

Observations from the 2003 North American Migration Count

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Overview

May 10, 2003 marked Pennsylvania's twelfth year of involvement in the North American Migration Count (NAMC), and for the twelfth straight year, participation continued to grow. Despite lousy weather across much of the state, 1,035 birders got out in the field and counted! This total exceeds our previous record of 1,017, which was set in 2002 under near-perfect weather conditions. Data was received this year from 61 of Pennsylvania's 67 counties, and 239 species were recorded across the state. Participants racked up 3,456 field hours, and counted 288,196 birds. Exactly! Not too shabby! Many thanks to all of the perseverant souls who helped out with this year's count! Without such dedicated observers, NAMC data would be useless.

Weather

Weather on May 10th wasn't terribly pleasant, but the frontal system that passed across the lower portions of the state may have grounded many migrants, resulting in better birding in areas where observers could actually get out to count. The front produced storms across the southwestern and south central portions of the state, especially early in the day. Weather seemed to vary in intensity from county to county, but resulted in poor conditions across the region. In *Westmoreland*, Dick Byers reported "heavy rains, floods that blocked roads, dangerous cloud-ground lightning storms and downed trees that made some trails impassable. Worst weather in our count history." In *Bedford*, Ross and Peter Gallardy experienced weird weather, characterized by off and on thunderstorms, and over three hours' rain delay. They made the most of a bad situation, as Ross reported: "In the rain we saw Horned Grebe, Common Loon, Lesser Scaup, Ring-billed Gull, and five species of swallow. We then sat for two hours waiting for the thunderstorm to stop. A few times we thought it was done lightning, so we

got out to bird in the rain. Soon after...lightning would strike very close. We went back to the car. It was around 9:40." The afternoon high was only 60°F in *Bedford*. One county to the east, in *Fulton*, Regina Reeder reported "a very productive day considering the thunder storms that greeted us first thing this morning". Moving further east, Barry Blust reported similarly from *Chester*: "I counted at Marsh Creek and its periphery roads for the NAMC today. Despite the showers early this morning the day proved to be very enjoyable and productive."

Elsewhere in the southeast, *Bucks* experienced little more than 100% cloud cover throughout the a.m., with partial clearing in the afternoon. No rain. No wind. In north central, *Lycoming* reported similar conditions, but sixteen degrees warmer (afternoon high of 78° F). In the northwest, *Erie* reported light rain in the morning, clear skies by the afternoon, and full cloud cover again by dusk.

Participation

The goal for the 2003 count was simply to surpass the record totals set in 2002. The fact that this goal was met is a testimony to the dedication of many birders who participated, even in parts of the state where the weather might have been a discouraging factor. Overall, we added eighteen participants and two counties. Counties lost this year were *Jefferson* (12 hours last year), *Lackawanna* (2 hours), and *Snyder* (11 hours). Counties gained were *Columbia* (12 hours), *Somerset* (8 hours), *Sullivan* (12 hours), *Union* (4 hours), and *Warren* (38 hours). Once again, no reports were received from *Cameron*, *Clinton*, or *Monroe*, in addition to the three lost counties mentioned above.

While *Bucks* had the most total participants, it fell short of *Indiana* and *Franklin* for most total hours. Ten counties contributed 100+ hour efforts this year.

Table 1. Counties with the most participants.

1	Bucks	79
2	Franklin	72
	Indiana	72
4	Schuylkill	54
5	Lancaster	43
6	Allegheny	39
7	Berks	38
	Greene	38
9	Bedford	34
10	Dauphin	33

Table 2. Counties with the most hours (compared to ranking of number of participants).

1	Indiana	227 (2*)
2	Franklin	224 (2*)
3	Bucks	191 (1)
4	Schuylkill	180 (4)
5	Bedford	166 (9)
6	Berks	158 (7*)
7	Lancaster	155 (5)
8	Westmoreland	106 (11)
9	Dauphin	105 (10)
10	Greene	104 (7*)

(* = Tie)

Seventeen counties had twenty or more participants. Of these, *Bedford* put forth the greatest collective effort, with an average of nearly five hours per observer.

Table 3. Greatest effort, by hours per observer. Calculated for counties with 20 or more participants (number of participants noted).

1	Bedford	4.87 (34)
2	Berks	4.14 (38)
3	Luzerne	3.86 (22)
4	Lancaster	3.60 (43)
5	Clearfield	3.54 (20)
6	Schuylkill	3.33 (54)
7	Westmoreland	3.30 (32)
8	Dauphin	3.17 (33)
9	Indiana	3.15 (72)
10	Franklin	3.11 (72)

Many people went above and beyond the call of duty this year, but some efforts were particularly noteworthy. Tom Johnson and Deuane Hoffman birded *Northumberland* for 15 hours, and counted nearly 4,000 birds of 138 species. The most impressive effort, however, probably came from Ross Gallardy, who did a big day with his father, Peter Gallardy. Their day began at midnight and lasted over 21 hours. Ross kept totals the entire time and submitted reports for no fewer than four counties (*Bedford, Cambria, Fayette* and *Somerset*)! They recorded 132 species for the day, despite over three hours' rain delay!

Species encountered

This year's good flight yielded new High Counts (HC) for a total of 60 species, including 18 warbler species and the Lawrence's hybrid. Among the more significant new High Counts were Red-necked Grebe, Double-crested Cormorant, Great Blue Heron, Black Vulture, Common Merganser, Osprey, Northern Harrier, Coopers Hawk, Northern Goshawk, American Kestrel, Wild Turkey, Wilson's Snipe, American Woodcock, Laughing Gull, Bonaparte's Gull, Common Tern, Forster's Tern, Barred Owl, Northern Saw-whet Owl, Yellow-bellied Sapsucker, Common Raven, Swainson's and Wood Thrush, European Starling, Blue-winged, Yellow, Black-throated Blue, Black-throated Green, Blackburnian and Prairie Warblers, Ovenbird, Vesper and White-throated Sparrow, Brown-headed Cowbird, and House Sparrow.

Table 4. Most abundant species by total birds counted.

1	Laughing Gull	30,080
2	European Starling	14,190
3	American Robin	14,145
4	Red-winged Blackbird	12588
5	Common Grackle	11877
6	Canada Goose	11676
7	Tree Swallow	8543
8	Barn Swallow	7054
9	American Crow	7052
10	Gray Catbird	6880
11	House Sparrow	5823
12	American Goldfinch	5683
13	Blue Jay	5486
14	Mourning Dove	5316
15	Yellow-rumped Warbler	4934
16	Northern Cardinal	4835
17	Common Yellowthroat	4636

18	Song Sparrow	4599
19	Ovenbird	4436
20	Yellow Warbler	4332

Table 5. Most widespread species by number of counties in which they were found (compared to overall abundance ranking).

1	Mourning Dove	61 (14)
2	Ruby-throated Hummingbird	61 (74)
3	Blue Jay	61 (13)
4	American Crow	61 (9)
5	Barn Swallow	61 (8)
6	American Robin	61 (3)
7	Common Yellowthroat	61 (17)
8	Northern Cardinal	61 (16)
9	Chipping Sparrow	61 (21)
10	Song Sparrow	61 (18)
11	American Goldfinch	61 (12)
12	Downy Woodpecker	60 (54)
13	Northern Flicker	60 (46)
14	Tree Swallow	60 (7)
15	Gray Catbird	60 (10)
16	Common Grackle	60 (5)
17	Baltimore Oriole	60 (26)
18	Turkey Vulture	59 (33)
19	Canada Goose	59 (6)
20	Mallard	59 (28)

Count highlights

A closer look at some of the highlights and trends from Pennsylvania's 12th NAMC:

Loons through ducks

Pennsylvania's big birding story in early 2003 was the huge invasion of Red-necked Grebes, which very likely resulted from extensive freezing on the Great Lakes. Many of the hundreds to thousands of birds that visited our state lingered into May. Red-necked Grebes were reported on our NAMC for only the third time, with 16 birds seen in 7 counties (*Dauphin* 5, *Lancaster* 4, *Pike* 3, *Berks*, *Cumberland*, *Lebanon* and *Philadelphia* 1 each). The previous HC was two, recorded first in the invasion year of 1994, then again in '96. Double-crested Cormorant numbers continued to grow, with 2,138 recorded in 41 counties. This is just over *twice* the previous NAMC high of 1065 from the 2002 count. As the species' numbers continue to expand within the state, it will be interesting to see if new nesting is documented. Double-crested Cormorants were reported widely across the state, but the highest counts came from *Bucks*

(614), *Erie* (404) and *Lancaster* (327). Reports of Great Blue Herons continue to increase on the count from year to year, with a new HC of 867 this year. The highest counts were made in the southwest corner of the state, with 104 reported from both *Greene* and *Washington*. Other high counts occurred in *Bucks* (69), *Tioga* (54), and *Lancaster* (53). Little Blue Heron was missed for the second year straight, but a few other nice waders were found, including Snowy Egret in *Philadelphia*, and Least Bittern in *Philadelphia* and *Berks*. Yellow-crowned Night-Heron was another miss, but 128 Black-crowned were seen in six counties, nearly all found along the lower Susquehanna River (112 in *Lancaster* alone).

A new HC of Black Vultures was made this year. 260 were seen across 17 counties, with the highest counts in the southeast (130 in *Lancaster*), and *all* within the southern half of the state. 2,357 Turkey Vultures were just shy of last year's HC, and they were seen in nearly every county reporting.

Eighteen duck species (about average for the PA NAMC) were recorded, including new HCs for Gadwall (11), Lesser Scaup (50, thanks to 45 in *Erie*) and Common Merganser (214). Common Mergansers are increasing on the count annually, and are distributed widely throughout the state. The rise in numbers may reflect the expansion of the species' breeding range within the state. A particularly nice waterfowl report was received from *Butler*. Gene Wilhelm reported a dozen species of ducks on Lake Arthur at Moraine State Park. Gene's report included Gadwall, American Wigeon, Northern Shoveler and 44 Ruddy Ducks!

Raptors

New High Counts were established for five raptor species this year: Osprey (234), Northern Harrier (40), Cooper's Hawk (96), Northern Goshawk (5), and American Kestrel (283). Perhaps our least known breeding raptor, Northern Goshawk was recorded in four counties: *Huntingdon* (2), *Luzerne*, *Warren* and *Wyoming*. It is hoped that all are nesting birds. The *Huntingdon* birds were, in fact, nesters. Unfortunately, the attempt failed. The birds in *Luzerne* and *Warren* were seen near

previously known nest sites.

The most exciting raptor story may be that of our Osprey population. A record count of 234 Osprey was made this year as this threatened species continues to expand its numbers within Pennsylvania! Our previous HC was 160 birds in 1997; only 84 were counted last year. Osprey were widely distributed across 46 different counties, but the highest counts came from along the lower Delaware River, in *Northampton* (35) and *Bucks* (18). Other significant counts came from *Lancaster* (15), *Schuylkill* (14) and *Tioga* (13). The *Northampton* Osprey total was high for two reasons, not the least of which is the four active nests in the county. Additionally, compiler Mike Schall reported a strong push of migrants over Blue Mountain that afternoon. At least 17 migrants were counted, including 13 over Smith Gap in just one hour.

2003 was a milestone year for Peregrine Falcons in Pennsylvania! While the NAMC total (9) was not particularly high, the number of counties reporting (7) was a new record. The weather probably had a negative effect on Peregrine totals this year, as there were no reports from at least a few different known urban nest sites. Two reports were especially exciting, as they marked the first confirmed selections of natural cliff nesting sites by this endangered species since 1957! It's encouraging to see that reintroduction efforts have finally met with such success! Among the Peregrines counted on the 2003 PA NAMC were possible nesters at the Delaware Water Gap in *Northampton*, as well as confirmed nesters with one chick on a cliff overlooking the west branch of the Susquehanna River.

The Bald Eagle is another endangered species that is closely watched as it's numbers increase here in Pennsylvania. This year's count of 70 Bald Eagles was second only to the 2002 count. As last year, they were tallied in 26 counties. Adverse weather may have affected totals for this species.

Eagles were reported from many of the same locations as last year, but totals from several counties were significantly lower – most notably from *Lancaster*, where 27 were noted in 2002 compared to this year's 15. For the combined 2002 and 2003 NAMCs, Bald Eagles were tallied in 37 different

counties, but in only 26 on either given year. *Lancaster's* 15 Bald Eagles was by far the top count. Five birds each were reported from *Pike* and *Wayne*, and four each from *Butler* and *Tioga*. Only ten birds were reported from the northeast corner of the state, and just two from Pymatuning in *Crawford*. This, combined with the lessened counts on the lower Susquehanna seems to suggest (hopefully) that many Bald Eagles went unnoticed on this year's NAMC.

Table 6. Occurrence of Bald Eagle on the PA NAMC since 1997.

Year	Total	Counts
1997	28	12
1998	35	13
2000	31	13
2001	55	21
2002	98	26
2003	70	26

Game birds, rails, shorebirds

Ring-necked Pheasants hit an all-time NAMC low, with only 102 birds reported. While noted in 32 counties, the top count was only 12 birds, recorded in *Carbon*. Northern Bobwhites were even scarcer, with just 11 reported – about average for NAMC. The count for Wild Turkey, on the other hand, was a new NAMC high, with 761 tallied statewide. The highest counts, by far, came from *Greene* (93) and *Berks* (84).

Rails are always a challenge to locate. This year was no exception, although some above-average counts were made. Sora had the second highest count ever, with 38 birds in 17 counties. Twenty-four Virginia Rails wasn't bad either. Common Moorhens were on four counts. American Coots were another all-time low, with just two in *Franklin*, and a single bird in *Dauphin*.

Barb Dean counted two Sandhill Cranes in *Lawrence*, near an area where they have been known to nest recently. A flock of cranes has wintered there for the past two years. A pair of Sandhills was discovered in Susquehanna County just days before the count. While not actually seen during the NAMC, they were reported in subsequent weeks. Other known cranes within the state were either not looked for, or possibly just not found due to the fact that, like all birds, they

can be rather elusive creatures.

Shorebird numbers were generally below average due to the wet spring and resulting lack of appropriate habitat. A few interesting species turned up this year, however, including the count's first Whimbrel and first Red-necked Phalarope! The Whimbrel was found in *Wayne*, at Keen's Pond in Waymart, and adequate details were provided to the county compilers. Devich Farbotnik found the Red-necked Phalarope in southern *Bucks*. It was seen on private property along the Delaware River, in the same area where he found a Wilson's Phalarope on last year's count. Lightning strikes twice...

There were a few other notable shorebirds. At Presque Isle in *Erie*, two Ruddy Turnstones were seen at Gull Point. This is only the third NAMC observation of the species. Notable, if not countable, were four more Ruddy Turnstones in that region, reported from the Ohio side of Pymatuning Reservoir, just outside of *Crawford*. The count's fourth record of Willet came from *Franklin*, where one was observed at close range, and identified in flight as well as by call. Fifteen Black-bellied Plovers is above average for NAMC – birds were seen in *Armstrong* (2), *Bedford* (11), and *Erie* (2). The only new High Counts in this category were for Wilson's Snipe (49 in 13 counties), and American Woodcock (122 in 26). The highest counts for each came from John Fedak in *McKean*, where 28 and 29 were tallied, respectively.

Gulls and Terns

Due almost entirely to one huge flock of Laughing Gulls in southern *Bucks*, this bird was, by far, the most numerous on this year's count. An estimated 30,000 Laughing Gulls were in and around the Waste Management landfill in Tullytown, along the Delaware River. Sixty-seven more were found elsewhere in southern *Bucks*, and 13 were reported from *Philadelphia*, for a total of 30,080 Laughing Gulls! The species accounted for 12.45% of all birds reported on the NAMC. Of the other seven species of gull reported this year, the next most numerous *larid* was Ring-billed Gull, with 3,075 reported across 33 counties. There was a new HC for Bonaparte's Gull, with 100 in 11 counties,

compared to just three total birds last year. Lesser Black-backed Gulls were recorded for the third time on the NAMC, and for the first time outside of *Bucks*. Fifteen Lessers were seen along the Delaware River in *Northampton*, and one each was observed in *Bucks* and *Philadelphia*. White-winged gulls are not to be expected on May 10th, so a report of not just one, but *two* species is an excellent surprise! Both Iceland Gull and Glaucous Gull (one each) were found on the Delaware River at Tullytown in southern *Bucks*. Iceland Gull is a new addition to our NAMC list, and Glaucous Gull has now been found at this same site for two years in a row.

