

Fall 2009 Banding Summary

Metro Beach Metropark

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Permit No. 23156

INTRODUCTION

The fall of 2009 was the fifth fall season of a renewed banding study. As with last fall, standing water and muddy net lanes remained in some parts of the banding area after a cool, wet summer, but this year continuing wet and rainy conditions through September and October kept mud in the area until the last banding day, which was a first. All three months were up to 10-degrees cooler than normal. Vegetation suffered considerably due to the large number of deer in the park. Jewelweed was only about a foot tall in early August and hundreds of plants showed evidence of significant browsing being nearly leafless and flowerless. By late August the Jewelweed (*Impatiens capensis*) had grown to about two-feet tall but was extensively browsed once again, and flower production was almost non-existent this fall. Only out by the Field Nets were there a couple normal-sized Jewelweed (4-5 feet tall) with numerous blossoms. The distribution of the capture of Ruby-throated Hummingbirds was clearly affected by this devastation of the Jewelweed. Most were caught in the Field Edge net where two hummingbird feeders were hung during August and September, with many also captured in the Field Nets (74% were caught in these two areas; see Table 3). *Phragmites* continued to expand into the banding area, and the park began an eradication program by spraying in mid-September and a burn is planned in winter, and the process is planned to be repeated over the next four years. The White Ash (*Fraxinus americana*) tree at the center of the Field Nets has died, and the native Alternate-leaved Dogwood (*Cornus alternifolia*) around its base is being crowded out by invasive, non-native Glossy Buckthorn (*Rhamnus frangula*). White-tailed Deer remain a problem in the banding area, destroying 5 mist nets this fall and as usual they are so accustomed to people that they cannot be scared away.

FALL 2009 RESULTS

Banding was conducted on 22 days between 2 August and 31 October with nets open a total of 145.00 hours (1765.44.00 net hours). This is two days short of the desired coverage, but was the second highest number of net hours since 2005. Coverage in mid-September and mid-October was weak and may have resulted in lower captures of warblers and kinglets. The total of 1639 new birds of 71 species was the second highest since 2005. Also there were 231 recaptures and 32 released unbanded, for a total of 1902 captures. The overall capture rate was 107.7 birds per 100 net hours, the second highest since 2005. A comparison of all fall banding results since 2005 is shown in Table 1 below. A hatch-year female Black-throated Blue Warbler banded at 8:57 a.m. (E.S.T.) on September 25 was the 10,000th bird banded at Metro Beach since 2004. Slightly more than 13,000 birds were banded here between 1989-1999.

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

Year	Days	Net Hrs.	No. Banded	No. Recaptures	Released unbanded	Total Captures	Capture Rate*	Species
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

*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 between 1989-2008. Before 2008 no more than two such days per fall season was the norm. This season there were seven days with more than 100 birds: 203 on 14 October (all-time record), 152 on 30 September, 128 on 25 September, 125 on 4 October, 120 on 26 September, 115 on 27 August, and 103 on 28 October. It seems likely that the addition of the very productive Field Nets, which have greatly increased the captures of Song Sparrows, Swamp Sparrows, Common Yellowthroats, and American Goldfinches in particular is the main factor in the increasing number of 100+ bird days.

Ruby-throated Hummingbird numbers were the second lowest since 2005, very likely due to the devastation of their main food plant in the banding area by deer browsing. Flycatchers had a good showing this fall, with 55 individual *Empidonax* of four species and good numbers of Eastern Wood-Pewees and Eastern Phoebe (5 each). Vireos showed a modest increase over recent years, which have been well below 1990-1999 averages, including only the second Philadelphia Vireo banded here since 2005. Wrens were captured in good numbers with a record for House Wren and a near record for Winter Wrens. Kinglets and thrushes were captured in fairly good numbers, with the exceptions being Veery which continued in very low numbers and Hermit Thrush which had a season total just shy of the record, with a single day record of 72 banded on 14 October. American Robins and Cedar Waxwings were banded in record numbers. Warblers were generally in average to low numbers, and once again this may be due to a shortage of volunteers during their peak of migration in mid-September. Three warbler species that are normally captured in low numbers set records this fall; Northern Parula (4), Palm Warbler (4), and Mourning Warbler (10). Common Yellowthroat and Wilson's Warbler were captured in numbers close to last fall's records. The number of Northern Cardinals was much below what is expected and perhaps they did not have a productive breeding season. After record numbers for most sparrow species last fall, captures this year returned to more normal but still good levels. Lincoln's Sparrow and Dark-eyed Juncos were captured in record numbers for fall, while American Tree Sparrow was captured for only the second time in fall. Fox Sparrows remained absent from the nets until the last day of the season, which is puzzling as normally they arrive in late September or early October. Good numbers of American Goldfinches were captured, well above most recent years but well below last year's record. Details for all species captured this fall are shown in Table 5 below.

The Olive-sided Flycatcher was the first ever banded here in the fall season. Other infrequently captured species included a Yellow-bellied Sapsucker, a Red-breasted Nuthatch, five Marsh Wrens, a Wood Thrush, four Northern Parulas, a Blackburnian Warbler, two Rose-breasted Grosbeaks, two Indigo Buntings, and an Eastern Towhee.

There were several interesting early and late records this fall. Early birds included: Brown Creeper on 17 September, two Swainson's Thrushes on 2 August, Tennessee Warbler on 4 August, American Tree Sparrow on 28 October, and Dark-eyed Juncos on 25 September. Late birds included: Eastern Wood-Pewee on 4 October, Yellow-bellied Flycatcher on 30 September, Swainson's Thrush on 14 October, Nashville Warbler on 22 October, Yellow-rumped Warbler on 31 October, Blackpoll Warbler on 22 October, Black-and-white Warbler on 30 September, Ovenbird on 22 October, Common Yellowthroat on 14 October, Wilson's Warbler on 26 September, Rose-breasted Grosbeak on 30 September, and Eastern Towhee on 28 October. Details of first and last dates, peak dates and peak numbers for all species can be found in Table 6 below.

CAPTURES BY HABITAT

Breaking down the captures by net groups, on a per-net basis the Field Nets were clearly the most productive, with the remaining nets similar in capture rate with the Field Edge slightly higher probably due to the dominance of Ruby-throated Hummingbirds there. Reduced undergrowth due to extensive deer browsing near the Willow Nets may account for the lower capture rate there, while the Upland Nets were sometimes exposed to windy conditions as well as reduced undergrowth, which may account for the lower capture rate there. Captures by net group for selected species is shown in Table 3 below.

Table 2. Captures by net groups.

Net Group	No. captured	% captured	% per net
Field (2.5 nets)	845	51.6%	20.6%
Field Edge (1.0 net)	112	6.8%	6.8%
Willow (2.5 nets)	198	12.1%	4.8%
Upland (3.75 nets)	256	15.6%	4.2%
Swamp (3.5 nets)	227	13.8%	3.9%

Table 3. Percent of captures per net group for selected species.

