

Observations from the 2005 Pennsylvania Migration Count (PAMC)

Bill Etter

Overview

Our 14th annual Pennsylvania Migration Count occurred on Saturday, 14 May 2005. As usual, weather was a factor in certain areas, but plenty of birders managed to get out to witness and report upon the spectacle that is spring migration in Pennsylvania!

Here are the numbers for 2005:

956 observers contributed
3,367 field hours logged
247,992 birds tallied
231 species found
Reports received from 55 counties

Following several years of steadily growing interest in the count, participation was down slightly this year. Of note is the fact that, while there were significantly fewer observers, total field hours were only 50 fewer than the 2004 total. This is good news, though the loss of participants this year is unfortunate. More on that later...

Weather

Not surprisingly, as count day approached, weather predictions were all over the place. The forecast looked less than desirable for many parts of Pennsylvania. There were showers in many areas, but overall, PAMC 2005 turned out to be a fairly good day, from the average birder's perspective.

In Butler, there were pre-dawn downpours, with early morning temperatures around 60°F. In the words of compiler Gene Wilhelm, "The earlier thunderstorms and low ceiling forced many migrants down...resulting in one of the best fallouts in years. Migrants were actively feeding and singing throughout the morning. An on and off drizzle returned about 1330 hours but never interfered with avian activities, nor observer enjoyment of seeing and hearing the many migrants." Good birders understand the benefits of seemingly adverse weather!

Further north in Erie, Ben Coulter reported a partly cloudy day, with periods of rain in the afternoon. In Centre, Bob Snyder reported light rain through 9:30 am, followed by a partly cloudy afternoon, with highs in the 70s.

The further east, the better the weather: in Bucks, thick early cloud cover yielded to blue skies by 8:30am. Conditions were bright and breezy, turning muggy toward afternoon with a high of 78°F. By 8:00 pm, wind picked up as 100% cloud cover moved in.

Participation

Participation was lessened this year for a variety of reasons. Several key organizers and participants were simply unavailable on count day. A few others simply never turned in reports. Furthermore, New Jersey's World Series of Birding (held annually on the same day as PAMC) proved a greater drain than usual, attracting several of our more enthusiastic birders on 14 May, 2005. On the positive side, PAMC hours per observer were way up in 2005, so it seems that those who participated actually stayed out longer and birded harder. Field hours were up significantly over last year in several counties - doubly so in certain areas.

Reports were received from all counties but Beaver, Cameron, Columbia, Elk, Fayette, Jefferson, Lawrence, Montour, Northumberland, Somerset, Sullivan and Union.

Participation was definitely up in Schuylkill, where 39 observers put in 256 hours, for the greatest PAMC hourly county effort of '05 (and likely ever). Franklin was the only other county with greater than 200 field hours (213). The greatest numbers of participants were in Franklin and Indiana, with 74 and 73 respectively. Great totals!

Table 1. Counties with the most field hours

1	Schuylkill	256
2	Franklin	213
3	Bucks	189
4	Indiana	186
5	Bedford	184
6	Lancaster	162
7	Berks	141
8	Allegheny	139
9	Westmoreland	135
10	Greene	99

Table 2. Counties with the most participants

1	Franklin	74
2	Indiana	73
3	Bucks	61
4	Lancaster	41
5	Schuylkill	39
6	Bedford	36
	Berks	36
	Westmoreland	36
9	Greene	35
10	Delaware	31

Species encountered

PAMC '05 yielded new High Counts (HC) for 30 species, and resulted in two species totally new to the count (Long-eared Owl, Cumberland, and California Gull, Lancaster). Since 1992, a total of 285 species has now been found on the PAMC!

Mute Swan, Wood Duck and Bald Eagle were all found in record numbers for the second consecutive year. Several shorebird species were found in unprecedented numbers (Semipalmated Plover, Dunlin, Short-billed Dowitcher). Other new HCs included both cuckoos, Olive-sided and Willow Flycatcher, Eastern Kingbird, Red-eyed Vireo, Blue Jay, Winter Wren, and both orioles. There were new HCs for five warblers, including Blackpoll, Prothonotary and Mourning, as well as for the Brewster's hybrid. Certain new High Counts can undoubtedly be attributed to the late date of the 2005 count.

As usual, American Robin was the most commonly reported species. While the order has shifted around a bit, there has been very little change in the top five most abundant PAMC species for several years now, with one notable exception: when present, as this year and in '03, the Bucks flock of Laughing Gulls has been known to push Canada Goose out of the top five.

Table 3. Most abundant species

1	American Robin	16,101
2	Laughing Gull	15,058
3	Red-winged Blackbird	11,678
4	Common grackle	11,078
5	European Starling	10,145
6	Canada Goose	9,641
7	Blue Jay	7,800
8	Gray Catbird	7,222
9	American Crow	5,509
10	Tree Swallow	5,461
11	Barn Swallow	5,301
12	Red-eyed Vireo	4,918
13	Northern Cardinal	4,898
14	Mourning Dove	4,782
15	American Goldfinch	4,409
16	House Sparrow	4,298
17	Song Sparrow	4,233
18	Yellow Warbler	4,052
19	Common Yellowthroat	3,957
20	Baltimore Oriole	3,899

Count highlights

Now, a closer look at some highlights from Pennsylvania's 14th annual Migration Count:

Geese through ducks

Canada Goose numbers actually decreased for the first time since 1999, with 'only' 9,641 counted statewide. Mute Swan continued to increase: 129 were reported, the majority from the southeast, with 49 in Bucks alone. A more welcomed new HC was 1,218 Wood Ducks in 46 counties. Only 14 species of duck were found, mostly in small numbers. Among the more interesting late waterfowl migrants were single Gadwall in Butler and Philadelphia, a Common Goldeneye in Lancaster, and 20 Ruddy Ducks (19 in Butler and 1 in Chester).

Fowl through waders

Reports of Ruffed Grouse, our state bird, continued to decline, with just 75 reported from 26 counties (.0223 RUGR / field hour). This is the lowest total ever, with the exception of 1992, when there were only 141 observers. The 1993 count of 79 RUGR was similar to this year's, but field hours were vastly lower in '93 (1,545hrs = .0511 RUGR / hr). The highest '05 count was only 8 (Blair and Schuylkill).

Red-throated Loon was found in Berks (1), and in Cambria, where Judy Johns found 13 RTLO associated with a flock of Common

Loons at Beaverdale Reservoir.

Al and Nancy Bilheimer found two Great Cormorants near Tullytown, Bucks, where the species is notable, yet not completely unexpected in spring. Least Bittern (3) was found in Berks only. Two rare but regular PAMC species, Little Blue Heron and Yellow-crowned Night-Heron, were notably absent from the count this year.

Vultures, Raptors

Mississippi Kite is becoming a PAMC regular in the southeast, where it was found for the third time in four years, this time in Bucks and Northampton. The Northampton MIKI was a first summer bird, found by Mike Schall at Jacobsburg State Park. The other was an adult female, observed well at Nockamixon State Park, in upper Bucks. The preponderance of recent spring records for this species in the southeastern corner is certainly of interest!

A new HC for Bald Eagle is indicative of the species' continued success in Pennsylvania. This year, 115 BAEA were found in 31 counties. Thirty were found in Lancaster alone, followed by 9 in Wayne. Other records were spread all over the state...great news! The five-year PAMC average for BAEA is 71/yr (2000-2004), while the ten-year average is 45.2/yr.

A mere 16 Northern Harriers in 8 counties was the lowest count since 1994 - again, likely due to the late date. Northern Goshawk put in a relatively good showing, with 5 birds in 4 counties. Two were found in Franklin. One, seen along Licking Creek by Delores Purnell and Florence Pyle, was very agitated, hopefully indicative of breeding activity. The other Franklin NOGO was observed at the feeders of Ken Gabler, in a wooded area west of Chambersburg.

Elsewhere in Franklin, a late Rough-legged Hawk was noted (for the second straight year) by Dan and Barb Higgins, Bill Oyler, and Lori Nichols in Amberson Valley. In Centre, Dorothy Bordner and Alison Norris reported a lingering RLHA in the George's Valley area.

There was one more exceptional raptor reported from Franklin (where a cool dozen raptor species was found for the day). The previously mentioned Purnell-Pyle team noted a Golden Eagle in the mountains of Buchanan State Park, one of three GOEA found in the state on 14 May. Another was found in the

far western end of Greene (Paul Braddock), and the third was in Indiana. Golden Eagle is a PAMC rarity, but three birds were also reported in 1998 (with two in Franklin that year).

Rounding out the raptor category, American Kestrel reports continued to decline, 195 birds being far below the five-year average of 241 per year.

Rails and shorebirds

Sandhill Crane was found in Butler (1), where they are somewhat expected, and in Luzerne (2), where they are not. Unfortunately, there was no PAMC report from Lawrence, where they've been most commonly found in recent years.

American Coot is an odd bird, both anatomically and statistically...at least according to PAMC results. This year, only five were reported. Last year, 88 were found, but only 3 were noted in 2003. PAMC reports for the species bounce back and forth like that regularly. This year's 5 coots were all seen in different counties.

It was an interesting year for shorebirds, with notable HCs established for three of the less common species found in PA. 158 Semipalmated Plovers were noted in 21 counties, including 70 in Bedford. There were 215 Dunlin in 6 counties, including 46 in Cambria, and 141 in Erie. Short-billed Dowitcher made an excellent showing of 134 in three flocks. Tom Dick reported 50 from the wetland he's created in northwestern Bedford. Another 51 were at Presque Isle in Erie, and 33 were reported from Westmoreland.

A lone Willet was reported from Bedford. As last year, the only report of Upland Sandpiper was from Venango, but just one bird this time. Single Ruddy Turnstone reports came from Erie's Presque Isle, and Cambria's Prince Gallitzin State Park, where Rory Bower described one mixed in with a flock of 17 Dunlin. Our only Sanderlings (3) were observed by Debbie Darney, on the sandy beach of Butler's Moraine State Park. Rounding out the semi-rarities, 3 White-rumped Sandpipers touched down on Lancaster's Conejohela Flats. In total, 19 shorebird species were found during PAMC '05.

Gulls and terns

Huge numbers of Laughing Gulls winter annually around the dump in Tullytown, Bucks County. If they stick around long enough to

be counted for the PAMC, they can account for a significant percentage of all birds found on the count. They stuck around this year: 15,057 LAGU were reported from lower Bucks. These birds (plus, for accuracy's sake, one in Philadelphia) accounted for over 6% of all birds found on the PAMC. Pretty impressive, but many PA birders (listers in particular) would trade all of them for this year's most unusual PAMC bird: while surveying Lancaster's Conejohela Flats, Bob Schutsky found an adult, breeding plumaged California Gull! This excellent gull was subsequently seen by several birders, documented with photographs, and stands as one of a scant few solid reports for the state!

Other highlights in this category include three Lesser Black-backed Gulls - two in Bucks, and, more notably, one in Erie. Tern numbers were slightly below average. The only Black Tern was found in Venango.

Doves through nightjars

Eurasian Collared-dove (3) was reported for the third time in four years, from Shady Grove, Franklin. Compiler Donna Hocker reports that local birders noted as many as six at this location in spring 2005. The size of the local population, while certainly small, remains a mystery.

Black-billed and Yellow-billed Cuckoos were found in numbers well above average this year. Black-billed Cuckoo (159) was found in 35 counties, with high counts in Westmoreland and Indiana (18 and 14, respectively). The max count for Yellow-billed was 42 in Bucks, where the previous PAMC high was just 11, according to compiler Diane Allison. Across the state, 350 YBCU were noted, blowing away the previous high of 213 in 2000!

Barn Owl reports hit a new low. Five were reported from Juniata, where they remain an annual PAMC find. The only other was of a single Barn Owl in Lebanon.

PAMC participants recorded 94.5 hours of nocturnal birding. Of our three most common owls, only Barred (66) was reported in numbers above the 5 and 10-year averages (63.8 and 49, respectively). Eastern Screech and Great Horned reports were both significantly below average. There were no reports of Northern Saw-whets for the first time since 1997. Effort to find them this year is unknown, but will hopefully increase in 2006 as folks concentrate on locating Saw-whets

for Pennsylvania's 2nd Breeding Bird Atlas.

Surprisingly, Long-eared Owl has never been reported with convincing detail on the PAMC...until now! Compiler Ramsay Koury's Cumberland report included news of two Long-eared Owls. They were found on private property; it is hoped that they were a breeding pair! Only slightly less rare, our only Short-eared Owl report this year came from Indiana.

