

# PENNSYLVANIA BIRDS



Volume 17, No. 2  
Mar - May 2003  
Issued December 2003





# PENNSYLVANIA BIRDS

Journal of the Pennsylvania Society for Ornithology

Volume 17 Number 2 March – May 2003

Nick Pulcinella - Editor-in-chief  
(610) 696-0687 [nickpul@bellatlantic.net](mailto:nickpul@bellatlantic.net)  
<http://www.pabirds.org>

## Seasonal Editors

Daniel Brauning  
Michael Fialkovich  
Deuane Hoffman  
Douglas Kibbe  
Roberta Zwier

## Department Editors

### Book Reviews

Gene Wilhelm, Ph.D.  
513 Kelly Blvd.  
Slippery Rock 16057-1145  
724-794-2434  
[GeneWilhelm@aol.com](mailto:GeneWilhelm@aol.com)

### CBC Report

Nick Bolgiano  
711 W. Foster Ave.  
State College, PA 16801  
814-234-2746  
[NBolgiano@minitab.com](mailto:NBolgiano@minitab.com)

### Hawk Watch Reports

Kyle McCarty  
Keith Bildstein  
Hawk Mountain Sanctuary  
1700 Hawk Mountain Road  
Kempton 19529  
(610) 756-6961  
[mccarty@hawkmountain.org](mailto:mccarty@hawkmountain.org)

### NAMC

Bill Etter  
1030 Old Bethlehem Road,  
Apt#2  
Perkasie, PA 18944  
(215)-258-0229  
[better@netcarrier.com](mailto:better@netcarrier.com)

### Pennsylvania Birdlists

Peter Robinson  
P. O. Box 482  
Hanover, PA 17331  
[pabirder@hotmail.com](mailto:pabirder@hotmail.com)

### Photo-Quiz

Rick Wiltraut  
Jacobsburg EE Center  
835 Jacobsburg Road  
Wind Gap, PA 18091

### Site Guides

Rudy Keller  
71 Lutz Rd  
Boyertown, PA 19512  
610-845-7310  
[rkeller@temple.edu](mailto:rkeller@temple.edu)

### Data Technician

Wendy Jo Shemansky  
1613 Aurelius Street  
Apt. 1  
Swissvale, PA 15218  
[pabirdsrus@adelphia.net](mailto:pabirdsrus@adelphia.net)

### Publication Manager

Franklin Haas  
2469 Hammertown Rd.  
Narvon, PA 17555  
[fchaas@pabirds.org](mailto:fchaas@pabirds.org)

## Contents

- 69 Editorial
- 70 Inventory Program for Birds at Pennsylvania National Parks .....  
.. Brad Ross, Rich Yahner, John Karish, Dave Klute, and Greg Keller
- 76 Observations from the 2003 North American Migration Count . Bill Etter
- 107 Harlequin Duck in *Huntingdon County* ..... Greg Grove
- 108 Kirtland's Warbler *Indiana County* ..... Margaret Higbee
- 110 Field Reports
  - Lark Bunting - *Erie County* ..... Jerry McWilliams
  - Red Phalarope - *Northampton County* ..... Michael Schall
- 111 Red-necked Grebe Invasion 2003 ..... Deuane Hoffman
- 114 Summary of the Season ..... Mike Fialkovich
- 115 Birds of Note
- 117 2003 Winter Raptor Survey Maps ..... Greg Grove
- 118 Local Notes
- 119 Photo Highlights
- 156 Spring Migration Tables
  - Photo-Quiz #1 (Inside Back Cover ) ..... Rick Wiltraut

## ILLUSTRATIONS:

**COVER:** Cerulean Warbler (*Dendroica cerulea*). One of the more sought after warblers in spring, this male was at Peter's Mt., Dauphin, 23 May 2003.  
*Photo by Tom Johnson.*

## from the Editor...

*Pennsylvania Birds* is always in need of articles. We welcome articles that involve all aspects of birds and birding within our state. Status and occurrence pieces such as the Rufous/Allen's Hummingbird article in PB17:2-5 are most welcome, but notes on bird behavior, identification, and general birding are also wanted. I hope you will consider contributing your writing. Photographs are welcomed. Photos do not have to be award-winners. Keep in mind that the larger the image we receive, the easier it is to reproduce, however, we will attempt to publish photos of rarities even if the images are small and not quite the best.

### New Features

Obviously, the color cover is a new feature. We hope to introduce color into the publication as we can. The second new feature is a photo-quiz. Rick Wiltraut has volunteered to be our photo-quiz editor. Rick is well-known to *Pennsylvania Birds* readers as a frequent contributor and former Monroe and Northampton county compiler. If you have birded anywhere in the state, you have probably crossed paths with Rick. We welcome him to this long-awaited feature. With respect to the photo-quiz, the answer to the quiz will appear in the issue following the quiz photo.

### Is there an AD Person out there?

If you are a go-getter and a "schmooser" we are looking for you. *Pennsylvania Birds* is in search of a volunteer to solicit advertising for the publication. Advertising brings in money and additional money may bring more color to these pages. If you think you are the person for the job, please contact the chief editor. Any person or corporation willing to sponsor a color page(s), please contact the editor.

### County Compiler News.

The Summer 2003 issue will be the last for long-time Cambria County compilers Gloria Lamer and Georgette Syster. and Lycoming County compiler Wes Egli. These compilers are owed a well-deserved thanks for their many many years of service to *Pennsylvania Birds*. The new compilers for Cambria County will be John Salvetti and Dave Gobert. Contact information for John and Dave is as follows: John Salvetti 519 E. Crawford Street, Ebensburg, PA 15931, jsalveti70@aol.com; Dave Gobert 287 Beech Street, Patton, PA 16668, djgobert@webtv.com. Steve Pinkerton will be the new compiler for Lycoming County. His contact information is Steve Pinkerton, 1852 Log-Run Road, Williamsport, PA 17701, stevepinkerton@suscom.net

We also welcome Doug Gross, a familiar name to many *Pennsylvania Birds* readers and PSO members, as the new compiler for Columbia County. His contact information is Doug Gross, 144 Winters Road, Orangeville, PA 17859, (570) 458-4568, douggross@sunlink.net

Robert W. Blye, Jr. Has volunteered to compile for Susquehanna County. Rob's contact information is Robert W. Blye, Jr., Hidden River Farm, 300 Sanatoga Road, Pottstown, PA 19465, 610 327-2502, rblye@audubon.org. Jeff Holbrook will be the new compiler for Tioga County. Contact information is Jeff Holbrook 2631 King Circle, East Corning, NY, 14830, (607) 936-5059, mycteria@stny.rr.com. We welcome these new county compilers. Their respective reports will begin with the **FALL MIGRATION** season.

### Changes in the AOU Checklist

The July 2003 issue of *The Auk* contained the 44<sup>th</sup> Supplement to *The American Ornithologists' Union Checklist of North American Birds*. There are several changes which affect the

official Pennsylvania State List:

- Rock Dove - Change the English name to **Rock Pigeon**.
- Eastern Screech-Owl - Change the genus from *Otus* to ***Megasops***.
- Snowy Owl - Change the Latin name from *Nyctea scandiaca* to ***Bubo scandiaca***.
- Black-capped Chickadee - Change the Latin specific name from *Poecile atricapilla* to ***Poecile atricapillus***.
- Ovenbird - Change the Latin specific name from *Seiurus aurocapillus* to ***Seiurus aurocapilla***.

If you think it will be difficult getting used to saying "Rock Pigeon", it may be more difficult getting used to the change in the order near the beginning of the *Check-List*. The Order *Anseriformes* (ducks, geese and swans) and the Order *Galliformes* (chachalacas, guans, curassow, grouse, ptarmigan, prairie-chickens, and turkeys) will now be placed **before** the Order *Gaviformes* (loons).

Another change that doesn't currently affect our state list (not on the official list), but may in the future, is the splitting of the Three-toed Woodpecker. Based on differences in mitochondrial DNA, the New World and Old World populations are now considered separate species with the Old World retaining the name Three-toed Woodpecker and the New World species named **American Three-toed Woodpecker**.

For those interested in reading the specific reasons for these and other changes to the *Check-List*, we refer you to *The Auk* 120 (3):923-931, 2003

### Corrigendum

Please note the dates listed on the Rufous Hummingbird photos in PB 17:35 should read 13 December 2002.

A correction to the 12<sup>th</sup> annual PORC Report, PB 17:25. The addition of the one new records brings the state total to 394 species, not 395.

Nick Pulcinella  
Editor-in-Chief

**PENNSYLVANIA BIRDS** (ISSN 0898-8501) is published four times a year by Pennsylvania Birds. Editorial and business offices are located at 2469 Hammertown Road, Narvon, PA 17555-9726. Subscriptions, all in US\$: One year U.S.A. \$28.50, Canada \$40, Foreign \$45. Library rate \$30. Single copies: \$5.50. Checks and money orders in U.S.\$ only should be made payable to **PSO**. Copyright © 2003 by Pennsylvania Society for Ornithology. **SECOND CLASS POSTAGE PAID AT NARVON, PA 17555**  
**POSTMASTER:** Send address changes to **PSO**, 2469 Hammertown Road, Narvon, PA 17555-9726.

# Inventory Program for Birds at National Parks in Pennsylvania

Brad Ross, Rich Yahner, John Karish, Dave Klute, and Greg Keller

---

## INTRODUCTION

National parks are becoming more insular because of increased habitat fragmentation in the surrounding landscape. These parks are becoming increasingly valuable for the long-term maintenance of bird diversity. The National Park Service (NPS) has determined that inventorying of birds is critical at national parks in Pennsylvania, including Valley Forge National Historical Park (VAFO) Montgomery and Chester Counties, Hopewell Furnace National Historic Site (HOFU) Berks and Chester Counties, Gettysburg National Military Park (GETT) Adams County, Eisenhower National Historic Site (EISE) Adams County, Allegheny Portage Railroad National Historic Site (ALPO) Cambria and Blari Counties, Johnstown Flood National Memorial (JOFL) Cambria County, Fort Necessity National Battlefield (FONE) Fayette County, and Friendship Hill National Historic Site (FRHI) Fayette County. Thus, the major objectives of our projects are to (1) obtain a comprehensive inventory data set on birds at each of the eight parks and (2) develop recommendations for establishing long-term sampling plans to monitor birds at each park.

## METHODS

To meet objective 1, we surveyed bird populations during spring-migratory, breeding, fall-migratory, and winter seasons, from May 1999 to May 2001 at VAFO, HOFU, GETT, EISE, ALPO, and JOFL, and from August 2001 to July 2002 at FONE and FRHI. An additional year of bird surveys will be conducted at FONE and FRHI from August 2002 to July 2003. Point-count, vehicular-

road, diurnal raptor and vulture, strip-transect, owl, Loggerhead Shrike (*Lanius ludovicianus*), and riparian-bird survey protocols were used in an attempt to identify all of the different avian species present in the parks throughout the sampling periods (Yahner et al. 2001, 2002).

## RESULTS

One hundred and ninety three different bird species were recorded at the parks between 1999-2002 (Tables 1 and 2). Most notably, the parks provided habitat for 39 species of special concern (Tables 1 and 2). Combining information from point-count, vehicular-road, diurnal raptor and vulture, owl, and riparian bird surveys investigators recorded the highest species richness of all eight parks at VAFO ( $n = 163$ ). We documented 22 species of special concern at VAFO including one state threatened (Osprey), two state imperiled (Long-eared Owl and Marsh Wren), and three state vulnerable species (Pied-billed Grebe, Northern Harrier, and Northern Saw-whet Owl) (scientific names are given in Table 2). We encountered 120 species at HOFU using point-count, vehicular-road, diurnal raptor and vulture, and owl surveys. We found 17 species of special concern at HOFU including the federally threatened and state endangered Bald Eagle, the Long-eared Owl (state imperiled), and the Northern Saw-whet Owl (state vulnerable). Using point-count, vehicular-road, diurnal raptor and vulture, and owl surveys, investigators found 151 bird species at GETT. Twenty-three species of special concern were found at GETT, including two state endangered species (Yellow-crowned Night-heron and Short-

eared Owl), one state threatened species (Osprey), one state critically imperiled species (Upland Sandpiper), and four state vulnerable species (Northern Harrier, Common Snipe, Barn Owl, and Northern Saw-whet Owl). Combining information from point-count, vehicular-road, diurnal raptor and vulture, owl, and Loggerhead Shrike surveys, we detected 111 species within EISE boundaries. Fifteen species of special concern were detected at EISE. Most notable, EISE was the only park in which we documented the state-endangered Loggerhead Shrike. We also found three state-listed species of special concern: Short-eared Owl (state endangered) and Northern Harrier and Wilson's Snipe (both state vulnerable). We detected 113 bird species at ALPO using point-count and owl surveys. Thirteen species of special concern occurred at ALPO, including one state vulnerable species, the Northern Saw-whet Owl. We found 94 species at JOFL using point-count, vehicular-road, diurnal raptor and vulture, and owl surveys. We detected 10 species of special concern, with seven occurring at JOFL during the breeding season including Blue-winged Warbler, Henslow's Sparrow, and Wood Thrush. Using point-count, vehicular-road, diurnal raptor and vulture, strip-transect, and owl surveys, we detected 115 bird species at FONE. Seventeen species of special concern occurred at FONE, including two state vulnerable species, the Northern Goshawk and the Northern Saw-whet Owl. We detected 126 bird species at FRHI using point-count, vehicular-road, diurnal raptor and vulture, strip-transect, owl, and riparian bird surveys. Eighteen

species of special concern occurred at FRHI, including three state vulnerable species, Great Blue Heron, Northern Bobwhite, and Summer Tanager.

## RECOMMENDATIONS AND CONCLUSIONS

Based on field-testing of survey protocols and conducting 2 years of inventories, we developed recommendations for monitoring bird populations at VAFO, HOFU, GETT, EISE, ALPO, and JOFL and used this information to design bird inventories at FONE and FRHI. We recommend conducting point-count, vehicular-road, and diurnal raptor and vulture surveys twice a season during all seasons for 2 consecutive years out of every 5-year period at each park. Owl surveys should be conducted for two consecutive winters out of every 5 years at all of the parks. To supplement this work at VAFO, we recommend surveying riparian birds eight to 10 times between October and April for 2 consecutive years out of every 5-year period. At EISE, we recommend Surveying Loggerhead Shrikes every year between May and early July.

By implementing these recommendations, resource management specialists can create an extensive long-term database on

bird populations at each national park. Data collected during this project combined with information from future monitoring efforts will be valuable, especially for identifying long-term trends in bird populations in the eastern United States. Information available in long-term databases will enable resource management specialists to make informed decisions on how best to manage the natural resources within the national parks.

## LITERATURE CITED

- Muehter, V. R. 1998. WatchList Website: <http://www.audubon.org/bird/watch>. Version 97.12. National Audubon Society, New York, NY.
- United States Fish and Wildlife Service. 1995. Migratory nongame birds of management concern in the United States: the 1995 list. Office of Migratory Bird Management, Washington, D.C.
- Yahner, R. H., B. D. Ross, G. S. Keller, and D. S. Klute. 2001. Comprehensive inventory program for birds at six Pennsylvania national parks. National Park Service, Technical Report NPS/PHSO/NRTR-01/085. 232pp.
- Yahner, R. H., B. D. Ross, J. E. Kubel. 2002. Comprehensive inventory program for birds and mammals at Fort Necessity National Battlefield and Friendship Hill National Historic Site. National Park Service, Annual Progress Report. 55pp.

*Brad Ross*  
School of Forest Resources  
The Pennsylvania State University  
204 Ferguson Building,  
Univeristy Park, PA 16802

*Rich Yahner*  
School of Forest Resources and Intercollege  
Graduate Degreee  
Program in Ecology  
The Pennsylvania State University  
107 Ferguson Building  
Univeristy Park, PA 16802

*John Karish*  
National Park Service  
Philadelphia Support Office  
200 Chestnut Street  
Philadelphia, PA 19106

*Dave Klute*  
Colorado Division of Wildlife  
6060 Broadway  
Denver, CO 80216

*Greg Keller*  
Station 33, Department of Biological  
Sciences  
Eastern New Mexico University  
Portales, NM 88130

**Table 1.** Number of bird species and number of species of special concern<sup>1</sup> detected during May 1999 - May 2001 at Allegheny Portage Railroad National Historic Site (ALPO), Eisenhower National Historic Site (EISE), Gettysburg National Military Park (GETT), Hopewell Furnace National Historic Site (HOFU), Johnstown Flood National Memorial (JOFL), and Valley Forge National Historical Park (VAFO) and during August 2001 - July 2002 at Fort Necessity National Battlefield (FONE) and Friendship Hill National Historic Site (FRHI).

| National Park      | Bird Species | Species of Special Concern |
|--------------------|--------------|----------------------------|
| ALPO               | 113          | 13                         |
| EISE               | 111          | 15                         |
| FONE               | 115          | 17                         |
| FRHI               | 126          | 18                         |
| GETT               | 151          | 23                         |
| HOFU               | 120          | 17                         |
| JOFL               | 94           | 10                         |
| VAFO               | 163          | 22                         |
| All Parks Combined | 193          | 39                         |

<sup>1</sup> Species of special concern include the following: federally endangered, threatened, or management concern (<http://endangered.fws.gov/wildlife>, United States Fish and Wildlife Service 1995); state endangered, threatened, critically imperiled, imperiled, or vulnerable (<http://www.dcnr.state.pa.us/forestry/pndi>); Audubon Watchlist (AW) (Muehter 1998).

**Table 2.** Bird species identified (indicated by an "X") during May 1999-May 2001 at Allegheny Portage Railroad National Historic Site (ALPO), Eisenhower National Historic Site (EISE), Gettysburg National Military Park (GETT), Hopewell Furnace National Historic Site (HOFU), Johnstown Flood National Memorial (JOFL), and Valley Forge National Historical Park (VAFO) and during August 2001 - July 2002 at Fort Necessity National Battlefield (FONE) and Friendship Hill National Historic Site (FRHI).

| SPECIES  | ALPO | EISE | FONE | FRHI | GETT | HOFU | JOFL | VAFO |
|--|------|------|------|------|------|------|------|------|
| Pied-billed Grebe<br>( <i>Podilymbus podiceps</i> )          |      |      |      |      |      |      |      | X    |
| Double-crested Cormorant<br>( <i>Phalacrocorax auritus</i> ) |      |      |      |      | X    |      |      | X    |
| Yellow-crowned Night-heron<br>( <i>Nyctanassa violacea</i> ) |      |      |      |      | X    |      |      |      |
| Green Heron<br>( <i>Butorides virescens</i> )                |      | X    |      |      | X    |      |      | X    |
| Great Blue Heron<br>( <i>Ardea herodias</i> )                | X    | X    |      | X    | X    |      |      | X    |
| Tundra Swan<br>( <i>Cygnus columbianus</i> )                 | X    |      |      |      | X    |      |      | X    |
| Canada Goose<br>( <i>Branta canadensis</i> )                 | X    | X    | X    | X    | X    | X    | X    | X    |
| Wood Duck<br>( <i>Aix sponsa</i> )                           |      |      |      | X    | X    |      | X    | X    |
| Mallard<br>( <i>Anas platyrhynchos</i> )                     | X    | X    | X    | X    | X    | X    | X    | X    |
| American Black Duck<br>( <i>Anas rubripes</i> )              |      |      |      |      |      |      |      | X    |
| Canvasback<br>( <i>Aythya valisineria</i> )                  |      |      |      | X    |      |      |      |      |
| Ring-necked Duck<br>( <i>Aythya collaris</i> )               |      |      |      |      |      |      |      | X    |
| Lesser Scaup<br>( <i>Aythya affinis</i> )                    |      |      |      |      |      |      |      | X    |
| Common Goldeneye<br>( <i>Bucephala clangula</i> )            |      |      |      |      |      |      |      | X    |
| Bufflehead<br>( <i>Bucephala albeola</i> )                   |      |      |      |      |      |      |      | X    |
| Common Merganser<br>( <i>Mergus merganser</i> )              |      |      |      |      |      |      |      | X    |
| Hooded Merganser<br>( <i>Lophodytes cucullatus</i> )         |      |      |      |      |      |      |      | X    |
| Turkey Vulture<br>( <i>Cathartes aura</i> )                  | X    | X    | X    | X    | X    | X    | X    | X    |
| Black Vulture<br>( <i>Coragyps atratus</i> )                 |      | X    | X    |      | X    | X    |      | X    |
| Osprey<br>( <i>Pandion haliaetus</i> )                       |      |      |      |      | X    |      |      | X    |
| Northern Harrier<br>( <i>Circus cyaneus</i> )                |      | X    |      |      | X    |      |      | X    |
| Golden Eagle<br>( <i>Aquila chrysaetos</i> )                 |      |      |      |      |      |      |      | X    |
| Bald Eagle<br>( <i>Haliaeetus leucocephalus</i> )            |      |      |      |      |      | X    |      |      |

| SPECIES  | ALPO | EISE | FONE | FRHI | GETT | HOFU | JOFL | VAFO |
|--|------|------|------|------|------|------|------|------|
| Sharp-shinned Hawk<br>( <i>Accipiter striatus</i> )    |      | X    | X    | X    | X    | X    |      | X    |
| Cooper's Hawk<br>( <i>Accipiter cooperii</i> )         | X    | X    |      | X    | X    | X    |      | X    |
| Northern Goshawk<br>( <i>Accipiter gentilis</i> )      |      |      | X    |      |      |      |      |      |
| Broad-winged Hawk<br>( <i>Buteo platypterus</i> )      | X    |      | X    | X    | X    | X    | X    | X    |
| Red-shouldered Hawk<br>( <i>Buteo lineatus</i> )       | X    | X    | X    | X    | X    | X    | X    | X    |
| Red-tailed Hawk<br>( <i>Buteo jamaicensis</i> )        |      |      |      |      |      |      |      |      |
| American Kestrel<br>( <i>Falco sparverius</i> )        |      | X    |      | X    | X    | X    | X    | X    |
| Ring-necked Pheasant<br>( <i>Phasianus colchicus</i> ) |      |      |      |      | X    | X    |      | X    |
| Wild Turkey<br>( <i>Meleagris gallopavo</i> )          | X    |      | X    | X    | X    |      | X    |      |
| Ruffed Grouse<br>( <i>Bonasa umbellus</i> )            | X    |      | X    |      |      | X    | X    |      |
| Northern Bobwhite<br>( <i>Colinus virginianus</i> )    |      |      |      | X    |      |      |      |      |
| American Coot<br>( <i>Fulica americana</i> )           |      |      |      |      |      |      |      | X    |
| Killdeer<br>( <i>Charadrius vociferus</i> )            |      | X    |      | X    | X    | X    | X    | X    |
| Lesser Yellowlegs<br>( <i>Tringa flavipes</i> )        |      |      |      |      |      |      |      | X    |
| Solitary Sandpiper<br>( <i>Tringa solitaria</i> )      |      |      |      |      |      |      |      | X    |
| Spotted Sandpiper<br>( <i>Actitis macularia</i> )      |      |      |      |      |      |      |      | X    |
| Least Sandpiper<br>( <i>Calidris minutilla</i> )       |      |      |      |      |      |      |      | X    |
| Pectoral Sandpiper<br>( <i>Calidris melanotos</i> )    |      |      |      |      |      |      |      | X    |
| Upland Sandpiper<br>( <i>Bartramia longicauda</i> )    |      |      |      |      | X    |      |      |      |
| Wilson's Snipe<br>( <i>Gallinago gallinago</i> )       |      | X    |      |      | X    |      |      | X    |
| American Woodcock<br>( <i>Scolopax minor</i> )         | X    | X    | X    |      | X    | X    |      | X    |
| Laughing Gull<br>( <i>Larus atricilla</i> )            |      |      |      |      | X    |      |      |      |
| Ring-billed Gull<br>( <i>Larus delawarensis</i> )      |      | X    |      |      | X    | X    |      | X    |

| SPECIES  | ALPO | EISE | FONE | FRHI | GETT | HOFU | JOFL | VAFO |
|--|------|------|------|------|------|------|------|------|
| Herring Gull<br>( <i>Larus argentatus</i> )                    |      |      |      |      |      |      |      | X    |
| Rock Dove<br>( <i>Columba livia</i> )                          | X    | X    |      |      | X    | X    | X    | X    |
| Mourning Dove<br>( <i>Zenaidura macroura</i> )                 | X    | X    | X    | X    | X    | X    | X    | X    |
| Yellow-billed Cuckoo<br>( <i>Coccyzus americanus</i> )         | X    | X    | X    | X    | X    | X    | X    | X    |
| Black-billed Cuckoo<br>( <i>Coccyzus erythrophthalmus</i> )    | X    |      | X    | X    | X    | X    |      | X    |
| Barn Owl<br>( <i>Tyto alba</i> )                               |      |      |      |      | X    |      |      |      |
| Short-eared Owl<br>( <i>Asio flammeus</i> )                    |      | X    |      |      | X    |      |      |      |
| Long-eared Owl<br>( <i>Asio otus</i> )                         |      |      |      |      |      | X    |      | X    |
| Great Horned Owl<br>( <i>Bubo virginianus</i> )                | X    |      | X    | X    | X    | X    | X    | X    |
| Barred Owl<br>( <i>Strix varia</i> )                           |      | X    | X    | X    | X    | X    | X    | X    |
| Eastern Screech-owl<br>( <i>Otus asio</i> )                    | X    |      | X    | X    | X    | X    |      | X    |
| Northern Saw-whet Owl<br>( <i>Aegolius acadicus</i> )          | X    |      | X    |      | X    | X    |      | X    |
| Common Nighthawk<br>( <i>Chordeiles minor</i> )                |      |      |      |      | X    |      |      | X    |
| Chimney Swift<br>( <i>Chaetura pelagica</i> )                  | X    | X    | X    | X    | X    | X    |      | X    |
| Ruby-throated Hummingbird<br>( <i>Archilochus colubris</i> )   | X    | X    | X    | X    | X    | X    | X    | X    |
| Belted Kingfisher<br>( <i>Ceryle alcyon</i> )                  | X    | X    |      | X    | X    | X    | X    | X    |
| Red-headed Woodpecker<br>( <i>Melanerpes erythrocephalus</i> ) |      | X    |      |      | X    |      |      | X    |
| Red-bellied Woodpecker<br>( <i>Melanerpes carolinus</i> )      | X    | X    | X    | X    | X    | X    | X    | X    |
| Northern Flicker<br>( <i>Colaptes auratus</i> )                | X    | X    | X    | X    | X    | X    | X    | X    |
| Yellow-bellied Sapsucker<br>( <i>Sphyrapicus varius</i> )      | X    | X    | X    | X    | X    | X    |      | X    |
| Downy Woodpecker<br>( <i>Picoides pubescens</i> )              | X    | X    | X    | X    | X    | X    | X    | X    |
| Hairy Woodpecker<br>( <i>Picoides villosus</i> )               | X    | X    | X    | X    | X    | X    | X    | X    |
| Pileated Woodpecker<br>( <i>Dryocopus pileatus</i> )           | X    | X    | X    | X    | X    | X    | X    | X    |
| Eastern Wood-pewee<br>( <i>Contopus virens</i> )               | X    | X    | X    | X    | X    | X    | X    | X    |
| Acadian Flycatcher<br>( <i>Empidonax virescens</i> )           | X    | X    | X    | X    | X    | X    | X    | X    |