There was a good push of both Common and Forster's Terns through the state on count day, with new HCs recorded for each species. Common Terns (190) were reported from 12 counties. Several south-central counties reported small numbers, but higher counts came from the northwest, with birds in *Erie* (125), *Venango* (28), and *Forest* (3). Forster's Terns were also reported from 12 counties, with the highest count in *Dauphin* (117). This species was a bit more evenly distributed across the state. Ten Black Terns in six counties was above average. Caspian Terns seem to be very hit-or-miss on the NAMC: last year's HC of 97 birds was followed this year by a count of exactly three (1 each in *Erie*, *Indiana*, and *Lancaster*).

Doves through Nightjars

Eurasian Collared-doves were reported for the second year in a row, this time from *Franklin*. One of two known pairs was located there on count day. This pair has been present for at least two years, and nested in 2002. Last year's report came from nearby *York* County; it will be interesting to see how the species expands further into the state in coming years!

Sixty hours of nocturnal birding were logged across the state. While not much compared to 3,456 total hours, the effort yielded new HCs for three owl species: Great Horned (90), Barred (83), and Northern Saw-whet (11). Northern Saw-whet Owl was the surprise here, with reports from seven counts (3 each in *McKean* and *Union*, singles in *Bedford*, *Forest*, *Huntington*,

Luzerne and *Potter*). Unfortunately, a five-year low for Barn Owl was reported. Only ten were found, all in the south central portion of the state (*Bedford*, *Cumberland*, *Franklin* and *Juniata*). A few compilers reported that efforts to find known Barn Owls were unsuccessful. It should be noted that 'Barn Owling', as opposed to regular owling, is generally a daytime activity, so the lack of nocturnal hours is presumably not to blame for the paucity of owls in this case. Hopefully a more concerted effort will be made in future years to get out and count *all* of our owls, whether by night *or* by day!

Swifts through swallows

There were new HCs for several species in this category, including Belted Kingfisher, Warbling Vireo, Fish Crow, Common Raven, and four of our seven woodpecker species. Our count of Chimney Swifts was second only to last year's, with 3,891 birds observed in 56 counties. Of the woodpeckers, new HCs were attained for Yellow-bellied Sapsucker (137), Downy (1,164), Hairy (320), and Northern Flicker (1421). Red-headed Woodpeckers were less widely reported than last year, with 56 in 19 counties (compared to 83 in 22 for 2002). Olive-sided Flycatchers were found on six counts (two in *Westmoreland*). Four Yellow-bellied Flycatchers were found, all in *Juniata* near Mifflintown, and all by members of the Petersheim family, along with Marvin Troyer. The count for Least Flycatcher (259) was the highest since 1996, but this was the exception among the flycatchers. Counts for both Eastern Wood-Pewee (235) and Eastern Phoebe (868) were five-year lows, and the other *empids* were generally low as well. It was remarked that phoebes and pewees, at least, appeared in higher numbers in the days and weeks following the count.

One of the more interesting rarities discovered this year was a Loggerhead Shrike, found in *Fayette* by Sharon Kanareff. The NAMC trend for this species has not been particularly encouraging, with only the *Fayette* bird this year, one bird last year, and none at all on the two previous counts.

Table 7. Occurrence of Loggerhead Shrike on PA NAMC since 1993.

Year	Tot.	Counties
1993	2	Adams, Franklin
1994	11	Adams (8), Franklin (3)
1995	2	Adams
1996	4	Adams (2), Franklin (2)
1997	2	Adams
1998	5	Adams (3), Franklin (2)
2000	0	
2001	0	
2002	1	Greene
2003	1	Fayette

Reports of Loggerhead Shrike have been few and far between in Pennsylvania over the past several years, so it is hoped that the species is still regularly present somewhere in the south central or southwestern regions!

The High Count for Common Raven spiked sharply this year. Following a very consistent average of about 80 ravens since 1995, this year's total was 227! Ravens were observed in 31 counties. Our previous HC of 90 ravens was more than doubled thanks to a report from just one area: in *Potter*, Jack Mitterer has constructed scavenger feeders on his farm. His feeding stations, well stocked with slaughterhouse scraps, attract crows and raven in droves, as evidenced by his count of 111 Common Ravens (yes, 111 ravens – not a misprint...!) This must have been quite a sight to see!

Horned Larks were widespread this year, with 149 reported from 25 counties. Tree and Barn Swallows were our 7th and 8th most abundant birds, respectively. While not quite so numerous as last year, 1,166 Purple Martins were reported from a record 30 counties this time around.

Chickadees through waxwings

There was a new High Count among the chickadees this year, but it was for the 'chickadee species' category. 198 chickadees in 11 counties were *not identified* conclusively this year. Wariness among birders in the chickadee 'hybrid zone' is on the rise. It seems that, wisely, far more observers are less likely to rely on song and other equally suspect field marks when attempting to separate our two chickadee species!

Prompted by the severe dip in Carolina Wren numbers between NAMC '02 and NAMC '03, time was

spent sorting through past data for this species. As a year-round resident, our Carolina Wren (CAWR) population is highly susceptible to mass die-offs during harsh winters such as what we experienced in 2002-2003. Past data suggests that the population was hit hard in the winters of '93-'94 and again in '95-'96 (corroborated by CBC data), then grew steadily from year to year through 2002. Taking into consideration not only total birds counted, but also CAWR totals as a function of *all* birds (of *all* species) counted each year, the findings were as follows. A birds / field hour ratio would be helpful here, but it seems that NAMC hours weren't reported well until recent years.

Table 8. Occurrence of Carolina Wren on PA NAMC since 1993.

Year	Total	% of Total Count
1993	456	0.425%
1994	118	0.106%
1995	206	0.139%
1996	149	0.071%
1997	275	0.126%
1998	498	0.245%
2000	617	0.304%
2001	769	0.369%
2002	1456	0.563%
2003	800	0.331%

Specific areas of the state were looked at to try to see where Carolina Wrens may have suffered most. Hours per county were fairly consistent from 2001 to 2003 in the following examples (2001 / 2002 / 2003), and nearly all counties are well represented on the count:

In the southeast:

Lancaster 43 birds in 2001 / 76 in 2002 / 40 in 2003

Bucks 78 / 123 / 84

York 19 / 67 / 14

Moving north:

Schuylkill 11 / 18 / 19

Luzerne 19 / 16 / 30 (counts actually improved slightly here)

Central PA, south to north:

Franklin 56 / 91 / 55

Juniata 64 / 114 / 50

Centre 14 / 20 / 23 (another increase here)

Southwest:

Bedford 25 in '02 (111 hrs) / 16 in '03

(165 hrs)

Westmoreland 39 / 65 / 27

Greene 46 / 118 / 38 (huge rise and fall here)

Allegheny 47 / 100 / 25 (same here)

Indiana 36 / 64 / 22

Washington (fewer hours, but 12 CAWR in '02 and none this year)

Northwest:

Data from here doesn't tell much. *Erie* had five in '02 and none this year...

It seems that the Carolina Wren population may very well have taken a big hit this year across many portions of the state, particularly the southwest. The few increases in central PA may be statistical anomalies. Results of the 104th Christmas Bird Count this coming winter will no doubt cast further light upon the subject!

Unfortunately, following last year's record count, Eastern Bluebird numbers were at a five-year low in 2003. Only 1,384 were tallied, nearly a thousand less than our 2002 total. Hopefully these numbers aren't indicative of further casualties of the harsh winter. Again, results of the 104th CBC are anticipated!

There was an unprecedented effort among NAMC participants this year to get out and count nocturnal migrants, particularly thrushes! As a result, we had new HCs for three species (Gray-cheeked, Swainson's and Wood Thrush), and a fourth (Bicknell's) was recorded for the first time. In *Northumberland*, Deuane Hoffman began his morning with all six thrush species, including the count's first occurrence of Bicknell's Thrush! He ended his day in *Dauphin*, where he had two more Bicknell's. Deuane, like several other nocturnal listeners, also reported a few unknown Gray-cheeked/Bicknell's type calls, which are extremely difficult to distinguish under even the best of conditions.

In migration, thrushes often go unnoticed, skulking in the woods by day, and slipping away in the dark. The only real way to gauge the actual migration of this genus is to get out early (or late) and listen. To illustrate this point: the average count of Gray-cheeked Thrush for past NAMCs has been 6.5 birds. This year's High Count of 29 GCTH can be attributed to 24 birds detected nocturnally, including 17 reported by Andy McGann in *York*.

To further illustrate: of 51 Swainson's in *York*, Andy counted all but one nocturnally. All of *Northumberland*'s 76 Swainson's and 13 Hermit Thrushes were heard before dawn. *Lebanon*'s two Grey-cheeked and 43 Swainson's were reported nocturnally by Randy Miller. In *Erie*, the majority of thrushes (including 24 Swainson's) were heard passing over Ben Coulter's backyard. For anyone interested in learning the flight calls of thrushes and many other species, the CD-ROM "Flight Calls of Migratory Birds (Eastern North American Landbirds)", recorded by Bill Evans and Michael O'Brien, is widely recommended. For further information and to order, check out <http://www.oldbird.org/>.

One of the less desirable new HCs was of European Starling. A total of 14,190 starlings were seen in 57 counties.

Warblers

Warblers were very well represented on the count this year! Despite, or more likely, *due* to the weather system that passed through much of the state on the morning of the count, more warblers were recorded this year than any other. Over 31,000 warblers of 37 species were reported, and warblers accounted for 10.9% of all birds counted (a seven year high). The species total of 37 matched the NAMC record set in 1998 and 2001. Brewster's (6) and Lawrence's (5) Warblers were also recorded this year, but as hybrids, they are not included in the total species count. Highlights included Orange-crowned, Swainson's and Connecticut Warblers. Orange-crowned Warblers were reported by Gene Wilhelm in *Butler* (2), and by Mark Larson in *Union*. The count produced two different Swainson's Warblers, marking only the third time the species has been recorded on the count. Chris Knoll found a Swainson's Warbler at Sewickley Heights Borough Park in *Allegheny* on May 9, and the bird stuck around for the count. In *Mifflin*, Ivan Byler Sr. and Ivan Byler Jr. found a Swainson's singing near Belleville. Our only report of Connecticut Warbler this year came from *Tioga*, where Ann Vayansky spotted the bird in some underbrush on her farm in Mansfield. This irregular spring migrant has now been reported on six of eleven PA NAMC efforts, with a maximum of

three reported in 2002. New High Counts were set for eighteen warbler species, as well as for the Lawrence's hybrid! Notable HCs were set for Blue-winged (788), Yellow (4,332), Black-throated Blue (809), Black-throated Green (1,980), Blackburnian (724), American Redstart (2,008), Ovenbird (4,436) and Common Yellowthroat (4,636). Blue-winged Warblers outnumbered Golden-winged Warblers by a ratio of nearly 8:1, with 99 Golden-wings reported across the state. The count for Golden-winged was second only to 1994's total of 124. It's interesting (though not necessarily a reliable indication of the overall trend), that in 1994, the ratio of Blue-winged to Golden-winged was a mere 3:1. It should be noted that this ratio has fluctuated wildly over the past decade, and that this year's ratio is very close to the eleven year NAMC average.

Tanagers through sparrows

This category contains a species of particular interest, namely, Summer Tanager. Summer Tanagers occur more commonly in states to our south, but occur irregularly each spring in certain southern portions of Pennsylvania as well. They have been recorded as rare nesters in several southwestern counties. Most NAMC records of the species have come from *Greene* (4 times), but they have also been recorded in *Adams*, *Allegheny*, *Chester*, *Indiana*, and, oddly enough, *Venango*. Following the no-show for the species in 2002, a single bird was found this year by Jim Dearing in *Indiana*. As is often the case with this species, the bird was not re-found the following day. This was *Indiana's* second NAMC record of Summer Tanager, the first having been three birds recorded in 1996.

Our other tanager, the Scarlet Tanager, is much more common! A significant proportion of the species' overall population is thought to breed right here within our state's forests, so it's worth taking a look at recent PA NAMC trends for this species. A total of 1,996 Scarlet Tanagers was reported this year, just 173 shy of last year's record count. The percentage of Scarlet Tanagers as a function of all birds counted on the NAMC has hovered consistently at about 0.82% over the past five years. There was a noticeable

dip from 1996 to 1999. The percentage was slightly higher in the first few years of the count, but it must be noted that coverage wasn't as widespread then:

Table 8. Occurrence of Scarlet Tanager on PA NAMC since 1993.

Year	Total	% Total Ct
1992	78	0.226%
1993	930	0.868%
1994	1013	0.909%
1995	1383	0.933%
1996	1582	0.759%
1997	621	0.284%
1998	1022	0.504%
2000	1655	0.815%
2001	1717	0.824%
2002	2169	0.839%
2003	1996	0.826%

There were some nice counts of sparrows this year, including four new High Counts. New HCs were set for Eastern Towhee (3,648), Vesper Sparrow (104), Swamp Sparrow (354), and White-throated Sparrow (1,859), which was remarked to have been a bit late to depart this spring. The same can be said for American Tree Sparrow; 34 were counted, tying the HC from 1997. This species has been recorded on just over half (6) of our counts. The best bird in this family was a Clay-colored Sparrow seen at Presque Isle in *Erie*. Compiler Ben Coulter reported: "...one (Clay-colored) with a Chipping Sparrow in a grassy island at the Perry Monument lot. There had been scattered sightings of this species for several days prior to the count". Ben added that the species is annual on Presque Isle in early to mid May, and was seen by multiple observers. Annual or not, a very nice bird! Clay-colored Sparrow has, in fact, now been recorded annually on the NAMC since 2000, and five times overall.

Cardinals through finches

In this category, there were five new High Counts. Rose-breasted Grosbeak, Bobolink and Red-winged Blackbird were all present in record numbers. The other two new records are a bit more dubious: Brown-headed Cowbirds and House Sparrows are alive and well, and on the rise. House Sparrows (5,823 of them) made up 2.4% of all birds counted this year.

The winter of 2002-2003 produced very few 'northern' finches, so it's no surprise that the more unusual species were not found on the NAMC either. The Purple Finch count (238) was the lowest since 1993, when only 29 counties reported. Surprising was a report of ten Evening Grosbeak from *Bradford*. Evening Grosbeak were largely unreported statewide over the previous winter, so the appearance of a small flock at the Duvall's on count week seems significant. Two to four birds had been noted in previous days, but the number spiked to ten on count day! Pine Siskin was missed for the first time in the count's twelve-year history.

In summary...

I would like to thank each and every person that helped out with Pennsylvania's North American Migration Count this year! The count has become a real institution for many of the state's birders, but greater participation is certainly possible, and hopefully will be attained in the coming years. The data that we all collect each year is an invaluable addition to Pennsylvania's vast ornithological record! The thirteenth Migration Count will take place on Saturday, May 8, 2004, rain or shine! Mark your calendars now!

Appendix. List of coordinators.

Due to the large number of participants in Pennsylvania's NAMC, all counters cannot be listed as in past years. County coordinators and their contact information are listed below. For certain counties, multiple names with no contact info may be listed. This usually indicates that the county had participants, but no actual coordinator.

PA State NAMC Coordinator -

Bill Etter, 1030 Old Bethlehem Rd #2, Perkasio, PA 18944.
(215) 258-0229(H). (215) 964-3613(C)
better@netcarrier.com

Adams - Peter Robinson, PO Box 482, Hanover, PA 17331. (717) 632-8462, pabirder@hotmail.com

Allegheny - Carol and Fred McCullough, 1119 Queensbury St, Pittsburgh, PA 15205. carolmcc@juno.com

Armstrong - Margaret Higbee, 3119 Creekside Road, Indiana PA 15701.