Swifts through swallows

The total for Ruby-throated Hummingbird was officially average. Not just sort of average, or more or less average, but exactly average. 637 were found this year, matching the species' exact five-year PAMC average. To further expound upon the theme of PAMC hummer consistency, exactly 691 RTHU were reported in both 2003 and 2004. It's nice to report on a species that's constant and dependable!

There was speculation on the PABIRDS listserv in spring 2005 that the Belted Kingfisher population may have suffered a recent decline. Belted Kingfishers are early migrants, often arriving as soon as open water is available. As such, resident numbers are probably at or near peak by mid May. This year, 208 kingfishers were found in 47 counties.

The following table shows total kingfishers per year, then kingfishers per PAMC party hour each year, followed by kingfishers as a percentage of *all* birds recorded on PAMC each year.

Table 4. Occurrence of Belted Kingfisher on PAMC since 1996.

Year	Total	Birds/hr	% of all
1996	165	na	0.079%
1997	190	na	0.087%
1998	279	0.1290	0.138%
1999	na	na	na
2000	246	0.0897	0.121%
2001	177	0.0571	0.085%
2002	288	0.0879	0.111%
2003	298	0.0862	0.103%
2004	291	0.0846	0.115%
2005	208	0.0618	0.084%

Knowledge of party hours would be helpful for some of the earlier counts, but alas. So, based on PAMC observations, it seems that Belted Kingfisher numbers may have indeed been down a bit this year. The dip, however, doesn't appear to

be entirely out of step with past fluctuations (i.e. 2001). Geographically, they were distributed fairly evenly across the state. Top counts occurred in Lancaster (13) and Schuylkill (12).

Yellow-bellied Sapsucker was reported about half as frequently as it was last year, with 80 in 23 counties. Northern Flicker (1,068) was *well* below its PAMC average - odd for such an easily identifiable bird. Based on birds per hour (0.317), the species was at an all-time low on this year's count.

Olive-sided Flycatcher (12) was found in 11 counties. Only one Yellow-bellied Flycatcher was found, in Greene. Alder Flycatcher was found in particularly good numbers: 28 in 10 counties, including 9 in Wayne. Willow Flycatcher (212) was far above the five-year average of 76.8 per year!

Loggerhead Shrike was missed for the second straight year, but, with the exception of Franklin, PAMC participation tends to be low in the counties where it is most likely to be seen. Single shrikes were reported in '02 and '03, but it's been seven years since multiple birds have been found on the PAMC.

Two common birds were even more common on this year's count: both Red-eyed Vireo (4,918), and Blue Jay (7,800) set new PAMC records. Blue Jays must have been on the move that day - the total found was far above average. Not surprisingly, they were found in every county reporting.

Common Raven (215) was found in 30 counties. As in 2003, an amazing report was received from Jack Mitterer. On count day, Mr. Mitterer had 75 ravens at the feeding platform on his farm in northern Potter. Jack feeds scavengers through the colder months, which includes early May in Potter. 75 birds was far short of his seasonal max of 250 *Corvus corax*! 111 ravens were reported from here in 2003.

Chickadees through waxwings

Following an apparent recent population crash over winter 2002-2003, Carolina Wren reports (1,054) continued to rise. This year's bird per hour ratio was 0.313, compared to 0.287 in 2002, and 0.231 the previous year. Winter Wren was a new HC. Ninety were found, nearly half of which (43) were in McKean. The second highest count (9) was from Blair.

Golden-crowned Kinglet (50) tied its 1992 High Count, while Blue-gray Gnatcatcher (1,415) came in just under last year's HC. Nocturnal thrush counts were attempted in at least five counties, but no particularly large flights were noted.

During the week prior to the count, there was speculation on the state listserv that Cedar Waxwing numbers had been particularly low over the winter and early spring. The consensus among the group was that, while some were being seen in small numbers, CEWA seemed to have been largely absent. Let's see what the PAMC numbers were: Cedar Waxwing (1,096) was found in 42 counties, at a count ratio of 0.325 birds/hour. This total is well below the five-year average (1783.4 per year and 0.587 birds/hr), yet is more than double last year's PAMC low of just 525 birds.

Warblers

Of the 35 warbler species reported this year, 20 were found at or above PAMC average. There were new HCs for five species, most notably Blackpoll Warbler (420), which is a late migrant. The previous HC was 319 in 2000, when the count occurred on May 13th.

Reports of Prothonotary Warbler increase annually on the PAMC. This year, 18 were found in 7 counties: Berks, Bucks (4), Butler, Lancaster (8), Philadelphia, Westmoreland, and York (2). New HCs were also attained for Northern Waterthrush (198), Mourning Warbler (20), and Yellow-breasted Chat (169).

Blackburnian Warbler showed well, anchored by two great reports. In Warren, Scott Stoleson counted 59. In McKean, the next county to the east, John Fedak reported 135! More PAMC reports from this bird-rich area of the state would be wonderful!

Twelve Brewster's hybrids were found in 10 counties, with no Lawrence's reported. Of the true "winged" species, both were reported at a rate below average. Blue-winged Warbler (510) was found in 42 counties, but the bird per hour ratio was only 0.152. This same ratio, on average from 1998 to 2004 was 0.192 birds per hour. Golden-winged fared even worse. The average bird per hour ratio from 1998 to 2004 was 0.0247, compared to 0.0145 this year. Only 36 were found in 11 counties, the lowest total in years. The highest counts came from Blair (11), Huntingdon (7), and Perry (4).

Several participants were surprised to have blanked on Nashville Warbler this year. The species was certainly scarce on count day. Only 136 were found, far below average, and less than half of last year's total! The only double-digit counts were from Luzerne (19), Allegheny (18), and Schuylkill (10).

Tanagers through cardinal

No Summer Tanagers were found, only the fourth miss in count history, but the third miss since 2000. Scarlet Tanager (1,956) did well, however, with it's second highest showing ever.

Clay-colored Sparrow seems to be annual in Erie, where two were found. Vesper (40), Savannah (162) and Grasshopper Sparrow (149) were all reported well below average. In fact, the former two were each reported at an eleven-year low. Grasshopper Sparrow, anchored by 27 in Franklin, was at it's lowest total since 1997.

Blue Grosbeak (7) was seen in five counties, and Dickcissel (1) was found in Westmoreland.

Blackbirds through finches

Record counts were attained for Rusty Blackbird (110), Orchard Oriole (450) and Baltimore Oriole (3,899). Rusties were in six counties, including 89 in Erie, and 16 in Wyoming.

House Finch (1,622) declined for the fourth consecutive year. Similarly, there were "only" 4,198 House Sparrows reported this year, resulting in the lowest bird per hour ratio (1.276 / hr) of all years where such data are available!

One of the more unexpected reports this year came from Robert Bailey, who had two Common Redpolls at his feeders near Blackwell in southeastern Tioga. Robert had noted redpolls in April, as well as over the winter. This is the fifth PAMC report of the species, and the first since 2001.

The PAMC Future

The Pennsylvania Migration Count is at an interesting point in its existence. After many years of steady growth, participation seems to have leveled out. Compared to 2004, the number of participants was lower this year, yet field hours were nearly equivalent. It seems that those birders who remain dedicated to the count are more involved than ever, which is fantastic!

It has been noted that some former NAMC (with an 'N')

participants have embraced the fact that our PAMC is no longer part of a continent-wide effort as a reason to bail out. Such reaction seemed inevitable to some degree; fortunately, the fall-out has been limited, at least so far! Still, a few points for the consideration of those who may have been thusly influenced:

Full NAMC reports were never made available. No one knows where the information is or if it even exists. Pennsylvania's results, on the other hand, have been kept faithfully and published annually since 1992!

Outside of Pennsylvania, effort for the former NAMC was lame, to put it bluntly. While interesting, the concept of lumping Pennsylvania's migration count data with random bits of data from Michigan and Nova Scotia and Arizona never really made a whole lot of sense anyway. Perhaps it was a bold idea, ahead of its time.

Information of this sort is of the greatest significance at a local level! It seems kind of silly to abandon a perfectly valid and thriving state bird count due to the fact that other states aren't doing it too. But - to each his or her own...

As state compiler for the PAMC, I'm deeply grateful to all who've stuck with the count through the transition, and would encourage anyone who jumped ship to re-think the issue. To my knowledge, no count of this scale occurs anywhere else in the country at this time of year. As with any census, critics may find plenty of faults with the survey methods, but over the years, the data that we collect on the second Saturday of May establish a pretty good picture of the shape of spring birdlife in the state. While PAMC participation has come to rival that of our Christmas Bird Counts, it can only be hoped that our spring count will prove to be as long-lived!

Summary

As I read reports from some of the more remote locations within our state, I'm often amazed to be reminded of the numbers of what many have come to regard as 'unusual' species that occur in Pennsylvania's wild places! Reports from the northern tier counties can be particularly intriguing. Reports are rarely, if ever, received from certain high plateau counties (Forest, Jefferson, Elk, Cameron), or from those in the Pocono region (Pike, Monroe, Carbon, etc). It has been suggested that individuals or

bird clubs might take an interest in doing a little traveling on count day. This would be a welcomed effort! A truly solid PAMC report from a place like Cameron or Pike would be well worth an occasional birder exodus from one or two more established counties. A bird club trip of this sort might raise the interest of new (or bored) participants, and would definitely result in some neat sightings!

Again...many thanks to all who helped out with the count this year! The accumulated information is certainly of value!

Please note that next year's PAMC will take place on Saturday, 13 May, 2006. Please reserve the date!

Appendix. List of coordinators

Many thanks to the following people for making the PAMC possible. For contact info for the following PAMC county compilers / participants, please contact the state coordinator.

- Adams** - Peter Robinson
- Allegheny** - Carol and Fred McCullough
- Armstrong** - Margaret Higbee

- Bedford** - Ron Kidd
- Berks** - Matt Wlasniewski
- Blair** - Stan Kotala
- Bradford** - Trudy Gerlach
- Bucks** - Diane Allison
- Butler** - Gene Wilhelm
- Cambria** - Dave Gobert
- Carbon** - Rich and Barbara Rehrig
- Centre** - Bob Snyder
- Chester** - Martin Page
- Clarion** - Margaret Buckwalter
- Clearfield** - Steve Belin
- Clinton** - Wayne Laubscher
- Crawford** - Marvin Byler
- Cumberland** - Ramsay Koury
- Dauphin** - Jan Getgood, Carl and Nancy Juris
- Delaware** - Jim Lockyer
- Erie** - Ben Coulter
- Forest** - Flo McGuire
- Franklin** - Donna Hocker
- Fulton** - Dan Snell, Regina Reeder
- Greene** - Kathy Kern
- Huntingdon** - Doug Wentzel
- Indiana** - Margaret Higbee
- Juniata** - Elmer Petersheim, Linda Whitesel, Chad Kaufman
- Lackawanna** - Michael Carey
- Lancaster** - Bruce Carl
- Lawrence** - Linda Wagner
- Lebanon** - Randy Miller
- Lehigh** - Jon Levin

- Luzerne** - Jim Shoemaker
- Lycoming** - Dave Ferry
- McKean** - John Fedak
- Mercer** - Neil Troyer
- Mifflin** - Jesse Swarey, Margaret Kenep, Jay Zook
- Montgomery** - Bill Etter
- Montour** - Jon D. Beam
- Northampton** - Michael Schall
- Northumberland** - Deuane Hoffman
- Perry** - Mickey Wesler
- Philadelphia** - Doris McGovern
- Schuylkill** - Mike Ward
- Snyder** - Mick and Donna Brown
- Tioga** - Ann Vayansky
- Venango** - Russ States
- Washington** - Amy Taracido
- Wayne** - Voni and Joe Strasser
- Westmoreland** - Dick Byers
- Wyoming** - Bill Reid
- York** - Randy Phillips

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**Answer to Photo Quiz #8
 Rick Wiltraut**



Some species of small shorebirds (or "peeps" as they are collectively called) are notoriously difficult for many birders to identify, even when they get a "good" look. Aging these birds can be even more problematic. Most of these birds belong to the genus *Calidris*. There are several field marks that can help identify this group of shorebirds including bill shape and length and body proportions. Habitat and foraging techniques can also be useful in their identification as well. One identification mark, which can be useful in separating species in this group, is leg color.

All *Calidris* sandpipers that occur in North America have dark legs except for three species of stints (Temminck's, Long-toed, and Least Sandpiper), Pectoral Sandpiper and the very similar Sharp-tailed Sandpiper, the "rock" sandpipers (Purple and Rock), Red Knot, and Great Knot. These species have yellowish or greenish-yellow legs.

