

**Black Swamp Bird Observatory  
Navarre Banding Station  
Fall 2019 Passerine Migration Monitoring  
Latitude 413 Longitude 0830**

The 30th fall season began daily 13 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 2019 – Navarre - New Bandings only**

<b>Date</b>	<b>Number Banded 2019</b>	<b>Cumulative Banded 2019</b>	<b>Birds/Net Hour</b>	<b>Same Date 2018</b>
8-12	<b>121</b>		<b>1.04</b>	0
8-13	42	163	0.37	0
8-14	30	193	0.25	97
8-15	30	223	0.27	119
8-16	18	241	0.17	119
8-17	22	263	0.19	133
8-18	9	272	0.15	133
8-19	23	295	0.22	133
8-20	21	316	0.19	164
8-21	24	340	0.23	164
8-22	14	354	0.17	193
8-23	22	376	0.20	213
8-24	10	386	0.09	248
8-25	11	397	0.10	266
8-26	18	415	0.16	285
8-27	RAIN	415		318
8-28	26	441	0.23	345
8-29	19	460	0.18	366
8-30	44	504	0.40	388
8-31	26	530	0.23	428
9-01	12	542	0.11	452
9-02	16	558	0.15	477
9-03	57	615	0.56	494
9-04	37	652	0.33	519
9-05	39	691	0.36	547
9-06	33	724	0.30	569
9-07	29	753	0.27	602
9-08	46	799	0.43	602
9-09	38	837	0.36	602
9-10	29	866	0.27	602
9-11	36	902	0.32	<b>755</b>
9-12	21	923	0.20	820
9-13	32	955	0.28	848
9-14	39	994	0.39	905

**Black Swamp Bird Observatory  
Navarre Banding Station  
Fall 2019 Passerine Migration Monitoring  
Latitude 413 Longitude 0830**

<b>Date</b>	<b>Number Banded 2019</b>	<b>Cumulative Banded 2019</b>	<b>Birds/Net Hour</b>	<b>Same Date 2018</b>
9-15	72	1066	0.65	905
9-16	40	1106	0.38	942
9-17	27	1133	0.25	996
9-18	26	1159	0.23	1049
9-19	32	1191	0.30	1078
9-20	63	1254	0.60	1157
9-21	65	1319	0.60	1236
9-22	96	1415	0.91	1270
9-23	68	1483	0.79	1329
9-24	<b>122</b>	1605	<b>1.10</b>	1390
9-25	78	1683	0.77	1401
9-26	61	1744	0.55	<b>1698</b>
9-27	<b>104</b>	1848	0.94	<b>1838</b>
9-28	47	1895	0.49	1931
9-29	80	1975	0.80	1994
9-30	9	1984	0.58	2063
10-01	<b>135</b>	2119	<b>1.36</b>	2099
10-02	<b>111</b>	2230	<b>1.05</b>	<b>2295</b>
10-03	71	2301	0.70	2393
10-04	<b>103</b>	2404	<b>1.04</b>	2405
10-05	<b>114</b>	2518	<b>0.99</b>	<b>2612</b>
10-06	85	2603	0.99	2612
10-07	59	2662	0.62	<b>2809</b>
10-08	77	2739	0.82	2908
10-09	47	2786	0.45	<b>3091</b>
10-10	32	2818	0.33	<b>3260</b>
10-11	29	2847	0.32	<b>3404</b>
10-12	73	2920	0.73	<b>3586</b>
10-13	39	2959	0.43	<b>3686</b>
10-14	36	2995	0.39	3770
10-15	78	3073	0.77	3840
10-16	43	3116	0.62	3895
10-17	33	3149	<b>1.08</b>	3979
10-18	<b>117</b>	3266	<b>1.27</b>	4041
10-19	72	3338	0.77	4102
10-20	58	3396	0.64	4161
10-21	44	3440	0.48	4222
10-22	RAIN	3440		4282
10-23	RAIN	3440		4349
10-24	<b>110</b>	3550	<b>1.06</b>	4380
10-25	<b>126</b>	3676	<b>1.46</b>	4428
10-26	18	3694	0.52	4442
10-27	RAIN	3694		4442
10-28	58	3752	0.69	4514
10-29	26	3778	0.30	4530

**Black Swamp Bird Observatory  
Navarre Banding Station  
Fall 2019 Passerine Migration Monitoring  
Latitude 413 Longitude 0830**

<b>Date</b>	<b>Number Banded 2019</b>	<b>Cumulative Banded 2019</b>	<b>Birds/Net Hour</b>	<b>Same Date 2018</b>
10-30	22	3800	0.67	4566

Species summary, for the Navarre banding station, fall 2019. Includes first/last capture, peak capture, 2019 new banded total, and the 2018 total for the species.

Last date is only included if the species main migration has passed through the region. 2019 totals bold if surpassed year 2018 totals, blue if surpassed average, and red if record year.