Species	Field	Field Edge	Willow	Upland	Swamp
Ruby-throated Hummingbird	31.3%	42.3%	14.0%	3.1%	9.3%
<i>Empidonax</i> Flycatchers	85.4%	7.3%	-	7.3%	-
Brown Creeper	-	-	-	30.8%	69.2%
Golden-crowned Kinglet	4.7%	-	7.8%	29.7%	57.8%
Ruby-crowned Kinglet	28.1%	10.9%	15.6%	26.6%	18.8%
Swainson's Thrush	5.7%	7.5%	18.9%	47.2%	20.7%
Hermit Thrush	22.9%	11.1%	9.1%	33.1%	23.8%
American Robin	19.4%	4.8%	19.4%	43.5%	12.9%
Cedar Waxwing	89.8%	5.1%	-	5.1%	-
Nashville Warbler	80.4%	-	4.4%	6.5%	8.7%
Yellow Warbler	96.4%	-	-	0.6%	-
Magnolia Warbler	34.4%	3.1%	25.0%	21.9%	15.6%
Black-throated Blue Warbler	5.0%	5.0%	15.0%	37.5%	37.5%
Common Yellowthroat	66.7%	8.6%	18.5%	6.2%	-
Wilson's Warbler	84.7%	-	3.8%	7.7%	3.8%
All warblers	55.8%	4.2%	10.4%	15.2%	14.4%
Song Sparrow	78.1%	2.8%	12.8%	2.1%	4.2%
Swamp Sparrow	87.7%	4.4%	6.1%	1.8%	-
White-throated Sparrow	30.6%	6.3%	35.0%	5.0%	23.1%
American Goldfinch	99.1%	-	0.9%	-	-

AGE RATIOS

The proportion of adult to young White-throated Sparrows returned to normal this fall, with 11% adult to 89% hatch-year. The proportion of hatch-year Swainson's Thrushes was 83%, and the proportion of hatch-year Hermit Thrushes was 92%. A good number of birds showing breeding evidence (brood patches in females and cloacal protuberances in males) were captured this fall, including 37 individuals of 12 species. Details can be found in Table 7 below. In addition, large numbers of young Cedar Waxwings (25), Common Yellowthroats (72), Yellow Warblers (26), Song Sparrows (130), and Swamp Sparrows (98) were captured indicating a very good breeding season for these species in the marsh. In addition, one Tennessee Warbler was captured with a brood patch but it is apparent that more than one adult arrived in the banding area to molt before continuing migration, and this individual left the banding area before its brood patch had receded.

RETURNS, RECAPTURES & FOREIGN RE-ENCOUNTERS

The overall number of recaptures this fall was the second highest to date. The returns of 37 individuals from previous years and seasons are summarized in Table 4 below. Details of these returns can be found in Tables 8-13. The Location column (Loc) in each of these tables gives an idea of the movements or territory of these individuals. Recaptures within the same season along with weight gains/losses are listed in Table 14 below.

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. There are two such re-encounters to report.

- An American Robin banded on 13 May 2007 as an A2Y-M was found dead near Hightog, Lamar County, Alabama (673 miles SW of Metro Beach) on 23 December 2008.
- A Gray Catbird banded on 25 May 2009 as a 2Y-U was found dead near Stevensville, Niagara Region, Ontario, Canada (195 miles ENE of Metro Beach) on 13 June 2009.

Table 4. Returns by year.

	Banded in spring 2009	Banded in 2008	Banded in 2007	Banded in 2006	Banded in 2005	Banded in 2004
2005 Returns No. (species)	-	-	-	-	6 (3)	0 (0)
2006 Returns No. (species)	-	-	-	5 (4)	20 (9)	3 (3)
2007 Returns No. (species)	-	-	8 (4)	8 (5)	7 (4)	1 (1)
2008 Returns No. (species)	-	12 (6)	14 (7)	4 (4)	6 (3)	0 (0)
2009 Returns No. (species)	12 (8)	16 (7)	4 (3)	0 (0)	4 (4)	1 (1)

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.

A total of 127 individuals of 19 species banded this fall were recaptured on subsequent days to document stopover duration and measure weight gains or losses. Weight gains of 69 individuals averaged 8.1% while losses of 50 individuals averaged 6.6%. Changes of about 3% or less are likely within the range of daily variation for most species and may not be significant. The greatest weight gains included 30.6% in 63 days by a Song Sparrow, 24.8% in 34 days by a Swamp Sparrow, 23.9% in 45 days by a Song Sparrow, 20.7% in 13 days by a Gray Catbird, 18.1% in 8 days by a Hermit Thrush, 18.0% in 9 days by a Hermit Thrush, and 17.4% in 3 days by a Song Sparrow. Some equally significant weight losses were recorded, including 28.2% in 18 days by a hatch-year American Robin, 17.4% in 9 days by a hatch-year Song Sparrow, and 16.8% in 29 days by a hatch-year Common Yellowthroat. These may be young birds that have not learned to feed themselves properly and may not complete their migration.

Only one Ruby-crowned Kinglet was recaptured this fall, and it lost weight during its 6 day stay indicating that these diurnal migrants may not have been using the banding area to stop over this year. Stopover duration of the 12 Hermit Thrushes recaptured ranged from 1-13 days, with only two losing weight and the other 11 gaining 1.1% to 18.1%. Only four individual migrant warblers, of four species, were recaptured with stopovers ranging from 2-5 days with three gaining weight and one staying the same weight. Locally breeding Common Yellowthroats were recaptured in good numbers, especially the hatch-years birds, with a total of 21, staying over from 2-29 days, and 11 lost weight and eight gained weight. Locally breeding Song Sparrows provided the greatest number of recaptures, with 41 mostly hatch-year birds. A total of 13 White-throated Sparrows was recaptured, with stopover durations ranging from 4-13 days; four lost weight, two remained the same, and seven gained weight. Table 14 below provides details of weight gains and losses detected during Fall 2009.

It is clear that this small, and rather isolated patch of habitat at Metro Beach 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 increasing population of deer may increasingly be degrading the usefulness of the site for birds.

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Table 5. Birds banded at Metro Beach Metropark in Fall 2009, compared with 2008, and the 1990-1999 average. (**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 avg.	Fall 2008	#/100 NH (2008)	Fall 2009	#/100 NH (2009)
Sharp-shinned Hawk	0.2 (0.02)	1	0.05	-	-
Broad-winged Hawk	-	-	-	-	-
Virginia Rail	0.1 (0.01)	-	-	-	-
American Woodcock	-	1	0.05	-	-
Mourning Dove	0.1 (0.01)	-	-	-	-
Black-billed Cuckoo	0.5 (0.04)	-	-	-	-
Yellow-billed Cuckoo	0.1 (0.01)	-	-	-	-
Ruby-throated Hummingbird	-	74	3.91	64	3.63
Red-bellied Woodpecker	-	1	0.05	-	-
Yellow-bellied Sapsucker	0.5 (0.04)	1	0.05	1	0.06
Downy Woodpecker	4.5 (0.38)	12¹	0.63	10	0.57
Hairy Woodpecker	0.2 (0.02)	1	0.05	-	-
Northern Flicker	0.7 (0.06)	6¹	0.32	3	0.17
<i>Olive-sided Flycatcher</i>	-	-	-	1	0.06
Eastern Wood-Pewee	1.5 (0.13)	1	0.05	5	0.28
Yellow-bellied Flycatcher	6.9 (0.59)	5	0.26	10	0.57
Acadian Flycatcher	0.5 (0.05)	-	-	-	-
Alder Flycatcher	-	1	0.05	4³	0.23
Willow Flycatcher	-	3³	0.16	8¹	0.45
“Traill’s” Flycatcher	1.1 (0.09)	6	0.32	11³	0.62
Least Flycatcher	2.6 (0.22)	10	0.53	22³	1.25
Eastern Phoebe	0.9 (0.08)	4	0.21	5⁴	0.28
Great Crested Flycatcher	1.2 (0.10)	-	-	-	-
Blue-headed Vireo	2.5 (0.22)	2	0.11	5	0.28
Warbling Vireo	3.0 (0.26)	1	0.05	9	0.51
Philadelphia Vireo	4.0 (0.34)	1	0.05	1	0.06
Red-eyed Vireo	10.2 (0.87)	1	0.05	9	0.51
Blue Jay	4.5 (0.39)	3	0.16	1	0.06
Barn Swallow	-	1	0.05	-	-
Black-capped Chickadee	11.4 (0.97)	10	0.53	12	0.68
Tufted Titmouse	0.6 (0.05)	4¹	0.21	-	-
Red-breasted Nuthatch	0.4 (0.03)	-	-	1	0.06
White-breasted Nuthatch	0.2 (0.02)	-	-	-	-
Brown Creeper	5.4 (0.46)	21¹	1.11	13	0.74
Carolina Wren	0.8 (0.07)	2	0.11	-	-
House Wren	3.9 (0.33)	23¹	1.22	27¹	1.53
Winter Wren	6.2 (0.53)	22¹	1.16	21	1.19

Table 5. Cont'd. (page 2 of 3)