| SPECIES  | ALPO | EISE | FONE | FRHI | GETT | HOFU | JOFL | VAFO |
|--|------|------|------|------|------|------|------|------|
| Yellow-bellied Flycatcher<br>( <i>Empidonax flaviventris</i> )         |      |      |      |      |      |      |      | X    |
| Alder Flycatcher<br>( <i>Empidonax alborum</i> )                       |      |      |      |      |      |      | X    | X    |
| Willow Flycatcher<br>( <i>Empidonax traillii</i> )                     | X    | X    | X    | X    | X    | X    | X    | X    |
| Least Flycatcher<br>( <i>Empidonax minimus</i> )                       | X    |      | X    | X    | X    | X    |      | X    |
| Eastern Phoebe<br>( <i>Sayornis phoebe</i> )                           | X    | X    | X    | X    | X    | X    | X    | X    |
| Great Crested Flycatcher<br>( <i>Myiarchus crinitus</i> )              | X    | X    | X    | X    | X    | X    | X    | X    |
| Eastern Kingbird<br>( <i>Tyrannus tyrannus</i> )                       | X    | X    |      | X    | X    | X    | X    | X    |
| Loggerhead Shrike<br>( <i>Lanius ludovicianus</i> )                    |      | X    |      |      |      |      |      |      |
| Northern Shrike<br>( <i>Lanius excubitor</i> )                         |      |      |      |      |      |      | X    |      |
| White-eyed Vireo<br>( <i>Vireo griseus</i> )                           | X    | X    | X    | X    | X    | X    | X    | X    |
| Yellow-throated Vireo<br>( <i>Vireo flavifrons</i> )                   | X    | X    | X    | X    | X    | X    | X    | X    |
| Blue-headed Vireo<br>( <i>Vireo solitarius</i> )                       | X    | X    | X    | X    | X    | X    | X    | X    |
| Red-eyed Vireo<br>( <i>Vireo olivaceus</i> )                           | X    | X    | X    | X    | X    | X    | X    | X    |
| Philadelphia Vireo<br>( <i>Vireo philadelphicus</i> )                  | X    |      |      | X    |      | X    |      | X    |
| Warbling Vireo<br>( <i>Vireo gilvus</i> )                              |      | X    | X    | X    | X    |      |      | X    |
| Blue Jay<br>( <i>Cyanocitta cristata</i> )                             | X    | X    | X    | X    | X    | X    | X    | X    |
| American Crow<br>( <i>Corvus brachyrhynchos</i> )                      | X    | X    | X    | X    | X    | X    | X    | X    |
| Fish Crow<br>( <i>Corvus ossifragus</i> )                              | X    | X    |      | X    | X    | X    |      | X    |
| Common Raven<br>( <i>Corvus corax</i> )                                | X    |      | X    | X    | X    | X    |      | X    |
| Horned Lark<br>( <i>Eremophila alpestris</i> )                         |      |      |      |      | X    |      |      | X    |
| Tree Swallow<br>( <i>Iachycineta bicolor</i> )                         | X    | X    |      | X    | X    | X    | X    | X    |
| Purple Martin<br>( <i>Progne subis</i> )                               |      |      |      |      | X    |      |      |      |
| Cliff Swallow<br>( <i>Petrochelidon pyrrhonota</i> )                   |      |      |      | X    |      | X    |      |      |
| Northern Rough-winged Swallow<br>( <i>Stelgidopteryx serripennis</i> ) |      | X    |      | X    | X    | X    | X    | X    |
| Barn Swallow<br>( <i>Hirundo rustica</i> )                             |      | X    |      | X    | X    | X    | X    | X    |

| SPECIES  | ALPO | EISE | FONE | FRHI | GETT | HOFU | JOFL | VAFO |
|--|------|------|------|------|------|------|------|------|
| Tufted Titmouse<br>( <i>Baeolophus bicolor</i> )         | X    | X    | X    | X    | X    | X    | X    | X    |
| Black-capped Chickadee<br>( <i>Poecile atricapilla</i> ) | X    |      | X    | X    | X    | X    | X    |      |
| Carolina Chickadee<br>( <i>Poecile carolinensis</i> )    | X    | X    |      | X    | X    | X    |      | X    |
| Brown Creeper<br>( <i>Certhia americana</i> )            | X    | X    | X    | X    | X    | X    | X    | X    |
| White-breasted Nuthatch<br>( <i>Sitta carolinensis</i> ) | X    | X    | X    | X    | X    | X    | X    | X    |
| Red-breasted Nuthatch<br>( <i>Sitta canadensis</i> )     | X    | X    | X    | X    | X    | X    | X    | X    |
| House Wren<br>( <i>Troglodytes aedon</i> )               | X    | X    | X    | X    | X    | X    | X    | X    |
| Winter Wren<br>( <i>Troglodytes troglodytes</i> )        | X    |      |      |      | X    |      | X    | X    |
| Carolina Wren<br>( <i>Thyothorus ludovicianus</i> )      | X    | X    | X    | X    | X    | X    | X    | X    |
| Marsh Wren<br>( <i>Cistothorus palustris</i> )           |      |      |      |      |      |      |      | X    |
| Golden-crowned Kinglet<br>( <i>Regulus satrapa</i> )     | X    | X    | X    | X    | X    | X    | X    | X    |
| Ruby-crowned Kinglet<br>( <i>Regulus calendula</i> )     | X    | X    | X    | X    | X    | X    |      | X    |
| Blue-gray Gnatcatcher<br>( <i>Polioptila caerulea</i> )  | X    | X    | X    | X    | X    | X    | X    | X    |
| Eastern Bluebird<br>( <i>Sialia sialis</i> )             | X    | X    | X    | X    | X    | X    | X    | X    |
| Wood Thrush<br>( <i>Hylocichla mustelina</i> )           | X    | X    | X    | X    | X    | X    | X    | X    |
| Veery<br>( <i>Catharus fuscescens</i> )                  | X    | X    |      | X    | X    | X    |      | X    |
| Gray-cheeked Thrush<br>( <i>Catharus minimus</i> )       |      |      |      |      |      |      |      | X    |
| Swainson's Thrush<br>( <i>Catharus ustulatus</i> )       | X    |      | X    | X    | X    |      |      | X    |
| Hermit Thrush<br>( <i>Catharus guttatus</i> )            | X    | X    | X    |      | X    | X    |      | X    |
| American Robin<br>( <i>Turdus migratorius</i> )          | X    | X    | X    | X    | X    | X    | X    | X    |
| Gray Catbird<br>( <i>Dumetella carolinensis</i> )        | X    | X    | X    | X    | X    | X    | X    | X    |
| Northern Mockingbird<br>( <i>Mimus polyglottos</i> )     |      | X    | X    | X    | X    | X    |      | X    |
| Brown Thrasher<br>( <i>Toxostoma rufum</i> )             | X    | X    | X    | X    | X    | X    | X    | X    |
| European Starling<br>( <i>Sturnus vulgaris</i> )         | X    | X    | X    | X    | X    | X    | X    | X    |
| Cedar Waxwing<br>( <i>Bombycilla cedrorum</i> )          | X    | X    | X    | X    | X    | X    | X    | X    |

| SPECIES  | ALPO | EISE | FONE | FRHI | GETT | HOFU | JOFL | VAFO |
|--|------|------|------|------|------|------|------|------|
| Blue-winged Warbler<br>( <i>Vermivora pinus</i> )                | X    |      | X    | X    | X    | X    | X    | X    |
| Golden-winged Warbler<br>( <i>Vermivora chrysoptera</i> )        |      |      | X    |      |      | X    |      |      |
| Brewster's Warbler<br>(hybrid)                                   |      |      |      |      |      |      |      |      |
| Tennessee Warbler<br>( <i>Vermivora peregrina</i> )              |      |      | X    | X    | X    | X    |      | X    |
| Orange-crowned Warbler<br>( <i>Vermivora celata</i> )            |      |      |      |      | X    |      |      |      |
| Nashville Warbler<br>( <i>Vermivora ruficapilla</i> )            | X    |      | X    | X    | X    | X    |      | X    |
| Northern Parula<br>( <i>Parula americana</i> )                   | X    |      | X    | X    | X    | X    |      | X    |
| Chestnut-sided Warbler<br>( <i>Dendroica pensylvanica</i> )      | X    | X    | X    | X    | X    | X    | X    | X    |
| Cape May Warbler<br>( <i>Dendroica tigrina</i> )                 | X    |      | X    | X    | X    |      |      | X    |
| Magnolia Warbler<br>( <i>Dendroica magnolia</i> )                | X    | X    | X    | X    | X    | X    |      | X    |
| Yellow-rumped Warbler<br>( <i>Dendroic coronata</i> )            | X    | X    | X    | X    | X    | X    | X    | X    |
| Black-and-white Warbler<br>( <i>Mniotilta varia</i> )            | X    |      | X    | X    | X    | X    | X    | X    |
| Black-throated Blue Warbler<br>( <i>Dendroica caerulescens</i> ) | X    |      | X    |      | X    | X    | X    | X    |
| Cerulean Warbler<br>( <i>Dendroica cerulea</i> )                 | X    |      | X    | X    | X    | X    |      | X    |
| Blackburnian Warbler<br>( <i>Dendroica fusca</i> )               | X    |      | X    |      | X    | X    | X    | X    |
| Black-throated Green Warbler<br>( <i>Dendroica virens</i> )      | X    | X    | X    | X    | X    | X    | X    | X    |
| Yellow-throated Warbler<br>( <i>Dendroica dominica</i> )         |      |      | X    | X    |      | X    |      |      |
| Prairie Warbler<br>( <i>Dendroica discolor</i> )                 |      |      | X    | X    | X    |      |      | X    |
| Bay-breasted Warbler<br>( <i>Dendroica castanea</i> )            | X    |      | X    | X    | X    | X    |      | X    |
| Blackpoll Warbler<br>( <i>Dendroica striata</i> )                | X    |      | X    | X    | X    | X    | X    | X    |
| Pine Warbler<br>( <i>Dendroica pinus</i> )                       | X    | X    | X    |      | X    | X    |      | X    |
| Palm Warbler<br>( <i>Dendroica palmarum</i> )                    |      | X    |      |      | X    | X    |      | X    |
| Yellow Warbler<br>( <i>Dendroica petechia</i> )                  | X    | X    | X    | X    | X    | X    | X    | X    |
| Mourning Warbler<br>( <i>Oporornis phalaenoptila</i> )           |      |      |      | X    |      |      |      |      |
| Kentucky Warbler<br>( <i>Oporornis formosus</i> )                |      | X    | X    | X    | X    |      |      | X    |

| SPECIES   | ALPO | EISE | FONE | FRHI | GETT | HOFU | JOFL | VAFO |
|---|------|------|------|------|------|------|------|------|
| Canada Warbler<br>( <i>Wilsonia canadensis</i> )            | X    |      | X    | X    | X    | X    |      | X    |
| Wilson's Warbler<br>( <i>Wilsonia pusilla</i> )             |      |      |      | X    | X    |      |      | X    |
| Hooded Warbler<br>( <i>Wilsonia citrina</i> )               | X    |      | X    | X    | X    | X    |      | X    |
| Worm-eating Warbler<br>( <i>Helminthos vermivorus</i> )     | X    | X    | X    | X    | X    | X    |      | X    |
| Ovenbird<br>( <i>Seiurus aurocapillus</i> )                 | X    | X    | X    | X    | X    | X    | X    | X    |
| Louisiana Waterthrush<br>( <i>Seiurus motacilla</i> )       | X    | X    | X    | X    | X    | X    |      | X    |
| Northern Waterthrush<br>( <i>Seiurus noveboracensis</i> )   | X    | X    |      | X    |      |      |      | X    |
| Common Yellowthroat<br>( <i>Geothlypis trichas</i> )        | X    | X    | X    | X    | X    | X    | X    | X    |
| Yellow-breasted Chat<br>( <i>Icteria virens</i> )           | X    |      | X    | X    |      |      |      | X    |
| American Redstart<br>( <i>Setophaga ruticilla</i> )         | X    | X    | X    | X    | X    | X    | X    | X    |
| Summer Tanager<br>( <i>Piranga rubra</i> )                  |      |      |      | X    |      |      |      | X    |
| Scarlet Tanager<br>( <i>Piranga olivacea</i> )              | X    | X    | X    | X    | X    | X    | X    | X    |
| Eastern Towhee<br>( <i>Pipilo erythrophthalmus</i> )        | X    | X    | X    | X    | X    | X    | X    | X    |
| American Tree Sparrow<br>( <i>Spizella arborea</i> )        | X    | X    | X    | X    | X    |      | X    | X    |
| Field Sparrow<br>( <i>Spizella pusilla</i> )                | X    | X    | X    | X    | X    | X    | X    | X    |
| Chipping Sparrow<br>( <i>Spizella passerina</i> )           | X    | X    | X    | X    | X    | X    | X    | X    |
| Grasshopper Sparrow<br>( <i>Ammodramus savannarum</i> )     |      | X    | X    | X    | X    |      | X    | X    |
| Henslow's Sparrow<br>( <i>Ammodramus henslowii</i> )        |      |      |      |      | X    |      | X    |      |
| Fox Sparrow<br>( <i>Passerella iliaca</i> )                 |      |      |      |      | X    |      |      | X    |
| Savannah Sparrow<br>( <i>Passerculus sandwichensis</i> )    | X    | X    |      |      | X    |      | X    | X    |
| Lincoln's Sparrow<br>( <i>Melospiza lincolni</i> )          |      | X    | X    |      |      |      |      | X    |
| Song Sparrow<br>( <i>Melospiza melodia</i> )                | X    | X    | X    | X    | X    | X    | X    | X    |
| Vesper Sparrow<br>( <i>Pooecetes gramineus</i> )            | X    | X    | X    | X    | X    |      | X    | X    |
| Swamp Sparrow<br>( <i>Melospiza georgiana</i> )             | X    | X    | X    |      | X    |      | X    | X    |
| White-throated Sparrow<br>( <i>Zonotrichia albicollis</i> ) | X    | X    | X    | X    | X    | X    | X    | X    |

| SPECIES   | ALPO       | EISE       | FONE       | FRHI       | GETT       | HOFU       | JOFL      | VAFO       |
|---|------------|------------|------------|------------|------------|------------|-----------|------------|
| White-crowned Sparrow<br>( <i>Zonotrichia leucophrys</i> )    |            | X          |            | X          | X          |            |           |            |
| Dark-eyed Junco<br>( <i>Junco hyemalis</i> )                  | X          | X          | X          | X          | X          | X          | X         | X          |
| Snow Bunting<br>( <i>Plectrophenax nivalis</i> )              |            |            |            |            |            |            | X         |            |
| Rose-breasted Grosbeak<br>( <i>Phelicticus ludovicianus</i> ) | X          | X          | X          | X          | X          | X          | X         | X          |
| Northern Cardinal<br>( <i>Cardinalis cardinalis</i> )         | X          | X          | X          | X          | X          | X          | X         | X          |
| Blue Grosbeak<br>( <i>Guiraca caerulea</i> )                  |            |            |            |            |            |            |           | X          |
| Indigo Bunting<br>( <i>Passerina cyanea</i> )                 | X          | X          | X          | X          | X          | X          | X         | X          |
| Bobolink<br>( <i>Dolichonyx oryzivorus</i> )                  |            | X          |            |            | X          |            | X         | X          |
| Eastern Meadowlark<br>( <i>Sturnella magna</i> )              | X          | X          |            | X          | X          |            | X         | X          |
| Red-winged Blackbird<br>( <i>Agelaius phoeniceus</i> )        | X          | X          | X          | X          | X          | X          | X         | X          |
| Common Grackle<br>( <i>Quiscalus quiscula</i> )               | X          | X          | X          | X          | X          | X          | X         | X          |
| Rusty Blackbird<br>( <i>Euphagus carolinus</i> )              |            |            |            |            | X          |            |           |            |
| Brown-headed Cowbird<br>( <i>Molothrus ater</i> )             | X          | X          | X          | X          | X          | X          | X         | X          |
| Orchard Oriole<br>( <i>Icterus spurius</i> )                  |            | X          |            | X          | X          | X          |           | X          |
| Baltimore Oriole<br>( <i>Icterus galbula</i> )                | X          | X          | X          | X          | X          | X          | X         | X          |
| Purple Finch<br>( <i>Carpodacus purpureus</i> )               | X          | X          | X          | X          | X          | X          | X         | X          |
| House Finch<br>( <i>Carpodacus mexicanus</i> )                | X          | X          | X          | X          | X          | X          | X         | X          |
| Pine Siskin<br>( <i>Carduelis pinus</i> )                     |            |            |            | X          | X          |            |           |            |
| American Goldfinch<br>( <i>Carduelis tristis</i> )            | X          | X          | X          | X          | X          | X          | X         | X          |
| Common Redpoll<br>( <i>Carduelis flammea</i> )                | X          |            | X          |            |            |            |           |            |
| Evening Grosbeak<br>( <i>Coccothraustes vespertinus</i> )     |            |            | X          |            |            |            |           |            |
| House Sparrow<br>( <i>Passer domesticus</i> )                 |            | X          | X          | X          | X          | X          | X         | X          |
| <b>Total Number of Species</b>                                | <b>113</b> | <b>111</b> | <b>115</b> | <b>126</b> | <b>151</b> | <b>120</b> | <b>94</b> | <b>163</b> |

# Observations from the 2003 North American Migration Count

Bill Etter

## 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 10<sup>th</sup> 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 12<sup>th</sup> 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 10<sup>th</sup>, 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 7<sup>th</sup> and 8<sup>th</sup> 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 104<sup>th</sup> 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 104<sup>th</sup> 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.  
djgobert@webtv.com  
**Carbon** - David Hawk, 521 Walnut Street, Lehighton, PA 18235.  
(610) 377-2407. finch@ptd.net  
**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.  
(814) 782-3925. mbuckwalter@usachoice.net  
**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  
rkoury123@aol.com  
**Dauphin** - Jan Getgood, 24 Meadowood Drive, Hummelstown, PA 17036.  
jan17036@aol.com  
C a r l a n d N a n c y J u r i s  
hbgbrdrs@peoplepc.com  
**Delaware** - Jim Lockyer, 35 Letitia Lane, Media, PA 19063.  
jim@jl-studio.com  
**Elk** - Frank Hughes, Rd#1 Box 14A, Ridgeway, PA 15853.  
birder@ncentral.com  
**Erie** - Ben Coulter, 3431 Argyle Avenue, Erie, PA 16505.  
(814) 838-9773. aeridia@velocity.net  
**Fayette** - Sharon Kanareff, 949 Northridge Dr., Seven Fields, PA 16046  
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  
PO box 653, Shippensburg, PA 17257  
dan\_snell@hotmail.com  
**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  
(724) 354-3493. bcoriole@twd.net  
**Juniata** - Linda Whitesel, RR 3 Box 820, Mifflintown, PA 17059.  
lkwhitesel@acsworld.net  
Elmer Petersheim, RR2, Box 539, Mifflintown, PA 17059  
**Lancaster** - Bruce Carl, 628 Fulton St, Akron PA, 17501. (717) 859-4189.  
carls@desupernet.com  
**Lawrence** – Linda Wagner, 3080 Eldogo Lane, New Castle, PA 16105.  
lwagner342@aol.com  
**Lebanon** - Randy Miller, 607 Woodlawn Drive, Manheim, PA 17545.  
(717) 664-3778. miller@lvc.edu  
**Lehigh** - Jon Levin, 1899 Aster Road, Macungie, PA 18062. (610) 366-9996.  
levinjl@apci.com  
**Luzerne** - Jim Shoemaker, 24 Abrahams Drive, Wyoming, PA 18644.  
wyoshoe@aol.com  
**Lycoming** - Wes Egli, 105 Sherman Street, Muncy, PA 17756.  
(570) 546-3957  
**McKean** - John Fedak, 26 Race Street, Bradford PA 16701.  
jlfedak@charter.net  
**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.  
**Perry** - Mickey Wesler, RR1 Box 466B, New Bloomfield, PA 17068.  
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.  
russ@csonline.net  
**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.  
(724) 938-0655 janda@stargate.net  
**Wayne** - Voni and Joe Strasser, RR2 Box 37, Hawley, PA 18428. (570) 226-8847.  
voni@ptd.net  
**Westmoreland** - Dick Byers, RR1, Box 270B, Stahlstown, PA 15687.  
otusasio@tcsinternet.net  
**Wyoming** - Bill Reid, 73 W. Ross Street, Wilkes-Barre, PA 18701.  
(570) 836-2734. marbilpa@juno.com  
**York** - Randy Phillips, 4146 Schaffer's Church Road, Glen Rock, PA 17327.  
(717) 235-6043. elwoodii44@aol.com

*1030 Old Bethlehem Road, Apt #2  
Perkasie, PA 18944  
better@netcarrier.com*

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    | 9 |
| Grasshopper Sparrow    | -    | -   | -    | 6    | -    | 25    | 6    | 9    | -    | 20    | 2    | 8      | 6     | 3     | 1    | 7    | -    | 1    | 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    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 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    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 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  |

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 |
|---------------------------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Yellow-bellied Flycatcher | -     | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| Acadian Flycatcher        | -     | -    | -    | 1    | -    | -    | -    | -    | -    | -    | -    | 6    | -    | -    | -    | -    | 42   | 4    | 20   | -    | 6    |
| Alder Flycatcher          | -     | -    | -    | -    | -    | -    | -    | 1    | 1    | -    | -    | -    | -    | -    | -    | -    | -    | 1    | 1    | -    | -    |
| Willow Flycatcher         | -     | -    | -    | -    | -    | -    | -    | 3    | 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    | -    | -    | -    |

| 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 |
| 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    |

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 |   |
|-------------------------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|
| 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   |   |

|                      |       | 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  |
| 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

# Harlequin Duck

*Huntingdon County*

Greg Grove

Two forks of the Juniata River converge at Huntingdon. During the 1970s, the Raystown Branch, flowing from the south, was dammed five miles (as the river flows) before reaching its confluence with Frankstown Branch, flowing southeast from Blair County. This Army Corps project resulted in creation of Lake Raystown, the largest lake contained entirely within Pennsylvania's boundaries.

With water released from the lake, the Raystown Branch below the dam rarely freezes during winter and is a reliable location for small numbers of over wintering waterfowl. In addition, the river below the dam cuts through a deep sheltered valley with excellent cover for wildlife, a good place for half-hearted wintering species.



**Plate 1.** Female Harlequin Duck (*Histrionicus histrionicus*) with female Bufflehead (*Bucephala albeola*) along the Raystown Branch of the Juniata River, *Huntington*, 26 January 2003 (*Trudy Kyler*). A first county record.

A lightly traveled gravel and dirt road parallels the Raystown Branch as it winds in great curves from the dam to the confluence with the Frankstown Branch. In places, the road is adjacent to the river and provides good views of waterfowl, with little traffic pressure. (The road is not a high priority for maintenance so caution is advised during bad weather).

On January 26, 2003, David and Trudy Kyler and I were cruising the road looking for waterfowl. With the unusual cold, there had been less-than-usual diversity of waterfowl (and everything else avian) as was evidenced also by the low species numbers on the recent local Christmas

Bird Counts. At about 9:00 a.m. (EST) that morning, we noticed two ducks keeping close company. Stopping for a better look, we saw that one was a female Bufflehead, a fairly common wintering species in Huntingdon County.

The second duck looked odd, with dull plumage and an unusual shape. I first thought that it might be a female scoter because of some obvious light areas on an otherwise dark head. But the pattern did not look quite like anything I could remember for scoters. About that time, Dave said he thought maybe it was a female Harlequin Duck, a species with which he was familiar but which we certainly did not expect in Huntingdon County.

From a distance of perhaps 40 yards, we began a careful examination of the bird, which was diving frequently but otherwise cooperative. Within a few minutes, however, the two birds took flight, spooked by a man walking a dog. We searched the river for about 15 minutes before re-locating the pair a few hundred yards downstream.

The Harlequin Duck, sticking close to the Bufflehead, dove frequently, presumably finding food to its liking (mussels perhaps) on the shallow river bottom. When it surfaced, it popped up with easily apparent buoyancy.

We studied the bird for another half-hour. It had three distinct, light areas on each side of its face. The body color was dark brown, darker on top, lighter below. In flight we had noted the lack of markings on the wings. The dull gray/brown bill was small (especially compared to a scoter).

At this point, we hurried in to Huntingdon to get Trudy's camera. Upon returning to the river, we found the Harlequin and Bufflehead were still present and Trudy was able to get some photos that show the head pattern reasonably well.

Meanwhile the little Harlequin Duck continued to allow reasonably close examination while diving every few minutes. It never strayed more than a few yards from the Bufflehead. Wherever the Bufflehead wandered on the river, the Harlequin followed. This

remained the situation for the next couple weeks as the two were nearly always found in the same general location on the river.

The Harlequin Duck was last seen in Huntingdon County (where it had been "ticked" by a few dozen birders) on February 9, 2003. A few weeks later, on March 4, Mike Lanzone reported a female Harlequin Duck in company with a female Bufflehead on Spring Creek in Centre County, about 30 miles north of the Juniata River location of the Huntingdon bird.



**Plate 2.** Female Harlequin Duck (*Histrionicus histrionicus*) along the Raystown Branch of the Juniata River, *Huntington*, 26 January 2003 (*Trudy Kyler*). This bird was present until 9 February 2003. This or another female Harlequin Duck was found in nearby *Centre* 4 March 2003.

There are about 15 previous records of Harlequin Duck in the state, most at Presque Isle State Park on Lake Erie (McWilliams and Brauning). There have been a couple records each on the Allegheny and Delaware Rivers. In April 1997, a male and female were photographed on the Susquehanna River in Dauphin County. This Huntingdon County record appears to be the first for the central part of the state.

#### Literature Cited:

McWilliams, G.M. and D.W. Brauning. 2000. *The Birds of Pennsylvania*. Cornell University Press, Ithaca, NY.

*RR1, Box 483  
Petersburg, PA 16669*

# Kirtland's Warbler

*Indiana County*

Margaret Higbee

---

The Pennsylvania Society for Ornithology meeting was held in Indiana May 16-18, 2003. So far it had been a good meeting – good fellowship, excellent speakers, great outings, and delicious food. Everyone seemed very satisfied on Saturday night.

