

Observations from the 2010 Pennsylvania Migration Count

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Overview

Our 19th annual Pennsylvania Migration Count (PAMC) occurred on Saturday, 8 May 2010. As usual, weather was definitely a factor across the state, but birders still managed to get out and participate in observing spring migration in Pennsylvania!

Here are the numbers for 2010:

704 observers contributed
2248 field hours logged
153,429 birds tallied
219 species found
40 counties reporting

Participation was down this year. For the last few years, the report for the count has been either delayed or nonexistent, which could have contributed to the lack of participation in the count this year. However, a more definitive cause for the drop in participation this year may have been the weather.

Weather

There was some clearing in a few areas, some rain or storms in a few others; but overall, PAMC 2010 turned out to be a very windy day. In some areas, wind speeds were in excess of 25mph, with gusts as high as 45mph.

In the eastern edge of the state in *Bucks*, the calm winds of pre-dawn quickly became gale-force winds by day's end. Despite this, Diane Allison commented that the count was enjoyed.

In the center of the state at *Centre*, the day was described as "rain... then wind... then more wind... then even more wind". Nick Kerlin also commented that despite birding being difficult due to birds being "hunkered down," all observers did a great job under very difficult birding conditions.

At the western end of the state in *Greene*, Kathy Kern reported that the weather was a factor, as some of those that did participate in the count did not stay out that long. She also surmised that the warmer weather through late April moved migrants through the area, putting them well north of the county.

Speaking from experience, and feeling a little embarrassed by it, some observers did not participate due to the weather.

Participation

There were about 300 fewer birders and 1100 fewer field hours logged this year than five years ago. A variety of reasons exist for this lack of participation. The last report of the PAMC available online was 2005. With the lack of available information, interest in the state for the count may have waned a bit. That is the bad news.

The good news is that future reports should be made available both online and in print in a more timely fashion, hopefully increasing interest among birders in the state and keeping the PAMC in mind when making plans the second Saturday of May. With any luck, the 2011 count day will have good birding weather and ample participation by birders

Table 1. Top 10 counties by field hours

	County	Hours
1	Franklin	221
2	Bucks	167
3	Berks	131
4	Lancaster	123
5	Schuylkill	114
6	Westmoreland	113
7	Indiana	111
8	Bedford	103
9	Cumberland	93
10	Centre	90

Table 2. Top 10 Counties by Participants

	County	Observers
1	Franklin	67
2	Bucks	62
3	Indiana	55
4	Lancaster	44
5	Chester	34
6	Bedford	33
7	Berks	32
8	Westmoreland	30
9	Centre	27
10	Greene	25
10	Juniata	25

Species encountered

The 2010 PAMC yielded new High Counts (HC) for seven species, and tied

the high count for three others. Conversely, seven species had new low counts, and seven species counts tied their low number. Although no new species were found in 2010, since 1992, a total of about 272 species have been found on the count (not counting escapees and domestic fowl)!

Hooded Merganser, Great Cormorant, Black Vulture, Bald Eagle, Peregrine Falcon, and Blue Grosbeak were all found in record numbers. Chickadee species were also recorded as a new high number. Little Blue Heron, Sandhill Crane, and Eurasian Collared Dove all tied their old high count numbers.

However, Ruffed Grouse, Semipalmated Plover, Black-capped Chickadee, Golden-winged Warbler, Tennessee Warbler, Nashville Warbler, and Henslow's Sparrow were all counted at record lows. Northern Shoveler, Canvasback, Redhead, Northern Goshawk, Black-bellied Plover, Olive-sided Flycatcher, and Clay-colored Sparrow all tied their record lows. Undoubtedly, the record lows can be attributed to fewer participants and poor weather for much of the 2010 count day.

Once again, American Robin was the most recorded species with 13,776 individuals observed. It is interesting to note that this year, no warbler made the top 20 species. This may in part be due to the weather. Strong winds were recorded over most of the state and they could have contributed to low warbler counts.

Geese through Ducks

Canada Goose numbers were below average for PAMC counts. 6396 were counted statewide, compared to the average count of 7982 for all previous years. Mute Swan (56) was also below average, with *Berks* reporting the most swans. Fifteen species of ducks were found, with a new high count of 68 Hooded Mergansers (14 in *Dauphin*). A single Northern Shoveler was found in *Schuylkill*; a single Canvasback in *Bucks*; and a single Redhead in *Luzerne*. In general, waterfowl were found in low numbers. Exceptions were Mallard with 2293, and Wood Duck with 1037. The most woodies were found in *Juniata* (172).

Fowl through waders

Ruffed Grouse, our state bird, were at an all time low of 38. *Schuylkill* recorded almost one-third of these with 10. Only 14

counties recorded our state bird, just one-third of the counties reporting. 397 Wild Turkeys were found in 31 counties. Ten Northern Bobwhites were found, most or all of which are probably released birds.

Great Cormorant numbers were high (33), with 31 in *Chester* and 2 in *Bucks*. Two Yellow-crowned Night-Herons were found in *Cumberland* and one Snowy Egret was seen in *Bedford*.

Vultures, raptors

Although Mississippi Kites were starting to become regular in the southeast earlier this decade, no kites were located this year. Black Vultures turned up in new high numbers with a total of 465 reported, 229 of which were found in *Lancaster*. Bald Eagles are also continuing to increase with 146 found in 26 counties, 49 in *Lancaster* alone. Only 14 Northern Harriers were found, and only one Northern Goshawk was located. *Wyoming* had 3 of the harriers and *Bradford* turned up the lone goshawk.

Falcons were in evidence this year with 156 American Kestrels found, which is below the count average of 1995. Surprisingly, only two Merlins were found. For a species now confirmed breeding in the state, this seems like a low number, until one considers the counties represented in this year's count; *McKean* and *Warren*, where breeding Merlins can be found, did not report this year. Peregrine Falcons however, were recorded in all time high numbers: 22 total, of which 7 were reported in *Bucks*.

Rails and shorebirds

Seven Sandhill Cranes in *Sullivan* tied the high count. Once again, *Lawrence*, where Sandhill Cranes are more likely to be found, did not submit a report. Seven American Coots were seen in six different counties. Sixteen Virginia Rails were found in four counties, seven of which were located in *Bucks*. *Bucks* and *Lebanon* tied at three Soras apiece, combining for half of the 12 found statewide.

Shorebirds seemed low overall with only 144 species reported for the count. Only one Black-bellied Plover was found, and a low of only 11 Semipalmated Plovers were located. 542 Killdeer were located in 37 of the 40 reporting counties and 491 Spotted Sandpipers were reported in 32 of the 40 counties. *Bedford* reported five shorebird high counts. There was no report from *Erie*. It would be interesting to see if Presque Isle would have turned up any more numbers with the higher winds of the day.

Gulls and terns

A total of 1561 Laughing Gulls were found with 1534 in *Bucks*. Ring-billed Gulls Beat that with 1568, 1065 of which were located in *Lancaster*. Four tern species (Caspian, Common, Forster's, and Black) were found. All four were reported in *Lancaster*, and the high counts of three of the four species were so found in *Lancaster*. Three of the 9 Caspian Terns were located in *Lebanon*, while 58 out of 103 Common Terns, 11 out of 30 Forster's Terns, and 6 out of 8 Black Terns were in *Lancaster*.

Doves through nightjars

Eurasian Collared-Dove was reported only from *Franklin* where 44 individuals were found. Mourning Doves were reported in 39 of the 40 reporting counties. Cuckoo numbers seemed a little low with 64 Yellow-billed Cuckoos reported—14 in *Franklin*. Twenty Black-billed Cuckoos were found in 13 counties with 3 reported in *Juniata*.

Two Barn Owls were reported from *Centre* and *Lebanon*. It was not reported from Counties where the birds can usually be found. Eastern Screech, Great-horned and Barred Owls were reported in lower numbers than average. No Northern Saw-whet Owls were reported for the count.

Swifts through swallows

Bedford County reported 44 of this year's 255 Ruby-throated Hummingbirds. The number fell far below average for the PAMC. Only 140 Belted Kingfishers were reported, with 13 from *Lancaster*. *Bucks* reported 138 of the 1012 Red-bellied Woodpeckers. Only 21 Yellow-bellied Sapsuckers were reported, with 5 each from *Wayne* and *Wyoming* counties.

Greene and *Lehigh* each reported a single Olive-sided Flycatcher, to tie the low count for that species. One Yellow-bellied Flycatcher (in *York*) was reported on the count. Nine Philadelphia Vireos were found in three counties, with 7 being reported from *Juniata*.