(724) 354-3493. bcoriole@twd.net
Beaver – Linda Sporrer, Linda Kuehn
Bedford – Ron Kidd, PO Box 37, Buffalo Mills, PA 15534.
 (814) 623-6980. pegkid@yellowbananas.com
Berks - Matt Wlasniewski, 21 Scenic Drive, Hamburg PA 19526
 (610) 562-7550. matski@enter.net
Blair - Marcia Bonta, P.O. Box 68, Tyrone, PA 16686. marciabonta@hotmail.com
Bradford - Trudy Gerlach, RR2, Box 228, Wyalusing PA 18853 tgswoods@epix.net
Bucks - Diane Allison, 108 Ervin Road, Pipersville PA 18947
 (610) 847-2085. dalliso@postoffice.ptd.net
Butler – Gene Wilhelm, 513 Kelly Blvd, Slippery Rock, PA 16057
 genewilhelm@aol.com
Cambria - Dave Gobert, 287 Beech Road, Patton, PA 16668.
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Carbon - David Hawk, 521 Walnut Street, Lehighton, PA 18235.
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Centre - Gene Zielinski, 1322 Old 220 Road, Bellefonte, PA 16823.
 (814) 353-8212. eez55@earthlink.net
Chester - Martin Page, 9 Old Covered Bridge Rd, Newtown Square, PA 19073. martin_page@email.msn.com
Clarion - Margaret Buckwalter, 249 Maple Dr, Shippensburg, PA 16254.
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Clearfield - Steve Belin, 104 2nd Avenue, Houtzdale, PA 16651
 belin@clearnet.net
Columbia - Marilyn Gamble, Joan Morgan
Crawford - Marvin Byler, 6498 Pine Road, Hartstown, PA 16131.
Cumberland - Ramsay Koury Jr, 123 Old Ford Drive, Camp Hill PA 17011
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Erie - Ben Coulter, 3431 Argyle Avenue, Erie, PA 16505.
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 Barbara Wallace nrsphio@state.pa.us
 Ross Gallardy HossRoss7@aol.com
Forest - Flo McGuire, HC 1 Box 6A, Tionesta, PA 16353. (814) 755-3672.
 mcguire@usachoice.net
Franklin - Kenneth Gabler, 2381 Lincoln Way West, Chambersburg, PA 17201, (717) 263-3164
Fulton – Dan Snell, Regina Reeder
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Greene - Kathy Kern, 322 Kennel Road, Waynesburg, PA 15370.

n3xsj@alltel.net
Huntingdon - Doug Wentzel, Shaver's Creek Environmental Center,
 University Park PA 16802.
 djw105@outreach.psu.edu
Indiana - Margaret Higbee, 3119 Creekside Road, Indiana, PA 15701
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Juniata - Linda Whitesel, RR 3 Box 820, Mifflintown, PA 17059.
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 Elmer Petersheim, RR2, Box 539, Mifflintown, PA 17059
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Lycoming - Wes Egli, 105 Sherman Street, Muncy, PA 17756.
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McKean - John Fedak, 26 Race Street, Bradford PA 16701.
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Mercer - Neil Troyer, 876 Williamson Road, Mercer PA 16137
Mifflin - Margaret Kenep, 590 Mountain Lane, McVeytown, PA 17051. (717) 899-6252. mkenep@acsworld.com
 Jesse Swarey, 59 Cortland Apple Lane, Belleville, PA 17004
Montgomery - Bill Etter, 1030 Old Bethlehem Road Apt#2, Perkasio, PA 18944. (215) 964-3613.
 better@netcarrier.com
Montour – Jon D. Beam, PP+L Montour Preserve, 700 Preserve Road, Danville, PA 17821. (570) 437-3131. jdbeam@pplweb.com
Northampton - Michael Schall, 1149 Mickley Avenue, Whitehall, PA 18052.
 mdtjschall@yahoo.com
Northumberland - Deuane Hoffman
 corvuscorax@comcast.net
 Tom Johnson, 24 Meadowood Drive, Hummelstown, PA 17036.
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 micganser@aol.com
Philadelphia - Doris McGovern 209 Dogwood Rd, Media, PA 19063.
 (610) 565-8484.
 mcgovern@masca.museum.upenn.edu
Pike – David Wulfhorst, Jen Naugle, Barb Polilli, Patty Libby, Kristan Garvin, Ethan Huner
Potter – David Hauber, 881 Whitney Creek Rd, Coudersport, PA 16915.
 haubers3@penn.com
Schuylkill - Mike Ward, 86 Sherwood Road, Pottsville, PA 17901.
 leibward@aol.com

Somerset - Ross Gallardy, Peter Gallardy
 306 Kim Lane, Windber, PA 15963
 HossRoss7@aol.com
Sullivan – Robert R Megraw, S Stott, Trudy Gerlach
Susquehanna - Randi Andersen, RR2 box 3384, Wildenberg Rd, Union Dale, PA, 18470-9532 rand99@epix.net
Tioga - Ann Vayansky, 199 4th Street, Mansfield, PA 16933. (570) 662-3735.
 anniev@epix.net
Union – Allen Schweinsberg, Mark Larson, Richard Nickelsen, Cindy Davis, Joe Gyekis, Loanne Snavely
Venango - Russ States, 24 E 5th Street, Oil City, PA 16301. (814) 676-6320.
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Warren - Scott H. Stoleson, Bill Reynolds, Matt Cook, Colin Morel, Greg Morel, Andrew Ordiway, Leslie Goodwill
Washington - Amy Lynn Taracido, 1036 Pike Run Drive, Coal Center, PA 15423.
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 otusasio@tcsinternet.net
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NORTH AMERICAN MIGRATION COUNT - MAY 10, 2003

	ADAM	ALLE	ARMS	BEAV	BEDF	BERK	BLAI	BRAD	BUCK	BUTL	CAMB	CARB	CENT	CHES	CLAI	CLEA	COLU	CRAW	CUMB	DAUP
Red-throated Loon	-	-	-	-	1	1	-	-	4	-	-	-	-	-	-	-	-	-	-	-
Common Loon	1	-	-	-	9	5	-	-	16	1	5	4	1	4	-	-	2	-	8	4
Pied-billed Grebe	-	1	-	-	3	3	-	-	2	1	-	-	-	1	-	-	-	2	-	-
Horned Grebe	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Red-necked Grebe	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	5
Great Cormorant	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Double-crested Cormorant	-	32	-	-	4	124	-	1	614	54	3	2	2	5	-	-	6	10	21	89
American Bittern	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
Least Bittern	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Great Blue Heron	-	19	-	5	5	27	-	12	69	27	3	1	5	15	1	7	3	4	8	9
Great Egret	-	-	-	-	2	1	-	-	4	-	-	-	-	-	-	-	-	-	14	36
Snowy Egret	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Green Heron	-	1	1	2	4	16	-	3	21	1	1	1	6	8	-	1	1	3	16	10
Black-crowned Night-Heron	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	4	3
Black Vulture	-	-	-	-	10	8	-	-	17	-	-	-	-	18	-	-	-	-	11	3
Turkey Vulture	3	18	-	3	75	67	3	30	143	13	14	-	36	66	12	11	4	7	61	55
Snow Goose	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-
Canada Goose	2	236	28	27	115	392	-	132	1086	203	25	27	97	240	13	28	84	139	211	296
Mute Swan	-	-	1	-	-	3	-	2	13	-	-	-	2	2	-	-	-	-	2	-
Tundra Swan	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Wood Duck	-	8	-	-	26	32	-	7	43	11	8	-	15	57	5	3	3	7	9	66
Gadwall	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	2	5
American Wigeon	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-
American Black Duck	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1
Mallard	3	195	2	7	58	118	-	20	375	16	12	23	108	61	3	9	7	10	80	150
Blue-winged Teal	-	-	-	-	-	-	-	-	4	6	-	-	1	-	-	-	-	-	-	-
Northern Shoveler	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-
Northern Pintail	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1
Green-winged Teal	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring-necked Duck	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-
Greater Scaup	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lesser Scaup	-	-	-	-	1	-	-	-	1	2	-	-	-	-	-	-	-	-	1	-
Bufflehead	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	1	2
Common Goldeneye	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Hooded Merganser	-	10	-	-	-	-	-	-	-	4	-	-	1	-	1	-	-	2	1	12
Common Merganser	1	-	-	-	-	-	-	24	14	6	-	-	1	1	1	-	-	-	1	1
Red-breasted Merganser	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
Ruddy Duck	-	-	-	-	2	1	-	-	5	44	-	-	-	-	-	-	-	7	-	2
Osprey	-	-	-	-	2	13	-	2	18	8	-	4	6	1	-	-	1	-	3	4

NORTH AMERICAN MIGRATION COUNT - MAY 10, 2003																				
	ADAM	ALLE	ARMS	BEAV	BEDF	BERK	BLAI	BRAD	BUCK	BUTL	CAMB	CARB	CENT	CHES	CLAI	CLEA	COLU	CRAW	CUMB	DAUP
Bald Eagle	-	-	-	-	-	2	-	2	2	4	-	-	1	-	-	-	-	2	1	2
Northern Harrier	-	2	-	-	2	-	-	-	1	-	-	-	1	-	1	-	2	-	1	1
Sharp-shinned Hawk	-	1	-	-	1	2	-	2	10	1	1	2	2	3	1	-	-	-	3	-
Cooper's Hawk	-	5	-	-	1	2	2	-	2	2	1	-	2	3	-	-	-	-	9	4
Northern Goshawk	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accipiter sp.	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Red-shouldered Hawk	-	1	-	-	-	-	-	-	-	2	-	-	3	-	2	1	2	1	1	1
Broad-winged Hawk	1	-	-	-	-	6	-	3	7	2	1	-	4	2	-	-	-	-	4	2
Red-tailed Hawk	-	17	-	-	9	34	1	7	27	7	7	3	13	14	8	6	4	4	16	35
Buteo sp.	-	-	-	-	-	-	-	-	1	-	-	2	-	-	-	-	-	-	-	-
American Kestrel	-	4	-	-	7	13	-	1	11	1	2	2	7	7	-	-	8	1	17	9
Merlin	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Peregrine Falcon	-	-	-	-	-	-	-	-	2	-	-	-	-	1	-	-	-	-	-	-
Ring-necked Pheasant	-	-	-	-	4	3	-	-	1	1	-	12	2	1	2	2	1	1	-	2
Ruffed Grouse	-	1	-	-	6	2	4	2	-	1	1	-	5	-	1	6	-	-	3	1
Wild Turkey	-	45	5	4	13	87	1	6	30	3	3	-	7	-	21	6	13	7	3	6
Northern Bobwhite	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-
Virginia Rail	-	-	-	-	-	-	-	-	-	-	2	-	4	3	-	-	-	-	-	-
Sora	-	-	-	-	2	3	-	-	1	1	1	-	3	6	-	-	-	-	-	-
Common Moorhen	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	1
American Coot	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Sandhill Crane	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Black-bellied Plover	-	-	2	-	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Semipalmated Plover	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Killdeer	-	32	5	2	23	10	-	10	33	10	5	-	41	3	4	11	2	16	22	15
Greater Yellowlegs	-	-	-	-	8	2	-	-	4	-	-	1	-	4	-	-	-	1	-	4
Lesser Yellowlegs	-	-	-	-	1	4	-	-	8	-	-	-	2	6	-	-	-	-	1	14
Solitary Sandpiper	-	4	-	-	1	9	-	-	37	5	4	1	13	23	-	-	-	1	16	53
Willet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Spotted Sandpiper	-	15	-	2	5	20	-	27	40	5	5	21	16	9	-	-	3	3	16	29
Upland Sandpiper	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	2	-	-
Whimbrel	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ruddy Turnstone	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Semipalmated Sandpiper	-	-	-	-	-	-	-	-	1	-	-	-	-	3	-	-	2	-	-	-
Least Sandpiper	-	-	-	-	-	9	-	-	23	-	-	-	2	30	-	-	-	-	8	28
peep sp.	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-
Pectoral Sandpiper	-	-	-	-	-	2	-	-	1	-	-	-	-	1	-	-	-	-	1	-
Dunlin	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	1
Short-billed Dowitcher	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Wilson's Snipe	-	-	-	-	-	1	-	-	1	1	-	-	4	1	-	2	-	-	1	1

NORTH AMERICAN MIGRATION COUNT - MAY 10, 2003

	ADAM	ALLE	ARMS	BEAV	BEDF	BERK	BLAI	BRAD	BUCK	BUTL	CAMB	CARB	CENT	CHES	CLAI	CLEA	COLU	CRAW	CUMB	DAUP
American Woodcock	-	-	-	-	2	-	-	2	-	2	-	-	7	-	2	3	1	-	1	2
Red-necked Phalarope	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Laughing Gull	-	-	-	-	-	-	-	-	3067	-	-	-	-	-	-	-	-	-	-	-
Bonaparte's Gull	-	-	-	-	-	-	-	-	10	5	-	-	-	-	-	-	-	-	-	-
Ring-billed Gull	-	8	-	-	80	12	-	1	61	-	3	2	8	-	-	1	3	30	23	58
Herring Gull	-	47	-	-	4	-	-	-	561	-	-	-	-	-	-	-	-	-	1	1
Iceland Gull	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Lesser Black-backed Gull	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Glaucaous Gull	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Great Black-backed Gull	-	-	-	-	-	-	-	-	29	-	-	-	-	-	-	-	-	-	-	-
gull sp.	-	1	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	3
Caspian Tern	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Common Tern	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8
Forster's Tern	-	-	-	-	8	-	-	-	1	-	-	-	-	-	-	-	-	-	-	117
Black Tern	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	3
tern sp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rock Dove	-	108	18	-	55	94	-	21	106	139	3	6	96	30	-	10	10	16	92	99
Eurasian Collared-Dove	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mourning Dove	11	84	43	3	105	278	5	29	409	75	50	67	164	77	14	119	33	24	118	155
Black-billed Cuckoo	-	4	-	-	7	17	-	-	10	1	-	-	-	2	1	1	-	-	-	4
Yellow-billed Cuckoo	-	2	-	-	3	33	-	-	7	-	-	-	1	2	-	-	-	-	3	13
cuckoo sp.	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	1
Barn Owl	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
Eastern Screech-Owl	-	2	-	-	1	4	-	-	4	-	-	-	-	15	-	1	2	-	1	-
Great Horned Owl	-	3	-	-	3	3	-	1	7	-	2	-	-	8	-	-	1	-	3	2
Barred Owl	-	-	-	-	3	1	-	2	1	1	-	-	-	1	-	-	-	-	6	-
Northern Saw-whet Owl	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Common Nighthawk	-	7	-	-	1	3	-	-	7	-	3	-	-	5	-	-	-	-	-	-
Whip-poor-will	-	1	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	5	11
Chimney Swift	3	128	60	1	42	156	2	45	732	159	27	2	66	64	26	8	-	10	83	142
Ruby-throated Hummingbird	7	12	6	1	27	35	1	4	24	2	8	3	15	12	6	9	1	1	18	10
Belted Kingfisher	-	5	-	2	7	8	-	10	9	2	1	-	18	4	-	-	2	-	4	8
Red-headed Woodpecker	-	-	-	-	2	3	-	-	2	2	-	-	2	-	-	1	1	-	2	-
Red-bellied Woodpecker	2	58	4	1	24	113	1	25	169	19	4	1	18	79	-	-	-	3	43	42
Yellow-bellied Sapsucker	1	-	-	-	-	-	-	9	-	3	3	-	-	-	-	-	1	-	-	-
Downy Woodpecker	5	20	2	-	35	99	2	15	103	13	7	6	24	38	5	10	3	3	25	26
Hairy Woodpecker	2	8	2	1	12	14	1	7	13	6	1	1	9	8	3	2	-	1	8	2
Northern Flicker	1	49	4	1	32	61	2	14	106	18	9	4	42	35	8	9	1	9	19	55
Pileated Woodpecker	-	10	-	-	16	17	2	3	1	1	4	-	16	1	2	6	2	1	14	14
Olive-sided Flycatcher	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-

