHY-M	2621-10340	20-Aug-14	-	CP=2
American Goldfinch	AHY-M	2621-10346	22-Aug-14	-	CP=2
American Goldfinch	AHY-M	2621-10371	30-Aug-14	-	CP=2
American Goldfinch	AHY-M	2621-10372	30-Aug-14	-	CP=2
American Goldfinch	AHY-M	2621-10374	30-Aug-14	-	CP=2
American Goldfinch	AHY-F	2621-10264	03-Aug-14	20-Aug-14 06-Sep-14	BP=3, egg? BP=4
American Goldfinch	AHY-F	2621-10268	07-Aug-14	-	BP=4
American Goldfinch	AHY-F	2621-10308	14-Aug-14	-	BP=4
American Goldfinch	AHY-F	2621-10324	14-Aug-14	-	BP=3
American Goldfinch	AHY-F	2621-10351	28-Aug-14	-	BP=3
American Goldfinch	AHY-F	2621-10363	28-Aug-14	-	BP=3
American Goldfinch	AHY-F	2621-10377	30-Aug-14	-	BP=3
American Goldfinch	AHY-F	2621-10378	30-Aug-14	-	BP=3
American Goldfinch	AHY-F	2621-10409	04-Sep-14	-	BP=4
American Goldfinch	AHY-F	2621-10419	06-Sep-14	-	BP=4
American Goldfinch	AHY-F	2621-10426	06-Sep-14	-	BP=4
American Goldfinch	AHY-F	2621-10456	11-Sep-14	-	BP=4
American Goldfinch	AHY-F	2621-10462	11-Sep-14	-	BP=4
American Goldfinch	AHY-F	2621-10475	11-Sep-14	-	BP=4
American Goldfinch	AHY-F	2621-10485	11-Sep-14	-	BP=4
American Goldfinch	AHY-F	2621-10565	18-Sep-14	-	BP=4
American Goldfinch	AHY-F	2621-10569	18-Sep-14	-	BP=4

RETURNS, RECAPTURES & FOREIGN RE-ENCOUNTERS

The overall number of recaptures this fall (350) was above average but lower than in recent years. The returns of 34 individuals from previous years and seasons was similar to last fall's low number, and are summarized in Table 8 below. The only return from 2007 was an American Goldfinch banded on 21 April 2007 as a SY-M, and recaptured on 14 August 2014 as a 9Y-M (actual age of 8 years 2 months). The 2008 return was a Song Sparrow banded on 26 September 2008 as an AHY-U, and recaptured on 10 August 2014 as an A6Y-M. Details of all returns can be found in Table 9 & 10. The Location column (Loc) in tables 9 & 10 give an idea of the movements or territory of these individuals.

Birds banded at Metro Beach are very infrequently encountered any significant distance away from the park, so any reports of these "foreign" re-encounters are very special. One report was received recently.

- An Ovenbird (2591-24606) banded on 31 August 2013 as a hatch-year, sex unknown, was found dead near the small town of Maple Leaf, in northern Ontario, on 6 May 2014. This is a distance of 314 miles (505 km) NW of the banding site.

Table 8. Returns by year.

	Banded in Spring 2014	Banded in 2013	Banded in 2012	Banded in 2011	Banded in 2010	Banded in 2009	Banded in 2008	Banded in 2007
2007 Returns No. (species)	-	-	-	-	-	-	-	8 (4)
2008 Returns No. (species)	-	-	-	-	-	-	12 (6)	14 (7)
2009 Returns No. (species)	-	-	-	-	-	12 (8)	16 (7)	4 (3)
2010 Returns No. (species)	-	-	-	-	7 (5)	12 (6)	9 (3)	7 (4)
2011 Returns No. (species)	-	-	-	12 (6)	26 (7)	11 (5)	6 (4)	7 (3)
2012 Returns No. (species)	-	-	5 (3)	16 (4)	1 (1)	5 (5)	3 (2)	1 (1)
2013 Returns No. (species)	-	31 (7)	24 (9)	21 (6)	7 (3)	2 (2)	2 (2)	1 (1)
2014 Returns No. (species)	13 (6)	32 (11)	14 (6)	8 (5)	5 (2)	2 (2)	2 (1)	1 (1)

Table 9. Returns from 2007-2013

Species	Band No.	Date Banded	Age/Sex	Date Recap.	Age/Sex	Loc *
Ruby-throated Hummingbird	J-03242	07-Jun-13	AHY-F	07-Aug-14	ASY-F	FE
Downy Woodpecker	2431-38789	28-May-10	SY-M	18-Sep-14	6Y-M	W
Downy Woodpecker	2571-96277	20-Oct-12	HY-M	09-Nov-14	3Y-M	-
Downy Woodpecker	2661-04868	10-Oct-13	SY-M	30-Oct-14	3Y-M	U
Eastern Wood-Pewee	2560-75161	23-Aug-09	AHY-F	07-Aug-14	A6Y-F	U
Black-capped Chickadee	2700-01937	04-Aug-13	HY-U	30-Oct-14	SY-U	SW
Black-capped Chickadee	2700-03047	05-Sep-13	HY-U	11-Sep-14 09-Oct-14 16-Oct-14	SY-U	F U U
Black-capped Chickadee	2700-03183	10-Oct-13	HY-U	16-Oct-14	SY-U	U
Tufted Titmouse	2571-96641	15-Aug-13	HY-U	09-Oct-14	SY-U	U
Brown Creeper	2620-66746	29-Oct-11	HY-U	30-Oct-14	4Y-U	U
American Robin	1292-72699	03-Apr-11	AHY-M	10-Aug-14	A4Y-M	W
Yellow Warbler	2610-05940	14-May-12	ASY-M	07-Aug-14	A4Y-M	U
Yellow Warbler	2610-05942	14-May-12	SY-M	14-Aug-14	4Y-M	W
Yellow Warbler	2700-01916	30-May-13	ASY-M	07-Aug-14	A3Y-M	F
Common Yellowthroat	2610-05567	10-Aug-11	HY-U	10-Aug-14	4Y-M	FE
Common Yellowthroat	2610-05716	25-Sep-11	HY-U	14-Aug-14 04-Sep-14	3Y-F	FE F
Common Yellowthroat	2700-01945	04-Aug-13	HY-U	27-Sep-14	SY-M	U
American Tree Sparrow	2660-28093	01-Nov-12	HY-U	25-Oct-14	3Y-U	U
Song Sparrow	2281-10870	26-Sep-08	AHY-U	10-Aug-14	A6Y-M	FE
Song Sparrow	2431-25867	01-Nov-08	HY-U	20-Aug-14	7Y-U	SW
Song Sparrow	2551-64945	24-Oct-11	HY-U	20-Aug-14	4Y-U	U
Song Sparrow	2551-65060	12-Apr-12	SY-F	20-Aug-14	4Y-F	FE
Song Sparrow	2551-65220	09-Aug-12	HY-U	25-Oct-14	3Y-U	FE
Song Sparrow	2551-65356	22-Sep-12	AHY-U	11-Oct-14	A3Y-U	FE
Song Sparrow	2571-96572	08-Jun-13	AHY-M	14-Aug-14	ASY-M	SW
Song Sparrow	2571-96605	08-Aug-13	HY-U	22-Aug-14	SY-F	W
Song Sparrow	2571-96607	08-Aug-13	HY-U	10-Aug-14 14-Aug-14	SY-M	FE W
Song Sparrow	2571-96618	11-Aug-13	HY-U	14-Aug-14 28-Aug-14 11-Oct-14	SY-U	F FE FE
Swamp Sparrow	2401-00873	14-May-10	SY-M	10-Aug-14	6Y-M	F
Swamp Sparrow	2401-44883	20-Sep-10	HY-U	25-Sep-14 02-Oct-14	5Y-U	F F
Swamp Sparrow	2511-56996	05-May-12	SY-U	07-Aug-14	4Y-F	F
Swamp Sparrow	2591-24936	15-Sep-13	HY-U	07-Aug-14 14-Aug-14	SY-F	F F