Species	1990-1999 avg.	Fall 2008	#/100 NH (2008)	Fall 2009	#/100 NH (2009)
Marsh Wren	9.5 (0.81)	7	0.37	5	0.28
Golden-crowned Kinglet	38.6 (3.29)	46	2.43	64	3.63
Ruby-crowned Kinglet	35.6 (3.03)	41	2.17	64	3.63
Blue-gray Gnatcatcher	0.1 (0.01)	-	-	-	-
Veery	3.9 (0.33)	1	0.05	2	0.11
Gray-cheeked Thrush	11.2 (0.95)	2	0.11	14	0.79
Swainson's Thrush	43.9 (3.74)	28	1.48	53	3.00
Hermit Thrush	25.7 (2.19)	89	4.71	109	6.17
Wood Thrush	1.4 (0.12)	3	0.16	1	0.06
American Robin	2.9 (0.25)	25	1.32	62¹	3.51
Gray Catbird	21.6 (1.84)	23	1.22	29	1.64
Brown Thrasher	0.1 (0.01)	1	0.05	-	-
European Starling	-	1	0.05	-	-
Cedar Waxwing	7.4 (0.63)	6	0.32	39¹	2.21
Blue-winged Warbler	-	-	-	-	-
Golden-winged Warbler	0.4 (0.03)	-	-	-	-
Tennessee Warbler	4.7 (0.40)	12	0.63	7	0.40
Orange-crowned Warbler	1.0 (0.09)	5	0.26	8	0.45
Nashville Warbler	8.5 (0.73)	27	1.43	46	2.61
Northern Parula	0.5 (0.05)	-	-	4¹	0.23
Yellow Warbler	2.4 (0.20)	45³	2.38	28	1.59
Chestnut-sided Warbler	8.3 (0.70)	8	0.42	8	0.45
Magnolia Warbler	78.0 (6.64)	42	2.22	32	1.81
Cape May Warbler	0.8 (0.07)	-	-	-	-
Black-throated Blue Warbler	15.5 (1.32)	50¹	2.64	40	2.27
Yellow-rumped Warbler	11.1 (0.94)	3	0.16	7	0.40
Black-throated Green Warbler	1.2 (0.10)	-	-	3	0.17
Blackburnian Warbler	1.0 (0.09)	1	0.05	1	0.06
(Western) Palm Warbler	0.5 (0.05)	3	0.16	4²	0.23
Bay-breasted Warbler	6.1 (0.52)	1	0.05	2	0.11
Blackpoll Warbler	11.7 (1.00)	2	0.11	6	0.34
Black-and-white Warbler	9.5 (0.81)	4	0.21	4	0.23
American Redstart	41.6 (3.54)	30	1.59	9	0.51
Prothonotary Warbler	0.1 (0.01)	-	-	-	-
Ovenbird	7.9 (0.67)	13	0.69	14	0.79
Northern Waterthrush	9.4 (0.80)	13	0.69	10	0.57
Connecticut Warbler	0.5 (0.05)	2²	0.11	-	-
Mourning Warbler	2.7 (0.23)	8	0.42	10³	0.57
Common Yellowthroat	16.9 (1.44)	97¹	5.13	81	4.59
Wilson's Warbler	13.7 (1.17)	30¹	1.59	26	1.47

Table 5. Cont'd. (page 3 of 3)

Species	1990-1999 avg.	Fall 2008	#/100 NH (2008)	Fall 2009	#/100 NH (2009)
Canada Warbler	5.5 (0.46)	6	0.32	5	0.28
Hooded Warbler	-	-	-	-	-
Yellow-breasted Chat	0.1 (0.01)	-	-	-	-
Scarlet Tanager	0.1 (0.01)	-	-	-	-
Northern Cardinal	6.1 (0.52)	15	0.79	8	0.45
Rose-breasted Grosbeak	2.3 (0.19)	1	0.05	2	0.11
Indigo Bunting	0.3 (0.02)	-	-	2³	0.11
Eastern Towhee	-	1	0.05	1	0.06
American Tree Sparrow	-	5²	0.26	3	0.17
Chipping Sparrow	-	-	-	-	-
Field Sparrow	0.2 (0.02)	1	0.05	-	-
Fox Sparrow	1.7 (0.15)	7	0.37	2	0.11
Song Sparrow	46.7 (3.98)	220¹	11.63	141	7.99
Lincoln's Sparrow	1.5 (0.13)	11³	0.58	15³	0.85
Swamp Sparrow	16.8 (1.43)	143¹	7.56	114	6.51
White-throated Sparrow	56.7 (4.83)	285¹	15.07	160	9.06
White-crowned Sparrow	1.8 (0.15)	5	0.26	7	0.40
Dark-eyed Junco	1.1 (0.09)	4²	0.21	9¹	0.51
Red-winged Blackbird	1.1 (0.09)	13	0.69	17	0.96
Common Grackle	0.2 (0.02)	-	-	3⁴	0.17
Brown-headed Cowbird	0.1 (0.01)	1	0.05	-	-
Orchard Oriole	-	-	-	-	-
Baltimore Oriole	-	-	-	8	0.45
Purple Finch	0.1 (0.01)	1²	0.05	-	-
House Finch	3.7 (0.32)	2	0.11	-	-
Common Redpoll	0.1 (0.01)	-	-	-	-
American Goldfinch	3.2 (0.27)	233¹	12.32	107	6.06

Table 6. Birds banded at Metro Beach Metropark in Fall 2009, earliest, latest, and peak numbers. Unusual species, dates, or numbers are boldfaced.

Species	Earliest Date	Latest Date	Peak No.	Peak Date
Sharp-shinned Hawk	-	-	-	-
Broad-winged Hawk	-	-	-	-
Virginia Rail	-	-	-	-
American Woodcock	-	-	-	-
Mourning Dove	-	-	-	-
Black-billed Cuckoo	-	-	-	-
Yellow-billed Cuckoo	-	-	-	-
Ruby-throated Hummingbird	02-Aug-09	25-Sep-09	12	03-Sep-09
Red-bellied Woodpecker	-	-	-	-
Yellow-bellied Sapsucker	26-Sep-09	26-Sep-09	1	26-Sep-09
Downy Woodpecker	02-Aug-09	22-Oct-09	3	22-Oct-09
Hairy Woodpecker	-	-	-	-
Northern Flicker	30-Sep-09	30-Sep-09	3	30-Sep-09
Olive-sided Flycatcher	15-Aug-09	15-Aug-09	1	15-Aug-09
Eastern Wood-Pewee	02-Aug-09	04-Oct-09	2	23-Aug-09
Yellow-bellied Flycatcher	15-Aug-09	30-Sep-09	3	27-Aug-09
Acadian Flycatcher	-	-	-	-
Alder Flycatcher	15-Aug-09	27-Aug-09	2	27-Aug-09
Willow Flycatcher	04-Aug-09	27-Aug-09	3	13-Aug-09
“Traill’s” Flycatcher	02-Aug-09	06-Sep-09	5	27-Aug-09
Least Flycatcher	13-Aug-09	26-Sep-09	5	2 dates
Eastern Phoebe	26-Sep-09	28-Oct-09	2	14-Oct-09
Great Crested Flycatcher	-	-	-	-
Blue-headed Vireo	25-Sep-09	04-Oct-09	3	25-Sep-09
Warbling Vireo	02-Aug-09	27-Aug-09	2	3 dates
Philadelphia Vireo	17-Sep-09	17-Sep-09	1	17-Sep-09
Red-eyed Vireo	05-Sep-09	30-Sep-09	2	3 dates
Blue Jay	17-Sep-09	17-Sep-09	1	17-Sep-09
Barn Swallow	-	-	-	-
Black-capped Chickadee	02-Aug-09	28-Oct-09	3	23-Aug-09
Tufted Titmouse	-	-	-	-
Red-breasted Nuthatch	04-Oct-09	04-Oct-09	1	04-Oct-09
White-breasted Nuthatch	-	-	-	-
Brown Creeper	17-Sep-09	22-Oct-09	4	14-Oct-09
Carolina Wren	-	-	-	-
House Wren	02-Aug-09	04-Oct-09	4	2 dates
Winter Wren	25-Sep-09	31-Oct-09	5	2 dates
Marsh Wren	04-Aug-09	08-Oct-09	2	04-Aug-09
Golden-crowned Kinglet	30-Sep-09	31-Oct-09	25	04-Oct-09