NORTH AMERICAN MIGRATION COUNT - MAY 10, 2003																				
	ADAM	ALLE	ARMS	BEAV	BEDF	BERK	BLAI	BRAD	BUCK	BUTL	CAMB	CARB	CENT	CHES	CLAI	CLEA	COLU	CRAW	CUMB	DAUP
Eastern Wood-Pewee	1	5	-	-	12	15	-	1	5	3	-	-	4	12	1	-	-	-	8	11
Yellow-bellied Flycatcher	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acadian Flycatcher	-	10	-	2	1	11	2	-	2	3	-	-	1	17	-	-	-	-	3	-
Alder Flycatcher	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-
Willow Flycatcher	-	2	-	1	1	-	-	-	2	5	-	-	-	7	-	-	-	2	1	1
Least Flycatcher	-	6	-	-	2	1	1	9	1	9	4	-	8	-	1	-	3	1	2	2
empid sp.	-	3	-	-	-	1	-	-	3	-	1	-	-	-	-	2	-	-	-	4
Eastern Phoebe	3	17	-	3	15	34	2	12	36	7	3	2	22	15	8	2	2	1	13	26
Great Crested Flycatcher	4	9	-	1	11	45	2	7	50	2	-	-	28	33	-	2	1	6	32	36
Eastern Kingbird	-	9	-	2	13	38	-	12	51	16	3	3	5	50	-	2	1	7	16	32
Loggerhead Shrike	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
White-eyed Vireo	-	10	-	-	-	30	-	-	24	9	-	-	1	34	-	-	1	-	8	7
Blue-headed Vireo	-	6	-	-	4	5	1	6	1	5	4	1	30	1	-	1	2	1	9	5
Yellow-throated Vireo	-	6	-	-	-	17	-	2	13	8	-	-	3	12	1	-	-	2	3	5
Warbling Vireo	-	26	-	2	6	35	-	9	64	12	-	3	1	21	2	-	-	8	39	18
Philadelphia Vireo	-	1	-	-	-	-	-	-	-	-	-	1	3	-	-	-	-	-	-	-
Red-eyed Vireo	2	160	-	10	31	158	13	6	154	21	5	7	60	84	9	1	-	14	107	73
vireo sp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Blue Jay	6	114	15	3	70	295	1	23	366	30	22	38	164	125	21	47	7	12	106	177
American Crow	3	153	28	2	119	358	4	76	316	55	101	34	279	125	30	65	34	13	122	210
Fish Crow	-	-	-	-	-	23	-	-	32	-	-	-	19	16	-	-	1	-	23	46
crow sp.	-	-	-	-	-	-	-	-	26	-	-	-	-	6	-	-	-	-	-	-
Common Raven	-	-	-	-	4	1	2	2	-	-	1	-	15	-	-	1	1	-	-	2
Horned Lark	-	2	-	-	-	-	-	-	-	3	1	-	2	1	-	-	-	-	11	20
Purple Martin	4	-	-	-	47	15	-	-	1	149	2	-	27	37	-	-	-	23	34	-
Tree Swallow	2	42	2	6	107	180	-	41	1213	250	568	315	134	136	32	33	47	110	101	154
N. Rough-winged Swallow	-	96	-	5	14	53	-	7	189	6	7	5	9	20	-	2	-	64	20	102
Bank Swallow	-	-	-	-	17	11	-	143	18	2	20	-	125	5	-	-	-	76	36	19
Cliff Swallow	-	1	-	-	64	70	-	8	187	299	57	2	64	-	-	-	-	120	-	15
Barn Swallow	4	67	14	8	165	185	2	21	220	188	107	52	415	135	25	12	17	84	187	110
swallow sp	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-
Carolina Chickadee	2	27	-	2	-	58	-	-	132	-	-	-	-	80	-	-	-	-	29	27
Black-capped Chickadee	-	23	2	-	50	39	4	33	27	17	32	14	63	-	20	16	5	13	34	8
chickadee sp.	4	19	-	-	-	56	-	-	55	-	-	-	-	-	-	-	-	-	-	18
Tufted Titmouse	4	96	8	2	36	224	5	24	253	7	7	16	86	76	17	22	7	9	83	111
Red-breasted Nuthatch	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
White-breasted Nuthatch	3	12	5	-	16	56	2	6	44	10	5	2	12	65	6	6	2	3	18	17
Brown Creeper	-	-	-	-	2	3	-	-	-	1	2	-	1	-	2	-	1	-	1	-
Carolina Wren	1	25	3	-	16	54	-	4	84	10	-	-	23	27	2	1	-	-	23	41
House Wren	1	23	1	-	16	76	-	7	135	14	5	10	44	40	5	5	-	6	52	60

NORTH AMERICAN MIGRATION COUNT - MAY 10, 2003

	ADAM	ALLE	ARMS	BEAV	BEDF	BERK	BLAI	BRAD	BUCK	BUTL	CAMB	CARB	CENT	CHES	CLAI	CLEA	COLU	CRAW	CUMB	DAUP
Winter Wren	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Marsh Wren	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	1	-	1	-
Golden-crowned Kinglet	-	2	-	-	-	1	-	1	1	-	-	-	-	1	-	-	-	-	3	1
Ruby-crowned Kinglet	-	5	-	-	-	10	-	-	12	2	1	-	6	3	2	2	3	1	13	5
Blue-gray Gnatcatcher	1	26	-	-	11	111	3	-	147	9	-	17	24	90	2	1	2	1	52	32
Eastern Bluebird	3	29	6	2	20	62	-	9	51	7	7	3	25	35	3	7	14	15	26	55
Veery	4	5	-	-	1	54	-	5	28	15	4	3	7	32	1	-	-	-	5	20
Gray-cheeked Thrush	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5
Bicknell's Thrush	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
Swainson's Thrush	-	5	-	-	1	17	-	-	4	1	2	-	-	-	1	-	-	-	-	57
Hermit Thrush	-	1	-	-	-	6	-	1	2	-	5	-	6	-	-	2	-	-	5	11
Wood Thrush	23	92	9	3	31	331	11	26	297	38	11	10	107	167	15	5	2	12	149	146
thrush sp.	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	1	4
American Robin	15	466	112	12	247	353	4	73	959	189	130	80	423	261	37	91	77	99	322	364
Gray Catbird	2	99	6	7	22	550	4	27	685	38	17	88	210	318	15	23	2	32	247	325
Northern Mockingbird	2	29	2	1	8	37	-	-	68	1	-	4	19	48	1	-	6	-	26	38
Brown Thrasher	-	13	-	-	18	12	-	4	12	5	4	3	26	14	6	1	1	1	12	18
European Starling	-	297	10	-	240	371	-	29	829	151	99	63	352	213	-	54	52	32	406	370
American Pipit	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	61	15
Cedar Waxwing	-	45	-	9	2	19	-	-	210	35	-	23	24	21	-	2	5	-	26	32
Blue-winged Warbler	-	18	-	1	-	36	-	1	46	31	-	1	3	21	4	-	-	4	14	43
Golden-winged Warbler	-	-	-	-	5	-	-	-	-	1	-	-	28	-	-	-	-	-	1	2
Brewster's Warbler	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-
Lawrence's Warbler	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1
Tennessee Warbler	-	22	-	-	5	7	-	-	1	1	-	-	6	-	3	-	-	4	1	17
Orange-crowned Warbler	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-
Nashville Warbler	-	25	-	-	1	3	-	1	4	97	-	1	20	1	3	1	-	-	4	6
Northern Parula	1	6	-	1	4	39	-	-	54	3	-	2	6	29	-	2	2	-	16	20
Yellow Warbler	-	169	-	10	35	119	2	42	367	88	16	15	131	105	17	18	4	36	45	81
Chestnut-sided Warbler	-	48	-	-	5	22	2	5	16	25	7	6	85	14	9	4	1	1	15	48
Magnolia Warbler	-	58	-	-	3	25	-	-	49	3	3	4	25	22	7	2	-	6	17	30
Cape May Warbler	-	1	-	-	-	2	-	-	-	3	-	-	1	-	-	-	-	-	-	4
Black-throated Blue Warbler	1	28	-	-	5	36	1	-	79	2	4	2	27	11	-	-	1	1	56	77
Yellow-rumped Warbler	5	79	-	-	9	348	-	36	586	109	-	18	32	75	1	5	7	7	109	318
Black-throated Green Warbler	4	74	-	1	6	59	8	33	52	5	15	4	107	19	10	3	-	6	29	27
Blackburnian Warbler	-	46	-	-	2	10	-	3	16	5	2	2	28	1	2	3	2	1	10	48
Yellow-throated Warbler	-	1	-	-	-	-	-	-	2	2	-	-	-	2	-	-	-	-	-	-
Pine Warbler	-	2	-	-	3	4	-	-	5	-	-	1	10	-	-	-	-	-	5	1
Prairie Warbler	-	4	-	-	-	16	-	2	68	3	2	12	8	6	-	1	5	-	7	14
Palm Warbler	-	-	-	-	3	1	-	2	4	2	-	-	2	-	-	-	6	2	-	1

NORTH AMERICAN MIGRATION COUNT - MAY 10, 2003																				
	ADAM	ALLE	ARMS	BEAV	BEDF	BERK	BLAI	BRAD	BUCK	BUTL	CAMB	CARB	CENT	CHES	CLAI	CLEA	COLU	CRAW	CUMB	DAUP
Bay-breasted Warbler	-	18	-	-	-	9	-	1	1	2	-	-	4	-	-	1	1	-	3	8
Blackpoll Warbler	-	5	-	-	-	9	-	-	18	3	-	-	-	3	-	1	-	-	5	5
Cerulean Warbler	-	15	-	4	1	2	2	-	3	10	-	-	2	1	-	1	1	-	3	3
Black-and-white Warbler	2	39	-	2	15	75	5	2	132	4	1	5	27	29	6	1	-	1	24	58
American Redstart	-	41	-	-	26	108	8	12	103	19	4	9	71	51	8	2	2	10	68	69
Prothonotary Warbler	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Worm-eating Warbler	-	-	-	-	8	32	4	-	9	-	-	-	6	1	-	-	1	-	8	8
Swainson's Warbler	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ovenbird	8	33	-	-	49	266	19	47	194	40	31	28	145	102	6	14	-	1	133	113
Northern Waterthrush	-	-	-	-	1	2	-	2	13	5	-	-	5	4	-	-	1	1	5	4
Louisiana Waterthrush	1	5	-	-	2	24	2	-	21	7	1	-	7	10	-	-	1	1	5	2
Kentucky Warbler	-	6	-	-	-	1	-	-	1	5	-	1	1	1	1	-	-	1	6	5
Connecticut Warbler	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mourning Warbler	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-
Common Yellowthroat	1	40	2	10	34	189	10	32	254	41	28	33	247	116	42	3	2	18	86	146
Hooded Warbler	1	46	-	3	2	26	3	2	3	15	-	5	16	1	-	1	-	11	30	17
Wilson's Warbler	-	-	-	-	-	8	-	-	2	2	1	1	2	1	-	-	-	-	-	4
Canada Warbler	-	6	-	-	2	7	1	-	8	-	3	-	12	7	-	-	-	-	2	1
Yellow-breasted Chat	-	7	-	-	-	2	1	-	-	4	1	-	2	1	-	-	2	-	9	9
Summer Tanager	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Scarlet Tanager	1	102	-	3	37	133	10	14	90	19	8	4	37	51	10	1	1	10	29	64
Eastern Towhee	3	154	5	6	57	132	13	9	157	16	37	11	198	94	17	16	-	4	86	80
American Tree Sparrow	-	-	-	-	12	-	-	-	-	-	-	-	-	1	-	3	-	-	-	-
Chipping Sparrow	14	64	15	1	67	126	4	28	118	101	39	31	168	62	29	30	17	19	139	76
Clay-colored Sparrow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Sparrow	1	30	-	-	6	36	2	6	55	19	15	7	55	19	16	4	9	8	36	37
Vesper Sparrow	-	-	-	-	2	-	-	-	-	2	6	-	4	-	-	-	-	1	6	3
Savannah Sparrow	-	6	-	-	-	1	-	2	10	9	11	-	7	3	-	-	2	3	7	10
Grasshopper Sparrow	-	12	-	-	-	1	-	-	-	6	11	1	13	7	12	1	1	-	7	6
Henslow's Sparrow	-	3	-	-	-	-	-	-	-	3	-	-	-	-	13	-	-	-	-	-
Fox Sparrow	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-
Song Sparrow	1	175	2	7	45	140	3	82	300	53	17	33	229	116	24	14	15	22	122	128
Lincoln's Sparrow	-	1	-	-	-	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-
Swamp Sparrow	-	1	-	-	1	4	-	2	19	69	3	3	15	5	5	-	-	7	2	-
White-throated Sparrow	4	16	1	-	8	111	5	4	117	7	5	11	44	46	9	6	-	2	151	78
White-crowned Sparrow	-	33	-	-	-	7	2	7	7	3	1	4	16	6	2	8	3	2	21	7
Dark-eyed Junco	-	-	-	-	1	-	-	10	-	-	4	-	12	-	-	-	1	1	-	2
Northern Cardinal	6	204	19	5	76	313	2	33	385	77	29	22	128	159	16	23	7	35	146	152
Rose-breasted Grosbeak	4	68	8	-	9	101	5	38	84	21	18	9	35	14	10	14	-	16	55	17
Blue Grosbeak	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-

NORTH AMERICAN MIGRATION COUNT - MAY 10, 2003

	ADAM	ALLE	ARMS	BEAV	BEDF	BERK	BLAI	BRAD	BUCK	BUTL	CAMB	CARB	CENT	CHES	CLAI	CLEA	COLU	CRAW	CUMB	DAUP
Indigo Bunting	4	97	4	1	29	81	4	2	41	7	8	5	29	19	4	6	-	9	72	83
Bobolink	-	10	-	-	8	29	-	8	31	18	21	-	2	110	21	-	4	12	22	58
Red-winged Blackbird	-	161	26	27	234	308	-	153	603	111	188	62	581	204	79	63	79	199	258	305
Eastern Meadowlark	-	12	-	-	20	5	-	4	7	12	12	3	35	19	-	3	-	8	17	21
Rusty Blackbird	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4	-	-
Common Grackle	7	225	88	4	290	333	-	76	660	187	111	24	424	87	9	88	79	34	390	330
Brown-headed Cowbird	2	59	-	-	22	142	6	16	244	77	15	15	37	80	4	26	92	16	51	69
blackbird sp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	-	-
Orchard Oriole	-	12	-	-	7	10	-	-	15	15	-	-	1	4	-	-	-	-	4	13
Baltimore Oriole	6	181	24	6	37	178	1	41	193	53	2	30	114	84	15	8	2	17	52	92
Purple Finch	-	-	-	-	17	-	-	2	4	21	1	2	2	-	-	10	12	2	-	-
House Finch	4	60	10	3	41	180	-	32	158	47	8	2	49	54	-	27	18	7	98	84
American Goldfinch	12	166	15	7	93	304	12	45	319	69	27	64	228	110	19	48	32	28	141	92
Evening Grosbeak	-	-	-	-	-	-	-	10	-	-	-	-	-	-	-	-	-	-	-	-
House Sparrow	-	117	6	-	103	145	-	20	138	171	25	5	248	39	10	51	37	47	185	67
Monk Parakeet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mandarin Duck	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total birds	230	6104	631	247	3780	10376	227	1987	48023	4269	2207	1495	7553	5393	851	1208	962	1727	6350	7668
Total species	58	132	44	54	143	152	57	106	167	149	104	89	143	136	84	93	97	104	156	163
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total observers	4	39	6	2	34	38	3	22	79	3	10	6	16	32	6	20	2	5	18	33
Hours foot	0.5	79	2	4.25	28	95	12	55.25	146.75	8	14.75	12.25	40.5	58.1	7	23.5	5	16.75	51.5	70
Hours car	2	12	2	-	78	14	-	4.5	34.5	4	14.25	3.5	49.75	23.8	11	3	5	4	18.5	23.75
Hours other	-	7	-	1	59.5	48.5	-	35.5	9.5	-	23.5	3	1.5	2	-	44.25	2	-	-	11
Total hours	2.5	98	4	5.25	165.5	157.5	12	95.25	190.75	12	52.5	18.75	91.75	83.9	18	70.75	12	20.75	70	104.75