Sunday morning, May 18, dawned overcast with showers threatening. In fact, before we left the Holiday Inn for our outings' destinations, it started to spit rain. Many of the meeting attendees decided to cut the weekend short and head home, so several of the scheduled field trips had no participants. No one wanted to go to Yellow Creek State Park, one of the premiere birding spots in western Pennsylvania. I couldn't believe it! I thought EVERYONE would want to go to Yellow Creek. In fact, we all did, so when we, the members of the Todd Bird Club, scheduled outings we included 5 Yellow Creek outings. That was apparently a little overkill on our part. Sunday's Yellow Creek leaders were John Taylor, Gloria Lamer, and Georgette Syster. Since Gloria and Georgette live near the park, they planned to meet their group at the park office. But there was no group. John Taylor was to lead the group to the park.

Saturday's outing to State Game Lands 273, led by Carol Guba, had yielded an excellent assortment of warblers and two Olive-sided Flycatchers. Sunday morning Carol Guba and WCO Patrick Snickles had planned to lead an outing to State Game Lands 248 near Two Lick Reservoir. By popular demand spurred by tantalizing thoughts of Olive-sided Flycatchers, the outing's destination was changed to a repeat of SGL 273. The ragtag crew heading to SGL 273 included Carol Guba, Patrick and Monica Snickles and their young daughter Julia, Tom Lord, Scott Speedy, John Taylor, Gene Zielinski, and my husband Roger and me. Because John and Tom had to drive to Yellow Creek first to inform the other two leaders that their outing had been canceled, we planned to linger near the parking lot so they could catch up with us. Since we had at least 30 minutes before they could possibly return, we

birded the area across Route 954 around the ponds established for passive treatment of acid mine drainage. It started to rain, but that didn't deter the birds. A Louisiana Waterthrush was bopping along the edge of the stream, and a Hooded Warbler and a Northern Waterthrush were singing from the woods behind the first pond. We had an excellent look at a beautiful male Scarlet Tanager – excellent for those of us whose bins weren't completely fogged. We added E. Wood-Pewee, Tufted Titmice, Wood Thrushes, Red-eyed Vireos, Common Yellowthroats, Indigo Buntings, and Northern Flicker. The rain and the birding continued. American Goldfinch, Black-capped Chickadee, Song Sparrow, Ovenbirds, Hairy Woodpecker. We caught a glimpse of a large flycatcher perched atop a snag which caused us a few shots of adrenaline, but after wiping the rain drops from our optics, we realized it was only an Eastern Kingbird – not the sought-after Olive-sided Flycatcher. The only waterfowl on any of the ponds were three Canada Geese. Yesterday, Carol's group had found Wood Ducks and Spotted Sandpiper – yesterday's birds but not today's. This did not seem like an auspicious start.

The Game Commission is allowing SGL 273 to be strip mined in exchange for property in northeastern Indiana County. As a result, the usual access road has been widened so that two coal trucks may pass. As a result, the shrub growth along the edge has been grubbed. In its place is mud. The truck traffic on the dirt road has created more mud. So as we walked, our boots accumulated mud. Periodically, I'd stop and scrape the mud from my boots onto a protruding rock. Scott commented that he felt like he was wearing high heels. Julia was wearing tennis shoes. She was muddy and cold, but she was a trooper. She didn't complain but joined in, using the binoculars to look at birds. It had stopped raining, and the birds were very cooperative – Acadian Flycatchers, E. Phoebe, and Blue-gray Gnatcatcher were busy feeding in the nearby trees. Two Wood Ducks zipped

by overhead, and both Barn and N. Rough-winged Swallows were catching insects just above the road.

We finally reached what we call "the good area." This is the most reliable spot in Indiana County for Worm-eating Warbler. We spotted a female Rose-breasted Grosbeak carrying nesting material. The warblers were here – Black-and-white, Magnolia, Bay-breasted, Blackburnian, Black-throated Green, Yellow, Kentucky, American Redstart, Black-throated Blue, Prairie, and Chestnut-sided. I could not write fast enough. I was wishing I'd brought my recorder. And finally we heard the Worm-eating, and everyone did actually see at least one of the three that were present. While we were trying to glimpse the worm, we heard what I, at that time, believed to be the highlight of the day – a singing Dark-eyed Junco. He was perched in a spruce very near the path. Juncos don't nest in Indiana County; at least, we have been unable to confirm them, and we almost never see them after May 10. But here was a junco singing in SGL 273. Wow!

By now, Julia was shivering, so Patrick and Monica decided they should go. Now we were seven. Shortly after the Snickles left, we found a feeding flock of warblers. There were at least four Tennessee Warblers and two Northern Parulas. A warbler flew into the top of a deciduous tree where it perched, backlit. Putting the binoculars up, I said, "I've got a warbler with wingbars." The bird was completely backlit; all I could see were faint wingbars. Just then it flitted into a spruce where it now had a dark background, making the colors and pattern very clear. I continued, "It's a Kirtland's, and I'm not kidding!" A few members of the crew know me too well, and I was afraid they wouldn't believe me; but I guess that the urgency in my voice convinced them as three of them were able to find the same bird I was viewing. Carol was the first to voice her thoughts, "It is!" John Taylor and Tom Lord saw it, too. Just then a Bay-breasted Warbler flew in, landed on the same branch the Kirtland's had occupied. The Kirtland's flew downhill with the Bay-breasted in hot pursuit.

Both birds entered the vegetation on the opposite side of the path. One flew uphill, one down. But which was which? None of us were certain which bird had gone which direction. While we were waffling, Gene and Scott heard a Hermit Thrush. John, whose specialty is warblers, commented, "That bird just wouldn't slot in. I knew it was none of the regulars." Many of us keep year's lists, but John keeps yearly warbler lists. His goal is to see 30 or more warbler species every spring in Pennsylvania; he always meets his goal and usually surpasses it.

We split up. Roger, John, Tom, and Scott continued up the road out of sight. Carol, Gene, and I hung around the spruce where we first saw the bird. For a while we wandered slowly uphill then down. It began to rain again; this was a downpour. The three of us retreated to the shelter of a cluster of spruce where we waited for the rain to abate. We exchanged "bird tales" and after a while realized that the rain had completely stopped, so we continued our jaunt further into the game lands. We met up with the other four who had also had no luck relocating the Kirtland's. We added a few more species, including Red-tailed Hawk, young Mourning Doves, Chimney Swifts, and one Cerulean Warbler.

By now it was early afternoon We had seen 60 species including 21 warblers, but we could not relocate the best bird of the day. We were tired, cold, thirsty, and hungry and finally by 1:30 admitted that we had failed. We birded our way back to our vehicles, but before we reached the bottom of the hill, we spotted someone approaching, wearing a red flannel shirt. Remembering Bob Mulvihill's program the evening before, we joked about the red flannel shirt. But as we got closer, we realized it was Steve Hoffman. We shared our Kirtland's story with him, describing the exact location where we had first seen it. Steve was enthusiastic—he was going to go look for it. We wished him well and continued back to our cars. It had been a good weekend.

Later that evening when I checked e-mail, there was the following note from Steve Hoffman: "Hi Margaret, Great job on the annual meeting! The field trips were excellent -- I only wish I could have attended more of them. Thanks for the tip on the Kirtland's Warbler -- I found the location right away, and heard the bird sing one time! I never saw it, however. It remained in the thickest part of the Norway Spruce. I only spent about half an hour there, as I needed to get home at a reasonable time.... Thanks, Steve"

3119 Creekside Road  
Indiana, PA 15701

There are six accepted records of Kirtland's Warbler in Pennsylvania. Of these, three are from the species' spring passage through the western part of the state.

- 9/21/1971 one banded at Powdermill Nature Reserve, *Westmoreland*.
- 5/14/1994 in Little Cove, *Franklin*.
- 9/5/1996 at Engleman's Park, *Berks*.
- 5/14/1997 at Presque Isle State Park, *Erie*.
- 8/26/2000 in Williams Township, *Northampton*.
- 5/12/2001 at the Piney Tract, *Clarion*.

There are also undocumented records from Big Elk Creek, *Chester* 9/27/1964, Jennerstown, *Somerset* 9/21-22/1974 and *Allegheny* 5/23/1981.

This *Indiana* report falls nicely into this mid-May period. This small window of time may be something to keep in mind if looking for spring Kirtland's Warblers in Pennsylvania. *Ed*.



**Plate 1.** Lark Bunting (*Chondestes grammacus*). This male was an unexpected visitor at Presque Isle State Park, *Erie*, 25 May 2003. (*Jerry McWilliams*)

# Field Reports

## Lark Bunting

*Erie County*

Location: Presque Isle State Park

Date: May 25, 2003

Time: 8:00 to 8:05 AM

Weather: Mostly clear, wind less than 10mph from the north

Observer: Jerry McWilliams

Viewing conditions: excellent

Viewing distance: Perhaps as close as 100 feet

Optics: Zeiss 10 x 40 Binocular

**Description:** Ben Coulter and I were sitting on a log at the far east end of Gull Point conducting the International Shorebird Survey, when I glanced to my right to see a bold black and white bird land in a small sapling about 100 feet away from us. I quickly pointed my binocular in the direction of the bird and immediately identified it as an adult male Lark Bunting. I got Ben's attention and he quickly got on the bird before it flew to the ground. I got my camera out of the bag and Ben and I slowly approached the spot where it went down. We soon spotted the bunting hopping about on the ground occasionally picking at the ground among the patches of vegetation. It continued in this behavior slowly moving away from us until it came to the open sandy beach where it quickly took off flying in an easterly direction gaining altitude as it flew over the water and out of sight.

The following details were noted. It was approximately the size and shape of a Bobolink. It was entirely jet black except for the upper wing coverts, which were pure white. The tertials were sharply edged in white. The bill was sparrow or finch shaped, dark, and rather thick. The tail was short and black (the white tail tips were not noted). When it flew the white upper wing covers showed as flashy white patches on an otherwise all black bird. There was no mistaking this bird for any other North American species. Bobolink was the closet contender, but male Bobolinks have buffy napes with white scapulars, not wing coverts, and white rumps. The bill on a Bobolink is much smaller and narrower at the base. I obtained several photographs of the bird on the ground and a couple in flight. I have much experience observing Lark Buntings, where I have seen hundreds on the breeding grounds throughout the western prairie states.

## Red Phalarope

*Northampton County*

Location: Martins Creek Flyash Basin owned by PPL, Northampton County

Date: 5/25/2003

Time: 0830-1130

Observer: Michael Schall

Viewing conditions: Overcast with some mist.

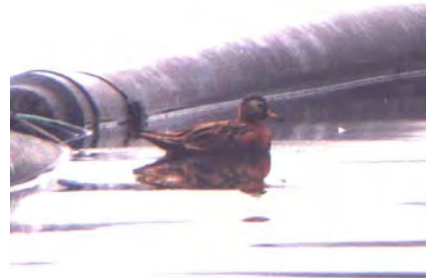
Viewing distance: 75-100 yards.

Optics: Pentax 10 x 42 binoculars, Leica APO-Televid 77 scope

I found the Red Phalarope on the Flyash Basin 5/25/03 at around 0830 with a mist/drizzle coming down. A stalled storm system on the East Coast may have brought this bird inland. After viewing the bird through my scope for 5 minutes, I went to my vehicle to check my field guides. I thought it was a Red Phalarope because of the reddish neck and underparts and thick bill but wanted to be sure. After checking my 2 guides, I grabbed my cell phone and went back to the flyash to make sure it was still there. I called Rick Wiltraut and a few other birders so someone else could verify my find. Rick arrived in 35 minutes and others arrived later. Floyd Miller brought a digital camera for pictures. Amazingly the bird stayed until the next morning allowing other birders a chance to see this rare bird.

The bill was thick and yellow in color with a black tip. It was shorter and thicker than the 2 Red-necked Phalaropes I have seen, which had long needle-like black bills. The neck and underparts were chestnut-red with no streaks or markings. The head had a dark brownish cap and forehead and there were white cheek patches that partially encompassed its dark eyes. The upperparts were dark brown with buff golden feather fringes. Part of the white wing stripe could be seen when it was sitting. Most of the time it was jabbing its bill at the water's surface, moving side to side but never spinning in a complete circle. Several times it flew to a new spot but always within a short distance. This got me nervous because no one else had arrived. In flight, the white wing stripes could be seen on the upperparts. Underneath, the body looked dark and the wing linings were white. It was a consensus among the birders that it was a male because the reddish underparts were not extremely bright and the white face patches were new extremely pronounced as seen in the field guides. It

stayed in the water the entire time and was by itself. The legs were not seen well and size estimated at about 8 inches.



**Plate 1.** Red Phalarope (*Phalaropus fulicaria*) Martins Creek Flyash Basin, *Northampton*, 25 May 2003 (*Floyd Miller*). A first county record. More likely to be found in fall and even then it is rare, there are very few documented spring records for the state. In addition to this bird, there was a one day sighting in April from *Chester*.

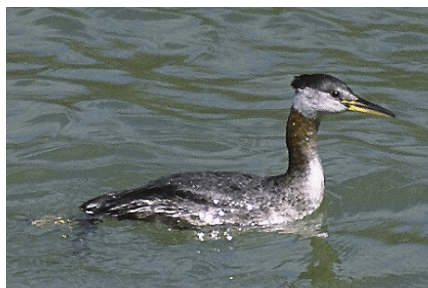
**Comparisons:** Paging through my Sibley Guide for shorebirds that might be similar, which have reddish underparts and less than 10 inches that might be possible alternatives yielded only 2 species. Red Knots in breeding plumage have similar reddish underparts but are larger, stocky birds with black bills, a grayish back, and no white face patches. Curlew Sandpipers are reddish underneath but have a very different long decurved black bill and rufous color on its back and no white face patches when in breeding plumage.

The most likely confusing birds would be the Red-necked and Wilson's Phalaropes. Bill length, color, and shape eliminates these 2 species. Both have long needle-like, black bills. The Phalarope observed had a shorter thick bill that was yellow with a black lip. The Red Phalarope was in breeding plumage, which makes it easier to distinguish from the other species. Neither have the complete reddish underparts like the Red Phalarope. The two Red-necked Phalaropes I have seen (both in winter plumage) had longer thinner necks compared to the shorter, thick neck of this Red Phalarope. The white check patch is not present on a Red-necked Phalarope and Wilson's Phalarope has a white throat with 3 dark stripe going thru the head and a gray cap which eliminates these two species. In flight, the Red-necked and Wilson's show primarily white underparts and this Phalarope had completely dark (reddish) underparts.

# Red-necked Grebe Invasion 2003

Deuane Hoffman

It started with the observation of a single Red-necked Grebe on February 21, 2003 along the Delaware River by Adam Miller. What started, you may be asking, the answer is the great Red-necked Grebe invasion of 2003! With that simple sighting, the numbers of Red-necked Grebes reached historical proportions via a statewide irruption. By the beginning of April 2003 Red-necked Grebes had been recorded in 59 of the 67 counties in Pennsylvania with observed totals approaching one thousand individuals!



**Plate 1.** Red-necked Grebe (*Podiceps grisegena*) Allegheny River at Rosston, Armstrong, 10 March 2003. (Scott Kinzey)

What caused this unprecedented occurrence and has anything like this ever happened before? First, I will attempt to explain some of the factors behind the event, then an historical overview of past events.

The leading theory of the invasion has to do with the timing of Red-necked Grebe migration and the amount of ice on the northern Great Lakes of Huron and Superior. It is thought that the beginning of Red-necked Grebe migration begins with a movement from the winter grounds along the northern Atlantic coast, especially in the vicinity of The Bay of Fundy. Although predominantly wintering on saltwater, some evidence suggests that as many as a few thousand over-winter on the Great Lakes (Stout and Nuechterlein,

1999). Christmas Bird Count data demonstrates that this species has increased off the upper Bruce Peninsula in early winter (Bruce Peninsula National Park CBC, 1978-99). This Great Lakes winter population accounts for approximately ten percent of the East Coast populations of roughly 20,000 birds.



**Plate 2.** Red-necked Grebe (*Podiceps grisegena*) Monongahela River at Southside Riverfront Park, Allegheny, 4 March 2003. (Scott Kinzey)

With bitter cold temperatures through January and into February of 2003, the northern Great Lakes began to freeze solid, a rare event indeed. The Great Lakes do not just freeze up as a continuous unit. The Lakes are a much more dynamic and complex system than that as I am sure you must realize. Ice data for all of the Great Lakes is available at <http://www.natice.noaa.gov/greatlakes.htm>. This is the home of the National Ice Center. The images are of GIS photos and show the growth and extent of the ice coverage for the Great Lakes divided into east and west regions. The photos are taken approximately once per week and provide interesting insight to the complexity of the Great Lakes.

It has been theorized there is a close correlation with the freeze-up of Huron and Superior and the influx of Red-necked Grebes. The weekly data showing dramatically increased ice coverage of these lakes corresponds with the arrival

of large numbers of birds in PA, NY, WV, etc. around the week of 2/23 – 3/1. It's not conclusive evidence, but fairly convincing, I think. Interestingly, a half-century ago, Todd (Todd 1940), advanced the theory of Great Lakes ice-over to account for a number of February records from Warren County and other northwestern PA locales.

Another possible factor for the influx has to do with a phenomenon known as the North Atlantic Oscillation or NAO. This phenomenon affects currents, sea surface temperature, salinity, etc. The NAO is thought to have an effect on plankton populations, and thus on fisheries and ultimately, perhaps, piscivorous birds. Information about NAO can be found at two wonderful websites, <http://www.ldeo.columbia.edu/NAO/> and <http://www.met.rdg.ac.uk/cag/NAO/>.



**Plate 3.** Red-necked Grebe (*Podiceps grisegena*) Allegheny River at Rosston Armstrong, 11 March 2003. (Dan Yagusic)

As to the history of this event I have found only two instances where a large-scale invasion has occurred in the past. During the winter of 1959 unprecedented numbers, for that time, of Red-necked Grebe were found throughout Pennsylvania. (Poole, unpublished manuscript). Sightings from twelve counties were reported with highs of, 38 on 3/19 on the Delaware River at Yardley, Bucks County; 18 on 3/19, at Tinicum, Philadelphia County;

18 on 3/12, on Lake Pahagaco, Spring Grove, York County; 13 on 3/28, from Green Lane Reservoir, Montgomery County.

The next recorded influx occurred during February and March of 1994. The numbers for this invasion proved even more impressive than the 1959 totals with birds being found in 23 counties with over 300 individuals. Highs recorded include, 35 on 3/31, on Presque Isle Bay, Erie County; 26 on 2/20, on the Susquehanna River at Marietta, Lancaster County; and 21 on 2/27 on the Allegheny River at Kittaning, Armstrong County. (PA Birds, 8:35) During the 1994 invasion it is important to note that Lake Superior had frozen solid for the first time in over fifty years just prior to the time the invasion began.



**Plate 4.** Red-necked Grebe (*Podiceps grisegena*) Allegheny River at Rosston Armstrong, 11 March 2003. (Dan Yagusic)

The numbers for the 2003 occurrence eclipse the totals from the previous events by a wide margin. As stated previously birds were recorded in 59 counties and totaled approximately 1048 individuals. High counts from across the state include, 91 on 3/7, on the Susquehanna between Marietta and Washington Boro, Lancaster County; 90 on 3/9, on the Allegheny at Rosston, Armstrong County; 78 on 3/1, on the Delaware River, Philadelphia County; and 50 on 3/2, on the Juniata River at Newton Hamilton, Mifflin County. With the prolonged sub-freezing temperatures recorded during the winter of 2002-2003 all standing bodies of water were frozen solid

throughout Pennsylvania by February leaving only large creeks and rivers with available open water. Most of the records during the initial period of the invasion came from such watercourses such as the Allegheny, Juniata, Susquehanna and Delaware rivers. It was not until some thawing occurred in March that reports came from counties where only standing bodies predominate.



**Plate 5.** Red-necked Grebe (*Podiceps grisegena*) Marsh Creek State Park, Chester, 15 March 2003. (Nick Pulcinella)

So, what caused the great Red-necked Grebe invasion of 2003? Great Lakes ice forcing wintering birds out and migrating birds to find open water? Abnormal oceanic conditions causing stress on the food chain? Or, was the cause a combination of all of these conditions? I believe that the latter is true with the Great Lakes playing the largest role in the scenario. Science may never know the true reason behind these infrequent yet fascinating occurrences.

We, here in the times of instant communication, can enjoy the ability to find out what is going on around the state at a moments notice and use that information to find out if it is happening in our area too. It is very likely that the invasions of 1959 and 1994 were just as big as the one in 2003. With the lack of an instant statewide network like PA Birds listserv people could only find out via telephone or word-of-mouth limiting the ability of spreading the information quickly. The invasion was a marvelous thing to behold

both in person, by observing unprecedented numbers of Red-necked Grebe, and via email, by tracking all of the sightings around the state. I hope every one of you had the opportunity to participate in this marvelous experience!

Literature Cited:

*Pennsylvania Birds* V8:35. Summary of the Season - January through March 1994, Franklin C. And Barbara Haas, Editors-in-chief.

Todd, W.E C., 1940. *Birds of Western Pennsylvania*. University Pittsburgh Press, Pittsburgh.

3406 Montour St.,  
Harrisburg, PA 17111

**Table 1. Summary of Red-necked Grebe sightings in Pennsylvania in Spring 2003**

| County     | First Date | Number | High Date | Number | Total in County |
|------------|------------|--------|-----------|--------|-----------------|
| Adams      | 04/05      | 2      | 04/05     | 2      | 2               |
| Allegheny  | 02/28      | 2      | 03/09     | 23     | 50              |
| Armstrong  | 03/01      | 68     | 03/01     | 90     | 90              |
| Beaver     | 02/27      | 1      | 03/01     | 33     | 51              |
| Bedford    | 03/21      | 1      | 03/21     | 1      | 1               |
| Berks      | 03/02      | 2      | 03/02     | 2      | 4               |
| Blair      | 03/30      | 2      | 03/30     | 2      | 2               |
| Bradford   | 03/21      | 3      | 03/21     | 3      | 3               |
| Bucks      | 02/02      | 1      | 03/11     | 39     | 100             |
| Butler     | 03/22      | 1      | 03/23     | 3      | 3               |
| Cambria    | 04/07      | 1      | 04/07     | 1      | 1               |
| Carbon     | 03/28      | 1      | 03/28     | 1      | 1               |
| Centre     | 03/01      | 2      | 03/01     | 2      | 2               |
| Chester    | 03/10      | 1      | 04/03     | 5      | 6               |
| Clarion    | 02/28      | 2      | 04/04     | 4      | 4               |
| Clinton    | 03/03      | 2      | 03/03     | 3      | 6               |
| Columbia   | 03/03      | 2      | 03/03     | 3      | 5               |
| Crawford   | 04/12      | 3      | 04/12     | 3      | 3               |
| Cumberland | 03/04      | 2      | 03/10     | 6      | 8               |
| Dauphin    | 02/26      | 1      | 03/14     | 48     | 73              |
| Delaware   | 03/09      | 2      | 03/09     | 2      | 2               |
| Erie       | 02/25      | 1      | 03/05     | 3      | 10              |
| Fayette    | 03/04      | 1      | 03/04     | 2      | 3               |
| Forest     | 02/28      | 1      | 03/02     | 3      | 4               |
| Franklin   | 03/15      | 1      | 03/15     | 1      | 1               |
| Fulton     | 03/29      | 2      | 03/29     | 2      | 2               |
| Huntingdon | 03/02      | 3      | 03/03     | 18     | 21              |
| Indiana    | 03/04      | 1      | 03/04     | 5      | 12              |
| Juniata    | 03/03      | 4      | 03/08     | 38     | 64              |
| Lackawanna | 04/10      | 1      | 04/10     | 1      | 1               |

| County         | First Date | Number | High Date | Number | Total in County |
|----------------|------------|--------|-----------|--------|-----------------|
| Lancaster      | 03/01      | 35     | 03/07     | 91     | 145             |
| Lawrence       | 03/28      | 1      | 03/28     | 1      | 1               |
| Lebanon        | 03/14      | 14     | 03/14     | 14     | 14              |
| Lehigh         | 03/05      | 2      | 03/05     | 2      | 5               |
| Luzerne        | 03/04      | 1      | 03/04     | 3      | 5               |
| Lycorning      | 03/01      | 5      | 03/03     | 7      | 10              |
| McKean         | 03/14      | 2      | 03/14     | 2      | 2               |
| Mercer         | 03/26      | 2      | 03/26     | 2      | 2               |
| Mifflin        | 03/02      | 50     | 03/02     | 50     | 75              |
| Monroe         | 03/30      | 1      | 03/30     | 1      | 1               |
| Montgomery     | 03/22      | 3      | 03/22     | 3      | 3               |
| Montour        | 03/04      | 7      | 03/04     | 10     | 13              |
| Northampton    | 02/21      | 3      | 03/01     | 9      | 12              |
| Northumberland | 03/03      | 12     | 03/03     | 12     | 19              |
| Perry          | 03/03      | 5      | 03/03     | 5      | 10              |
| Philadelphia   | 02/28      | 29     | 03/01     | 78     | 105             |
| Potter         | 03/01      | 1      | 03/01     | 1      | 1               |
| Schuylkill     | 03/02      | 1      | 03/02     | 1      | 1               |
| Snyder         | 03/03      | 3      | 03/03     | 3      | 3               |
| Somerset       | 03/04      | 2      | 03/04     | 2      | 6               |
| Susquehanna    | 03/23      | 3      | 03/23     | 3      | 3               |
| Tioga          | 03/30      | 1      | 03/30     | 1      | 1               |
| Union          | 03/03      | 2      | 03/03     | 2      | 2               |
| Venango        | 03/01      | 29     | 03/01     | 29     | 36              |
| Warren         | 03/02      | 2      | 03/02     | 9      | 15              |
| Washington     | 03/08      | 1      | 03/08     | 1      | 1               |
| Westmoreland   | 03/02      | 1      | 03/02     | 1      | 1               |
| Wyoming        | 04/02      | 1      | 04/02     | 1      | 1               |
| York           | 03/02      | 1      | 03/23     | 6      | 20              |
| <b>Total</b>   |            |        |           |        | <b>1048</b>     |

# Summary of the Season - Spring Migration 2003

Mike Fialkovich

The endless winter remained locked in place across the state through March and even into early April in some areas. Snow fell across the northern part of the state during the first week of April. Lakes were frozen through March (including much of Lake Erie), resulting in a poor waterfowl numbers. As the season progressed, winter finally relaxed its grip, and precipitation changed to abundant rain in May.

The heavy and persistent rains in May hampered observation of the passerine migration; there were few if any days with a wide variety of birds filling the trees.

