

Observations from the 2004 Pennsylvania Migration Count (PAMC)

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PAMC? What is PAMC?

Before I begin the summary of this year's count, allow me to clear up a minor point of confusion. Pennsylvania's annual spring bird count has many names. Some call it the North American Migration Count, the Spring Count, or simply The Migration Count. Some spell out the acronym, "N-A-M-C". Others pronounce it, "NAH-mac", or "NAY-mac". In past years, it's been referred to as the May Count. Call it what you will, but for the purpose of this article, I will refer to it as the Pennsylvania Migration Count, or PAMC.

2004 marked our 13th consecutive count! The first count occurred in 1992, and was part of a continent-wide effort to obtain an annual "snapshot" of migration. As most are aware, this effort was known as the North American Migration Count (NAMC). Sadly, it seems that the NAMC has fallen apart in nearly all areas, with the highly notable exception of Pennsylvania! As far as I'm aware, there is currently no national coordinator for the NAMC. Efforts are still made in several states and provinces, but data is currently maintained at the local level only (where most might agree that it is of the greatest value)! In recent years, the total number of participants in Pennsylvania alone has been several times greater than that of all other areas combined. Pennsylvania's birders are a dedicated bunch, to say the least, so why not call our yearly bird count the Pennsylvania Migration Count!?! Anyway, on with details of the 2004 PAMC...

Overview

The count continued to grow this year! On Saturday, May 8th, 1,078 observers in 63 counties contributed data. Both stats are new benchmarks for the count! Total field hours were slightly short of the 2003 tally, with 3,417 hours, compared to last year's 3,456. The total number of birds found was 253,213, and birds of 238 species were recorded this year.

The fact that the 2004 PAMC fell on the earliest possible day (May 8th...it

can occur as late as the 15th) may have resulted in lower than hoped for totals in terms of total birds, as well as total species. To be sure, many late-spring migrants such as certain *Catharus* thrushes and *Empidonax* flycatchers were not back in the state yet, at least not in decent numbers. On the other hand, several participants felt that above average numbers of passerines may have already moved through the region, making an earlier than usual passage in tandem with this year's optimal late April migratory conditions. Conditions over the week immediately prior to the count generally produced few new birds, according to several reports.

Weather

As count day approached, weather predictions were all over the place. The days leading up to the count brought scattered showers and variable winds to many parts of the state. By midweek, forecasters were predicting a probable washout for Saturday, but an organized frontal system was slow to arrive. By Friday, it seemed that while count day would not be perfect, most of the state would be spared the washout that we had feared, and indeed, which many had experienced in 2003. Friday night through Saturday morning was fairly cool for the season, but certainly not conducive to migration. Weather on Saturday depended on where you were in the state, but overall conditions were quite birder-friendly.

In Westmoreland, Dick Byers noted "much better weather this year. A cool morning (37° F) with fog, but it warmed to the 80s in the western end of the county...the morning was cloudless until about 1 PM. It threatened rain for a while, but cleared up around 4 PM". In Lancaster, Bruce Carl experienced similar conditions, with "clouds arriving by 11:30am and clearing out by about 4pm; wind calm most of the day". The low temperature there was 37° F at daybreak, with highs in the mid 70s. Up in Erie, the weather was a bit less favorable by late day. Ben Coulter reported having been "caught in a truly brutal thunderstorm in the evening

while out on the bicycle. Got thoroughly soaked, and saw many lightning strikes." His totals suffered as the weather "completely destroyed my chances of getting American Woodcock and Whip-poor-will displaying that evening. I also missed the enormous roosting swarm of swallows at Niagara Pond". Other areas reported brief local showers late in the day, but nothing so extreme as in Erie, thankfully!

Participation

Total field hours for 2004 were slightly off last year's high mark; surprising given this year's much improved weather! Oh well. The total number of participants, however, continued to grow. Data was submitted from all counties but Cameron, Elk, Sullivan, and Warren. Naturally, many remote counties had only one or two participants.

This year, Bucks and Allegheny were top dogs, respectively, in two categories: total field hours, and total participants. Nice! With Carol and Fred McCullough compiling, Allegheny nearly doubled their total field hours over last year (98 to 183)! The count in Blair was also notable. Over the past few years, there has been very little participation from Blair (pretty much just Marcia Bonta and family, actually). This year, Stan Kotala volunteered, and proceeded to organize twenty birders who contributed 119 field hours (a top ten effort...). Thanks Stan!

Table 1. Counties with the most field hours.

1	Bucks	200
2	Allegheny	183
3	Berks	174
4	Franklin	159
	Lancaster	159
5	Schuylkill	150
6	Westmoreland	135
	Indiana	128
7	Greene	128
8	Blair	119
9	Dauphin	100

Table 2. Counties with the most participants.

1	Bucks	79
2	Allegheny	76
3	Franklin	74
4	Indiana	66
5	Chester	53
6	Berks	44
	Lancaster	44
7	Westmoreland	41
8	Greene	37
9	Schuylkill	35
10	Bedford	34

Species encountered

PAMC '04 yielded new High Counts for 50 species, and produced one species totally new to the count (American White Pelican, Erie). While not a true species, an 'Oregon' Junco in Wyoming was also a PAMC first. Among the more notable High Counts were Mute Swan, Red-breasted Merganser, American Bittern, Little Blue Heron, Red-tailed Hawk, both vultures, Bald Eagle, Northern Harrier, Cooper's Hawk, Virginia Rail, Sandhill Crane, both yellowlegs, Solitary Sandpiper, Wilson's Snipe, Bonaparte's Gull, Fish Crow, Purple Martin, Hooded Warbler, American Tree Sparrow, White-crowned Sparrow, and American Goldfinch.

Compared to last year, there was little change in the top twenty species. Last year's #1 species, Laughing Gull, was an anomaly, thanks to over 30,000 in Bucks (there were only 414 statewide this year). American Robin slipped into the top "most abundant" slot this year. While the order shifted around a bit, only Ring-billed Gull, Chipping Sparrow, and Wood Thrush were new to the top twenty species compared to last year's list.

Table 3. Most abundant species.

American Robin	15375
European Starling	13547
Red-winged Blackbird	13249
Canada Goose	12547
Common Grackle	11046
Gray Catbird	7868
American Goldfinch	7792
Tree Swallow	7576
Barn Swallow	6206
Blue Jay	6097
American Crow	5967
House Sparrow	5472
Northern Cardinal	5391
Mourning Dove	4925
Common Yellowthroat	4505

Song Sparrow	4440
Ring-billed Gull	4285
Chipping Sparrow	4217
Ovenbird	4193
Wood Thrush	4167

Count highlights

And now, a closer look at some of the highlights from Pennsylvania's 13th annual Migration Count:

Geese through ducks

There was a new High Count for Snow Goose this year: 187, thanks to 134 that lingered at Middle Creek in Lebanon. A dubious new High Count (HC) was Mute Swan. 102 were recorded in 19 counties, with 40 in Bucks alone. This introduced species remains federally protected, unabated in its breeding and dispersal. Nineteen species of ducks were found. Highlights included a new HC of 1,129 Wood Ducks, 34 Lesser Scaup (25 in Erie), and 27 Bufflehead in 8 counties. Scoters were well represented with Surf and White-winged in two counties each. Erie had 4 Surf and 1 White-winged. In Lycoming, Wes Egli and Dave Shollenberger also reported a lone White-winged. Indiana had a Surf Scoter (Mike and Evelyn Fowles) that showed up the day before the count and remained through at least early June. There were new HCs for Common Merganser and Red-breasted Merganser. Red-breasted Mergs were noted in 19 counties, and the total was nearly four times greater than the previous high, thanks in part to 172 birds in Erie.

Fowl through waders

Ring-necked Pheasants were reported from 35 counties, but only 116 birds were noted. The number of un-released birds is a mystery. Northern Bobwhites were found in only three counties (Lebanon 5, Bedford 2, and Greene, 1). As with our pheasants, the status of truly wild populations of this species is shrouded in mystery.

Holly Hartshorne found our only Red-throated Loon at Hopewell Lake, Berks. Seventy Common Loons were noted in 28 counties. Our count's first American White Pelican was found and photographed by Ben Coulter in Erie. Ben found this excellent and unmistakable bird at the head of Presque Isle Bay, between the previously mentioned thunderstorms!

Among the waders, a definite highlight was 19 American Bitterns in 7 counties, by far a new HC. In Bucks, Cameron Rutt reported five AMBI flying out of Quakertown Swamp at dusk. He had found two others in the southern part of the county earlier in the day! Little Blue Heron was found in Bedford (2), Bucks (again, by Cameron Rutt, who definitely had a very good day...) and Columbia. Another remarkable sighting was two Glossy Ibis seen by Ted Drozdowski at Embreeville County Park, Chester.

Vultures, Raptors

Both vulture species were found in unprecedented numbers. There were 331 Black Vultures, including 120 in Lancaster and 44 in Franklin. Turkey Vultures were recorded in 61 counties (3,119 total).

We had great luck with raptors this year, with all fifteen of the most likely species found! HCs were equaled or surpassed for nine different species. Perhaps most impressive was our Bald Eagle total. Bald Eagle numbers continue to rise as the species continues its much-welcomed recovery here in Pennsylvania! This year, 101 eagles were seen in 33 counties, including 17 in Lancaster, and 8 each in Bucks and Crawford.

Mississippi Kite was noted on the count for just the second time. Rudy Keller found one adult bird near Boyertown, Berks. There were a few other rare PAMC raptor sightings this year as well. In Franklin, Bill Oyler reported a light-phase Rough-legged Hawk, a probable straggler from the species' irruption into PA the previous winter. This was only the third record in PAMC history. A Golden Eagle observed in Mercer by Randy Stringer was another third PAMC record. Randy noted that the adult bird was headed north.

The previous HC for Northern Harrier (40 in '03) was nearly doubled, with 74 reported this year! Single Northern Goshawks were reported from Bucks and Perry. The new HC for Red-tailed Hawk is 1,137, over 200 more than the previous ('02) high! American Kestrels were down slightly from last year. 254 were reported; the average for the count since 1997 is 242 kestrels per year. Sixteen Peregrine Falcons were found in ten counties, a new high distribution. At least half the birds were

nesting pairs. The cliff nesters eluded counters in Lycoming, but, fortunately, were picked up by Deuane Hoffman and Tom Johnson across the river in Northumberland!