Table 6. Cont'd. (page 2 of 3)

Species	Earliest Date	Latest Date	Peak No.	Peak Date
Ruby-crowned Kinglet	13-Sep-09	28-Oct-09	34	14-Oct-09
Blue-gray Gnatcatcher	-	-	-	-
Veery	27-Aug-09	03-Sep-09	1	Both dates
Gray-cheeked Thrush	17-Sep-09	04-Oct-09	4	2 dates
Swainson's Thrush	02-Aug-09	14-Oct-09	11	17-Sep-09
Hermit Thrush	25-Sep-09	28-Oct-09	72	14-Oct-09
Wood Thrush	25-Sep-09	25-Sep-09	1	25-Sep-09
American Robin	02-Aug-09	31-Oct-09	10	26-Sep-09
Gray Catbird	02-Aug-09	14-Oct-09	6	25-Sep-09 26-Sep-09
Brown Thrasher	-	-	-	-
European Starling	-	-	-	-
Cedar Waxwing	02-Aug-09	03-Sep-09	10	23-Aug-09
Blue-winged Warbler	-	-	-	-
Golden-winged Warbler	-	-	-	-
Tennessee Warbler	04-Aug-09	25-Sep-09	3	25-Sep-09
Orange-crowned Warbler	25-Sep-09	14-Oct-09	3	26-Sep-09
Nashville Warbler	27-Aug-09	22-Oct-09	12	06-Sep-09
Northern Parula	05-Sep-09	17-Sep-09	2	17-Sep-09
Yellow Warbler	02-Aug-09	27-Aug-09	14	04-Aug-09
Chestnut-sided Warbler	27-Aug-09	04-Oct-09	5	27-Aug-09
Magnolia Warbler	27-Aug-09	04-Oct-09	7	27-Aug-09
Cape May Warbler	-	-	-	-
Black-throated Blue Warbler	23-Aug-09	22-Oct-09	9	30-Sep-09
Yellow-rumped Warbler	26-Sep-09	31-Oct-09	4	30-Sep-09
Black-throated Green Warbler	17-Sep-09	04-Oct-09	2	04-Oct-09
Blackburnian Warbler	27-Aug-09	27-Aug-09	1	27-Aug-09
(Western) Palm Warbler	17-Sep-09	30-Sep-09	3	30-Sep-09
Bay-breasted Warbler	30-Sep-09	30-Sep-09	2	30-Sep-09
Blackpoll Warbler	30-Sep-09	22-Oct-09	4	30-Sep-09
Black-and-white Warbler	27-Aug-09	30-Sep-09	2	27-Aug-09
American Redstart	27-Aug-09	30-Sep-09	3	25-Sep-09
Prothonotary Warbler	-	-	-	-
Ovenbird	27-Aug-09	22-Oct-09	5	27-Aug-09
Northern Waterthrush	13-Aug-09	30-Sep-09	2	4 dates
Connecticut Warbler	-	-	-	-
Mourning Warbler	20-Aug-09	11-Sep-09	3	27-Aug-09
Common Yellowthroat	02-Aug-09	14-Oct-09	12	2 dates
Wilson's Warbler	27-Aug-09	26-Sep-09	11	27-Aug-09
Canada Warbler	23-Aug-09	27-Aug-09	4	27-Aug-09

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

Species	Earliest Date	Latest Date	Peak No.	Peak Date
Hooded Warbler	-	-	-	-
Yellow-breasted Chat	-	-	-	-
Scarlet Tanager	-	-	-	-
Northern Cardinal	25-Sep-09	14-Oct-09	3	08-Oct-09
Rose-breasted Grosbeak	26-Sep-09	30-Sep-09	1	Both dates
Indigo Bunting	13-Sep-09	30-Sep-09	1	Both dates
Eastern Towhee	28-Oct-09	28-Oct-09	1	28-Oct-09
American Tree Sparrow	28-Oct-09	31-Oct-09	2	28-Oct-09
Chipping Sparrow	-	-	-	-
Field Sparrow	-	-	-	-
Fox Sparrow	31-Oct-09	31-Oct-09	2	31-Oct-09
Song Sparrow	02-Aug-09	28-Oct-09	23	28-Oct-09
Lincoln's Sparrow	17-Sep-09	14-Oct-09	5	30-Sep-09
Swamp Sparrow	04-Aug-09	28-Oct-09	17	30-Sep-09
White-throated Sparrow	25-Sep-09	28-Oct-09	42	30-Sep-09
White-crowned Sparrow	25-Sep-09	14-Oct-09	3	30-Sep-09
Dark-eyed Junco	25-Sep-09	31-Oct-09	3	2 dates
Red-winged Blackbird	04-Aug-09	17-Sep-09	13	13-Aug-09
Common Grackle	13-Aug-09	13-Aug-09	3	13-Aug-09
Brown-headed Cowbird	-	-	-	-
Orchard Oriole	-	-	-	-
Baltimore Oriole	04-Aug-09	27-Aug-09	4	23-Aug-09
Purple Finch	-	-	-	-
House Finch	-	-	-	-
Common Redpoll	-	-	-	-
American Goldfinch	20-Aug-09	31-Oct-09	31	28-Oct-09

Table 7. Breeding Evidence of Birds captured at Metro Beach Metropark in Fall 2009
(BP=Brood Patch, CP=Cloacal Protuberance, 1=min., 3=max., 4=diminishing)

Species	Age/Sex	Band No.	Date Banded	Dates Recaptured	Breeding Evidence Observed
Downy Woodpecker	SY-F	2431-38105	04-Aug-09	-	BP=3
Downy Woodpecker	SY-F	2431-38126	13-Aug-09	-	BP=4
Eastern Wood-Pewee	AHY-F	2560-75161	23-Aug-09	-	BP=3
Willow Flycatcher	AHY-F	2560-75110	13-Aug-09	-	BP=4
Least Flycatcher	AHY-F	2560-75117	13-Aug-09	-	BP=4
Least Flycatcher	AHY-F	2560-75212	05-Sep-09	-	BP=4
House Wren	AHY-F	2560-75074	02-Aug-09	-	BP=4
House Wren	AHY-F	2560-75095	04-Aug-09	-	BP=4
American Robin	AHY-F	1232-43648	02-Aug-09	-	BP=3
American Robin	AHY-F	1232-43653	13-Aug-09	-	BP=4
American Robin	AHY-F	1232-43654	13-Aug-09	-	BP=4
American Robin	AHY-F	1232-43663	27-Aug-09	-	BP=4
American Robin	AHY-F	1232-43666	27-Aug-09	-	BP=4
American Robin	AHY-F	1232-43684	04-Oct-09	-	BP=4
American Robin	AHY-F	1232-43688	04-Oct-09	-	BP=4
Gray Catbird	AHY-F	2231-53405	08-May-09	04-Aug-09	BP=3
Cedar Waxwing	AHY-F	2431-38092	02-Aug-09	-	BP=2
Cedar Waxwing	AHY-F	2431-38093	02-Aug-09	-	BP=3
Cedar Waxwing	AHY-F	2431-38112	04-Aug-09	-	BP=3
Cedar Waxwing	AHY-F	2431-38146	15-Aug-09	-	BP=3
Yellow Warbler	AHY-M	2560-75030	23-May-09	02-Aug-09	CP=2
Common Yellowthroat	AHY-F	2540-26512	26-Sep-08	04-Aug-09	BP=3, egg?
Common Yellowthroat	AHY-F	2360-85974	21-May-09	02-Aug-09	BP=3
Common Yellowthroat	AHY-F	2560-75113	13-Aug-09	-	BP=4
Song Sparrow	AHY-F	1961-11714	14-Aug-05	02-Aug-09	BP=3
Song Sparrow	AHY-M	2281-10870	26-Sep-08	04-Aug-09	CP=2
Song Sparrow	AHY-F	2431-25867	01-Nov-08	04-Aug-09	BP=4
Song Sparrow	AHY-F	2431-38080	06-Jun-09	02-Aug-09 13-Aug-09	BP=3 BP=4
Song Sparrow	AHY-F	2431-38091	02-Aug-09	-	BP=3
Song Sparrow	AHY-F	2431-38101	04-Aug-09	-	BP=3
Song Sparrow	AHY-F	2431-38106	04-Aug-09	- 15-Aug-09	BP=3 BP=3
American Goldfinch	AHY-F	2391-16217	27-Aug-09	-	BP=3
American Goldfinch	AHY-F	2391-16227	27-Aug-09	-	BP=3
American Goldfinch	SY-F	2391-16248	06-Sep-09	-	BP=4
American Goldfinch	SY-F	2391-16259	06-Sep-09	-	BP=4
American Goldfinch	SY-F	2391-16261	06-Sep-09	-	BP=4
American Goldfinch	SY-F	2391-16267	06-Sep-09	-	BP=4