The harsh and extensive winter caused the Great Lakes to freeze for the first time in nine years which resulted in an incredible southward invasion of **Red-necked Grebes** in the eastern U.S. (see related article in this issue). Unusually high numbers of this species were reported in Delaware, Indiana, Maryland, Massachusetts, New Jersey, New York, North Carolina, Ohio, Rhode Island, Tennessee, Virginia, and West Virginia. In Pennsylvania, **Red-necked Grebes** were reported in 59 counties in March and April. Most were in small numbers, however an astounding 89 were counted on the Allegheny River in Armstrong County, perhaps the largest concentration the state has ever seen.

Nine counties reported surprisingly late dates for **Red-necked Grebes** following the invasion. Some dates spilled over into the Summer Season, but are included here. Below is a list of counties with late dates for Red-necked Grebes:

Allegheny - 6/3  
Bucks - 5/26  
Clarion - 5/29  
Dauphin - 6/11  
Lebanon - 5/14  
Lancaster - 6/2  
McKean - 6/1  
Philadelphia - 5/10  
Venango - 5/31

The last invasion occurred in March 1994 when grebes were reported in 23 counties with a high count of 35 in Erie.

Possibly related to the frozen Great Lakes was the widespread occurrence of **Long-tailed Ducks** in the state. Reports came from 28

counties with an impressive 168 in *Armstrong* 3/26. Waterfowl fallouts were noted the last week of March in *Armstrong*, *Indiana*, *Lancaster*, *McKean*, and *Schuylkill*. See the county notes for details.

An **Anhinga** was seen soaring over *Berks*, and another over *Schuylkill*. **Greater White-fronted Geese** were reported in 2 counties, and **Ross' Geese** were found in 5 counties. The **Richardson's** race (subspecies *hutchinsii*) of the **Canada Goose** was in *Bucks* in March. Single **Eurasian Wigeon** were found in *Dauphin* and *Indiana*. The European race of the **Green-winged Teal** (the nominate race found in Eurasia, subspecies *crecca*, Common Teal) was found in *Delaware*. A female **Harlequin Duck** was seen on one day in *Centre*, and a **Barrow's Goldeneye** was in *Northampton*.

Single **Mississippi Kites** were reported in *Berks* and *Chester*. To compare the differences in yearly observations, last spring 14 birds were reported in 4 counties which was exceptional for the state. A **Swainson's Hawk** was seen at a hawk watch in *Huntington*.

Interesting were the concentrations of **Short-billed Dowitchers** on 5/26. The numbers were surprising for this uncommon spring migrant in the state. In *Berks* from 5/24-26, 237 were counted at various locations, and on 5/26, there were high counts of 21 in *Bucks*, 59 in *Lancaster*, and 55 in *Northampton*. *Northampton* also generated a high spring count (for the county) of 31 of **Black-bellied Plovers** on 5/26. A total of 11 **Red-necked Phalaropes** were recorded in 3 counties including a group of 6 in *Lancaster*. Single **Red Phalaropes** were found in *Chester* and *Northampton*.

The only **Franklin's Gull** reported this spring was in *Indiana*. A total of 11 **Little Gulls** were found in 5 counties. A **Black Skimmer** was in *Lancaster*, and **Arctic Terns** were seen in *Berks* and *Bucks*.

A **Snowy Owl** that spent the winter in Monroe was present until late March. A **Monk Parakeet** spent the winter in *Luzerne* and was still present through the period. A **Scissor-tailed Flycatcher** was present for 2 days in

*Lycoming*. The bird was photographed. **Loggerhead Shrikes** were reported in *Cumberland*, *Fayette*, and *Philadelphia*.

The yellow race of **Palm Warbler** (subspecies *hypochrysea*) was seen in *Erie* this spring, where the western race (subspecies *palmarum*) is more common. Although warbler sightings were slowed by the cool rainy weather, two rarities generated excitement. Two **Swainson's Warblers** were reported in May. The first was in *Allegheny* which remained for 8 days and was well photographed. The second was found during the North American Migration Count 5/10 in *Mifflin* and was only seen that day. There are at least 11 records in the state. The second rarity was a **Kirtland's Warbler** found in *Indiana* appropriately during a PSO Meeting field trip. Currently there are only 6 accepted records in the state for this species. **Connecticut Warblers** were found in *Allegheny* and *Clarion/Venango*.

The only **Summer Tanager** reported was in *Bucks*. This species was regular in *Greene* for many years where the state's only (small) breeding population could be found. Recently it has become difficult to find, and may be extirpated as a breeding species from the state.

An adult male **Lark Bunting** was observed and photographed in *Erie* for a first county record. A **Harris' Sparrow** visited a feeder in *Chester* 5/4. A male **Painted Bunting** was present at a feeder in *Bucks* from February to 5/22.

An adult male **Yellow-headed Blackbird** visited a feeder in *Monroe* for a single day in May. Northern finches were only found in a few locations this season. A **Red Crossbill** was in *Dauphin*, a **White-winged Crossbill** was in *Lebanon*, **Pine Siskins** were only found in *Clarion* and **Evening Grosbeaks** were in *Bedford* and *Indiana*.

Full or partial reports were received from 44 counties this season.

805 Beulah Road  
Pittsburgh, PA 15235

# Birds of Note - March through May 2003

(Species not expected or reported in fewer than five counties this period)

This report summarizes unexpected species and species reported in 5 or fewer counties during the reporting period.

Rare and unusual sightings for which details have been submitted will be reviewed by the Pennsylvania Ornithological Records Committee. "No Desc" means no description of the bird was submitted, or we are unaware of such a submission at this time.

Birds in *Italics* are uncommon, but occur during this time period in most years.

Birds Underlined occur at least 4 to 7 out of 10 years during this time period.

*Italics Underlined* occur fewer than 4 out of every 10 years during this time period.

**Great Cormorant** - *McKean*: an immature 4/8-4/10 at Redbridge on Kinzua Lake (John Fedak); *Northampton*: 3 wintered along the Delaware River between Sandt's Eddy and the Martins Creek Power Plant (var. obs.), 1 flying past the Martins Creek Flyash Basin 5/25 (var. obs.); *Philadelphia*: 51 on the Delaware River 3/16 (Matt Sharp).

**Anhinga** - *Berks*: 1 on 4/28 flying over the Schuylkill River in Reading (Peter Saenger); *Berks/Schuylkill*: 1 on 4/27 soaring at the North Lookout at Hawk Mountain (Kyle McCarty).

**Snowy Egret** - *Berks*: 5 on 5/17 near Hamburg (Ellen Grim, Kerry Grim, Matt Wlasniewski); *Dauphin*: 1 on 4/4 in South Hanover Township (Bernie Crist); *Delaware*: present 4/15-5/15 (observer and location not indicated); *Philadelphia*: present 4/20-5/3 (observer and location not indicated).

**Little Blue Heron** - *Bucks*: 2 on 4/28 at Bradford Dam (Ron French); *Chester*: 1 on 4/21 at Marsh Creek (Grier Saunders), and 1 on 5/6 at Grier Saunder's home property in Honey Brook Township; *Philadelphia*: 1 on 4/20 and 5/3 at John Heinz National Wildlife Refuge at Tinicum (observer not indicated).

**Cattle Egret** - *Indiana*: 1 on 5/13 near Penn Run (Dave Beatty) was a second county record; *Lancaster*: 1 on 4/30 at Wood's Edge Pond (Dan Heathcote); *Philadelphia*: 1 on 4/20 (observer and location not indicated).

**Yellow-crowned Night Heron** - *Cumberland*: 1 on 4/2 at the Conodoguinet Creek at West Fairview (Deuane Hoffman); *Dauphin*: present from 4/15 on (observer not indicated); *York*: 1 on 4/10 at Kiwanis Lake (Peter Robinson).

**Glossy Ibis** - *Bucks*: 7 on 4/6 flying away from the Penn-Warner Tract (Matt Sharp); *Cumberland*: 1 on 3/29 & 3/30 at Mud Level Road (Dan Snell, Regina Reeder); *Dauphin*: 1 on 4/21-25 at Wildwood Lake (Cindy Dunn, Sandy Lockerman); *Delaware*: 4 on 4/4 flying over the Rose Tree Park Hawk Watch (observer not indicated); *Lancaster*: 5 on 3/16 near Muddy Run (Lorraine Cashman, Mickey Cashman); *Philadelphia*: 1 on 4/27 (Wyncote Audubon birders), 1 on 5/5 (Ned Connolly), and 1 on 5/23 (Denis Brennan), all at John Heinz National Wildlife Refuge at Tinicum. *York*: 1 on 4/24-4/27 at State Game Lands near New Salem (Randy Phillips).

**Greater White-fronted Goose** - *Bucks*: 2 from 3/12-15 at Nockamixon State Park (Bill Etter), *Northampton*: 1 on 3/15 at the Delaware River (Rick Wiltraut).

**Ross' Goose** - *Berks*: 1 on 3/22 & 3/23 at Lake Ontelaunee (Rudy Keller, Joan Silagy); *Chester*: 1 at Struble Lake in late March or early April (Larry Lewis); *Lancaster*: several seen 3/14-18 at Middle Creek WMA and Muddy Run Pumped Storage Area (Tom Amico, Carolyn

Blatchley, Deuane Hoffman, et al.); *Lebanon*: present up to 3/15 at Middle Creek WMA (Jeff Hackman); *Mercer*: 1 on 3/22 & 3/23 on Line Rd. (Troyer Family).

**Canada Goose (Richardson's Race)** - *Bucks*: 1 on 3/5 at Nockamixon State Park (Bill Etter).

**Eurasian Wigeon** - *Dauphin*: 1 on 3/26 & 3/27 at Wildwood Lake (Richard Williams, Patricia Williams); *Indiana*: 1 on 3/15 at Yellow Creek State Park (Amber Beale, Bronnie Bekker, Fritz Bekker, Lee Carnahan, Ross Gallardy, Steve Graff, Dory Jacobs, Georgette Syster, Greg Zawrotny) was a second county record. *York*: a male on 4/13 at Codorus State Park (Karen Lippy) and was seen at another location in the park on 4/15 (Beth Pugliese)

**Green-winged "Common" Teal** - *Delaware*: 1 from 3/9-13 at Springton Reservoir (Doris McGovern).

**Harlequin Duck** - *Centre*: 1 female on 3/4 on Spring Creek near Belefonte (Mike Lanzone).

**Black Scoter** - *Chester*: 1 on 4/11 at Marsh Creek (Gerry Serianni); *Dauphin*: 1 on 4/15 at the Susquehanna River (Deuane Hoffman, Ron Freed); *Erie*: 1 on 5/7 (Bob Sundy); *Lancaster*: 4 on 4/5 at the Susquehanna River (Jonathan Heller).

**Barrow's Goldeneye** - *Northampton*: 1 on 3/9 seen from the Portland Footbridge (Terry Master); 1 on 3/11 at the Fowl Rift area (Michael Schall).

**Mississippi Kite** - *Berks*: 1 on 4/28 flying over Bern Twp. (Joan Silagy); *Chester*: 1 on 5/20 at West Town (Tim Sterrett).

**Swainson's Hawk** - *Huntington*: 1 on 4/20 at Tussy Mountain (Mike Lanzone).

**Golden Eagle** - *Bedford*: a total of 105 counted at the Allegheny Front 3/1-8 (Tom Dick); *Centre*: 7 on 3/14 migrating over Boalsburg (Dan Ombalski); *Crawford*: 1 on 4/6 at Tamarack Lake (Ronald Leberman); *Huntington*: a total of 199 migrants at Tussy Mountain from 3/4-3/29 (Jayson Ryan, Dan Ombalski, Dave Brandes, Chuck Widmann); *McKean*: a wintering bird remained up to 3/28 near Marshburg (John Fedak).

**Northern Bobwhite** - *Adams*: one heard 5/11 along a bird survey route (Peter Robinson). *Delaware*: 1 female in May with chicks on Vernon Road (Ann Curtin); *Indiana*: several on 5/18 at the Conemaugh Floodlands (Lee Carnahan, Roger Carnahan); *Philadelphia*: 1 in early May in Bartram's Gardens was believed to be an escape (Doris McGovern). *York*: very scarce in the county these days, were reported mid-May at just 3 locations (Jon Dale, Peter Robinson).

**American Golden Plover** - *Bucks*: 1 on 5/26 at the Penn-Warner Tract was only the second spring record for Bucks (Devich Farbotnik); *Northampton*: 1 on 5/26 at Mt. Pleasant Road (Arlene Koch).

**Willet** - *Bedford*: 5 on 5/5 at Shawnee State Park were a probable first county record (Ken Byerly); *Butler*: 1 on 5/5 at Lake Arthur, Moraine State Park (Debbie Yovanovich); *Cambria*: 9 on 5/8 at Prince Gallitzin State Park (John Salvetti); *Clarion*: 1 on 5/4 at Kahle Lake (Margaret Buckwalter); *Erie*: single birds on 4/28, 5/4 & 5/13 at Presque Isle State Park (Jerry McWilliams, Ben Coulter); *Venango*: 5 on 5/4 at Kahle Lake (Mike Leahy).

**Upland Sandpiper** - *Adams*: two 4/24 along Pumping Station Rd. (Art & Nonie Kennell); 1 on 4/27 in a hayfield at the Gettysburg National Military Park. *Butler*: present at

two sites in the northern part of the county (Gene Wilhelm); *Centre*: 1 on 4/13 along RT. 220 near the Blair County line (Alan Gregory); *Clarion*: first reported 4/21 at Mt. Airy (Shirley Monrean), up to 4 on 4/27 at Mt. Airy (Walter Fye); *Crawford*: 2 on 5/10 and 1 on 5/13 at the Pymatuning Goose Management Area (Marven Blyer); *McKean*: 1 heard on 5/10 near Anin Creek (Francie Long, Merrill Gonzalez, John Fedak); *Somerset*: probable breeding pairs at the Garrett Mudflats Area and north of Berlin (Jeff Payne, Loretta Payne); *Venango*: first seen 4/21, and 6 were counted at two locations near Barkeyville.

**Whimbrel** - *Lancaster*: 1 on 5/25 at the Conejohela Flats (Dan Heathcote).

**White-rumped Sandpiper** - *Allegheny*: 4 on 5/8 at Imperial (Dave Wilton); *Luzerne*: 1 on 5/12 at Plymouth Flats (Rick Koval); *Somerset*: 1 on 5/31 at the Garrett Mud Flats (Jeff Payne, Lauretta Payne).

**Baird's Sandpiper** - *Luzerne*: 1 on 5/12 at Plymouth Flats (Rick Koval).

**Short-billed Dowitcher** - *Berks*: a high count of 237 were present at various ponds 5/24-26 (Rudy Keller); *Bucks*: present 5/9-26 with a high count of 21 on 5/26 at the Penn-Warner Tract (Devich Farbotnik); *Lancaster*: a record spring count of 59 on 5/26 at the Conejohela Flats and the Rocks Area of the Susquehanna River (Jerry Book, Jonathan Heller); *Northampton*: a record high count of 55 on 5/26 at Mt. Pleasant Road (Michael Schall, Adam Miller).

**Red-necked Phalarope** - *Bucks*: 1 on 5/9 at the Penn-Warner Tract (Devich Farbotnik), 2 at Churchville Reservoir 5/17 (Butch Lishman, Henry "Ish" D'Alessandro), 1 on 5/28 at Peace Valley Park (Mike Homel, Chuck Crunkleton); *Centre*: 1 on 5/24 at Bald Eagle State Park (Robert Snyder); *Lancaster*: 6 on 5/22 at The Rocks Area on the Susquehanna River (Jerry Book).

**Red Phalarope** - *Chester*: 1 on 4/21 at Marsh Creek (John McNamara); *Northampton*: 1 on 5/25 & 5/26 at Martins Creek Flyash Basin was a first county record (Michael Schall).

**Laughing Gull** - *Bucks*: present from 3/29 on with an impressive 30,000 on 5/10 at the Penn-Warner Tract (NAMC); *Delaware*: 200 on 5/20 flying over Prospect Park (Jim Lockyer); *Lancaster*: present 5/26 (location and observer not indicated); *Philadelphia*: approximately 100 present from March through May.

**Franklin's Gull** - *Indiana*: 1 on 5/13 at Yellow Creek State Park (Margaret Higbee, John Taylor) was a fifth county record.

**Little Gull** - *Bucks*: 1 on 4/10 & 4/11 at Nockamixon State Park (Bill Etter) was a second county record; *Dauphin*: 1 on 4/2 at Ft. Hunter (Carolyn Blatchley, Deuane Hoffman); *Erie*: 2 birds on 4/5 west of Presque Isle (Ben Coulter), 1 on 4/7 (Jerry McWilliams), and 1 on 4/17 at Presque Isle (Ben Coulter); *Lancaster*: 2 on 3/29 & 3/30 on the Susquehanna River at Long Level (Jonathan Heller, Tom Garner, Dan Heathcote, Eric Witmer), 2 on 4/5 at the same location may have been the same birds (Jonathan Heller); *McKean*: 1 or 2 on 4/4 at Kinzua Lake near Redbridge (John Fedak).

**Thayer's Gull** - *Bucks*: 1 on 3/29 at the Tullytown Dump (Matt Sharp); *Erie*: 1 on 3/8 at Presque Isle State Park (Jerry McWilliams).

**Iceland Gull** - *Bucks*: 1 on 5/9 at the Penn-Warner Tract (Devich Farbotnik); *Erie*: 3 present 3/14-22 at Presque Isle State Park (John Fedak, Jerry McWilliams) and 1 at the late date of 5/11 at Presque Isle (Jerry McWilliams);

*McKean*: 1 on 4/14 on Kinzua Lake near Redbridge (John Fedak).

**Lesser Black-backed Gull** - *Bucks*: widespread with a peak on 4/10 of 72 at Nockamixon State Park and 26 at Lake Towhee Park (Bill Etter); *Erie*: a total of 7 from 3/11-20 and 4/7 & 21 at Presque Isle State Park (Ben Coulter, Jerry McWilliams); *Lancaster*: present 4/27 (location and observer not indicated); *Mercer*: 1 on 4/8 at Lake Wilhelm (Troyer Family).

**Glaucous Gull** - *Bucks*: 1 on 5/10 at the Penn-Warner Tract (Devich Farbotnik); *Erie*: 9 present 3/6-4/21 (Jerry McWilliams, Linda McWilliams), 1 on 5/13 at Presque Isle State Park was late (Dave Wilton).

**Black Skimmer** - *Lancaster*: 1 on 5/31 ranged from the Conejohela Flats to the Rocks Area on the Susquehanna River (Jerry Book).

**Arctic Tern** - *Berks*: 1 first year bird on 5/24 at Glen Morgan Lake (Katrina Knight, Ken Lebo) (no desc); *Bucks*: 1 adult on 5/26 at the Penn-Warner Tract (Devich Farbotnik) was a second county record.

**White-winged Dove** - *Adams*: 1 on 5/14 near East Berlin by a home owner (Fran Norton).

**Barn Owl** - *Bucks*: present; *Cumberland*: recorded 3/1 (observer and location not indicated); *Dauphin*: present the entire period; *Lebanon*: a pair on 5/30 with 4 young at State Game Lands 145 (Randy Miller); *Somerset*: 1 on 4/22 observed hunting over Buffalo Creek at dawn was the first in the county for years (Jeff Payne).

**Snowy Owl** - *Monroe*: present up to 3/22 at Brodheadsville (Claus Herrmann).

**Long-eared Owl** - *Bedford*: 1 heard and seen on 3/16 at Dunning Creek Wetlands (Tom Dick); *Bucks*: 1 at Blomming Glen 3/9 (Cameron Rutt), 1 at Nockamixon State Park 3/15 (Bill Etter), and 1 remained at Peace Valley Park to 3/24 (August Mirabella); *Erie*: 2 from 3/20-22, and 1 from 4/23-27 at Presque Isle State Park (Jerry McWilliams).

**Scissor-tailed Flycatcher** - *Lycoming*: 1 on 5/8 & 5/9 at Montoursville next to the Williamsport Regional Airport (Fred Stiner, Joe Yoder, Dave Ferry, Wayne Laubscher).

**Loggerhead Shrike** - *Cumberland*: 1 on 5/4 along I-81 near Plainfield (Jason Horn); *Fayette*: 1 on 5/10 during the NAMC (no desc)(Sharon Kanareff); *Philadelphia*: 1 on 5/7 perched on a wire along Spring Lane (Chuck Hetzel).

**Northern Shrike** - *Bedford*: 1 on 3/14 at Dunning Creek Wetlands (Connie Hunt, Jerry Fetter); *Centre*: 1 up to 3/5 at Bald Eagle State Park (Molly Heath); *Erie*: 1 on 3/1 and 3/14 at Fairview (Jerry McWilliams), 3 from 3/1- 3/16 at Presque Isle State Park (Don Snyder, Linda McWilliams); *Montgomery*: present up to 3/19 at Green Lane Reservoir (var. obs.).

**Lawrence's Warbler** - *Chester*: 1 on 5/10 in Embreeville Park (John McNamara, Ted Drozdowski); *Dauphin*: 1 on 5/3 in the Stony Creek Valley (Pete Fox, Deuane Hoffman, Bill Youtz) which was relocated during the NAMC in the same location (Tom Smith); *Erie*: 1 on 5/11 at Presque Isle State Park (Ben Coulter); *Schuylkill*: 1 on 5/10 at State Game Lands 229 near Tremont (Dave Barber, Patti Barber).

**Brewster's Warbler** - *Allegheny*: 1 on 5/7 in Findlay Twp. (Geoff Malosh); *Butler*: 1 from 5/13-24 at Evans City (Clark Trauterman); *Centre*: 1 on 5/23 and beyond at State Game Lands 176 (Robert Stone); *Erie*: 1 on 5/6 (Ben Coulter) and 1 on 5/11 (Jerry McWilliams) at Presque Isle State Park; *Indiana*: 1 on 5/6 at Blue Spruce County Park (Carol Guba, Margaret Higbee) was still present 5/22. A Brewster's was at this site last year; *Philadelphia*: 1 on 5/10 in Carpenter's Woods (Keith Russell).

**Orange-crowned Warbler** - *Butler*: 1 on 5/10 during the NAMC at Moraine State Park (Clark Trauterman, Gene Wilhelm); *McKean*: 1 on 5/26 on Crooker House Road in Bradford, and another the same day on Race Street in Bradford (John Fedak).

**Kirtland's Warbler** - *Indiana*: 1 on 5/18 at State Game Lands 273 was a first county record (Carol Guba, Margaret Higbee, Tom Lord, John Taylor).

**Palm Warbler "Yellow Race"** - *Erie*: recorded 4/19-26 at Presque Isle State Park (Ben Coulter).

**Prothonotary Warbler** - *Berks*: 1 on 5/15 near Gibraltar (Matte Spence); *Bucks*: 1 on 5/10 and 5/26 at the Penn-Warner Tract (Devich Farbotnik); *Crawford*: 1 on 5/19 and 5/26 along McMichael Road at Conneaut Marsh (Mike Fialkovich, Dave Rieger, Jim Valimont), 1 on 5/26 at Geneva (Conneaut Marsh) (Marven Blyer); *Luzerne*: 1 on 5/4 at the PP&L Riverlands (observer not indicated); *Mercer*: present from 5/10-13 and possibly nesting at the Shenango River, east of Shenango Reservoir (Marty McKay); *Montgomery*: 1 from 5/5-10 at the Unami Creek Valley (Ken Reiker, George Franchois). *York*: 1 on 5/11 at Gifford Pinchot State Park (Randy Phillips)

**Swainson's Warbler** - *Allegheny*: 1 from 5/8-16 at Sewickley Heights Park (Chris Knoll) was a second county record; *Mifflin*: 1 on 5/10 along Stone Mountain near Belleville (Irvan Byler Jr., Irvan Byler Sr.).

**Connecticut Warbler** - *Allegheny*: 1 on 5/23 & 24 at Sewickley Heights Park (Chris Knoll); *Clarion/Venango*: 1 on 5/9 at Kahle Lake (Ron Montgomery)

**Summer Tanager** - *Bucks*: 1 on 5/13 near Bowman's Hill (Chuck Crunkleton, Elaine Ryan).

**Clay-colored Sparrow** - *Allegheny*: 2 from 5/26-31 at Imperial (Chris Knoll); *Berks*: 1 from 3/16-4/25 at a feeder in Leesport (Dean Kendall); *Clarion*: 3 from 6/6 to the end of the period at Mt. Zion (Ron Montgomery); *Crawford*: 1

from 3/31-4/6 at a feeder in Meadville (Ronald Leberman); *Erie*: At least 3 from 5/6-5/19 at Presque Isle (Jerry McWilliams, Betsy Potter, Mike Fialkovich); *Schuylkill*: 1 on 4/24 at State Game Lands 160 (Tom Clauser); *Venango*: 1 on 3/27 (observer and location not indicated).

**Lark Bunting** - *Erie*: 1 adult male 5/25 at Presque Isle State Park (Jerry McWilliams, Ben Coulter) was a first record for Erie County.

**Harris' Sparrow** - *Chester*: 1 on 5/4 at a feeder in Kennett Square (Susan Beach).

**Lapland Longspur** - *Dauphin*: 1 on 3/16 at the Hershey farm fields (Carolyn Blatchley); *Delaware*: 3 on 3/2 at the Philadelphia International Airport (Al Guarente); *Erie*: 10 on 3/25 was a new high count for spring (Jerry McWilliams); *Schuylkill*: 1 at Pitman on 3/16 (Dave Kruel); *Venango*: 1 on 2/8 at Rhodes Farm near Kahle Lake (Russ States).

**Snow Bunting** - *Philadelphia*: present on 4/2 at John Heinz National Wildlife Refuge at Tinicum (Mike Ferguson); *Schuylkill*: 2 on 3/1 at Rough and Ready (Dave Kruel).

**Painted Bunting** - *Bucks*: present from February to 4/22 at a feeder in Lower Makefield Twp. (Forrest & Mary Coburn).