Sixty-three of the 307 Fish Crows were reported from *Cumberland*. Considering that 128 ravens were reported from *Potter* alone in 2003, 117 Common Ravens statewide does not seem like a very high number. Eighteen of the ravens were reported from *Juniata*.

Chickadees through waxwings

The number of "chickadee sp." has risen in recent counts to a high of 219 this year. It is interesting to think this may be due to the northward advancing of the Carolina Chickadee and its hybridization with Black-capped Chickadees. 517

Carolina Chickadees were reported with 123 in *Bucks*; 677 Black-capped Chickadees were reported with 99 in *Indiana*. This represents a new low count for Black-capped Chickadees. Was it due to hybridization or was it due to the smaller number of participants this year?

Only 12 Winter Wrens were located, with 5 in *Westmoreland*. *Philadelphia* accounted for 9 out of the 10 Marsh Wrens found during the count. 7776 Carolina Wrens was above the count average, but lower than the last 10 year average.

Bucks found one half of the state's 6 Gray-cheeked Thrushes. American Robin numbers were higher than in 2009 with 13,776, but only slightly above the PAMC average. American Pipits were found in five counties with 83 of the 128 located in *Juniata*. European Starling numbers fell below the PAMC average in 2010 with only 9215 birds found.

Warblers

Warbler numbers were very low. Golden-winged, Tennessee and Nashville Warblers all set record lows. Seven of the 16 Golden-winged Warblers were reported from *Centre*. Seven of the 18 Tennessee Warblers were found in *Indiana*. Nine Nashville Warblers were found in *Centre* and *Westmoreland*, about half of the 38 statewide. *Perry* had 44 of the 168 Blackburnian Warblers and shared in the total of 2 Mourning Warblers with *Juniata*. The total number of species was good: 35 warbler species were reported across the state, but none were in very high numbers. Yellow Warblers and Common Yellowthroat did not even make the top twenty species, with just 2074 and 2162 found respectively. Mix in some wind on count day and the neck-straining warblers must become harder to find!

Tanagers through cardinal

Once again on count day, no Summer Tanagers were found. It has been missed in 3 of the past 5 counts. The lone Clay-colored Sparrow was found in *Northampton*. Twelve of 15 American Tree Sparrows were found in *Bedford*. The lone Henslow's Sparrow was found in *Indiana* County. Only 87 Dark-eyed Juncos were located, 13 in *Bradford*, well below the averages for recent counts and PAMC history.

A new high count of 40 was set for Blue Grosbeak! Twenty-nine individuals were found in *Bedford* and it was recorded in four counties.

Blackbirds through finches

A total of 558 Bobolinks were

reported in 27 counties, with 82 found in *Wyoming*. Thirty-four Rusty Blackbirds, a species of concern, were reported in five counties, 20 of them in *Bedford*. Baltimore Orioles were found in 38 of the 40 reporting counties with a total of 2666.

House Finch numbers remain well below the previous 5 year average with 1101. Both American Goldfinch and House Sparrow remained below average.

Table 3. Top 20 most abundant species

1	American Robin	13776
2	European Starling	9215
3	Red-winged Blackbird	8122
4	Common Grackle	7738
5	Canada Goose	6396
6	Barn Swallow	5100
7	Gray Catbird	4837
8	Tree Swallow	4651
9	American Crow	4630
10	Northern Cardinal	3246
11	House Sparrow	3145
12	Mourning Dove	3087
13	Red-eyed Vireo	3082
14	Blue Jay	3055
15	American Goldfinch	2934
16	Baltimore Oriole	2666
17	Song Sparrow	2509
18	Chipping Sparrow	2404
19	Mallard	2293
20	Turkey Vulture	2225

The PAMC Future

The Pennsylvania Migration Count has been the topic of much discussion recently. This year the numbers of participants were slightly lower than the PAMC/NAMC history. Was this a factor due to weather? I would like to think so. In recent years, little has been reported about the count for various reasons. Perhaps it has slipped the minds of local birders. However, stronghold counties are still participating with the vigor of old—a good and hopefully indicative factor.

The information gained through the count is still as valuable as it ever was. This year an effort was made to get the results of the count out promptly. As happens often with good intentions, promptly doesn't happen as fast as it should or as fast as we wanted it to occur. I sit here finishing up the written report in November. I wanted to be done at the end of summer.

I went into this venture expecting it to be easy. I was very wrong. This is a task that is difficult for even two people undertaking it. It is my hope that future reports be completed sooner and in more detail. It will still be a hard task, but with the experience of working on this report, I

think I can do better next season.

With that being said, I hope you make it harder for me with more participation from more people in more counties and seeing more individuals of more species of birds!

Summary

Looking at this report with only 40 of 67 counties reporting, and knowing that most of the northern tier was not represented, I am hoping for more participation from birders and bird clubs in the future. This count has really taken off in Pennsylvania. We have almost two decades of data that can be used to locally map environmental changes in species and in migration. Personally, I think we should make an effort to increase participation. I fervently hope to see 67 counties participating next year!

Thanks go out to all the participants this year that braved a sometimes wet and mostly windy day to collect data. I look forward to seeing all of you collecting more data next year.

Please note that the 2011 count will take place on May 14. Mark your calendars now!

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Editors note: the county-by-county species lists can be found on the PSO website <www.pabirds.org>. We no longer publish the species-level PAMC table in the journal.

PENNSYLVANIA MIGRATION COUNT - MAY 8, 2010

	ADAM	ALLE	ARMS	BEDF	BERK	BLAI	BRAD	BUCK	CAMB	CENT	CHES	CLEA	CLIN	CRAW
Snow Goose					11			1				12		
Canada Goose	56	131	10	216	329		110	521	52	92	249	99	28	13
Mute Swan					19			9		1				
Tundra Swan				5										
Wood Duck	2	7		12	34		10	48	4	80	67	5	1	4
Gadwall														
American Black Duck								1						
Mallard	7	31		45	136		21	207	3	102	46	47	41	3
Blue-winged Teal				2						9				
Northern Shoveler														
Green-winged Teal				1	5									
Canvasback								1						
Redhead														
Ring-necked Duck					2				1					4
Greater Scaup										1				
Bufflehead										4				
Hooded Merganser				11				6		3				9
Common Merganser				1	1		22	49						2
Ruddy Duck					1								1	
Ring-necked Pheasant				7	3		2	1	4					2
Ruffed Grouse				2	1	1	1			3			4	
Wild Turkey		5		15	13	1	16	14	7	6			11	3
Northern Bobwhite				3									4	
Common Loon				3	14			1	3	1		3	1	
Pied-billed Grebe				1	1		1	7		1				
Horned Grebe					1									
Double-crested Cormorant		1	2	52	79		4	146		22				
Great Cormorant								2			31			
American Bittern											2			
Great Blue Heron	11	21	1	28	21		17	62	1	7	15	4	2	2
Great Egret	1			3				2			1			
Snowy Egret				1										
Little Blue Heron							1				1			
Green Heron					2		1	11		4	7		1	2
Black-crowned Night-Heron					4			2						
Yellow-crowned Night-Heron														
Glossy Ibis								1						
Black Vulture	4			1	13			44			11		1	
Turkey Vulture	17	3	2	97	85	2	34	189	9	43	48	22	41	2
Osprey				4	2		1	17		5	2			
Bald Eagle				2	2		11	7		1	3		1	3
Northern Harrier				1				2						
Sharp-shinned Hawk	1	1		2	7		1	4			5			1
Cooper's Hawk	2	1		2	5	1		4		2	5	2	4	
Northern Goshawk							1							
Red-shouldered Hawk	2				1			2		2				
Broad-winged Hawk				1	3		2			1	1	1	3	2
Red-tailed Hawk	5	8		8	29		15	49	5	6	18	6	4	
American Kestrel	3			3	8		9		4	3	2		4	
Merlin														
Peregrine Falcon					5			7						1
Virginia Rail								7			5			
Sora				1				3		1	2			
American Coot				2										
Sandhill Crane														
Black-bellied Plover														
Semipalmated Plover				6										
Killdeer	1	5	2	36	10		12	32	5	22	5	12	11	6
Greater Yellowlegs				7	3			2		14	2		4	
Lesser Yellowlegs		2		20	3			13		14	2		1	