Rails and shorebirds

Thanks to concerted efforts by many birders across the state, new HCs were obtained for both Virginia Rail and Sora. 51 Virginia Rails were found in 18 counties, and 58 Sora were noted in 20. King Rail was recorded for only the second time in count history! Butch Lishman and myself heard a staked-out King Rail calling in Bucks. This, the first bird of our "day", occurred just moments after midnight. While they are probably very rare but regular spring visitors at various locations within the state, the only other PAMC record of this elusive bird was one in Lancaster in 1996.

Sandhill Cranes were found yet again in Lawrence. Four birds were noted, but it is believed that more went undetected. Lawrence compiler Linda Wagner reported, "the four Sandhills were seen in Plain Grove, by Barb and George Dean. Oddly, they were a family group (even at that early date), two adults and two very small young!" Sandhills have been found on the count in this area for the past four years.

Seventeen shorebird species were found. Notable among the six new HCs were Lesser Yellowlegs (285), Solitary Sandpiper (482), and Wilson's Snipe (71). Willets were found in two counties. In Susquehanna, Randi Anderson observed 2 Willets at Stillwater Dam, Forest City. Russ States found a single bird at Kahle Lake in Venango, where 17 birds had been present the previous evening! Upland Sandpiper (3) was found in Venango only this year. Gulls and terns

Numbers in this category were generally low, with the exception of Bonaparte's Gull (171 in 11 counties). There were only 477 Laughing Gulls this year, compared to last year's phenomenal total when they accounted for a full 12% of all birds seen on the entire count. Most were noted in Bucks again this year, with 61 in Philadelphia and one each in Delaware and Erie. Lesser Black-backed Gull was most likely present, but missed along the Delaware River in the southeastern counties. Only two Common Terns were reported, far below the 12-year count average of 30.

Doves through nightjars

Eurasian Collared-dove was missed this year following reports from York and Franklin the past two years. Our Barn Owl total was the lowest since 1994, with only eight found in four counties! It is unknown what kind of effort was made to find this species this year, but PAMC totals seem to indicate that Barn Owls are increasingly hard to find within the state. Records this year came from Bucks (1), Cumberland (2), Juniata (2) and Lebanon (3).

Table 4. Occurrence of Barn Owl on the PAMC since 1994.

Year	Total	Counties
2004	8	4
2003	10	4
2002	15	3
2001	23	4
2000	16	3
1998	13	6
1997	9	4
1996	12	2
1995	8	2
1994	6	2

Statewide, we put in 80 hours nocturnally, a slight improvement over last year, but still decidedly low. Our only new HC was Barred Owl, with 86 in 29 counties. Barred Owl reports have increased steadily since 1998, but this is the first year they out-numbered Great Horned Owls! 82 GHOWs were found in 30 counties, slightly off the HC of 90 set in 2002 and 2003. This PAMC trend is at least interesting, if not significant.

Swifts through swallows

Most notable among our three new woodpecker HCs was Red-bellied (1,896). Pileated Woodpecker and Yellow-bellied Sapsucker were also found in record high numbers.

As mentioned, empids, as well as pewee, were found in lower than average numbers, due to the early date of the count. Loggerhead Shrike was missed completely this time around, casting further doubt upon the status of the species here.

Fish Crow was seen in record numbers. Two birds in Allegheny were indicative of this species' range expansion across the state.

Purple Martins were seen in more counties last year (1,166 in 30), but in greater numbers this year (1,559 in just

25)! This is a new PAMC HC.

Chickadees through waxwings

Last year's report noted an apparent die-off of Carolina Wrens over the harsh winter of 2002-2003. The number of CAWRs on the 2003 count was down 45% from 2002 totals. I'm pleased to note that they seem to have bounced back significantly: 988 were reported from 53 counties, a 19% increase over last year.

Eastern Bluebirds may have suffered a fate similar to that of Carolina Wren over winter 2002-03. Numbers last year were down approximately 40% compared to 2002 totals. Like the wrens, they seem to be on the rebound, but at a slower pace, at least according to PAMC data. This year's bluebird total was up just 6%, with 1,464 birds reported.

Thrush numbers were generally quite low - again, they probably hadn't arrived yet due to the early date of the count. On the other hand, Blue-gray Gnatcatchers were definitely back, and in record numbers: 1,444 bird seen in 55 counties. Cedar Waxwings were largely missing nearly everywhere on count day. Only 525 were reported in PA; this nomadic species was only seen in single to low double digits in most counties.

Warblers

Judging by comments received, it seems that many participants were disappointed by the lack of warblers this year. There were new HCs for just five species: Northern Parula, Pine, Cerulean, Louisiana Waterthrush, and Hooded. Of the 35 most expected warbler species, however, 22 were recorded in numbers above their 5-year averages. Compared to 5-year averages, the most under-reported warblers for 2004 were Blackpoll, Bay-breasted, Canada and Magnolia. The late-migrating Blackpoll was seen at just 56% of it's 5-year average, with only 62 birds reported.

There were a few good sightings among our 38 warbler species. Both of the count's Orange-crowned Warblers came from Westmoreland! Alert birder Tony Pegnato first heard, then finally tracked down his life Orange-crowned Warbler in a wet shrubby area. The bird was well described, and never would have been found had it not been heard first. The second Westmoreland OCWA was pulled from the banding nets at the Powdermill Nature Preserve. In

Lebanon, Susan Wheeler reported our only Swainson's Warbler. Swainson's Warbler has now been observed in this same area for two years in a row. Unfortunately, the bird was not refound after count day.

Tanagers through sparrows

Two Summer Tanagers were found on this year's PAMC. A third bird was reported from Centre, but was not included in our totals, as the finder was not actually participating in the count. In Bucks, Chuck Crunkleton and Elaine Ryan observed and described an adult female SUTA at Peace Valley Park. In Greene, Benjy Strobe found a SUTA on the 7th in Morgan Township, which stuck around for count day!

Eight Blue Grosbeaks were found in six counties, including one in Luzerne. Our only Dickcissel happened in Bedford. In Indiana, Marcy Cunkelman's 33 Henslow's Sparrows accounted for a significant portion of the state total. She heard the birds calling nocturnally at West Lebanon, a reclaimed strip mine. Or, more specifically, a re-re-re-claimed strip mine; Marcy grew up here and has seen the area seeded, cultivated and stripped several times over the years. Conditions were obviously ideal for Henslow's Sparrows this year! A great report!

Following what was generally held to be a good winter for White-crowned Sparrows, a huge new HC was set for the species. 1,332 WCSP were reported this year, distributed across 54 counties. This nearly doubles the previous best count. In Wyoming, Bill Reid found an "Oregon" sub-species Dark-eyed Junco. Bill reported: "A pleasant surprise! The head was a black hood. There was a very obvious line of demarcation between the black and the reddish-brown of the back. I have seen Oregon juncos in PA a couple times before...they always impress me as being so different from dark-eyed birds that you would think they were a different species." Nice find, and a PAMC first!

Blackbirds through finches

There were three new HCs here: Red-winged Blackbird, Orchard Oriole and American Goldfinch. Seven of the thirteen species in this category were found in 60 or more counties, including House Sparrow.

"It is strange, is it not, that the bird we all detest is the one who insists on sharing our homes with us. The House Sparrow...a remarkably keen-witted bird, who, like a noxious weed thrives and increases where a less hardy species could not."

-Frank M. Chapman, Bird Life, 1897.

In his account of the species, Mr. Chapman further portends that this "harsh-voiced" little urchin "being productive past all belief, seems likely to completely overrun the land." He sure got that one right! Brown-headed Cowbird was also noted in 60 counties this year. A dubious bunch!

On a more positive note, following last year's total absence from the count, 104 Pine Siskins were found in 24 counties this year. Only one Evening Grosbeak was reported, from Greene. Anna Blystone watched the bird perched atop her shed in Franklin Township. She noted that it was the only Evening Grosbeak she'd seen all year. Seems that this past winter was, indeed, quite poor for the species throughout the state.

Summary

Many thanks to all who helped out with the count this year! The accumulated data is certainly of value! Please note that the 2005 PAMC will take place on Saturday, 15 May. PAMC 2005 will occur on the latest possible date, hopefully at the peak of migration...please save the date!

Appendix. List of coordinators.

Following is a list of coordinators and certain key participants, with contact info, listed by county:

PAMC state coordinator:

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County Coordinators

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NORTH AMERICAN MIGRATION COUNT- MAY 8, 2004

	ADAM	ALLE	ARMS	BEAV	BEDF	BERK	BLAI	BRAD	BUCK	BUTL	CAMB	CARB	CENT	CHES	CLAR	CLEA	CLIN	COLU	CRAW	CUMB	DAUP
Yellow-crowned Night-Heron									1											1	1
Glossy Ibis*														2							
Black Vulture	10				1	17	1		25				4	24						4	4
Turkey Vulture	20	59		4	34	91	27	49	186	7	46	1	28	129	33	5	8	21	17	112	77
Osprey		1			3	6	3	8	18	14	4		5	5			1		1	1	3
Mississippi Kite*						1															
Bald Eagle					1	2		2	8	4			4	1			2	1	8		2
Northern Harrier		1			2	1		2	2	1			2	2	3		2			2	
Sharp-shinned Hawk	1	3			3	3	9	3	3		2		2	4	1	1	1			5	2
Cooper's Hawk		6			2	5	4	2	13	2	1		2	4	1	1	1			8	2
Northern Goshawk									1												
Accipiter sp.													1								1
Red-shouldered Hawk	2	3			6	4	2		1	2				2							
Broad-winged Hawk	1	6			2	6	14	1	3	2	1		3	1	1	2	1			3	1
Red-tailed Hawk	12	69	7	4	3	46	19	10	70	16	5		16	41	12		3	5	13	39	38
Rough-legged Hawk																					
Buteo sp.		1											1								
Golden Eagle																					
American Kestrel	2	1			8	8	8	4	12	5	1		2	3	4		1	8	3	11	8
Merlin									1												
Peregrine Falcon		2						1	2												2
King Rail*									1												
Virginia Rail		2				3	3		3		4			4			3				
Sora	1	1			2	5	1				3			6			2		3		
Common Moorhen																			1		
American Coot	2					12				2										1	
Sandhill Crane																					
Black-bellied Plover																					
Semipalmated Plover																					
Killdeer	2	34		1	1	17	19	8	1	18	6		4	7	10	4	2	5	7	65	10
Greater Yellowlegs	1	9			3	1			10	3			4	33			3	1	6	5	6
Lesser Yellowlegs	2	6			6	5			7	2			17	24	5				7	43	5
Solitary Sandpiper	17	18			1	18			27	7	2		11	39	1		1		2	19	16
Willet																					
Spotted Sandpiper	8	13	1	5	4	19	11	14	46	3	6		7	24	1	1		1	1	28	6
Upland Sandpiper																					
Semipalmated Sandpiper					12																
Least Sandpiper		4			4	26			74	6			1	329	1			1	1	7	12
White-rumped Sandpiper					6								2								