**Yellow-headed Blackbird** - *Monroe*: 1 adult male on 5/13 at a feeder in Tobyhanna (Betty Knecht).

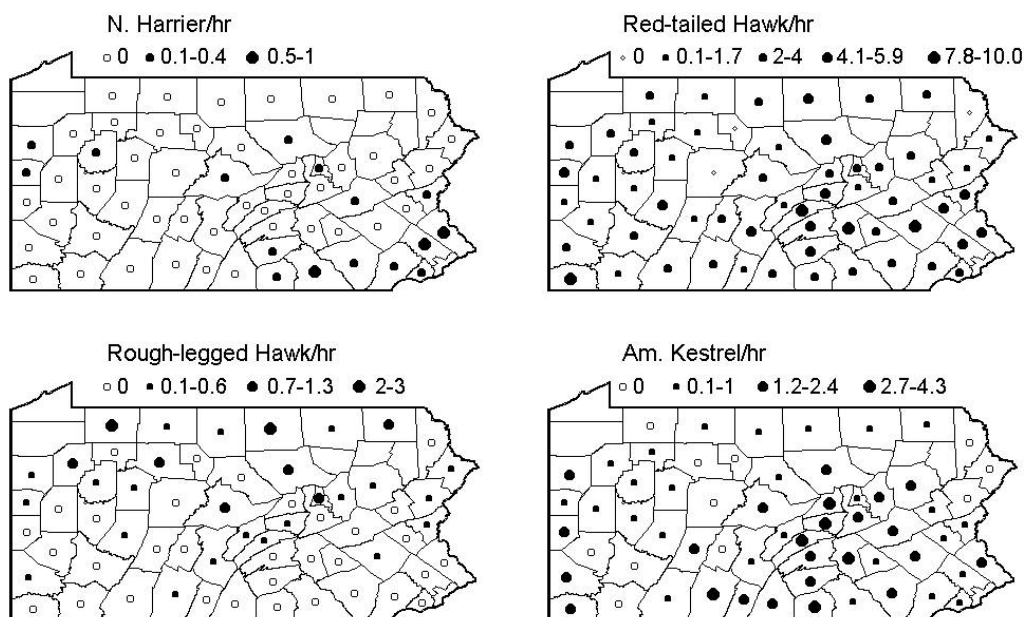
**Red Crossbill** - *Dauphin*: 1 on 4/27 in the Stony Creek Valley (Deuane Hoffman, Andy McGann).

**White-winged Crossbill** - *Lebanon*: 10 on 4/12 at SGL 145 (Randy Miller).

**Pine Siskin** - *Clarion*: 2 on 4/8 at Fisher at a feeder (Ruth Schurr), 2 on 5/17 at Cook Forest (Gil Twiest).

**Evening Grosbeak** - *Bradford*: 10 on 5/10 at a feeder at Echo Beach Road (near Wysox), and small numbers seen at the same location prior to and following this date (Anita Duvall, Terry Duvall); *Indiana*: 15 on 3/15 at Saltsburg (Ann Speedy).

### 2003 Winter Raptor Survey



The above maps were inadvertently omitted from Greg Grove's 2003 Winter Raptor Survey in Pennsylvania article in the last issue.

## Local Notes - Mar 2003 through May 2003

### Adams County

Locations: Gettysburg National Military Park (GNMP), Mountain Road (MR), State Game Land 249 (SGL)

147 species were reported during the spring 2003 season, including only 17 species of warblers. The low number of warbler species is the reason for the decline in the number of total species. Several warbler species (Blue-winged, Prairie, Worm-eating, Canada, Chat, etc.) were no doubt present, but were just not seen or reported. During the spring 2002 quarter there were 152 species reported, including 26 species of warblers. For the same quarter of 2001 there were 157 species reported, including 29 species of warblers. The North American Migration Count was a "washout" in Adams County. There was steady rain all morning and some rain in the afternoon, so participation was minimal.

Two **Red-throated Loons**, an uncommon visitor, were at L. Meade on 4/13 (CB). A single **American Bittern** was found 4/20 at SGL (PJR) at a small pond ringed with cattails. At dusk on 3/22 in York Springs a flock of 18 **Great Blue Herons** were seen flying north in a V-formation (DJG). Another nice flock seen migrating northward was a flock of 50 **Tundra Swan** that were flying over MR 3/16 (RDS). There were 40 **Green-winged Teal** at a restored wetland pond at SGL on 4/20 (PJR). Other uncommon waterfowl visitors were the 4 **Redheads** that were at L. Heritage on 3/14 (RDS), and much less common yet was the **Surf Scoter** that was at L. Meade from 4/16 to 4/24 (PJR).

There were several reports of **Osprey** that passed through the county from 4/13 to 5/21. Two **Northern Harrier** were seen – 1 was seen 3/5 at MR (RDS), and another was seen 4/12 along County Line Rd. (DJG). An albino **Red-tailed Hawk**, about 95% white, was perched along Red Rock Rd. on 4/27 (PJR). There were only 4 reports of **Ring-necked Pheasant**, and just a single report of a **Northern Bobwhite**, heard 5/11 along a bird survey route (PJR). N. Bobwhite are very scarce in the county these days.

Along Pumping Station Rd., 2 **Upland Sandpiper** were found 4/24 (ANK), and one was heard calling 6/13 (RDS). They continue to nest in very small numbers in Freedom Twp., in spite of the homes being built in the hay fields in the nesting area. It was nice that there was an Upland Sandpiper on 4/27 in a hayfield at the GNMP, because the fields there are safe from homebuilding.

There were 4 reports of **Caspian Tern**, including 4/25 at the Flatbush Golf Course (PK).

A **White-winged Dove** was seen 5/14 by a home owner (FN), in an Ash tree next to the home, near East Berlin. The woman is very familiar with the species from having lived in Florida for a number of years. A few days before seeing it, she heard a bird calling that she thought sounded like a White-winged Dove, but she was not willing to believe it until she saw the bird. Searching for the bird on 5/15 and 5/18 was not successful.

The only **Short-eared Owl** report was of 5 seen 3/12 along Shriver Rd. (BCS). **Common Raven** now nest at 2 locations in the county, but were not reported. Most **Horned Lark** reports are of flocks on manure on snow covered fields, but they do nest in the county. A few were found along each of three different bird survey routes, 5/11, 5/14, and 5/15 (PJR).

Art and Nonie Kennell had been seeing quite a few **Eastern Bluebirds** going into their bluebird boxes for the night. They wondered just how many were using the boxes, so

they kept count the evening of 3/4. They counted 18 going into one box, and 16 that went into a second box!

There was a nice flock of 25 **Am. Pipit** in a plowed field at GNMP on 4/27 (PJR), and an even larger flock of 60 **Cedar Waxwings** at MR on 5/21 (RDS).

An early **Pine Warbler** was reported 3/8-15 in York Springs (DJG). 5/15 was a good day for **N. Waterthrush**, with 6 found along a bird survey route (PJR).

There were six reports of **Fox Sparrow** from 3/8 to 4/7, with a high of 7 at the Fisher feeder on 3/11 (CBF). A **Dickcissel** or two are found in the county more years than not, but there was no report of any this year. The only **Rusty Blackbird** report was a single bird 4/20 at SGL (PJR).

Compiler: **Peter Robinson PO Box 482, Hanover 17331, (717) 632-8462, pabirder@hotmail.com** Chuck Berthoud (CB), Clyde & Barb Fisher (CBF), Don & Jen Gilbert (DJG), Bart & Judie Hogan (BJH), Bob Keener (BK), Phil Keener (PK), Art & Nonie Kennell (ANK), Nancy Locher (NL), Bob Moul (BM), Fran Norton (FN), Rusty Ryan (RR), Ralph & Deb Siefken (RDS), Barry & Carole Simon (BCS).

### Allegheny County

Locations: Allegheny River (AR), Frick Park (FP), Imperial (IMP), McKees Rocks (MKSR), Monongahela River (MR), Ohio River (OR), Sewickley (SEW).

There were a few late **Common Loons** this spring: 1 was seen flying over Harrison Hills Park 5/3 (PH, JV), and 1 was on a pond at IMP 5/8 (MV, DW, CK). The season was highlighted by the invasion of **Red-necked Grebes**. Grebes were reported from 3/1 through 4/20 along all Pittsburgh's rivers, and at IMP. The highest single day count was 23 on 3/9 (DY). A **Pied-billed Grebe** was seen at the AR on 5/26 which was late (PB). High counts of **Double-crested Cormorants** include 197 on 4/7, 139 on 4/10, and 112 on 4/14 at Neville Island on the OR (SK). A few **Great Egrets** were reported this spring: 1 on 3/31 in Harmar Township (JT, LT), 2 on 4/15 in Findlay Township (GM), and 1 on 5/29 at the Mayview Wetlands (BJ).

Waterfowl numbers and variety were excellent in March and April, the best we've seen in years around Pittsburgh. This was probably due to the freezing of the Great Lakes as well as more people scouring area rivers for birds. A group of over 100 **Tundra Swans** were seen flying over SEW 3/12 (CK). Duck highlights include 4 **Gadwall** at Fox Chapel 3/9 (DW, JH), 2 on 3/11 on the AR (PB), 2 at Duck Hollow 4/6 (MF, JS, SS), 10 **American Wigeon** 3/9 on the AR (DY), 5 **Blue-winged Teal** at North Park 4/6 (MK), a **Northern Shoveler** 3/23 at North Park (BM, MF), 2 at McKees Rocks 3/30 (DR), 1 in Findlay Township 4/5 (MV), and 2 at IMP 4/11-12 (MV, GM). An unusually late pair of **Northern Pintails** were seen on the AR at Tarentum 5/11-29 (RP). A flock of 12 **Green-winged Teal** were at Coraopolis 3/13 (GM), 6 **Canvasback** were seen 3/4 at Oakmont (DY), and 4 were found on 3/14 at Coraopolis (GM). A group of 14 **Ring-necked Duck** were at North Park 3/23 (BM, MF), 4 **Greater Scaup** were at Fox Chapel 3/9 (DW, JH), and 15 **Lesser Scaup** were at Tarentum 3/9 (RP). A **White-winged Scoter** was a great find 3/6 at Tarentum (RP). Several **Long-tailed Duck** reports were excellent for the county: One

# PHOTOGRAPHIC HIGHLIGHTS



**Great Horned Owl** (*Bubo virginianus*) adult with young *Allegheny*, 10 May 2003. (Scott Kinzey)



**Black Tern** (*Chlidonias niger*) at Bald Knob area pond, Imperial, *Allegheny*, 19 May 2003, (Scott Kinzey). This species had a good showing this spring with at least 35 birds recorded from 19 counties.



**Black and white Warbler** (*Mniotilta varia*). This interesting partial melanistic bird was photographed at Presque Isle State Park, *Erie*, 1 May 2003 (*Ben Coulter*). The head appears to be melanistic, while the remainder of the bird has normal plumage.



**Black Vultures** (*Coragyps atratus*) Two young at the nest *Berks* 20 May 2003 5/20/03 (*Rich Bonnett*)



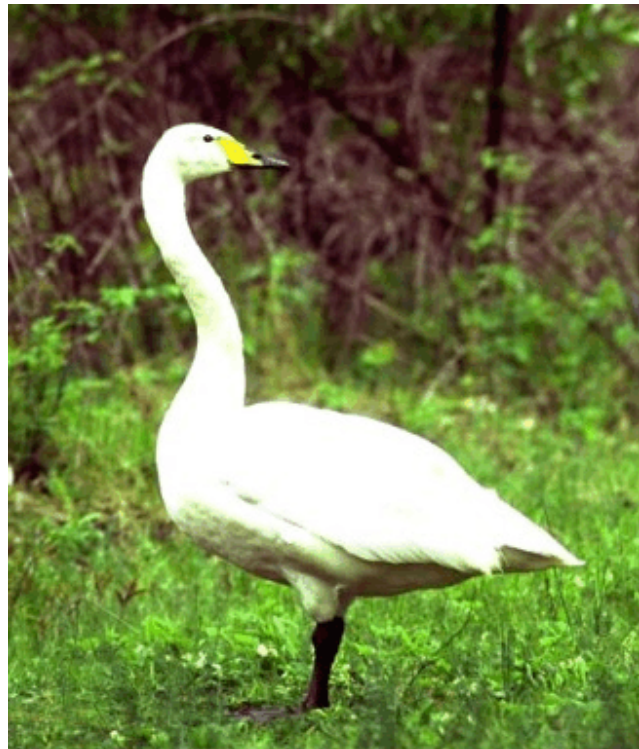
**American Tree Sparrow** (*Spizella arborea*) bird at left and **Field Sparrow** (*Spizella pusilla*) bird at right, were netted at the Powdermill Banding Lab, *Westmoreland*, 22 March 2003 (*Bob Mulvihill*). As Bob points out on the Lab's website, while each species may differ in bill coloration and overall head coloration, the similarity of body form and body plumage between these two sparrows in the genus *Spizella* is evident when the two are seen side-by-side. A closer look will show that the lower wing bar and the edging of the tertials (the three innermost flight feathers of the wing) are less extensively white in the Field Sparrow. Although the Field Sparrow is the smaller of the two species in body mass and wing length, it has an almost equally long (and therefore, a proportionally much longer) tail compared to the American Tree Sparrow.



**Swainson's Warbler** (*Limnothlypis swainsonii*) This bird was discovered at Sewickley Heights Park, *Allegheny* 8 May 2003. It remained until at least 16 May when photographed (*Scott Kinzey*). This was a second county record.



**Glossy Ibis** (*Plegadis falcinellus*). This bird photographed 24 April 2003 (*Kurt Kugle*) in the company of a Great Egret (*Ardea alba*), was present at Wildwood Lake, *Dauphin* 21-25 April 2003. There were at least 20 sightings of this Glossy Ibis this spring.



**Whooper Swan** (*Cygnus cygnus*). This bird initially caused a stir among local birders when it appeared in Bedminster Twp., *Bucks* (*Curt Cowgill*). Hopes were dashed when a second individual showed up in late May. Both were traced to a nearby owner who has let them breed and escape. For several years now, Whooper Swans have been reported sporadically in Pennsylvania. Could this be the source of those sightings?



**Willet** (*Catoptrophorus semipalmatus*). This species staged a mini-invasion in the western part of the state with at least 24 individuals reported. Nine were photographed here at Printz Galitzin State Park, Cambria 8 May 2003 (Rory Brower).



**Orchard Oriole** (*Icterus spurius*). A first-year male, Swissdale, Clinton, 30 April 2003 (Wayne Laubscher).



**Rose-breasted Grosbeak** (*Pheucticus ludovicianus*). Adult male, Swissdale, Clinton, 30 April 2003 (Wayne Laubscher).



**Redhead** (*Aytha americana*). Male at Bellfonte, Centre, 5 March 2003, (Wayne Laubscher)



**American Pipit** (*Anthus rubescens*) One from a small flock that fed in snow covered fields in Lock Haven, *Clinton*, 30 March 2003 (Wayne Laubscher).



**Scissor-tailed Flycatcher** (*Tyrannus forficatus*). By far, one of the best birds of the Spring Season, this individual photographed on 9 May 2003 (Wayne Laubscher), spent two days near the Williamsport Regional Airport at Montoursville, *Lycoming*. The last twitchable Scissor-tail in the state was about six years ago.



**Snowy Owl** (*Bubo scandiaca*). This holdover from the winter season was present up to 22 March 2003 Brodheadsville, *Monroe* (Brian Hardiman)

was seen 3/9 at Fox Chapel (DW, JH), 1 at Duck Hollow 3/11 (JF), and 6 at Tarentum 3/27 (RP). There were 16 **Bufflehead** on the AR 3/9 (DY), 4 **Common Goldeneye** were on the OR at McKees Rocks 3/8 (SK), 14 **Hooded Mergansers** were on the AR 3/9 (DY), 13 **Red-breasted Mergansers** were there 3/4 (SK), and 20 **Common Mergansers** were there 3/4 (DY). **Ruddy Ducks** were reported 3/29 – 4/30, with a great count of 19 at IMP 4/13 (JH, DW). A female **Hooded Merganser** was seen with 9 young at IMP 5/10 (JV).

A **Merlin** was seen in Cheswick 3/28 (PH), and single **Osprey** were reported 3/30 - 4/30 on the AR, OR, and at IMP. A **Ring-necked Pheasant** was seen 3/23 at IMP (DY). Very uncommon for the county, a **Virginia Rail** was at IMP 5/4, and a **Sora** was in nearby Clinton the same day (MV, JH, DW).

Shorebird highlights from IMP (unless otherwise indicated) include a **Semipalmated Plover** 5/5-9 (GM, MV, DW, CK), **Greater Yellowlegs** first reported 4/13 (JH, DW), and **Lesser Yellowlegs** 5/1 (MV). Three **Solitary Sandpipers** were at Harrison Hills Park 5/3 (PH, JV). Two **Semipalmated Sandpipers** were present 5/16 (GM), 5 **Least Sandpipers** 5/9 (GM), and 4 **White-rumped Sandpipers** were a nice find 5/8 (DW). A good count of 12 **Pectoral Sandpipers** were seen 3/25 (GM), 6 **Dunlin** were present 5/9 (GM), and 5/18 (BS, MV). **Wilson's Snipe** are typically seen in large numbers at IMP, however this year the maximum count was only 4 on 4/16 (GM). **American Woodcock** were first reported 3/15 (GM). A good count of 8 were at SEW Heights Park 3/21 (CK).

There were a few large movements of **Ring-billed Gulls** in March and April. On 3/6, 250 were seen at Riverfront Park on the MR; 600 were counted at McKees Rocks 3/9, and on 4/14 over 200 were counted at Leetsdale, along the OR (SK). **Herring Gulls** continue to nest on the Highland Park Bridge over the AR in Pittsburgh. Six nests were counted 5/10, and 13 were counted 5/18. A downy chick was seen 5/26 (SK). A maximum count of 64 birds were seen 5/6 (SK). Unusually high numbers of **Bonaparte's Gulls** were reported in the county this spring. A great count of 19 were on the MR 4/7 (CT), 10 were at Neville Island on the OR 4/10 (SK), and 23 were at Leetsdale on the OR 4/14 (SK). One late bird was at IMP 5/3-4 (WS, DS, RT).

There were good numbers of terns in the area this spring. Seven **Caspian Terns** were reported at Leetsdale 4/7 (SK), 1 was flying over FP 4/15 (DR), 1 was at the Dashields Dam on the OR 4/19 (MV) and 1 was at Leetsdale 5/31 (BS). **Forster's Terns** were reported in singles and pairs from 4/7 – 5/30 on all area rivers; 3 were seen at the Dashield's Dam 5/29 (MV), and a great count of 14 were at Leetsdale 5/31 (BS). A **Black Tern** was seen at IMP 5/16 (MV), remaining until 5/19 (MV, SK), the first since May 2000.

Regarding the terns and other birds, Scott Kinzey reported the following movement of birds 4/14: "I just witnessed one of the most unique movements of birds that I have seen on Pittsburgh's Rivers. On the Ohio River at the boat launch in Leetsdale small flocks of gulls and terns flew down river over about 30 minutes. These were all flying from Allegheny County towards Beaver County and Ohio. I haven't seen anything like this before in the area." Scott's list included: 200+ **Ring-billed Gull**, 10 **Herring Gull**, 23 **Bonaparte's Gull**, 7 **Caspian Tern**, 4 **Wood Duck**, 4 **Red-breasted Merganser**, 1 **Spotted Sandpiper**, and 100+ **Double-crested Cormorant** (although some cormorants were further upriver).

A **Whip-poor-will** was heard calling at FP 5/2 (CD). Despite searching the following evening, the bird was not heard again. A bird was heard calling at State Game Lands 203 in Wexford 5/10 (SK) and 5/13 (GM). This site has been a reliable location for this species for many years. Part of the area was logged this year, so we will have to monitor the presence of this

species. Fortunately, the area the birds are usually found was not logged.

There were a few **Red-headed Woodpecker** reports this spring: 1 was seen 4/7 at a school in Ross Twp. (BV), 1 at Greentree 4/20 (LK), and 1 at Bridgeville 5/1 (LS).

An **Olive-sided Flycatcher** was seen at Harrison Hills Park 5/29 (PH, JS, SS). An **Alder Flycatcher** was singing at North Park 5/24 (BM). A few **Philadelphia Vireos** were reported: 3 were at FP 5/12 (TF), 1 at IMP 5/13 (GM), and 1 at FP 5/15 (JS, SS, DW, JH).

There was a fallout of swallows 5/12, a cold, windy day with heavy rain. Over 40 **Northern Rough-winged Swallows** were counted at FP (TF). What's interesting is they were seen along a wooded stream, not around an open body of water as one would expect. At least 200 swallows were searching for insects on the AR at Verona. Most were **Barn Swallows**, however at least 2 **Cliff Swallows** and 2 **Bank Swallows** were seen (MF). Both species are uncommon in the county. A **Bank Swallow** was seen 5/13 at IMP (GM).

**Swainson's Thrushes** were reported in low numbers this spring, and **Gray-cheeked** went unreported. **American Pipits** were in good numbers at IMP this spring. High counts include 85 3/31 and 4/2 (GM).

We recorded a respectable 35 species of warblers this spring, plus a **Brewster's Warbler** seen 5/7 in Findlay Twp. (GM). Two **Cape May Warblers** were found 5/9 at SEW (CK), 1 on 5/14 and 5/16 at FP (NH, JS, SS), and 1 on 5/24 at IMP (BS). A very early **Black-throated Green Warbler** was seen at FP 4/9 (SS). This was the second earliest record in the county since I've been compiler. A **Pine Warbler** was at FP 4/15 (JS, SS), and 1 was at IMP 5/20 (DY). **Palm Warblers** were reported from 4/19 to 5/19 at IMP, FP, SEW, and Pine Twp. **Worm-eating Warbler** reports were good with 2 at SEW 5/4 (JH, DW), 1 at Harrison Hills Park 5/4 & 5/13 (WS, DS), and 1 at FP 5/20 (SS, DF). A **Northern Waterthrush** at FP 5/12 (TF), and a **Mourning Warbler** 5/24 at SEW (CK) were the only reports. A **Wilson's Warbler** was at SEW 5/15 (CK), and 5/19 at IMP (GM). A **Canada Warbler** was seen 5/9-10 at SEW (CK), and 5/19 at IMP (GM). A **Connecticut Warbler** was a great find at Sewickley Heights Park 5/23-24 (CK).

The highlight of warblers (and of the season) was the **Swainson's Warbler** found at Sewickley Heights Park 5/8 (CK). The bird was singing from a moist thicket of Arrowwood, and remained in the area until 5/16. Typical of this species, it sang persistently the entire time it was present. Fortunately, the bird's song was recorded and it was well photographed. Documentation has been sent to PORC. This was the second county record.

Two **Clay-colored Sparrows** were seen at IMP 5/26 (CK) and 1 was seen through the end of May (v.o.). Two **Rusty Blackbirds** were at IMP 3/15 (GM), and 2 were at SEW 4/2 and 4/16 (CK).

Observers: **Mike Fialkovich, 805 Beulah Road, Pittsburgh, 15235, 412-731-3581, mpfial@sgi.net**, Paul Brown, Tommy Byrnes, Ben Coulter, Cyndi Dickson, Joe Fedor, Ted Floyd, Donna Foyle, Nathan Hall, Walter Hammond, Paul Hess, Joyce Hoffmann, Bill Judd, Margie Kern, Linda Kuehn, Kate St. John, Scott Kinzey, Pat Lynch, Sherron Lynch, Chris Knoll, Bob Machesney, Geoff Malosh, Carol McCullough, Fred McCullough, Linda Mockenhaupt, Rob Protz, Ed Richards, Dave Rieger, Kathy Saunders, Dana Shaffer, Walt Shaffer, Sam Sinderson (SSN), Becky Smith, Jack Solomon, Sue Solomon, Linda Sporrer, Chuck Tague, Joan Tague (JTA), Steve Thomas, Ryan Tomazin, John Totten, Lindsay Totten, Mark Vaas, Jim Valimont, Bob VanNewkirk, Susanne Varley, Bill Walbek, Glenn Walbek, Joe

Walko, Dave Wilton, Dan Yagusic, John Yuhaniak, Various Observers (v.o.).

### Armstrong County

Locations: Allegheny River (AR), Elderton (ELD), Keystone Power Plant (KPP), Keystone Reservoir (KR), Kittanning (KT), Margaret (MG), Rosston (RT), Whitesburg (WB)

The AR provided an important rest stop for Red-necked Grebes as well as other waterfowl in early March since area lakes and ponds remained mostly frozen till after mid-month. A noteworthy waterfowl fallout occurred in the county on 3/26. Otherwise the season was uneventful.

Two **Common Loons** and 3 **Pied-billed Grebes** at KR 3/23 (MH, RH) were firsts; last respective dates noted were 5/22 (SG) and 4/7 (MH, RH). Nine **Horned Grebes** stopped by the KPP pond which never freezes on 3/13 (MH, RH); the 3/26 (MH, RH) fallout yielded 85 at KR; last noted were 2 at KR 4/7 (MH, RH). An amazing 89 **Red-necked Grebes** were found on the AR between KT and RT 3/1 (MH, RH); away from the river 8 were listed 3/26 (MH, RH) at KR where 2 remained through 4/7 (MH, RH). First 2 **Double-crested Cormorants** appeared at RT 3/29 (JV, JVa); KR yielded 11 on 4/7 (MH, RH) with 1 lingering there till 5/22 (SG). A single **Green Heron** near ELD 5/10 (JP, SP) was the lone report. First **Turkey Vultures** were all reported 3/8 near KT (MH, RH), at RT (DD, DDa, MH, RH, McC), and south of Templeton (DD, DDa, MH, RH).