This bird appears to have dark legs. Also notice that as this bird stretches, it exhibits very long wings. Among *Calidris* species with dark legs, two species, the Baird's Sandpiper and White-rumped Sandpiper, have noticeably long wings, which at rest, extend beyond the tip of the tail and are very useful their identification. Notice this bird has a dark center through the tail which rules out White-rumped Sandpiper.

This Baird's Sandpiper was photographed on the beach at Bald Eagle State Park, Centre County.

PENNSYLVANIA MIGRATION COUNT May 14, 2005

	ADAM	ALLE	ARMS	BEDF	BERK	BLAI	BRAD	BUCK	BUTL	CAMB	CARB	CENT	CHES	CLAR	CLEA	CLIN	CRAW	CUMB
Snow Goose					30							1						
Canada Goose	32	205	28	233	629	68	164	923	165	55	23	144	254	15	26	30	79	182
Mute Swan				1	10			49					9					
Tundra Swan				4														1
Wood Duck	3	8		52	60	21	44	75	59	24		4	47	2	2		18	53
Gadwall								1										
American Black Duck								2	1			7						
Mallard	12	87	13	62	180	17	29	332	18	7	3	67	79	2	60	7	7	107
Blue-winged Teal		1		6				4					1					
Green-winged Teal																		
Ring-necked Duck		2						2										
Lesser Scaup																		
scaup sp.													3					
Bufflehead								3	4									
Common Goldeneye																		
Hooded Merganser								5										
Common Merganser					1		19	2	6		9			14				
Red-breasted Merganser										1								
Ruddy Duck								19					1					
Ring-necked Pheasant		1	2	10	1	12		3				3	3			1		2
Ruffed Grouse				4	1	8	2	1						1	6	1		
Wild Turkey		58	30	16	37	29	7	36	7	10		1		15	3			13
Northern Bobwhite												1		1				
Red-throated Loon					1					13								
Common Loon				1	2	2	2	1	1	9	3		6					2
Pied-billed Grebe					6			1										1
Double-crested Cormorant				2	36			274	8			1	24					1
Great Cormorant								2										
American Bittern																		
Least Bittern					3													
Great Blue Heron	5	24		14	17	4	13	59	10	5		3	12		5	3	3	12
Great Egret				4				1	1				4					2
Green Heron	2	5	1	10	6	4	1	15	4	2	1	3	7			2	2	5
Black-crowned Night-Heron																		8
Black Vulture	5			1	2			16					17					3
Turkey Vulture	10	11		94	119	26	31	166	12	9	7	10	102	19	11	4	2	55
Osprey				4	2	2	2	22	9	1			5					2
Mississippi Kite								1										
Bald Eagle				1	5		3	3	2			3	3					

PENNSYLVANIA MIGRATION COUNT May 14, 2005

	ADAM	ALLE	ARMS	BEDF	BERK	BLAI	BRAD	BUCK	BUTL	CAMB	CARB	CENT	CHES	CLAR	CLEA	CLIN	CRAW	CUMB
Bonaparte's Gull				1		1			11	1								
Ring-billed Gull		5		1	7		6	48	17	3				1		1		
California Gull																		
Herring Gull		13		1			420											
Lesser Black-backed Gull							2											
Great Black-backed Gull							8											
gull sp.		3																
Caspian Tern																		
Common Tern									2									
Forster's Tern				1					3	18								
Black Tern																		
Rock Pigeon		23	35	40	79	76	75	108	176	2	2	39	52	4	4	21	9	77
Eurasian Collared-Dove																		
Mourning Dove	20	120	25	147	207	22	111	394	35	120	16	58	131	26	59	40	19	105
Black-billed Cuckoo		9		7	2		1	3	6				5	4			2	2
Yellow-billed Cuckoo	1	15		10	25	4	1	42	8			1	9					15
Barn Owl																		
Eastern Screech-Owl		2		4	8	2		3	1				5					
Great Horned Owl				2	4	1		1	4	1			3		1			
Barred Owl					1	4			2	1			3					4
Long-eared Owl																		2
Short-eared Owl																		
Common Nighthawk		6		3	11	6		7										
Whip-poor-will				6		5												
Chimney Swift	16	182	23	76	146	26	28	129	103	40	12	46	87	61	9	13	2	51
Ruby-throated Hummingbird	2	8	4	99	21	12	9	13	9	21	1	4	9	5	7	11	1	10
Belted Kingfisher	1	2	1	11	12	9	5	8	4	1		1	7			1	1	4
Red-headed Woodpecker				7	2		1	2	4						1		2	2
Red-bellied Woodpecker	9	69	6	29	87	21	17	175	15	11	1	12	78	2	2	7	3	56
Yellow-bellied Sapsucker				2			8		2	3							1	
Downy Woodpecker	4	31	4	43	51	18	18	57	15	15	5	6	30	6	3	8	6	21
Hairy Woodpecker		11		11	17	6	8	17	8	4		1	4	3	3	6	3	2
Northern Flicker	1	40	4	36	43	11	18	69	10	11	4	16	45	16	8	7	4	32
Pileated Woodpecker	1	21		18	11	12	10	7	7	6	1	10	8	3	3	4	1	13
Olive-sided Flycatcher		2						1	1									
Eastern Wood-Pewee	6	14		3	29	16	2	20	8	3	1	2	28	1				15
Yellow-bellied Flycatcher																		
Acadian Flycatcher	4	29			5	16		3	10	2			14	1				2
Alder Flycatcher		3				2			5									

PENNSYLVANIA MIGRATION COUNT May 14, 2005																		
	ADAM	ALLE	ARMS	BEDF	BERK	BLAI	BRAD	BUCK	BUTL	CAMB	CARB	CENT	CHES	CLAR	CLEA	CLIN	CRAW	CUMB
Willow Flycatcher	1	4		1	4	8	1	5	16	2		2	13	5	2	1	2	4
Least Flycatcher		6		1		10	5	3	12	17	2	1	1	1	1	4	4	5
<i>Empid sp.</i>		2		2	1							2						
Eastern Phoebe	1	36		26	58	36	17	43	15	14	8	18	38	10	2	13	6	30
Great Crested Flycatcher	7	7		16	30	17	11	70	2	2	1	6	16	3	3	4	3	34
Eastern Kingbird	2	10		10	38	10	12	97	20	10	7	4	53	15		3	4	20
White-eyed Vireo	1	19		1	20	7		22	5	2			22					13
Blue-headed Vireo	6	6		1	1		9	2	2	12		2	1		1	1		2
Yellow-throated Vireo	5	5		7	7	6	7	12	3			2	9					2
Warbling Vireo	4	21		28	28	11	13	106	12	7	4	1	39	2		1	2	10
Philadelphia Vireo	2							1	2									
Red-eyed Vireo	20	168	8	49	273	34	31	306	31	45	33	72	109	41	10	14	8	101
Blue Jay	16	190	18	172	423	26	71	488	16	87	52	79	264	34	46	67	12	220
American Crow	3	146	31	99	199	94	105	216	39	104	37	74	118	63	28	63	32	77
Fish Crow					24	13		40				7	21					13
<i>crow sp.</i>													3					3
Common Raven	4			6	4	8	2			3		2		1	2	3		2
Horned Lark	2	1			0				3	1			2					4
Purple Martin	19			71	107			23	101			26	12					16
Tree Swallow	13	35	11	113	166	29	134	426	46	105	67	69	280		10	32	25	62
Northern Rough-winged Swallow	1	88		5	63	33	13	104	23	15		7	29		3	5		34
Bank Swallow				9	14		50	131	3	20	3	12	2				46	1
Cliff Swallow		9		26	94		19	26	243	71	63	28		17		101		
Barn Swallow	18	60	16	180	160	18	37	318	37	65	5	102	101	19	11	20	75	109
<i>swallow sp.</i>		1																
Carolina Chickadee	12	72			20			93					66					23
Black-capped Chickadee		25	4	58	15	26	57	15	17	59	6	22		48	23	15	23	10
<i>chickadee sp.</i>		21			53													4
Tufted Titmouse	15	109	8	51	84	18	27	192	15	15	9	39	68	18	4	17	7	59
Red-breasted Nuthatch		1		9	8	1						1					2	
White-breasted Nuthatch	3	29	3	22	21	14	17	37	5	20		8	20	8	2	2	3	11
Brown Creeper				1	6		3			2								
Carolina Wren	12	67		8	73	37	10	91	6		2	7	51			4		55
House Wren	17	41	5	24	91	19	29	176	17	30	15	45	70	12	10	11	13	62
Winter Wren						9	2									1		
Marsh Wren																		
Golden-crowned Kinglet				2				3										2
Ruby-crowned Kinglet		10			2			1				1	1					
Blue-gray Gnatcatcher	25	41		19	76	31	5	142	18	9	5		75			4		31

PENNSYLVANIA MIGRATION COUNT May 14, 2005

	ADAM	ALLE	ARMS	BEDF	BERK	BLAI	BRAD	BUCK	BUTL	CAMB	CARB	CENT	CHES	CLAR	CLEA	CLIN	CRAW	CUMB
Eastern Bluebird	8	34	12	43	48	61	16	72	5	21	4	14	62	11	7	11	11	48
Veery	2	9			37		5	67	7	5	1	1	56	3	2	1	3	
Gray-cheeked Thrush		2			1			2	1									
Swainson's Thrush	1	20			10			22	4			1	3	1		1		
Hermit Thrush		1			3		7	2	1	7						7		
Wood Thrush	20	136	9	34	218	44	41	257	23	16	3	36	143	38	11	33	19	83
thrush sp.		2																
American Robin	76	694	66	365	784	108	244	1402	128	157	40	215	320	99	64	184	85	324
Gray Catbird	24	116	9	65	507	66	58	862	17	37	90	115	389	40	17	49	32	182
Northern Mockingbird	14	33		17	57	13	3	78	3		2	8	57			1	4	33
Brown Thrasher	2	16		26	16	12	6	7	10	9	6	8	17	11		4		16
European Starling	35	277	17	302	531	166	145	756	106	71	17	138	205	53	48	84	19	251
American Pipit												1	1					
Cedar Waxwing	25	41		29	32	9	2	63	19	12		5	9	2	2	8		152
Blue-winged Warbler	1	19		2	26		3	46	16		1		26	4			3	12
Golden-winged Warbler				3		11								1				
Brewster's Warbler	1						1											
Tennessee Warbler		22		1		7		1	47					1			2	
Orange-crowned Warbler									2									
Nashville Warbler	1	18			4	2			3				3					3
Northern Parula	2	4		4	33	2	1	55	1		2	2	25	1		9		8
Yellow Warbler	11	149	2	35	106	24	112	360	44	39	23	84	145	47	4	53	32	59
Chestnut-sided Warbler		36		11	15	6	24	12	18	32		31	14	20	4	9	3	20
Magnolia Warbler	1	61		2	9	18	1	25	10	6	1	5	5	4	2	1	2	11
Cape May Warbler		1						4										
Black-throated Blue Warbler	1	20		10	25		3	63	2	2		6	18	2		5	1	7
Yellow-rumped Warbler	6	52		5	58	12	19	107	8	8	1	6	24	2		4	4	14
Black-throated Green Warbler		33		11	30	37	28	17	12	19	5	28	8	19		20		15
Blackburnian Warbler		33		5	6	14	2	6	10			6				6		7
Yellow-throated Warbler	1	4							3									
Pine Warbler				1	6			4			1							6
Prairie Warbler	1	6			8		3	64	3		18	1	12		1			10
Palm Warbler					1				1									
Bay-breasted Warbler		18			2	8		3	6					2				1
Blackpoll Warbler	7	7		9	16	5		86	4			1	18	1				22
Cerulean Warbler		11		1	2	14		10				1		7		1		2
Black-and-white Warbler		29		12	60	12	3	47	22	2	9	4	7		3	8		7
American Redstart	9	55		15	67	37	27	129	25	10	5	7	42	13	1	28	5	22
Prothonotary Warbler					1			4	1									