NORTH AMERICAN MIGRATION COUNT- MAY 8, 2004

	ADAM	ALLE	ARMS	BEAV	BEDF	BERK	BLAI	BRAD	BUCK	BUTL	CAMB	CARB	CENT	CHES	CLAR	CLEA	CLIN	COLU	CRAW	CUMB	DAUP
Pectoral Sandpiper					1	14			1					3						6	1
Dunlin																				1	
Short-billed Dowitcher					3	1			2		1		1	1						2	
Wilson's Snipe						1	12	2						1	2						
American Woodcock	3	2								3				1							1
Laughing Gull*								414													
Bonaparte's Gull					1	16		47		2			1							7	
Ring-billed Gull		26			40	36		229		51	13	281	156				25	350		151	38
Herring Gull		48						445		1		3	8								
Great Black-backed Gull						2		35													
gull sp.		13																			
Caspian Tern		4								9											
Common Tern		1																			
Forster's Tern		11			16															2	
Black Tern																				1	
tern sp.																					2
Rock Pigeon	5	150			8	143	98	21	64	100	1	109	62	9	7	54		2		186	100
Mourning Dove	46	135	14	4	102	202	39	45	268	95	98	11	153	26	25	28	17	8		243	128
Black-billed Cuckoo		26			1	6	2		5	2			4							3	4
Yellow-billed Cuckoo		12		2	1	9			7				1				1			1	7
Barn Owl									1											2	
Eastern Screech-Owl		1			3	5	6		13				12	1	1	1				4	
Great Horned Owl		2			3	6	4		7		1		3	3		1				5	2
Barred Owl							3	2	1	1			1					1		2	1
Northern Saw-whet Owl																					
Common Nighthawk		4					8		2				2								3
Whip-poor-will	4				4		4		1											9	11
Chimney Swift	6	248	6	2	10	52	107	9	193	45	13	38	169	37	9	20		12	116	49	
Ruby-throated Hummingbird	11	13	13		40	22	14	1	17	8	12	6	19	5	6	6	1		22	15	
Belted Kingfisher	2	8			9	14	18	8	11	2	1	5	7			2			6	7	
Red-headed Woodpecker	8					1				3											
Red-bellied Woodpecker	31	163	7	4	25	106	21	17	184	29	3	23	87	5	3	3	1	6	86	48	
Yellow-bellied Sapsucker								9	1	5			1								5
Dowry Woodpecker	14	55	2	2	25	45	26	12	77	35	8	19	31	8	7	8	3	6	28	23	
Hairy Woodpecker	4	13			13	9	11	4	11	19	3	8	7	4	3	1			1	8	
Northern Flicker	16	93	7	4	25	27	19	17	88	28	6	21	59	13	2	6	2	5	49	32	
Pileated Woodpecker	3	28		1	23	13	12	6	3	1	1	8	4	3	2	3	1	4	9	7	
Olive-sided Flycatcher									1												
Eastern Wood-Pewee	5	4			9	6	5		4			3	6			1	2		6	4	

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	ADAM	ALLE	ARMS	BEAV	BEDF	BERK	BLAI	BRAD	BUCK	BUTL	CAMB	CARB	CENT	CHES	CLAR	CLEA	CLIN	COLU	CRAW	CUMB	DAUP	
Yellow-bellied Flycatcher																						
Acadian Flycatcher	4	8		3	2	1	6							9						4		
Alder Flycatcher							2															2
Willow Flycatcher	2	1					1				1			2								6
Least Flycatcher		8				9	3	2	4	4	3	1	6			1						
empid sp.					1	1			10				3	2								
Eastern Phoebe	10	42		4	12	49	16	14	49	12	3		28	17	9	5	7	1	3	38	32	
Great Crested Flycatcher	14	8		2	6	35	16	7	55	4	1		13	18	1		2	2	9	53	20	
Eastern Kingbird	8	14			3	37	6	2	62	21	8		3	86	6			5	5	43	27	
White-eyed Vireo	8	23				22	2		27	8			1	32	1					2	11	
Blue-headed Vireo	1	12			2	5	2	5	10	2	10		15	1	1		7	2	2	6	1	
Yellow-throated Vireo		8		5	2	18	4	1	21	16			2	6	1				1	5	5	
Warbling Vireo	11	23			3	15	2	4	112	7		2	2	34	3				4	22	7	
Philadelphia Vireo		2							3													
Red-eyed Vireo	27	259	2	12	7	171	41	9	151	33	4	1	55	77	1	1	8	5	12	182	64	
vireo sp.		1												1								
Blue Jay	31	340	19	2	74	188	22	49	281	84	83	12	144	135	52	27	15	2	22	172	201	
American Crow	15	249	30	2	50	182	68	49	157	111	95	9	222	93	95	17	66	10	23	171	153	
Fish Crow		2			30	18	12		27				15	2			1			35	14	
crow sp.									16					5						3	5	
Common Raven	3	2		4	4		6	4					5				3			1	1	
Horned Lark		2			1	1					1			4			2			9	2	
Purple Martin	24				21	12			36	39			32	69			12		16	56		
Tree Swallow	28	88	25	8	49	226	109	222	638	108	197	21	133	509	79	12	23	17	60	115	221	
N. Rough-winged Swallow	7	73		4		51	14	8	147	18	16		6	33	1		5		8	42	19	
Bank Swallow	2	19		12	1	16	21	66	24	16	2		105	3					15	3	100	
Cliff Swallow						79			63	222	5		30				33		16			
Barn Swallow	66	128	18	4	40	204	82	64	286	113	81		171	209	74	4	22	3	50	208	56	
swallow sp*																						
Carolina Chickadee	12	43		3	3	26			95					56						41	15	
Black-capped Chickadee	6	42	9		16	18	88	58	21	14	36	3	65		32	25	7	2	25	20	11	
chickadee sp.		68				30			7											18	26	
Tufted Titmouse	15	200	14	5	34	88	111	13	128	29	7	3	61	89	19	6	3		9	117	90	
Red-breasted Nuthatch					3	1							1									
White-breasted Nuthatch	8	47	5	2	16	27	34	10	35	21	4	2	17	22	4	4	7	1	5	18	13	
Brown Creeper	2				3	2	3			1				1				1	1	2		
Carolina Wren	16	64		2	10	62	46	5	100	6		1	11	50	2	1	2		1	49	45	
House Wren	32	53	1		25	44	52	10	145	32	4	8	41	68	15	9	4	4	4	111	50	
Winter Wren						1	8										1					

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	ADAM	ALLE	ARMS	BEAV	BEDF	BERK	BLAI	BRAD	BUCK	BUTL	CAMB	CARB	CENT	CHES	CLAR	CLEA	CLIN	COLU	CRAW	CUMB	DAUP	
Marsh Wren						2				1					1						5	
Golden-crowned Kinglet	1	18			1	12	4	1	4				3	4			2	5	2		3	4
Ruby-crowned Kinglet	17	86		2	13	89	87	1	100	18	2	6	6	70			2	2	4		82	26
Blue-gray Gnatcatcher	17	42	9		35	60	93	5	59	14	6	33	33	41	8	4	5	7	8		92	49
Eastern Bluebird						42	7	2	32	3	1	1	1	37	1	1	2		1			6
Veery	3	5																				
Gray-cheeked Thrush												1				1						
Swainson's Thrush		4			1	1			6					1							1	
Hermit Thrush		1			8	8	2	1	2		9	3	3									
Wood Thrush	46	214	6	6	27	204	161	11	285	28	7	1	49	129	19	7	8	1	14	159		121
thrush sp.	1	2			10																	
American Robin	42	819	87	15	228	322	348	96	805	136	92	22	334	484	152	40	92	33	66	602		329
Gray Catbird	59	186	12	8	50	453	48	17	722	26	18	26	181	518	30	14	19	2	18	594		293
Northern Mockingbird	20	43	3		13	38	4	1	69	3	1	1	21	46	3		3	5	1	53		37
Brown Thrasher	6	21			17	14	9	4	10	10	4	3	14	16	6	2	2	2	1	25		16
European Starling	98	374	7	4	43	258	194	76	587	105	85	1	202	194	101	24	75	15	31	415		301
American Pipit													3	1					46			50
Cedar Waxwing	6	7			16	23	20		64	3			11	85	3					15		24
Blue-winged Warbler	3	39		4	1	20	1		37	15			5	13					2	7		37
Golden-winged Warbler		4			5		6						9				1					
Brewster's Warbler																						
Lawrence's Warbler																						
Tennessee Warbler		19				3	2		1					3								1
Orange-crowned Warbler																						2
Nashville Warbler	1	38			2	3	1	2	3	10	1		12	5	1				5	5		1
Northern Parula	3	5		4	2	26	8	1	91	2			4	40			3	2		20		5
Yellow Warbler	21	246	2	3	19	86	27	33	269	49	17	10	81	165	39	4	10	3	18	75		45
Chestnut-sided Warbler	4	28			10	34	4	8	17	11	4		33	20	16		5	1	3	9		11
Magnolia Warbler	3	14			4	19	8		24	4			5	13			4		4	12		4
Cape May Warbler		4							2				2	1	1							1
Black-throated Blue Warbler	6	32		2	2	59	6	1	77		1	1	19	25	2	1	5	2	1	26		16
Yellow-rumped Warbler	21	116		3	3	175	4	29	432	53	3	4	33	119	7	6	2	10	33	112		37
Black-throated Green Warbler	7	34		5	5	63		23	77	15	14		57	24	22	1	37	2	9	32		14
Blackburnian Warbler		11			2	2	12	1	5	9	2		5	2		1	10		2	9		1
Yellow-throated Warbler		9							8													
Pine Warbler		1			8	8						2	8	2	1				2	7		
Prairie Warbler	2	9			11	11	6	2	45			1	1	7	10				4	9		25
Palm Warbler		3			3	1		1												1		1
Bay-breasted Warbler	1	4			2	2									2					2		1