Table 8. Returns from 2004

Species	Band No.	Date Banded	Age/Sex	Date Recap.	Age/Sex	No. of Days	Loc *
Baltimore Oriole	8101-31330	29-May-04	2Y-M	15-Aug-09	7Y-M	1904	U

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

Table 9. Returns from 2005

Species	Band No.	Date Banded	Age/Sex	Date Recap.	Age/Sex	No. of Days	Loc *
Black-capped Chickadee	2360-85187	04-Oct-05	HY-U	04-Oct-09	5Y-U	1461	U
American Robin	1222-19051	03-Sep-05	HY-U	26-Sep-09	5Y-M	1484	U
Song Sparrow	1961-11714	14-Aug-05	HY-U	02-Aug-09	5Y-F	1449	F
Northern Cardinal	8101-31391	03-Apr-05	AHY-F	08-Oct-09	A5Y-F	1649	U

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

Table 10. Returns from 2006

Species	Band No.	Date Banded	Age/Sex	Date Recap.	Age/Sex	No. of Days	Loc *
NONE----->							

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

Table 11. Returns from 2007

Species	Band No.	Date Banded	Age/Sex	Date Recap.	Age/Sex	No. of Days	Loc *
American Robin	1222-42974	14-Apr-07	AHY-M	23-Aug-09	A3Y-M	862	F
Song Sparrow	2281-10214	16-Aug-07	HY-U	(24-Apr-09) (08-May-09) 23-Aug-09	3Y-F	617 631 738	W U SW
Song Sparrow	2281-10323	24-Sep-07	AHY-U	(05-Apr-09) (17-Apr-09) (25-Apr-09) (10-May-09) 04-Aug-09 08-Oct-09	A3Y-M	559 571 579 594 680 745	F W W W SW W
American Goldfinch	1601-24758	17-Apr-07	2Y-F	28-Oct-09	4Y-F	925	F

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

Table 12. Returns from 2008

Species	Band No.	Date Banded	Age/Sex	Date Recap.	Age/Sex	No. of Days	Loc *
Downy Woodpecker	2291-90935	16-Oct-08	HY-M	22-Oct-09	2Y-M	371	F
Hairy Woodpecker	1232-43453	18-Oct-08	HY-M	15-Aug-09	2Y-M	301	W
Black-capped Chickadee	2500-25773	06-Sep-08	AHY-U	14-Oct-09 28-Oct-09	A2Y-U	403 417	W SW
Black-capped Chickadee	2540-26538	23-Oct-08	HY-U	25-Sep-09 22-Oct-09	2Y-U	337 364	U W
Black-capped Chickadee	2540-26539	23-Oct-08	HY-U	04-Oct-09	2Y-U	346	U
Gray Catbird	1991-96140	13-Aug-08	HY-U	(05-Jun-09) 02-Aug-09	2Y-M 2Y-M	296 354	F SW
Yellow Warbler	2500-25610	09-Aug-08	AHY-F	04-Aug-09	A2Y-F	360	F
Common Yellowthroat	2360-85974	21-May-08	SY-F	02-Aug-09	3Y-F	438	F
Common Yellowthroat	2500-25800	20-Sep-08	HY-U	06-Sep-09	2Y-F	351	F
Common Yellowthroat	2540-26512	26-Sep-08	HY-U	04-Aug-09	2Y-F	312	F
Song Sparrow	2281-10711	05-Jun-08	AHY-F	(02-May-09) (06-Jun-09) 27-Aug-09	A2Y-F	331 366 448	W W W
Song Sparrow	2281-10716	09-Aug-08	HY-U	(05-Jun-09) (06-Jun-09) 17-Sep-09	2Y-M	300 301 404	U U F
Song Sparrow	2281-10726	09-Aug-08	HY-U	(17-Apr-09) (02-May-09) 11-Sep-09	2Y-M	251 266 398	F FE F
Song Sparrow	2281-10727	09-Aug-08	HY-U	08-Oct-09	2Y-U	425	U
Song Sparrow	2281-10870	26-Sep-08	AHY-U	04-Aug-09	A2Y-M	312	F
Song Sparrow	2431-25867	01-Nov-08	HY-U	04-Aug-09	2Y-F	276	F

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

Table 13. Returns from spring 2009

Species	Band No.	Date Banded	Age/Sex	Date Recap.	Age/Sex	No. of Days	Loc *
American Robin	1232-43632	05-Jun-09	AHY-M	17-Sep-09	AHY-M	104	W
Gray Catbird	2231-53405	08-May-09	2Y-U	04-Aug-09	2Y-F	88	U
Yellow Warbler	2540-26632	02-May-09	2Y-M	04-Aug-09	2Y-M	94	F
Yellow Warbler	2540-26659	08-May-09	2Y-M	(10-May-09) (29-May-09) 02-Aug-09 04-Aug-09	2Y-M	2 21 86 88	U U F U
Yellow Warbler	2560-75030	23-May-09	2Y-M	02-Aug-09	2Y-M	71	F
Common Yellowthroat	2560-75052	29-May-09	AHY-M	05-Sep-09 17-Sep-09	AHY-M	99 111	F F
Song Sparrow	2431-25923	05-Apr-09	A2Y-M	(18-Apr-09) 04-Aug-09 27-Aug-09	A2Y-M	13 121 144	SW SW SW
Song Sparrow	2431-25924	05-Apr-09	2Y-U	(11-Apr-09) 27-Aug-09	2Y-F	6 144	FE W
Song Sparrow	2431-38080	06-Jun-09	AHY-F	02-Aug-09 13-Aug-09	AHY-F	57 68	F F
Swamp Sparrow	2391-16144	10-May-09	A2Y-M	04-Oct-09	A2Y-M	147	F
Northern Cardinal	1232-43512	17-Apr-09	AHY-F	04-Oct-09	AHY-F	170	FE
Baltimore Oriole	2231-53461	23-May-09	2Y-M	23-Aug-09	2Y-M	92	F