PENNSYLVANIA MIGRATION COUNT May 14, 2005																		
	ADAM	ALLE	ARMS	BEDF	BERK	BLAI	BRAD	BUCK	BUTL	CAMB	CARB	CENT	CHES	CLAR	CLEA	CLIN	CRAW	CUMB
Worm-eating Warbler		2		6	23			11	1		1	6						3
Ovenbird	6	21		41	215	48	50	207	36	47	16	34	91	20	16	20	1	41
Northern Waterthrush	4				10		1	33	10		1	5	8					2
Louisiana Waterthrush	6	9			20	14	3	12	2			1	9			3		1
Kentucky Warbler		12		5	1			2	4				3					3
Mourning Warbler								1	1									1
Common Yellowthroat	8	46	2	99	134	49	49	329	42	38	24	93	164	61	3	38	43	56
Hooded Warbler		66	2		29			3	16	3		4		18		6	6	22
Wilson's Warbler		1			2				2		1			1				3
Canada Warbler		5		1	3		2	5		2	1		1					1
Yellow-breasted Chat		8		2	8	2		5	1			4	7	1				11
Scarlet Tanager	7	116		46	83	46	18	86	16	18	2	17	49	19	6	14	5	27
Eastern Towhee	21	218	9	127	103	57	25	126	36	52	10	97	101	42	21	25	5	66
American Tree Sparrow				2					1						1			
Chipping Sparrow	23	110	14	81	144	84	67	107	117	106	24	68	68	43	13	53	22	79
Clay-colored Sparrow																		
Field Sparrow	13	67		27	49	47	25	42	24	16	7	38	30	13	8	6	25	27
Vesper Sparrow		3							1	3								
Savannah Sparrow		4		3	1		2	7	20	2		2	1	3				
Grasshopper Sparrow		6		1	1		2	4	10	1	2	1	4	6		2		11
Henslow's Sparrow		2							2	1				9				
Fox Sparrow																	1	
Song Sparrow	15	207	2	46	143	88	129	232	35	23	30	44	161	36	21	60	27	107
Lincoln's Sparrow		1							1									
Swamp Sparrow				14	1	28	4	38	14	2		4	10	5			6	
White-throated Sparrow	9	11		7	13	21	3	7	3	4		1	11			5	1	17
White-crowned Sparrow	1	13		15	3	12	5	2	16	3	1	3				4	1	2
Dark-eyed Junco				1	2	2	16	2		8		3		7		1	1	
Northern Cardinal	34	363	20	126	241	61	67	410	63	33	20	89	199	31	20	29	27	43
Rose-breasted Grosbeak	4	46	11	28	23	19	36	43	25	32	2	7	12	23	8	8	10	6
Blue Grosbeak								1										
Indigo Bunting	2	82	3	36	151	31	10	41	13	20	1	16	40	10	3	8	5	67
Dickcissel																		
Bobolink		3		18	16		64	84	9	6	6		117	55			11	9
Red-winged Blackbird	16	295	48	185	280	56	312	820	125	223	67	136	315	141	39	45	185	174
Eastern Meadowlark	3	5		22	7	20	14	8	16	8	8	2	35	11	3		3	20
Rusty Blackbird							1	1										
Common Grackle	32	193	71	200	613	101	207	569	135	61	20	150	192	15	70	253	21	409
Brown-headed Cowbird	11	76		92	105	21	19	247	24	54	9	7	61	2	7	18	6	57

PENNSYLVANIA MIGRATION COUNT May 14, 2005

	ADAM	ALLE	ARMS	BEDF	BERK	BLAI	BRAD	BUCK	BUTL	CAMB	CARB	CENT	CHES	CLAR	CLEA	CLIN	CRAW	CUMB	
<i>blackbird</i> sp.																			
Orchard Oriole		28		9	22			38	10		1	35	25						6
Baltimore Oriole	17	152	9	91	200	44	87	300	21	35	18		164	17	7	16	24		119
Purple Finch			2	29	7	7	14		13	1				15	4		3		
House Finch	22	50	6	43	56	46	44	114	26	8	4	26	43		12	17	5		78
Common Redpoll																			
Pine Siskin										3		1			2	3			
American Goldfinch	39	201	15	96	228	70	111	285	44	56	16	43	105	31	37	52	21		77
House Sparrow	5	102	5	101	153	105	94	229	108	36	11	45	56	10	10	41	5		92
Total birds	922	6859	628	4908	10059	2788	3610	31177	3222	2592	952	2850	6418	1542	855	1819	1145		4913
Total species	96	139	46	141	152	113	114	152	160	116	79	119	126	93	71	89	81		128
Total participants	15	54	6	36	36	17	25	61	10	19	3	7	25	5	9	7	3		18
Subtotal - feeder watchers	0		3	19	3	0	2	0	1	6	0		0		3	1			0
Subtotal - nocturnal	1		0	4	3	4	2	6	1	2			2		0	2			0
Total Hours	36.5	139	18.5	183.5	141	40	96.05	188.5	25	74.5	5.5	42.25	82	25	32.5	32.5	10		66
Subtotal - feeder	0	5.5	6.5	37	12	4	0.14		1	29.5			0	4	11	8			0
Subtotal - nocturnal	1	0.5		5	5	4	6	4	1	2			3		0	1			0
Hours/observer	2.43	2.57	3.08	5.10	3.92	2.35	3.84	3.09	2.50	3.92	1.83	6.04	3.28	5.00	3.61	4.64	3.33		3.67
Miles foot, approx:	7	75.5	4	67.5	42	60	36.25	94	3	21	2	17	44	5.5	4.5	10	5.5		23
Miles car, other:	31	165	20	186.5	266	100	291.70	318	172	128	28	151.5	173	74	33	55	21		378
Total miles:	38	240.5	24	254	308	160	327.95	412	175	149	30	168.5	217	79.5	37.5	65	26.5		401

PENNSYLVANIA MIGRATION COUNT May 14, 2005

	DAUP	DELA	ERIE	FORE	FRAN	FULT	GREE	HUNT	INDI	JUNI	LACK	LANC	LEBA	LEHI	LUZE	LYCO	MCKE	MERC	
Snow Goose												22	37		5				
Canada Goose	267	77	28	71	418	29	308	75	336	182	150	791	1016	60	303	44	58		14
Mute Swan	1								2			3	2				2		
Tundra Swan												1							
Wood Duck	47	6	6	1	16	34	13	5	39	109	23	88	30	2	29	18	21		8
Gadwall																			
American Black Duck					2		2					2	2						
Mallard	100	10	17	5	219	5	46	9	75	117	97	322	116	10	86	40	16		1
Blue-winged Teal									2			3	1						
Green-winged Teal	1														1				
Ring-necked Duck															1				
Lesser Scaup															1				

PENNSYLVANIA MIGRATION COUNT May 14, 2005																		
	DAUP	DELA	ERIE	FORE	FRAN	FULT	GREE	HUNT	INDI	JUNI	LACK	LANC	LEBA	LEHI	LUZE	LYCO	McKE	MERC
scap sp.																		
Bufflehead	1		1							1		1						
Common Goldeneye												1						
Hooded Merganser					2					9		2						
Common Merganser					3				1		6	8	3		5	15	19	
Red-breasted Merganser			15						1	1		2						
Ruddy Duck																		
Ring-necked Pheasant	3				10	2	8		4	5	1	4	3		1			1
Ruffed Grouse				2					5	1	3				3		6	3
Wild Turkey	4			3	10	1	75	8	40	10	14	5	7		16	1	19	2
Northern Bobwhite		1																
Red-throated Loon																		
Common Loon		4	3		1	1	1		5			9		1	1			
Pied-billed Grebe						2	1								1	1		
Double-crested Cormorant	27	70	200		1				23	11	5	104	8	4	9	4		3
Great Cormorant																		
American Bittern												1	1			1		
Least Bittern																		
Great Blue Heron	14	6	7	1	8	1	45	3	31	7	16	54	5	10	12	4	3	3
Great Egret	25		3							2		7	1					
Green Heron	15	1	3		13		1	5	8	16	4	7	5		13	1	5	3
Black-crowned Night-Heron	1									1		1						
Black Vulture	11	5			6	2		2		24		72	19		4			
Turkey Vulture	49	30	5	11	157	27	182	29	51	108	51	254	55	23	55	14	39	3
Osprey					1		2	2	3	7	1	13	1	1	5	1	6	1
Mississippi Kite																		
Bald Eagle	2			1	1			1		3		30	1		3	4	3	1
Northern Harrier					3				2				1					
Sharp-shinned Hawk	2	1			5		1		3	3	4	5		2	1		1	2
Cooper's Hawk	6	1	1		6		5	1	4	1	1	4			9		1	1
Northern Goshawk					2		1					1						
<i>Accipiter sp.</i>	1												1	2				
Red-shouldered Hawk	2				1	2		3	2	4	1		6	1			1	
Broad-winged Hawk	1			1	2	1		3	4	3	7	2	1	1	6		1	
Red-tailed Hawk	50	14	1		49	2	43	6	22	33	13	47	18	26	14	1	4	3
Rough-legged Hawk					1													
<i>Buteo sp.</i>	1																	
Golden Eagle					1		1		1									
American Kestrel	5			1	15	1	9	2	6	18	7	10	2	1	2	3	2	1

PENNSYLVANIA MIGRATION COUNT May 14, 2005

	DAUP	DELA	ERIE	FORE	FRAN	FULT	GREE	HUNT	INDI	JUNI	LACK	LANC	LEBA	LEHI	LUZE	LYCO	McKE	MERC
Merlin			2						1									
Peregrine Falcon															4			
Virginia Rail			1									1			2		6	3
Sora			1									1			1		7	1
Common Moorhen			3									1						2
American Coot									1	1								
Sandhill Crane															2			
Semipalmated Plover	4		1	16			10		3		3	15	7		3			
Killdeer	16		12	5	83	9	39	6	57	39	18	38	28	3	20	5	9	3
Greater Yellowlegs	1		1				2	2	7			4	6	2			1	
Lesser Yellowlegs	4		3	5		3	4		2		3	14	6	1	4			2
Solitary Sandpiper	11		1		24	1	3	2	9	45	37	39	26	1	37	5	3	1
Willet																		
Spotted Sandpiper	13	3	13	3	19	1	7	5	29	166	12	66	6	8	12	9	7	2
Upland Sandpiper																		
Ruddy Turnstone			1															
Sanderling																		
Semipalmated Sandpiper	1		3		1				3		1	1	6		2			
Least Sandpiper	25		4	10	16		4	8	5		44	165	17	10	45		3	
<i>peep sp.</i>					1													
White-rumped Sandpiper												3						
Pectoral Sandpiper	1				10							5			1		2	
Dunlin			141						2			21						
Short-billed Dowitcher			51															
Wilson's Snipe				3					1			1			2		15	
American Woodcock			6	1					10	1	1	14	3				15	
Laughing Gull																		
Bonaparte's Gull			2									12						
Ring-billed Gull	65	5	400						19	26		2179	13	2	5	1		
California Gull												1						
Herring Gull		15	250									3			3			
Lesser Black-backed Gull			1															
Great Black-backed Gull			100									4						
<i>gull sp.</i>									1									
Caspian Tern			27									1						
Common Tern			3						23			2						
Forster's Tern			1						1			1					1	
Black Tern																		
Rock Pigeon	36	14		1	271	30	36	13	53	231	35	173	130	20	69	23	23	6

PENNSYLVANIA MIGRATION COUNT May 14, 2005																		
	DAUP	DELA	ERIE	FORE	FRAN	FULT	GREE	HUNT	INDI	JUNI	LACK	LANC	LEBA	LEHI	LUZE	LYCO	McKE	MERC
Eurasian Collared-Dove					3													
Mourning Dove	112	52	6	18	338	20	176	36	330	136	136	190	131	59	124	42	47	9
Black-billed Cuckoo	9		1	1	8	2	5	3	14	5	6	3	4	1	4		4	3
Yellow-billed Cuckoo	11			1	28		3	3	17	29	2	21	5	1	6		2	1
Barn Owl										5			1					
Eastern Screech-Owl		1			4			1		9		5			1		4	
Great Horned Owl	1				3			1	2	3		2	3	1	2		4	
Barred Owl					4		7		2	9		1	1			3	13	
Long-eared Owl																		
Short-eared Owl									1									
Common Nighthawk					1			1	2			7				4		
Whip-poor-will			3	1	5		1		2	7						3		
Chimney Swift	42	34	4	3	205	72	160	6	709	153	32	154	50	1	42	15	73	9
Ruby-throated Hummingbird	18	6	1	2	38	1	32	4	59	29	8	19	6	1	7	5	8	3
Belted Kingfisher	5	3	3	2	11	1	4		5	11	3	13	4	2	3	2	8	1
Red-headed Woodpecker			1		13		1					1	2					3
Red-bellied Woodpecker	70	37		2	127	9	63	7	70	97	4	96	47	25	11	4	41	3
Yellow-bellied Sapsucker	1			1							1				6	2		1
Downy Woodpecker	31	9	4	3	55	1	27	4	48	69	16	37	20	24	18	4	19	3
Hairy Woodpecker	7	5			20		9	2	14	20	16	8	12	5	8	1	11	3
Northern Flicker	28	15	5	2	71	3	35	10	67	40	19	49	23	10	32		12	8
Pileated Woodpecker	17	4	1		25	2	9	5	24	38	7	27	6	3	2	3	5	2
Olive-sided Flycatcher	1								1	1							1	1
Eastern Wood-Pewee	25	3	1	2	35	2	33	6	17	30	2	31	18	5	2	2	3	2
Yellow-bellied Flycatcher							1											
Acadian Flycatcher		4		1	3	1	39	2	16	10		5	4					4
Alder Flycatcher				1					2						1		3	
Willow Flycatcher	2	3	2		3	1	11	4	13	3	2	15	7	1		1		4
Least Flycatcher	1		16	5	12		1	4	10	7	8	2		1	7	20	49	5
<i>Empid sp.</i>	2									3								
Eastern Phoebe	56	2		8	78	4	73	13	111	54	24	31	19	8	23	14	27	3
Great Crested Flycatcher	33	6	7		68	5	14	14	13	97	8	49	21	5	17	3	2	10
Eastern Kingbird	18	13	56		59	3	37	8	18	47	28	82	17	4	4	10	1	2
White-eyed Vireo	12	1			2		28		5	1		18	25	1				1
Blue-headed Vireo	5	1	7	5	6			1	43	28	4		1	2	5	5	97	1
Yellow-throated Vireo	2	3			6	5	15	4	7	110	4	6	3		3		1	6
Warbling Vireo	14	11	13		14		31	1	7	17	19	28	2	4	5	4	7	1
Philadelphia Vireo										226	2				1		2	1
Red-eyed Vireo	140	38	25	27	379	50	114	63	325	400	99	177	231	28	43	23	82	7