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	ADAM	ALLE	ARMS	BEAV	BEDF	BERK	BLAI	BRAD	BUCK	BUTL	CAMB	CARB	CENT	CHES	CLAR	CLEA	CLIN	COLU	CRAW	CUMB	DAUP
Blackpoll Warbler	1	2			2	4			13					9						3	1
Cerulean Warbler	8	12		7	2	19			3	11				2							
Black-and-white Warbler	13	18		2	64	8	1	84	8	8			17	26	10		5	1	3	13	15
American Redstart	1	31	2	3	65	42	3	78	15	5			13	31	7		3		6	43	39
Prothonotary Warbler					2				2												
Worm-eating Warbler	1	3		4	14	20			15				8	5				1		8	9
Swainson's Warbler*																					
Ovenbird	35	65		1	56	197	26	172	22	32	8	85	86	7	18	17		1	1	148	108
Northern Waterthrush	1	2			3		4	9	4			1	2						2	5	1
Louisiana Waterthrush	7	6		3	20	44		12	2			5	4	2		1		2	2	10	3
Kentucky Warbler	1	24			2			1	7					1						2	3
Mourning Warbler					1									1							1
Common Yellowthroat	27	63	2	6	168	106	22	319	42	15	15	126	188	49	7	29	1	8	117	131	15
Hooded Warbler	9	82		5	21	9		2	9			5	1	12		5		5	29	1	15
Wilson's Warbler	1	1			3			2				2	3								
Canada Warbler	1	1			2	3		1			1	2	3						1		
Yellow-breasted Chat		11		2	3	2			6			2	1							6	9
Summer Tanager*									1												
Scarlet Tanager	24	148	2	5	98	46	6	59	26	11		28	55	12	3	5		3	45	54	198
Northern Cardinal	39	452	12	7	210	109	25	260	50	27	9	138	171	20	19	22		2	38	257	9
Rose-breasted Grosbeak	1	77	10	3	32	43	27	34	41	25	1	31	11	20	22	11		1	17	9	9
Blue Grosbeak*									1												
Indigo Bunting	11	130	3	2	74	32	3	22	14	1		24	32	3	4	3		1	4	60	89
Dickcissel					1																
Eastern Towhee	23	251	3	8	89	51	7	132	29	23	7	121	97	32	16	29		3	8	124	113
American Tree Sparrow					14		8														
Chipping Sparrow	21	132	12	5	67	70	35	117	115	23	9	101	137	31	14	67		7	6	170	72
Clay-colored Sparrow		1																			
Field Sparrow	20	53	2		38	34	6	45	15	7	1	41	31	16	8	8		2	2	59	38
Vesper Sparrow		1				4			3			8							4	6	
Savannah Sparrow		3		2	1	12		17	6	9	3	3	7	5				1	4	4	8
Grasshopper Sparrow	3	8		1	2	2	3		2	3	8	8	1	11	2	2			4	4	8
Henslow's Sparrow		3							10					19	1					12	13
Fox Sparrow					1		2														
Song Sparrow	32	247	10	2	75	87	54	219	88	21	7	145	144	49	8	27		3	11	142	120
Lincoln's Sparrow					1				2										1		
Swamp Sparrow		2		6	4	17	2	15	18	4	1	14	9	7					9	1	
White-throated Sparrow	6	27		15	104	12	10	65	7	4	2	16	33	2		5			8	55	17
White-crowned Sparrow	7	38		43	7	4	27	4	23	2	1	48	2		8	27		2	28	33	27

NORTH AMERICAN MIGRATION COUNT- MAY 8, 2004

	ADAM	ALLE	ARMS	BEAV	BEDF	BERK	BLAI	BRAD	BUCK	BUTL	CAMB	CARB	CENT	CHES	CLAR	CLEA	CLIN	COLU	CRAW	CUMB	DAUP
Dark-eyed Junco					1			3	1		6		5	1	10		4	1			
Oregon Junco																					
Bobolink	17	5			1	11		9	50	10	1		37	73	19			1	18	7	25
Red-winged Blackbird	71	349	48	6	154	167	113	151	649	102	105	21	254	394	155	37	39	21	171	476	193
Eastern Meadowlark	9	13			25	3	37	6	3	32	5		13	28	25	4		3	13	20	13
Rusty Blackbird																			1		
Common Grackle	35	369	60	5	45	297	162	67	574	103	15	5	343	176	58	73	94	17	27	672	288
Brown-headed Cowbird	12	122			29	117	21	11	222	18		3	45	92	3	2	7	32	10	90	58
Orchard Oriole	3	43	4		4	6	6		33	9		5	5	28					1	6	6
Baltimore Oriole	19	262	12	6	40	133	74	47	235	36	6	6	108	119	13	4	11	1	13	129	118
Purple Finch		5	9		15	6	4	12	7	3	7				12	7	5		3	3	
House Finch	10	59	1	1	37	62	62	24	131	26	33	2	51	58	2	5	24	3	7	76	90
Pine Siskin					10			3			6		1		8	5	4				
American Goldfinch	44	332	23	6	135	218	130	104	300	53	110	10	342	164		69	90	19	23	271	169
Evening Grosbeak																					
House Sparrow	19	266	20	1	56	110	174	30	223	80	33	9	141	74	23	5	36	13	13	149	93
Total birds	108	9904	592	271	2915	8470	4249	2124	15135	3231	1681	281	5665	7982	1726	643	1376	434	1847	9088	6082
Total species	117	148	46	57	144	159	126	106	162	126	100	51	135	149	102	68	99	76	113	151	144
Total observers	7	76	6	1	34	44	20	22	79	13	10	4	17	53	6	5	8	2	2	23	30
Total Hours	30.5	182.75	39	4.5	79.25	174.5	119	57.66	200	24	46	7	49	87.6	15.75	26.5	27.75	5	16	97	100
Hours/observer	4.36	2.40	6.50	4.50	2.33	3.97	5.95	2.62	2.53	1.85	4.60	1.75	2.88	1.65	2.63	5.30	3.47	2.50	8.00	4.22	3.33
Birds/Hour	3.54	54.19	15.18	60.22	36.78	48.54	35.71	36.84	75.68	134.63	36.54	40.14	115.61	91.12	109.59	24.26	49.59	86.80	115.44	93.69	60.82

NORTH AMERICAN MIGRATION COUNT- MAY 8, 2004

	DELA	ERIE	FAYE	FORE	FRAN	FULT	GREE	HUNT	INDI	JEFF	JUNI	LACK	LANC	LAWR	LEBA	LEHI	LUZE	LYCO	McKE	MERC	MIFF
Snow Goose																					
Canada Goose	126	117	8	8	362	31	351	35	293	2	132	296	964	315	134	31	118	64	49	227	49
Mute Swan			2				2					1	3	2					2		
Tundra Swan					1																
Wood Duck	6	10	2	8	36	10	22	3	22	2	199	24	86	90	27		22	14	17	17	6
Gadwall																					
American Wigeon	1		2										1								
American Black Duck																					
Mallard	16	76	17	1	154	1	61	8	78	2	127	44	268	84	56	8	46	38	14	9	41
Blue-winged Teal		1	4					1	1		1			4						2	
Northern Shoveler	2																				
Northern Pintail													2								
Green-winged Teal													2					1			
Ring-necked Duck								1													
Greater Scaup		2																			
Lesser Scaup		25											1					2			
Surf Scoter		4							1												
White-winged Scoter		1																1			
Bufflehead		11	4								4							2	1		
Hooded Merganser					3						1			4	1		2	1	2	1	
Common Merganser	1		3	1			1				6	3	1		2		1	18	15	1	
Red-breasted Merganser		172							14	8	12		11	4				4		7	
Ruddy Duck		2			1				1				1								
Ring-necked Pheasant				1	7	1	6		4	1	7	1	7	2	1					3	2
Ruffed Grouse					1	1	2	2	11		4	4			1		1	4	2	2	2
Wild Turkey		5		3	8		95	5	51		11	10	2	51	3	4	2	2	14	4	3
Northern Bobwhite							1								5						
Red-throated Loon																					
Common Loon					1				2		6	1	3	1			3	4		3	
Pied-billed Grebe	1	2				1		1						7					1	1	
Horned Grebe		1																1			
Double-crested Cormorant	7	79	3					1	4		21	7	111	4	7		3	2	1	16	
American Bittern		1																1			
Least Bittern																					
Great Blue Heron	6	38	2	1	12		77	1	28	1	5	19	36	106	6	6	10	2	4	10	
Great Egret	4				1						1				3		1				
Little Blue Heron																					
Green Heron		7	1		20		3	6	4		7	1	10	5	4	1	2	5	1	1	3
Black-crowned Night-Heron													94		3				1		

NORTH AMERICAN MIGRATION COUNT- MAY 8, 2004

	DELA	ERIE	FAYE	FORE	FRAN	FULT	GREE	HUNT	INDI	JEFF	JUNI	LACK	LANC	LAWR	LEBA	LEHI	LUZE	LYCO	McKE	MERC	MIFF
Yellow-crowned Night-Heron																					
Glossy Ibis*	6				44	1		3			8		120		20			2			6
Black Vulture																					
Turkey Vulture	42	20	2	61	151	2	289	32	72	4	163	39	261	19	122	18	19	56	28	29	77
Osprey	3		1		9	1	3	1	3		6	5	16	1	3		6	5	7	4	4
Mississippi Kite*																					
Bald Eagle	2	3			2			1	1				17	3			1	2	1	6	1
Northern Harrier		4	1		8				3				3	5	4	1		4			5
Sharp-shinned Hawk	1	1	1	2	5	1	5	1	3	4	4	1	1	1	1		2	3	2	2	
Cooper's Hawk	1		1	1	6	2	4		4	4	3	4	9	1	1		2	1	1	1	1
Northern Goshawk																					
Accipiter sp.											1	1		1							
Red-shouldered Hawk			1	2	2			2			2		2	3	5		1	1	1	2	
Broad-winged Hawk	1		1		7	1		7	6		4	5	7		3		4	3	4	2	
Red-tailed Hawk	14	5	1	3	55	2	59	5	47	1	47	20	50	26	9	8	16	7	4	25	13
Rough-legged Hawk					1																
Buteo sp.																					
Golden Eagle																				1	
American Kestrel	3	2	1	3	9	1	14	3	8		14	8	10	4	1	1	2	6	1	1	4
Merlin		1																			
Peregrine Falcon								1					3			1					
King Rail*																					
Virginia Rail																				3	1
Sora		4						2												5	4
Common Moorhen		3																			
American Coot		10							15		1		2	2	2						
Sandhill Crane																					
Black-bellied Plover																					
Semipalmated Plover																					
Killdeer	1	18	4	2	84	3	36	4	4		24	18	22	85	9	14	6	13	21	14	14
Greater Yellowlegs	1	2		2	11		8		7				9	15	3	2	2		3	2	1
Lesser Yellowlegs		7		1	6	1	5						39	12	8	3	3		19		
Solitary Sandpiper	1	15	1		17		20	5	5		26	4	48	5	20	8	8	2	19	5	3
Willet																					
Spotted Sandpiper	6	6	1		24	3	11	9	10		193	6	39	9	11	11	4	4	1	3	4
Upland Sandpiper																					
Semipalmated Sandpiper					7							1		18	2						
Least Sandpiper					10		2		5		5		157	18	16				1		
White-rumped Sandpiper														18							