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	ADAM	ALLE	ARMS	BEDF	BERK	BLAI	BRAD	BUCK	CAMB	CENT	CHES	CLEA	CLIN	CRAW
Solitary Sandpiper		10			9		2	33		8	23	2	2	2
Spotted Sandpiper		2		11	6		12	31	11	26	6	1	4	1
Semipalmated Sandpiper				4										
Least Sandpiper				8	8			68		16	211		12	
White-rumped Sandpiper														
Pectoral Sandpiper										1				
Wilson's Snipe				4				2		2	2	2		
American Woodcock				2		1	2			2		4	2	1
Wilson's Phalarope		1												
Laughing Gull								1534						
Bonaparte's Gull				5	3				6	5			3	
Ring-billed Gull					6		7	83	8	97	1	39	2	
Herring Gull		6		46				42			1			
Great Black-backed Gull								5						
Caspian Tern				1	1									
Common Tern				10										
Forster's Tern					5			2	3	8			3	
Black Tern								1						
Rock Pigeon	12	2		55	128		24	60	7	20	14	13		23
Eurasian Collared-Dove														
Mourning Dove	13	20	3	96	212	2	68	241	76	85	48	54	36	7
Black-billed Cuckoo				2	1		2	2		1				
Yellow-billed Cuckoo		1		2	4	1		3		2	1			
Barn Owl										1				
Eastern Screech-Owl				1	2			23			13		1	
Great Horned Owl				1	4			3			3	2		
Barred Owl	1			3				1			3			
Common Nighthawk				1				3			3			
Whip-poor-will				6										
Chimney Swift	10	147		7	390			118	5	20	80	15	8	
Ruby-throated Hummingbird	2			44	11		1	19	6	9	5	4	7	2
Belted Kingfisher	2	2		5	4		4	12	1	3	6			
Red-headed Woodpecker	1			3				2	4	1		1		
Red-bellied Woodpecker	8	31	3	26	66	1	11	138		20	42	3	10	2
Yellow-bellied Sapsucker	1						3		1					
Downy Woodpecker	5	25	4	32	39		9	50	5	20	25	3	9	2
Hairy Woodpecker	2	7	1	3	11	1	4	21	2	14	4	1	4	2
Northern Flicker	5	10		27	26	2	15	76	6	25	26	6	17	1
Pileated Woodpecker	3	3		7	6	1	3	5	3	17	6	1	5	
Olive-sided Flycatcher														
Eastern Wood-Pewee	7			15	33	2	3	28		4	27			
Yellow-bellied Flycatcher														
Acadian Flycatcher					8	2	1	3		1	11		2	
Alder Flycatcher					1					1				
Willow Flycatcher	1				1			11		1	6			
Least Flycatcher				2			5		1	4				
Eastern Phoebe	5	3		24	31	1	16	45	2	18	11	3	7	
Great Crested Flycatcher	12			5	43	3	2	63		9	21		6	
Eastern Kingbird	9	5		8	12		12	80	1	16	46	1	2	16
White-eyed Vireo	3				5			7			20			
Blue-headed Vireo		1			1	1	8	5	1	20	1	4		
Yellow-throated Vireo					10		2	8			5			
Warbling Vireo	4	8		1	16		2	86		6	30		1	1
Philadelphia Vireo								1						
Red-eyed Vireo	9	29		35	141	20	8	139	6	97	89	11	45	4
Blue Jay	16	57	2	95	181	3	43	219	4	130	89	62	42	2
American Crow	7	51	5	98	185	2	80	264	171	195	89	124	62	8
Fish Crow	30				23			15		6	12			
Common Raven	2		1	10	1		8		3	7		4	3	
Horned Lark				2							5		2	
Purple Martin	12			67	18				2	3	8		2	

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	ADAM	ALLE	ARMS	BEDF	BERK	BLAI	BRAD	BUCK	CAMB	CENT	CHES	CLEA	CLIN	CRAW
Common Yellowthroat	7	11		76	104	2	33	231	5	97	77	14	39	10
Hooded Warbler		1		6	21	3		3	2	20		1	9	1
Wilson's Warbler	2			2	2			4						
Canada Warbler					2			2	1	11			1	
Yellow-breasted Chat				1	1					2	3			
Scarlet Tanager	5	10		31	62	10	4	45	2	26	24	15	32	2
Eastern Towhee	7	33	1	118	109	7	9	138	7	126	54	31	12	1
American Tree Sparrow				12				2						
Chipping Sparrow	12	12	2	87	120	5	57	77	16	60	49	48	32	6
Clay-colored Sparrow														
Field Sparrow	4	3		12	43	2	9	41	3	12	18	6	6	5
Vesper Sparrow									1	1		2		
Savannah Sparrow							2	23	1	4	18	4	1	
Grasshopper Sparrow					3			3	1		2	2		
Henslow's Sparrow														
Song Sparrow	10	45	1	42	95	2	59	209	10	111	83	38	34	18
Lincoln's Sparrow										1				
Swamp Sparrow				4	1		3	9	1	27	5	6	3	
White-throated Sparrow	1		1	7	10		1	13	4	6	4		1	1
White-crowned Sparrow		1	1	21	1			10		15		2	3	3
Dark-eyed Junco								13		9				
Northern Cardinal	32	104	9	76	177	3	31	249	27	85	100	34	30	12
Rose-breasted Grosbeak		1		33	15		27	59	7	23	2	14	19	3
Blue Grosbeak				29				3						
Indigo Bunting	3	13		39	39	1	8	51		1	33	5		1
Bobolink	4							67	56	16	3	43	12	17
Red-winged Blackbird	20	114	3	297	247		269	551	152	327	137	119	57	49
Eastern Meadowlark	6			20	13		6	5	6	8	17	8	1	
Rusty Blackbird				20			7							
Common Grackle	23	45	11	240	329	2	82	444	128	260	72	100	182	4
Brown-headed Cowbird	20	19		47	93	3	21	273	20	39	69	9	13	13
Orchard Oriole	1	8		10	13		1	28		2	19		2	
Baltimore Oriole	4	35		44	104	2	46	268	5	73	95	10	32	5
Purple Finch				33			16		5	5		7		1
House Finch	6	8	7	47	110		24	77	12		30	4	12	9
American Goldfinch	27	68	7	138	132	3	91	167	35	106	79	32	29	18
House Sparrow	19	14	9	148	192		48	97	44	86	35	52	31	48
Accipiter sp.														
Buteo sp.							1							
peep sp.													6	
Empid. sp.												1		
crow sp.										6	8			
swallow sp.													1	
chickadee sp.		18		4	48			33						
Brewster's Warbler														
Lawrence's Warbler														
Total Species	88	75	34	141	144	47	105	149	85	136	122	89	106	65
Total sp.	0	1	0	1	1	0	1	1	0	1	1	1	2	0
Total Individuals	833	1794	130	4637	7843	132	2515	13060	1617	4715	4078	1889	1998	476
Hours/Observer	1.06	2.54	2.00	3.14	4.11	6.50	3.99	2.70	5.37	18.00	2.00	4.86	2.52	3.50
Birds/Hour	56.28	33.69	32.50	44.69	59.64	20.31	30.01	78.09	20.09	52.39	59.97	55.56	72.00	68
Total Participants:	14	21	2	33	32	1	21	62	15	27	34	7	11	2
How many went owling?				6	2		2	5			5			
Hours: Daytime Field Birding	14.80	53.25	4.00	99.00	129.00	6.50	59.80	161.25	80.50	90.00	63.00	34.00	27.75	7
Hours: Nocturnal Owling				4.75	2.50		3.00	6.00			5.00			
Total Party Hours:	14.80	53.25	4.00	103.75	131.50	6.50	83.80	167.25	80.50	90.00	68.00	34.00	27.75	7
Miles on Foot	2	9	0	36.25	51	3	9.5	85.95	3	54	30	7	7.5	3
Miles by car, bike, boat, etc.	10	40.5	0	158.2	336		332	319	149	140	110	105	174	4
Total miles traveled:	12	49.5	0	194.45	387	3	341.5	404.95	152	194	140	112	181.5	7

