

**Black Swamp Bird Observatory
Navarre Banding Station
Fall 2009 Passerine Migration Monitoring
Latitude 413 Longitude 0830**

The 20th fall season began daily 22 August at our primary passerine banding station.

This site is a barrier beach ridge along the southwest shore of Lake Erie. Operations are conducted daily weather permitting from mid-August to mid-October. Twenty-six nets are run from ½ hour before sunrise to at least 11:00 AM. Only raw data (i.e., uncorrected for effort) are presented here, all of these data should be considered provisional. They are presented here for general interest, not as scientific analyses.

Fall 2009 – Navarre - New Bandings only

| Date | Number Banded 2009 | Accumulative Banded 2009 | Birds/Net Hour | Same Date 2008 |
|-------------|---------------------------|---------------------------------|-----------------------|-----------------------|
| 7-04 | | | | 17 |
| 7-05 | 66 | | 0.72 | 17 |
| 7-13 | 55 | 121 | 0.40 | 17 |
| 7-14 | | 121 | | 51 |
| 7-20 | | 121 | | 96 |
| 7-27 | 77 | 198 | 0.67 | 96 |
| 8-06 | 23 | 221 | 0.25 | 125 |
| 8-20 | | | | 142 |
| 8-21 | | | | 157 |
| 8-22 | 48 | 269 | 0.27 | 172 |
| 8-23 | 16 | 285 | 0.10 | 184 |
| 8-24 | 37 | 322 | 0.22 | 200 |
| 8-25 | 15 | 337 | 0.11 | 214 |
| 8-26 | 62 | 399 | 0.45 | 230 |
| 8-27 | 24 | 423 | 0.15 | 235 |
| 8-28 | 8 | 431 | 0.07 | 253 |
| 8-29 | 17 | 448 | 0.13 | 261 |
| 8-30 | 13 | 461 | 0.10 | 297 |
| 8-31 | 44 | 505 | 0.32 | 336 |
| 9-01 | 77 | 582 | 0.48 | 358 |
| 9-02 | 24 | 606 | 0.18 | 377 |
| 9-03 | 12 | 618 | 0.10 | 393 |
| 9-04 | 22 | 640 | 0.14 | 414 |
| 9-05 | 20 | 660 | 0.14 | 436 |
| 9-06 | 21 | 681 | 0.14 | 485 |
| 9-07 | 15 | 696 | 0.11 | 568 |
| 9-08 | 7 | 703 | 0.06 | 642 |
| 9-09 | 15 | 718 | 0.12 | 672 |
| 9-10 | 15 | 733 | 0.11 | 708 |
| 9-11 | 24 | 757 | 0.18 | 754 |
| 9-12 | 10 | 767 | 0.08 | 754 |
| 9-13 | 20 | 787 | 0.15 | 776 |
| 9-14 | 43 | 830 | 0.30 | 811 |
| 9-15 | 50 | 880 | 0.39 | 867 |
| 9-16 | 21 | 901 | 0.19 | 962 |

**Black Swamp Bird Observatory
Navarre Banding Station
Fall 2009 Passerine Migration Monitoring
Latitude 413 Longitude 0830**