PENNSYLVANIA MIGRATION COUNT May 14, 2005

	DAUP	DELA	ERIE	FORE	FRAN	FULT	GREE	HUNT	INDI	JUNI	LACK	LANC	LEBA	LEHI	LUZE	LYCO	McKE	MERC
Blue Jay	372	57	172	26	427	7	165	45	406	224	143	828	222	97	122	53	38	10
American Crow	128	41	9	33	218	35	417	74	433	8	172	196	53	66	188	90	109	17
Fish Crow	10	2			16							91	29	1	15	2		
<i>crow sp.</i>	14											38						
Common Raven	2			3	7		1	3	5	9	1		2		4	3	24	
Horned Lark	7				10	2			27			7	4	1				3
Purple Martin		10			33		44			134		208	30				3	50
Tree Swallow	121	65	250	18	177	20	107	22	238	113	147	318	255	40	145	75	52	6
Northern Rough-winged Swallow	34	8	4	4	63	2	29	2	45	61	31	33	5	4	31	4	15	4
Bank Swallow	18		300	5	3			4	4			200			12	15	3	9
Cliff Swallow				25				32	2	4		43	1		7	35	106	1
Barn Swallow	49	18	200	20	410	58	295	63	299	260	178	279	45	62	85	52	64	8
<i>swallow sp.</i>	5		2000										2					
Carolina Chickadee	11	17					65					69	10					
Black-capped Chickadee	16		3	18	65	4		15	166	43	80	1	11	16	73	23	119	7
<i>chickadee sp.</i>	39											3						
Tufted Titmouse	70	48		16	105	10	67	32	170	120	33	77	39	33	55	15	26	6
Red-breasted Nuthatch			13	1				1	1			2		1			14	
White-breasted Nuthatch	9	11		4	43	1	40	3	56	39	21	19	15	14	13	4	17	1
Brown Creeper				1	1			3	2						7		11	
Carolina Wren	49	24		1	62	7	49	8	28	68	5	50	31	29	16	6	2	1
House Wren	42	28	12	2	102	6	55	27	67	48	33	61	46	27	18	15	11	5
Winter Wren				6	2		1	1	1		1	1	1		2	1	43	1
Marsh Wren			2															1
Golden-crowned Kinglet					4			1							1	4	16	
Ruby-crowned Kinglet	3		4		2			1	1	1		3	2		1	3		
Blue-gray Gnatcatcher	27	24	14	3	56	17	28	14	57	57	2	164	64	7	17	3	27	8
Eastern Bluebird	46	16		3	118	3	103	6	68	53	19	54	17	7	34	17	2	3
Veery	2	9	9	2	3			4	5	4	10	88	28	7	15		1	5
Gray-cheeked Thrush												1					1	1
Swainson's Thrush	5	3	3		4				20	6		4	4				4	1
Hermit Thrush			1	6	4		2		8	2	12		5		8	20	39	
Wood Thrush	92	64	6	2	135	19	155	44	304	110	41	228	190	52	35	14	8	20
<i>thrush sp.</i>																		
American Robin	304	196	75	46	889	113	668	70	1216	552	413	495	378	112	271	267	165	15
Gray Catbird	304	138	50	9	266	71	119	31	262	318	106	474	514	91	85	54	29	8
Northern Mockingbird	25	13	1		98	16	32	3	8	26	8	45	12	7	6	10		1
Brown Thrasher	13		5	1	58	2	26	13	33	35	15	18	7	1	9	23		2
European Starling	134	34	75	42	765	40	466	68	607	364	276	484	413	63	163	133	85	25

PENNSYLVANIA MIGRATION COUNT May 14, 2005																		
	DAUP	DELA	ERIE	FORE	FRAN	FULT	GREE	HUNT	INDI	JUNI	LACK	LANC	LEBA	LEHI	LUZE	LYCO	McKE	MERC
American Pipit			80		18							4			2			
Cedar Waxwing	70	20	6	4	37	8	6		42	129	21	37	20		15	50	44	6
Blue-winged Warbler	31	5	2	2	5		33	3	24	4	32	36	18	5	5		4	8
Golden-winged Warbler	1				1			7										
<i>Brewster's Warbler</i>	1							1		1	2							
Tennessee Warbler	4						1	1	7		10	2	1	1	2		5	12
Orange-crowned Warbler	1		1						1									
Nashville Warbler	2		8		3		3		6	1	6	2	3	2	19	3	7	5
Northern Parula	2	12	8	2	5	3	10	3	5	8		31	9	1	1	6	5	5
Yellow Warbler	84	27	400	19	71	6	222	17	209	88	47	63	55	23	86	51	53	13
Chestnut-sided Warbler	10	4	18	17	8	1	3	2	36	11	12	25	15	3	10	12	98	5
Magnolia Warbler	21	3	14	11	8	1	3	4	46	12	4	29	10	2	2	4	39	8
Cape May Warbler			3	2													1	
Black-throated Blue Warbler	11	4	19	4	9	2		3	6	10	3	37	53		6	17	23	2
Yellow-rumped Warbler	20	3	65	2	31		4	2	20	22	3	64	14	7	59	6	44	5
Black-throated Green Warbler	24	1	9	32	44	1	1	11	111	29	43	23	44	1	17	48	149	7
Blackburnian Warbler	8		3	22	2		2	4	14	8	7	30	13		11	20	135	3
Yellow-throated Warbler					3		6	2	2			3						
Pine Warbler					1	2		2	3			1	1	2	10			
Prairie Warbler	25	1			2	6	9	3	18	5	24	7	2	1	12	2	1	
Palm Warbler			60				1		2			1				1	2	
Bay-breasted Warbler	2		5		5		3		8			4	3	2			5	3
Blackpoll Warbler	16	12			10				4	16	2	44	13	2	7	1	2	4
Cerulean Warbler					5	2	25		16	7		5		3			12	1
Black-and-white Warbler	15	8	18	6	8	1	15		18	18	14	40	32	5	3	13	3	6
American Redstart	54	13	30	6	22	12	75	12	103	75	30	51	46	18	26	6	92	6
Prothonotary Warbler												8						
Worm-eating Warbler	27				4		1	1	3	21		16	4	3	3			
Ovenbird	110	8	7	43	158	7	48	64	229	103	102	204	260	25	69	32	56	4
Northern Waterthrush	2	2	5		5			1	1	36	3	11	8	4	2		5	3
Louisiana Waterthrush	11	1			13	5	12	5	14	14	1	16	20	1	2	3	7	1
Kentucky Warbler	6					1	13	2	11			8	3					1
Mourning Warbler										2		1	1				7	2
Common Yellowthroat	133	39	29	17	76	27	178	62	316	116	105	139	161	28	46	43	84	10
Hooded Warbler	44		2	3	18	1	27	5	88	9	1	6	17	6		10	11	8
Wilson's Warbler	5	3							1	4		5	3				3	3
Canada Warbler	5			1	2			8	2	7	3	15	6				10	
Yellow-breasted Chat	14				6	2	31	1	3	5		13	4		1			
Scarlet Tanager	39	11	3	19	110	15	83	25	159	94	38	108	63	16	36	13	13	9

PENNSYLVANIA MIGRATION COUNT May 14, 2005

	DAUP	DELA	ERIE	FORE	FRAN	FULT	GREE	HUNT	INDI	JUNI	LACK	LANC	LEBA	LEHI	LUZE	LYCO	McKE	MERC
Eastern Towhee	109	14	20	15	149	13	218	48	358	89	29	70	66	13	34	25	47	8
American Tree Sparrow					5													
Chipping Sparrow	70	16	50	43	248	40	134	24	411	160	154	109	44	36	113	49	143	7
Clay-colored Sparrow			2															
Field Sparrow	65		12	7	40	13	96	19	90	37	53	44	23	13	17	23	44	7
Vesper Sparrow				1	14			2	1			1		2				2
Savannah Sparrow			15	1	6	4	5	1	7	4	6	9	3	1	2	5	4	1
Grasshopper Sparrow			1		27	3	3	1	13	1	2	12	1	1	4	3	2	
Henslow's Sparrow									18									2
Fox Sparrow					2													
Song Sparrow	86	65	25	20	162	14	178	27	319	308	122	164	54	39	61	62	56	12
Lincoln's Sparrow			6					1	1		2	1			1			
Swamp Sparrow		1	13		2		1	2	6		8	16	3		12	1	17	10
White-throated Sparrow	13	5	30	1	53		5		16	21	16	35	42	8	8		17	1
White-crowned Sparrow	3		75	1	10		9	2	6	5	1	3	3		9		7	1
Dark-eyed Junco				2			2		19	1	8				2	13	90	
Northern Cardinal	164	90	5	7	307	16	239	22	305	260	69	297	136	53	65	39	28	14
Rose-breasted Grosbeak	23	3	26	16	13	2	40	8	166	34	36	18	10	21	14	6	36	7
Blue Grosbeak												2						
Indigo Bunting	97	5	17	9	111	9	141	25	141	149	27	163	87	17	41	15	25	8
Dickcissel																		
Bobolink	23		55	12	10		24		10	4	81	31	13	6	33	17	9	4
Red-winged Blackbird	186	105	60	83	540	57	549	90	907	619	406	392	142	56	203	183	123	12
Eastern Meadowlark	11			1	53	13	44	7	62	23	7	13	11	2	5	15	18	5
Rusty Blackbird			85							1							6	
Common Grackle	231	30	40	39	934	29	189	77	777	1383	159	728	275	84	224	161	162	10
Brown-headed Cowbird	59	33	85	4	156	1	174	10	89	122	55	185	132	25	60	14	39	8
<i>blackbird sp.</i>																		
Orchard Oriole	9	3	1		19	3	51	7	12	39		37	4	1	1	1		4
Baltimore Oriole	122	58	25	11	181	25	129	35	173	338	76	162	77	38	39	42	28	9
Purple Finch				2	3		1		34	1	12				12		31	2
House Finch	59	54	2	6	119	8	67	3	150	24	28	43	21	17	18	17	33	2
Common Redpoll																		
Pine Siskin			1	8					14								18	
American Goldfinch	59	73	75	19	267	7	84	21	268	194	94	154	123	42	82	35	113	7
House Sparrow	61	45	1	28	367	51	140	17	219	137	102	236	157	13	84	19	52	10
Total birds	5675	2117	6220	1051	11656	1180	8050	1683	13509	10348	4821	14314	7018	1770	4201	2395	3931	679
Total species	133	94	126	99	152	92	124	119	161	138	118	174	143	109	140	109	140	128