Table 9 (Cont'd). Page 2 of 2

Species	Band No.	Date Banded	Age/Sex	Date Recap.	Age/Sex	Loc *
Northern Cardinal	1352-36629	24-Aug-13	HY-F	02-Oct-14	SY-F	F
American Goldfinch	1601-24798	21-Apr-07	SY-M	14-Aug-14	9Y-M	F
American Goldfinch	2391-16091	30-Apr-09	SY-F	07-Aug-14	7Y-F	F
American Goldfinch	2401-00778	09-Apr-10	SY-F	11-Sep-14	6Y-F	F
American Goldfinch	2401-44769	18-Sep-10	HY-F	15-Sep-14	5Y-F	F
American Goldfinch	2511-56220	05-Sep-11	HY-F	13-Sep-14	4Y-F	F
American Goldfinch	2511-56299	10-Sep-11	HY-F	11-Sep-14	4Y-F	F
American Goldfinch	2511-56419	24-Sep-11	HY-M	10-Aug-14	4Y-M	F
American Goldfinch	2521-40139	12-Aug-12	AHY-F	28-Aug-14	A3Y-F	U
American Goldfinch	2521-40324	22-Sep-12	HY-M	14-Aug-14	3Y-M	F
American Goldfinch	2521-40351	22-Sep-12	HY-F	11-Sep-14	3Y-F	F
American Goldfinch	2521-40399	27-Sep-12	HY-M	10-Aug-14	3Y-M	F
American Goldfinch	2521-40533	20-Oct-12	HY-M	07-Aug-14	3Y-M	F
American Goldfinch	2521-40539	20-Oct-12	HY-F	16-Oct-14	3Y-F	F
American Goldfinch	2521-40988	17-Apr-13	SY-M	14-Aug-14	3Y-M	F
American Goldfinch	2591-24314	27-Apr-13	SY-M	22-Aug-14	3Y-M	F
American Goldfinch	2591-24319	27-Apr-13	SY-M	28-Aug-14	3Y-M	F
American Goldfinch	2591-24467	30-May-13	SY-M	18-Sep-14	3Y-M	F
American Goldfinch	2591-24489	08-Aug-13	AHY-M	10-Aug-14	ASY-M	F
American Goldfinch	2591-24525	11-Aug-13	AHY-F	22-Aug-14	ASY-F	F
American Goldfinch	2591-24561	24-Aug-13	HY-F	28-Aug-14 06-Sep-14 11-Sep-14	SY-F	F F F
American Goldfinch	2591-24563	24-Aug-13	HY-F	28-Aug-14	SY-F	F
American Goldfinch	2591-24580	29-Aug-13	HY-F	28-Aug-14	SY-F	F
American Goldfinch	2591-24611	31-Aug-13	HY-M	13-Sep-14	SY-M	F
American Goldfinch	2591-24638	05-Sep-13	AHY-F	06-Sep-14	ASY-F	F
American Goldfinch	2591-24754	12-Sep-13	HY-F	30-Aug-14	SY-F	F
American Goldfinch	2591-24824	14-Sep-13	HY-F	20-Aug-14	SY-F	F
American Goldfinch	2591-25011	22-Sep-13	HY-M	11-Sep-14	SY-M	F
American Goldfinch	2591-25128	26-Sep-13	HY-F	28-Aug-14	SY-F	F
American Goldfinch	2591-25149	26-Sep-13	HY-F	11-Sep-14	SY-F	F
American Goldfinch	2591-25171	29-Sep-13	HY-M	20-Aug-14	SY-M	F
American Goldfinch	2591-25203	03-Oct-13	HY-F	04-Sep-14 13-Sep-14	SY-F	F F

* F=Field, FE=Field Edge, W=Willow, SW=Swamp, U=Upland.

Table 10. Recaptures from spring 2014

Species	Band No.	Date Banded	Age/Sex	Date Recap.	Age/Sex	Loc *
Downy Woodpecker	2691-22036	19-Apr-14	SY-M	18-Sep-14	SY-M	W
Northern Flicker	1603-53396	17-Apr-14	AHY-F	07-Aug-14	AHY-F	U
Yellow Warbler	2700-03329	09-May-14	SY-F	07-Aug-14	SY-F	F
Yellow Warbler	2700-03382	22-May-14	SY-F	07-Aug-14	SY-F	F
Common Yellowthroat	2730-26508	31-May-14	SY-F	18-Sep-14	SY-F	F
Common Yellowthroat	2730-26521	06-Jun-14	AHY-F	14-Aug-14	AHY-F	F
Song Sparrow	2691-22049	27-Apr-14	SY-F	27-Sep-14	SY-F	F
Song Sparrow	2691-22081	10-May-14	AHY-M	07-Aug-14	AHY-M	U
Song Sparrow	2691-22105	22-May-14	AHY-M	18-Sep-14	AHY-M	FE
American Goldfinch	2621-10207	11-May-14	ASY-F	04-Sep-14	ASY-F	F
American Goldfinch	2621-10233	17-May-14	SY-M	06-Sep-14	SY-M	F
American Goldfinch	2621-10253	24-May-14	SY-F	06-Sep-14	SY-F	F
American Goldfinch	2621-10263	06-Jun-14	ASY-F	22-Aug-14	ASY-F	F

WEIGHT GAINS/LOSSES

One measure of the value of an area to migrant birds is the weight gain of those birds using the area. There is much variation from day to day, and year to year, with regard to how birds use an area, the condition they're in when they arrive, and how long they'll tend to use an area. In general, migration is more protracted in fall, so stopover durations are sometimes longer.