| Date | Number Banded 2009 | Accumulative Banded 2009 | Birds/Net Hour | Same Date 2008 |
|-------|--------------------|--------------------------|----------------|----------------|
| 9-17 | 38 | 939 | 0.30 | 1089 |
| 9-18 | 49 | 988 | 0.33 | 1146 |
| 9-19 | 66 | 1054 | 0.46 | 1216 |
| 9-20 | 41 | 1095 | 0.30 | 1323 |
| 9-21 | 20 | 1115 | 0.16 | 1368 |
| 9-22 | 100 | 1215 | 0.60 | 1412 |
| 9-23 | 80 | 1295 | 0.55 | 1457 |
| 9-24 | 54 | 1349 | 0.39 | 1510 |
| 9-25 | 42 | 1391 | 0.35 | 1632 |
| 9-26 | 127 | 1518 | 0.67 | 1672 |
| 9-27 | 144 | 1662 | 0.90 | 1718 |
| 9-28 | 118 | 1780 | 0.98 | 1784 |
| 9-29 | 131 | 1911 | 0.88 | 1868 |
| 9-30 | 160 | 2071 | 0.86 | 1910 |
| 10-01 | 152 | 2223 | 0.83 | 1987 |
| 10-02 | RAIN | 2223 | | 2168 |
| 10-03 | 96 | 2319 | 0.60 | 2290 |
| 10-04 | 121 | 2440 | 0.71 | 2388 |
| 10-05 | 85 | 2525 | 0.58 | 2477 |
| 10-06 | 101 | 2626 | 0.59 | 2520 |
| 10-07 | 30 | 2656 | 0.23 | 2574 |
| 10-08 | 99 | 2755 | 0.58 | 2574 |
| 10-09 | RAIN | 2755 | | 2724 |
| 10-10 | 161 | 2916 | 0.70 | 2826 |
| 10-11 | 84 | 3000 | 0.59 | 2884 |
| 10-12 | 103 | 3103 | 0.67 | 2957 |
| 10-13 | 55 | 3158 | 0.44 | 3042 |
| 10-14 | 83 | 3241 | 1.67 | 3081 |
| 10-15 | RAIN | 3241 | | 3236 |
| 10-16 | 161 | 3402 | 1.47 | 3295 |
| 10-17 | 175 | 3577 | 1.27 | 3383 |
| 10-18 | 124 | 3701 | 0.89 | 3435 |
| 10-19 | 66 | 3767 | 0.46 | 3497 |
| 10-20 | 109 | 3876 | 0.66 | 3497 |
| 10-21 | 55 | 3931 | 0.41 | 3497 |
| 10-22 | 65 | 3996 | 0.47 | 3497 |
| 10-23 | RAIN | 3996 | | 3497 |
| 10-24 | 78 | 4074 | 0.59 | 3497 |
| 10-25 | 137 | 4211 | 0.78 | 3497 |
| 10-27 | 55 | 4266 | 0.39 | 3497 |
| 10-31 | | 4266 | | 3517 |
| 11-01 | 44 | 4310 | 0.46 | 3517 |
| 11-09 | | | | 3535 |

**Black Swamp Bird Observatory
Navarre Banding Station
Fall 2009 Passerine Migration Monitoring
Latitude 413 Longitude 0830**

Species summary, for the Navarre banding station, fall 2009. Includes first/last capture, peak capture, 2009 new banded total, and the 2008 total for the species.

Last date is only included if the species main migration has passed through the region. 2009 totals bold if surpassed year 2008 totals, blue if surpassed average, and red if record year.

Bird Movement: Minor movement has been observed with 12 species of warbler to date. Major movement of Cedar Waxwings has been seen along the coast. First fair movement occurred on the 1 September with 16 species of warbler captured. Extremely slow the past week with a NE wind settled over Lake Erie. As we get into mid-September NE winds continue to hold bird activity down along the lake. Inland banding sites are seeing much better movement away from the lake. Continued NE wind keeps numbers below average. We are also beginning to notice a much poorer condition to many birds moving through, especially thrushes. Finally something other than a NE wind. Though South quadrant a movement of warblers occurred on the 22nd. Good movement began the 26th September. Lots of thrushes and Blackpoll Warblers. Only the second fall Kentucky Warbler banded at the station. Movement continues on the NW wind. 18 species warbler on 30 September. Considerable stopover noted the past week with nearly as many banded birds encountered as unbanded. October 14 was first major kinglet movement, unfortunately rain cut the day short. Large numbers of kinglets continue with good movements of Hermit Thrush, White-throats, White-crowns, creepers, and Winter Wrens. Week of October 18 saw continued movement of "October" birds with Myrtle Warbler and hermit Thrush taking dominance from the kinglets. Fox Sparrows are still yet to arrive in numbers. The banding station was closed down for the fall on 1 November. Still birds moving with considerable Rusty Blackbirds and White-throated Sparrows.

Updated last: 1 November

| Species | First /Last Capture | Peak Capture | 2009 Total | 2008 Total | 1990 - 2008 | | |
|----------------------|---------------------|--------------|------------|------------|-------------|------|-----|
| | | | | | Total | High | Avg |
| American Woodcock | 8/6-10/8 | | 3 | 4 | 29 | 7 | 2 |
| Mourning Dove | | | | 2 | 30 | 7 | 2 |
| Sharp-shinned Hawk | 10/1 | | 1 | 0 | 10 | 2 | <1 |
| Cooper's Hawk | | | | 1 | 3 | 1 | <1 |
| Red-tailed Hawk | | | | 0 | 4 | 1 | <1 |
| Eastern Screech Owl | | | | 1 | 2 | 1 | <1 |
| Yellow-billed Cuckoo | 9/21 | | 1 | 4 | 99 | 13 | 5 |
| Black-billed Cuckoo | | | | 1 | 6 | 1 | <1 |
| Belted Kingfisher | | | | 0 | 4 | 2 | <1 |
| Hairy Woodpecker | 9/26 | | 1 | 0 | 2 | 1 | <1 |