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

Table 14. Same Season Recaptures (with weight gain or loss noted)
(*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>	H-60952	HY-M	23-Aug-09	27-Aug-09	4	2.9	2.8	-0.1	-3.4%
<i>House Wren</i>	2560-75095	AHY-F	04-Aug-09	17-Sep-09	44	10.4	10.0	-0.4	-3.8%
<i>House Wren</i>	2560-75133	HY-U	15-Aug-09	03-Sep-09	19	11.0	11.8	+0.8	+7.2%
<i>House Wren</i>	2560-75167	HY-U	27-Aug-09	11-Sep-09 30-Sep-09 08-Oct-09	15 34 42	10.4 11.3 11.2	11.3 11.2 11.6	+1.2	+11.5%
<i>House Wren</i>	2560-75223	HY-U	05-Sep-09	11-Sep-09 13-Sep-09 25-Sep-09	6 8 20	10.3 11.0 11.2	11.0 11.2 11.8	+1.5	+14.6%
<i>House Wren</i>	2560-75229	HY-U	06-Sep-09	11-Sep-09	5	8.8	10.0	+1.2	+13.6%
<i>Ruby-crowned Kinglet</i>	2550-22477	HY-F	08-Oct-09	14-Oct-09	6	6.0	5.5	-0.5	-8.3%
<i>Gray-cheeked Thrush</i>	2431-38339	HY-U	26-Sep-09	30-Sep-09	4	32.0	33.3	+1.3	+4.0%
<i>Swainson's Thrush</i>	2431-38094	AHY-U	02-Aug-09	04-Aug-09	2	31.6	27.4	-4.2	-13.3%
<i>Swainson's Thrush</i>	2431-38381	HY-U	30-Sep-09	04-Oct-09	4	31.2	29.4	-1.8	-5.8%
<i>Hermit Thrush</i>	2431-38259	HY-U	25-Sep-09	30-Sep-09	5	30.8	30.5	-0.3	-1.0%
<i>Hermit Thrush</i>	2431-38277	HY-U	25-Sep-09	04-Oct-09 08-Oct-09	9 13	27.3 31.1	31.1 29.6	+2.3	+8.4%
<i>Hermit Thrush</i>	2431-38278	HY-U	25-Sep-09	30-Sep-09 04-Oct-09	5 9	25.5 28.5	28.5 30.1	+4.6	+18.0%
<i>Hermit Thrush</i>	2431-28279	HY-U	25-Sep-09	30-Sep-09 04-Oct-09 08-Oct-09	5 9 13	28.6 29.8 32.2	29.8 32.2 31.8	+3.2	+11.2%
<i>Hermit Thrush</i>	2431-38295	HY-U	25-Sep-09	26-Sep-09	1	28.8	27.9	-0.9	-3.1%
<i>Hermit Thrush</i>	2431-38316	HY-U	26-Sep-09	30-Sep-09	4	28.4	29.3	+0.9	+3.2%
<i>Hermit Thrush</i>	2431-38370	HY-U	30-Sep-09	04-Oct-09	4	28.9	29.5	+0.6	+2.1%
<i>Hermit Thrush</i>	2431-38398	HY-U	30-Sep-09	04-Oct-09	4	28.1	28.4	+0.3	+1.1%
<i>Hermit Thrush</i>	2431-38487	HY-U	14-Oct-09	22-Oct-09	8	26.0	30.7	+4.7	+18.1%
<i>Hermit Thrush</i>	2431-38492	HY-U	14-Oct-09	22-Oct-09	8	27.9	30.2	+2.3	+8.2%
<i>Hermit Thrush</i>	2431-38523	HY-U	14-Oct-09	22-Oct-09	8	28.6	32.2	+3.6	+12.6%
<i>Hermit Thrush</i>	2431-38534	HY-U	14-Oct-09	22-Oct-09	8	25.6	28.9	+3.3	+12.9%
<i>American Robin</i>	1232-43651	HY-U	13-Aug-09	15-Aug-09	2	77.1	71.6	-5.5	-7.1%
<i>American Robin</i>	1232-43656	HY-U	13-Aug-09	06-Sep-09	24	76.0	54.6	-21.4	-28.2%
<i>Gray Catbird</i>	2231-53564	HY-U	05-Sep-09	11-Sep-09	6	35.4	30.9	-4.5	-12.7%
<i>Gray Catbird</i>	2231-53565	HY-U	11-Sep-09	17-Sep-09 25-Sep-09 26-Sep-09	6 14 15	34.0 33.5 28.9	33.5 28.9 32.2	-1.8	-5.3%
<i>Gray Catbird</i>	2231-53569	HY-U	17-Sep-09	30-Sep-09	13	33.8	40.8	+7.0	+20.7%
<i>Gray Catbird</i>	2231-53572	HY-U	25-Sep-09	30-Sep-09	5	34.9	40.2	+5.3	+15.2%
<i>Gray Catbird</i>	2231-53573	HY-U	25-Sep-09	26-Sep-09	1	35.2	35.2	0.0	0%
<i>Nashville Warbler</i>	2550-22369	HY-M	26-Sep-09	30-Sep-09	4	8.1	9.1	+1.0	+12.3%
<i>Magnolia Warbler</i>	2550-22362	HY-U	25-Sep-09	30-Sep-09	5	8.0	8.6	+0.6	+7.5%
<i>Black-throated Blue Warbler</i>	2550-22407	HY-M	30-Sep-09	04-Oct-09	4	10.4	10.4	0.0	0%
<i>Mourning Warbler</i>	2560-75204	HY-F	03-Sep-09	05-Sep-09	2	11.3	11.7	+0.4	+3.5%

Table 14. Cont'd. (page 2 of 4)

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>	2560-75078	HY-U	02-Aug-09	13-Aug-09	11	10.6	10.1	-0.5	-4.7%
<i>Common Yellowthroat</i>	2560-75103	HY-U	13-Aug-09	03-Sep-09 11-Sep-09	21 29	11.3 9.4	9.4 9.4	-1.9	-16.8%
<i>Common Yellowthroat</i>	2560-75112	AHY-F	13-Aug-09	15-Aug-09	2	10.3	10.2	-0.1	-1.0%
<i>Common Yellowthroat</i>	2560-75123	HY-M	15-Aug-09	23-Aug-09 27-Aug-09	8 12	11.0 11.2	11.2 11.1	+0.1	+0.9%
<i>Common Yellowthroat</i>	2560-75125	HY-M	15-Aug-09	20-Aug-09 05-Sep-09	5 21	- 10.1	10.1 9.5	-0.6	-5.9%
<i>Common Yellowthroat</i>	2560-75126	HY-U	15-Aug-09	05-Sep-09	21	9.1	9.5	+0.4	+4.4%
<i>Common Yellowthroat</i>	2560-75145	HY-M	23-Aug-09	03-Sep-09	11	11.0	11.4	+0.4	+3.6%
<i>Common Yellowthroat</i>	2560-75148	HY-M	23-Aug-09	05-Sep-09 06-Sep-09 13-Sep-09	13 14 21	9.0 9.8 9.7	9.8 9.7 9.6	+0.6	+6.7%
<i>Common Yellowthroat</i>	2560-75149	HY-U	23-Aug-09	11-Sep-09	19	9.7	10.3	+0.6	+6.2%
<i>Common Yellowthroat</i>	2560-75150	HY-U	23-Aug-09	27-Aug-09	4	11.0	10.7	-0.3	-2.7%
<i>Common Yellowthroat</i>	2560-75156	HY-U	23-Aug-09	03-Sep-09	11	10.6	9.8	-0.8	-7.5%
<i>Common Yellowthroat</i>	2560-75158	AHY-M	23-Aug-09	03-Sep-09	11	10.9	10.0	-0.9	-8.2%
<i>Common Yellowthroat</i>	2560-75165	HY-M	23-Aug-09	03-Sep-09	11	11.6	10.8	-0.8	-6.9%
<i>Common Yellowthroat</i>	2560-75201	HY-U	03-Sep-09	13-Sep-09	10	9.1	9.1	0.0	0%
<i>Common Yellowthroat</i>	2560-75203	HY-U	03-Sep-09	17-Sep-09	14	9.2	9.2	0.0	0%
<i>Common Yellowthroat</i>	2560-75208	HY-M	03-Sep-09	06-Sep-09	3	9.9	10.1	+0.2	+2.0%
<i>Common Yellowthroat</i>	2560-75211	HY-M	03-Sep-09	06-Sep-09	3	10.6	10.0	-0.6	-5.7%
<i>Common Yellowthroat</i>	2560-75214	HY-M	05-Sep-09	13-Sep-09	8	10.9	10.7	-0.2	-1.8%
<i>Common Yellowthroat</i>	2560-75237	HY-M	06-Sep-09	13-Sep-09	7	10.4	10.0	-0.4	-3.8%
<i>Common Yellowthroat</i>	2560-75241	HY-U	11-Sep-09	25-Sep-09	14	9.9	10.4	+0.5	+5.0%
<i>Common Yellowthroat</i>	2560-75287	HY-U	26-Sep-09	30-Sep-09	4	9.4	9.7	+0.3	+3.2%
<i>Song Sparrow</i>	2431-38096	HY-U	04-Aug-09	13-Aug-09	9	18.0	17.6	-0.4	-2.2%
<i>Song Sparrow</i>	2431-38098	HY-U	04-Aug-09	03-Sep-09 08-Oct-09	30 65	16.7 17.6	17.6 18.5	+1.8	+10.8%
<i>Song Sparrow</i>	2431-38103	HY-U	04-Aug-09	27-Aug-09 30-Sep-09	23 57	18.9 19.5	19.5 19.5	+0.4	+2.1%
<i>Song Sparrow</i>	2431-38106	AHY-F	04-Aug-09	15-Aug-09	11	18.2	18.6	+0.4	+2.2%
<i>Song Sparrow</i>	2431-38111	HY-U	04-Aug-09	15-Aug-09	11	20.2	19.1	-1.1	-5.4%
<i>Song Sparrow</i>	2431-38118	HY-U	13-Aug-09	27-Aug-09	14	17.6	19.0	+1.4	+7.9%
<i>Song Sparrow</i>	2431-38129	HY-U	13-Aug-09	23-Aug-09 03-Sep-09 04-Aug-09	10 21 52	21.0 18.8 19.6	18.8 19.6 20.8	-0.2	-0.9%
<i>Song Sparrow</i>	2431-38131	HY-U	13-Aug-09	15-Aug-09 27-Aug-09 03-Sep-09	2 14 21	20.0 19.6 18.6	19.6 18.6 19.2	-0.8	-4.0%
<i>Song Sparrow</i>	2431-38141	HY-U	15-Aug-09	23-Aug-09	8	17.7	18.9	+1.2	+6.8%
<i>Song Sparrow</i>	2431-38142	HY-U	15-Aug-09	23-Aug-09 08-Oct-09	8 54	18.6 18.8	18.8 19.9	+1.3	+7.0%
<i>Song Sparrow</i>	2431-38143	HY-U	15-Aug-09	23-Aug-09 27-Aug-09 04-Oct-09	8 12 50	18.8 18.1 18.8	18.1 18.8 20.3	+1.5	+8.0%
<i>Song Sparrow</i>	2431-38148	HY-U	15-Aug-09	23-Aug-09	8	20.2	19.6	-0.6	-3.0%