NORTH AMERICAN MIGRATION COUNT - MAY 10, 2003

	DELA	ELK	ERIE	FAYE	FORE	FRAN	FULT	GREE	HUNT	INDI	JUNI	LANC	LAWR	LEBA	LEHI	LUZE	LYCO	McKE	MERC	MIFF
Red-shouldered Hawk	-	2	-	-	-	-	-	-	2	-	1	-	-	3	-	-	-	1	-	-
Broad-winged Hawk	1	1	-	1	3	1	1	1	4	4	2	6	-	5	-	4	2	2	-	-
Red-tailed Hawk	2	-	-	2	-	45	1	26	5	51	27	34	13	13	7	16	7	6	6	5
Buteo sp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
American Kestrel	1	1	1	-	-	15	-	9	3	11	13	21	1	11	5	9	3	1	3	5
Merlin	-	-	1	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-
Peregrine Falcon	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	1	1	-	-	-
Ring-necked Pheasant	-	-	-	-	-	3	-	1	-	5	7	1	1	-	-	4	-	-	2	3
Ruffed Grouse	-	-	-	-	5	-	-	-	1	15	-	-	-	3	-	11	7	3	4	4
Wild Turkey	-	7	3	1	4	5	3	94	3	52	4	1	6	2	5	19	12	8	2	2
Northern Bobwhite	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1
Virginia Rail	-	-	1	-	-	-	-	-	-	-	-	2	1	2	-	-	-	3	-	-
Sora	-	-	1	-	-	-	-	-	-	-	-	3	2	1	-	1	-	2	5	-
Common Moorhen	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
American Coot	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sandhill Crane	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-
Black-bellied Plover	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Semipalmated Plover	-	-	-	-	-	-	-	-	-	3	-	1	1	-	-	2	-	-	-	-
Killdeer	-	2	7	3	7	71	1	29	11	62	23	33	24	6	4	69	2	7	5	17
Greater Yellowlegs	-	-	1	-	-	6	-	1	1	1	-	-	3	1	1	2	-	1	-	-
Lesser Yellowlegs	-	-	2	-	-	13	1	2	-	1	-	16	2	4	-	4	-	3	-	-
Solitary Sandpiper	-	-	-	-	-	43	1	2	2	8	7	20	5	-	2	15	1	16	1	2
Willet	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Spotted Sandpiper	1	-	18	7	-	56	3	14	12	12	61	47	3	18	4	15	11	4	-	-
Upland Sandpiper	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
Whimbrel	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ruddy Turnstone	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Semipalmated Sandpiper	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Least Sandpiper	-	-	8	-	-	41	-	-	3	5	-	73	-	2	6	3	-	2	-	-
peep sp.	-	-	-	-	-	-	-	6	-	-	-	4	51	-	-	-	-	-	-	-
Pectoral Sandpiper	-	-	2	-	-	4	-	-	-	-	-	1	3	-	-	1	-	3	-	-
Dunlin	-	-	3	-	-	-	-	-	-	2	-	8	5	-	-	-	-	-	-	-
Short-billed Dowitcher	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-
Wilson's Snipe	-	-	-	-	-	2	-	-	-	-	4	2	-	-	-	-	-	28	-	-
American Woodcock	-	-	26	-	-	1	-	1	5	12	4	1	-	3	-	2	-	29	-	-
Red-necked Phalarope	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Laughing Gull	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bonaparte's Gull	-	-	14	-	1	1	-	-	2	1	1	18	-	-	-	-	-	-	-	-
Ring-billed Gull	12	-	500	-	-	30	-	-	33	15	3	1769	7	31	-	18	-	7	2	-
Herring Gull	1	-	250	-	-	-	-	-	1	-	-	3	-	-	-	-	-	1	-	-
Iceland Gull	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lesser Black-backed Gull	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Glaucaus Gull	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Great Black-backed Gull	-	-	32	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-
gull sp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

NORTH AMERICAN MIGRATION COUNT - MAY 10, 2003																				
	DELA	ELK	ERIE	FAYE	FORE	FRAN	FULT	GREE	HUNT	INDI	JUNI	LANC	LAWR	LEBA	LEHI	LUZE	LYCO	McKE	MERC	MIFF
Caspian Tern	-	-	1	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-
Common Tern	-	-	125	-	3	3	-	-	-	1	1	2	-	-	-	3	-	-	12	-
Forster's Tern	-	-	1	-	20	-	-	-	13	20	-	8	-	-	-	-	-	-	-	-
Black Tern	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
tern sp.	-	-	-	-	-	-	-	-	-	-	-	7	-	-	-	-	-	-	2	-
Rock Dove	19	21	-	4	10	415	16	55	60	109	211	240	40	385	10	155	68	5	25	171
Eurasian Collared-Dove	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mourning Dove	70	60	39	17	14	295	13	172	20	456	84	209	39	111	59	149	33	57	25	66
Black-billed Cuckoo	-	-	-	-	-	2	-	6	-	9	-	1	2	-	1	-	-	-	1	2
Yellow-billed Cuckoo	1	-	-	-	-	7	2	7	-	5	5	16	-	8	-	1	1	-	-	1
cuckoo sp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barn Owl	-	-	-	-	-	5	-	-	-	-	3	-	-	-	-	-	-	-	-	-
Eastern Screech-Owl	-	-	-	-	-	5	-	2	-	-	1	4	-	7	-	2	1	9	-	-
Great Horned Owl	1	1	-	-	-	4	-	-	-	-	3	5	-	2	1	5	1	2	1	1
Barred Owl	-	1	-	-	1	4	1	3	3	2	3	-	-	2	-	2	-	15	4	-
Northern Saw-whet Owl	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	1	-	3	-	-
Common Nighthawk	-	-	-	-	-	-	-	-	-	3	-	1	1	-	1	1	-	2	1	-
Whip-poor-will	-	-	6	-	1	6	-	1	24	3	6	-	-	-	-	4	2	-	-	2
Chimney Swift	35	-	4	23	4	147	17	196	3	223	214	188	98	135	26	100	17	3	21	36
Ruby-throated Hummingbird	9	14	2	9	8	62	3	26	6	59	19	28	2	14	4	6	2	12	5	29
Belted Kingfisher	2	1	2	3	3	24	2	12	5	11	14	8	2	10	4	8	11	5	-	6
Red-headed Woodpecker	-	-	7	-	-	11	-	2	4	-	-	3	2	-	-	-	-	-	2	2
Red-bellied Woodpecker	32	-	-	4	3	107	1	41	23	60	42	76	10	43	24	19	13	2	11	27
Yellow-bellied Sapsucker	-	4	-	-	2	1	-	-	-	-	-	1	-	-	-	8	1	41	1	-
Downy Woodpecker	7	5	6	5	1	78	1	28	8	48	37	48	8	31	23	32	12	12	6	21
Hairy Woodpecker	4	3	3	1	-	13	-	8	3	13	19	10	-	9	3	16	7	5	2	12
Northern Flicker	23	14	13	5	5	91	2	43	47	95	39	52	6	24	9	43	31	10	4	35
Pileated Woodpecker	2	1	3	-	1	21	1	18	12	13	21	9	-	10	-	17	6	2	1	15
Olive-sided Flycatcher	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
Eastern Wood-Pewee	2	-	1	-	-	20	4	16	1	8	14	9	4	3	-	4	3	1	2	2
Yellow-bellied Flycatcher	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-
Acadian Flycatcher	2	-	-	1	-	3	6	-	3	9	16	5	-	2	-	2	2	-	5	1
Alder Flycatcher	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	1	-	-
Willow Flycatcher	1	-	2	-	-	-	-	-	-	5	1	2	5	1	-	-	-	-	-	-
Least Flycatcher	1	-	4	-	1	1	-	-	4	12	2	4	3	-	-	29	8	31	2	-
empid sp.	-	-	-	-	-	1	-	-	5	1	-	1	-	-	-	-	1	-	-	-
Eastern Phoebe	2	5	1	9	7	43	2	54	17	81	30	21	3	12	6	32	21	27	3	-
Great Crested Flycatcher	2	-	6	-	-	51	8	5	22	11	39	52	3	25	6	17	12	2	3	34
Eastern Kingbird	9	-	7	1	-	60	6	32	4	14	38	54	12	23	12	9	13	9	3	1
Loggerhead Shrike	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
White-eyed Vireo	1	-	-	-	-	4	-	24	-	4	1	32	2	14	2	1	-	-	3	3
Blue-headed Vireo	2	-	1	2	9	7	-	11	14	27	6	5	-	9	-	15	9	38	3	5
Yellow-throated Vireo	6	-	-	1	-	6	6	9	3	12	5	5	3	4	1	8	-	-	2	2
Warbling Vireo	16	-	27	4	-	13	5	12	-	12	46	24	14	7	20	15	-	5	3	-
Philadelphia Vireo	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	1	-	-

NORTH AMERICAN MIGRATION COUNT - MAY 10, 2003

	DELA	ELK	ERIE	FAYE	FORE	FRAN	FULT	GREE	HUNT	INDI	JUNI	LANC	LAWR	LEBA	LEHI	LUZE	LYCO	McKE	MERC	MIFF
Red-eyed Vireo	21	-	-	27	15	143	38	117	72	175	185	142	27	137	22	56	39	31	12	40
vireo sp.	-	-	-	-	-	-	-	-	6	-	-	-	-	1	-	-	-	-	-	-
Blue Jay	39	23	180	12	20	283	11	148	53	391	250	397	29	247	111	113	36	83	17	105
American Crow	61	20	28	26	25	298	3	173	86	599	292	249	43	215	109	276	182	57	15	163
Fish Crow	1	-	-	-	-	17	-	-	5	7	10	100	-	15	1	36	6	-	-	2
crow sp.	-	-	-	-	-	5	-	-	-	-	-	35	-	5	-	-	-	-	-	-
Common Raven	-	2	-	4	-	2	1	2	2	6	2	-	-	-	-	9	7	5	-	5
Horned Lark	-	-	-	-	-	22	1	-	-	21	5	13	3	2	-	6	-	-	4	7
Purple Martin	-	-	7	-	-	46	7	66	-	-	70	150	81	40	-	8	17	1	175	50
Tree Swallow	163	30	311	39	13	190	10	145	78	235	157	461	41	360	24	145	238	86	18	20
N. Rough-winged Swallow	2	-	11	10	10	50	3	42	5	29	48	58	9	91	6	74	17	12	3	1
Bank Swallow	-	-	150	2	9	6	-	3	1	18	3	121	530	20	-	82	4	2	-	-
Cliff Swallow	2	-	8	55	12	-	-	-	1	1	19	10	-	1	1	56	11	83	2	-
Barn Swallow	15	2	150	36	35	449	17	234	78	431	432	418	93	239	54	190	246	79	20	80
swallow sp	-	-	-	-	-	-	-	-	-	-	-	250	-	150	-	-	-	-	-	-
Carolina Chickadee	30	-	-	-	-	18	-	46	-	-	-	92	-	44	-	-	-	-	-	-
Black-capped Chickadee	-	21	7	9	13	65	1	-	35	142	36	16	28	25	18	110	40	99	10	40
chickadee sp.	-	-	-	-	-	2	-	-	-	-	-	25	-	7	-	-	-	-	-	-
Tufted Titmouse	41	15	1	-	9	141	7	80	43	172	141	123	21	96	27	72	48	33	8	79
Red-breasted Nuthatch	-	-	-	-	-	2	-	-	5	1	1	-	-	-	1	-	-	2	-	-
White-breasted Nuthatch	2	12	1	3	5	40	1	13	4	70	39	23	12	13	11	15	10	27	5	7
Brown Creeper	-	3	-	-	-	-	-	-	6	1	-	-	-	-	-	1	1	1	-	1
Carolina Wren	11	-	-	1	-	55	7	38	5	22	50	40	2	11	7	30	4	3	3	23
House Wren	21	1	12	1	1	102	1	51	10	61	44	67	16	31	5	51	14	7	3	18
Winter Wren	-	-	-	1	-	3	-	-	2	-	-	-	-	3	-	2	3	5	1	-
Marsh Wren	-	-	2	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
Golden-crowned Kinglet	-	-	-	-	-	2	-	-	-	1	1	-	-	1	-	1	-	-	-	-
Ruby-crowned Kinglet	2	-	4	-	-	4	-	-	4	1	12	8	-	13	-	6	2	4	1	3
Blue-gray Gnatcatcher	8	-	4	1	10	38	12	28	25	38	38	90	7	47	9	45	20	12	4	27
Eastern Bluebird	22	-	-	2	2	149	3	95	14	136	63	59	11	43	2	34	15	12	2	34
Veery	7	-	8	-	-	8	-	-	1	-	3	75	1	29	3	18	-	5	3	-
Gray-cheeked Thrush	-	-	-	-	-	-	-	-	2	-	-	-	-	2	-	-	-	-	-	-
Bicknell's Thrush	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Swainson's Thrush	-	-	26	1	-	1	-	-	2	3	6	19	-	43	-	-	-	2	-	-
Hermit Thrush	-	7	-	-	10	3	-	-	5	10	-	1	-	-	-	11	12	9	-	1
Wood Thrush	41	-	32	12	5	163	35	152	112	348	95	266	27	245	75	53	42	15	27	64
thrush sp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
American Robin	160	64	69	65	43	786	10	675	106	1408	236	681	121	727	109	399	138	113	41	281
Gray Catbird	66	-	42	21	13	303	14	130	60	297	216	388	28	468	82	191	65	21	18	54
Northern Mockingbird	13	-	1	-	-	78	4	52	1	15	18	60	1	17	11	13	7	-	2	28
Brown Thrasher	1	-	8	-	2	58	6	29	4	35	11	12	2	9	1	13	3	3	1	22
European Starling	33	36	31	48	33	1049	15	725	32	974	338	803	215	2409	56	291	80	61	73	223
American Pipit	-	-	21	-	-	230	-	-	-	-	27	28	-	10	-	-	-	-	-	3
Cedar Waxwing	-	-	-	12	1	38	-	1	20	17	70	101	6	9	-	14	13	19	7	9
Blue-winged Warbler	2	-	-	-	4	2	-	237	2	28	3	34	8	24	4	11	-	8	10	-

NORTH AMERICAN MIGRATION COUNT - MAY 10, 2003																				
	DELA	ELK	ERIE	FAYE	FORE	FRAN	FULT	GREE	HUNT	INDI	JUNI	LANC	LAWR	LEBA	LEHI	LUZE	LYCO	McKE	MERC	MIFF
Golden-winged Warbler	-	-	-	4	1	1	1	9	16	1	5	1	-	-	-	1	1	-	-	1
Brewster's Warbler	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Lawrence's Warbler	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-
Tennessee Warbler	1	-	1	3	-	1	-	1	2	10	1	6	-	3	1	6	-	1	2	-
Orange-crowned Warbler	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nashville Warbler	-	-	8	-	-	1	9	-	6	7	4	19	1	15	-	10	13	8	1	5
Northern Parula	1	-	1	7	9	9	2	11	7	10	3	33	-	14	2	10	6	1	-	-
Yellow Warbler	23	7	470	22	32	76	6	250	29	238	60	87	67	153	23	152	38	71	18	43
Chestnut-sided Warbler	9	-	10	7	15	26	1	2	7	43	8	39	2	19	5	35	20	64	4	6
Magnolia Warbler	1	1	12	2	24	6	-	3	16	20	12	22	6	7	2	11	6	69	2	10
Cape May Warbler	-	-	3	-	-	-	-	-	-	1	1	-	-	-	-	2	-	-	-	-
Black-throated Blue Warbler	7	-	9	-	1	30	5	-	5	4	18	64	-	54	5	17	16	20	2	3
Yellow-rumped Warbler	59	1	157	18	2	61	-	23	26	8	191	597	22	552	63	124	54	22	4	7
Black-throated Green Warbler	5	-	14	11	25	33	13	7	50	119	42	51	4	80	5	102	142	171	8	32
Blackburnian Warbler	-	-	4	2	10	10	3	-	12	19	7	29	2	11	-	42	27	109	1	2
Yellow-throated Warbler	-	-	-	5	-	8	-	3	-	7	-	5	5	-	-	1	-	-	-	1
Pine Warbler	1	-	2	-	-	3	-	-	1	3	2	-	1	-	-	1	10	-	-	2
Prairie Warbler	1	-	-	2	-	6	2	8	-	31	7	6	-	4	-	46	8	-	-	2
Palm Warbler	-	-	85	-	-	2	-	1	1	3	1	-	-	1	-	2	3	-	3	-
Bay-breasted Warbler	1	-	2	3	-	1	-	1	1	10	-	28	-	1	2	4	-	4	-	1
Blackpoll Warbler	1	-	1	1	-	1	-	1	-	-	1	4	-	-	-	4	-	1	-	-
Cerulean Warbler	-	-	-	3	-	4	4	14	2	12	7	2	6	1	2	1	-	7	7	-
Black-and-white Warbler	6	-	18	7	5	22	6	6	6	29	28	70	3	56	22	48	36	16	4	22
American Redstart	9	-	10	18	4	52	12	69	21	84	36	70	1	70	20	87	39	67	19	18
Prothonotary Warbler	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-	-	-	1	-
Worm-eating Warbler	1	-	-	-	-	5	2	1	10	1	33	17	-	7	5	13	1	-	-	15
Swainson's Warbler	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Ovenbird	3	7	4	7	32	150	15	55	172	266	133	219	2	455	24	157	142	67	10	105
Northern Waterthrush	2	-	1	-	-	2	-	-	1	1	2	5	-	1	2	4	1	3	2	-
Louisiana Waterthrush	1	-	-	-	-	9	1	19	13	8	20	24	-	4	3	9	7	1	5	1
Kentucky Warbler	-	-	-	-	-	2	3	20	-	5	-	9	-	2	-	-	-	-	4	-
Connecticut Warbler	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mourning Warbler	-	-	1	-	-	1	-	-	-	1	-	-	-	-	-	-	-	2	-	-
Common Yellowthroat	27	1	28	23	22	150	5	210	126	449	101	171	80	222	22	191	76	99	13	69
Hooded Warbler	-	-	1	7	1	12	2	8	10	74	20	7	3	23	2	5	18	6	10	4
Wilson's Warbler	-	-	1	-	-	-	-	-	1	-	3	14	-	6	1	2	-	1	-	1
Canada Warbler	-	-	-	3	-	-	-	1	3	-	-	4	-	1	-	3	10	2	1	-
Yellow-breasted Chat	-	-	1	2	-	5	-	19	1	8	2	19	-	-	-	2	-	-	-	6
Summer Tanager	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Scarlet Tanager	4	-	2	19	8	83	10	75	44	149	118	132	9	56	10	83	38	8	16	48
Eastern Towhee	6	-	33	41	7	167	18	311	93	443	91	95	30	81	14	75	91	26	16	66
American Tree Sparrow	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-
Chipping Sparrow	12	28	14	17	16	225	4	113	90	464	179	146	46	24	55	139	92	109	12	106
Clay-colored Sparrow	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Sparrow	5	-	1	7	5	54	10	81	23	133	71	42	23	21	8	76	28	29	3	25