NORTH AMERICAN MIGRATION COUNT- MAY 8, 2004

	DELA	ERIE	FAYE	FORE	FRAN	FULT	GREE	HUNT	INDI	JEFF	JUNI	LACK	LANC	LAWR	LEBA	LEHI	LUZE	LYCO	McKE	MERC	MIFF
Pectoral Sandpiper																					
Dunlin		7											8	1	12				4		
Short-billed Dowitcher																			2		
Wilson's Snipe		1									1		6	2	1				22		
American Woodcock				1	1	3		5	10		4	3	6		9		2	2	17	1	
Laughing Gull*	1	1																			
Bonaparte's Gull		2											87								
Ring-billed Gull	24	873	1					55	49	129			962	4	13	3	6	52	4	4	
Herring Gull	18	110			3								2	1			1			1	
Great Black-backed Gull		27											3								
gull sp.																					
Caspian Tern		25											1								
Common Tern																				1	
Forster's Tern	16	1																		1	
Black Tern																			1		
tern sp.																					
Rock Pigeon	9	23	1	9	270	1	25	18	82	7	261	87	219	20	151	4	17	103	16	15	117
Mourning Dove	50	61	5	18	366	7	193	30	275	9	133	130	305	60	79	17	55	48	26	34	56
Black-billed Cuckoo	3	1	1			1	13	7	6		4		3	1	1				1		
Yellow-billed Cuckoo	2		1		9	1	4	4	3		6		11		1		1	1			
Barn Owl											2										
Eastern Screech-Owl		1			4		1		1		4		6	2	1				4		1
Great Horned Owl	2		1		5		2	4			6		2	2	2	1			3	3	4
Barred Owl					3		10	1			1	2	1	3	3		2	1	26	4	
Northern Saw-whet Owl				1													1				
Common Nighthawk							1								1						
Whip-poor-will					5	1	1	15	2		5						3	5	2	2	1
Chimney Swift	34	21	15	6	116	1	216	18	136	12	80	5	203	94	47	16	13	25	14	29	29
Ruby-throated Hummingbird	2	4	5	5	67	1	41	10	75	1	21	3	14	6	8	4	3	5	3	7	19
Belted Kingfisher	2	5	1	2	16		14	3	7	1	22	6	11	10	4	1	3	4	4	6	2
Red-headed Woodpecker		4	1		18		1					1	2	11			1			4	2
Red-bellied Woodpecker	28	5	3	1	133	4	97	30	88	1	70	4	82	22	37	25	7	11	2	15	26
Yellow-bellied Sapsucker		2		5	2							2					2	3	29	3	
Downy Woodpecker	8	9	1	4	80	1	28	17	37		47	11	25	11	24	15	11	7	10	11	9
Hairy Woodpecker	5	3	1	2	21		4	9	26		12	2	8	2	7	3	2	3	11	3	4
Northern Flicker	28	22	3	7	84	1	59	32	97	2	50	11	63	6	29	5	22	14	5	11	23
Pileated Woodpecker	4	1	4	3	33	2	24	15	36		37	9	8	7	15	2	4	8	4	2	14
Olive-sided Flycatcher																					
Eastern Wood-Pewee	4	1			10	3	8	4	1		4		1		1				1		5

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	DELA	ERIE	FAYE	FORE	FRAN	FULT	GREE	HUNT	INDI	JEFF	JUNI	LACK	LANC	LAWR	LEBA	LEHI	LUZE	LYCO	McKE	MERC	MIFF
Yellow-bellied Flycatcher	1				12	2	16	5	3		3		3	5							1
Acadian Flycatcher	6		1						2									4	1		
Alder Flycatcher				1				1	3		2		2						1		
Willow Flycatcher		2	1	2	10		2	5	8		3	12	2		2	1	13	14	23	3	4
Least Flycatcher									1		1	1	1		1						1
empid sp.																					
Eastern Phoebe	2	5	6	7	76	2	87	15	83	3	40	24	31	9	19	10	18	13	27	16	30
Great Crested Flycatcher	5	3	4		49	3	11	21	9	69	6	6	42	4	16	1	5	14	5	7	26
Eastern Kingbird	9	10			80	2	31	9	18	2	29	13	54	6	16	5	3	8	7	4	8
White-eyed Vireo	5		1		3		63		14		8		36	13	14	1	1	1		8	3
Blue-headed Vireo	5	4		15	7	1	2	20	17	1	4	1	8	3	4	2	3	5	41	1	1
Yellow-throated Vireo	4				7	4	11	3	11	18	4	4	8	11	1	2	2			7	
Warbling Vireo	17	27	1	1	14		19	13	8	76	23	23	34	22	4	15	6	5	2	7	7
Philadelphia Vireo										1											
Red-eyed Vireo	22	2	31	6	266	3	170	140	127	4	129	15	119	69	83	4	11	8	44	2	50
vireo sp.																		1		32	
Blue Jay	28	709	16	25	290	3	212	79	359	11	200	94	178	63	109	54	119	31	22	41	75
American Crow	58	34	20	50	204	3	278	98	435	17	173	247	134	65	103	41	115	86	35	45	116
Fish Crow	2				14			7		12			179		52	1	7	2			4
crow sp.					0								28								
Common Raven			1		4		5	9	10	2	8				3		4	6	5		6
Horned Lark		3			27	1			10				10	16	2					6	5
Purple Martin		14			31	3	151			75			169	349	52	8				156	87
Tree Swallow	123	85	9	13	190	4	162	37	239	8	110	346	480	115	469	17	131	150	32	50	21
N. Rough-winged Swallow	5	39	2	4	42	2	20	1	68		80	32	103	9	25		51	7	12	17	1
Bank Swallow		4		2	5		5	1	3	1	1	63	503	35	11		3	3	3	10	
Cliff Swallow		3	10	4	4			55	2			2	38	7			1	35	88	28	
Barn Swallow	19	64	9	12	397	4	330	29	299	11	237	248	420	144	92	49	84	93	41	59	112
swallow sp*					5			1													
Carolina Chickadee	16		10	13	51	3	62	63	146	7	48	119	55	31	20	23	40	29	39	21	23
Black-capped Chickadee					3		7						13								
chickadee sp.					3			45	136	3	118	233	83	32	77	35	17	12	8	39	44
Tufted Titmouse	36	11	13	15	90	5	121	5	1			2					3	9	2		
Red-breasted Nuthatch	7	4	5	3	49	3	32	20	55	1	42	10	10	4	13	16	10	6	8	11	14
White-breasted Nuthatch				6	3			2	2								1	2	1	1	
Brown Creeper		1	1		3			2	2								1	2	1	1	
Carolina Wren	18	1	1		48	3	42	15	21	1	63	3	45	6	10	6	13	9	1	5	23
House Wren	26	26	1	1	106	1	64	34	40	25	10	10	57	28	13	14	10	13	4	26	15
Winter Wren					2		2			3					2		3	2	17		

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	DELA	ERIE	FAYE	FORE	FRAN	FULT	GREE	HUNT	INDI	JEFF	JUNI	LACK	LANC	LAWR	LEBA	LEHI	LUZE	LYCO	McKE	MERC	MIFF
Marsh Wren		2											1					1	2		
Golden-crowned Kinglet			1	3				2	4									1	11	1	2
Ruby-crowned Kinglet		27	1	2		1	1	2	2		7	4	3	5	5	1	3	4	4	1	4
Blue-gray Gnatcatcher	18	13	4	54		6	72	48	51		82	1	57	18	40	5	7	2	3	15	26
Eastern Bluebird	21	13	7	83		1	113	18	68		50	9	80	33	20	2	18	17	8	9	30
Veery	14	12	1	2				1	1			10	43		15	5	8	2	2	2	2
Gray-cheeked Thrush																					
Swainson's Thrush	1	1	1	1						6		6	2	1	1	1	1	1	1		
Hermit Thrush		1	18					2	7		3			1	1	8	7	17	26	1	2
Wood Thrush	50	44	11	10	153	10	280	111	259	134	134	41	258	103	172	31	7	25	6	54	49
thrush sp.																					
American Robin	177	215	33	41	732	25	807	139	1341	23	360	402	468	372	228	87	179	106	43	78	279
Gray Catbird	118	84	23	5	348	10	210	67	258	2	291	134	461	127	323	71	74	34	18	39	23
Northern Mockingbird	23	1		134		3	54	4	10		31	3	51	3	10	1	3	5	2	2	25
Brown Thrasher	1	13	1	1	78	1	51	12	26		26	4	19	2	18	4	5	4	2	6	14
European Starling	75	92	8	43	716	3	848	38	589	22	571	383	556	322	2200	17	77	76	173	71	235
American Pipit		54			83						10			7			2		4		52
Cedar Waxwing	3	2	3		44	1	2		7		57		33	1	2		8		2	3	4
Blue-winged Warbler	5		2				84	7	20		5	9	22	14	25	6	3		14	19	1
Golden-winged Warbler			10		2			26	6		13		1				1				1
Brewster's Warbler			1						1		4	1									
Lawrence's Warbler											1										
Tennessee Warbler	1		1			1	2			2						1	5		1		
Orange-crowned Warbler																					
Nashville Warbler		10	2	1	2	2	6	6	12		9	16	9	5	8		7	6	6	5	6
Northern Parula	9		5	1	3	1	19	19	6		9		20	1	6	15	12	7	7		1
Yellow Warbler	24	195	9	8	74	5	298	28	187	3	58	61	61	74	79	14	57	43	19	79	29
Chestnut-sided Warbler	9	9	10	12	7	1	4	25	21	2	12	7	23	9	15	11	8	11	16	12	6
Magnolia Warbler	3	2	1	10	3	1	4	5	23		9	1	22	5	11	5	8	2	28	9	3
Cape May Warbler					1				1		1				1				4		
Black-throated Blue Warbler	4	3	3		11	4	2	20	5		18	3	43		41	12	14	6	8	1	6
Yellow-rumped Warbler	21	66	9	8	67	1	18	27	26	1	209	116	157	65	29	21	47	62	12	26	22
Black-throated Green Warbler	1	5	16	43	50	4	7	94	103	6	75	51	32	12	77	13	49	55	134	18	32
Blackburnian Warbler			1	15	2	3	1	42	5		6	1	5		10	2	4	5	61	5	7
Yellow-throated Warbler					3		7	1	2		1		4							1	
Pine Warbler		6	1		7	3		8	2		1	2	4	1		3					1
Prairie Warbler	3		2		14	1	18	18	32		12	18	3		2	7	7	6	3		10
Palm Warbler		46	1			1	1	1	1		1	1	1	2		3			1		
Bay-breasted Warbler			2	1			1	1	4	1	1		2		3		5		4		