**Canada Goose** maxima included 150 at RT 3/8 (MMc) and 72 at KR 4/7 (MH, RH). Two to 3 **Mute Swans** were reported on the river at RT through 3/28 (PH, JS, SS); another was listed at Crooked Creek 5/10 (JV, JVa). RT yielded 175 **Tundra Swans** on 3/4 (RG, SG); 2 at RT 3/11 (PF, LH, KJ) were last. **Wood Ducks**, which wintered on the AR, continued with as many as 4 at RT on 3/8 (DD, DDa, MH, RH); first arrivals were 3 at Blanco on 3/13 (RH). One **Gadwall** was logged at both RT and Manorville 3/9 (DV, JV); 5 at RT 3/11 (PF, LH, KJ) were last. Four **American Wigeons** appeared at RT 3/4 (EC, KJ, DL, GW); by 3/9 (DV, JV), 12 were present; last recorded was 1 at KR 3/26 (MH, RH). The AR was responsible for all **American Black Duck** sightings with reports ranging from 4 on 3/4 (RG, SG) to 2 on 3/11 (PF, LH, KJ, DY). **Mallard** maxima included 45 at RT 3/11 (DY) and 11 at KR 5/22 (SG). Three early **Blue-winged Teal** at RT 3/9 (DV, JV) comprised the lone report. **Northern Shoveler** reports included 1 at KPP 3/23 and 3 at KR 4/7 (both MH, RH). RT yielded 9-10 **Northern Pintails** 3/4 (EC, KJ, DL, GW); last recorded were 18 on 3/11 (DY), also at RT. The only **Green-winged Teal** were 2 on 3/23 (MH, RH) at KR. Ten to 12 **Canvasbacks** at RT on 3/4 (EC, KJ, DL, GW) were nice, but the 200 found at RT in the early morning hours of 3/9 (DV, JV) were amazing; unfortunately, they did not linger. Last **Canvasbacks** were 22 that accompanied the 3/26 (MH, RH) KR fallout. Three **Redheads** were sighted at Freeport 3/2 (DL); 170 landed at RT 3/10 (SK); last spotted were 3 at KR 3/26 (MH, RH). RT **Ring-necked Duck** reports included 6 on 3/1 (MH, RH), 23 on 3/9 (DV, JV), and 15 by 3/14 (PF, LH, KJ); 74 at KR 3/23 (MH, RH) had dwindled to 10 by 4/7 (MH, RH). Two **Greater Scaup** at RT were first 3/1 (MH, RH); other RT reports included 5 on 3/4 (EC, KJ, DL), 3/8 (DD, DDa, MH, RH), and 3/9 (DV, JV); 1 lingered at RT 3/28 (PH, JS, SS). RT yielded 4 **Lesser Scaup** 3/1 (MH, RH); high count occurred 3/26 (MH, RH) at KR when 438 were tallied; 99 were last noted at KR 4/7 (MH, RH). One **Surf Scoter** was identified amid the hundreds of ducks present on 3/26 (MH, RH) at KR. Three **Long-tailed Ducks** on 3/23 (MH, RH) at KR increased to 168 on 3/26 (MH, RH); 3 still lingered at KR on 4/7 (MH, RH). First **Bufflehead** was observed at Cadogan 3/2 (KSJ); the count on 3/9 (DV, JV)

along the AR between RT and KT was 76. KR yielded 211 on 3/26 (MH, RH) while last Buffleheads were 24 sighted 4/7 (MH, RH) at KR. Two to 3 **Common Goldeneyes** were found at RT between 3/1 (MH, RH) and 3/8 (DD, DDa, MH, RH, MMc). **Hooded Mergansers** arrived at RT 3/4 (EC, RG, SG, KJ, DL, GW); 8 appeared at KPP 3/13 (MH, RH) while 7 were at KR 3/15 (SG); last reported were 8 at KR 3/26 (MH, RH). Early on 3/9 (DV, JV) a raft of about 200 **Common Mergansers** congregated at RT; best count at KR was 22 on 3/23 (MH, RH), the season's final sighting. Six **Red-breasted Mergansers** on the AR between RT and Manorville on 3/1 (MH, RH) had increased to 35 by 3/14 (PH, JS, SS); high KR count was 56 on 3/30 (MH, RH) while last were 53 counted on 4/7 (MH, RH). First **Ruddy Ducks** were 4 at RT and 26 at KT on 3/9 (DV, JV); the only others recorded were 13 at KR 3/26 (MH, RH).

As many as 4 different **Bald Eagles** were spotted at RT between 3/4 (RG, SG, GW) and 3/10 (SK). A nest along the AR contained eggs on 4/8 (KC). Another pair attempted to nest along the AR, but the female was found dead, possibly shot, in the nest on 4/30 (*fide* Margaret Buckwalter). **Sharp-shinned Hawks** and **Cooper's Hawks** were each noted at 3 locations in the county. Single **Red-shouldered Hawks** were found at RT 3/4 (EC, KJ, DL) and near KT 3/9 (CG). The earliest **American Coot** was noted 3/8 (DD, DDa, MH, RH) at RT, but the highest count was only 3 on 3/10 (SK) and 3/14 (PH, JS, SS).

Highlight of the shorebird migration was the appearance of 2 **Black-bellied Plovers** at Crooked Creek 5/10 (JV, JVa). Killdeer returned 3/8, both at Crooked Creek (JV, JVa) and at RT (PL, SL). A **Greater Yellowlegs** at KPP 4/2 (MH, RH) and a **Solitary Sandpiper** on a settling pond near WB 4/30 (MH, RH) were the lone reports for these species. A **Spotted Sandpiper** was at KR 5/22 (SG).

Four **Bonaparte's Gulls** put in their appearance at KR 3/23 (MH, RH); 37 was the high tally there 3/26 (MH, RH); last were 12 at KR 4/7 (MH, RH). Best **Ring-billed Gull** count of 144 occurred at RT 3/4 (JV, JVa). Six **Herring Gulls** were at RT 3/1 (MH, RH); 4 were logged at Clinton 3/14 (PH, JS, SS). **Chimney Swifts** were first noted at KT 4/28 (JV, JVa). **Ruby-throated Hummingbird** was not reported until the NAMC 5/10 (JP, SP, DU, JV, JVa).

In this under-birded county where these are certainly not "dates of return," a trip to KR 5/22 (SG) added the following species to the county's year list: **Eastern Wood-Pewee**; **Acadian, Alder, Willow, Great Crested Flycatchers**; and **Eastern Kingbird**. **Eastern Phoebe** returned to KR by 3/23 (MH, RH). First **Red-eyed Vireo** was listed 5/9 (SG) at KR. At least 2 **Purple Martins** were feeding 4/7 (MH, RH) over KR, only a short distance from their breeding colony. First **Tree Swallows** were 9 at RT 3/29 (JV, JVa). April 30 (MH, RH) yielded 2 **N. Rough-winged Swallows** at each of the following locations: MG, WB, and ELD. A **Cliff Swallow** at KR 5/22 (SG) was the lone report. Four **Barn Swallows** had returned to North Buffalo Twp. by 4/27 (JV, JVa). **House Wren** finally surfaced in a Manor Twp. yard 5/6 (JV, JVa). A **Ruby-crowned Kinglet** near ELD 3/27 (RH) was the lone report. First **Blue-gray Gnatcatcher** was seen near WB 4/30 (MH, RH). A **Swinson's Thrush** and a **Hermit Thrush** at KR 5/22 (SG) were the only records this season. **Wood Thrush** was first seen at KR 5/9 (SG).

Few warblers were reported. One **Blue-winged Warbler** was found at KR 5/9 (SG). A **Tennessee Warbler** was heard near ELD 5/15 (MH, RH). **Yellow Warbler** was first listed 4/30 (MH, RH) with counts of 5 southwest of Sheloceta, 3 near MG, and 1 at WB. One **Chestnut-sided Warbler**, 1 **Black-throated Green Warbler**, and 1 **Pine Warbler** were at KR 5/22 (SG). A **Prairie Warbler** had returned to KR by 5/9 (SG), but by 5/22 (SG) 4 were present. Other species reported only on

5/22 (SG) at KR included 1 **Blackpoll Warbler** and 4 **American Redstarts**. An **Ovenbird** had arrived at WB by 4/30 (MH, RH). KR yielded 10 **Common Yellowthroats** on 5/9 (SG) and 36 on 5/22 (SG), when 4 **Hooded Warblers** were also tallied. One **Yellow-breasted Chat** was found at KR 5/9 (SG), but 4 were counted 5/22 (SG).

KR yielded 8 **Scarlet Tanagers** on 5/22 (SG). An **Eastern Towhee** at MG 4/2 (MH, RH) was first. Ten **American Tree Sparrows** on 3/7 (MH, RH) near Elders Ridge were the last recorded while the first **Chipping Sparrows** were 5 at MG and 1 near WB 4/30 (MH, RH). A **Field Sparrow**, the season's first, was singing near O'Donnell 3/27 (RH). MG yielded the first **Swamp Sparrow** 4/30 (MH, RH). **White-throated Sparrow** lingered till 5/10 (LU) in Rural Valley. A **White-crowned Sparrow** was found in Ford City 3/8 (DV); the next sighting occurred 5/9 (SG) at KR. Last **Dark-eyed Juncos** were 2 at MG 4/2 (MH, RH). The NAMC 5/10 (JP, SP, JV, JVa) yielded the first reports of **Rose-breasted Grosbeak** and **Indigo Bunting**. Six **Red-winged Blackbirds** returned to Manor Twp. 3/9 (JV, JVa). First **Eastern Meadowlark** was observed near Pyrra 4/2 (MH, RH) while first **Common Grackle** was near ELD 3/8 (MH, RH). **Brown-headed Cowbird** was listed first at MG 4/2 (MH, RH). A **Baltimore Oriole** returned to Ford City 5/6 (JV, JVa); 7 was a good oriole count at KR 5/22 (SG).

Observers: **Margaret & Roger Higbee, 3119 Creekside Road, Indiana 15701, (724) 354-3493, bcoriole@twd.net**, Ellie Cochran, Kurt Crosbie, Dave Darney, Debbie Yovanovich-Darney (DDa), Patience Fisher, Randi Gerrish, Sarah Gerrish, Steve Graff, Carol Guba, Paul Hess, Margaret Higbee, Roger Higbee, Linda Huber, Karen Jackson, Scott Kinzey, Dennis Lauffer, Pat Lynch, Sherron Lynch, Mark McConaughy, John Pulliam, Sarah Pulliam, Kate St. John, Jack Solomon, Sue Solomon, Doris Uplinger, Lorraine Uplinger, Dave Valasek, Joe Valasek, Josie Valasek (JVa), Gary West, Dan Yagusik.

### **Beaver County**

It could be said this is where it all started. **Red-necked Grebes** were seen at the junction of the Beaver and Ohio River at Riverfront Park in Rochester the last few days of February and were the first reported in the state. In early March, their numbers increased. An impressive raft of 23 were counted at that location on 3/1 (SK, MF, var. obs.).

A **Common Loon** was seen at Riverfront Park 3/2 (MV). A variety of waterfowl were present in March at Riverfront Park. **Pied-billed** and **Horned Grebes** and **American Coots** were seen early in the month (ER, MV, et al.). A **Northern Pintail** was seen 3/2 (CG, DC) and a good count of at least 17 were seen 3/11 (ER). A **Long-tailed Duck** was present 3/11 (ER).

Other waterfowl seen in March included **American Wigeon**, **Red-breasted**, **Common** and **Hooded Mergansers**, **Common Goldeneye**, **Lesser Scaup**, **Gadwall**, **American Black Duck**, **Canvasback**, and **Bufflehead**.

Observers: **Jim Barker, 250 Neville Rd., Beaver, 15009, barkers95@comcast.net**, Don Cratty, Mike Fialkovich, Candy Gonzalez, Joyce Hoffmann, Scott Kinzey, Rick Mason, Ed Richards, Dana Shaffer, Walt Shaffer, Becky Smith, Randy Stringer, Chuck Tague, Joan Tague, Mark Vass, Dave Wilton.

### **Bedford County**

Locations: Dunnings Creek Wetlands(DCW), Shawnee State Park(SSP), Allegheny Front (AF)

Note: all observations without initials were made by the compiler.

An extremely cold winter kept lakes frozen from 11/02/02 to 3/16/03. Because of inclement weather some peak waterfowl counts may have been missed. It appeared the heavy rain of April (5 inches) and May (9.2 inches) would cause similar overflow of sandpipers, but instead they came late. Seven hundred and eighty shorebirds missed May by 2 days and arrived on 6/2 at DCW. Despite the weather, highlights were **Northern Shrike**, **Willetts**, **Black-bellied Plovers**, **White-winged Scoters** and a **Long-eared Owl** plus a record breaking spring for the Allegheny Front Hawk Count.

A **Greater White-fronted X Canada Goose** hybrid was spotted at DCW on 4/2. The following are high waterfowl counts for the season: 489 **Canada Geese** at SSP on 3/15 (RG). The following were reported from DCW unless otherwise noted: 126 **Wood Duck** on 4/6, 16 **Gadwall** on 3/29, 45 **American Wigeon** on 3/9 (SSP), 26 **American Black Duck** on 3/29, 161 **Mallard** on 3/29, 28 **Blue-winged Teal** on 4/9, 11 **Northern Shoveler** on 4/9, 8 **Northern Pintail** on 3/21, 50 **Green-Winged Teal** on 4/6, 7 **Canvasback** on 3/29, 48 **Ring-necked Duck** on 4/6, 26 **Greater Scaup** on 3/21 (SSP), 24 **Lesser Scaup** on 3/16, 12 **White-winged Scoter** on 5/17 at SSP (RG), 4 **Long-tailed Ducks** on 3/29, 32 **Bufflehead** on 4/6, 6 **Common Goldeneye** on 3/29 at SSP (RG), 15 **Hooded Merganser** on 3/21 at SSP, 4 **Common Merganser** on 3/29 at SSP (RG), 88 **Red-breasted Merganser** and 54 **Ruddy Ducks** on 4/6.

On 3/7, after 8 hours of snow removal, the Allegheny Front started its spring hawk count. It was the virtual opening of the gates as **Golden Eagles** soared through on strong east winds. The first 8 days of March saw 105 **Golden Eagles**. Spring records were broken for the following 8 species: **Black Vulture**, **Turkey Vulture**, **Bald Eagle**, **Northern Harrier**, **Red-tailed Hawk**, **Red-shouldered Hawk**, **Golden Eagle** and **American Kestrel**. The following is the total count for spring (365 hr.): **Black Vulture** (9), **Turkey Vulture** (530), **Osprey** (132), **Bald Eagle** (23), **Northern Harrier** (24), **Sharp-shinned Hawk** (164), **Cooper's Hawk** (38), **Northern Goshawk** (9), **Red-shouldered Hawk** (73), **Broad-winged Hawk** (277), **Red-tailed Hawk** (445), **Rough-legged Hawk** (3), **Golden Eagle** (124), **American Kestrel** (11), **Merlin** (10), **Peregrine Falcon** (8) and 103 unidentified for a total of 1,983. The general Winter-Spring raptor report for the county was high numbers of **Red-tailed Hawks** and **Kestrels** with **Rough-legged Hawks** spotty and **Northern Harriers** uncommon with the exception of DCW where harriers were regular from March to 5/5.

All of the following with the exception of willets were reported from DCW. The following are high numbers: 6 **Sora** on 5/8, 1 **Common Moorhen** on 4/30, 11 **Black-bellied Plovers** on 5/10 (a sporadic spring sighting), 1 **Semipalmated Plover** on 5/14, 8 **Greater Yellowlegs** on 5/17, 3 **Lesser Yellowlegs** on 4/9, 2 **Solitary Sandpipers** on 5/4, 5 **Willetts** on 5/5 at SSP, a probable county record (KB), 5 **Spotted Sandpipers** on 5/10, 6 **Semipalmated Sandpipers** on 5/10, 1 **Least Sandpiper** on 5/26, 2 **Dunlin** on 5/24, 90 **Wilson's Snipe** on 4/6 and 16 **American Woodcock** on 3/16. The first terns to arrive were 4 **Caspian Terns** on 4/22, 3 **Common Terns** on 4/22 and 8 **Forster's Terns** on 5/12 at DCW.

A **Long-eared Owl** was heard and seen on 3/16 near a stand of mature spruce at DCW. On 5/10 a **Northern Saw-whet Owl** responded to a tape at SSP (RG). Eight **Common Nighthawks** were seen mid-day snatching Mayflies off Dunnings Creek(CH, JF). A **Northern Shrike** was spotted in a Hawthorn thicket at DCW on 3/14 (CH, JF). Twenty one roadside **American Pipits** were seen on 3/21 (RG) at SSP.

The following 27 Warblers were reported from SSP area and the Allegheny Front on 5/10 and 5/11: 5 **Golden-winged Warblers**, 5 **Tennessee Warblers**, 1 **Nashville Warbler**, 4 **Northern Parula Warblers**, 25 **Yellow Warblers**, 4 **Chestnut-sided Warblers**, 3 **Magnolia Warblers**, 3 **Black-throated Blue Warblers**, 9 **Yellow-rumped Warblers**, 6 **Black-throated Green Warblers**, 2 **Blackburnian Warblers**, 3 **Pine Warblers**, 1 **Prairie Warbler**, 3 **Palm Warblers**, 1 **Cerulean Warbler**, 13 **Black-and-white Warblers**, 19 **American Redstart**, 5 **Worm-eating Warblers**, 20 **Ovenbirds**, 1 **Northern Waterthrush**, 1 **Louisiana Waterthrush**, 1 **Kentucky Warbler**, 15 **Common Yellowthroats**, 1 **Hooded Warbler**, 1 **Wilson's Warbler**, 2 **Canada Warblers**, 1 **Yellow-breasted Chat** (DB, TB, TC, TD, SD, PG, RG, CH, RK, RM, LT).

Observers: **Tom Dick**, **Hiddens Acre Farm**, **123 Hummer Lane**, **Cairnbrook 15924**, **wetmeadow@aol.com**, **thomasd102@aol.com**, Allegheny Plateau Audubon, Tony Barley, Debbie Bodenschatz, Tom Bodenschatz, Ken Byerly, Teresa Cessna, Sally Dick, Jerry Fetter, Gene and Nancy Flament, Pete Galardy, Ross Galardy, Kevin Georg, Bob Gorsuch, Connie Hunt, Bill Judd, Ron Kidd, Michael and Laura Jackson, Rosemary McGlynn, Mark McConaughy, Chi and Marion Mincone.

### *Berks County*

Locations: Blue Marsh L. (BML), Glen Morgan L. IBA (GML), Hawk Mt. Sanctuary (HMS), Lake Ontelaunee (LO), State Game Land #110, Kittatiny Ridge (SGL).

Birders found **Red-necked Grebes** (1-3 at a time) scattered on county lakes and the Schuylkill R. 3/2-5/6 (m.obs.). An **Anhinga** was reported flying over the Schuylkill in Reading (PS). Another was reported 4/27 over N. Lookout, HMS, ascending in a thermal (KM). A pair of **Great Egrets** was seen courting, copulating and nest building on the island off the dambreast at LO 5/24-26 (RK, KK, MW, MS), the first recorded nesting attempt in Berks Co. The nest was abandoned before chicks were produced. There were 5 **Snowy Egrets** at a small pond near Hamburg 5/17 (EG, KG, MW), the first reported in 4 years.

Waterfowl moved through quickly once lakes began to open (LO did not thaw completely until 3/23). More than 80,000 **Snow Geese** passed grandly and noisily during their peak flight 3/22,23 (RK,JS). Among them were an adult **Ross' Goose** and a dark-backed, dark-breasted **Canada Goose** of a race seemingly smaller than the Richardson's type. **Tundra Swans** peaked earlier, with 127 around BML 3/13 (JS). Birders reported 21 duck spp. with no exceptional fallouts. The only scoters were 6 **White-winged** at LO 5/7 (KK, MW), where 6 **Long-tailed Ducks** were seen 3/29 (RK). A **Hooded Merganser** was on a nest in a box at Hay Cr. 4/12, where nesting occurred once before. However, the box was found to be damaged when checked in May, and the outcome of the nesting is unknown (KL). With access to the GML IBA, nesting site of several rare breeding waterbirds, severely restricted, it is difficult to keep track of the breeders there. On 5/6, 4 **Ruddy Ducks** were seen. On an evening rail trip 5/3, only a **Sora** was heard. On 5/26, a single pair of **Pied-billed Grebes** was found. Breeding status of these spp. is unknown (KL).

An adult **Mississippi Kite** was seen over Bern Twp. 4/28, being escorted out of the area by **American Crows** (JS). An immature **Mississippi Kite** was watched hunting at Peters Cr. near LO for about 15 minutes 5/17 (KK). **Bald Eagles** were reported all period, with at least one pair nesting in Berks. An

adult **Northern Goshawk** was near BML 4/4 (JS). Single **Merlins** were at Leesport 3/5 and Reading 3/9 (DK), and a few more were seen at HMS in April (DB).

A **Common Moorhen** at Peters Cr. 5/17 (KK) was the first reported since 2000. **American Coots** were scarce. Among the 14 shorebird spp. reported were 3 **Black-bellied Plovers** at a rain pool near Evansville 5/17 (MW). Two birds heard calling over Leesport on the night of 5/16 were also thought to be this sp. (DK). A **Ruddy Turnstone** in breeding plumage was at the pond on old Rt. 22 east of Shartlesville 5/24 (MW). Three **Pectoral Sandpipers** at the wetland on Milestone Rd. near Robesononia 3/13 (GB) are the earliest on record. They were among 30 **Wilson's Snipe** (JS). Rainy weather around 5/26 grounded a total of 4 **Dunlin**, 80 peep and a record high count of 237 **Short-billed Dowitchers** (many calling in flight) at various Berks Co. ponds (RK).

Single **Caspian Terns** were at LO 4/12 (MW) and GML 5/25 (KL). Two **Forster's Terns** were at LO 5/7 (MS). Three adult **Black Terns** were at LO 5/24 (RK, KK), and a bird in nonbreeding plumage was there 6/14 (RK). An **Arctic Tern**, described as a first-year bird, was seen at GML 5/24 (KK, KL, no details).

More cuckoos were detected by nocturnal flight calls than seen on the ground. On 5/10, 10 **Black-billed Cuckoos** and 20 **Yellow-billed Cuckoos** were heard over District Twp. around 11:30 p.m., and on 5/11 there were 5 **Black-billed** and 15 **Yellow billed** (RK). A **Northern Saw-whet Owl** called at HMS 4/17 (JS). The only report of **Whip-poor-will** was of a migrant at Eckville 4/28 (SW). Resident **Red-headed Woodpeckers** nested at Kaufmann Rd., Oley Twp., a traditional site (RK). Migrants were at Eckville 4/29 (TB) and at a Bern Twp. feeder for about a week after 5/22 (JS).

The only reported **Olive-sided Flycatcher** was at SGL, Stony Cr. 5/25 (TC). A **Yellow-bellied Flycatcher** was at Leesport 5/11 (DK) and another at SGL 5/13 (KG). Two **Horned Larks**, seldom found during the breeding season, were in N. Berks 5/26 (SF). Showing strong resiliency, **Bank Swallows** recolonized gravel banks at Kernsville Dam, Hamburg, where their burrows had been bulldozed last year, and where dirt bikers had severely disturbed the colony before that. There were 15-20 active burrows 5/25 (MW). According to a state trooper, the area was closed to bikers because two of them tried to sue the state after falling off their bikes (fide MW)! The only reported **Red-breasted Nuthatch** was in the Virginia Pines at SGL, Stony Cr., where they're resident (TC).

As with cuckoos, more **Gray-cheeked** and **Swainson's Thrushes** were identified by nocturnal flight calls than by sight or sound in the woods during the day (Will this become the norm as more birders tune into nocturnal flight calls? See [www.oldbird.org](http://www.oldbird.org)). The largest flight of these spp. came in foggy to rainy weather on the nights of 5/24,25, when 33 calls of **Gray-cheeked**, 400 of **Swainson's** and a probable **Bicknell's Thrush** were heard as birds flew low over Hamburg (KG). Among them were 50-100 calls of **Veery** as well as other spp. (KG). A **Bicknell's** was identified near Reading 5/18 after the observer watched it sing for a half hour, then later compared his memory of the song to recordings (KL). A **Gray-cheeked/Bicknell's** was seen at a birdbath near Leesport 5/27 (DK). A flock of 100 **American Pipits** was near Robesononia 4/4 (JS).

Of 32 warbler spp. reported, many provided eye candy to birders afield on the right rainy days. A **Northern Parula** in a Shillington yard 3/27,28 (E&RS) possibly arrived too early for its own good. The **Pine Warbler** that wintered at feeders at BML was there till 4/8 (JS). A **Prothonotary Warbler** was seen near Gibraltar 5/15 (MS). Earl Poole thought the Northern Waterthrush "...unique in its peculiarly protracted migrations,"

which describes the bird still near Leesport 6/7 (DK). **Cerulean** and **Kentucky Warblers** were reported on territory only at Hay Cr.

A wintering **Clay-colored Sparrow** lingered at a Leesport feeder 3/16-4/25 (DK). Two **Lincoln's Sparrows** were in Hamburg 5/10 (KG), and singles were in Reading and SGL 5/11 (KG,MS). Three male **Blue Grosbeaks** were at BML, where they have nested, 5/22 (JS). The only reported **Rusty Blackbird** was at BML 5/7 (JS). Few birders saw **Purple Finches**. Singles were at BML 3/19 (JS) and Leesport 4/4,23 & 5/7 (DK).

Observers: **Rudy Keller, 71 Lutz Rd., Boyertown, 19512, (610) 845-7310, rkeller@temple.edu**, David Barber, Todd Bauman, Gerry Boltz, Donald Burger, Tom Clauser, Catherine R. Elwell, Huey & Jane Evangelista, Steve Fordyce, Ellen Grim, Kerry Grim Anna Kendall, Dean Kendall, Katrina Knight, Ken Lebo, Kyle McCarty, Peter Saenger, Jeremy Scheivert, Elsie & Robert Schoenert, Joan Silagy, Matt Spence, Bill Uhrich, Matt Wlasniewski, Sue Wolfe, Doug Wood.

#### **Blair County**

No report  
No compiler

#### **Bradford County**

With a very cool and wet spring, there were noticeable differences between this year and "normal" years in the arrival dates of spring migrants, and the beginning of breeding.

Along with the rest of Pennsylvania, Bradford county was visited by **Red-necked Grebes** this spring. While the numbers of **Red-necked Grebes** in many parts of PA were much higher, we did have two observations: 3 seen on 3/21 on the Susquehanna River at Hornbrook Park (above Towanda) (RS) and 1 on 4/9 on the Susquehanna River at Echo Beach Road (near Wysox) (TG). The lower numbers of these grebes here could be tied to the low number of observers in this county.

An **American Bittern** was seen on 5/4 near Sheshequin (DA, NA). Although spring **Ospreys** are not unusual, it was unusual to see one in a tree holding a very large fish on 5/5 on Beaver Run Road (near New Albany) (TG). Unusual also in number of birds was the group of about 50 **Bonaparte's Gulls** seen on the Susquehanna River in Towanda on 3/13 (FD).

A **Red-Headed Woodpecker** was seen 5/13 at Spring Lake (JN). For the first time in this location, attracted by my new beaver pond I would imagine, a **Northern Waterthrush** was observed and heard singing from 5/22 into early June in the New Era vicinity (TG). While **Evening Grosbeaks** seem to have been very sparse or missing this winter, 10 were observed on 5/10 at a feeder at Echo Beach Road (near Wysox), and lower numbers had been seen at the same location before and after this date (AD, TD).

Observers: **Trudy Gerlach, RR2, Box 228, Wyalusing 18853, (570) 746-9270, tgswoods@epix.net**, Dick Allyn, Nan Allyn, Anna Belokur, Helen Bouse, Anita Duvall, Terry Duvall, Rich Gulyas, Frank Innes, Jane Newton, Richard Shelling, Ruth Tonachel, Ronald C. Young.