NORTH AMERICAN MIGRATION COUNT - MAY 10, 2003

	DELA	ELK	ERIE	FAYE	FORE	FRAN	FULT	GREE	HUNT	INDI	JUNI	LANC	LAWR	LEBA	LEHI	LUZE	LYCO	McKE	MERC	MIFF
Vesper Sparrow	-	-	-	1	-	13	1	-	3	7	4	5	-	-	-	-	-	-	-	5
Savannah Sparrow	-	-	7	8	-	18	-	13	3	7	6	21	8	4	2	6	-	14	6	9
Grasshopper Sparrow	-	-	-	6	-	25	6	9	-	20	2	8	6	3	1	7	-	1	1	1
Henslow's Sparrow	-	-	-	-	-	2	-	-	-	16	-	-	5	-	-	-	-	-	-	-
Fox Sparrow	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
Song Sparrow	41	19	39	8	24	278	6	198	40	367	208	160	105	41	14	179	56	55	13	133
Lincoln's Sparrow	-	-	4	2	-	-	-	-	-	1	-	4	4	1	-	2	-	1	-	-
Swamp Sparrow	2	-	10	2	-	1	-	-	2	5	2	4	9	1	-	14	7	53	9	-
White-throated Sparrow	18	11	29	-	1	92	8	2	4	14	57	138	-	297	15	47	24	12	6	60
White-crowned Sparrow	-	9	90	2	3	67	1	27	6	42	21	27	21	9	4	6	10	4	3	10
Dark-eyed Junco	-	14	1	-	2	1	-	1	2	7	6	-	-	-	-	16	19	37	2	6
Northern Cardinal	51	20	10	9	19	335	8	241	39	310	21	302	50	174	42	97	57	35	18	94
Rose-breasted Grosbeak	-	7	40	20	21	39	7	35	19	155	33	71	28	19	14	80	18	35	18	26
Blue Grosbeak	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indigo Bunting	4	9	1	27	5	109	18	145	23	188	169	127	18	56	2	55	10	21	16	82
Bobolink	-	2	63	8	8	33	5	22	2	43	3	133	87	17	25	39	8	12	12	7
Red-winged Blackbird	84	72	319	72	41	352	18	609	111	1196	308	360	261	186	104	322	282	142	150	162
Eastern Meadowlark	-	-	-	11	3	56	15	69	10	124	11	14	35	8	10	40	7	19	9	15
Rusty Blackbird	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Common Grackle	32	82	67	63	27	1155	12	144	86	929	614	552	139	1196	111	207	172	107	23	262
Brown-headed Cowbird	30	42	108	50	-	133	6	127	10	109	101	254	11	87	13	147	47	16	32	122
blackbird sp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Orchard Oriole	2	-	-	-	-	16	4	52	2	18	13	61	11	7	-	1	-	-	3	2
Baltimore Oriole	40	-	66	23	17	166	15	119	42	213	202	175	51	81	17	70	40	31	17	99
Purple Finch	-	9	-	3	4	9	-	1	-	39	-	-	2	15	-	3	-	13	3	1
House Finch	43	11	6	7	6	179	1	56	2	137	66	109	23	76	24	67	21	36	2	145
American Goldfinch	36	32	138	13	28	405	5	98	86	273	228	295	87	252	58	190	72	80	29	85
Evening Grosbeak	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
House Sparrow	22	-	50	7	16	429	1	261	17	354	175	298	85	1186	10	44	35	53	40	301
Monk Parakeet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mandarin Duck	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-
Total birds	1722	810	4834	1144	933	12674	629	8544	2710	15010	7912	15614	3427	16223	1925	6918	3661	3261	1383	4328
Total species	100	58	130	97	88	160	97	120	135	148	145	168	112	146	99	157	120	138	122	114
Total observers	23	5	15	27	3	72	2	38	10	72	19	43	5	16	4	22	12	7	9	17
Hours foot	16	5	38	9	3.5	60	2	12.5	28	85.6	37	110.75	7.25	63.25	13	55	42	3	13	38
Hours car	2.5	3	2	5.5	9.25	75	8	67.5	12	58.25	15	24.5	16.5	11.5	2	26	8.5	19	3	16
Hours other	1.5	17	3	-	7.25	89	-	24	5	82.75	9	19.5	-	11	8	4	10	1	1	6.5
Total hours	20	25	43	14.5	20	224	10	104	45	226.6	61	154.75	23.75	85.75	23	85	60.5	23	17	60.5

NORTH AMERICAN MIGRATION COUNT - MAY 10, 2003																						
	MON'G	MON'O	NORH	NUMB	PERR	PHIL	PIKE	POTT	SCHU	SOME	SULL	SUSQ	TIOG	UNIO	VENA	WARR	WASH	WAYN	WEST	WYOM	YORK	
Red-throated Loon	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Common Loon	1	2	-	2	-	3	1	-	11	1	-	-	-	-	2	-	-	-	5	1	5	-
Pied-billed Grebe	-	-	-	-	-	1	-	-	1	-	-	-	-	-	2	-	-	-	-	-	1	-
Horned Grebe	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
Red-necked Grebe	-	-	-	-	-	1	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Great Cormorant	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Double-crested Cormorant	106	2	17	15	-	80	-	-	3	2	-	-	15	-	6	2	-	2	10	2	7	-
American Bittern	-	-	-	1	-	-	-	-	2	-	-	-	-	-	-	-	-	-	1	-	-	-
Least Bittern	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Great Blue Heron	14	-	12	3	-	20	17	8	23	-	2	5	54	-	16	-	104	11	24	6	8	8
Great Egret	-	-	-	-	2	6	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	15
Snowy Egret	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Green Heron	5	1	4	2	-	7	-	4	13	1	-	1	5	2	3	-	1	4	6	8	3	3
Black-crowned Night-Heron	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	5
Black Vulture	-	-	9	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	9
Turkey Vulture	19	1	62	16	11	4	8	25	177	3	14	1	19	2	50	16	19	46	42	20	32	-
Snow Goose	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
Canada Goose	109	22	276	40	-	103	90	158	286	10	13	31	143	15	82	36	38	94	349	81	235	-
Mute Swan	-	-	8	-	2	-	-	-	3	-	-	-	-	-	-	-	-	-	11	-	1	-
Tundra Swan	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wood Duck	26	-	11	17	-	39	4	33	25	6	2	-	1	-	8	-	1	25	13	18	25	-
Gadwall	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
American Wigeon	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-
American Black Duck	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	1	-
Mallard	41	19	81	19	-	52	32	38	120	5	8	4	41	25	19	64	16	23	139	18	54	-
Blue-winged Teal	-	-	-	-	-	-	-	-	-	2	-	-	-	-	2	-	-	-	4	-	-	-
Northern Shoveler	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Northern Pintail	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Green-winged Teal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring-necked Duck	-	-	2	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	2	-
Greater Scaup	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lesser Scaup	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bufflehead	-	-	-	-	-	-	-	1	-	-	1	-	3	-	-	-	-	-	-	-	-	-
Common Goldeneye	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
Hooded Merganser	-	-	-	-	-	-	2	3	-	-	5	-	1	-	-	-	-	3	1	1	1	-
Common Merganser	-	-	9	7	-	1	-	19	-	-	2	7	14	-	1	1	-	12	-	15	1	-
Red-breasted Merganser	-	-	-	-	-	-	2	1	-	-	-	-	-	-	-	-	-	-	2	-	-	-
Ruddy Duck	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-
Osprey	3	1	35	3	3	5	1	1	14	1	2	1	13	2	1	-	-	4	3	4	5	-
Bald Eagle	2	-	5	-	-	-	5	1	2	-	-	-	4	-	1	-	-	5	-	2	-	-

NORTH AMERICAN MIGRATION COUNT - MAY 10, 2003

	MON'G	MONO	NORH	NUMB	PERR	PHIL	PIKE	POTT	SCHU	SOME	SULL	SUSQ	TIOG	UNIO	VENA	WARR	WASH	WAYN	WEST	WYOM	YORK
Northern Harrier	-	-	-	-	3	-	-	-	3	-	2	-	3	-	1	-	-	3	-	1	1
Sharp-shinned Hawk	2	-	4	1	-	-	1	1	1	1	-	-	-	-	-	-	-	4	2	1	2
Cooper's Hawk	-	-	7	1	1	-	1	-	3	1	-	-	-	-	1	1	1	1	7	2	1
Northern Goshawk	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-
Accipiter sp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Red-shouldered Hawk	2	-	-	-	2	-	1	1	2	-	1	-	-	-	1	1	-	-	2	1	1
Broad-winged Hawk	2	-	6	-	4	-	1	2	8	1	3	-	-	-	1	-	-	3	2	1	-
Red-tailed Hawk	8	-	28	6	6	-	4	9	44	-	3	3	15	1	18	10	9	14	40	15	14
Buteo sp.	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-
American Kestrel	1	1	14	7	-	-	-	3	17	-	4	-	1	3	2	2	1	3	12	5	4
Merlin	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Peregrine Falcon	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Ring-necked Pheasant	-	1	1	4	-	8	-	2	11	-	-	-	-	-	2	-	2	1	9	-	2
Ruffed Grouse	-	-	1	1	1	-	-	8	11	-	4	3	3	2	5	3	-	4	5	2	-
Wild Turkey	16	1	17	4	8	-	5	12	63	-	1	5	23	3	8	4	21	33	19	26	1
Northern Bobwhite	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	3
Virginia Rail	-	-	-	1	-	-	-	-	-	-	-	-	3	-	1	-	-	-	-	1	-
Sora	-	-	-	2	-	2	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-
Common Moorhen	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
American Coot	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sandhill Crane	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Black-bellied Plover	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Semipalmated Plover	-	-	-	-	-	2	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-
Killdeer	4	-	8	7	-	1	-	14	31	8	1	7	2	1	13	6	1	10	50	15	9
Greater Yellowlegs	-	-	3	1	-	2	-	1	-	3	-	1	-	1	2	-	-	-	1	-	10
Lesser Yellowlegs	-	-	7	1	-	3	-	1	-	2	-	-	-	3	-	-	-	-	-	1	14
Solitary Sandpiper	3	-	44	2	-	2	-	4	12	2	-	-	1	-	3	-	-	3	2	1	4
Willet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Spotted Sandpiper	5	4	22	2	5	11	-	2	48	8	-	-	-	3	4	-	-	3	11	11	37
Upland Sandpiper	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-
Whimbrel	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
Ruddy Turnstone	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Semipalmated Sandpiper	-	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	3	-	1
Least Sandpiper	4	-	23	-	-	12	-	-	-	-	-	1	-	-	5	-	-	-	1	-	21
peep sp.	-	-	-	-	-	120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pectoral Sandpiper	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dunlin	-	-	1	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-	-	1
Short-billed Dowitcher	-	-	-	-	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-
Wilson's Snipe	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
American Woodcock	-	-	-	1	-	-	-	6	1	-	-	3	-	-	2	-	-	1	-	-	2

NORTH AMERICAN MIGRATION COUNT - MAY 10, 2003																						
	MON'G	MON'O	NORH	NUMB	PERR	PHIL	PIKE	POTT	SCHU	SOME	SULL	SUSQ	TIOG	UNIO	VENA	WARR	WASH	WAYN	WEST	WYOM	YORK	
Red-necked Phalarope	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Laughing Gull	-	-	-	-	-	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bonaparte's Gull	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	45
Ring-billed Gull	-	1	90	34	-	152	-	-	-	2	-	-	1	-	13	-	-	-	-	-	-	65
Herring Gull	-	-	8	-	-	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iceland Gull	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lesser Black-backed Gull	-	-	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Glauous Gull	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Great Black-backed Gull	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
gull sp.	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Caspian Tern	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Common Tern	-	-	-	3	-	-	-	-	-	-	-	-	-	-	28	-	-	-	-	-	-	-
Forster's Tern	2	-	-	-	-	11	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	2
Black Tern	-	-	-	2	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
tern sp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rock Dove	60	-	46	150	33	76	-	17	101	9	12	1	37	10	30	29	-	34	111	57	12	
Eurasian Collared-Dove	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mourning Dove	91	10	116	101	20	62	15	84	257	4	9	35	79	20	46	40	14	109	204	62	87	
Black-billed Cuckoo	2	-	3	1	-	1	-	-	1	-	-	-	-	-	1	-	4	-	9	1	2	
Yellow-billed Cuckoo	4	-	2	3	1	-	-	-	4	-	-	-	-	-	-	-	-	1	7	-	8	
cuckoo sp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barn Owl	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Eastern Screech-Owl	1	1	2	9	-	-	-	-	4	-	-	-	-	-	1	-	-	3	2	4	-	-
Great Horned Owl	3	-	4	5	-	-	2	1	6	-	-	2	-	-	1	1	-	-	3	3	2	2
Barred Owl	-	-	2	2	-	-	-	2	2	-	-	2	2	1	5	1	1	-	2	3	2	2
Northern Saw-whet Owl	-	-	-	-	-	-	-	1	-	-	-	-	-	3	-	-	-	-	-	-	-	-
Common Nighthawk	-	1	7	4	-	5	-	-	-	1	-	-	-	-	10	2	-	-	7	-	-	-
Whip-poor-will	-	-	1	8	-	-	-	-	3	-	-	-	-	3	-	-	-	-	5	-	-	-
Chimney Swift	76	2	50	110	6	92	-	8	47	3	6	-	2	-	25	8	15	13	152	8	22	
Ruby-throated Hummingbird	4	1	12	5	7	3	8	14	34	2	2	2	18	1	3	2	4	18	19	5	6	
Belted Kingfisher	5	-	10	-	1	1	1	11	11	-	2	-	10	-	5	2	3	5	11	4	3	3
Red-headed Woodpecker	-	-	-	3	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	4	-
Red-bellied Woodpecker	17	6	40	19	9	23	12	-	50	-	-	-	3	3	5	-	3	9	55	14	29	29
Yellow-bellied Sapsucker	-	-	-	1	-	-	-	14	-	-	4	1	5	-	2	6	-	24	1	3	-	-
Downy Woodpecker	18	2	34	35	8	12	9	7	53	1	3	2	17	2	2	2	4	32	27	14	22	22
Hairy Woodpecker	4	1	4	2	1	1	3	5	14	1	3	2	12	-	1	-	1	12	12	-	-	9
Northern Flicker	21	2	37	24	3	33	4	16	61	-	3	9	18	2	2	11	1	21	49	23	11	11
Pileated Woodpecker	-	1	5	3	3	-	3	2	31	-	1	-	10	1	1	1	3	5	12	10	4	4
Olive-sided Flycatcher	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	2	-	1	1
Eastern Wood-Pewee	-	-	6	2	1	-	-	-	15	1	-	-	1	-	1	-	11	4	13	-	-	8