Table 14. Cont'd. (page 3 of 4)

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	2431-38149	HY-U	15-Aug-09	20-Aug-09	5	23.6	18.1		
				23-Aug-09	8	18.1	18.6		
				03-Sep-09	19	18.6	17.8		
				11-Sep-09	27	17.8	19.0		
				22-Oct-09	68	19.0	21.1	-2.5	-10.6%
Song Sparrow	2431-38151	HY-U	20-Aug-09	27-Aug-09	7	19.2	19.5		
				05-Sep-09	16	19.5	20.8		
				04-Oct-09	45	20.8	23.8	+4.6	+23.9%
Song Sparrow	2431-38152	HY-U	20-Aug-09	03-Sep-09	14	18.3	19.0	+0.7	+3.8%
Song Sparrow	2431-38158	HY-U	20-Aug-09	23-Aug-09	3	16.0	17.4		
				22-Oct-09	63	17.4	20.9	+4.9	+30.6%
Song Sparrow	2431-38159	HY-U	20-Aug-09	27-Aug-09	7	16.7	15.4		
				03-Sep-09	14	15.4	16.8		
				05-Sep-09	16	16.8	17.0	+0.3	+1.8%
Song Sparrow	2431-38162	HY-U	23-Aug-09	27-Aug-09	4	20.2	17.7		
				30-Sep-09	38	17.7	19.5		
				04-Oct-09	42	19.5	17.9	-2.3	-11.4%
Song Sparrow	2431-38163	HY-U	23-Aug-09	17-Sep-09	25	18.7	20.2	+1.5	+8.0%
Song Sparrow	2431-38175	HY-U	27-Aug-09	06-Sep-09	10	18.8	18.4	-0.4	-2.1%
Song Sparrow	2431-38178	HY-U	27-Aug-09	11-Sep-09	15	19.6	20.4	+0.8	+4.1%
Song Sparrow	2431-38179	HY-U	27-Aug-09	26-Sep-09	30	17.3	18.3		
				04-Oct-09	38	18.3	17.2	-0.1	-0.6%
Song Sparrow	2431-38180	HY-U	27-Aug-09	03-Sep-09	7	20.1	16.9		
				05-Sep-09	9	16.9	16.6	-3.5	-17.4%
Song Sparrow	2431-38181	HY-U	27-Aug-09	05-Sep-09	9	18.7	18.2		
				11-Sep-09	15	18.2	18.4		
				08-Oct-09	42	18.4	19.4		
				14-Oct-09	48	19.4	18.3	-0.4	-2.1%
Song Sparrow	2431-38189	HY-U	03-Sep-09	14-Oct-09	41	16.6	18.4	+1.8	+10.8%
Song Sparrow	2431-38196	HY-U	05-Sep-09	13-Sep-09	8	19.6	19.8	+0.2	+1.0%
Song Sparrow	2431-38201	HY-U	05-Sep-09	13-Sep-09	8	20.3	21.2		
				14-Oct-09	39	21.2	20.6	+0.3	+1.5%
Song Sparrow	2431-38202	HY-U	05-Sep-09	04-Oct-09	29	18.5	17.4		
				14-Oct-09	39	17.4	16.1	-2.4	-13.0%
Song Sparrow	2431-38208	HY-U	06-Sep-09	04-Oct-09	28	-	21.6	-	-
Song Sparrow	2431-38210	HY-U	11-Sep-09	17-Sep-09	6	19.4	19.8		
				30-Sep-09	19	19.8	20.6	+1.2	+6.2%
Song Sparrow	2431-38220	AHY-U	13-Sep-09	25-Sep-09	12	20.0	20.2		
				04-Oct-09	21	20.2	20.8	+0.8	+4.0%
Song Sparrow	2431-38223	HY-U	13-Sep-09	17-Sep-09	4	20.4	20.0	-0.4	-2.0%
Song Sparrow	2431-38227	HY-U	17-Sep-09	30-Sep-09	13	18.1	20.3	+2.2	+12.1%
Song Sparrow	2431-38229	HY-U	17-Sep-09	25-Sep-09	8	19.4	20.8	+1.4	+7.0%
Song Sparrow	2431-38234	HY-U	17-Sep-09	30-Sep-09	13	19.8	21.6	+1.8	+9.1%
Song Sparrow	2431-38239	HY-U	17-Sep-09	28-Oct-09	41	19.0	20.7	+1.7	+8.9%
Song Sparrow	2431-38272	HY-U	25-Sep-09	30-Sep-09	5	18.3	17.6	-0.7	-3.8%
Song Sparrow	2431-38347	HY-U	26-Sep-09	30-Sep-09	4	16.9	17.1	+0.2	+1.2%
Song Sparrow	2431-38447	HY-U	04-Oct-09	14-Oct-09	10	19.4	18.9	-0.5	-2.6%
Song Sparrow	2431-38498	HY-U	14-Oct-09	22-Oct-09	8	21.1	21.8		
				28-Oct-09	14	21.8	20.6	-0.5	-2.4%
Song Sparrow	2431-38586	AHY-U	28-Oct-09	31-Oct-09	3	20.7	24.3	+3.6	+17.4%

Table 14. Cont'd. (page 4 of 4)