PENNSYLVANIA MIGRATION COUNT May 14, 2005

	MIFF	MONR	MONTG	NORH	PERR	PHIL	PIKE	POTT	SCHU	SNYD	SUSQ	TIOG	VENA	WARR	WASH	WAYN	WEST	WYOM	YORK
Common Loon		1		1		1			6			1	2						4
Pied-billed Grebe									2										
Double-crested Cormorant			1	7		142			3			50	1			2		12	18
Great Cormorant																	1		
American Bittern																			
Least Bittern																			
Great Blue Heron	2	1		6		18	2		10	1	8	68	13		2	27	23	7	7
Great Egret						4													4
Green Heron	1	1	1	7		8			5	3		6	2	1		4	10	1	5
Black-crowned Night-Heron																			21
Black Vulture	4			7	2	2			6	2									7
Turkey Vulture	45	19	1	64	3	14	2		125	9		41	16	1	13	68	51	19	59
Osprey		2		10	1	1			4			12				4	5		1
Mississippi Kite				1															
Bald Eagle		4		4		2	4	3	1			4	5	1		9	1	1	6
Northern Harrier	1											1							
Sharp-shinned Hawk		1	1	3	2	1			5	1			1	1		1	2	1	
Cooper's Hawk	3			3	1	3			4		1	3					8		
Northern Goshawk																1			
Accipiter sp.																			
Red-shouldered Hawk	1				3				3				3	3		1	1		
Broad-winged Hawk		2		3	2				19			2				4	5		2
Red-tailed Hawk	10	5	2	25	7	8		1	43	4	1	4	8	1	3	14	56	38	15
Rough-legged Hawk																			
Buteo sp.																			
Golden Eagle																			
American Kestrel	4			7		1			12	4		4	1	5	1	4	10	3	7
Merlin																			
Peregrine Falcon				1															
Virginia Rail				1					1			6	2				1		
Sora																			
Common Moorhen																			
American Coot																			
Sandhill Crane																			
Semipalmated Plover				3								1			4		6		3
Killdeer	29	9		13		10		4	45	4	13	25	17		4	18	74	20	10
Greater Yellowlegs		1		2		2			1										
Lesser Yellowlegs		1		4		5			8	1			1				1		1
Solitary Sandpiper	2	7		30		7	1	13	8	5		11	4	4	6	3	8	3	7

PENNSYLVANIA MIGRATION COUNT May 14, 2005

	MIFF	MONR	MONTG	NORH	PERR	PHIL	PIKE	POTT	SCHU	SNYD	SUSQ	TIOG	VENA	WARR	WASH	WAYN	WEST	WYOM	YORK	
Willie																				
Spotted Sandpiper	3	3		12		7			37	4	2	10	3	1	1	4	25	4	26	
Upland Sandpiper													1							
Ruddy Turnstone																				
Sanderling																				
Semipalmated Sandpiper						31					12						3			
Least Sandpiper		5		143		7					4				2		6		44	
<i>peep sp.</i>																	3			
White-rumped Sandpiper																				
Pectoral Sandpiper												2								6
Dunlin				2		1											1			
Short-billed Dowitcher																				
Wilson's Snipe															1	1	2			
American Woodcock									2		4		2	1		2	1	6		
Laughing Gull						1														
Bonaparte's Gull																				
Ring-billed Gull				6		172			3			27	4				3		40	
California Gull																				
Herring Gull						10						5								
Lesser Black-backed Gull																				
Great Black-backed Gull						2														
<i>gull sp.</i>																				
Caspian Tern																				
Common Tern													2							10
Forster's Tern						1														
Black Tern																				1
Rock Pigeon	81	8		96		31		5	123	13		72	9		42	127	63	75		
Eurasian Collared-Dove																				
Mourning Dove	39	13	30	112	13	119		26	194	14	22	49	12	7	10	125	208	40	132	
Black-billed Cuckoo	6								8		2				1	1	18	1	2	
Yellow-billed Cuckoo	10	1			5	6			9	6			1			14	25	2	10	
Barn Owl																				
Eastern Screech-Owl	2			4		1			3							1	1			
Great Horned Owl				2		2			4	1	2							2		
Barred Owl				2					1	2		2	1			1	1		1	
Long-eared Owl																				
Short-eared Owl																				
Common Nighthawk				17		11			1			1	1				2		1	
Whip-poor-will	4			1	1				9								3			

PENNSYLVANIA MIGRATION COUNT May 14, 2005

	MIFF	MONR	MONTG	NORH	PERR	PHIL	PIKE	POTT	SCHU	SNYD	SUSQ	TIOG	VENA	WARR	WASH	WAYN	WEST	WYOM	YORK
Chimney Swift	36	31	14	56	4	313			104	13	5	14	29		3	44	204	33	123
Ruby-throated Hummingbird	13	4	1	8	4	7		2	25		2	12	2	3	1	14	37	4	5
Belted Kingfisher	1	1	1	1	1	1		1	12	2		4	1			11	10	9	3
Red-headed Woodpecker	2	1															1		4
Red-bellied Woodpecker	21	4	10	36	11	39			56	4		4	8	3	1	12	106	16	41
Yellow-bellied Sapsucker		1			1	1		3	2		1	11	1	4		22	1	4	
Downy Woodpecker	5	2	3	22	2	29			43	5	2	12	1	3		17	34	26	17
Hairy Woodpecker	3	1	2	3	2	8			21		2	5	2			18	18	3	2
Northern Flicker	13	3	6	14	4	30		2	40	12	3	14	10	4	2	18	62	19	8
Pileated Woodpecker	11	5		4	5	2	1		17	1	1	1	1	3		10	19	6	
Olive-sided Flycatcher		1				1							1						
Eastern Wood-Pewee	10			7	3	6			13		1		2	3	3	6	48	7	16
Yellow-bellied Flycatcher																			
Acadian Flycatcher	2			1		4			5				2		2	1	40		10
Alder Flycatcher													1			9	1		
Willow Flycatcher				3		14			1			1	1		8	2	38		1
Least Flycatcher	3	1		2		1			19		14	1	1	5	38	8	8	25	
<i>Empid sp.</i>			2	1															1
Eastern Phoebe	16	10	2	15	5	4	2	2	58	5	24	11	14	3	5	32	66	18	9
Great Crested Flycatcher	16	5		14	2	19			43	1	2	3	1		1	28	12	18	23
Eastern Kingbird	2	3	6	15	1	36		2	29	2	9	4	8	1	5	37	22	9	20
White-eyed Vireo				2		5									3		21		5
Blue-headed Vireo	6	3		2		1		6	17	12	4	2	2	8	22	6	9	6	6
Yellow-throated Vireo	1	1				1			7				2	1	25	5	6	8	8
Warbling Vireo		2	6	23		66			1			4			6	12	28	17	22
Philadelphia Vireo			1								1			1					
Red-eyed Vireo	79	17	10	37	16	57		3	434	13	9	17	24	36	8	143	261	78	72
Blue Jay	163	29	52	147	197	58	8	4	485	22	18	119	25	18	7	126	249	67	311
American Crow	62	31	3	142	21	23	3	29	378	12	40	117	27	24	16	244	291	163	68
Fish Crow	1			12		3			3	3					2				7
<i>crow sp.</i>																			
Common Raven	4							75	2			25				3	2	3	
Horned Lark	3			7				1	6								3		
Purple Martin	44	6		1		1			100								10		58
Tree Swallow	14	26	8	66	5	602		12	169	28	46	148	40	10	2	227	113	74	79
Northern Rough-winged Swallow	4	10	4	19	6	40			57		3	5	13	2		10	115	16	41
Bank Swallow		4				6			105		3	14	50			75		11	
Cliff Swallow		22				1		20	53		3		12	6	34	10			7
Barn Swallow	83	19	1	116		79		26	358	25	32	155	38	6	7	222	255	42	41

PENNSYLVANIA MIGRATION COUNT MAY 14, 2005

	MIFF	MONR	MONTG	NORH	PERR	PHIL	PIKE	POTT	SCHU	SNYD	SUSQ	TIOG	VENA	WARR	WASH	WAYN	WEST	WYOM	YORK
<i>swallow sp.</i>											60							49	
Carolina Chickadee			11			52									4		39		22
Black-capped Chickadee	17	29		24	5	1	3	13	152	3	13	36	16	14		276	60		6
<i>chickadee sp.</i>																	15		
Tufted Titmouse	24	19	10	39	19	43		1	141	4	2	11	14	19	6	48	145	36	27
Red-breasted Nuthatch						1			4			2		4		3			1
White-breasted Nuthatch	9	7	1	10	4	7		3	44			14	3	7	2	44	32	15	7
Brown Creeper									6							5		1	
Carolina Wren	6		2	14	1	47			30	4		3	2		2	1	45	7	31
House Wren	12	3	9	40	3	55			65	4	2	8	9	2	2	26	75	13	22
Winter Wren									1				5	3		1	5	1	1
Marsh Wren						22													
Golden-crowned Kinglet			4						10									2	1
Ruby-crowned Kinglet		2				1			18			1					1	2	1
Blue-gray Gnatcatcher	17	10	14	24	9	33			90	7	2	4	4	9	2	6	43	11	64
Eastern Bluebird	25	2	3	24	4	4		2	79	11	1	20	11		9	21	69	24	18
Veery	2	2	3	12		18		5	38		5	3	3	4		18	4	7	8
Gray-cheeked Thrush	1			2															
Swainson's Thrush	2	1	1	1	1	12			2					5		1	4		
Hermit Thrush	1		5	1		1		4	8		2	2	2	2		12	5	2	1
Wood Thrush	45	5	16	57	7	43			145	10	10	8	11	8	13	11	268	52	79
<i>thrush sp.</i>																			
American Robin	112	22	33	235	13	324	6	45	690	68	70	136	58	34	52	497	1563	313	230
Gray Catbird	35	18	49	227	9	316	3	2	323	16	10	24	22	26	5	79	220	97	137
Northern Mockingbird	21	2	2	14	5	18			37	7					8		54		34
Brown Thrasher	12	1		4		10		2	21	6		10	1		2	5	23	7	9
European Starling	58	33	15	132	6	105		201	430	143	22	112	26	13	35	210	833	97	216
American Pipit				9															
Cedar Waxwing	4		4	8					24			27	11	3		6	71	7	6
Blue-winged Warbler	1	6	1	7	6				31		2		11	7	1	4	25	4	28
Golden-winged Warbler					4				3		1		3				1		
<i>Brewster's Warbler</i>						1			2				1				1		
Tennessee Warbler	3	1							8			1		1		2	8		4
Orange-crowned Warbler																			
Nashville Warbler	2	7		1	1	1			10				3				6	1	
Northern Parula		11	20	4		51			28				3	3		5	20	2	21
Yellow Warbler	20	9	3	80	3	147		4	91	30	26	37	32	16	27	161	284	179	40
Chestnut-sided Warbler	14	3	2	6		8		5	77		18	4	14	12	1	55	29	22	4
Magnolia Warbler	10	4	4	2	8	9		2	37	2		2	20	28		22	22	2	19

PENNSYLVANIA MIGRATION COUNT May 14, 2005

	MIFF	MONR	MONTG	NORH	PERR	PHIL	PIKE	POTT	SCHU	SNYD	SUSQ	TIOG	VENA	WARR	WASH	WAYN	WEST	WYOM	YORK	
Cape May Warbler		1																		
Black-throated Blue Warbler	4	8	10	7	1	31	2		30	2	1			11		16	22		12	
Yellow-rumped Warbler	9	17	13	26	4	47		3	47		1	21	6		2	25	15	3	50	
Black-throated Green Warbler	20	8		8	2	6		2	106	14	12	9	15	19		81	65	23	7	
Blackburnian Warbler	13	2		2		6			21	8		1	12	59		6	13	1	1	
Yellow-throated Warbler	1			1									2		1		11			
Pine Warbler		1		1		1			13							16		1	2	
Prairie Warbler	26	4		5	8	4			22	3	3					9	1	10	7	
Palm Warbler											4	2					1			
Bay-breasted Warbler	2	1		2		6			8	1						1	1		1	
Blackpoll Warbler	2		9	3		60			7	3	3	2				1	4	1	19	
Cerulean Warbler	1	9		2					3				7	3	2	3	14			
Black-and-white Warbler	25	9	3	10	2	22			133	4	4	1	10	2		45	29	3	6	
American Redstart	19	20	23	27	1	61			86	8	10	13	12	41	3	44	76	72	40	
Prothonotary Warbler						1											1		2	
Worm-eating Warbler	4	2	2	1	3				23	3	1					1		1	6	
Ovenbird	44	21	7	31	19	12	1	8	476	33	20	18	15	3		127	49	86	26	
Northern Waterthrush	1	2	3	3		18			2					1		2		2	2	
Louisiana Waterthrush	1	3		4	5	2		1	21	5	3		9	1	1	2	12	4	9	
Kentucky Warbler									1						3		29		4	
Mourning Warbler					1	1											1			
Common Yellowthroat	45	12	13	49	11	102	5	1	206	20	28	49	13	7	19	97	262	93	38	
Hooded Warbler	1	9		2	5	4			38	1	1	1	7	14	2		101		2	
Wilson's Warbler	4		1	1		1			1				1			2	3	4		
Canada Warbler	2	3				4			10				2			2	1		1	
Yellow-breasted Chat	13				3												17		7	
Scarlet Tanager	37	12	8	23	12	17			132	5	3	5	16	13	5	45	138	19	37	
Eastern Towhee	63	3	8	29	8	19		5	157	13	5	10	27	1	11	39	337	25	44	
American Tree Sparrow												4								
Chipping Sparrow	37	22	3	57	13	14		12	235	15	21	33	22	31	6	111	229	91	38	
Clay-colored Sparrow																				
Field Sparrow	49			23	7	2		3	64	18	12	5	11		5	6	113	17	29	
Vesper Sparrow	1			3					1	2						1		2		
Savannah Sparrow	3			1		1		6	1		1		4		5	2	13	6		
Grasshopper Sparrow	1			1					2	3	4						11	1	1	
Henslow's Sparrow													4				4	1		
Fox Sparrow																				
Song Sparrow	67	7	5	63	9	109	3	9	161	13	23	83	20	15	28	103	367	85	31	
Lincoln's Sparrow									2											