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	MON'G	MONO	NORH	NUMB	PERR	PHIL	PIKE	POTT	SCHU	SOME	SULL	SUSQ	TIOG	UNIO	VENA	WARR	WASH	WAYN	WEST	WYOM	YORK
Yellow-bellied Flycatcher	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acadian Flycatcher	-	-	-	1	-	-	-	-	-	-	-	6	-	-	-	-	42	4	20	-	6
Alder Flycatcher	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	1	-	-
Willow Flycatcher	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	1	-	6	-	1
Least Flycatcher	1	-	1	2	-	-	2	2	8	2	4	3	25	-	-	-	4	19	18	14	2
empid sp.	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-
Eastern Phoebe	9	3	20	11	7	-	9	12	47	1	2	-	36	1	3	-	13	31	32	13	19
Great Crested Flycatcher	9	1	17	13	3	18	3	1	41	-	-	-	7	4	2	2	5	6	5	9	26
Eastern Kingbird	27	2	12	12	1	15	2	9	7	1	4	2	4	2	4	3	5	11	31	6	8
Loggerhead Shrike	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
White-eyed Vireo	5	-	5	-	-	11	-	-	8	-	-	-	-	-	1	-	11	-	13	-	9
Blue-headed Vireo	3	-	1	2	-	1	3	4	19	-	3	-	11	7	1	5	1	23	9	4	4
Yellow-throated Vireo	6	-	8	6	3	-	3	-	9	-	1	-	-	-	2	-	4	18	4	2	2
Warbling Vireo	23	1	19	9	1	12	1	1	2	4	-	-	10	3	1	-	9	11	7	6	4
Philadelphia Vireo	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
Red-eyed Vireo	18	1	29	163	16	31	15	3	172	3	1	1	15	9	4	22	91	30	167	22	59
vireo sp.	-	-	-	-	-	-	-	-	12	-	-	-	-	-	-	-	-	-	-	-	-
Blue Jay	77	10	140	61	115	23	24	58	315	10	10	5	90	6	20	18	14	65	140	34	61
American Crow	58	11	115	288	28	33	40	114	420	8	22	21	96	6	34	67	31	195	223	93	102
Fish Crow	4	1	7	7	-	3	18	-	11	-	-	-	25	-	-	-	-	4	-	-	23
crow sp.	-	-	-	-	5	2	-	-	57	-	-	-	-	-	-	-	-	-	-	-	-
Common Raven	-	-	1	1	-	-	-	128	5	-	2	-	7	1	-	-	-	4	1	1	-
Horned Lark	-	-	6	7	-	-	-	-	3	-	-	-	-	1	1	-	1	-	1	-	5
Purple Martin	1	-	2	26	-	-	-	-	42	-	-	-	-	5	-	-	-	-	19	-	14
Tree Swallow	165	5	61	106	13	649	40	114	250	100	24	8	53	5	15	126	10	303	105	108	46
N. Rough-winged Swallow	30	2	44	21	12	24	4	4	75	10	-	10	5	-	3	1	3	10	40	-	21
Bank Swallow	11	-	52	3	-	6	-	20	8	20	-	-	23	-	80	2	-	26	-	12	9
Cliff Swallow	-	-	1	2	-	-	-	68	42	45	-	30	60	1	1	88	-	10	5	-	8
Barn Swallow	56	3	97	155	9	59	6	105	436	70	21	25	113	6	18	28	21	195	192	56	67
swallow sp.	-	-	1	-	-	-	-	83	30	-	-	10	-	-	-	5	-	-	-	-	-
Carolina Chickadee	35	2	1	-	-	19	-	-	-	-	-	-	-	-	-	-	18	-	24	-	43
Black-capped Chickadee	-	-	38	11	8	-	32	88	95	3	13	14	69	6	5	20	-	226	30	49	-
chickadee sp.	1	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	7	-	-
Tufted Titmouse	37	5	103	22	31	24	29	8	152	2	2	2	21	5	3	11	-	30	67	25	33
Red-breasted Nuthatch	-	-	-	-	-	-	1	3	3	-	4	-	1	1	-	5	10	4	-	-	1
White-breasted Nuthatch	10	2	8	5	3	4	11	7	32	-	4	3	12	1	1	8	-	41	13	10	6
Brown Creeper	1	-	-	-	-	-	-	-	4	-	1	-	1	1	-	-	1	3	-	-	1
Carolina Wren	22	3	22	15	5	11	1	1	19	1	-	-	5	4	1	7	-	3	27	14	14
House Wren	13	6	51	16	3	25	3	16	48	2	3	2	34	4	1	1	3	16	17	13	25
Winter Wren	-	-	-	-	-	-	-	2	-	-	-	1	-	-	-	1	9	2	-	-	-

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	MON'G	MON'O	NORH	NUMB	PERR	PHIL	PIKE	POTT	SCHU	SOME	SULL	SUSQ	TIOG	UNIO	VENA	WARR	WASH	WAYN	WEST	WYOM	YORK	
Marsh Wren	-	-	1	-	-	6	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-
Golden-crowned Kinglet	-	-	-	-	-	-	-	-	8	-	2	-	2	-	-	2	-	-	-	4	-	-
Ruby-crowned Kinglet	2	-	-	2	1	1	1	7	14	-	-	-	-	1	-	-	1	2	-	-	-	1
Blue-gray Gnatcatcher	23	1	60	16	6	8	12	-	58	1	-	-	4	3	6	1	34	10	45	10	52	
Eastern Bluebird	26	4	19	30	10	-	4	18	50	6	4	3	13	3	4	3	8	19	53	14	16	
Veery	3	1	11	14	1	8	3	6	24	-	1	1	6	2	1	1	-	16	5	10	75	
Gray-cheeked Thrush	-	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17
Bicknell's Thrush	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Swainson's Thrush	-	1	2	76	2	6	-	-	1	1	-	-	-	-	1	-	-	6	2	-	51	
Hermit Thrush	-	-	3	13	-	-	3	26	6	-	3	-	2	3	1	3	-	18	2	3	31	
Wood Thrush	30	4	137	88	11	33	14	10	156	7	-	4	20	10	21	13	71	6	143	34	77	
thrush sp.	-	-	-	6	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
American Robin	133	17	282	250	30	312	44	190	385	20	25	23	214	15	43	156	87	394	673	150	155	
Gray Catbird	59	23	380	46	19	280	17	22	324	4	6	14	47	9	4	23	44	64	135	62	104	
Northern Mockingbird	9	1	23	6	5	12	-	-	27	-	-	-	-	-	1	-	6	-	32	1	20	
Brown Thrasher	-	3	7	6	4	7	1	6	12	-	2	-	6	1	3	-	4	8	18	4	5	
European Starling	436	6	253	180	11	210	6	168	263	15	21	18	145	190	90	98	83	108	590	63	143	
American Pipit	-	-	-	5	-	-	-	-	-	-	-	-	-	1	4	-	-	-	1	1	7	
Cedar Waxwing	28	7	1	5	53	35	14	-	9	5	1	-	22	-	15	1	-	10	9	-	6	
Blue-winged Warbler	5	-	27	-	5	3	4	6	46	-	-	4	7	-	6	2	18	2	30	2	21	
Golden-winged Warbler	-	-	2	-	1	-	2	-	3	1	-	1	1	-	1	-	-	1	7	-	-	
Brewster's Warbler	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	
Lawrence's Warbler	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	
Tennessee Warbler	-	-	-	5	-	-	-	1	1	-	-	-	-	-	2	6	9	1	3	-	-	
Orange-crowned Warbler	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	
Nashville Warbler	-	-	12	3	-	3	5	-	14	-	3	-	10	-	2	2	2	7	7	1	-	
Northern Parula	12	1	9	2	1	24	11	-	49	-	-	-	-	1	2	1	3	26	4	3	17	
Yellow Warbler	43	6	113	34	7	88	5	64	86	15	9	10	149	5	13	48	81	132	177	46	36	
Chestnut-sided Warbler	3	-	18	4	3	8	3	27	63	3	13	4	37	4	8	6	6	42	33	9	6	
Magnolia Warbler	8	-	19	4	-	15	5	4	31	-	3	-	7	1	2	18	8	5	21	1	6	
Cape May Warbler	-	-	-	2	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	
Black-throated Blue Warbler	15	1	24	5	3	20	4	2	58	2	1	1	10	4	3	8	-	16	20	-	21	
Yellow-rumped Warbler	43	1	119	85	16	227	28	7	461	1	9	3	18	12	5	5	2	58	16	18	65	
Black-throated Green Warbler	11	2	28	15	8	24	20	16	145	5	15	7	60	12	7	41	1	73	71	24	19	
Blackburnian Warbler	3	-	10	2	1	10	5	22	29	2	5	-	33	12	10	65	7	16	12	5	4	
Yellow-throated Warbler	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	1	16	-	9	-	-	
Pine Warbler	2	-	-	-	-	-	7	1	16	3	-	-	-	-	-	-	1	16	1	1	-	
Prairie Warbler	6	1	8	16	7	2	4	2	22	-	4	2	5	-	3	-	-	4	3	6	10	
Palm Warbler	2	-	2	-	-	-	-	-	10	1	-	1	-	1	-	-	1	-	-	-	-	
Bay-breasted Warbler	2	-	1	1	3	-	-	-	8	-	-	-	-	1	1	1	-	1	3	-	1	

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	MON'G	MONO	NORH	NUMB	PERR	PHIL	PIKE	POTT	SCHU	SOME	SULL	SUSQ	TIOG	UNIO	VENA	WARR	WASH	WAYN	WEST	WYOM	YORK	
Blackpoll Warbler	5	-	-	1	6	28	-	-	1	-	-	1	-	-	-	-	1	-	4	-	8	
Cerulean Warbler	-	-	1	1	-	-	-	-	1	-	-	-	-	-	-	1	3	36	5	15	1	3
Black-and-white Warbler	14	1	32	9	4	19	22	2	136	6	6	2	8	3	5	4	9	46	35	11	10	
American Redstart	21	1	55	19	4	21	6	2	74	10	1	2	46	4	3	55	82	95	109	28	53	
Prothonotary Warbler	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
Worm-eating Warbler	2	-	12	10	5	3	6	-	36	-	-	1	-	1	-	-	-	2	-	1	8	
Swainson's Warbler	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ovenbird	20	1	62	118	18	22	46	40	381	10	18	20	106	25	18	14	11	83	72	49	48	
Northern Waterthrush	3	-	5	1	2	8	-	1	4	-	-	-	-	-	-	-	-	2	2	2	1	
Louisiana Waterthrush	11	-	8	6	-	1	3	-	6	-	-	-	3	1	6	-	17	6	11	3	5	
Kentucky Warbler	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-	4	-	19	-	4	
Connecticut Warbler	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	
Mourning Warbler	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	3	-	-	
Common Yellowthroat	32	11	94	36	15	53	10	82	266	35	12	13	78	23	10	17	69	96	186	50	29	
Hooded Warbler	1	-	-	10	4	-	-	2	50	3	-	-	-	1	3	3	7	-	63	-	7	
Wilson's Warbler	-	1	4	-	-	2	-	-	1	-	-	-	-	-	-	-	-	3	4	-	3	
Canada Warbler	5	-	3	-	-	2	-	-	6	-	-	-	-	5	-	-	1	4	2	-	-	
Yellow-breasted Chat	-	-	-	3	4	4	-	-	5	-	-	-	-	-	-	-	6	-	8	-	1	
Summer Tanager	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Scarlet Tanager	18	2	33	45	9	10	17	4	96	12	1	-	2	5	11	10	56	24	72	6	27	
Eastern Towhee	15	4	32	58	10	9	5	28	132	30	7	5	39	55	8	4	56	47	256	9	40	
American Tree Sparrow	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	4	-	-	9	-	-	
Chipping Sparrow	23	8	53	72	38	13	43	67	263	8	10	21	91	6	5	35	20	240	121	57	42	
Clay-colored Sparrow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Field Sparrow	9	5	26	13	15	-	3	12	47	7	4	-	17	-	11	1	16	13	56	4	16	
Vesper Sparrow	-	-	1	11	-	-	-	-	4	10	-	7	2	-	-	-	-	4	-	1	1	
Savannah Sparrow	6	-	-	5	-	6	-	6	2	25	1	2	4	1	4	7	3	-	5	7	-	
Grasshopper Sparrow	-	-	1	2	-	-	-	-	-	3	1	-	-	-	4	-	-	-	3	1	7	
Henslow's Sparrow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	
Fox Sparrow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Song Sparrow	24	3	105	41	16	37	5	93	117	25	11	4	102	9	19	34	45	107	179	76	35	
Lincoln's Sparrow	-	-	1	-	-	-	-	1	1	-	-	-	-	1	-	-	-	-	-	-	-	
Swamp Sparrow	-	-	12	6	1	9	2	10	5	-	4	-	24	-	1	2	-	12	4	5	-	
White-throated Sparrow	24	5	64	6	9	51	-	-	127	1	5	-	18	6	1	2	-	8	4	3	55	
White-crowned Sparrow	4	3	19	8	-	-	-	21	26	2	2	-	9	-	3	2	-	5	27	9	3	
Dark-eyed Junco	-	-	-	1	-	-	-	21	1	1	7	2	31	3	3	23	-	19	23	14	-	
Northern Cardinal	55	15	121	55	27	47	12	24	157	4	2	5	65	8	7	23	43	34	178	57	127	
Rose-breasted Grosbeak	13	2	41	14	25	7	12	18	80	55	3	11	41	3	9	20	31	30	90	21	16	
Blue Grosbeak	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	
Indigo Bunting	6	2	25	47	25	4	4	7	68	3	-	-	8	1	4	1	75	10	121	13	63	

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Bobolink	8	-	26	41	-	3	-	57	58	2	20	150	53	-	62	24	1	77	7	96	9
Red-winged Blackbird	70	19	119	242	23	251	26	331	347	120	41	59	287	10	178	113	87	479	652	266	76
Eastern Meadowlark	3	3	3	16	-	-	-	10	4	-	8	2	9	-	38	5	16	4	32	25	3
Rusty Blackbird	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-
Common Grackle	45	7	274	309	7	56	6	121	568	45	9	13	82	13	55	107	33	38	431	76	156
Brown-headed Cowbird	32	5	131	24	4	32	19	18	208	-	4	2	29	9	2	5	22	64	54	20	27
blackbird sp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Orchard Oriole	2	1	5	2	-	10	-	-	-	-	-	-	1	1	-	-	8	-	13	1	7
Baltimore Oriole	43	9	114	36	15	31	6	23	208	50	3	7	32	6	14	36	50	72	156	52	47
Purple Finch	-	-	-	-	-	-	1	3	17	1	4	5	2	-	4	-	-	19	1	6	-
House Finch	113	2	79	20	10	14	6	11	84	6	3	2	15	5	1	10	4	31	46	16	38
American Goldfinch	26	10	138	47	36	60	10	112	262	6	9	12	123	8	16	11	25	106	140	128	77
Evening Grosbeak	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
House Sparrow	12	10	30	50	1	76	9	46	230	7	2	-	22	15	9	44	26	89	294	30	23
Monk Parakeet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mandarin Duck	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total birds	2875	351	5379	3966	947	4201	983	3172	10488	953	559	719	3474	708	1439	1797	1939	4830	8346	2581	3538
Total species	113	79	142	138	91	114	93	113	150	92	89	77	113	93	136	96	99	127	149	121	141
Total observers	7	3	16	2	5	8	6	13	54	2	3	4	15	6	8	7	6	14	32	9	16
Hours foot	19.6	7	82.5	9	20	24	16	13	122	2	9	1	25	3.5	1	11.5	11	28	51.75	15.5	47.25
Hours car	1	0.5	7	6	0.5	4	4	26	13	4	3	9.5	11	0.5	15.5	17.5	3	15	53.75	24	12.75
Hours other	-	-	3	-	3	6	-	16.5	44.75	2	-	3.75	-	-	-	9	-	-	-	2	2.75
Total hours	20.6	7.5	92.5	15	23.5	34	20	55.5	179.75	8	12	14.25	36	4	16.5	38	14	43	105.5	41.5	62.75