#### **Bucks County**

Locations: Blooming Glen (BLG), Bowman's Hill (BHP), Bradford Dam (BRD), Bristol (BRS), Chalfont (CHF), Churchville Res. (CVP), Delaware River (Del. R.), Durham Twp. (DUR), Haycock Twp. (HYT), Kintnersville (KNT), Lower Makefield Twp. (LMT), Nockamixon State Park (NSP), Peace

Valley Park (PVP), Penn-Warner Tract (WNT), Quakertown Swamp (QTS), Tinicum Twp. (TNT), Tullytown (TYT)

I think the key story was the weather and its impact on migration. The temperatures went from near average in March to one of the coldest Mays on record. It was the 6<sup>th</sup> coldest May on record at nearby Allentown. Although, it seemed to be raining all the time, rainfall was actually low for the period per AccuWeather & NOAA. April was the 16<sup>th</sup> driest at Allentown per NOAA. But the chronic cool, cloudy, and often damp weather conditions caused fallouts, delayed migration by holding migrants waiting for better conditions, and thus satisfied birders by providing more birds to see. In general comments were positive about overall migration. However, some species continued to be low in numbers.

The NAMC on 5/10 had a record 70 participants who yielded a record 167 species and record 48,275 individuals. The Birdathon, held 5/9 & 5/10, reported a total of 149 species and a new single team record of 139 species (DF, GD). The summary for the season included eight new early arrival dates and ten late departure records. A total of 231 species plus two more possible were reported for the period.

One to two **Red-throated Loons** could be found fairly regularly from mid-April to 5/28 at either PVP or NSP (m.obs.). The peak count of **Common Loon** was 61 4/9 at NSP (BE). The peak count reported for **Great Cormorant** was 25-30 on 3/11 on the lower Delaware River, which is normal (DF). **Red-necked Grebe** was reported from nearly every lake and all along the Del. R. The southern Del. R. produced the highest single day count of 39 on 3/11 (DF). At least 100 individual birds (m. obs.) were reported and obviously there may have been duplicate counts of the same birds. Considering the distribution throughout the county, however, there must have been an unusually high number. Not surprising this year, was a bird at NSP 5/26 that set a new late spring date (BE). **American Bittern** was reported from QTS as usual where it is a regular transient if not a breeder. A peak of 3 were there 4/28 (BE). Another was at PVP 4/25 (JH). Five times between 4/15 and 5/3, one was at newly restored managed wetlands at NSP (BE). The **Great Blue Heron** colony at QTS was stable at about 35 nests (BE), the NSP colony grew to 8 to 10 nests (BE, JF), but the WNT colony had a nesting **Great Horned Owl** which was believed to have reduced the size to less than 5 nests (DF). **Great Egret** seemed to be more commonly reported away from the usual southern locations with at least 5 reports from PVP 4/2 to 5/19 (m. obs.), 1 at BRD 4/10 and another 5/8 (RF), and 1 at NSP 4/20 (BE). More surprising were two adult **Little Blue Heron** at BRD 4/28 (RF). Again away from lower Bucks, 1 **Black-crowned Night-Heron** was at PVP 4/16 (AM) and another surprisingly stayed there 5/14 through late in the month (CC). One was in Kintnersville from 4/19 to 4/27 (BF), and 1 was seen at NSP 4/29 (BE). A possible **White Ibis** was reported from Revere 3/15 (SF) but with critical ID marks not observed. Seven **Glossy Ibis** were seen flying away from WNT 4/6 (MS). Waterfowl watching was a highlight in March as the ice began to retreat. Some of the early species staged in good numbers waiting to move on. A total of 21 duck species was reported. Two **Greater White-fronted Geese** stopped in to NSP 3/12 to 3/15 (BE) after no reports since mid-Jan. The highest count of **Snow Geese** reported was 1,000 at PVP 3/25 (AM, JMi). A "**Richardson's**" **Canada Goose** was at NSP 3/5 (BE). Seven **Tundra Swans** at NSP 3/11 (BE) and 1 at Fountainville 4/13 (AM, JMi) were the only reports. The latter set a new late spring date. Some noteworthy duck counts received follow: **Wood Duck** 26 on 3/16 at PVP (AM); **American Wigeon** 99 on 3/16 at PVP (CR); **American Black Duck** 80 on 3/19 at NSP (BE); **Mallard** 300 on 3/19 at NSP (BE); **Northern**

**Pintail** 250 on 3/13 at PVP (AM); **Green-winged Teal** 57 on 3/16 at PVP (AM), **Canvasback** 7 on 3/9 at PVP (AM); **Ring-necked Duck** 150 on 3/11 at WNT (DF); **Hooded Merganser** 31 on 3/16 at Pine Run Dam (CR); **Common Merganser** 1,000 on 3/21 at NSP (BE); **Ruddy Duck** 34 3/29 to 4/2 at PVP (AM). Three **Long-tailed Ducks** at TYT 3/2 set a new early arrival date and was a peak count as well (MS), but was matched by 3 at NSP 4/2 (BE). One was at New Hope 3/8 (BH), and 2 were at NSP 4/19 (BE,CR). A new late spring date for **Hooded Merganser** was set on 5/25 at PVP (KK). Two **White-winged Scoters** were at WNT 3/11 (DF) and 6 stopped in at NSP 3/27 (BE). Most other ducks had peak reports in the single digits or low teens.

A **Northern Goshawk** in DUR on 4/9 was the only report (BF). A **Rough-legged Hawk** at PVP 3/1 passed in review for the Sat. morning bird walk to provide our only report (AM). The **Merlin** that returns to perch on the same pole each winter in TNT was last seen 4/10 (DA). One was in KNT 4/28 to 4/30 (BF), and 1 set a new late spring date 5/25 at NSP (BE). **Peregrine Falcon** again nested successfully on the PA Turnpike Bridge and fledged 3 young with 1 having a deformed bill (MS, LR). No **Ruffed Grouse** were reported again. A **Common Moorhen**, a rare find in recent years was at SGL#56 in TNT 5/10 to 5/12 (DF).

Shorebirds may have found many muddy fields to drop into but the lack of mudflats at the usual birding locations reduced the numbers seen this year. Still 16 species were reported by the end of May with some interesting spring high counts. Last year brought the first reports of **Black-bellied** and **Golden Plovers** in spring. This year brought the second spring reports with 1 each of these species reported at WNT 5/26 (DF). Before the water got too high, some peak counts were made as follows: **Semipalmated Plover** 23 at BRD 5/25 (DF); **Greater & Lesser Yellowlegs** 10 each at WNT 4/15 (DF); **Least Sandpiper** 61 at BRD 5/22 (JMi, AM); **Dunlin** 16 at BRD 5/25 (DF); **Short-billed Dowitcher** 21 at WNT 5/26 (DF); and **Wilson's Snipe** 21 at Pine Run 4/5 (CR). Unprecedented, considering there had been only seven previous reports, **Red-necked Phalarope** was found three times: 1 on 5/9 at WNT (DF), 2 at CVP 5/17 (BL, HD), and 1 at PVP 5/28 (MHo, CC).

Gulls of course are a major element of our birding experience due to the landfill at TYT, the Del. R., and many man made lakes. But 30,000 **Laughing Gulls** at WNT on 5/10 seems incredible (NAMC)! Our second record for **Little Gull** was recorded 4/10 and 4/11 at NSP (BE). It was in near full alternate plumage. A **Bonaparte's Gull** 5/26 at Morrisville set a new late spring date (DF). A peak count of 200 at WNT 4/26 (DF) was certainly noteworthy. A **Thayer's Gull** at TYT 3/29 again left the observer pondering the "fundamental unresolved taxonomic question concerning Iceland and Thayer's" separation (MS). **Iceland Gull** (5/9) and **Glaucous Gull** (5/10) at WNT seem to be now regular into May (DF). One wonders if Birdathons and the like were held later if they would still be present and possibly an individual or two stays all summer. **Lesser Black-backed Gulls** are widespread in the county with a peak report on 4/10 of 72 at NSP and 26 at nearby Lake Towhee Park (BE). A coordinated count from PVP, TYT, NSP, CVP, Core Creek Park, and CHF on 3/29 yielded a "low" 120 (AM, MS, BE, ABi). An earlier count undoubtedly would have produced higher numbers. A possible adult **Glaucous-winged Gull** at TYT 3/1, which would be the most rare find of the year, left the observer bemoaning the lack of a camera (MS)! Five species of terns were reported, but all five in a single day 5/26 is unprecedented. Thanks to a storm, DF found two **Caspian Terns** and a **Black Tern** at WNT, a **Forster's Tern** and **Common Tern** at Mud Island, and three **Common Terns** at Morrisville. The **Arctic Tern** at WNT made number 5 and was

only the second reported in the county and the first fully documented. The 5/26 date was also a new late spring date for **Common** and **Forster's Terns**. Only 1 or 2 other reports for the regular terns were received. Always of interest, **Black Tern** was also at NSP 5/9 & 5/10, and at PVP 5/29 (RO, PO).

**Black-billed Cuckoo** was noted for being more common and a record 10 on the NAMC proved this. An above average 7 **Yellow-billed Cuckoos** were reported on the NAMC. Tent Caterpillars peaking at that time undoubtedly contributed. All rarely reported, **Barn Owl** was at TNT 5/10 (DF), **Barred Owl** at NSP 5/10 (BE), **Long-eared Owl** was at BLG 3/9 (CR), NSP 3/15 (BE), and 1 remained at PVP to 3/24 (AM). **Northern Saw-whet Owl** stayed until 3/13 at PVP (AM). A late nest of **Great Horned Owl** fledged 1 young about 5/19 (AM, JMi) and **Screech Owl** also nested at PVP (BL). **Common Nighthawk** lingered through the end of the period in larger numbers than usual due to the chilly, wet weather. The **Chuck-wills-widow** at Bristol did not return this year. Weather conditions undoubtedly also were a factor in producing 2 **Whip-poor-will** reports, 1 at PVP seen sitting in a tree at close range 5/19 (TE), and 1 spotlighted in a road in E. Rockhill Twp. 5/23 (BE). There have only been 3 or 4 other reports in the last 15 years! The only known pair of **Red-headed Woodpecker** returned 4/29 to HYT (BE). **Yellow-bellied Flycatcher** considered rare here was grounded 5/17 and 5/18 with an unusual 3 at PVP (CC,AM) and 1 at BLG (CR). Reports of **Alder Flycatcher**, also rare here, are always dubious but 1 male and a probable female clearly were singing the appropriate song and call notes repeatedly at PVP 5/24 (CR). They also responded to a tape making the ID unquestionable. **Willow Flycatcher** at NSP 4/30 (BE) was our earliest ever.

Comments were received that **Yellow-throated Vireo** seemed more common this year as a breeder (CR) and this observer agrees. Rarely seen here in spring, a **Philadelphia Vireo** was in CHF 5/11 & 5/13 (RF). A **Common Raven** at NSP 5/7 (BE) was the second year in a row for this accidental species. A nice count of 250 **Horned Larks** was still in Hilltown Twp. 3/1 (AM). BLG had 92 3/15 and the last report was on 4/20 (CR). A **Barn Swallow** arrived 3/27 at NSP (BE) to set a new early arrival date. My guess is it regretted this distinction. A well-seen and heard **Hermit Thrush** at PVP 5/27 was a new late date (AM).

The chronically cool, cloudy, and rainy weather resulted in a more normal migration schedule in general by historical standards and warblers were no exception. Supporting this was the fact that a **Yellow Warbler** in KNT 4/15 (BF) set the only new early arrival date for this group and there were no new late departure dates. Generally, the numbers of warblers observed pleased observers based on comments received. This was probably due to the previously discussed weather related fallouts and extended grounding at the peak of migration rather than population increases. The numbers decreased rapidly when the weather cleared on 5/20 for a couple of days. Exception to the good numbers was reported for a few species, however. Only 3 **Tennessee Warblers** were reported, 1 on 5/7 at NSP (BE), 1 at BHP 5/10 (DF), and 1 at Lumberville 5/10 (WM, MR). I remember when the piercing calls of this species were everywhere on a good day. **Cape May Warbler** continues to be scarce with 1 at PVP 5/17 & 5/18 (CR, AM), and 1 at NSP 5/23 (BE). **Yellow-throated Warbler** may be decreasing along the Del. R. with only 1 at the Virginia Forrest Area 5/4 (DF) and 1 at DUR 5/10 (HR). Similarly, **Cerulean Warbler** reports were 1 at TNT (DA) and 2 at BHP (GG), both 5/10, and a pair at Solebury Twp. possibly nesting (GG). One was at NSP 5/28 (BE). A **Prothonotary Warbler** was at WNT 5/10 & 5/26 (DF) for the only report. A **Kentucky Warbler** at NSP 5/10 (BE), 2 in HYT 5/31 (CR), and 1 at BHP (GG) were the only reports.

**Mourning Warbler** was at CHF (RF) and BHP (GG, JB) on 5/14, and 2 were near Newtown 5/15 (MH). The only **Hooded Warbler** reports were 2 or 3 at BHP starting 5/2 (AM, JM) and 1 found near Newtown 5/10 (MH). A **Yellow-breasted Chat** at NSP 5/20 (DF) was the only report!

A male **Summer Tanager**, considered accidental here, was near BHP 5/13 (CC, ER). **Scarlet Tanager** was grounded in "flocks" with 15 reported at once at PVP in mid-May and at least 12 at Silver Lake 5/17 (DF). **Vesper Sparrow** was reported from BLG 4/3 & 4/30 (CR) and at NSP 4/16 (BE). Only 1 **Grasshopper Sparrow** was reported at TNT starting 5/20. The **Lincoln's Sparrow** that wintered at PVP was last reported 3/8 (AM). The next on 4/9 was probably a different bird (CC). **White-throated Sparrow** lingered well into May in double-digit numbers with the last at PVP 5/22 (AM). A late **Dark-eyed Junco** was in Levittown 5/12 (PR). A **Blue Grosbeak** was reported at WNT 5/10 (DF), at NSP 5/12 (AL), and in TNT 5/18 (CC). The **Painted Bunting** reported during the winter in LMT was again reported in late March as having been at a feeder from 2/16 to 3/16. However it returned about 2 weeks later and stayed to 4/22. The observers then waited until 5/9 to report it as they continued to desire complete privacy (FC, MC) much to the dismay of county listers. A new early arrival date by a day was received for **Rusty Blackbird** at PVP (KK). One **Purple Finch** 4/4 at BHP (PT), 1 on 5/2 in TNT (DF), 1 on 5/10 at SGL# 56 in TNT (JG), and 3 more 5/10 (HK) were surprising after nearly no winter reports.

Exotics: Two **Egyptian Geese** were at PVP 3/1 (DZ, AM). As I feared due to the persistent reports of this species, a successful breeding with 6 chicks was reported just east of NSP (BE). A **Whooper Swan** in Bedminster Twp. caused some excitement until a second showed up in late May. Both were traced to a nearby owner who has let them breed and escape (RL,CCo). We will probably be seeing more!!

**OBSERVERS: August Mirabella, 1443 Wheaton Lane, North Wales 19454, (215) 368-0594, augustmirabella@aol.com, Al & Nancy Bilheimer, Henry "Ish" D'Alessandro, Ian Baldock, Brett Belli, Adrian Binns (ABi), Alan Brady (ABr), Jean Burch, Frank Burns, Forrest & Mary Coburn, Sally Conyne, Curt Cowgill (CCo), Chuck Crunkleton, Gerry Dewaghe, M. & R. Dillon, Paul Driver, Bill Etter, Ted Evans, Devich Farbotnik, Steve Farbotnik, Jen Fetter, Doug Filler (DFi), Ron French, Don Freiday (DFr), Bob Friedermann, Gene Gladston, Bill Graham, Jim Greenwood, Mary Halderman, Ray Hendrick, Bill Hoehne, George Hoffman, Mike Homel (MHo), Jim Hughes, Ken Kitson, Holly Knott, Ron LaRue, Ann Lessel, Butch Lishman, Mike Lyman, Don McClintock, Joe Majdan, Wendy Margolis, Rick Mellon, Neil Mercando (NMe), Bob Mercer, Judy Mirabella (JM), N. Amer. Migration Count (NAMC), Rett Oren, Priscilla Oren, JoAnn Raine, Patricia Rossi, Linda Rowan, Cameron Rutt, Elaine Ryan, Hart Rufe, Margie Rutbell, Bob Shaffer, Matt Sharp, Paul Teese, Lesley Weissman-Cook, Nick Zahn, Dave Zamos, many observers (m. obs.).**

### **Butler County**

Locations: Butler City (BC), Butler Township (BT), Center Township (CT), Evans City (EC), Jennings Nature Center (JNC), Lake Arthur (LA), Moraine State Park (MSP), Slippery Rock Borough (SRB), Slippery Rock Creek (SRC), Slippery Rock Township (SRT), Glades (SGL 95), Wolf Creek (WC)

The spring 2003 quarter was unusually wet and far below average in minimum and maximum temperatures caused by a shifting south of the upper atmospheric jet streams. This

meteorological phenomenon formed a tremendously strong and stationary trough between the Gulf of Mexico and the Great Lakes in the lower atmosphere, causing continuous gulf precipitation to move northeast around this gigantic low-pressure mass in a counter-clockwise circle. The result was a series of conveyor-belt style mini-low fronts spinning off every other day or so throughout the quarter, causing an excessive amount of precipitation. Officially, the drought of 2001-2002 ended in April. March came in like a lamb, however, with a few days of relatively warm temperatures coaxing some of the usually early avian species like **Killdeer, American Woodcock, American Robin, Common Grackle, Brown-headed Cowbird** and **Red-winged Blackbird** to appear. Waterbirds, on the other hand, had to wait unusually long until true spring thaw occurred. Lake Arthur didn't start to melt until 3/16 and was still 90% frozen on 3/21. Again, a respite of a few warm days completely cleared the lake of ice on 3/28. Cool (15 degrees F below average temperatures) and wet (10+ in. of rain in May) conditions continued through April and May, delaying biological spring considerably. The April 14-17 period was the only four consecutive days of sunshine in the entire quarter. There were, however, three positive field results of such a prolonged cool, cloudy and wet weather pattern: a spectacular show of beautiful wildflowers peaking in mid- to late May; an unusual lack of tree foliage on the annual NAMC day of May 10, allowing unobstructed views of those elusive migrating spring warblers in their spectacular breeding plumages; and forcing farmers to delay mowing their hay fields. This latter fact has helped all grassland species tremendously by allowing the complete reproduction cycle to occur unabated. Unfortunately, the dominating super low trough never permitted northwestern cold fronts to force avian "fall-outs" experienced on previous NAMC dates. In summary, spring migration was overall late with many species stretched out or represented on the landscape for weeks at a time instead of clustered around northwestern cold fronts, piling up in numbers, then pushing north en masse.

First reports of the spring season at LA included 21 **Common Loons** 3/23 (3RBC), a single **Pied-billed Grebe** 3/17 (DY), 2 **Horned Grebes** 3/21 (DD, DY) and 3 **Red-necked Grebes** 3/23 (3RBC). Highest counts were 22 **Common Loons** 4/4 followed by 3 on 4/25 and 2 loons still present there 5/28 (DD, DY); 11 **Horned Grebes** 3/23 (3RBC) and 4 **Red-necked Grebes** 4/13 (DD, DY) also were the last. The **Double-crested Cormorant** continues to increase in numbers on LA with 5 birds on 4/4 the first of the season, then 140 on 4/7, peaking with 158 on 5/10 and 10 still there 5/31 (GW). The 2 **Green Herons** 5/1 in EC (CT), another 5/10 at LA (CT, GW) and 1 on 5/15 there (DY) were the only reports. The 2 **Turkey Vultures** 3/16 at EC (CT) were the earliest arrivals but as many as 14 on 3/17 in MSP (DY) were still there 5/10 (CT, GW) and built up to 18 by the end of May. Where do these birds nest?

The late departure of ice forced **Tundra Swans** to fly over our county this spring with only 2 **Mute Swans** (3RBC) and 7 **Tundra Swans** 3/23 (DD, DY) reported all quarter on LA. Most **Tundra Swans** flew over SRB-SRT at night and were only heard. Dabbling duck species were late and scarce in numbers due to the ice and rushed through the county once here. The 2 **American Black Ducks** and 2 **Mallards** 3/5 on LA (DD) started things, then 2 **Wood Ducks** 3/17 (DY), 3 **Gadwall** and 10 **Northern Shovelers** 4/4 and 8 **Blue-winged Teal** 4/12 (DD, DY) followed and a pair of **Gadwall** and a pair of **American Wigeon** 5/10 (GW) ended the season. Diving duck species started appearing on LA as soon as sufficient open water appeared 3/16 with 9 **Ring-necked Ducks**, 2 **Redheads**, 4 **Buffleheads**, 2 **Common Goldeneyes** and 15 **Hooded Mergansers** and by 3/21 a lone **Canvasback**, 2 **Redheads**, 240

**Ring-necked Ducks**, 12 **Greater Scaup**, 18 **Lesser Scaup**, 3 **Common Goldeneye**, 18 **Hooded Mergansers**, 7 **Common Mergansers**, 30 **Red-breasted Mergansers** and 11 **Ruddy Ducks** (DD, DY) were recorded. Peak numbers 4/12 on LA included 360 **Lesser Scaup**, 140 **Buffleheads**, 600 **Red-breasted Mergansers** and 400 **Ruddy Ducks** (3RBC). One male **Bufflehead** was still present 5/28 on LA (GW), unusually late. A single **Long-tailed Duck** 4/2 on LA (3RBC) was the most unusual waterfowl this season.

At least 5 pairs of **Osprey** returned to the MSP area this year with 1 bird as early as 3/21 (DD, DY). The tree holding the old nest of the **Bald Eagle** pair in MSP fell this winter and the pair built a new nest elsewhere. **Ospreys** and **Bald Eagles** are certainly more numerous than ever as attested by the many telephone calls and e-mails that I receive. The **Broad-winged Hawk** is doing well with the first 2 birds 4/19 at MSP (DY) and surprisingly holding on for dear life in SRB- SRT were housing development is literally exploding, and natural habitats are now on the threatened list. The species was reported in April in JNC, MSP, SRB, SRT and WC. Unusual was the recording of **Ring-necked Pheasant**, **Ruffed Grouse** (drumming), **Wild Turkey** and **Northern Bobwhite** 5/10 in MSP (CT, OW). **American Coots** were scarce on LA this quarter with only 4 on 3/16 being the earliest, and 10 on 5/12 (DD, DY), the last reported.

High water curtailed shore bird observations but a pleasant surprise was a lone **Willet** 5/5 at LA (DY). The **Upland Sandpiper** returned to two sites in the northern part of the county in late April, but a favorite breeding site of the **American Woodcock** in SRB was destroyed this spring by a housing development. The 1 **American Woodcock** 3/30 in CT (DY) was the first report. A single **Bonaparte's Gull** 3/23 at LA{3RBC} was the first, the 40 **Bonaparte's Gulls** 3/30 (DD, DY) were the most and 5 on 5/10 (CT, GW) the last reported. The 30 **Ring-billed Gulls**, 2 **Herring Gulls** 3/16 at LA were firsts (DD, DY) as were the 2 **Caspian Terns** 5/5 and 6 **Forster's Terns** 4/25 (DY) there. The first **Black-billed Cuckoo** report was on 5/8 in EC (CT) and 2 **Yellow-billed Cuckoos** 5/16 in MSP (DY) were late. Apparently cuckoos were delayed by feasting upon bagworm infestations farther south. A single **Common Nighthawk** 5/22 in BT (DY) and another lone individual 5/28 in EC (CT) were the only reports. At least 3 Chimney Swifts arrived first 4/24 at EC (CT); the first male **Ruby-throated Hummingbird** returned 5/1 to SRB (JW) and 2 **Belted Kingfishers** 3/21 at LA (DD, DY) were the first of the year.

This year SRB is the site for all 7 species of woodpeckers attempting to breed and the local colony of **Yellow-bellied Sapsuckers** has increased to 4 pairs. Empidonax flycatchers were earlier than usual with 1 **Least Flycatcher** 4/30 and 1 **Acadian Flycatcher** 5/1 in SRB (GW) and 3 **Eastern Wood-Pewees**, 3 **Acadian**, 2 **Alder** and 5 **Willow Flycatchers** recorded 5/10 in MSP (CT, GW). The first **Eastern Phoebe** appeared 3/16 in MSP (DD, DY). The single **Great Crested Flycatcher** 5/8 at EC (CT) was the first reported followed by 2 on 5/10 in MSP (CT, GW). The first 4 **Eastern Kingbirds** 5/8 in MSP (DY) increased to 16 birds there 5/10 (CT, GW). **Vireos** were on schedule with 1 **Yellow-throated** 4/20 at EC (CT) being the earliest report, followed by a good list of 1 **White-eyed**, 2 **Yellow-throated**, 3 **Blue-headed**, 2 **Warbling**, 3 **Red-eyed** 5/2 in MSP (DD, DY) and reaching a peak 5/10 there with 9 **White-eyed**, 8 **Yellow-throated**, 5 **Blue-headed**, 12 **Warbling** and 21 **Red-eyed Vireos** (CT, GW). There was not one record of **Philadelphia Vireo** for the quarter. The **Horned Lark** still occurs in SRT and 1 bird appeared 3/24 at EC (CT). **Purple Martins** were on schedule with 149 on 5/10 in MSP (CT, GW). A lone **Tree Swallow** 3/21 over LA increased to 50 on 3/30, then 1,000 on 4/4 and over 4,000

on 4/7 (DD, DY). A single **Northern Rough-winged Swallow** 4/19 over LA was the first record but the 5 **Bank Swallows** 5/5 were late and scarce until mid-May with just 2 birds 5/10 (CT, GW) but 129 on 5/15 (DY). The **Cliff Swallow** seems to be having a good year with 20 on 4/20 over LA (DD, DY) the first and hundreds 5/10 there (CT, GW). The 2 **Barn Swallows** 4/4 over LA (DD, DY) were the first recorded. There was no report of **Red-breasted Nuthatch** the entire quarter. The pair that bred successfully in SRB from 1999 through 2002 did not return this year. The first report of **Brown Creeper** was 3/28 at JNC (DD, DY). The first **House Wren** 4/19 in MSP (DY) and the first **Winter Wren** on 4/4 was along WC (DD, DY) followed by another 4/23 in EC (CT). No **Sedge** or **Marsh Wrens** were reported for the quarter. **Golden-crowned Kinglets** were on schedule with 4 on 4/4 in MSP and 5 along WC the same day (DD, DY). The **Ruby-crowned Kinglet**, on the other hand, was relatively scarce and late until 4 appeared 4/29 at JNC (DY) but became common and widespread until the end of the quarter. The 3 **Blue-gray Gnatcatchers** 4/12 along WC (DD, DY) were the first reported, followed by 4 on 4/20 (DD, DY) and 9 birds observed 5/10 in MSP (CT, GW).