PENNSYLVANIA MIGRATION COUNT MAY 14, 2005

	MIFF	MONR	MONTG	NORH	PERR	PHIL	PIKE	POTT	SCHU	SNYD	SUSQ	TIOG	VENA	WARR	WASH	WAYN	WEST	WYOM	YORK
Swamp Sparrow		2		2		13	3	1				45	7	1		8	7	10	1
White-throated Sparrow	7	1	1	9		9			44			7				6	4	2	6
White-crowned Sparrow	1			2					9			2	1	4		2	8	10	
Dark-eyed Junco	1							12	4	5	8	17	3	15		23	12	3	
Northern Cardinal	49	9	29	79	22	81		2	193	18	2	45	22	16	14	42	375	80	133
Rose-breasted Grosbeak	9	4	2	14		6		2	44		9	15	18	5	3	22	121	25	1
Blue Grosbeak						2											1		1
Indigo Bunting	83	3	5	23	29	8		5	147	3	1	11	14	3	17	18	205	31	78
Dickcissel																	1		
Bobolink		8		17	1	14		18	7		225	35	24	4	1	120	11	169	3
Red-winged Blackbird	121	23	5	126	9	241	13	127	475	40	115	271	150	22	68	617	968		112
Eastern Meadowlark	7			4				2	5	1	3	6	9		9	14	61	252	4
Rusty Blackbird									1									16	
Common Grackle	180	14	5	311	18	62	1	29	548	43	3	90	51	15	30	112	521		201
Brown-headed Cowbird	48	10	5	49	17	110	1	13	121	5	5	31	5	6		40	129	182	95
<i>blackbird sp.</i>																		39	
Orchard Oriole	8	1		10		30			2	2			3		4		19	1	4
Baltimore Oriole	49	22	18	110	7	108		1	137	23	6	29	9	13	5	71	220	90	92
Purple Finch		5	2					5	9		4	16	2	5		37	1	3	
House Finch	15	6	14	30	2	29		6	95	3	4	15	2	1	5	11	66	23	24
Common Redpoll												2							
Pine Siskin																			
American Goldfinch	73	39	25	67	4	106	7	20	172	10	50	121	33	19	7	119	104	131	58
House Sparrow	89	11	20	29	1	143		17	378	19	16	37	28		8	47	389	44	75
Total birds	2610	928	680	3970	671	5202	85	880	10890	1005	1209	2929	1375	769	611	5839	12601	3659	4202
Total species	120	110	73	134	77	134	22	63	150	80	85	110	121	86	76	126	154	116	131
Total participants	16	11	3	11	3	20	1	1	39	3	3	24	5	4	2	11	36	9	10
Subtotal - feeder watchers		0		0					11	0		6			0	0	3		0
Subtotal - nocturnal		0		1	1				8	1	2	0			0	0	2	1	1
Total Hours	93	12	13	63.5	17	65	5	12	256	9	12.75	55	17	21	4.5	54	134.75	65	47.5
Subtotal - feeder		0	1	0					28	0		8		0	0	2	2		45.5
Subtotal - nocturnal		0		3	0.5				9.5	2	0.75			0	0	0	1.5		2
Hours/observer	5.81	1.09	4.33	5.77	5.67	3.25	5.00	12.00	6.56	3.00	4.25	2.29	3.40	5.25	2.25	4.91	3.74	7.22	4.75
Miles foot. approx:	18	4	5.5	27	9	32		2	88	4	1	7	2	3.5	1	12	73	11	22
Miles car. other:	40	101	24	154	14	12		93	420.5	75	118	149	118.4		40	352	718	363	288
Total miles:	58	105	29.5	181	23	44		95	508.5	79	119	156	120.4	3.5	41	364	791	374	310

NORTH AMERICAN MIGRATION COUNT - MAY 14, 2005

	Tota*	Birds / Hour (3367 hrs)	Birds / Hour Avg 1998-2004	# of Counts (of 55 tot)	Max Count	High County
	**					
Snow Goose	101	0.0300	0.0313	8	37	LEBA
Canada Goose	9641	2.8634	3.7553	54	1016	LEBA
Mute Swan	129	0.0383	0.0245	17	49	BUCK
Tundra Swan	6	0.0018	0.0011	3	4	BEDF
Wood Duck	1218	0.3617	0.3145	46	109	JUNI
Gadwall	2	0.0006	0.0019	2	1	1
American Black Duck	18	0.0053	0.0112	7	7	CENT
Mallard	3090	0.9177	1.0376	54	332	BUCK
Blue-winged Teal	18	0.0053	0.0089	7	6	BEDF
Green-winged Teal	2	0.0006	0.0048	2	1	2
Ring-necked Duck	7	0.0021	0.0044	5	2	3
Lesser Scaup	15	0.0045	0.0083	1	15	ERIE
scaup sp.	4	0.0012	0.0001	2	3	CHES
Bufflehead	11	0.0033	0.0064	6	4	CAMB
Common Goldeneye	1	0.0003	0.0001	1	1	LANC
Hooded Merganser	42	0.0125	0.0141	8	11	WARR
Common Merganser	163	0.0484	0.0536	23	25	WAYN
Red-breasted Merganser	20	0.0059	0.0248	5	15	ERIE
Ruddy Duck	20	0.0059	0.0438	2	19	BUTL
Ring-necked Pheasant	102	0.0303	0.0421	27	12	BLAI
Ruffed Grouse	75	0.0223	0.0416	26	8	4
Wild Turkey	639	0.1898	0.2007	43	75	GREE
Northern Bobwhite	9	0.0027	0.0046	6	3	WEST
Red-throated Loon	14	0.0042	0.0007	2	13	CAMB
Common Loon	71	0.0211	0.0520	26	9	5
Pied-billed Grebe	15	0.0045	0.0092	8	6	BERK
Double-crested Cormorant	1051	0.3121	0.3048	29	274	BUCK
Great Cormorant	2	0.0006	0.0001	1	2	BUCK
American Bittern	4	0.0012	0.0029	4	1	6
Least Bittern	3	0.0009	0.0004	1	3	BERK
Great Blue Heron	614	0.1824	0.2248	48	68	TIOG
Great Egret	58	0.0172	0.0236	12	25	DAUP
Green Heron	225	0.0668	0.0680	45	16	JUNI
Black-crowned Night-Heron	32	0.0095	0.0512	5	21	YORK
Black Vulture	219	0.0650	0.0750	22	72	LANC
Turkey Vulture	2381	0.7072	0.7380	52	254	LANC
Osprey	133	0.0395	0.0447	31	22	BUCK

	Tota*	Birds / Hour (3367 hrs)	Birds / Hour Avg 1998-2004	# of Counts (of 55 tot)	Max Count	High County
	**					
Mississippi Kite	2	0.0006	0.0002	2	1	7
Bald Eagle	115	0.0342	0.0208	31	30	LANC
Northern Harrier	16	0.0048	0.0124	8	4	CLAR
Sharp-shinned Hawk	73	0.0217	0.0241	34	6	BLAI
Cooper's Hawk	102	0.0303	0.0268	31	9	8
Northern Goshawk	5	0.0015	0.0010	4	2	FRAN
Accipiter sp.	4	0.0012	0.0015	3	2	LEHI
Red-shouldered Hawk	50	0.0149	0.0150	23	6	LEBA
Broad-winged Hawk	102	0.0303	0.0346	30	19	SCHU
Red-tailed Hawk	858	0.2548	0.2548	53	68	BUCK
Rough-legged Hawk	2	0.0006	0.0002	2	1	9
Buteo sp.	3	0.0009	0.0011	3	1	10
Golden Eagle	3	0.0009	0.0003	3	1	11
American Kestrel	195	0.0579	0.0837	42	18	JUNI
Merlin	5	0.0015	0.0007	4	2	ERIE
Peregrine Falcon	8	0.0024	0.0035	4	4	LUZE
Virginia Rail	35	0.0104	0.0092	15	7	CHES
Sora	16	0.0048	0.0115	8	7	McKE
Common Moorhen	8	0.0024	0.0029	4	3	ERIE
American Coot	5	0.0015	0.0176	5	1	12
Sandhill Crane	3	0.0009	0.0005	2	2	LUZE
Semipalmated Plover	158	0.0469	0.0106	21	70	BEDF
Killdeer	971	0.2884	0.3063	47	83	FRAN
Greater Yellowlegs	64	0.0190	0.0284	21	16	BUCK
Lesser Yellowlegs	106	0.0315	0.0387	28	14	LANC
Solitary Sandpiper	443	0.1316	0.1022	43	45	JUNI
Willet	1	0.0003	0.0002	1	1	BEDF
Spotted Sandpiper	724	0.2150	0.2109	48	166	JUNI
Upland Sandpiper	1	0.0003	0.0021	1	1	VENA
Ruddy Turnstone	2	0.0006	0.0003	2	1	13
Sanderling	3	0.0009	0.0006	1	3	BUTL
Semipalmated Sandpiper	79	0.0235	0.0190	15	31	PHIL
Least Sandpiper	855	0.2539	0.1882	30	165	LANC
peep sp.	4	0.0012	0.0096	2	3	WEST
White-rumped Sandpiper	3	0.0009	0.0006	1	3	LANC
Pectoral Sandpiper	33	0.0098	0.0064	11	10	FRAN
Dunlin	215	0.0639	0.0113	8	141	ERIE

	Tota* **	Birds / Hour (3367 hrs)	Birds / Hour Avg 1998-2004	# of Counts (of 55 tot)	Max Count	High County
Short-billed Dowitcher	134	0.0398	0.0016	3	51	ERIE
Wilson's Snipe	30	0.0089	0.0098	11	15	McKE
American Woodcock	90	0.0267	0.0260	22	15	McKE
Laughing Gull	15058	4.4722	1.5576	2	15057	BUCK
Bonaparte's Gull	28	0.0083	0.0195	6	12	LANC
Ring-billed Gull	3059	0.9085	0.9123	26	2179	LANC
California Gull	1	0.0003	0.0000	1	1	LANC
Herring Gull	722	0.2144	0.2358	10	420	BUCK
Lesser Black-backed Gull	3	0.0009	0.0009	2	2	BUCK
Great Black-backed Gull	114	0.0339	0.0192	4	100	ERIE
gull sp.	4	0.0012	0.0065	2	3	ALLE
Caspian Tern	28	0.0083	0.0081	2	27	ERIE
Common Tern	42	0.0125	0.0125	6	23	INDI
Forster's Tern	27	0.0080	0.0172	8	18	CAMB
Black Tern	1	0.0003	0.0018	1	1	YORK
Rock Pigeon	2731	0.8111	1.1347	47	271	FRAN
Eurasian Collared-Dove	3	0.0009	0.0001	1	3	FRAN
Mourning Dove	4782	1.4203	1.6795	54	394	BUCK
Black-billed Cuckoo	159	0.0472	0.0295	35	18	WEST
Yellow-billed Cuckoo	350	0.1040	0.0480	36	42	BUCK
Barn Owl	6	0.0018	0.0048	2	5	JUNI
Eastern Screech-Owl	62	0.0184	0.0270	20	9	JUNI
Great Horned Owl	52	0.0154	0.0222	24	4	14
Barred Owl	66	0.0196	0.0185	22	13	McKE
Long-eared Owl	2	0.0006	0.0000	1	2	CUMB
Short-eared Owl	1	0.0003	0.0003	1	1	INDI
Common Nighthawk	82	0.0244	0.0192	17	17	NORH
Whip-poor-will	54	0.0160	0.0356	15	9	SCHU
Chimney Swift	3840	1.1405	1.0755	52	709	INDI
Ruby-throated Hummingbird	637	0.1892	0.1867	53	99	BEDF
Belted Kingfisher	208	0.0618	0.0891	47	13	LANC
Red-headed Woodpecker	50	0.0149	0.0179	18	13	FRAN
Red-bellied Woodpecker	1685	0.5004	0.4676	51	175	BUCK
Yellow-bellied Sapsucker	80	0.0238	0.0315	23	22	WAYN
Downy Woodpecker	956	0.2839	0.3091	52	69	JUNI
Hairy Woodpecker	335	0.0995	0.0909	44	21	SCHU
Northern Flicker	1068	0.3172	0.4129	53	71	FRAN
Pileated Woodpecker	403	0.1197	0.1140	49	38	JUNI
Olive-sided Flycatcher	12	0.0036	0.0017	11	2	ALLE