Table 11 below provides details of weight gains and losses detected during Fall 2014.

A total of 167 individuals of 19 species banded this fall were recaptured on subsequent days to document stopover duration and measure weight gains or losses. This is back to about average after last year's high number due to the record catch of American Goldfinches. This fall most were still American Goldfinches, with good numbers of Song and Swamp Sparrows, which breed in the banding area, but very low numbers of migrant White-throated and White-crowned Sparrows, possibly due to the ground cover where they forage being extensively under water.

Weight gains of 100 individuals averaged 7.5% while weight losses of 64 individuals averaged 4.5%. Changes of about 2% or less are likely within the range of daily variation for most species and may not be significant (31 individuals – 18.6% - showed weight changes of 2.0% or less). The greatest weight gains included: 85.2% in 7 days by a Ruby-throated Hummingbird (the greatest weight gain by any bird at the site, ever), 15.6% in 2 days by another Ruby-throated Hummingbird, 20.6% in 2 days by a Northern Waterthrush, 21.6% in 41 days by a Song Sparrow, 15.6% in 69 days by a Song Sparrow, 17.4% in 56 days by a Song Sparrow, 23.2% in 26 days by a Song Sparrow, 16.4% in 28 days by a Swamp Sparrow, 15.1% in 12 days by a Swamp Sparrow, 16.9% in 60 days by a Swamp Sparrow, 26.6% in 9 days by an American Goldfinch, and 29.1% in 21 days by an American Goldfinch. Some equally significant weight losses were recorded, including: 12.6% in 7 days by a Black-throated Blue Warbler, 11.4% in 12 days by a Common Yellowthroat, 10.3% in 14 days by an American Goldfinch, 11.9% in 7 days by an American Goldfinch, and 12.4% in 21 days by an American Goldfinch.

Interestingly, stopovers for four Ruby-throated Hummingbirds was recorded, all showing weight gains (one very significantly). Stopovers were recorded for 6 species and only 28 individuals of Neotropical migrant warbler; Nashville, Magnolia, Black-throated Blue, Ovenbird, Northern Waterthrush, and Common Yellowthroat. Duration of stopovers for these warblers, excluding the 21 Common Yellowthroats (which breed in the area), ranged from 2 days to 9 days. Four showed weight gains while three showed weight losses. Of the Common Yellowthroats, 10 showed an average weight gain of 3.7%, and 11 showed an average weight loss of 5.5%. None of the Yellow Warblers banded this fall, mainly hatch-year birds in early August, was recaptured a second time so no “stopover” information was collected for that species. Of the 55 Song Sparrows recaptured (several more than last year’s excellent number), 40 showed an average weight gain of 7.8%, 14 showed an average weight loss of 3.0%, and one showed no change. The 21 Swamp Sparrows recaptured was more than normal, and 13 showed an average weight gain of 7.8%, 7 showed an average weight loss of 3.9%, and one showed no change. Only three White-throated Sparrows were recaptured, with 2 losing weight and 1 gaining weight; their stopovers ranged from 5-12 days. Only two White-crowned Sparrows were recaptured, both showing weight losses; their stopovers ranged from 2-5 days. And, of the 42 American Goldfinches recaptured, 20 showed an average weight gain of 6.7%, 21 showed an average weight loss of 5.5%, and one showed no change. Weight gains of goldfinches are more likely attributable to the thistle feeders provided to them, while weight gains of the other species are likely due to naturally available food sources, although this fall the number of goldfinches showing weight losses was higher, suggesting that the availability of wild food (thistles) was lower, perhaps again due to higher water levels.

It is clear that this small and rather isolated patch of habitat at Lake St. Clair Metropark continues to be an important stopover and refueling (feeding) site for migrating birds, and an important area for breeding birds as well, although the restoration of the marsh may have limited its usefulness to some migrants, especially sparrows and thrushes, but also possibly some warbler species. Perhaps other areas of the park will show an increase in activity in these species in the future.

Table 11. Same Season Recaptures (with weight gain or loss noted), migrants only.
(**Bold Ital**=Neotropical Migrant, **Bold**=Migrant)