**Bird Movement:**

**Updated last: 30 October**

<b>Species</b>	<b>First /Last Capture</b>	<b>Peak Capture</b>	<b>2019 Total</b>	<b>2018 Total</b>	<b>1990 - 2018</b>		
					<b>Total</b>	<b>High</b>	<b>Avg</b>
Wood Duck					1	1	<1
Green Heron				2	4	2	<1
American Woodcock	9/22		<b>1</b>	0	42	7	1
Mourning Dove					33	7	1
Sharp-shinned Hawk					18	2	<1
Cooper's Hawk					5	1	<1
Red-tailed Hawk					4	1	<1
Northern Saw-whet Owl					2	1	<1
Eastern Screech-Owl	8/13-9/6		<b>3</b>	4	13	4	<1
Yellow-billed Cuckoo				4	119	13	4
Black-billed Cuckoo					7	1	<1
Belted Kingfisher					4	2	<1
Hairy Woodpecker	8/13-10/21		<b>3</b>	5	16	5	<1
Downy Woodpecker	8/12	8/12-3	16	24	649	41	22
Yellow-bellied Sapsucker	9/29-10/8	10/5-3	<b>15</b>	3	144	19	5
Red-head Woodpecker					4	2	<1
Red-bellied Woodpecker				2	17	3	<1
Yellow-shafted Flicker	8/12-10/16	10/2-2	<b>17</b>	19	231	19	8
Whip-poor-will					1	1	<1
Ruby-throated Hummingbird	8/12-9/28	8/26-3	<b>25</b>	14	352	58	12
Eastern Kingbird	8/12-26		<b>3</b>	1	59	18	2
Great Crested Flycatcher				1	38	9	1
Eastern Phoebe	8/12-10/25	9/9-2	<b>22</b>	21	670	54	23
Olive-sided Flycatcher	9/7-9		<b>2</b>	0	6	1	<1
Eastern Wood-Pewee	8/30-9/28	9/4-4	<b>26</b>	17	433	26	15

**Black Swamp Bird Observatory  
Navarre Banding Station  
Fall 2019 Passerine Migration Monitoring  
Latitude 413 Longitude 0830**

Species	First /Last Capture	Peak Capture	2019 Total	2018 Total	1990 - 2018		
					Total	High	Avg
Yellow-bellied Flycatcher	8/18-10/8	8/18-2	27	37	607	43	21
Acadian Flycatcher					19	2	<1
Traill's Flycatcher	8/12-9/13	8/14-2	6	3	173	18	6
Least Flycatcher	9/4-5	9/5-3	4	7	210	15	7
Blue Jay	10/6-25		4	9	145	19	5
European Starling					5	5	<1
Brown-headed Cowbird	10/19	10/19-3	3				
Red-winged Blackbird	8/12-10/25	8/12-8	26	12	821	134	28
Orchard Oriole					14	8	<1
Baltimore Oriole	8/12-9/5	8/12-6	20	15	602	86	21
Rusty Blackbird	10/4-28	10/28-5	10	29	316	47	11
Common Grackle	8/12-10/29	9/8-15	74	102	1293	116	45
Purple Finch				8	347	79	12
House Finch	10/19-29	10/25-2	5	1	415	148	14
American Goldfinch	8/25	10/24-5	8	9	563	191	19
Pine Siskin					4	2	<1
Savanna Sparrow					4	1	<1
Grasshopper Sparrow					1	1	<1
Nelson's Sparrow					3	1	<1
White-crowned Sparrow	10/18	10/18-2	2	2	284	27	10
Gambel's White-crowned Sparrow					4	2	<1
White-throated Sparrow	9/19	10/18-42	310	294	9980	1119	344
American Tree Sparrow				1	29	8	1
Chipping Sparrow	10/5		1	2	29	4	1
Field Sparrow	10/5		1	0	75	7	3
Slate-colored Junco	10/18	10/28-5	12	17	838	78	29
Song Sparrow	8/12	8/12-6	40	45	1531	140	53
Lincoln Sparrow	9/27-10/18		3	5	338	42	12
Swamp Sparrow	9/24-10/30	10/17-4	27	16	1866	239	64
Fox Sparrow	10/19-25		3	14	387	43	13
Eastern Towhee	10/21-29		2	2	29	4	1
Northern Cardinal	8/12	10/20-4	28	56	1349	75	47
Rose-breasted Grosbeak	9/22-10/6	9/27-2	5	5	238	28	8
Indigo Bunting	9/21-10/2		2	2	335	58	12
Dickcissel					1	1	<1
Scarlet Tanager	9/24		1	1	51	6	2
Purple Martin					1	1	<1
Barn Swallow					14	8	<1
Tree Swallow					5	4	<1
Cedar Waxwing	8/18-10/28	10/5-9	39	1	635	78	22
Northern Shrike					1	1	<1
Red-eyed Vireo	8/19-10/17	9/22-10	87	46	1846	103	64
Philadelphia Vireo	9/21-10/2	9/21-2	11	14	391	24	13
Warbling Vireo	8/12-9/5	8/14-3	18	12	1322	132	46
Yellow-throated Vireo	10/4		1	0	20	3	<1
Blue-headed Vireo	9/27-10/29	10/5-3	7	9	306	28	11
White-eyed Vireo	10/9-16		3	4	30	4	1