	Tota* **	Birds / Hour (3367 hrs)	Birds / Hour Avg 1998-2004	# of Counts (of 55 tot)	Max Count	High County
Eastern Wood-Pewee	492	0.1461	0.1150	45	48	WEST
Yellow-bellied Flycatcher	1	0.0003	0.0010	1	1	GREE
Acadian Flycatcher	242	0.0719	0.0702	30	40	WEST
Alder Flycatcher	28	0.0083	0.0035	10	9	WAYN
Willow Flycatcher	212	0.0630	0.0216	40	38	WEST
Least Flycatcher	339	0.1007	0.0794	42	49	McKE
Empid sp.	18	0.0053	0.0068	10	3	JUNI
Eastern Phoebe	1220	0.3623	0.3839	53	111	INDI
Great Crested Flycatcher	792	0.2352	0.2364	49	97	JUNI
Eastern Kingbird	933	0.2771	0.2557	51	97	BUCK
White-eyed Vireo	242	0.0719	0.0874	25	28	GREE
Blue-headed Vireo	357	0.1060	0.0952	42	97	McKE
Yellow-throated Vireo	285	0.0846	0.0708	33	110	JUNI
Warbling Vireo	626	0.1859	0.1639	42	106	BUCK
Philadelphia Vireo	240	0.0713	0.0050	11	226	JUNI
Red-eyed Vireo	4918	1.4606	1.0843	54	434	SCHU
Blue Jay	7800	2.3166	1.6402	55	828	LANC
American Crow	5509	1.6362	2.2924	55	433	INDI
Fish Crow	315	0.0936	0.1275	21	91	LANC
crow sp.	58	0.0172	0.0352	4	38	LANC
Common Raven	215	0.0639	0.0390	30	75	POTT
Horned Lark	94	0.0279	0.0482	19	27	INDI
Purple Martin	1107	0.3288	0.3738	23	208	LANC
Tree Swallow	5461	1.6219	2.3371	53	602	PHIL
No. Rough-winged Swallow	1147	0.3407	0.3995	47	115	WEST
Bank Swallow	1132	0.3362	0.4348	30	300	ERIE
Cliff Swallow	1121	0.3329	0.3021	31	243	BUTL
Barn Swallow	5301	1.5744	2.0766	53	410	FRAN
swallow sp.	2117	0.6287	0.0276	6	2000	ERIE
Carolina Chickadee	586	0.1740	0.2177	16	93	BUCK
Black-capped Chickadee	1751	0.5200	0.5667	48	276	WAYN
chickadee sp.	135	0.0401	0.0371	6	53	BERK
Tufted Titmouse	2285	0.6786	0.8586	53	192	BUCK
Red-breasted Nuthatch	70	0.0208	0.0200	19	14	McKE
White-breasted Nuthatch	744	0.2210	0.2435	50	56	INDI
Brown Creeper	49	0.0146	0.0159	13	11	McKE
Carolina Wren	1054	0.3130	0.2778	44	91	BUCK
House Wren	1642	0.4877	0.5055	53	176	BUCK
Winter Wren	90	0.0267	0.0094	22	43	McKE

	Tota*	Birds / Hour (3367 hrs)	Birds / Hour Avg 1998-2004	# of Counts (of 55 tot)	Max Count	High County
Marsh Wren	25	0.0074	0.0058	3	22	PHIL
Golden-crowned Kinglet	50	0.0149	0.0136	12	16	McKE
Ruby-crowned Kinglet	62	0.0184	0.0472	22	18	SCHU
Blue-gray Gnatcatcher	1415	0.4203	0.3621	47	164	LANC
Eastern Bluebird	1384	0.4110	0.5602	52	118	FRAN
Veery	523	0.1553	0.1426	44	88	LANC
Gray-cheeked Thrush	12	0.0036	0.0027	9	2	15
Swainson's Thrush	147	0.0437	0.0359	29	22	BUCK
Hermit Thrush	183	0.0544	0.0627	32	39	McKE
Wood Thrush	3471	1.0309	1.1895	53	304	INDI
thrush sp.	2	0.0006	0.0024	1	2	ALLE
American Robin	16101	4.7820	5.0111	55	1563	WEST
Gray Catbird	7222	2.1449	2.0743	55	862	BUCK
Northern Mockingbird	836	0.2483	0.2732	41	98	FRAN
Brown Thrasher	540	0.1604	0.1532	45	58	FRAN
European Starling	10145	3.0131	4.2286	54	833	WEST
American Pipit	115	0.0342	0.0671	7	80	ERIE
Cedar Waxwing	1096	0.3255	0.5331	42	152	CUMB
Blue-winged Warbler	510	0.1515	0.1924	42	46	BUCK
Golden-winged Warbler	36	0.0107	0.0247	11	11	BLAI
Brewster's Warbler	12	0.0036	0.0017	10	2	16
Tennessee Warbler	155	0.0460	0.0288	26	47	BUTL
Orange-crowned Warbler	6	0.0018	0.0006	5	2	BUTL
Nashville Warbler	136	0.0404	0.0568	30	19	LUZE
Northern Parula	433	0.1286	0.1213	42	55	BUCK
Yellow Warbler	4052	1.2034	1.1064	54	400	ERIE
Chestnut-sided Warbler	819	0.2432	0.2201	49	98	McKE
Magnolia Warbler	578	0.1717	0.1398	51	61	ALLE
Cape May Warbler	12	0.0036	0.0068	6	4	BUTL
Black-throated Blue Warbler	531	0.1577	0.1691	44	63	BUCK
Yellow-rumped Warbler	990	0.2940	0.7631	49	107	BUCK
Black-thrd Green Warbler	1274	0.3784	0.4362	48	149	McKE
Blackburnian Warbler	522	0.1550	0.1159	38	135	McKE
Yellow-throated Warbler	40	0.0119	0.0170	13	11	WEST
Pine Warbler	74	0.0220	0.0257	19	16	WAYN
Prairie Warbler	344	0.1022	0.1079	37	64	BUCK
Palm Warbler	76	0.0226	0.0191	11	60	ERIE
Bay-breasted Warbler	103	0.0306	0.0221	26	18	ALLE
Blackpoll Warbler	420	0.1247	0.0403	35	86	BUCK

	Tota*	Birds / Hour (3367 hrs)	Birds / Hour Avg 1998-2004	# of Counts (of 55 tot)	Max Count	High County
Cerulean Warbler	169	0.0502	0.0618	27	25	GREE
Black-and-white Warbler	756	0.2245	0.2584	47	133	SCHU
American Redstart	1730	0.5138	0.5000	52	129	BUCK
Prothonotary Warbler	18	0.0053	0.0031	7	8	LANC
Worm-eating Warbler	183	0.0544	0.0806	29	27	DAUP
Ovenbird	3435	1.0202	1.2551	53	476	SCHU
Northern Waterthrush	198	0.0588	0.0338	33	36	JUNI
Louisiana Waterthrush	289	0.0858	0.0856	43	21	SCHU
Kentucky Warbler	112	0.0333	0.0387	19	29	WEST
Mourning Warbler	20	0.0059	0.0031	12	7	McKE
Common Yellowthroat	3957	1.1752	1.3621	55	329	BUCK
Hooded Warbler	619	0.1838	0.1490	41	101	WEST
Wilson's Warbler	55	0.0163	0.0139	23	5	17
Canada Warbler	105	0.0312	0.0352	27	15	LANC
Yellow-breasted Chat	169	0.0502	0.0454	24	31	GREE
Scarlet Tanager	1956	0.5809	0.5726	52	159	INDI
Eastern Towhee	3270	0.9712	1.0891	54	358	INDI
American Tree Sparrow	13	0.0039	0.0068	5	5	FRAN
Chipping Sparrow	4084	1.2070	1.2890	54	411	INDI
Clay-colored Sparrow	2	0.0006	0.0005	1	2	ERIE
Field Sparrow	1431	0.4250	0.4470	49	113	WEST
Vesper Sparrow	40	0.0119	0.0233	16	14	FRAN
Savannah Sparrow	162	0.0481	0.0940	37	20	BUTL
Grasshopper Sparrow	149	0.0443	0.0731	35	27	FRAN
Henslow's Sparrow	43	0.0128	0.0259	9	18	INDI
Fox Sparrow	3	0.0009	0.0015	2	2	FRAN
Song Sparrow	4381	1.3012	1.4168	55	367	WEST
Lincoln's Sparrow	16	0.0048	0.0056	9	6	ERIE
Swamp Sparrow	318	0.0944	0.1010	36	45	TIOG
White-throated Sparrow	480	0.1426	0.2922	40	53	FRAN
White-crowned Sparrow	255	0.0757	0.1456	37	75	ERIE
Dark-eyed Junco	283	0.0841	0.0919	29	90	McKE
Northern Cardinal	5203	1.5453	1.5223	54	410	BUCK
Rose-breasted Grosbeak	1122	0.3332	0.4021	52	166	INDI
Blue Grosbeak	7	0.0021	0.0021	5	2	18
Indigo Bunting	2310	0.6861	0.6394	54	205	WEST
Dickcissel	1	0.0003	0.0001	1	1	WEST
Bobolink	1387	0.4119	0.4615	42	225	SUSQ
Red-winged Blackbird	11678	3.4684	3.9604	54	968	WEST

	Tota*	Birds / Hour (3367 hrs)	Birds / Hour Avg 1998-2004	# of Counts (of 55 tot)	Max Count	High County
Eastern Meadowlark	852	0.2530	0.2794	45	252	WYOM
Rusty Blackbird	111	0.0330	0.0001	7	85	ERIE
Common Grackle	11078	3.2902	0.0051	54	1383	JUNI
Brown-headed Cowbird	2939	0.8729	3.8209	53	247	BUCK
<i>blackbird sp.</i>	39	0.0116	0.8889	1	39	WYOM
Orchard Oriole	450	0.1337	0.0997	35	51	GREE
Baltimore Oriole	3899	1.1580	1.0991	53	338	JUNI
Purple Finch	282	0.0838	0.0988	30	37	WAYN
House Finch	1622	0.4817	0.7586	53	150	INDI
Common Redpoll	2	0.0006	0.0014	1	2	TIOG
Pine Siskin	50	0.0149	0.0229	8	18	McKE
American Goldfinch	4409	1.3095	1.9254	55	285	BUCK
House Sparrow	4298	1.2765	1.6735	53	389	WEST
Total birds	247992	73.6537	*	*	31177	BUCK
Total species	234	*	*	*	174	LANC
Total participants	956	*	*	*	74	FRAN
Subtotal - feeder watchers	115	*	*	*	29	INDI
Subtotal - nocturnal	91	*	*	*	13	JUNI
Total Hours	3367	*	*	*	256	SCHU
Subtotal - feeder	377	*	*	*	70.75	INDI
Subtotal - nocturnal	94.5	*	*	*	10	LANC
Hours/observer	3.52	*	*	*	13.5	ERIE
Miles foot, approx:	1273.1	*	*	*	94	BUCK
Miles car, other:	9979.1	*	*	*	718	WEST
Total miles:	11252.2	*	*	*	791	WEST

Codes for Multiple Counts in High Column

- 1 BUTL, PHIL
- 2 DAUP, LUZE
- 3 ALLE, BUTL
- 4 BLAI, SCHU
- 5 CAMB, LANC
- 6 LANC, LEBA, LYCO, WEST
- 7 BUCK, NORH
- 8 BUCK, LUZE
- 9 CENT, FRAN
- 10 CLEA, CLIN, DAUP
- 11 FRAN, GREE, INDI
- 12 BEDF, BERK, CENT, INDI, JUNI
- 13 CAMB, ERIE
- 14 BERK, BUTL, McKE, SCHU
- 15 ALLE, BUCK, NORH
- 16 LACK, SCHU
- 17 DAUP, LANC
- 18 LANC, PHIL

** BOLD = New High