NORTH AMERICAN MIGRATION COUNT - MAY 10, 2003

	Totals	Number of counts	% of Tot count	HIGH COUNT		Totals	Number of counts	% of Tot count	HIGH COUNT
Red-throated Loon	6	3	0.00%	4 BUCK		234	46	0.10%	35 NORH
Common Loon	160	36	0.07%	16 BUCK		70	26	0.03%	15 LANC
Pied-billed Grebe	25	17	0.01%	3 1		40	22	0.02%	4 11
Horned Grebe	4	4	0.00%	1 2		84	35	0.03%	10 BUCK
Red-necked Grebe	16	7	0.01%	5 DAUP		96	36	0.04%	9 CUMB
Great Cormorant	3	2	0.00%	2 PHIL		5	4	0.00%	2 HUNT
Double-crested Cormorant	2138	41	0.88%	614 BUCK		3	3	0.00%	1 12
American Bittern	9	8	0.00%	2 SCHU		38	25	0.02%	3 13
Least Bittern	2	2	0.00%	1 3		104	37	0.04%	8 SCHU
Great Blue Heron	867	51	0.36%	104 4		725	52	0.30%	51 INDI
Great Egret	100	13	0.04%	36 DAUP		5	3	0.00%	2 14
Snowy Egret	1	1	0.00%	1 PHIL		283	47	0.12%	21 LANC
Green Heron	268	50	0.11%	21 5		4	3	0.00%	2 LANC
Black-crowned Night-Heron	128	6	0.05%	112 LANC		9	7	0.00%	2 15
Black Vulture	260	17	0.11%	130 LANC		102	32	0.04%	12 CARB
Turkey Vulture	2357	59	0.98%	294 LANC		139	35	0.06%	15 INDI
Snow Goose	20	7	0.01%	9 LEBA		761	54	0.31%	94 GREE
Canada Goose	11676	59	4.83%	3425 LEBA		11	7	0.00%	3 16
Mute Swan	60	16	0.02%	13 BUCK		24	12	0.01%	4 CENT
Tundra Swan	5	5	0.00%	1 6		38	17	0.02%	6 CHES
Wood Duck	974	51	0.40%	92 JUNI		11	4	0.00%	6 CRAW
Gadwall	11	4	0.00%	5 DAUP		3	2	0.00%	2 FRAN
American Wigeon	5	3	0.00%	2 7		2	1	0.00%	2 LAWR
American Black Duck	16	8	0.01%	4 McKE		15	3	0.01%	11 BEDF
Mallard	3117	59	1.29%	375 BUCK		20	11	0.01%	5 CLEA
Blue-winged Teal	24	10	0.01%	6 BUTL		815	54	0.34%	71 FRAN
Northern Shoveler	2	1	0.00%	2 BUTL		67	27	0.03%	10 YORK
Northern Pintail	5	3	0.00%	2 8		116	25	0.05%	16 LANC
Green-winged Teal	5	4	0.00%	2 LUZE		375	39	0.16%	53 DAUP
Ring-necked Duck	16	8	0.01%	3 9		1	1	0.00%	1 FRAN
Greater Scaup	3	1	0.00%	3 ERIE		678	46	0.28%	61 JUNI
Lesser Scaup	50	5	0.02%	45 ERIE		7	6	0.00%	2 CRAW
Bufflehead	19	9	0.01%	6 ERIE		1	1	0.00%	1 WAYN
Common Goldeneye	2	2	0.00%	1 10		2	1	0.00%	2 ERIE
Hooded Merganser	56	18	0.02%	12 DAUP		15	6	0.01%	5 PHIL
Common Merganser	215	30	0.09%	24 BRAD		310	22	0.13%	73 LANC
Red-breasted Merganser	71	11	0.03%	38 ERIE		184	5	0.08%	120 PHIL
Ruddy Duck	67	8	0.03%	44 BUTL		19	10	0.01%	4 FRAN

	Totals	Number of counts	% of Tot count	HIGH	HIGH COUNT
Dunlin	29	9	0.01%	8	LANC
Short-billed Dowitcher	9	3	0.00%	6	SOME
Wilson's Snipe	49	13	0.02%	28	McKE
American Woodcock	122	26	0.05%	29	McKE
Red-necked Phalarope	1	1	0.00%	1	BUCK
Laughing Gull	30080	2	12.45%	30067	BUCK
Bonaparte's Gull	100	11	0.04%	45	YORK
Ring-billed Gull	3075	33	1.27%	1769	LANC
Herring Gull	888	12	0.37%	561	BUCK
Iceland Gull	1	1	0.00%	1	BUCK
Lesser Black-backed Gull	17	3	0.01%	15	NORH
Glaucous Gull	1	1	0.00%	1	BUCK
Great Black-backed Gull	71	4	0.03%	32	ERIE
gull sp.	9	4	0.00%	4	BERK
Caspian Tern	3	3	0.00%	1	17
Common Tern	190	12	0.08%	125	ERIE
Forster's Tern	204	12	0.08%	117	DAUP
Black Tern	10	6	0.00%	3	DAUP
tern sp.	9	2	0.00%	7	LANC
Rock Dove	3747	53	1.55%	415	FRAN
Eurasian Collared-Dove	2	1	0.00%	2	FRAN
Mourning Dove	5316	61	2.20%	456	INDI
Black-billed Cuckoo	96	27	0.04%	17	BERK
Yellow-billed Cuckoo	148	27	0.06%	33	BERK
cuckoo sp.	4	4	0.00%	1	18
Barn Owl	10	4	0.00%	5	FRAN
Eastern Screech-Owl	88	25	0.04%	15	CHES
Great Horned Owl	90	33	0.04%	8	CHES
Barred Owl	83	32	0.03%	15	McKE
Northern Saw-whet Owl	11	7	0.00%	3	19
Common Nighthawk	73	21	0.03%	10	VENA
Whip-poor-will	96	19	0.04%	24	HUNT
Chimney Swift	3891	56	1.61%	732	BUCK
Ruby-throated Hummingbird	691	61	0.29%	62	FRAN
Belted Kingfisher	298	48	0.12%	24	FRAN
Red-headed Woodpecker	56	19	0.02%	11	FRAN
Red-bellied Woodpecker	1441	51	0.60%	169	BUCK
Yellow-bellied Sapsucker	137	23	0.06%	41	McKE
Downy Woodpecker	1164	60	0.48%	103	BUCK
Hairy Woodpecker	320	54	0.13%	19	JUNI

	Totals	Number of counts	% of Tot count	HIGH	HIGH COUNT
Northern Flicker	1421	60	0.59%	106	BUCK
Pileated Woodpecker	359	50	0.15%	31	SCHU
Olive-sided Flycatcher	7	6	0.00%	2	WEST
Eastern Wood-Pewee	235	39	0.10%	20	FRAN
Yellow-bellied Flycatcher	4	1	0.00%	4	JUNI
Acadian Flycatcher	188	29	0.08%	42	WASH
Alder Flycatcher	9	7	0.00%	2	20
Willow Flycatcher	50	20	0.02%	7	CHES
Least Flycatcher	259	42	0.11%	31	McKE
empid sp.	28	14	0.01%	5	HUNT
Eastern Phoebe	868	56	0.36%	81	INDI
Great Crested Flycatcher	739	51	0.31%	52	LANC
Eastern Kingbird	735	55	0.30%	60	FRAN
Loggerhead Shrike	1	1	0.00%	1	FAYE
White-eyed Vireo	278	29	0.12%	34	CHES
Blue-headed Vireo	346	49	0.14%	38	McKE
Yellow-throated Vireo	213	39	0.09%	18	WAYN
Warbling Vireo	593	47	0.25%	64	BUCK
Philadelphia Vireo	10	8	0.00%	3	CENT
Red-eyed Vireo	3086	57	1.28%	185	JUNI
vireo sp.	20	4	0.01%	12	SCHU
Blue Jay	5486	61	2.27%	397	LANC
American Crow	7052	61	2.92%	599	INDI
Fish Crow	463	28	0.19%	100	LANC
crow sp.	141	8	0.06%	57	SCHU
Common Raven	227	31	0.09%	128	POTT
Horned Lark	149	25	0.06%	22	FRAN
Purple Martin	1166	30	0.48%	175	MERC
Tree Swallow	8543	60	3.54%	1213	BUCK
N. Rough-winged Swallow	1399	52	0.58%	189	BUCK
Bank Swallow	1695	38	0.70%	530	LAWR
Cliff Swallow	1510	38	0.62%	299	BUTL
Barn Swallow	7054	61	2.92%	449	FRAN
swallow sp	531	8	0.22%	250	LANC
Carolina Chickadee	729	20	0.30%	132	BUCK
Black-capped Chickadee	1822	51	0.75%	226	WAYN
chickadee sp.	198	11	0.08%	56	BERK
Tufted Titmouse	2862	59	1.18%	253	BUCK
Red-breasted Nuthatch	47	17	0.02%	10	WASH
White-breasted Nuthatch	784	58	0.32%	70	INDI

	Totals	Number of counts	% of Tot count	HIGH COUNT
Brown Creeper	40	23	0.02%	6 HUNT
Carolina Wren	801	49	0.33%	84 BUCK
House Wren	1319	58	0.55%	135 BUCK
Winter Wren	35	13	0.01%	9 WASH
Marsh Wren	16	9	0.01%	6 PHIL
Golden-crowned Kinglet	34	17	0.01%	8 SCHU
Ruby-crowned Kinglet	162	37	0.07%	14 SCHU
Blue-gray Gnatcatcher	1342	53	0.56%	147 BUCK
Eastern Bluebird	1384	57	0.57%	149 FRAN
Veery	534	45	0.22%	75 21
Gray-cheeked Thrush	29	6	0.01%	17 YORK
Bicknell's Thrush	3	2	0.00%	2 DAUP
Swainson's Thrush	340	28	0.14%	76 NUMB
Hermit Thrush	225	33	0.09%	31 YORK
Wood Thrush	4183	59	1.73%	348 INDI
thrush sp.	17	5	0.01%	6 NUMB
American Robin	14144	61	5.85%	1408 INDI
Gray Catbird	6880	60	2.85%	685 BUCK
Northern Mockingbird	754	43	0.31%	78 FRAN
Brown Thrasher	467	51	0.19%	58 FRAN
European Starling	14190	57	5.87%	2409 LEBA
American Pipit	416	15	0.17%	230 FRAN
Cedar Waxwing	1011	44	0.42%	210 BUCK
Blue-winged Warbler	788	43	0.33%	237 GREE
Golden-winged Warbler	99	27	0.04%	28 CENT
Brewster's Warbler	6	4	0.00%	3 CUMB
Lawrence's Warbler	5	5	0.00%	1 22
Tennessee Warbler	134	32	0.06%	22 ALLE
Orange-crowned Warbler	3	2	0.00%	2 BUTL
Nashville Warbler	345	40	0.14%	97 BUTL
Northern Parula	477	46	0.20%	54 BUCK
Yellow Warbler	4332	59	1.79%	470 ERIE
Chestnut-sided Warbler	935	56	0.39%	85 CENT
Magnolia Warbler	644	50	0.27%	69 McKE
Cape May Warbler	22	12	0.01%	4 DAUP
Black-throated Blue Warbler	809	50	0.33%	79 BUCK
Yellow-rumped Warbler	4934	56	2.04%	597 LANC
Black-throated Green Warbler	1980	58	0.82%	171 McKE
Blackburnian Warbler	724	51	0.30%	109 McKE
Yellow-throated Warbler	70	17	0.03%	16 WASH

	Totals	Number of counts	% of Tot count	HIGH COUNT
Pine Warbler	105	27	0.04%	16 23
Prairie Warbler	376	42	0.16%	68 BUCK
Palm Warbler	143	26	0.06%	85 ERIE
Bay-breasted Warbler	130	34	0.05%	28 LANC
Blackpoll Warbler	119	26	0.05%	28 PHIL
Cerulean Warbler	187	37	0.08%	36 WASH
Black-and-white Warbler	1222	58	0.51%	136 SCHU
American Redstart	2008	57	0.83%	109 WEST
Prothonotary Warbler	10	5	0.00%	5 LANC
Worm-eating Warbler	275	34	0.11%	36 SCHU
Swainson's Warbler	2	2	0.00%	1 24
Ovenbird	4436	58	1.84%	455 LEBA
Northern Waterthrush	101	35	0.04%	13 BUCK
Louisiana Waterthrush	301	43	0.12%	24 25
Kentucky Warbler	103	23	0.04%	20 GREE
Connecticut Warbler	1	1	0.00%	1 TIOG
Mourning Warbler	11	8	0.00%	3 WEST
Common Yellowthroat	4636	61	1.92%	449 INDI
Hooded Warbler	549	46	0.23%	74 INDI
Wilson's Warbler	69	24	0.03%	14 LANC
Canada Warbler	105	27	0.04%	12 CENT
Yellow-breasted Chat	134	27	0.06%	19 26
Summer Tanager	1	1	0.00%	1 INDI
Scarlet Tanager	1996	58	0.83%	149 INDI
Eastern Towhee	3648	59	1.51%	443 INDI
American Tree Sparrow	34	9	0.01%	12 BEDF
Chipping Sparrow	4275	61	1.77%	464 INDI
Clay-colored Sparrow	1	1	0.00%	1 ERIE
Field Sparrow	1281	55	0.53%	133 INDI
Vesper Sparrow	104	24	0.04%	13 FRAN
Savannah Sparrow	287	42	0.12%	25 SOME
Grasshopper Sparrow	196	34	0.08%	25 FRAN
Henslow's Sparrow	46	7	0.02%	16 INDI
Fox Sparrow	3	3	0.00%	1 27
Song Sparrow	4599	61	1.90%	367 INDI
Lincoln's Sparrow	27	15	0.01%	4 28
Swamp Sparrow	354	41	0.15%	69 BUTL
White-throated Sparrow	1849	53	0.77%	297 LEBA
White-crowned Sparrow	634	50	0.26%	90 ERIE
Dark-eyed Junco	294	33	0.12%	37 McKE

	Totals	Number of counts	% of Tot count	HIGH	HIGH COUNT
Northern Cardinal	4835	61	2.00%	385	BUCK
Rose-breasted Grosbeak	1753	58	0.73%	155	INDI
Blue Grosbeak	5	3	0.00%	3	YORK
Indigo Bunting	2077	58	0.86%	188	INDI
Bobolink	1577	50	0.65%	150	SUSQ
Red-winged Blackbird	12588	59	5.21%	1196	INDI
Eastern Meadowlark	815	47	0.34%	124	INDI
Rusty Blackbird	8	3	0.00%	4	CRAW
Common Grackle	11877	60	4.91%	1196	LEBA
Brown-headed Cowbird	3129	57	1.29%	254	LANC
blackbird sp.	6	1	0.00%	6	CLEA
Orchard Oriole	324	33	0.13%	61	LANC
Baltimore Oriole	3630	60	1.50%	213	INDI
Purple Finch	238	33	0.10%	39	INDI
House Finch	2415	59	1.00%	180	BERK
American Goldfinch	5683	61	2.35%	405	FRAN
Evening Grosbeak	10	1	0.00%	10	BRAD
House Sparrow	5823	56	2.41%	1186	LEBA
Monk Parakeet	1	1	0.00%		LUZE
Mandarin Duck	1	1	0.00%		JUNI
Total birds	288196				BUCK
Total species	239				LANC
Total observers	1035				79 BUCK
Hours foot	1891.55				146.75 BUCK
Hours car	924.05				78 BEDF
Hours other	640.5				89 FRAN
Total hours	3457				226.6 INDI

Codes for Multiple Counts in High Column

- 1 BEDF,BERK
- 2 BEDF,LANC,LYCO,WEST
- 3 BERK,PHIL
- 4 GREE,WASH
- 5 BUCK,FRAN
- 6 BEDF,DAUP,FORE,HUNT,McKE
- 7 BUTL,VENA
- 8 CUMB,McKE
- 9 BUTL,LANC,LEBA
- 10 DAUP,VENA
- 11 FRAN,LUZE
- 12 ALLE,BRAD,ERIE
- 13 CENT,LEBA
- 14 CARB,SUSQ
- 15 BUCK,LANC
- 16 SCHU,YORK
- 17 ERIE,INDI,LANC
- 18 ALLE,BUCK,CLEA,DAUP
- 19 McKE,UNIO
- 20 BUTL,LUZE
- 21 LANC,YORK
- 22 CHES,DAUP,GREE,JUNI,SCHU
- 23 SCHU,WAYN
- 24 ALLE,MIFF
- 25 BERK,LANC
- 26 GREE,LANC
- 27 BRAD,CLEA,JUNI
- 28 ERIE,LANC,LAWR