**Black Swamp Bird Observatory  
Navarre Banding Station  
Fall 2019 Passerine Migration Monitoring  
Latitude 413 Longitude 0830**

Species	First /Last Capture	Peak Capture	2019 Total	2018 Total	1990 - 2018		
					Total	High	Avg
Black-and-white Warbler	8/23-10/5	9/3-5	33	8	660	45	23
Prothonotary Warbler	8/12-9/6	8/12-17	36	26	245	26	8
Worm-eating Warbler					2	1	<1
Blue-winged Warbler					16	2	<1
Brewster's Warbler					2	1	<1
Golden-winged Warbler	9/7		1	1	25	3	<1
Nashville Warbler	9/1-10/10	10/2-3	18	21	1107	87	38
Orange-crowned Warbler	10/24		1	5	132	13	5
Tennessee Warbler	8/12-10/24	10/3-10	62	97	2164	232	75
Northern Parula	9/24-10/15	10/15-2	3	2	68	8	2
Cape May Warbler	9/3-10/25	9/23-5	15	47	2751	428	95
Yellow Warbler	8/12-10/5	8/12-21	32	9	1716	207	59
Black-throated Blue Warbler	9/3-10/24	10/15-5	51	77	1327	92	46
Myrtle Warbler	9/24-10/30	10/24-52	130	389	8735	1658	301
Audubon's Warbler					1	1	<1
Magnolia Warbler	8/31-10/16	9/25-8	93	129	4435	266	153
Cerulean Warbler					1	1	<1
Chestnut-sided Warbler	9/2-24	9/3-3	11	8	520	38	18
Bay-breasted Warbler	9/5-10/24	9/22-12	88	129	952	129	33
Blackpoll Warbler	9/2-10/25	10/4-30	255	989	16181	1464	558
Blackburnian Warbler	9/10-10/1		4	7	143	11	5
Black-throated Green Warbler	9/15-10/24	9/29-2	11	14	350	30	12
Pine Warbler				2	17	4	<1
Western Palm Warbler	10/2-12		2	0	287	54	10
Yellow Palm Warbler					6	6	<1
Prairie Warbler				1	2	1	<1
Ovenbird	8/17-10/12	9/6-5	58	52	2165	130	75
Northern Waterthrush	8/12-10/15	8/22-3	41	16	853	59	29
Kentucky Warbler					3	1	<1
Connecticut Warbler	9/6-21		4	5	229	20	8
Mourning Warbler	8/23-9/11		7	6	319	20	11
Common Yellowthroat	8/12-10/13	8/12-12	92	58	4575	458	158
Yellow-breasted Chat					23	4	<1
Hooded Warbler					8	1	<1
Wilson's Warbler	9/3-10/5	9/13-3	12	14	590	62	20
Canada Warbler	8/20-9/25	9/3-2	8	6	256	17	9
American Redstart	8/29-10/16	9/23-14	85	71	2202	158	76
Gray Catbird	8/12-10/29	8/12-19	320	344	8219	452	283
Brown Thrasher	9/18-28		2	3	159	13	5
Carolina Wren	8/12-9/19	8/12-2	4	4	388	30	13
House Wren	8/12-10/8	9/29-8	68	42	1782	153	61
Winter Wren	10/1-30	10/5-19	94	36	1768	158	61
Marsh Wren	8/30-10/17		4	2	76	9	3
Brown Creeper	9/29-10/28	10/25-8	28	32	1678	119	58
White-breasted Nuthatch	8/12		1	5	38	5	1
Red-breasted Nuthatch				27	356	91	12
Tufted Titmouse					83	12	3

**Black Swamp Bird Observatory  
Navarre Banding Station  
Fall 2019 Passerine Migration Monitoring  
Latitude 413 Longitude 0830**

Species	First /Last Capture	Peak Capture	2019 Total	2018 Total	1990 - 2018		
					Total	High	Avg
Black-capped Chickadee	8/16		6	9	154	13	5
Golden-crowned Kinglet	10/4	10/25-64	196	183	7267	787	251
Ruby-crowned Kinglet	9/25	10/25-23	134	153	5999	627	207
Wood Thrush	9/24-10/10		11	5	183	14	6
Veery	8/30-10/1	9/6-2	18	12	604	40	21
Gray-cheeked Thrush	8/30-10/19	9/24-27	183	81	5192	344	179
Bicknell's Thrush					2	1	<1
Swainson's Thrush	8/23-10/13	9/24-26	393	241	13917	895	480
Hermit Thrush	10/1	10/18-26	135	174	5370	361	185
American Robin	8/12	10/28-15	128	133	1808	138	62
<b>TOTAL</b>			3,800	4,566	138,439	7,232	4,774