PENNSYLVANIA MIGRATION COUNT - MAY 8, 2010

	CUMB	DAUP	FORE	FRAN	GREE	HUNT	INDI	JEFF	JUNI	LANC	LEBA	LEHI	LUZE	LYCO
Snow Goose										13	3			
Canada Goose	201	177	29	415	175	23	321		259	794	186	58	99	17
Mute Swan	2													
Tundra Swan									1					
Wood Duck	118	40	4	34	19	13	18		172	71	4	6	28	6
Gadwall		4												
American Black Duck				2						3				
Mallard	124	72	1	219	63	5	47		104	206	132	21	76	11
Blue-winged Teal				1			1							
Northern Shoveler														
Green-winged Teal														
Canvasback														
Redhead													1	
Ring-necked Duck														
Greater Scaup							1			2				
Bufflehead										1				
Hooded Merganser	4	14		2		4			3	5	2			
Common Merganser			1	3					10	6		4	6	2
Ruddy Duck										2	1		2	
Ring-necked Pheasant					1	1	5		2	2	4		1	2
Ruffed Grouse	2			1		3	5		3		1			
Wild Turkey	23	1	1	21	44		46		19	3	11	1	5	8
Northern Bobwhite														
Common Loon	1		4				3			14	3		6	
Pied-billed Grebe	1			1										
Horned Grebe							1							
Double-crested Cormorant	3	10					6		52	271			4	3
Great Cormorant														
American Bittern											1			
Great Blue Heron	8	4		20	35	4	13		12	81	19	2	11	1
Great Egret	2	6		1		1	1			7				
Snowy Egret														
Little Blue Heron														
Green Heron	19	2		7	1	2	3		11	8	2			
Black-crowned Night-Heron	23									5				
Yellow-crowned Night-Heron	2													
Glossy Ibis										1	1			
Black Vulture	17	3	9	23		1			11	229	22	1	6	
Turkey Vulture	78	24		246	158	41	94		139	223	84	14	36	15
Osprey		1	2	7		2	1		2	15	1		5	
Bald Eagle	4	6	3	2			1		8	49	6	3	2	
Northern Harrier				2						1			2	
Sharp-shinned Hawk	3		1	5			3		5	2	1			1
Cooper's Hawk	6		1	7	2		3		2	11	1	2	2	1
Northern Goshawk														
Red-shouldered Hawk	2			2		2	5		5		2			
Broad-winged Hawk	2			4		2	4		4	4	1		5	
Red-tailed Hawk	19	7	1	55	28	2	34		37	28	10	5	14	5
American Kestrel	14			17	11	5	4		10	12			4	1
Merlin	1									1				
Peregrine Falcon										4				1
Virginia Rail	2												2	
Sora	1										3		2	
American Coot			1							1			1	
Sandhill Crane														
Black-bellied Plover										1				
Semipalmated Plover							1			2				
Killdeer	20	5	1	62	30	8	33	1	31	18	15	6	19	2
Greater Yellowlegs				6						7	3			
Lesser Yellowlegs	3			4					4	14	13		7	
Solitary Sandpiper	6	2		14	4	8	1		17	17	6	1	13	2
Spotted Sandpiper	15	1	2	20	5	1	15		162	36	14	4	9	

PENNSYLVANIA MIGRATION COUNT - MAY 8, 2010

	CUMB	DAUP	FORE	FRAN	GREE	HUNT	INDI	JEFF	JUNI	LANC	LEBA	LEHI	LUZE	LYCO
Semipalmated Sandpiper				1					2	1				
Least Sandpiper	1			18			1			104	1		15	
White-rumped Sandpiper										1				
Pectoral Sandpiper										2				
Wilson's Snipe									1					
American Woodcock	7		3	3	2		8		3		2		3	
Wilson's Phalarope														
Laughing Gull														
Bonaparte's Gull			4				8			58				7
Ring-billed Gull	1	4	2	5			10		7	1065	1	4		86
Herring Gull										2				
Great Black-backed Gull										1				
Caspian Tern							2			2	3			
Common Tern			2				33			58				
Forster's Tern							2		1	11				
Black Tern							1			6				
Rock Pigeon	93	17		196	20	44	34	1	278	166	18	16	66	16
Eurasian Collared-Dove				4										
Mourning Dove	129	81	9	415	106	27	189		164	141	62	29	66	14
Black-billed Cuckoo				1	1		2		3		1			
Yellow-billed Cuckoo	2			14			1	1	4	6	1			2
Barn Owl											1			
Eastern Screech-Owl	2			2					13	4	2			
Great Horned Owl	2			4							1			
Barred Owl	4			1	4				1	1	2		2	
Common Nighthawk							1			1	1			
Whip-poor-will	16		1	4		1			5		6		3	
Chimney Swift	56	27	1	111	76	4	108		181	64	4	38	35	2
Ruby-throated Hummingbird	4	2	2	25	6	2	18		20	13	5		4	6
Belted Kingfisher	10	1	1	6	9	2	3		13	8	5	1	7	1
Red-headed Woodpecker	5			12	1	2			2					
Red-bellied Woodpecker	37	18	1	84	42	10	47	1	78	69	29	14	2	2
Yellow-bellied Sapsucker			1	2										1
Downy Woodpecker	26	13		53	19	4	22	1	33	32	9	4	10	3
Hairy Woodpecker	5	1	1	10	6	2	10		10	10	7	6	2	
Northern Flicker	26	14	3	61	22	10	47		55	30	22	11	14	3
Pileated Woodpecker	9	4		22	4	1	17		14	8	9	2	4	1
Olive-sided Flycatcher					1							1		
Eastern Wood-Pewee	14	1		39	5		8		16	44	11	4	2	1
Yellow-bellied Flycatcher														
Acadian Flycatcher	7		1	10	10	1	1		19	24	1			
Alder Flycatcher														
Willow Flycatcher	4			2	1		2		2	3	5		4	
Least Flycatcher				1	1		1		3				5	3
Eastern Phoebe	33	14	3	49	19	11	50		56	31	16	15	16	5
Great Crested Flycatcher	36	6		40	6	7	5		70	37	16	2	8	3
Eastern Kingbird	18	12	8	60	6	4	20	2	50	53	17	4	7	3
White-eyed Vireo	19	1		6	10		9		1	30	12			
Blue-headed Vireo	7		3	2		10	13	1	13	4	1		2	2
Yellow-throated Vireo	4			3	3		7		12	8	3		2	3
Warbling Vireo	6	12		8	9	3	4		58	36	2	15	8	3
Philadelphia Vireo									7					
Red-eyed Vireo	150	25	18	469	66	71	158		266	140	93	34	35	3
Blue Jay	111	89	10	246	93	31	193	4	260	176	73	57	36	12
American Crow	114	69	113	316	181	100	398	2	275	212	71	16	96	13
Fish Crow	63	3		24					22	52	18	8	13	
Common Raven	1		1	16	6	2	3	1	18		1		3	5
Horned Lark	18			35		1	8			15	2			
Purple Martin	131			65	183		1		188	249	8			2
Tree Swallow	87	42	6	141	104	59	415	4	180	343	187	57	301	47
Northern Rough-winged Swallow	81	33	1	45	61	4	328	5	114	52	10	10	15	9
Bank Swallow			6	1			5			10	1		9	1
Cliff Swallow			5	10		12	7		26	19			4	9