Species	Band No.	Age/Sex	Date Banded	Date Recaptured	No. of days	Original Weight	Weight at Recapture (g)	Gain/Loss (g)	Gain/Loss (%)
<i>Ruby-throated Hummingbird</i>	J(5100)-70996	HY-M	11-Sep-14	13-Sep-14 18-Sep-14	2 7	3.1 2.9	2.9 3.2	+0.1	+3.2%
<i>Ruby-throated Hummingbird</i>	K(6100)-10344	HY-M	18-Sep-14	20-Sep-14	2	3.2	3.7	+0.5	+15.6%
<i>Ruby-throated Hummingbird</i>	K(6100)-10355	HY-M	25-Sep-14	03-Oct-14	7	2.7	5.0	+2.3	+85.2%
<i>Ruby-throated Hummingbird</i>	K(6100)-10356	HY-M	25-Sep-14	27-Sep-14	2	3.3	3.5	+0.2	+6.1%
Northern Flicker	1603-53443	HY-F	22-Aug-14	06-Sep-14 11-Sep-14	15 20	126.0 127.8	127.8 126.1	+0.1	+0.8%
Northern Flicker	1603-53446	ASY-M	04-Sep-14	11-Sep-14	7	133.0	130.0	-3.0	-2.2%
<i>Eastern Wood-Pewee</i>	2730-26705	HY-U	11-Sep-14	13-Sep-14	2	13.6	13.4	-0.2	-1.5%
Marsh Wren	2621-10398	HY-U	04-Sep-14	18-Sep-14	14	10.3	11.0	+0.7	+6.8%
Golden-crowned Kinglet	2760-10709	HY-M	16-Oct-14	18-Oct-14	2	6.3	6.4	+0.1	+1.6%
<i>Gray Catbird</i>	2561-68462	HY-U	07-Aug-14	28-Aug-14	21	37.2	38.0	+0.8	+2.2%
<i>Gray Catbird</i>	2561-68475	AHY-U	10-Aug-14	18-Sep-14	39	36.6	39.1	+2.5	+6.8%
<i>Gray Catbird</i>	2561-68485	HY-U	14-Aug-14	20-Aug-14	6	35.8	37.5	+1.7	+4.7%
Hermit Thrush	2691-22488	HY-U	16-Oct-14	18-Oct-14	2	29.6	28.7	-0.9	-3.0%
American Robin	1352-62776	HY-U	10-Aug-14	14-Aug-14	4	69.7	68.5	-1.2	-1.7%
<i>Nashville Warbler</i>	2630-26313	HY-F	11-Sep-14	13-Sep-14	2	8.9	8.5	-0.4	-4.5%
<i>Magnolia Warbler</i>	2630-26298	HY-U	04-Sep-14	13-Sep-14	9	8.5	8.6	+0.1	+1.2%
<i>Magnolia Warbler</i>	2630-26312	HY-U	11-Sep-14	13-Sep-14	2	8.7	8.2	-0.5	-5.7%
<i>Magnolia Warbler</i>	2630-26339	HY-U	13-Sep-14	18-Sep-14	5	8.4	8.6	+0.2	+2.4%
<i>Black-throated. Blue Warbler</i>	2630-26300	HY-F	04-Sep-14	06-Sep-14 11-Sep-14	2 7	10.3 9.2	9.2 9.0	-1.3	-12.6%
<i>Ovenbird</i>	2621-10691	HY-U	09-Oct-14	11-Oct-14	2	19.6	20.1	+0.5	+2.6%
<i>Northern Waterthrush</i>	2621-10659	HY-U	02-Oct-14	04-Oct-14	2	17.0	20.5	+3.5	+20.6%
<i>Common Yellowthroat</i>	2610-05716	AHY-F	25-Sep-11	14-Aug-14 04-Sep-14	- 21	- 9.3	10.0 9.3	-0.7	+7.0%
<i>Common Yellowthroat</i>	2730-26537	HY-M	07-Aug-14	04-Sep-14 20-Sep-14	28 44	10.1 10.9	10.9 10.2	+0.1	+1.0%
<i>Common Yellowthroat</i>	2730-26540	HY-U	07-Aug-14	10-Aug-14	3	9.2	9.3	+0.1	+1.1%
<i>Common Yellowthroat</i>	2730-26543	HY-U	07-Aug-14	10-Aug-14	3	9.7	9.9	+0.2	+2.1%
<i>Common Yellowthroat</i>	2730-26548	AHY-M	07-Aug-14	10-Aug-14 28-Aug-14 04-Sep-14	3 21 28	10.7 10.7 11.4	10.7 11.4 10.0	-0.7	-6.5%
<i>Common Yellowthroat</i>	2730-26564	HY-U	07-Aug-14	18-Sep-14	42	9.2	8.7	-0.5	-5.4%
<i>Common Yellowthroat</i>	2730-26568	AHY-F	07-Aug-14	28-Aug-14 06-Sep-14	21 30	10.7 10.2	10.2 9.8	-0.9	-8.4%
<i>Common Yellowthroat</i>	2730-26576	HY-U	07-Aug-14	11-Sep-14	35	10.2	10.7	+0.5	+4.9%
<i>Common Yellowthroat</i>	2730-26577	HY-M	07-Aug-14	30-Aug-14	23	11.7	11.2	-0.5	-4.3%
<i>Common Yellowthroat</i>	2730-26582	HY-M	10-Aug-14	04-Sep-14	25	10.8	11.3	+0.5	+4.6%
<i>Common Yellowthroat</i>	2730-26584	HY-U	10-Aug-14	11-Sep-14 13-Sep-14	32 34	9.0 9.2	9.2 9.3	+0.3	3.3%
<i>Common Yellowthroat</i>	2730-26589	HY-M	10-Aug-14	22-Aug-14	12	10.3	10.7	+0.4	+3.9%
<i>Common Yellowthroat</i>	2730-26628	HY-M	20-Aug-14	30-Aug-14	10	10.1	10.2	+0.1	+1.0%
<i>Common Yellowthroat</i>	2730-26629	HY-M	20-Aug-14	18-Sep-14 20-Sep-14	29 31	11.0 10.8	10.8 10.2	-0.8	-7.3%

Table 11. Cont'd. (page 2 of 6)