NORTH AMERICAN MIGRATION COUNT- MAY 8, 2004

	DELA	ERIE	FAYE	FORE	FRAN	FULT	GREE	HUNT	INDI	JEFF	JUNI	LACK	LANC	LAWR	LEBA	LEHI	LUZE	LYCO	McKE	MERC	MIFF
Blackpoll Warbler									3		2		2		2		3				2
Cerulean Warbler	1		1		6	4	49	4	14		5			3			1		13	4	1
Black-and-white Warbler	6	6	5	8	11	3	14	17	10		27	7	46	5	31	3	25	13	6	4	35
American Redstart	10	5	1	3	66	6	93	33	40		43	10	53	3	63	4	14	12	49	30	16
Prothonotary Warbler					2					1	1		5				1				
Worm-eating Warbler					12	1	6	26	2	18	1	1	9		4	1	3				10
Swainson's Warbler*															1						
Ovenbird	10	4	15	51	143	5	105	262	226	6	142	105	184	6	306	26	78	51	36	15	83
Northern Waterthrush	1	1		1	3	1				1	1	5	4				4	1	4	3	
Louisiana Waterthrush	3	1	1		8	2	23	11	6	19	2	2	18	5	9	1			2	8	1
Kentucky Warbler	1	1	1			1	35		5		1		3	2	1					3	
Mourning Warbler																			8	1	
Common Yellowthroat	46	32	17	5	120	9	260	157	311	2	132	99	112	116	133	20	66	48	26	52	49
Hooded Warbler	1	6	13	2	23	4	35	24	54		21	3	3	25	14	1	1	2	14	19	2
Wilson's Warbler			3		1		1	2	1		7	7	7		3		1	3	2		2
Canada Warbler	2	1			3		2	17		4	4	5	7	1	5		2	1	2	3	
Yellow-breasted Chat	1				5		40	8	10		7		15	1							4
Summer Tanager*							1														
Scarlet Tanager	4	2	19	6	102	5	129	73	107		101	12	64	26	35	11	10	6	11	39	56
Northern Cardinal	70	39	7	9	290	5	343	68	296	4	232	57	253	89	91	29	41	23	19	50	92
Rose-breasted Grosbeak		36	6	15	24	1	88	25	123		16	19	26	53	12	20	29	12	59	58	5
Blue Grosbeak*					1		2						2				1				
Indigo Bunting	8		30	2	93	3	189	37	93		107	6	93	1	34	3	18	21	1	7	45
Dickcissel																					
Eastern Towhee	13	22	31	8	158	19	401	147	322	5	109	13	90	66	75	9	41	29	21	54	78
American Tree Sparrow		2			10		3							1				30			
Chipping Sparrow	27	64	7	22	222	4	162	103	303	3	187	108	100	73	66	7	113		30	43	87
Clay-colored Sparrow		1																			
Field Sparrow	3	5	27	1	62	1	128	44	83	6	34	37	34	31	20	2	12	13	11	16	37
Vesper Sparrow		2			14				2		2		3	1				1			1
Savannah Sparrow		5	2	1	12	3	5		5		3	3	7	30	4	1			2	8	5
Grasshopper Sparrow			4		27	1	16	2	12	1	3		13	4	2	2	2				
Henslow's Sparrow			2						34	1				4							
Fox Sparrow					2														1		
Song Sparrow	77	82	6	17	211	6	192	62	248	13	292	133	133	125	34	7	49	41	19	43	91
Lincoln's Sparrow		2	1		1				1				2				1				
Swamp Sparrow	2	10						3	12		2	4	16	24	2		6	1	73	10	
White-throated Sparrow	3	78	2	1	69		9	3	14	1	34	23	42	7	43	10	17	9	17	9	21
White-crowned Sparrow		186	4	10	68	1	27	41	42		62	24	21	9	25		27	39	10	15	8

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Dark-eyed Junco		1	1	2	8			5	4	1	5	4			2		3	21	32	1	
Oregon Junco																					
Bobolink	6	22	2	6	7		30	2	15	1	2	121	124	27	13	8	13	17	6	29	5
Red-winged Blackbird	144	241	25	54	437	6	717	57	926	17	466	591	371	308	64	27	183	231	79	584	97
Eastern Meadowlark		2	2	3	55	6	53	11	85	5	19	8	21	132	6	1	9	13	3	4	10
Rusty Blackbird					5														2		
Common Grackle	6	230	15	28	731	1	214	101	708	27	726	127	793	237	162	33	123	125	56	78	278
Brown-headed Cowbird	26	87	7	4	141	1	156	20	87	3	131	40	199	14	47	19	34	35	13	34	72
Orchard Oriole					12		88	3	12		21		27	5	2			1	1	5	10
Baltimore Oriole	56	45	6	11	172	8	183	38	206	1	307	53	162	58	64	25	24	35	16	32	54
Purple Finch		4	1	5	19	1	7		44		4	14	3	3		1	2	2	7	7	
House Finch	97	8	5	6	134	1	31	13	130		36	14	69	23	40	5	17	10	15	18	51
Pine Siskin		1	1		2			10	13		2	2					3		11		1
American Goldfinch	55	185	30	63	439	2	224	145	427	30	287	170	260	131	115	28	94	162	33	68	100
Evening Grosbeak							1														
House Sparrow	31	50	7	14	361	1	690	17	277	7	219	93	333	63	139	14	41	23	21	86	163
Total birds	2197	5327	727	930	11384	343	11386	3513	12208	325	9427	5501	13506	5162	9584	1116	2899	2651	2269	3070	3670
Total species	111	139	120	94	155	102	130	132	146	56	149	113	164	138	144	88	144	127	146	135	118
Total observers	10	9	14	2	74	2	37	13	66	1	23	15	44	6	15	4	25	9	5	11	21
Total Hours	22	33	8.5	15.5	159	6.5	127.75	55	128	5.5	96.5	76.75	150	24.75	67.25	17.25	59	44.5	16	80	52
Hours/observer	2.20	3.67	0.61	7.75	2.15	3.25	3.45	4.23	1.94	5.50	4.20	5.12	3.41	4.13	4.48	4.31	2.36	4.94	3.20	7.27	2.48
Birds/Hour	99.86	161.42	85.53	60.00	71.60	52.77	89.13	63.87	95.38	59.09	97.69	71.67	90.04	203.57	142.51	64.70	49.14	59.57	141.81	38.38	70.58

NORTH AMERICAN MIGRATION COUNT- MAY 8, 2004

	MONR	MONTG	MONTO	NHAM	NUMB	PERR	PHIL	PIKE	POTT	SCHU	SNYD	SOME	SUSQ	TIOG	UNIO	VENA	WASH	WAYN	WEST	WYOM	YORK
Glossy Ibis*																					
Black Vulture				12		2				3											13
Turkey Vulture	10	17	2	72	27	18	2	2	42	127	12	14	26	39		31	7	25	68	16	102
Osprey			1	13	1					3	1	1	1	3	2	3	3	3	5	2	8
Mississippi Kite*																					
Bald Eagle	2			2				4		1				1		4		3	2	2	5
Northern Harrier					1	1			1	7			1	2				1	2		
Sharp-shinned Hawk	1	1		4	1		1			9	1	1	1	1				1	4		2
Cooper's Hawk	1			5	1	1	1	2	1	11		1		3					5		1
Northern Goshawk						1															
Accipiter sp.																			2		
Red-shouldered Hawk						3				7			1			1		1	2		1
Broad-winged Hawk				4	7					9		2	3	2		2		5	5	1	1
Red-tailed Hawk	4	11	2	35	9	6	7	1	6	36	5	8	5	28		8	2	11	75	3	30
Rough-legged Hawk																					
Buteo sp.																					
Golden Eagle																					
American Kestrel	2	1	2	1	5		1		1	15	2	4	3	3	1	2	2	5	11		5
Merlin										1				1						1	
Peregrine Falcon	1			1	2																
King Rail*																					
Virginia Rail				1	4							1	6			2			3		4
Sora					7									1		1			3		
Common Moorhen																					
American Coot							1					8							1		1
Sandhill Crane																					
Black-bellied Plover																					
Semipalmated Plover				2																	
Killdeer			1	3	5				15	27	1	20	8	5		1	7	16	70	13	10
Greater Yellowlegs				6	7					4		2	1			3			2		
Lesser Yellowlegs				9	20					3		17	1			1			3		1
Solitary Sandpiper	2	1	4	18	3		1	1	3	19	3	3	1			14	1	2	14	3	6
Willet													2			1					
Spotted Sandpiper	6	11	2	28	6		4		1	34	1	4		2	2	8		3	15	6	32
Upland Sandpiper																3					
Semipalmated Sandpiper							12					1									
Least Sandpiper					5		9		3			5	1			20		3	1		32
White-rumped Sandpiper	3																				
Pectoral Sandpiper							1														