PENNSYLVANIA MIGRATION COUNT - MAY 8, 2010

	CUMB	DAUP	FORE	FRAN	GREE	HUNT	INDI	JEFF	JUNI	LANC	LEBA	LEHI	LUZE	LYCO
Barn Swallow	247	10	7	491	164	97	750		358	316	61	10	23	53
Carolina Chickadee	17			11	33					97	20			
Black-capped Chickadee	2	4	8	40		31	99	4	19		6	3	37	6
Tufted Titmouse	66	40	6	134	53	28	63	2	186	105	29	13	23	8
Red-breasted Nuthatch	1						1						2	1
White-breasted Nuthatch	9	1	1	29	1		37		16	15	2	4	1	1
Brown Creeper				2		4	2							1
Carolina Wren	23	17		64	6	16	14		109	70	17	9	4	4
House Wren	35	27	1	89	12	12	62	2	38	50	37	29	16	7
Winter Wren			1						1		1			
Marsh Wren														
Golden-crowned Kinglet	2			2		3								
Ruby-crowned Kinglet							1		4	6	3			
Blue-gray Gnatcatcher	34	7		39	10	17	9		63	88	24	14	9	4
Eastern Bluebird	49	28	2	277	62	20	62	2	86	103	38		17	7
Veery	1		7	2		2	3		2	16	12	4	8	1
Gray-cheeked Thrush				1					1	1				
Swainson's Thrush			1				3		1	4				
Hermit Thrush			4	10			1			1			4	2
Wood Thrush	52	19	3	104	36	4	94		99	199	80	43	13	16
American Robin	417	190	63	1431	641	115	1381	4	721	551	239	140	424	53
Gray Catbird	178	172	2	275	64	42	177	2	374	324	235	99	67	13
Northern Mockingbird	48	8		137	35	8	15		27	44	10	4	6	1
Brown Thrasher	22	5		74	15	5	16	1	32	14	17		5	5
European Starling	411	103	72	1276	351	170	515		593	505	139	54	301	31
American Pipit	37			6					83		1			
Cedar Waxwing	6	6		33		8	6		287	30	35	19	11	20
Blue-winged Warbler	17	4		1	5	6	13		3	11	27	1	3	
Golden-winged Warbler	1			2		1			2	1				
Tennessee Warbler				1			7			1				
Orange-crowned Warbler									1					
Nashville Warbler			1						1	1	1	1	2	
Northern Parula	13	1	1	2	4	16	2		15	20	7	4	3	1
Yellow Warbler	35	64	4	71	96	30	165		50	67	27	6	76	22
Chestnut-sided Warbler	2		8	1		7	13	1	15	6	9		11	3
Magnolia Warbler		1	6		2	2	7		2	5			8	1
Cape May Warbler				1		3				1			4	
Black-throated Blue Warbler	13	2	1	2		5	4		18	4	13	7	5	2
Yellow-rumped Warbler	31	2	5	6	2	4	26		29	29	9	8	19	11
Black-throated Green Warbler	25		9	23	1	17	50		21	7	23	1	26	7
Blackburnian Warbler	3		4			14	4		21	3	3		8	1
Yellow-throated Warbler	1			4	5		2			5	1			
Pine Warbler	1			9		1	2			3	1		3	
Prairie Warbler	14	6		2	1	6	7		12	16	6	1	5	6
Palm Warbler					1	1			2					
Bay-breasted Warbler	1						2			2		1		
Blackpoll Warbler	13			4			1		23	17	6	17	5	
Cerulean Warbler	4	3		10	14		5		8	3	1	1	3	
Black-and-white Warbler	20	1		11	1	4	6		26	11	24	3	16	9
American Redstart	23	18	3	71	40	11	41	1	121	29	28	13	41	15
Prothonotary Warbler									1	10				
Worm-eating Warbler	7			5		1			19	13	2	7	3	2
Ovenbird	66	10	13	148	17	48	123	1	157	100	128	21	80	17
Northern Waterthrush	3			2			1		8	4	9	2	6	
Louisiana Waterthrush	15		1	13	12	4	8		31	21	10	2	3	4
Kentucky Warbler	2				3		11			2				
Mourning Warbler									1					
Common Yellowthroat	51	32	12	60	63	39	172	1	104	60	89	17	48	20
Hooded Warbler	57	4	7	24	14	6	54		43	3	8			
Wilson's Warbler				1					1	2	2			
Canada Warbler	2			2	1		2		1	1	3		1	
Yellow-breasted Chat	11	2		4	2	4	9		3	15	3			
Scarlet Tanager	31	12	8	72	46	19	94	1	83	49	20	16	22	13

PENNSYLVANIA MIGRATION COUNT - MAY 8, 2010

	CUMB	DAUP	FORE	FRAN	GREE	HUNT	INDI	JEFF	JUNI	LANC	LEBA	LEHI	LUZE	LYCO
Eastern Towhee	89	24	10	115	119	56	223	2	127	72	57	9	27	10
American Tree Sparrow				1										
Chipping Sparrow	78	28	7	249	110	61	315	2	159	138	42	16	56	5
Clay-colored Sparrow														
Field Sparrow	32	4		53	20	10	30	1	34	36	14	3	14	6
Vesper Sparrow	8			7										
Savannah Sparrow	14		2	7		2	1		3	17			1	2
Grasshopper Sparrow	21			16					3	8	2		6	
Henslow's Sparrow							1							
Song Sparrow	66	37	15	180	93	69	152	2	257	119	17	26	42	13
Lincoln's Sparrow				1					1	2	1			
Swamp Sparrow	2						7			4	1		7	3
White-throated Sparrow	4	4	1	28			9		19	14	12	1	2	2
White-crowned Sparrow	6	1	3	10	4	5	7		11	1	1		1	9
Dark-eyed Junco			4			3	1		1		2		9	8
Northern Cardinal	124	81	11	322	129	34	190	1	240	302	44	31	28	13
Rose-breasted Grosbeak	4	1	5	7	41		62	1	30	11	5	6	10	1
Blue Grosbeak				2						6				
Indigo Bunting	72	20	3	114	29	15	41		149	145	23	1	16	4
Bobolink	24		3	5	8	6	4		3	6	3		40	4
Red-winged Blackbird	349	158	87	575	447	102	762		420	304	109	24	71	63
Eastern Meadowlark	23	1	1	43	25	6	29		10	5	3		6	10
Rusty Blackbird	5						1		1					
Common Grackle	548	74	39	996	150	60	622	1	1212	408	96	42	112	98
Brown-headed Cowbird	83	20	14	225	73		93		163	145	48	18	32	11
Orchard Oriole	6	4		19	15	1	10		22	33	13	1	2	
Baltimore Oriole	86	48	10	209	64	25	129		374	155	65	40	26	21
Purple Finch			2	6	2		32	4	3				4	4
House Finch	30	52	4	184	39	7	56		63	59	23	22	9	9
American Goldfinch		78	29	352	104	44	212		211	169	71	22	41	36
House Sparrow		61	8	422	132	63	217		195	182	52	24	29	9
Accipiter sp.		1												
Buteo sp.		1												
peep sp.										3				
Empid. sp.											1			
crow sp.	7									39				30
swallow sp.														
chickadee sp.	24	24		21						18	9	6		
Brewster's Warbler				1					2		1			
Lawrence's Warbler				1					1					
Total Species	138	86	89	149	99	104	144	32	144	162	141	86	126	102
Total sp.	2	3	0	3	0	0	0	0	2	3	3	1	0	1
Total Individuals	5858	1826	786	13072	5076	1960	10233	60	11262	10974	3464	1338	3131	1054
Hours/Observer	4.89	3.38	7.50	3.30	2.92	3.40	2.02	1.30	3.12	2.80	4.36	3.38	6.10	2.21
Birds/Hour	62.99	38.65	52.40	59.15	69.53	82.35	91.94	46.15	144.38	89.22	44.13	99.11	51.33	68.00
Total Participants:	19	15	2	67	25	7	55	1	25	44	18	4	10	7
How many went owling?	2		2	8		1	2		9		4		2	6
Hours: Daytime Field Birding	90.00	52.25	14.00	215.00	73.00	23.00	109.30	1.30	70.00	123.00	74.50	13.50	56.00	14.00
Hours: Nocturnal Owling	3.00		1.00	6.00		0.80	2.00		8.00		4.00		5.00	1.50
Total Party Hours:	93.00	47.25	15.00	221.00	73.00	23.80	111.30	1.30	78.00	123.00	78.50	13.50	61.00	15.50
Miles on Foot	38	16.5	3	28	6	6.5	43.2	1	23.5	56	33.5	5.5	21	5
Miles by car, bike, boat, etc.	287	18	123	756	469	60	546		237	348.6	283	28	232	100
Total miles traveled:	325	34.5	126	784	475	66.5	589.2	1	260.5	404.6	316.5	33.5	253	105

PENNSYLVANIA MIGRATION COUNT - MAY 8, 2010

	MIFF	MONG	MONT	NORA	PERR	PHIL	SCHU	SULL	WAYN	WEST	WYOM	YORK
Snow Goose				5								
Canada Goose		5	27	190	18	230	224	21	106	391	215	309
Mute Swan			1	10			3			8		3
Tundra Swan							1					
Wood Duck				7	1	34	74	6	17	33	22	36
Gadwall												
American Black Duck												
Mallard		2	3	86	12	149	63	2	8	93	59	46
Blue-winged Teal							1					2
Northern Shoveler							1					
Green-winged Teal												
Canvasback												
Redhead												
Ring-necked Duck				3							5	
Greater Scaup												
Bufflehead											1	
Hooded Merganser					2				1		2	
Common Merganser				11	3		1		4		16	
Ruddy Duck			3							2		
Ring-necked Pheasant							6	1		4		
Ruffed Grouse					1		10					
Wild Turkey	1			4	4	6	39	7	24	8	30	9
Northern Bobwhite											3	
Common Loon							11				1	2
Pied-billed Grebe							2			1	1	
Horned Grebe												2
Double-crested Cormorant			12	28	1	53	1			4	3	7
Great Cormorant												
American Bittern												
Great Blue Heron		1		3	2	7	14	1	8	20	12	23
Great Egret					4					1		3
Snowy Egret												
Little Blue Heron												
Green Heron			1	2	1	3	5	1	1	3	1	9
Black-crowned Night-Heron												22
Yellow-crowned Night-Heron												
Glossy Ibis												
Black Vulture				10	2	5	3					49
Turkey Vulture	6	4	2	69	42	29	108	11	35	80	27	66
Osprey			1	8		2	13		1	8	4	9
Bald Eagle			1	1	2	5	7		4		4	8
Northern Harrier								1		1	3	1
Sharp-shinned Hawk					1	2	3	1	1	3	1	1
Cooper's Hawk						3	3		1			2
Northern Goshawk												
Red-shouldered Hawk							8		1	4	2	1
Broad-winged Hawk							8	1		13	1	1
Red-tailed Hawk	2	1	3	10	2	16	29	7	4	40	12	23
American Kestrel			1	4	2	2	11	6	2	4	6	4
Merlin												
Peregrine Falcon			4									
Virginia Rail												
Sora												
American Coot			1	1								
Sandhill Crane								4			3	
Black-bellied Plover												
Semipalmated Plover				2								
Killdeer	2		1	2		7	30	5	18	40	15	12
Greater Yellowlegs						5	4					
Lesser Yellowlegs				9		3		5		6		6
Solitary Sandpiper			1	20		4	10	1	4	11	1	10
Spotted Sandpiper			1	12	2	7	34	1	2	16	2	19