Species	Band No.	Age/Sex	Date Banded	Date Recaptured	No. of days	Original Weight	Weight at Recapture (g)	Gain/Loss (g)	Gain/Loss (%)
<i>Common Yellowthroat</i>	2730-26653	AHY-M	04-Sep-14	11-Sep-14	7	11.1	10.8	-0.3	-2.7%
<i>Common Yellowthroat</i>	2730-26655	AHY-M	04-Sep-14	11-Sep-14	7	9.8	9.5	-0.3	-3.1%
<i>Common Yellowthroat</i>	2730-26666	AHY-M	06-Sep-14	18-Sep-14	12	11.4	10.1	-1.3	-11.4%
<i>Common Yellowthroat</i>	2730-26691	AHY-M	11-Sep-14	25-Sep-14	14	10.6	10.5	-0.1	-0.9%
<i>Common Yellowthroat</i>	2730-26719	HY-M	13-Sep-14	20-Sep-14	7	10.4	10.9	+0.5	+4.8%
<i>Common Yellowthroat</i>	2730-26726	HY-U	18-Sep-14	25-Sep-14	7	9.9	9.5	-0.4	-4.0%
<i>Common Yellowthroat</i>	2730-26747	HY-U	02-Oct-14	04-Oct-14	2	10.1	11.1	+1.0	+9.9%
Song Sparrow	2571-96607	AHY-M	08-Oct-13	10-Aug-14	-	-	18.8		
				14-Aug-14	4	18.8	19.9	+1.1	+5.8%
Song Sparrow	2571-96618	AHY-U	11-Aug-13	14-Aug-14	-	-	21.9		
				28-Aug-14	14	21.9	23.1		
				11-Oct-14	58	23.1	22.2	+0.3	+1.4%
Song Sparrow	2691-22119	HY-U	03-Aug-14	10-Aug-14	7	20.3	19.8	-0.5	-2.5%
Song Sparrow	2691-22124	HY-U	07-Aug-14	10-Aug-14	3	18.5	18.3		
				20-Aug-14	13	18.3	18.1	-0.4	-2.2%
Song Sparrow	2691-22127	HY-U	07-Aug-14	10-Aug-14	3	18.1	17.8	-0.3	-1.7%
Song Sparrow	2691-22131	HY-U	07-Aug-14	10-Aug-14	3	18.7	18.2		
				28-Aug-14	21	18.2	20.4		
				16-Oct-14	70	20.4	20.3		
				30-Oct-14	84	20.3	19.5	+0.8	+4.3%
Song Sparrow	2691-22133	HY-U	07-Aug-14	14-Aug-14	7	17.6	18.5	+0.9	+5.1%
Song Sparrow	2691-22135	AHY-F	07-Aug-14	14-Aug-14	7	18.9	18.9		
				20-Aug-14	13	18.9	18.9	0	0%
Song Sparrow	2691-22149	HY-U	10-Aug-14	20-Aug-14	10	18.3	17.6	-0.7	-3.8%
Song Sparrow	2691-22150	HY-U	10-Aug-14	20-Aug-14	10	19.6	18.6	-1.0	-5.1%
Song Sparrow	2691-22152	HY-U	10-Aug-14	14-Aug-14	4	17.7	16.9	-0.8	-4.5%
Song Sparrow	2691-22153	HY-U	10-Aug-14	09-Oct-14	60	20.5	21.5	+1.0	+4.9%
Song Sparrow	2691-22156	HY-U	10-Aug-14	20-Aug-14	10	20.3	20.1	-0.2	-1.0%
Song Sparrow	2691-22159	HY-U	10-Aug-14	11-Oct-14	62	17.7	20.3	+2.6	+14.7%
Song Sparrow	2691-22173	HY-U	10-Aug-14	14-Aug-14	4	18.3	18.7	+0.4	+2.2%
Song Sparrow	2691-22178	HY-U	10-Aug-14	02-Oct-14	53	21.8	24.5		
				04-Oct-14	55	24.5	22.5	+0.7	+3.2%
Song Sparrow	2691-22185	HY-U	14-Aug-14	28-Aug-14	14	16.2	17.5	+1.3	+8.0%
Song Sparrow	2691-22187	HY-U	14-Aug-14	04-Oct-14	51	17.6	21.4	+3.8	+21.6%
Song Sparrow	2691-22189	HY-U	14-Aug-14	20-Aug-14	6	19.0	18.8		
				30-Aug-14	16	18.8	20.1	+1.1	+5.8%
Song Sparrow	2691-22192	HY-U	14-Aug-14	22-Aug-14	8	19.5	19.4	-0.1	-0.5%
Song Sparrow	2691-22195	HY-U	20-Aug-14	30-Aug-14	10	20.5	22.2	+1.7	+8.3%
Song Sparrow	2691-22202	HY-U	20-Aug-14	22-Aug-14	2	19.0	18.3	-0.7	-3.7%
Song Sparrow	2691-22206	HY-U	22-Aug-14	28-Aug-14	6	19.9	20.3	+0.4	+2.0%
Song Sparrow	2691-22207	HY-U	22-Aug-14	16-Oct-14	55	19.0	19.9	+0.9	+4.7%
Song Sparrow	2691-22210	HY-U	22-Aug-14	06-Sep-14	15	16.7	17.1		
				30-Oct-14	69	17.1	19.3	+2.6	+15.6%
Song Sparrow	2691-22211	HY-U	22-Aug-14	11-Sep-14	20	19.4	20.6		
				18-Sep-14	27	20.6	22.1	+2.5	+12.9%
Song Sparrow	2691-22212	HY-U	22-Aug-14	28-Aug-14	6	18.6	19.0	+0.4	+2.2%
Song Sparrow	2691-22214	HY-U	22-Aug-14	06-Sep-14	15	19.0	19.4		
				11-Oct-14	50	19.4	20.2	+1.2	+6.3%

Table 11. Cont'd. (page 3 of 6)