Black Swamp Bird Observatory
Navarre Banding Station
Fall 2009 Passerine Migration Monitoring
Latitude 413 Longitude 0830

| Species | First /Last Capture | Peak Capture | 2009 Total | 2008 Total | 1990 - 2008 | | |
|--------------------------------|---------------------|--------------|------------|------------|-------------|------|-----|
| | | | | | Total | High | Avg |
| Downy Woodpecker | 7/13 | 8/22-4 | 41 | 22 | 373 | 31 | 20 |
| Yellow-bellied Sapsucker | 9/27-10/22 | 10/3-3 | 9 | 5 | 93 | 19 | 5 |
| Red-head Woodpecker | | | | 0 | 4 | 2 | <1 |
| Red-bellied Woodpecker | 10/17 | | 1 | 1 | 5 | 2 | <1 |
| Yellow-shafted Flicker | 9/14 | 9/25-4 | 10 | 14 | 145 | 18 | 8 |
| Whip-poor-will | | | | 1 | 1 | 1 | <1 |
| Ruby-throated Hummingbird | 8/26-9/20 | | 7 | 9 | 215 | 58 | 14 |
| Eastern Kingbird | 8/26 | | 1 | 0 | 54 | 18 | 3 |
| Great Crested Flycatcher | 7/5 | 7/5-2 | 2 | 1 | 26 | 9 | 1 |
| Eastern Phoebe | 8/6-10/24 | 8/22-2 | 18 | 22 | 503 | 54 | 26 |
| Olive-sided Flycatcher | | | | 0 | 5 | 1 | <1 |
| Eastern Wood-Pewee | 8/26-10/12 | | 10 | 6 | 254 | 26 | 13 |
| Yellow-bellied Flycatcher | 8/27-9/26 | 9/26-3 | 11 | 18 | 346 | 38 | 18 |
| Acadian Flycatcher | | | | 0 | 14 | 2 | <1 |
| Trail's Flycatcher | 8/23-27 | | 3 | 6 | 128 | 18 | 7 |
| Least Flycatcher | 9/1-2 | 9/1-2 | 3 | 1 | 153 | 15 | 8 |
| Blue Jay | 7/27 | | 3 | 3 | 109 | 19 | 6 |
| European Starling | | | | 0 | 5 | 5 | <1 |
| Red-winged Blackbird | 7/5 | 7/5-8 | 16 | 13 | 636 | 134 | 33 |
| Orchard Oriole | | | | 0 | 12 | 8 | <1 |
| Baltimore Oriole | 7/5-8/26 | 8/26-11 | 23 | 6 | 434 | 86 | 23 |
| Rusty Blackbird | 10/16-20 | 10/16-2 | 6 | 1 | 191 | 47 | 10 |
| Common Grackle | 7/5-10/27 | 10/10-11 | 56 | 52 | 578 | 87 | 30 |
| Purple Finch | 9/5-10/22 | 10/14-2 | 4 | 3 | 234 | 79 | 12 |
| House Finch | | | | 0 | 402 | 148 | 22 |
| American Goldfinch | 8/23 | 10/25-5 | 19 | 2 | 470 | 191 | 25 |
| Savanna Sparrow | | | | 0 | 3 | 1 | <1 |
| Nelson's Sparrow | | | | 0 | 2 | 1 | <1 |
| White-crowned Sparrow | 10/10-25 | 10/17-5 | 23 | 3 | 208 | 27 | 11 |
| Gambel's White-crowned Sparrow | | | | 2 | 3 | 2 | <1 |
| White-throated Sparrow | 9/16-11/1 | 10/12-26 | 290 | 277 | 7211 | 1119 | 380 |
| American Tree Sparrow | | | | 0 | 23 | 8 | 1 |
| Chipping Sparrow | 10/12 | | 1 | 1 | 22 | 4 | 1 |
| Field Sparrow | 10/12-27 | 10/12-2 | 6 | 1 | 58 | 7 | 3 |
| Slate-colored Junco | 10/1-11/1 | 10/20-8 | 28 | 10 | 600 | 78 | 32 |
| Song Sparrow | 7/5 | 7/5-6 | 30 | 14 | 1097 | 140 | 58 |
| Lincoln Sparrow | 9/26-10/16 | 9/26-3 | 8 | 5 | 257 | 42 | 14 |
| Swamp Sparrow | 9/20-11/1 | 10/6-5 | 29 | 25 | 1455 | 239 | 77 |
| Fox Sparrow | 10/8-11/1 | 10/8-2 | 8 | 8 | 237 | 43 | 12 |
| Eastern Towhee | | | | 4 | 18 | 4 | <1 |
| Northern Cardinal | 7/5 | 10/18-4 | 40 | 45 | 874 | 75 | 46 |
| Rose-breasted Grosbeak | 9/10-10/7 | | 5 | 1 | 151 | 21 | 8 |
| Indigo Bunting | 7/5-10/11 | 7/5-3 | 7 | 4 | 291 | 58 | 15 |
| Dickcissel | | | | 0 | 1 | 1 | <1 |
| Scarlet Tanager | 9/30-10/3 | | 2 | 1 | 33 | 6 | 2 |
| Purple Martin | | | | 0 | 1 | 1 | <1 |
| Barn Swallow | | | | 0 | 14 | 8 | <1 |
| Tree Swallow | | | | 0 | 5 | 4 | <1 |