PENNSYLVANIA MIGRATION COUNT - MAY 8, 2010

	MIFF	MONG	MONT	NORA	PERR	PHIL	SCHU	SULL	WAYN	WEST	WYOM	YORK
Semipalmated Sandpiper												
Least Sandpiper				47		92		1		3		7
White-rumped Sandpiper				1								
Pectoral Sandpiper				1								1
Wilson's Snipe							2	2				
American Woodcock	1						2					
Wilson's Phalarope												
Laughing Gull						27						
Bonaparte's Gull												
Ring-billed Gull			1	8		87						44
Herring Gull						3				1		
Great Black-backed Gull						4						
Caspian Tern												
Common Tern										3		
Forster's Tern												
Black Tern												
Rock Pigeon		6		6	43	75	83	12	7	91	43	59
Eurasian Collared-Dove												
Mourning Dove	9	7	2	20	29	111	164	10	59	145	48	90
Black-billed Cuckoo									1	1	2	
Yellow-billed Cuckoo						2	3		5	2		
Barn Owl												
Eastern Screech-Owl						2	3					
Great Horned Owl							2			1		1
Barred Owl								3			1	
Common Nighthawk							1					
Whip-poor-will					5		13					
Chimney Swift		1		97	5	71	40	1	25	104	10	13
Ruby-throated Hummingbird			1	3	1	6	9			15		3
Belted Kingfisher			1	1	1	2	16		1	4	5	3
Red-headed Woodpecker										1		1
Red-bellied Woodpecker	1	2	3	11	10	55	51		6	39	8	31
Yellow-bellied Sapsucker								1	5		5	1
Downy Woodpecker		1		6	1	25	33		3	34	8	7
Hairy Woodpecker			1	1	1	9	7		3	11	2	5
Northern Flicker	1	5	2	4	4	40	60	5	3	27	21	13
Pileated Woodpecker				2	5	2	18		1	11	12	2
Olive-sided Flycatcher												
Eastern Wood-Pewee				1	8	10	12			13		15
Yellow-bellied Flycatcher												1
Acadian Flycatcher					19		2			11		4
Alder Flycatcher							2					
Willow Flycatcher						5	1	1		8		2
Least Flycatcher							1	5	29	2	10	
Eastern Phoebe			4	9	8	5	47	3	9	25	28	13
Great Crested Flycatcher	2	2	1	4	5	20	26		2	1	9	22
Eastern Kingbird	1	1		4		47	31	12	10	20	9	23
White-eyed Vireo				2	2	7	9			7		12
Blue-headed Vireo				3	4	1	19	3	4	8	7	1
Yellow-throated Vireo				2	15	1	3		1	2	16	2
Warbling Vireo				14	1	79	4		4	9	18	13
Philadelphia Vireo											1	
Red-eyed Vireo	3	2		23	244	72	266	3	27	162	69	50
Blue Jay	24		10	41	7	33	250	20	33	175	63	63
American Crow	3	2	6	63	24	47	353	61	160	334	172	88
Fish Crow			1			1	11				1	4
Common Raven					1		2	2	3	10	3	
Horned Lark					1		2			1		
Purple Martin	40						37			15		36
Tree Swallow	3		34		30	316	148	17	125	192	50	95
Northern Rough-winged Swallow		4		45	12	61	61		5	41	6	84
Bank Swallow				3	10	18	44		20		19	
Cliff Swallow					2		60		3	9		5

PENNSYLVANIA MIGRATION COUNT - MAY 8, 2010

	MIFF	MONG	MONT	NORA	PERR	PHIL	SCHU	SULL	WAYN	WEST	WYOM	YORK
Barn Swallow	15	4	10	120	63	106	226	43	194	237	84	103
Carolina Chickadee		3			7	52				6		38
Black-capped Chickadee	1			6	3		85	6	16	42	19	
Tufted Titmouse			4	17	17	48	127	1	9	72	34	24
Red-breasted Nuthatch							3					
White-breasted Nuthatch		1		9	3	12	20	1	5	19	7	6
Brown Creeper							4					
Carolina Wren	1			10	16	46	39	1	2	15	17	23
House Wren	2	1	3	20	3	86	57		15	32	16	15
Winter Wren					1				2	5		
Marsh Wren						9						
Golden-crowned Kinglet							4	1		1		
Ruby-crowned Kinglet						1	10				2	
Blue-gray Gnatcatcher		1		11	27	46	47		1	14	10	31
Eastern Bluebird	4		7	11	6	7	67	8	16	93	35	53
Veery					6	9	25		6	4	1	1
Gray-cheeked Thrush												
Swainson's Thrush					2	8	2		1	2		
Hermit Thrush							2	1	4		2	
Wood Thrush	3	1	2	26	17	56	121	1	6	89	36	39
American Robin	20	63	13	141	41	806	365	39	165	1394	244	250
Gray Catbird	16	4	15	84	17	464	250	4	43	177	96	156
Northern Mockingbird	3		1	11	2	44	39			22	8	35
Brown Thrasher	3		1	1	2	4	18	1	1	9	12	10
European Starling	6	75	2	145	86	398	135	13	159	985	132	209
American Pipit												
Cedar Waxwing			5	17	1		30	1				17
Blue-winged Warbler				5	3		35		3	7	14	7
Golden-winged Warbler					1							
Tennessee Warbler						2	3			2		
Orange-crowned Warbler												
Nashville Warbler	2				1	1	3	2		9	1	
Northern Parula		1		1	6	57	37			18	1	12
Yellow Warbler	10		4	17	8	147	93	19	77	139	145	43
Chestnut-sided Warbler	1			6	2	4	42	22	16	23	15	2
Magnolia Warbler	1		1	2	1	12	11	1		15	1	4
Cape May Warbler						1	5					
Black-throated Blue Warbler	1			3	9	15	39	5		10	11	6
Yellow-rumped Warbler	2			2	2	26	102	3	9	8	21	21
Black-throated Green Warbler				3	21	5	107	6	9	17	26	1
Blackburnian Warbler					44	1	9	8	6	6	1	1
Yellow-throated Warbler												
Pine Warbler							8		3	1		
Prairie Warbler				3			15	7		5	17	5
Palm Warbler							3	1				1
Bay-breasted Warbler						2	6					
Blackpoll Warbler	1	1		1	4	65	18					19
Cerulean Warbler					10					4		8
Black-and-white Warbler	1			5	13	25	93	1	12	11	15	3
American Redstart	3	1		11	56	42	67	2	15	40	57	26
Prothonotary Warbler												1
Worm-eating Warbler	2			1	9		34			1	1	3
Ovenbird	6			15	104	19	285	8	43	21	75	25
Northern Waterthrush				4		11	5		4	4	1	1
Louisiana Waterthrush					15	2	13		2	4	8	5
Kentucky Warbler					1	1				4		1
Mourning Warbler					1							
Common Yellowthroat	7		3	8	16	70	227	10	55	166	90	36
Hooded Warbler	1				29	2	41		1	45	2	2
Wilson's Warbler				1			2			2		
Canada Warbler	1				5	2	8			3		
Yellow-breasted Chat	1			1						7		4
Scarlet Tanager	4			8	37	20	70	1	5	50	23	14