Species	Band No.	Age/Sex	Date Banded	Date Recaptured	No. of days	Original Weight	Weight at Recapture (g)	Gain/Loss (g)	Gain/Loss (%)
Song Sparrow	2691-22215	HY-U	22-Aug-14	28-Aug-14	6	19.3	18.2		
				06-Sep-14	15	18.2	17.8		
				20-Sep-14	29	17.8	18.9		
				27-Sep-14	36	18.9	20.2	+0.9	+4.7%
Song Sparrow	2691-22216	HY-U	28-Aug-14	06-Sep-14	9	18.1	17.2		
				18-Sep-14	21	17.2	18.6	+0.5	+2.8%
Song Sparrow	2691-22217	HY-U	28-Aug-14	23-Oct-14	56	17.8	20.9	+3.1	+17.4%
Song Sparrow	2691-22218	HY-U	28-Aug-14	04-Sep-14	7	19.5	16.6		
				06-Sep-14	9	16.6	17.5		
				20-Sep-14	23	17.5	18.9		
				23-Sep-14	56	18.9	21.1	+1.6	+8.2%
Song Sparrow	2691-22221	HY-U	28-Aug-14	11-Oct-14	44	19.5	21.8	+2.3	+11.8%
Song Sparrow	2691-22223	HY-U	28-Aug-14	04-Oct-14	37	20.2	21.6	+1.4	+6.9%
Song Sparrow	2691-22224	HY-U	28-Aug-14	06-Sep-14	9	19.3	19.2		
				11-Sep-14	14	19.2	20.9	+1.6	+8.3%
Song Sparrow	2691-22225	HY-U	28-Aug-14	09-Oct-14	42	20.3	21.0	+0.7	+3.4%
Song Sparrow	2691-22226	HY-U	28-Aug-14	30-Aug-14	2	18.8	18.9	+0.1	+0.5%
Song Sparrow	2691-22229	HY-U	30-Aug-14	27-Sep-14	28	19.8	21.3	+1.5	+7.6%
Song Sparrow	2691-22230	HY-U	30-Aug-14	25-Sep-14	26	19.8	24.4	+4.6	+23.2%
Song Sparrow	2691-22231	HY-U	30-Aug-14	25-Oct-14	56	19.7	21.3	+1.6	+8.1%
Song Sparrow	2691-22234	HY-U	04-Sep-14	18-Sep-14	14	17.4	19.5	+2.1	+12.1%
Song Sparrow	2691-22236	HY-U	04-Sep-14	06-Sep-14	2	18.6	17.9	-0.7	-3.8%
Song Sparrow	2691-22247	HY-U	06-Sep-14	16-Oct-14	40	18.0	20.6	+2.6	+14.4%
Song Sparrow	2691-22255	HY-U	06-Sep-14	18-Sep-14	12	21.8	22.2	+0.4	+1.8%
Song Sparrow	2691-22258	HY-U	11-Sep-14	13-Sep-14	2	17.8	18.3		
				18-Sep-14	7	18.3	19.4	+1.6	+9.0%
Song Sparrow	2691-22259	HY-U	11-Sep-14	13-Sep-14	2	18.5	18.7	+0.2	+1.1%
Song Sparrow	2691-22260	HY-U	11-Sep-14	18-Sep-14	7	18.0	19.5	+1.5	+8.3%
Song Sparrow	2691-22261	HY-U	11-Sep-14	04-Oct-14	23	18.5	20.4	+1.9	+10.3%
Song Sparrow	2691-22265	HY-U	11-Sep-14	23-Oct-14	42	18.3	19.9		
				30-Oct-14	49	19.9	20.2	+1.9	+10.4%
Song Sparrow	2691-22267	HY-U	11-Sep-14	13-Sep-14	2	21.4	21.1	-0.3	-1.4%
Song Sparrow	2691-22268	HY-U	11-Sep-14	18-Sep-14	7	19.1	19.5	+0.4	+2.1%
Song Sparrow	2691-22278	HY-U	13-Sep-14	18-Sep-14	5	20.0	18.9		
				20-Sep-14	7	18.9	17.6		
				25-Sep-14	12	17.6	19.6		
				27-Sep-14	14	19.6	17.9		
				16-Oct-14	33	17.9	22.0	+2.0	+10.0%
Song Sparrow	2691-22297	HY-U	25-Sep-14	18-Oct-14	23	20.7	20.6	-0.1	-0.5%
Song Sparrow	2691-22312	HY-U	27-Sep-14	09-Oct-14	12	21.9	20.8	-1.1	-5.0%
Song Sparrow	2691-22549	HY-U	25-Oct-14	30-Oct-14	5	23.8	22.3	-1.5	-6.3%
Lincoln's Sparrow	2621-10693	HY-U	09-Oct-14	11-Oct-14	2	17.4	17.5	+0.1	+0.6%
Swamp Sparrow	2401-44883	AHY-U	20-Sep-10	25-Sep-14	-	-	16.5		
				02-Oct-14	7	16.5	17.4	+0.9	+5.4%
Swamp Sparrow	2591-24936	AHY-F	15-Sep-13	07-Aug-14	-	-	14.3		
				14-Aug-14	7	14.3	13.3	-1.0	-7.0%
Swamp Sparrow	2621-10265	HY-U	03-Aug-14	06-Sep-14	34	18.5	18.1		
				11-Sep-14	39	18.1	18.2	-0.3	-1.6%

Table 11. Cont'd. (page 4 of 6)

Species	Band No.	Age/Sex	Date Banded	Date Recaptured	No. of days	Original Weight	Weight at Recapture (g)	Gain/ Loss (g)	Gain/ Loss (%)
Swamp Sparrow	2621-10270	HY-U	07-Aug-14	18-Sep-14	42	14.0	16.8		
				27-Sep-14	51	16.8	16.0	+2.0	+14.3%
Swamp Sparrow	2621-10272	HY-U	07-Aug-14	25-Sep-14	49	15.9	15.9	0	0%
Swamp Sparrow	2621-10274	HY-U	07-Aug-14	14-Aug-14	7	15.2	15.8		
				28-Aug-14	21	15.8	18.5		
				04-Sep-14	28	18.5	17.7	+2.5	+16.4%
Swamp Sparrow	2621-10276	HY-U	07-Aug-14	14-Aug-14	7	15.1	16.0	+0.9	+6.0%
Swamp Sparrow	2621-10280	HY-U	07-Aug-14	10-Aug-14	3	14.2	14.5	+0.3	+2.1%
Swamp Sparrow	2621-10282	HY-U	07-Aug-14	10-Aug-14	3	16.0	15.4		
				13-Sep-14	37	15.4	17.6		
				20-Sep-14	44	17.6	16.4	+0.4	+2.5%
Swamp Sparrow	2621-10283	HY-U	07-Aug-14	06-Sep-14	30	15.5	15.0		
				11-Sep-14	35	15.0	15.4	-0.1	-0.6%
Swamp Sparrow	2621-10285	HY-U	10-Aug-14	22-Aug-14	12	16.6	19.1	+2.5	+15.1%
Swamp Sparrow	2621-10287	HY-U	10-Aug-14	22-Aug-14	12	15.4	16.7		
				09-Oct-14	60	16.7	18.0	+2.6	+16.9%
Swamp Sparrow	2621-10297	HY-U	10-Aug-14	02-Oct-14	53	16.8	15.8	-1.0	-6.0%
Swamp Sparrow	2621-10304	HY-U	10-Aug-14	27-Sep-14	48	16.0	17.2	+1.2	+7.5%
Swamp Sparrow	2621-10321	HY-U	14-Aug-14	20-Aug-14	6	13.4	14.6		
				27-Sep-14	44	14.6	13.7		
				02-Oct-14	49	13.7	14.3	+0.7	+5.2%
Swamp Sparrow	2621-10341	HY-U	20-Aug-14	22-Aug-14	2	15.1	15.4		
				06-Sep-14	17	15.4	15.9		
				13-Sep-14	24	15.9	16.3		
				18-Sep-14	29	16.3	16.2		
				02-Oct-14	43	16.3	15.8	+0.7	+4.6%
Swamp Sparrow	2621-10347	HY-U	13-Sep-14	27-Sep-14	14	18.1	16.8	-1.3	-7.2%
Swamp Sparrow	2621-10368	HY-U	30-Aug-14	11-Sep-14	12	15.6	16.0	+0.4	+2.6%
Swamp Sparrow	2621-10391	AHY-U	04-Sep-14	11-Sep-14	7	14.1	14.5	+0.4	+2.8%
Swamp Sparrow	2621-10421	AHY-U	06-Sep-14	20-Sep-14	14	16.8	16.5	-0.3	-1.8%
Swamp Sparrow	2621-10733	HY-U	18-Oct-14	30-Oct-14	12	18.9	18.3	-0.6	-3.2%
White-throated Sparrow	2691-22327	HY-U	27-Sep-14	09-Oct-14	12	26.1	24.9	-1.2	-4.6%
White-throated Sparrow	2691-22361	HY-U	04-Oct-14	09-Oct-14	5	27.6	26.3	-1.3	-4.7%
White-throated Sparrow	2691-22411	HY-U	09-Oct-14	18-Oct-14	9	24.1	26.1	+2.0	+8.3%
White-crowned Sparrow	2691-22346	HY-U	02-Oct-14	04-Oct-14	2	26.5	25.6	-0.9	-3.4%
White-crowned Sparrow	2691-22358	HY-U	04-Oct-14	09-Oct-14	5	30.8	30.4	-0.4	-1.3%
American Goldfinch	2591-24561	AHY-F	24-Aug-13	28-Aug-14	-	-	12.7		
				06-Sep-14	9	12.7	11.8		
				11-Sep-14	14	11.8	12.2	-0.5	-3.9%
American Goldfinch	2591-25203	AHY-F	03-Oct-13	04-Sep-14	-	-	12.1		
				13-Sep-14	9	12.1	12.4	+0.3	+2.5%
American Goldfinch	2621-10264	AHY-F	03-Aug-14	20-Aug-14	17	13.0	14.6		
				06-Sep-14	34	14.6	12.2	-0.8	-6.2%
American Goldfinch	2621-10313	HY-F	14-Aug-14	20-Aug-14	6	12.3	12.2		
				22-Aug-14	8	12.2	11.8	-0.5	-4.1%
American Goldfinch	2621-10329	HY-F	20-Aug-14	18-Sep-14	29	13.6	13.2	-0.4	-2.9%
American Goldfinch	2621-10332	HY-F	20-Aug-14	22-Aug-14	2	12.5	12.5		
				28-Aug-14	8	12.5	12.4		
				11-Sep-14	22	12.4	12.1	-0.4	-3.2%