Species	Band No.	Age/Sex	Date Banded	Date Recaptured	No. of days	Original Weight	Weight at Recapture (g)	Gain/Loss (g)	Gain/Loss (%)
Lincoln's Sparrow	2391-16339	HY-U	26-Sep-09	30-Sep-09	4	16.6	15.2	-1.4	-8.4%
Lincoln's Sparrow	2391-16341	HY-U	26-Sep-09	30-Sep-09	4	15.0	15.4	+0.4	+2.7%
Swamp Sparrow	2391-16181	HY-U	04-Aug-09	13-Aug-09	9	15.6	14.7	-0.9	-5.8%
Swamp Sparrow	2391-16187	HY-U	13-Aug-09	20-Aug-09	7	17.5	17.3	-0.2	-1.1%
Swamp Sparrow	2391-16194	HY-U	13-Aug-09	23-Aug-09	10	15.3	15.3	0.0	0%
Swamp Sparrow	2391-16198	HY-U	15-Aug-09	26-Sep-09	42	15.5	17.5	+2.0	+12.9%
Swamp Sparrow	2391-16201	HY-U	15-Aug-09	30-Sep-09	46	14.8	16.7	+1.9	+12.8%
Swamp Sparrow	2391-16211	HY-U	23-Aug-09	26-Sep-09	34	17.5	16.4	-1.1	-6.3%
Swamp Sparrow	2391-16215	HY-U	27-Aug-09	03-Sep-09	7	14.3	13.8		
				30-Sep-09	34	13.8	15.9	+1.6	+11.2%
Swamp Sparrow	2391-16221	HY-U	27-Aug-09	06-Sep-09	10	15.3	16.7		
				13-Sep-09	17	16.7	19.0		
				30-Sep-09	34	19.0	19.1	+3.8	+24.8%
Swamp Sparrow	2391-16225	HY-U	27-Aug-09	03-Sep-09	7	16.0	16.0	0.0	0%
Swamp Sparrow	2391-16325	HY-U	26-Sep-09	04-Oct-09	8	16.5	17.8	+1.3	+7.9%
Swamp Sparrow	2391-16337	HY-U	26-Sep-09	14-Oct-09	18	15.9	15.3	-0.6	-3.8%
Swamp Sparrow	2391-16357	HY-U	03-Sep-09	04-Oct-09	31	17.4	18.3	+0.9	+5.2%
Swamp Sparrow	2401-00514	HY-U	14-Oct-09	28-Oct-09	14	15.3	17.2	+1.9	+12.4%
White-throated Sparrow	2431-38256	HY-U	25-Sep-09	30-Sep-09	5	24.9	22.7	-2.2	-8.8%
White-throated Sparrow	2431-38273	AHY-U	25-Sep-09	30-Sep-09	5	21.4	19.9	-1.5	-7.0%
White-throated Sparrow	2431-38282	HY-U	25-Sep-09	08-Oct-09	13	23.7	27.0	+3.3	+13.9%
White-throated Sparrow	2431-38309	HY-U	26-Sep-09	30-Sep-09	4	24.6	23.4		
				04-Oct-09	8	23.4	25.2	+0.6	+2.4%
White-throated Sparrow	2431-38323	HY-U	26-Sep-09	04-Oct-09	8	22.5	24.4	+1.9	+8.4%
White-throated Sparrow	2431-38325	HY-U	26-Sep-09	04-Oct-09	8	24.6	26.9	+2.3	+9.3%
White-throated Sparrow	2431-38326	HY-U	26-Sep-09	30-Sep-09	4	27.0	27.0	0.0	0%
White-throated Sparrow	2431-38327	HY-U	26-Sep-09	04-Oct-09	8	25.4	23.8	-1.6	-6.3%
White-throated Sparrow	2431-38333	HY-F	26-Sep-09	04-Oct-09	8	23.3	24.2	+0.9	+3.9%
White-throated Sparrow	2431-38343	HY-U	26-Sep-09	04-Oct-09	8	24.3	24.2	-0.1	-0.4%
White-throated Sparrow	2431-38353	HY-U	26-Sep-09	30-Sep-09	4	24.2	24.2	0.0	0%
White-throated Sparrow	2431-38385	HY-U	30-Sep-09	04-Oct-09	4	25.7	22.8	-2.9	-11.3%
White-throated Sparrow	2431-38450	HY-U	04-Oct-09	08-Oct-09	4	27.5	29.3	+1.8	+6.5%
White-crowned Sparrow	2431-38405	HY-U	30-Sep-09	04-Oct-09	4	26.1	24.2	-1.9	-7.3%
American Goldfinch	2401-00505	HY-F	08-Oct-09	14-Oct-09	6	11.9	12.0	+0.1	+0.8%
American Goldfinch	2401-00509	HY-F	14-Oct-09	28-Oct-09	14	11.9	12.5	+0.6	+5.0%
American Goldfinch	2401-00516	HY-M	14-Oct-09	28-Oct-09	14	13.0	13.6	+0.6	+4.6%
American Goldfinch	2401-00583	HY-M	28-Oct-09	31-Oct-09	3	14.3	14.1	-0.2	-1.4%
Minimum Stopover (days)					1	-	-	-	-
Maximum Stopover (days)					68	-	-	-	-
Average Stopover (days)						-	-	-	-
Total birds with weight gains								69	-
Total birds with weight loss								50	-
Average weight gain									+8.1%
Average weight loss									-6.6%

FALL 2009 - PHOTO HIGHLIGHTS



This hatch-year female Yellow-bellied Sapsucker, captured on 26 September 2009, was only the second banded at Metro Beach since 2004.



Although caught on the late date of 4 October, this hatch-year Eastern Wood-Pewee was retaining a remarkable amount of juvenile plumage.



A first for fall, and a personal first for the bander, was this after hatch-year female Olive-sided Flycatcher caught out in the Field Nets on 15 August 2009.



It was a good fall season for all four species of *Empidonax* flycatchers regularly captured here. This is one of the 22 Least Flycatchers that made for record fall for the species.



This hatch-year Philadelphia Vireo banded on 17 September 2009 was only the second banded since 2004 and the first since 2005 at Metro Beach.



It was a near record year for Winter Wrens; this photo demonstrates the species' small size and shows field marks of short tail and white supercilium.



There was no evidence of an irruption this fall of Red-breasted Nuthatches, so capturing this hatch-year female on 4 October 2009 was a surprise.



Marsh Wrens breed in areas adjacent to the Field Nets, but since 1989 have never been captured in spring. In fall, numbers captured vary from 0-15+, and are often captured in the swamp or upland woods!



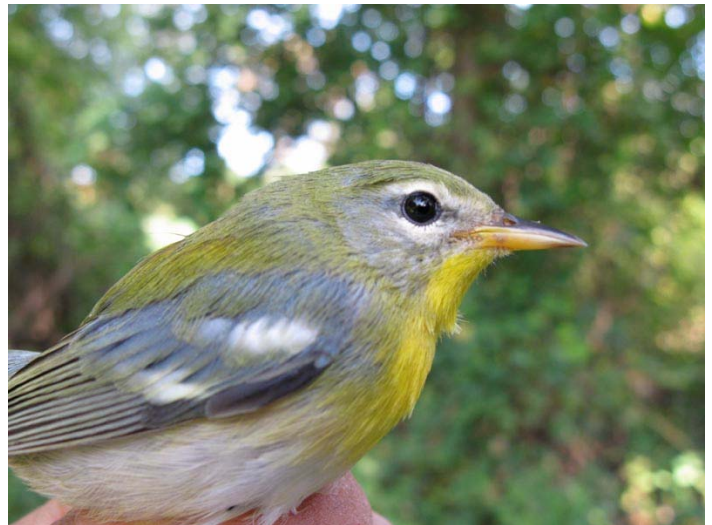
Cedar Waxwings, like this after hatch-year female, may have nested in the tree around which the Field Nets are placed, and all 39 banded this fall were captured there, and during August.



Several Cedar Waxwings, like this adult but also including juveniles, had orange-tipped tail feathers instead of the normal yellow. This may be due to the encroaching Glossy Buckthorn out in the field.



This is one of the four hatch-year female Northern Parulas banded at Metro Beach this fall, a record number.



Another hatch-year female Northern Parula; on 17 September 2009 there were TWO of them banded.



This hatch-year male Rose-breasted Grosbeak banded on the somewhat late date of 30 September 2009 was showing a confusing, if not prominent pattern of molt with clearly newer black feathers contrasting with older brown feathers.



Another less than annual species captured at Metro Beach is the Eastern Towhee, and this handsome hatch-year male was banded on 28 October 2009.



Like Rose-breasted Grosbeaks, Indigo Buntings are not banded every year at Metro Beach. This hatch-year female Indigo Bunting was one of two banded this fall.



More often captured in early April, after first capturing American Tree Sparrows in the fall in 2008 on 1 November, the two banded on 28 October 2009 were the earliest ever.