Black Swamp Bird Observatory
Navarre Banding Station
Fall 2009 Passerine Migration Monitoring
Latitude 413 Longitude 0830

| Species | First /Last Capture | Peak Capture | 2009 Total | 2008 Total | 1990 - 2008 | | |
|------------------------------|---------------------|--------------|------------|------------|-------------|------|-----|
| | | | | | Total | High | Avg |
| Cedar Waxwing | 8/22-10/25 | 10/16-8 | 46 | 9 | 416 | 78 | 22 |
| Northern Shrike | | | | 0 | 1 | 1 | <1 |
| Red-eyed Vireo | 8/23-10/11 | 10/4-4 | 47 | 39 | 1237 | 103 | 65 |
| Philadelphia Vireo | 9/11-10/13 | 9/30-2 | 10 | 10 | 277 | 24 | 15 |
| Warbling Vireo | 7/13-9/1 | 8/26-24 | 59 | 18 | 1128 | 132 | 59 |
| Yellow-throated Vireo | 9/30 | | 1 | 1 | 15 | 3 | <1 |
| Blue-headed Vireo | 9/24-10/18 | 9/26-9 | 28 | 13 | 202 | 23 | 11 |
| White-eyed Vireo | 9/26 | | 1 | 3 | 22 | 4 | 1 |
| Black-and-white Warbler | 8/24-9/27 | 8/24-2 | 13 | 15 | 415 | 45 | 22 |
| Prothonotary Warbler | 7/5-8/30 | | 6 | 3 | 126 | 15 | 7 |
| Worm-eating Warbler | | | | 0 | 2 | 1 | <1 |
| Blue-winged Warbler | | | | 0 | 14 | 2 | <1 |
| Golden-winged Warbler | | | | 0 | 13 | 3 | <1 |
| Nashville Warbler | 8/27-10/27 | 9/26-7 | 50 | 49 | 692 | 66 | 36 |
| Orange-crowned Warbler | 10/5-25 | 10/13-2 | 7 | 7 | 83 | 10 | 4 |
| Tennessee Warbler | 8/26-10/25 | 9/30-3 | 23 | 22 | 1158 | 197 | 61 |
| Northern Parula | 9/30-10/10 | | 3 | 2 | 27 | 6 | 1 |
| Cape May Warbler | 9/22-10/10 | 9/29-14 | 47 | 19 | 2159 | 428 | 114 |
| Yellow Warbler | 7/5-9/22 | 7/27-35 | 75 | 28 | 1251 | 207 | 66 |
| Black-throated Blue Warbler | 8/27-10/12 | 9/30-7 | 65 | 78 | 762 | 78 | 40 |
| Myrtle Warbler | 9/27 | 10/24-35 | 195 | 228 | 5055 | 945 | 266 |
| Magnolia Warbler | 8/24-10/11 | 8/31-13 | 124 | 103 | 2980 | 266 | 157 |
| Cerulean Warbler | | | | 0 | 1 | 1 | <1 |
| Chestnut-sided Warbler | 8/23-9/30 | 9/1-8 | 13 | 13 | 341 | 38 | 18 |
| Bay-breasted Warbler | 9/5-10/4 | 10/4-5 | 17 | 12 | 464 | 54 | 24 |
| Blackpoll Warbler | 9/6-10/24 | 9/27-71 | 538 | 319 | 7125 | 890 | 375 |
| Blackburnian Warbler | 9/1-10/1 | | 5 | 3 | 82 | 8 | 4 |
| Black-throated Green Warbler | 9/1-10/25 | | 7 | 9 | 231 | 30 | 12 |
| Pine Warbler | | | | 0 | 8 | 4 | <1 |
| Western palm Warbler | 9/28-10/6 | 9/28-2 | 4 | 7 | 245 | 54 | 13 |
| Yellow palm Warbler | | | | 0 | 6 | 6 | <1 |
| Ovenbird | 8/27-10/25 | 9/30-6 | 63 | 76 | 1436 | 130 | 76 |
| Northern Waterthrush | 7/27-10/8 | 8/24-3 | 31 | 21 | 494 | 56 | 26 |
| Kentucky Warbler | 9/26 | | 1 | 0 | 1 | 1 | <1 |
| Connecticut Warbler | 9/11-10/10 | | 6 | 3 | 151 | 20 | 8 |
| Mourning Warbler | 8/23-9/29 | 9/1-5 | 14 | 6 | 217 | 20 | 11 |
| Common Yellowthroat | 7/13-10/20 | 7/27-13 | 83 | 90 | 3576 | 458 | 188 |
| Yellow-breasted Chat | | | | 1 | 21 | 4 | 1 |
| Hooded Warbler | | | | 0 | 4 | 1 | <1 |
| Wilson's Warbler | 8/31-9/26 | 9/1-3 | 13 | 5 | 409 | 62 | 22 |
| Canada Warbler | 8/29-9/10 | 9/1-5 | 9 | 9 | 154 | 17 | 8 |
| American Redstart | 8/24-10/10 | 9/28-12 | 50 | 52 | 1538 | 158 | 81 |
| Gray Catbird | 7/5-10/25 | 7/13-26 | 273 | 288 | 4928 | 452 | 259 |
| Brown Thrasher | 7/5-10/19 | | 7 | 2 | 108 | 13 | 6 |
| Carolina Wren | 7/5 | 7/27-2 | 8 | 19 | 313 | 30 | 16 |
| House Wren | 7/5-10/18 | 9/26-5 | 52 | 68 | 1385 | 153 | 73 |
| Winter Wren | 9/19-11/1 | 10/17-8 | 89 | 38 | 1218 | 158 | 64 |
| Marsh Wren | 9/4-10/11 | | 4 | 4 | 48 | 9 | 2 |