NORTH AMERICAN MIGRATION COUNT- MAY 8, 2004

	MONR	MONTG	MONTO	NHAM	NUMB	PERR	PHIL	PIKE	POTT	SCHU	SNYD	SOME	SUSQ	TIOG	UNIO	VENA	WASH	WAYN	WEST	WYOM	YORK
Dunlin																					
Short-billed Dowitcher					2							9		3		7	1	1		1	
Wilson's Snipe					1					1		7				5		2	1		
American Woodcock							61														
Laughing Gull*					1						1										6
Bonaparte's Gull					19		67			5	108		6			90		1	1		227
Ring-billed Gull	6			180									1								1
Herring Gull				15																	
Great Black-backed Gull				50						1											
gull sp.																					
Caspian Tern																					1
Common Tern																					
Forster's Tern																					
Black Tern																					
tern sp.																					
Rock Pigeon	10	2	2	84	75	7	271		50	236	24	35	20	63	17	28	1	48	90	70	65
Mourning Dove	10	58	6	69	83	9	53	4	44	221	14	38	35	62	11	10	16	84	183	61	99
Black-billed Cuckoo			1	1	3	1				1	1								19	1	
Yellow-billed Cuckoo				1	3	4	1			5	1								15	1	6
Barn Owl																					
Eastern Screech-Owl	1	1		3	2					2	1					1			3	1	1
Great Horned Owl				2	2					2	1					1				1	1
Barred Owl				2	1		1			3	1	1		2		4			2		
Northern Saw-whet Owl										1											
Common Nighthawk					1		1			4						1			2		
Whip-poor-will				1	7	1				3		8			3				4		
Chimney Swift	2	23		41	150		24		6	39	9	43		14	6	43	1	30	166	7	103
Ruby-throated Hummingbird	7	1	1	10	2	7	2	1		29	3	6	3	13		1		11	44	2	7
Belted Kingfisher	2	2		2	2			2	2	16	2			6		1		2	8	6	6
Red-headed Woodpecker	4		2		4		43					1		1		7	3		2		3
Red-bellied Woodpecker	5	22		32	14	9		3	14	41		4	2	11	3	7		6	85	18	47
Yellow-bellied Sapsucker										2			2	38		4		19	2	6	
Downy Woodpecker	5	4	1	23	9	10	15		3	57	3	2	2	19	2	1		21	42	16	14
Hairy Woodpecker	2	4		2	2		1			8		2	2	10	1	1		8	9	4	2
Northern Flicker	2	7	3	16	8	8	26	1	14	48	3	7	5	13	2	11	6	16	96	13	16
Pileated Woodpecker			1	4	4	9	1	1	1	22	1	2		6		4		5	27	5	6
Olive-sided Flycatcher										1		1							3		
Eastern Wood-Pewee					1					5		1	1					3	12		5
Yellow-bellied Flycatcher																			1		

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Acadian Flycatcher				1	1		1			1		1					1		20		6
Alder Flycatcher	1																	1			
Willow Flycatcher				1													2	1	2		
Least Flycatcher				5	3		2	3	2	18	1	9	2	5		9	2	8	6	24	
empid sp.	1			1	1		2			2									2		
Eastern Phoebe	7	5	4	10	8	5	3	4	14	46	1	3	3	12	4	7	3	24	52	25	15
Great Crested Flycatcher	2	1	2	12	5	5	10	1	41	41		1	1	7	1		3	7	8	12	21
Eastern Kingbird	2	14		14	7	1	16		7	24	7	3	3	6		6	3	11	26	3	30
White-eyed Vireo				1		1	6			6		2				1	3		43		19
Blue-headed Vireo	2			4	7		14	4	8	30		6	1	7	6	1		16	5	7	8
Yellow-throated Vireo	1	3		10	3	2	2		4	4		3				3		21	10	8	8
Warbling Vireo	2	13		27	6		16	1				4	1	2	2	8	1	7	15	12	21
Philadelphia Vireo							1	1										1			
Red-eyed Vireo	10	12		16	177	21	22	3	3	124	8	26	3	5	10	3	7	18	239	9	110
vireo sp.								1													
Blue Jay	11	27	7	131	4	18	21	31	57	418	24	47	9	93	2	18	11	71	290	58	76
American Crow	21	21	8	145	216	28	16	4	101	350	20	43		80	2	12	8	172	245	187	64
Fish Crow	2		1	16	4		1			13			30	4				8			27
crow sp.																					
Common Raven						1		1	25	7	4			12				1	7	4	
Horned Lark				3	9					3		8				2			2		
Purple Martin	6				11					62											68
Tree Swallow	15	117	15	113	76	5	210	29	121	288	18	115	17	211	4	62	7	182	117	94	81
N. Rough-winged Swallow	6	37		46	21	3	19		6	87		4	40	12	2	23		9	54	7	50
Bank Swallow	12			1	2					50		12		8		158		210		103	4
Cliff Swallow	22				14				27	9		50		18		1			4		16
Barn Swallow	2	29	12	83	140	6	32		51	435	12	59	76	142	10	8	19	118	178	58	100
swallow sp*				16									20								
Carolina Chickadee	2	4				1	18										2		32		59
Black-capped Chickadee	8	2	4	23	13	5	2	5	41	73	2	20	12	51	10	7		250	72	43	
chickadee sp.		15				5				5									8		
Tufted Titmouse	13	19	3	36	29	25	16	3		107	3	8	1	21	3	5	10	32	133	37	40
Red-breasted Nuthatch						1		2	2	5		2				2			1		1
White-breasted Nuthatch	4	7	1	14	3	6	3	1	3	32		1	3	18		2		30	41	20	10
Brown Creeper					1			1		2					1	2		5	1		
Carolina Wren	2	8		23	16		12	2		21		7		4	3	1	2	3	38	5	35
House Wren							26	5	5	79	3	16	1	11	3	5	4	22	73	29	37
Winter Wren						8															
Marsh Wren							6					1							7		

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Golden-crowned Kinglet										9											
Ruby-crowned Kinglet		1		3	4		1	1		36		4		3	3	2		6	9	1	4
Blue-gray Gnatcatcher	8	14		22	21	15	15	5		69	2	1		5	3	6	1	16	42	8	58
Eastern Bluebird	6	2	1	16	24	9	1	2	7	66	8	5		19		11		30	41	10	14
Veery		3		10	5		11		2	20		1		3	6	1		7	6	9	1
Gray-cheeked Thrush	1						2			1									1		
Swainson's Thrush		1		5	2		9												4		3
Hermit Thrush					3		1		7	20				4	5	5		4		4	1
Wood Thrush	5	17	2	56	43	12	44	14	4	106	1	38	4	7	3	13	17	8	324	39	99
thrush sp.								1		1											
American Robin	13	86	23	178	360	24	433	40	169	527	35	144	32	146	18	50	67	367	1093	143	148
Gray Catbird	12	71	13	241	36	20	290	19	18	429	18	50	4	43	12	29	13	53	249	65	169
Northern Mockingbird	1	8	1	15	8	1	13			23	6			3	1		13	2	33	3	43
Brown Thrasher			2	4	8	1	8	1	7	12	1	3		8			3	8	17	6	12
European Starling	15	8		67	530	31	267	2	122	615	55	166	40	154	20	32	31	187	575	134	191
American Pipit					1					47		1									
Cedar Waxwing		7		9	2	4	8		3	8	4	10		2	2	10	2	2	41	2	8
Blue-winged Warbler	3			6		8		1	6	41		3				1		2			
Golden-winged Warbler						2				5		3									
Brewster's Warbler																					
Lawrence's Warbler																					
Tennessee Warbler					4		1											3	5	2	1
Orange-crowned Warbler																					
Nashville Warbler	2	1	1	1	23		4		2	24	1			3		5		6	31		
Northern Parula	10	7		10	16	3	45	9		29		7	1	1	1	2		10	20		42
Yellow Warbler	5	7	2	59	56		61	7	15	123	9	49	7	41	5	75	26	102	245	55	57
Chestnut-sided Warbler	1	1	2	11	7	3	5	3	18	58		6	5	12	2	20		35	29	13	4
Magnolia Warbler	3	2		11	6		11	3	5	17	2	2	2	3	1	5	1	1	38	1	2
Cape May Warbler	1																				
Black-throated Blue Warbler	3	6	1	25	27		29	2	2	81		13		4	4			5	32	1	9
Yellow-rumped Warbler		10	3	91	18		56	15	6	170				20	14	27		47	9	36	103
Black-throated Green Warbler	4	5	1	18	47	3	11	12	15	151	7	13	6	26	22	14		43	106	32	27
Blackburnian Warbler		2		2	4		5		5	23		1		10	3	2		15	5	1	
Yellow-throated Warbler												3				1	1				
Pine Warbler				1	2	2		3		9								18			3
Prairie Warbler		3		4	12	8	1	1		28								2	9	8	6
Palm Warbler							1			1					1						
Bay-breasted Warbler					2								1					1	1		2
Blackpoll Warbler				1	2		8											1	1		1

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Cerulean Warbler	3			1	5	1				1		2				3	2		33		10
Black-and-white Warbler	7	7	1	11	12	2	26	4		97		9	3	9	2	14	1	36	32	9	7
American Redstart	5	4		32	37	3	20	3	1	52	2	31	2	2	4	6		29	129	49	45
Prothonotary Warbler																					1
Worm-eating Warbler	2			2	14	1	1	1		30		1							2	1	16
Swainson's Warbler*																					
Ovenbird	12	13	1	21	135	26	26	30	23	430	3	17	5	12	18	13		62	81	66	44
Northern Waterthrush				4	2		7	1		1		1				1		2	5	1	
Louisiana Waterthrush	2	2		2	3		2	2		13		5	1			3	1	1	27		6
Kentucky Warbler										1		2					2		30		6
Mourning Warbler																1					
Common Yellowthroat	7	24	10	57	92	17	52	10	25	326	15	37	14	31	21	12	23	47	275	49	63
Hooded Warbler	4				6	2	3		2	40		8			4	3	1		114		6
Wilson's Warbler				2	1		1			5			1	1					3		1
Canada Warbler				3			3			6		2				1		1	5	1	
Yellow-breasted Chat						3				8									5		7
Summer Tanager*																					
Scarlet Tanager	6	4		21	54	8	12	11	4	88	3	25		2	5	11	4	4	146	13	35
Northern Cardinal	6	43	8	80	41	36	70	5	9	136	6	25	4	35	2	6	18	22	418	61	121
Rose-breasted Grosbeak	4	9	1	49	24	1	2	13	27	64		27	11	33	4	16	9	11	229	22	9
Blue Grosbeak*																					
Indigo Bunting	3	3	2	15	33	14	2			63	3	8		7	2	5	12	5	101	9	56
Dickcissel																					
Eastern Towhee	3	5	2	32	36	9	6	4	4	138	9	28	3	40	38	12	14	21	355	28	63
American Tree Sparrow									4												
Chipping Sparrow	9	14	1	44	88	24	15	42	44	333	13	34	4	38	8	27	7	76	217	51	53
Clay-colored Sparrow																					
Field Sparrow				24	10	13		1	3	42	12	6		6		16	3	5	97	10	19
Vesper Sparrow				1	17					1	2	3	3				2		3	2	2
Savannah Sparrow		1		2	2				13	5		13	4			5	4		10	4	
Grasshopper Sparrow					2							10	1			2			16	3	3
Henslow's Sparrow																					
Fox Sparrow																					
Song Sparrow	2	27	5	102	23	6	76	1	43	126	4	39	10	56	9	11	19	50	235	72	54
Lincoln's Sparrow	1						2		1	2				3					1		
Swamp Sparrow	1			1	3		8			3	1	21		25		12		5	12	4	
White-throated Sparrow	8	7	4	39	32	4	39	3	8	168			1	26	6	2	1	10	13	7	2
White-crowned Sparrow	1	1	5	25	6				108	106	3	3	12	61	2	2	3	6	27	10	1
Dark-eyed Junco					1				10	2	4	1	2	36	2		16		12	11	