Table 11. Cont'd. (page 5 of 6)

Species	Band No.	Age/Sex	Date Banded	Date Recaptured	No. of days	Original Weight	Weight at Recapture (g)	Gain/Loss (g)	Gain/Loss (%)
American Goldfinch	2621-10333	HY-F	20-Aug-14	22-Aug-14 28-Aug-14	2 8	13.2 13.5	13.5 12.9	-0.3	-2.3%
American Goldfinch	2621-10334	HY-F	20-Aug-14	22-Aug-14 28-Aug-14 18-Sep-14	2 8 29	12.0 11.5 12.0	11.5 12.0 12.4	+0.4	+3.3%
American Goldfinch	2621-10335	HY-F	20-Aug-14	22-Aug-14	2	11.9	12.2	+0.3	+2.5%
American Goldfinch	2621-10353	HY-M	28-Aug-14	04-Sep-14 11-Sep-14	7 14	13.1 12.6	12.6 12.2	-0.9	-6.9%
American Goldfinch	2621-10359	HY-F	28-Aug-14	30-Aug-14 04-Sep-14	2 7	12.1 12.0	12.0 12.4	+0.3	+2.5%
American Goldfinch	2621-10360	HY-F	28-Aug-14	30-Aug-14 06-Sep-14 20-Sep-14	2 9 23	11.6 11.3 11.0	11.3 11.0 12.0	+0.4	+3.4%
American Goldfinch	2621-10361	HY-M	28-Aug-14	11-Sep-14	14	13.6	12.2	-1.4	-10.3%
American Goldfinch	2621-10366	HY-M	28-Aug-14	20-Sep-14	23	14.1	14.2	+0.1	+0.7%
American Goldfinch	2621-10369	HY-M	30-Aug-14	04-Sep-14 06-Sep-14	5 7	13.3 14.2	14.2 13.7	+0.4	+3.0%
American Goldfinch	2621-10370	HY-M	30-Aug-14	13-Sep-14	14	13.4	12.7	-0.7	-5.2%
American Goldfinch	2621-10373	HY-M	30-Aug-14	04-Sep-14 11-Sep-14	5 12	13.1 12.5	12.5 12.8	-0.3	-2.3%
American Goldfinch	2621-10383	HY-F	30-Aug-14	11-Sep-14	12	13.1	12.2	-0.9	-6.9%
American Goldfinch	2621-10388	HY-M	04-Sep-14	13-Sep-14	9	10.6	11.4	+0.8	+7.5%
American Goldfinch	2621-10435	HY-F	06-Sep-14	11-Sep-14	5	11.5	10.8	-0.7	-6.1%
American Goldfinch	2621-10441	HY-M	06-Sep-14	11-Sep-14 13-Sep-14	5 7	13.0 12.5	12.5 12.5	-0.5	-3.8%
American Goldfinch	2621-10453	HY-M	11-Sep-14	13-Sep-14 18-Sep-14	2 7	11.8 10.4	10.4 10.4	-1.4	-11.9%
American Goldfinch	2621-10455	HY-F	11-Sep-14	13-Sep-14	2	11.9	12.0	+0.1	+0.8%
American Goldfinch	2621-10468	HY-M	11-Sep-14	13-Sep-14	2	11.1	11.5	+0.4	+3.6%
American Goldfinch	2621-10482	HY-F	11-Sep-14	02-Oct-14	21	12.1	10.6	-1.5	-12.4%
American Goldfinch	2621-10486	HY-M	11-Sep-14	13-Sep-14	2	12.9	12.4	-0.5	-3.9%
American Goldfinch	2621-10500	HY-F	13-Sep-14	18-Sep-14	5	12.0	12.7	+0.7	+5.8%
American Goldfinch	2621-10503	HY-F	13-Sep-14	18-Sep-14	5	11.4	11.1	-0.3	-2.6%
American Goldfinch	2621-10505	HY-F	13-Sep-14	25-Sep-14	12	12.9	11.8	-1.1	-8.5%
American Goldfinch	2621-10523	HY-F	18-Sep-14	20-Sep-14	2	11.6	11.4	-0.2	-1.7%
American Goldfinch	2621-10529	HY-M	18-Sep-14	20-Sep-14	2	12.4	13.4	+1.0	+8.1%
American Goldfinch	2621-10530	HY-M	18-Sep-14	20-Sep-14	2	12.5	13.5	+1.0	+8.0%
American Goldfinch	2621-10541	HY-F	18-Sep-14	25-Sep-14 27-Sep-14	7 9	12.6 12.1	12.1 11.6	-1.0	-7.9%
American Goldfinch	2621-10554	HY-F	18-Sep-14	25-Sep-14	7	12.3	12.5	+0.2	+1.6%
American Goldfinch	2621-10556	HY-M	18-Sep-14	27-Sep-14 04-Oct-14	9 16	13.6 12.3	12.3 13.3	-0.3	-2.2%
American Goldfinch	2621-10609	HY-M	25-Sep-14	27-Sep-14 04-Oct-14	2 9	13.3 12.7	12.7 13.3	0	0%
American Goldfinch	2621-10630	HY-F	27-Sep-14	02-Oct-14	5	11.2	13.7	+1.5	+13.4%
American Goldfinch	2621-10635	HY-F	27-Sep-14	02-Oct-14 04-Oct-14	5 7	11.1 9.8	9.8 12.0	+0.9	+8.1%