PENNSYLVANIA MIGRATION COUNT - MAY 8, 2010

	MIFF	MONG	MONT	NORA	PERR	PHIL	SCHU	SULL	WAYN	WEST	WYOM	YORK
Eastern Towhee	11		3	11	26	21	104	10	8	215	16	29
American Tree Sparrow												
Chipping Sparrow	15	5		10	42	8	180	6	41	172	46	30
Clay-colored Sparrow				1								
Field Sparrow	9		3	9	3		53	4	5	42	19	15
Vesper Sparrow							2			1		
Savannah Sparrow					1		3	1		2	8	7
Grasshopper Sparrow							3			8	1	6
Henslow's Sparrow												
Song Sparrow	5	4	2	18	18	90	179	5	67	153	79	44
Lincoln's Sparrow				1		1				2		
Swamp Sparrow						6	3	1	2	5	5	1
White-throated Sparrow				1	1	3	13	6	1	4	4	4
White-crowned Sparrow							1		5	6	3	
Dark-eyed Junco							11	2	8	11	4	
Northern Cardinal	8	4	2	29	29	105	170	2	7	207	63	101
Rose-breasted Grosbeak			1		4	9	18	2	2	65	19	1
Blue Grosbeak												
Indigo Bunting	7		1	6	42	13	158	1	9	83	20	48
Bobolink				3		25	14	18	72	15	82	5
Red-winged Blackbird	2	4	6	57	79	323	309	43	268	735	335	148
Eastern Meadowlark			2		3	1	4	3	11	26	18	4
Rusty Blackbird												
Common Grackle	15	3	20	71	61	161	346	11	26	424	59	161
Brown-headed Cowbird	2	4	2	20	12	53	90	11	41	69	12	80
Orchard Oriole	2	2	1	1		41	4			10		18
Baltimore Oriole	8	6	7	31	23	149	166	6	64	114	54	63
Purple Finch							1	4	6	13	4	
House Finch	1	2		10	7	35	71		6	50	11	5
American Goldfinch	10	3	3	11	16	82	158	6	35	169	85	55
House Sparrow	10			23	34	147	181	1	22	427	66	17
Accipiter sp.												
Buteo sp.												
peep sp.							3					
Empid. sp.										1		
crow sp.												3
swallow sp.												
chickadee sp.										13		1
Brewster's Warbler							1			1		
Lawrence's Warbler												
Total Species	56	38	56	103	106	113	146	84	99	133	115	125
Total sp.	0	0	0	0	0	0	2	0	0	3	0	2
Total Individuals	322	239	254	2041	1719	5915	7927	601	2407	9200	3391	3602
Hours/Observer	2.25	1.00	2.83	2.25	12.50	2.98	5.21	10.50	5.76	3.77	4.60	4.85
Birds/Hour	35.78	239.00	29.88	90.71	137.52	99.41	63.42	57.24	69.67	81.42	73.72	57.17
Total Participants:	4	1	3	10	1	20	24	1	6	30	10	13
How many went owling?					1	3	5		2	1	2	1
Hours: Daytime Field Birding	9.00	1.00	8.50	22.50	12.00	57.50	119.00	10.50	32.30	112.00	44.00	61.00
Hours: Nocturnal Owling					0.50	2.00	6.00		2.25	1.00	2.00	2.00
Total Party Hours:	9.00	1.00	8.50	22.50	12.50	59.50	125.00	10.50	34.55	113.00	46.00	63.00
Miles on Foot	5	2	5	5	4	30	84.3	0.75	3.5	52.6	12	25.5
Miles by car, bike, boat, etc.	40		8	80	156	10	322	77.8	290	566	290	231
Total miles traveled:	45	2	13	85	160	40	406.3	78.55	293.5	618.6	302	256.5

PENNSYLVANIA MIGRATION COUNT - MAY 8, 2010

	Totals	Number of Counts	High	High Count
Snow Goose	45	6	13	Lancaster
Canada Goose	6396	37	794	Lancaster
Mute Swan	56	9	19	Berks
Tundra Swan	7	3	5	Bedford
Wood Duck	1037	34	172	Juniata
Gadwall	4	1	4	Dauphin
American Black Duck	6	3	3	Lancaster
Mallard	2293	36	219	Franklin
Blue-winged Teal	16	6	9	Centre
Northern Shoveler	1	1	1	Schuylkill
Green-winged Teal	6	2	5	Berks
Canvasback	1	1	1	Bucks
Redhead	1	1	1	Luzerne
Ring-necked Duck	15	5	5	Wyoming
Greater Scaup	4	3	2	Lancaster
Bufflehead	6	3	4	Centre
Hooded Merganser	68	14	14	Dauphin
Common Merganser	144	18	49	Bucks
Ruddy Duck	25	8	13	Indiana
Ring-necked Pheasant	48	17	7	Bedford
Ruffed Grouse	38	14	10	Schuylkill
Wild Turkey	406	32	46	Indiana
Northern Bobwhite	10	3	4	Clearfield
Common Loon	71	16	14	1
Pied-billed Grebe	17	10	7	Bucks
Horned Grebe	4	3	2	York
Double-crested Cormorant	766	23	271	Lancaster
Great Cormorant	33	2	31	Chester
American Bittern	3	2	2	Chester
Great Blue Heron	493	35	81	Lancaster
Great Egret	33	13	7	Lancaster
Snowy Egret	1	1	1	Bedford
Little Blue Heron	2	2	1	2
Green Heron	110	26	19	Cumberland
Black-crowned Night-heron	56	5	23	Cumberland
Yellow-crowned Night-heron	2	1	2	Cumberland
Glossy Ibis	3	3	1	3
Black Vulture	465	21	229	Lancaster
Turkey Vulture	2225	38	246	Franklin
Osprey	113	23	17	Bucks
Bald Eagle	146	26	49	Lancaster
Northern Harrier	14	9	3	Wyoming
Sharp-shinned Hawk	56	24	7	Berks
Cooper's Hawk	75	25	11	Lancaster
Northern Goshawk	1	1	1	Bradford
Red-shouldered Hawk	41	15	8	Schuylkill
Broad-winged Hawk	59	19	13	Westmoreland
Red-tailed Hawk	548	37	55	Franklin
American Kestrel	156	27	17	Franklin
Merlin	2	2	1	4
Peregrine Falcon	22	6	7	Bucks
Virginia Rail	16	4	7	Bucks
Sora	13	7	3	5
American Coot	7	6	2	Bedford
Sandhill Crane	7	2	4	Sullivan
Black-bellied Plover	1	1	1	Lancaster
Semipalmated Plover	11	4	6	Bedford
Killdeer	542	37	62	Franklin
Greater Yellowlegs	57	11	14	Centre
Lesser Yellowlegs	129	18	20	Bedford

	Totals	Number of Counts	High	High Count
Solitary Sandpiper	244	30	33	Bucks
Spotted Sandpiper	491	33	162	Juniata
Semipalmated Sandpiper	8	4	4	Bedford
Least Sandpiper	613	17	211	Chester
White-rumped Sandpiper	2	2	1	6
Pectoral Sandpiper	5	4	2	Lancaster
Wilson's Snipe	17	8	4	Bedford
American Woodcock	48	17	8	Indiana
Wilson's Phalarope	1	1	1	Allegheny
Laughing Gull	1561	2	1534	Bucks
Bonaparte's Gull	99	9	58	Lancaster
Ring-billed Gull	1568	22	1065	Lancaster
Herring Gull	101	7	46	Bedford
Great Black-backed Gull	10	3	5	Bucks
Caspian Tern	9	5	3	Lebanon
Common Tern	103	4	58	Lancaster
Forster's Tern	38	9	11	Lancaster
Black Tern	8	3	6	Lancaster
Rock Pigeon	1748	34	278	Juniata
Eurasian Collared-dove	4	1	4	Franklin
Mourning Dove	3087	39	415	Franklin
Black-billed Cuckoo	20	13	3	Juniata
Yellow-billed Cuckoo	64	20	14	Franklin
Barn Owl	2	2	1	7
Eastern Screech-owl	68	12	23	Bucks
Great Horned Owl	24	11	4	8
Barred Owl	27	13	4	9
Common Nighthawk	11	7	3	10
Whip-poor-will	60	10	16	Cumberland
Chimney Swift	1874	33	390	Berks
Ruby-throated Hummingbird	255	30	44	Bedford
Belted Kingfisher	140	31	16	Schuylkill
Red-headed Woodpecker	36	13	12	Franklin
Red-bellied Woodpecker	1012	38	138	Bucks
Yellow-bellied Sapsucker	21	10	5	11
Downy Woodpecker	575	35	53	Franklin
Hairy Woodpecker	187	35	21	Bucks
Northern Flicker	745	38	76	Bucks
Pileated Woodpecker	208	32	22	Franklin
Olive-sided Flycatcher	2	2	1	12
Eastern Wood-pewee	323	25	44	Lancaster
Yellow-bellied Flycatcher	1	1	1	York
Acadian Flycatcher	138	20	24	Lancaster
Alder Flycatcher	5	4	2	Schuylkill
Willow Flycatcher	59	17	11	Bucks
Least Flycatcher	73	15	29	Wayne
Eastern Phoebe	635	35	56	Juniata
Great Crested Flycatcher	494	32	70	Juniata
Eastern Kingbird	630	36	80	Bucks
White-eyed Vireo	162	18	30	Lancaster
Blue-headed Vireo	150	29	20	Centre
Yellow-throated Vireo	112	21	16	Wyoming
Warbling Vireo	461	30	86	Bucks
Philadelphia Vireo	9	3	7	Juniata
Red-eyed Vireo	3082	37	469	Franklin
Blue Jay	3055	39	260	Juniata
American Crow	4630	40	398	Indiana
Fish Crow	307	18	63	Cumberland
Common Raven	117	26	18	Juniata
Horned Lark	92	12	35	Franklin