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Oregon Junco				4	9				22	13		22	125	48		26	9	30	9	1	10
Bobolink				124	450	20	255	2	180	573	34	190	150	183	14	68	84	460	708	188	146
Red-winged Blackbird	37	52	30	4	4				4	12	1	20	2	1		11	20	1	40	13	11
Eastern Meadowlark							1							2							
Rusty Blackbird				345	440	27	76	1	110	469	59	90	22	99	20	32	22	75	527	115	151
Common Grackle	8	38	36																		
Brown-headed Cowbird	8	21	9	83	5	1	44	17	11	167	4	7	7	29	2	4	3	9	126	20	57
Orchard Oriole				12	2		9			2	4	2					1		17	1	7
Baltimore Oriole	3	32	12	93	42	17	69	13	11	124	11	25	5	39	6	16	1	48	215	50	92
Purple Finch	2			1			2	1	12	16			5	35		2		10	4	3	
House Finch	7	11	1	37	13	9	23	3	3	91	5	4	3	12		4	6	5	111	13	34
Pine Siskin									2	2		2	6	2		1			4		
American Goldfinch	27	30	10	80	41	14	44	20	188	298	15	39	306	287	8	28	22	120	273	181	101
Evening Grosbeak																					
House Sparrow	9	16	1	28	52	2	188		46	297	27	56		20	10	32	11	31	338	31	59
Total birds	552	1291	347	4250	4413	657	3717	464	2174	11235	787	2167	1291	3124	445	1571	636	4026	11389	2954	4724
Total species	95	93	64	137	141	79	115	73	86	153	78	123	82	115	73	129	73	121	155	114	135
Total observers	6	7	1	11	2	7	13	2	8	35	2	6	6	26	4	6	2	8	41	7	12
Total Hours	17	30.5	6.75	56	18.5	23.25	30.5	5	42	149.5	15.5	19	14	57.5	3.5	17	6.25	29.75	134.75	47	60
Hours/observer	2.83	4.36	6.75	5.09	9.25	3.32	2.35	2.50	5.25	4.27	7.75	3.17	2.33	2.21	0.88	2.83	3.13	3.72	3.29	6.71	5.00
Birds/Hour	32.47	42.33	51.41	75.89	238.54	28.26	121.87	92.80	51.76	75.15	50.77	114.05	92.21	54.33	127.14	92.41	101.76	135.33	84.52	62.85	78.73

	TOTALS	# of Counts	Percent of Total Count	High	High Count
Least Sandpiper	863	32	0.3543%	329	CHES
White-rumped Sandpiper	8	2	0.0033%	6	BERK
Pectoral Sandpiper	51	10	0.2009%	14	BERK
Dunlin	13	6	0.0053%	7	ERIE
Short-billed Dowitcher	7	1	0.0029%	7	LAWR
Wilson's Snipe	71	22	0.0291%	22	McKE
American Woodcock	108	28	0.0443%	17	McKE
Laughing Gull*	477	4	0.1958%	414	BUCK
Bonaparte's Gull	171	11	0.0702%	87	LANC
Ring-billed Gull	4285	37	1.7590%	962	LANC
Herring Gull	658	15	0.2701%	445	BUCK
Great Black-backed Gull	65	3	0.0267%	35	BUCK
gull sp.	66	4	0.0271%	50	NHAM
Caspian Tern	40	5	0.0164%	25	ERIE
Common Tern	2	2	0.0008%	1	11
Forster's Tern	47	6	0.0193%	16	12
Black Tern	3	3	0.0012%	1	13
tern sp.	2	1	0.0008%	2	DAUP
Rock Pigeon	3772	58	1.5484%	271	PHIL
Mourning Dove	4925	63	2.0217%	366	FRAN
Black-billed Cuckoo	130	31	0.0534%	26	ALLE
Yellow-billed Cuckoo	126	32	0.0517%	15	WEST
Barn Owl	8	4	0.0033%	3	LEBA
Eastern Screech-Owl	88	30	0.0361%	13	BUCK
Great Horned Owl	82	31	0.0337%	7	BUCK
Barred Owl	86	29	0.0353%	26	McKE
Northern Saw-whet Owl	4	4	0.0016%	1	14
Common Nighthawk	31	13	0.0127%	8	BLAI
Whip-poor-will	104	24	0.0427%	15	HUNT
Chimney Swift	2978	57	1.2224%	248	ALLE
Ruby-throated Hummingbird	685	57	0.2812%	75	INDI
Belted Kingfisher	291	51	0.1195%	22	JUNI
Red-headed Woodpecker	79	21	0.0324%	18	FRAN
Red-bellied Woodpecker	1896	59	0.7783%	184	BUCK
Yellow-bellied Sapsucker	161	22	0.0661%	38	TIOG
Downy Woodpecker	1049	59	0.4306%	80	FRAN
Hairy Woodpecker	314	52	0.1289%	26	INDI
Northern Flicker	1415	63	0.5808%	97	INDI
Pileated Woodpecker	463	55	0.1901%	37	JUNI
Olive-sided Flycatcher	5	3	0.0021%	3	WEST
Eastern Wood-Pewee	129	34	0.0530%	12	WEST
Yellow-bellied Flycatcher	3	3	0.0012%	1	15
Acadian Flycatcher	125	26	0.0513%	20	WEST
Alder Flycatcher	8	6	0.0033%	2	16
Willow Flycatcher	28	16	0.0115%	4	LYCO
Least Flycatcher	247	41	0.1014%	24	WYOM
empid sp.	30	16	0.0123%	10	BUTL
Eastern Phoebe	1129	61	0.4634%	87	GREE
Great Crested Flycatcher	696	53	0.2857%	69	JUNI
Eastern Kingbird	833	53	0.3419%	86	CHES
White-eyed Vireo	389	33	0.1597%	63	GREE
Blue-headed Vireo	355	53	0.1457%	41	McKE
Yellow-throated Vireo	264	40	0.1084%	21	17
Warbling Vireo	682	48	0.2800%	112	BUCK
Philadelphia Vireo	12	8	0.0049%	3	BUTL
Red-eyed Vireo	3283	62	1.3476%	266	FRAN
Vireo sp.	4	4	0.0016%	1	18
Blue Jay	6097	63	2.5028%	709	ERIE
American Crow	5967	62	2.4494%	435	INDI
Fish Crow	512	29	0.2102%	179	LANC
crow sp.	87	6	0.0357%	30	SUSQ
Common Raven	156	31	0.0640%	25	POTT
Horned Lark	131	24	0.0538%	27	FRAN
Purple Martin	1559	25	0.6400%	349	LAWR
Tree Swallow	7576	63	3.1099%	638	BUCK
N. Rough-winged Swallow	1398	52	0.5739%	147	BUCK
Bank Swallow	1617	40	0.6638%	503	LANC
Cliff Swallow	886	29	0.3637%	222	BUTL
Barn Swallow	6206	61	2.5475%	435	SCHU
swallow sp*	42	4	0.0172%	20	SUSQ
Carolina Chickadee	598	21	0.2455%	95	BUCK
Black-capped Chickadee	1857	57	0.7623%	250	WAYN
chickadee sp.	205	12	0.0842%	68	ALLE
Tufted Titmouse	2758	61	1.1321%	233	LACK
Red-breasted Nuthatch	51	20	0.0209%	9	LYCO
White-breasted Nuthatch	827	60	0.3395%	55	INDI
Brown Creeper	43	25	0.0177%	5	WAYN
Carolina Wren	988	53	0.4056%	100	BUCK
House Wren	1628	59	0.6683%	145	BUCK
Winter Wren	49	12	0.0201%	17	McKE

Codes for Multiple Counts in High Column

- 1 BERK, YORK
- 2 FAYE, LAWR
- 3 ERIE, LYCO
- 4 CUMB, DAUP
- 5 ERIE, LYCO, YORK
- 6 BUCK, CUMB, DAUP
- 7 BLAI, SCHU
- 8 BUCK, PERR
- 9 ALLE, CENT
- 10 BUCK, ERIE, SCHU, TIOG, WYOM
- 11 ALLE, MERC
- 12 BEDF, DELA
- 13 CUMB, LANC, McKE
- 14 FORE, LANC, LUZE, SCHU
- 15 DELA, MIFF, WEST
- 16 BLAI, INDI
- 17 BUCK, WAYN
- 18 ALLE, CHES, LYCO, PIKE
- 19 DAUP, JUNI, SCHU, WEST
- 20 ALLE, McKE
- 21 JUNI, LANC
- 22 BUCK, GREE
- 23 GREE, LANC
- 24 ALLE, ERIE
- 25 BRAD, FRAN

	TOTALS	# of Counts	Percent of Total Count	High	High Count
Bobolink	1158	48	0.4753%	125	SUSQ
Red-winged Blackbird	13249	63	5.4386%	926	INDI
Eastern Meadowlark	847	53	0.3477%	132	LAWR
Rusty Blackbird	11	5	0.0045%	5	FRAN
Common Grackle	11046	63	4.5343%	793	LANC
Brown-headed Cowbird	2698	60	1.1075%	222	BUCK
Orchard Oriole	407	37	0.1671%	88	GREE
Baltimore Oriole	3872	63	1.5894%	307	JUNI
Purple Finch	315	42	0.1293%	44	INDI
House Finch	1882	61	0.7725%	134	FRAN
Pine Siskin	102	24	0.0419%	13	INDI
American Goldfinch	7792	62	3.1986%	439	FRAN
Evening Grosbeak	1	1	0.0004%	1	GREE
House Sparrow	5472	61	2.2462%	690	GREE
Total birds	253213			15135	BUCK
Total species	238			164	LANC
Total observers	1080			79	BUCK
Total Hours	3416.76			200	BUCK
Hours/observer	3.16			9.25	NUMB
Birds/Hour	74.11			238.54	NUMB