Table 11. Cont'd. (page 6 of 6)

Species	Band No.	Age/Sex	Date Banded	Date Recaptured	No. of days	Original Weight	Weight at Recapture (g)	Gain/Loss (g)	Gain/Loss (%)
American Goldfinch	2621-10649	HY-M	27-Sep-14	04-Oct-14	7	12.3	12.9	+0.6	+4.9%
American Goldfinch	2621-10660	HY-F	02-Oct-14	04-Oct-14 11-Oct-14	2 9	9.4 11.1	11.1 11.9	+2.5	+26.6%
American Goldfinch	2621-10663	HY-M	02-Oct-14	04-Oct-14 09-Oct-14 23-Oct-14	2 7 21	11.0 11.5 13.0	11.5 13.0 14.2	+3.2	+29.1%
American Goldfinch	2621-10670	HY-M	04-Oct-14	09-Oct-14	5	12.5	12.6	+0.1	+0.8%
Minimum Stopover (days)					2	-	-	-	-
Maximum Stopover (days)					84	-	-	-	-
Average Stopover (days)					17.9	-	-	-	-
Total birds with weight gains								100	-
Total birds with weight loss								64	-
Average weight gain									+7.5%
Average weight loss									-4.5%

ACKNOWLEDGMENTS

I would like to thank the park manager for giving us permission to band in the park, and drive our cars into a closed area. I would also like to thank the staff at the Metro Beach Nature Center for their continuing support, especially Julie Champion, and including Chris Becher, Nick Dicresce, Seth Martin, Sarah Matuszak, Michele Serreyn, and Dale Smart.

Banding this spring simply could not have been done without the able assistance of the following 25 volunteers:

John Bieganowski, Mary Buchowski, Terri Chapdelaine, Chris Charlebois, Jacob Charlebois, Annie Crary, David Flack, Jean Gramlich, Caden Gramlich, Mike Hall, Randy Kling, Dave Lancaster, Sara Luca, Steve Mangas, Marie McGee, Ann McKlinsky, Ann Ross, Tom Schlack, Edie Schmitz, Jeff Silence, Joan Tisdale, Sarah Toner, Blanche Wicke, Amy Wilms, and Sue Wright.

FALL 2014 PHOTO HIGHLIGHTS



Hatch-year Green Heron banded on 10 August 2014 was a first ever for the station, and a testament to how wet the banding area was this fall.



After banding an adult Virginia Rail in spring this year, two hatch-years were captured, on the same day this fall (28 August 2014)!



Hatch-year Green Heron banded on 10 August 2014. At this age, they cannot be sexed.



The eye color of hatch-year Virginia Rails is an interesting olive-brown, unlike the red of adults. These two individuals were only the 6th and 7th ever banded at the station.

FALL 2014 PHOTO HIGHLIGHTS



© Allen T. Chartier
This hatch-year female Wilson's Snipe, banded on 25 October 2014, was only the 3rd ever at the station and the first in fall.



© Allen T. Chartier
This after hatch-year Eastern Screech-Owl was captured on 11 October 2014, and had been originally banded here in 2013. It was a "gray morph", but definitely had some brownish tones on the upper parts.



© Allen T. Chartier
The pattern of barring on the outer tail feathers, and their shape, indicated that this was a female Wilson's Snipe.



© Allen T. Chartier
This hatch-year female Belted Kingfisher, banded on 30 August 2014, was the first ever at the station.

FALL 2014 PHOTO HIGHLIGHTS



It was a great opportunity to examine the intricate details of the wing pattern of this hatch-year female Belted Kingfisher.



This hatch-year Eastern Kingbird, banded on 7 August 2014, was one of two this fall.



And the tail pattern was interesting as well.



This hatch-year Great Crested Flycatcher was one of two banded that same day, 20 August 2014, caught in the same net! The adult that was with this hatch-year might have been its parent, but there is no way to know for sure.



But certainly most interesting was its feet, specialized for digging nesting burrows in river banks.

FALL 2014 PHOTO HIGHLIGHTS



This hatch-year Tufted Titmouse, banded on 27 September 2014, was one of a record number of this species banded this fall.



This hatch-year female Northern Parula, banded on 13 September 2014, was one of only two uncommon and "interesting" warbler species this fall.



Although low numbers of Brown Creepers were banded this fall, this individual captured on 30 October 2014 was originally banded in 2011 as a hatch-year, making it a 4th year bird, and the first ever recaptured in a subsequent year; amazing for a species that does not nest in the park, and is fairly rare as a winter resident.



Blackburnian Warblers are scarce in the nets at this station, so this hatch-year male banded on 6 September 2014 was most welcome, and about as colorful as they get this time of year.

FALL 2014 PHOTO HIGHLIGHTS



This hatch-year Chipping Sparrow, banded on 7 August 2014, was only the 4th ever at the station, and the earliest as well, providing the first possible evidence of breeding in or near the banding area.



This after hatch-year White-throated Sparrow, banded on 9 October 2014, had unusual orange lores instead of yellow.



Field Sparrows, like this hatch-year, have become almost annual in recent years, sometimes with multiples captured. This was one of two this fall, banded on 9 October 2014.



This after hatch-year female Rusty Blackbird, banded on 16 October 2014, was the first ever in fall here, and only the 13th overall.