	Totals	Number of Counts	High	High Count
Purple Martin	1067	19	249	Lancaster
Tree Swallow	4651	38	423	Bucks
Northern Rough-winged Swallow	1487	34	328	Indiana
Bank Swallow	416	20	215	Bucks
Cliff Swallow	473	20	112	Clinton
Barn Swallow	5100	38	750	Indiana
Carolina Chickadee	517	15	123	Bucks
Black-capped Chickadee	677	31	99	Indiana
Tufted Titmouse	1594	38	186	Juniata
Red-breasted Nuthatch	13	9	3	Schuylkill
White-breasted Nuthatch	333	35	37	Indiana
Brown Creeper	18	9	4	13
Carolina Wren	776	32	116	Bucks
House Wren	961	37	110	Bucks
Winter Wren	12	7	5	Westmoreland
Marsh Wren	10	2	9	Philadelphia
Golden-crowned Kinglet	14	7	4	Schuylkill
Ruby-crowned Kinglet	36	12	10	Schuylkill
Blue-gray Gnatcatcher	740	30	120	Bucks
Eastern Bluebird	1464	38	277	Franklin
Veery	203	25	37	Bucks
Gray-cheeked Thrush	6	4	3	Bucks
Swainson's Thrush	38	12	11	Bucks
Hermit Thrush	44	15	10	Franklin
Wood Thrush	1671	38	199	Lancaster
American Robin	13776	40	1431	Franklin
Gray Catbird	4837	38	591	Bucks
Northern Mockingbird	736	30	137	Franklin
Brown Thrasher	373	33	74	Franklin
European Starling	9215	37	1276	Franklin
American Pipit	128	5	83	Juniata
Cedar Waxwing	711	26	287	Juniata
Blue-winged Warbler	232	23	35	Schuylkill
Golden-winged Warbler	16	8	7	Centre
Tennessee Warbler	18	8	7	Indiana
Orange-crowned Warbler	1	1	1	Juniata
Nashville Warbler	38	17	9	14
Northern Parula	328	29	62	Bucks
Yellow Warbler	2074	37	253	Bucks
Chestnut-sided Warbler	309	33	42	Schuylkill
Magnolia Warbler	121	26	15	Westmoreland
Cape May Warbler	15	6	5	Schuylkill
Black-throated Blue Warbler	232	29	39	Schuylkill
Yellow-rumped Warbler	666	35	119	Bucks
Black-throated Green Warbler	488	31	107	Schuylkill
Blackburnian Warbler	168	23	44	Perry
Yellow-throated Warbler	22	9	5	15
Pine Warbler	42	13	9	Franklin
Prairie Warbler	185	24	36	Bucks
Palm Warbler	11	8	3	Schuylkill
Bay-breasted Warbler	17	8	6	Schuylkill
Blackpoll Warbler	269	21	65	Philadelphia
Cerulean Warbler	91	18	14	Greene
Black-and-white Warbler	402	31	93	Schuylkill
American Redstart	1020	37	121	Juniata
Prothonotary Warbler	12	3	10	Lancaster
Worm-eating Warbler	139	23	34	Schuylkill
Ovenbird	1991	35	285	Schuylkill
Northern Waterthrush	117	22	21	Bucks
Louisiana Waterthrush	211	26	31	Juniata
Kentucky Warbler	28	9	11	Indiana
Mourning Warbler	2	2	1	16
Common Yellowthroat	2162	38	231	Bucks

	Totals	Number of Counts	High	High Count
Hooded Warbler	410	28	57	Cumberland
Wilson's Warbler	21	11	4	Bucks
Canada Warbler	49	18	11	Centre
Yellow-breasted Chat	73	17	15	Lancaster
Scarlet Tanager	986	37	94	Indiana
Eastern Towhee	2047	39	223	Indiana
American Tree Sparrow	15	3	12	Bedford
Chipping Sparrow	2404	39	315	Indiana
Clay-colored Sparrow	1	1	1	Northampton
Field Sparrow	583	36	53	17
Vesper Sparrow	22	7	8	Cumberland
Savannah Sparrow	124	22	23	Bucks
Grasshopper Sparrow	85	15	21	Cumberland
Henslow's Sparrow	1	1	1	Indiana
Song Sparrow	2509	40	257	Juniata
Lincoln's Sparrow	10	8	2	18
Swamp Sparrow	106	22	27	Centre
White-throated Sparrow	182	31	28	Franklin
White-crowned Sparrow	132	26	21	Bedford
Dark-eyed Junco	87	15	13	Bradford
Northern Cardinal	3246	40	322	Franklin
Rose-breasted Grosbeak	508	33	65	Westmoreland
Blue Grosbeak	40	4	29	Bedford
Indigo Bunting	1214	35	158	Schuylkill
Bobolink	558	27	82	Wyoming
Red-winged Blackbird	8122	38	762	Indiana
Eastern Meadowlark	324	31	43	Franklin
Rusty Blackbird	34	5	20	Bedford
Common Grackle	7738	40	1212	Juniata
Brown-headed Cowbird	1960	37	273	Bucks
Orchard Oriole	289	28	41	Philadelphia
Baltimore Oriole	2666	38	374	Juniata
Purple Finch	152	19	33	Bedford
House Finch	1101	35	184	Franklin
American Goldfinch	2934	38	352	Franklin
House Sparrow	3145	35	427	Westmoreland
Accipiter Sp.	1	1	1	Dauphin
Buteo Sp.	2	2	1	19
Peep Sp.	12	3	6	Clinton
Empid. Sp.	3	3	1	20
Crow Sp.	87	5	39	Lancaster
Swallow Sp.	7	2	6	Centre
Chickadee Sp.	219	12	48	Berks
Brewster's Warbler	6	5	2	Juniata
Lawrence's Warbler	2	2	1	21
Total Species	153966	40	162	Lancaster
Total Sp.	339	9		
Total Individuals	153429	40	13072	Franklin
Hours/observer			18	Centre
Birds/hour			239	Montgomery
Total Participants:	682	40	67	Franklin
How Many Went Owling?	71	21	9	Juniata
Hours: Daytime Field Birding	2248	40	215	Franklin
Hours: Nocturnal Owling	68.3	21	8	Juniata
Total Party Hours:	2332.3	40	221	Franklin
Miles on Foot	817.55	40	85.95	Bucks
Miles by Car, Bike, Boat, Etc.	7436.1	37	756	Franklin
Total Miles Traveled:	8253.65	40	784	Franklin

Codes for Multiple Counts in High Column

- 1 - Berks, Lancaster
 - 2 - Bradford, Chester
 - 3 - Bucks, Huntingdon, Lancaster, Lebanon
 - 4 - Cumberland, Lancaster
 - 5 - Bucks, Lebanon
 - 6 - Lancaster, Northampton
 - 7 - Centre, Lebanon
 - 8 - Berks, Franklin
 - 9 - Cumberland, Greene
 - 10 - Bucks, Chester
 - 11 - Wayne, Wyoming
 - 12 - Greene, Lehigh
 - 13 - Huntingdon, Schuylkill
 - 14 - Centre, Westmoreland
 - 15 - Greene, Lancaster
 - 16 - Juniata, Perry
 - 17 - Franklin, Schuylkill
 - 18 - Lancaster, Westmoreland
 - 19 - Bradford, Dauphin
 - 20 - Clearfield, Lebanon, Westmoreland
 - 21 - Franklin, Juniata
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