**Black Swamp Bird Observatory
Navarre Banding Station
Fall 2009 Passerine Migration Monitoring
Latitude 413 Longitude 0830**

| Species | First /Last Capture | Peak Capture | 2009 Total | 2008 Total | 1990 - 2008 | | |
|-------------------------|---------------------|--------------|--------------|------------|---------------|--------------|--------------|
| | | | | | Total | High | Avg |
| Brown Creeper | 9/19-11/1 | 10/25-10 | 81 | 33 | 1098 | 119 | 58 |
| White-breasted Nuthatch | 10/22 | | 1 | 0 | 10 | 2 | <1 |
| Red-breasted Nuthatch | 9/26-10/25 | 10/4-2 | 8 | 1 | 193 | 34 | 10 |
| Tufted Titmouse | | | | 1 | 71 | 12 | 4 |
| Black-capped Chickadee | 7/5 | | 11 | 3 | 65 | 8 | 3 |
| Golden-crowned Kinglet | 10/1-11/1 | 10/17-58 | 285 | 160 | 4486 | 787 | 236 |
| Ruby-crowned Kinglet | 9/19-11/1 | 10/17-40 | 245 | 99 | 4195 | 627 | 221 |
| Wood Thrush | 8/23-10/19 | | 9 | 6 | 109 | 14 | 6 |
| Veery | 8/24-10/20 | 9/15-2 | 15 | 32 | 424 | 40 | 22 |
| Gray-cheeked Thrush | 9/6-10/8 | 9/26-16 | 163 | 223 | 3047 | 260 | 160 |
| Bicknell's Thrush | | | | 0 | 2 | 1 | <1 |
| Swainson's Thrush | 8/29-11/1 | 10/1-33 | 350 | 434 | 8996 | 895 | 473 |
| Hermit Thrush | 10/1 | 10/25-35 | 238 | 186 | 3251 | 361 | 171 |
| American Robin | 7/5-10/25 | 10/16-27 | 102 | 65 | 1130 | 138 | 59 |
| TOTAL | | | 4,310 | 3,535 | 87,824 | 7,232 | 4,617 |