The single **Veery** 4/30 in SRB was early (GW) but became common by 5/10 in MSP with 15 individuals recorded (CT, GW) and found singing in several new county sites thereafter. A single **Swainson's Thrush** 5/10 in MSP was an early first with **Gray-cheeked** and **Swainson's Thrushes** flying over SRB at night between 5/21-26. The lone **Hermit Thrush** 4/20 in EC (CT) was the first reported followed by 2 individuals on 4/25 in JNC and 2 on 4/30 in SRB (GW). A strong nocturnal movement of **Wood Thrushes** occurred 4/29 over SRB with 1 bird seen the same day in EC (CT) and 5 birds 5/2 in MSP (DD, DY) led to a record 38 singing individuals 5/10 in MSP (CT, GW). The 2 **Northern Mockingbirds** 3/15 in EC (CT) was the only report for the quarter. A single **Brown Thrasher** 4/11 at EC (CT) was the earliest report followed by 1 bird 4/13 and 2 birds 4/19 in MSP (DY). On the other hand, 2 **American Pipits** 5/27 in EC (CT) were unusually late and the only report for the quarter.

Transient warblers arrived in late April and continued to be observed until the end of May. The rarest record was a male first year **Brewster's Warbler** first seen in EC (CT) on 5/14 and last observed 5/23. The bird sang exactly like a **Blue-winged Warbler** and was recorded on tape and well described. The NAMC 5/10 in MSP illustrates the peak of warbler migration with 30 species recorded (CT, GW): 31 **Blue-winged**, 1 male **Golden-winged**, 18 **Tennessee**, 2 (pair) **Orange-crowned**, 97 **Nashville**, 3 **Northern Parula**, 88 **Yellow**, 25 **Chestnut-sided**, 3 **Magnolia**, 3 **Cape May**, 2 **Black-throated Blue**, 109 **Yellow-rumped**, 5 **Black-throated Green**, 5 **Blackburnian**, 2 **Yellow-throated**, 3 **Prairie**, 2 **Palm**, 2 **Bay-breasted**, 3 **Blackpoll**, 10 **Cerulean**, 4 **Black-and-white**, 19 **American Redstart**, 40 **Ovenbird**, 5 **Northern Waterthrush**, 7 **Louisiana Waterthrush**, 5 **Kentucky**, 41 **Common Yellowthroat**, 15 **Hooded**, 2 **Wilson's Warblers** and 4 **Yellow-breasted Chat**. Some species not recorded 5/10 were present at other times during the quarter, including 1 **Pine Warbler** 4/19 and 1 **Canada Warbler** 5/15 in MSP (DY). A single **Mourning Warbler** 5/22 appeared in EC (CT) and another 5/31 in SRB (GW). There were no reports of **Prothonotary**, **Worm-eating** or **Connecticut Warblers** for the quarter.

The first male **Scarlet Tanager** was seen 4/29 in SRB (GW). The first report of 2 **Eastern Towhees** occurred 3/26 in MSP (DD). Apparently the **American Tree Sparrow** and **Dark-eyed Junco** vacated the county before 3/1 since there were no reports of either species this spring. The first **Chipping Sparrow** was 4/2 in EC, 1 **Field Sparrow** there (CT) and 2 **Savannah Sparrows** 4/16 in BT and CT (DY). The **Vesper Sparrow** is rapidly disappearing from the county with

only two known sites left. Both **Grasshopper** and **Henslow's Sparrows** arrived early 4/28 in SRT (GW). There were no reports of **Fox Sparrow** or **Lincoln's Sparrow** this quarter. A high number of 69 singing male **Swamp Sparrows** 5/10 in MSP (CT, GW) was unexpected. The 2 **White-throated** and 2 **White-crowned Sparrows** 3/7 in EC (CT) were the first for the quarter and the 7 **White-throated** and 3 **White-crowned Sparrows** 5/10 in MSP (CT, GW) the last reported. A male **Rose-breasted Grosbeak** 4/29 in EC (CT) and another the same day in SRB were the first of the season. At least 5 singing male **Bobolinks** appeared 4/28 in SRB. The 3 **Eastern Meadowlarks** 3/16 in BT (DY) were the first of the year. A single male **Indigo Bunting** 4/30 in SRB (GW) was the first of the year. Flocks of **Rusty Blackbirds** started with 5 birds 3/22 in EC (CT) then increased to 150 birds 4/26 in SRT (GW) before tapering off by 5/1. Three male **Orchard Orioles** 5/1 in EC (CT), a high number of 15 singing males 5/10 in MSP and the 21 purple Finches there the same day (CT, GW) were pleasant surprises. The first male **Baltimore Oriole** 4/30 in SRB (GW) was on time. Unfortunately, **crossbills**, **redpolls**, **Pine Siskins** and **Evening Grosbeaks** failed to be recorded anywhere in the county this spring quarter.

Observers: **Gene Wilhelm**, 513 Kelly Blvd., Slippery Rock 16057, (724) 794-2434, genewilhelm@aol.com, Bartramian Audubon Society, Dave Darney, Paul Hess, Three Rivers Bird Club, Clark Trauterman, Gene Wilhelm, Joanne Wilhelm and Debra Yovanovich.

### *Cambria County*

Locations: Beaverdale Sportsmen's Camp (BC), Beaverdam Run Dam (BR), Ebensburg (E), Elton (EL), Prince Gallitzin State Park (PG), St. Lawrence (SL)

Waterfowl observations started slowly at PG as it remained frozen until 3/24, causing many species to pass us by.

**Common Loon** were first seen on 4/5 (DG), as well as **Pied-billed** and **Horned Grebe**. Judy Johns sent along the only report of **Red-necked Grebe** at BR 4/7. **Double-crested Cormorant** were observed at PG and Wilmore Dam starting on 4/18. First appearance of **Great Egret** was 5/13 at PG (JS) and the last was at Cresson on 6/15 (CL, GL). Our first reported **Green Heron** was on 5/3 at PG (JS).

The Patton area provided the first **Turkey Vulture** 3/16 (DG). Because of frozen conditions on 3/9 the first **Tundra Swans** (6) were seen flying over BR, but a high count of 70 on 3/11 rested on the ice (JJ). **Wood Duck** began arriving 3/20 at PG. DG reports one nest box contained 12 eggs but when checked soon after, contained only 3 eggs. First dates for arriving waterfowl were: **Green-winged Teal** 3/22 (JJ), **Ring-necked Duck** 3/14 (RG), **Long-tailed Duck** 3/29 (DG), **Bufflehead** 3/24 (JJ), **Hooded Merganser** 3/14 (RG), **Common Merganser** 4/6 (JJ), **Red-breasted Merganser** 3/30 (JJ) and **Ruddy Duck** 5/3 (JS).

Despite the nesting platform in the marsh at PG, several **Osprey** were apparently just passing through. An outstanding hawk find was a **Northern Goshawk** circling over a field near EL 4/18 (RG). Though we can depend upon **Northern Harrier** to nest in the extensive grasslands of northern Cambria County, reports of nesting **Red-shouldered Hawks** have not been as numerous in the last few years. **Virginia Rail** and **Sora** consistently return to nest in the marsh at PG. **American Coot** returned on 4/3 to PG (DG). **Solitary Sandpiper** appeared 4/28 at PG (DG) and **Dunlin** 5/13 at PG (JS); but the highlight of the shorebird migration was the discovery of 9 **Willetts** on 5/8 at PG (JS). Photos were taken. First **American Woodcock** showed up 3/22 (DG).

Two **Bonaparte's Gulls** were at PG (DG) as well as 15 on 4/6 at BR (JJ). **Herring Gull** (a nice gull for Glandale Lake) were there on 4/5 (DG). A **Forster's Tern** (5/18) and 2 **Black Tern** (5/8) made brief visits (JS).

Ross and Peter Gallardy started their big day in downtown Johnstown (5/10) with 2 calling **Common Nighthawk**. **Chimney Swift** appeared 4/22 at PG (DG). The Gallardy's had the earliest **Ruby-throated Hummingbird** on 4/30 at EL. Again this year, **Yellow-bellied Sapsucker** appear to be nesting in the Patton area (DG). Cold, wet weather seemed to delay flycatcher arrivals. They included: **Eastern Wood-Pewee** 5/4 at Dunlo (JJ), **Acadian Flycatcher** 5/20 in the Patton area (DG), **Willow Flycatcher** 5/4 in the Patton area (DG), **Least Flycatcher** 5/10 at St. Lawrence (JS), and BC (JJ), **Eastern Phoebe** 3/24 at PG (DG), **Great-crested Flycatcher** 5/7 at Wilmore Dam (JS), and **Eastern Kingbird** 5/4 at PG (DG). Returning vireos began with **Blue-headed** 4/20 at Dunlo (JJ), **White-eyed** 5/3 at EL (RG), **Red-eyed** 5/5 in the Patton area (DG), and **Warbling** 5/19 at EL (RG). Both **Common Raven** and **Horned Lark** continued to be reported year round.

The first arrival of **Tree Swallow** was 3/29 at PG (DG), with a high count of 540 on 5/10 (JS). Other arrivals included: **Northern Rough-winged Swallow** 4/14 in the Patton area (DG), **Bank Swallow** 5/8 at PG (JS) with a high of 20 on 5/10, **Cliff Swallow** 5/8 at PG (JS) with a high of 55 on 5/10, and RG found an early **Barn Swallow** in EL on 4/3. DG mentioned finding many dead Tree Swallows in the nest boxes. RG provided the first **House Wren** 4/30, **Winter Wren** 4/18, **Ruby-crowned Kinglet** 4/18, and **Blue-gray Gnatcatcher** 4/20. DG found 3 **Veery** at the Dean State Game Lands 5/12 and RG had **Swainson's Thrush** 5/10 at EL. Also reported were 4 **Hermit Thrush** at BC 5/10 (JJ), and **Wood Thrush** 5/1 in the Patton area (DG).

Warbler data includes: a **Tennessee** at EL 5/19 (RG), a **Nashville** at Dunlo 5/6 (JJ), **Northern Parula** at EL 5/19 (RG), a **Yellow** at EL (RG), and 4 at PG 5/3 (JS), **Chestnut-sided** at PG 5/3 (JS), 3 **Magnolia** at BC 5/10 (JJ) with a high of 20 on 5/19 at EL (RS), 3 **Black-throated Blue** at EL 5/3 (RG), **Yellow-rumped** 4/22 at EL (RG), 4 **Black-throated Green** in EL 4/20 (RG), **Blackburnian** at BC 5/10 (JJ), **Prairie** at PG 5/10 (JS), **Black-and-white** 5/12 in the St. Lawrence Game Lands (DG), **American Redstart** near Wilmore Dam 5/7 (JS), **Ovenbird** 5/1 in the Patton area (DG), **Louisiana Waterthrush** 4/18 at Windber Golf Course (RG), 3 **Common Yellowthroats** near EL 5/3 (RG), **Hooded** 4/20 at Summerhill (RG), **Wilson's** 5/12 in Thomas Mills (DG), **Canada** 5/9 near Dunlo (JJ), and **Yellow-breasted Chat** 5/12 in the Dean State Game Lands (DG).

The first report of **Scarlet Tanager** was 2 at Wilmore Dam 5/7 (JS), and the first **Eastern Towhee** was at Dunlo 3/25 (JJ). The last **American Tree Sparrow** left on 4/4 near Dunlo (JJ). **Chipping Sparrow** arrived 3/28 in Dunlo and **Field Sparrow** on 4/19 at the Dunlo Strips (JJ).

Reclaimed Strip Mines and extensive grasslands provide good habitat for returning breeding sparrows. They included: **Vesper** 4/13 at the Dunlo Strips (JJ), 3 **Savannah** 5/9 in Colver (JS), **Grasshopper** 4/27 at the Dunlo Strips (JJ), and **Henslow's** 5/29 at St. Joseph (DG). The first **Fox Sparrow** was seen 3/27 near EL (RG) with a high count of 8; the last was seen 4/18 in EL (RG). Reports of departing sparrows include **White-throated** 5/21, and **White-crowned** 5/19, both in the Patton area (DG). Nesting **Dark-eyed Juncos** can be found at BC and Lilly Mountain.

RG reported the first **Rose-breasted Grosbeak** 4/29 in EL. Two **Indigo Buntings** were seen in the Patton area 5/3 (DG). JS found 14 **Bobolinks** at Colver 5/9. This report ends with returning **Baltimore Orioles** on 5/2 at PG (DG), and our thanks to all of the observers.

Observers: **Gloria Lamer, 515 Laurel Run Rd, Penn Run 15765, (724) 349-1159, Georgette Syster, 428 Laurel Run Rd, Penn Run 15765, (724) 329-6293,** Alice Beatty, Joseph Bentivegora, Susan Boland, Al Dietrich, Denver Gallardy, Peter Gallardy, Ross Gallardy, Dave Gobert, Ed Hunter, Judy Johns, Clayton Lamer, Ed Matucaan, John Salvetti.

**Note: New compilers beginning with the Fall Migration season. John Salvetti 519 E. Crawford Street, Ebensburg, PA 15931, jsalvetti70@aol.com; Dave Gobert 287 Beech Street, Patton, PA 16668, djgobert@webtv.com**

#### **Cameron County**

No report  
No compiler

#### **Carbon County**

No report  
Compiler: **David Hawk 521 Walnut Street., Leighton, 18235, (610) 377-2407, finch@ptd.net**

#### **Centre County**

Centre County remained ice bound until mid-March, but, because it receives the outflow of the State College sewage treatment plant, Centre Furnace Pond remained ice free. This pond attracted some interesting early waterbirds, including **Red-necked Grebe, American Wigeon, Canvasback, and Redhead.** Waterfowl migration was good, if compressed. The best record was a female **Harlequin Duck**, a one day wonder on Spring Creek near Bellefonte (ML) This could have been the same bird observed in Huntingdon County last period. Individual **Surf Scoters** were at Bald Eagle State Park on April 19 (JDu) and Colyer Lake on May 18 (MH). **White-winged Scoter** records included an individual on a pond near the Pleasant Gap fish hatchery on 3/5 (TS), 4 birds at Bald Eagle State Park on 4/19 (JDu), 11 at Bald Eagle State Park on 5/6 (SB), and 5 at Colyer Lake on 5/18 (MH).

Seven **Golden Eagles** were seen migrating over Boalsburg on 3/14 (DO). **Red-tailed Hawks** certainly aren't unusual for Centre County, but an individual fitting the description of the Krider's race near Colyer Lake in mid-March was noteworthy (DB). Two **Sandhill Cranes** were observed circling over State College on 3/22 (NB) and another individual was at Curtin Marsh from 5/27 through 29 (MHe).

Shorebird migration was spotty, as usual. Two **Ruddy Turnstones** were at Colyer Lake on 5/31 and 6/1 (EZ, DG, GG), and 10 **Dunlin** were at Colyer Lake on 5/28 (MH). The best shorebird of the period was a female **Red-necked Phalarope** that paid a very brief visit to Bald Eagle State Park on 5/24 (RS). Another good sighting was that of an **Upland Sandpiper** along route 220 near the Blair County line on 4/13 (AG).

Four tern species were reported for the period. **Caspian Terns** were at Colyer Lake 4/8 through 15 (JY, MH) and at Bald Eagle State Park on 5/8 (RS). **Common Terns** were at Colyer Lake on 4/8 (MH) and Bald Eagle State Park 4/18 - 22 (MH). A **Forster's Tern** was at Bald Eagle State Park on 5/6 (SB) and individual **Black Terns** were at the Penn State Retention Pond on 5/27 (RSt) and Colyer Lake on 5/26 (DB).

There were quite a few reports of **Olive-sided Flycatcher** for the period. Individuals were found at SGL 176 on 5/18 and 6/2 (NB), Bald Eagle State Park on 5/22 (MH), Bear Meadows on 5/23 (NB), and Black Moshannon State Park on 6/6 (EB). The last report of the Bald Eagle State Park **Northern Shrike** was on 3/5 (MH). The only spring **Philadelphia Vireo** report was from SGL 176 on 5/10 (Rst). Warbler migration seemed to begin about a week earlier than usual, and SGL 176 seemed to be the county hot spot. A **Brewster's Warbler** hybrid was there on

5/23 and later (RSt). A **Mourning Warbler** was at Sunset Park in State College on 5/30 (JM). A possible **Brewer's Blackbird** was reported from the Zion area on 3/10, but the record unfortunately couldn't be verified (DT).

Observers: **Eugene Zielinski, 1322 Old 220 Rd., Bellefonte 16823, (814) 353-8212, eez55@earthlink.net,** Cindy Angelone, Jean Aron, Nick Bolgiano, Gerry Boltz, Dave Brandes, Hillel Brandes, Susan Braun, Margaret Brittingham, Ed Budd, Nina Cohen, Jim Curtis, Jennifer DeCecco, Jim Dunn (JDu), Roana Fuller, Alan Gregory, Greg & Deb Grove, Molly Heath, Mark Henry (MHe), Mike Lanzone, Wayne Laubscher, Jen Lee, Scott Lewis, Mike Lohr, Matt Marshall, Denyce Matlin, Joel McNeal, Chuck Musser, Alison Norris, Tim O'Connell, Dan Ombalski, John & Becky Peplinski, Larry Ramsey, John & Kathy Rippey, Jason Ryan, Ursula Sherrill, Thomas Shervinskis, Robert Snyder, Robert Stone (RSt), Don Timmons, Chuck Widmann, John Yerger, Eugene Zielinski.

#### **Chester County**

Locations: Marsh Creek (MC), Struble Lake (SL)

Because of the low temperatures, heavy snow cover, and lack of open water, the few waterfowl that were present during the Christmas Bird Count vanished and for the most part did not reappear until late February into March. Birders in the county were discouraged by the lack of activity during the most severe part of the winter. After the passage of winter, the county was pretty well covered because of the annual spring count by the West Chester Bird Club held from 4/15 to 5/15 by anyone anywhere in the county. There were also several birding trips by the WCBC, and the North American Migration Count (NAMC) on May 10, all of which contributed birding information for this report.

**Common Loons** were well represented during migration. The first report was for one seen by (ML) at MC. The highest count was on 4/8 when HM saw an amazing number of 38 birds at MC! **Red-necked Grebe** excitement hit this county late because most of the water was frozen. TD found the first one at Wedgewood Pond in Caln Township on 3/10. Grebes were then found on other bodies of water as they thawed. A high number of five were found on MC on 4/3 (EW). Good numbers of **Double-crested Cormorants** were observed. GS counted 30 at Struble Lake on 4/17. N&SP saw 47 flying over West Chester on 4/20. P&BH observed 15 birds at SL on 4/29. Unexpected were two sightings of **Little Blue Herons**: 1 at MC on 4/21 (GS), and 1 on 5/6 at GS's home property in Honey Brook Township.

**Snow Geese** came through, but of course, in numbers far less than the huge migration through Middle Creek Wildlife Management Area. The migration lasted mainly from 3/14 when 300+ were observed at the SL area (EW), through 3/25 when 400 were counted flying over West Chester (N&SP), and ending on 4/2 when 200+ flyovers were counted (N&SP). A **Ross's Goose** was observed just once in the county at SL (LL with his Early Birds Nature Club) on a field trip.

**Northern Shoveler** reports were almost absent. The only report were 4 birds on Wedgewood Pond on 3/26 (GS, HM). **Ring-necked Duck** numbers were very good. Migration began 3/1 with 40 at MC (EW) and tapered off on 4/28 with 6 found at Honey Brook Sewage Treatment Plant (GS). The highest number was 63 found at Coatesville Reservoir on 3/17 (TD). Appearing on only one day were a **Surf Scoter** at MC on 4/22 (BB, GS, P&BH), a **Black Scoter** at MC on 4/11 (GS), and **Long-tailed Ducks** on 3/26, appearing on both MC and Chambers Lake (HM, JK).

TS looked up from yard work in West town on 5/20 and saw a long-winged, slender raptor floating above the tree line.

"I noted a sharply-squared tail and gray underside, darker toward the ends of the wings." He acquired a life bird, the **Mississippi Kite**. While kayaking on MC, JMc watched a "sorry-looking Sharpie that was trying to cross the lake into a strong wind. He was flying about 2 feet above the level of the water." He does not say if the bird made it to shore or not. N&SP reported 2 **Red-shouldered Hawks** flying almost daily over their home in West Chester during mid-April. The hawks were once seen locking talons and tumbling!

A **Sandhill Crane** was reported on the Hartefeld National Golf Course outside of Avondale on 4/21 (TA). He took photographs and is wondering if anyone else saw the bird. Following up on the story, BB spoke with Cathy Huneke who lives in Kennett Square. She went down to the golf course on 4/22 to look for the crane but did not see it. She spoke to a fellow at the pro shop who indicated it had not been seen yet that day, but that it had been hanging around the pro shop when it was around. "The implication was that they had been seeing it for at least a couple of days."

Shorebird sightings were scarce because of high water in the lakes and ponds. However, **Solitary, Spotted, and Least Sandpipers** were found on several dates in several areas. **Wilson's Snipe** and **American Woodcock** were also reported many times by many observers. Several people were fortunate enough to find an area where the woodcocks were displaying. MR found such a place at Chambers Lake. JMc found such a place at MC, directed MH and LT to it who then directed the Wolfs to it. JMc found a life bird when he discovered a **Red Phalarope** at MC while kayaking on 4/21. He reported it as a Red-necked Phalarope, checked the phalaropes in Sibley's Guide To Birds and found that it looked like a Red Phalarope. He emailed Mary Gustafson, describing the bird to her. She confirmed that the little bit of yellow on the bill made it a Red, not a Red-necked. Single **Forster's Terns** were reported at SL a couple of times (B&RC, GS). One **Black Tern** was seen at SL on 5/8 (GS).

A "wheezy" flock of 120+ beautiful **Cedar Waxwings** were discovered in a tree in southwestern Phoenixville (EW) while there was still snow cover on the ground. Remnants of the flock were to be found in the trees in the area for several days. **Blue-winged Warblers** were in good supply. A **Lawrence's Warbler** was discovered during the NAMC on 5/10 in the Embreeville Park (JMc, TD). No **Tennessee Warbler** and only 1 **Nashville Warbler** were reported. The **Nashville** was seen during the NAMC at SL (GS, MP). **Northern Parulas, Yellow Warblers, Chestnut-sided Warblers, and Magnolia Warblers** had many reports of sightings. No one saw a **Cape May Warbler**. Many reports of **Black-throated Blue Warblers, Yellow-rumped Warblers, and Black-throated Green Warblers** were received. Only 2 reports were made of migrating **Blackburnian Warblers** (HM, GS, BB). Only 3 reports were sent in for **Pine Warblers** (GSe, WCBC, GS), and 5 for **Prairie** (GS, TD, BB, JMc). **Palm Warblers** came through in good numbers, but only 1 **Bay-breasted Warbler** was seen in West Chester (N&SP). **Cerulean Warblers** were back on the Struble Trail and were seen and heard, 1 or 2 at a time, on various dates (HM, GS, N&SP, MH, LT). **Black-and-white Warblers, American Redstarts, Ovenbirds, Louisiana Waterthrushes, Common Yellowthroats, Wilson's and Canada Warblers** were all reported many times by many observers. **Kentucky Warblers** were in short supply this spring with only 3 reports (WCBC, N&SP). A bird not usually seen in Chester County was the **Mourning Warbler** found on the NAMC at MC (BB). HM tried to locate it the next day but was unsuccessful. Only 1 **Hooded Warbler** report was received. It was found on the Struble Trail during the NAMC (MAK et al.). **Yellow-breasted Chats** appear to be losing territory; only 1 was reported in the NAMC territory of Big Elk

Creek on 5/10 (P&BH). Reports of **Scarlet Tanagers** began on 4/30 with 1 at SL (GS). The big push of migration seemed to occur on the day of the NAMC. Fifteen were seen at Hibernia Park with 8 in one tree (RW, EW, JW), 4 at Embreeville Park (JMc, TD), 11 at The Laurels (WB, KF), and 10 at Struble Lake (GS, MP).

Hard to find sparrows for the county were **Vesper** and **Lincoln's**, and a rare **Harris's Sparrow** report was received. The **Vesper Sparrow** was found at SL during the NAMC (GS, MP). The **Lincoln's** was found at Embreeville Park (JMc, TD) during the NAMC. The **Harris's Sparrow** was reported to PA Birds by Bob Schutsky who learned about the bird from SB. The adult breeding-plumaged sparrow was feeding at her feeding area in Kennett Square on 5/4. She invited birders to visit and see it. One **Snow Bunting** was reported, found in the SL area the first week of February (LL). **Rose-breasted Grosbeaks**, always a treat for the eyes, were reported 6 times. Areas where they were seen were West Chester, Struble Trail, Marsh Creek, and Valley Forge (N&SP, HM, GS, BB, WCBC). Just 1 **Blue Grosbeak** was reported, found in the West town School area (NB, MB).

Declining **Eastern Meadowlarks** were found at 6 different locations which is encouraging. If landowners could be persuaded to delay their first mowing of grass or hay until after the baby meadowlarks have fledged, the birds might have a chance of survival in the county. **Rusty Blackbirds** were seen at White Clay Creek on 4/4 (GS, TD). These birds seem not to migrate through Chester County on a regular basis. **Orchard** and **Baltimore Orioles** were found throughout the county adding their melodic songs to those of other birds in our area.

Observers: **Eleanor Wolf, 148 Harvest Lane, Phoenixville 19460, (610) 933-6414, wolfriel@voicenet.com**, Tom Amico, William Barber, Susan Beach, Nancy Bernhardt, Bob Bernhardt, Mary Bleecker, Barry Blust, Kathleen Bond, Bob and Ruth Cook, Dave Davis, Ted Drozdowski, Christine Drozdowski, Paul Earley, Kevin Fryberger, Al Guarente, Peter Gray, Ellie and Jim Harmstead, Mike Harvell, Elizabeth Hopkins, Doc Houston, Phyllis and Beryl Hurlock, Jane Kirkland, Mary Alice Knox, Grant and Margie Lashbrook, Larry Lewis, Michael Lyman, Pat McElreavey, Doris McGovern, John McNamara (JMc), James McVoy, Holly Merker, Pat Messner, Walt Mychalus, Pat and Tony Nastase, Lew and Judie Norton, Martin Page, Nick and Sharon . Pulcinella, Marita Richards, Rick Robinson, Grier Saunders, Chris Seitzer, Marianne Seitzer, Gerry Serianni, Andy Smith, Tim Sterrett, Steve Strawbridge, Lisa Tull, Laura Wagner, Douglas and Betsy Wenny, West Chester Bird Club (WCBC), Judy White, Richard Wolf.

### *Clarion County*

Locations: Beaver Creek (BC), Clarion Area (CA) Cook Forest SP (CF), Curllsville (CV), Fisher (FI), Kahle L. (KL), Mt. Airy (MA), Mt. Zion (MZ), Pine City (PC), Shipperville (SV), Wentlings Corners (WC).

An early **Common Loon** was spotted at KL 3/26 (WF). The migration seemed to peak on 5/5 with 15 individuals (ML). Along with the usual **Pied-billed Grebes** on KL there was 1 **Horned Grebe** in near-breeding plumage on 4/26 (MB). **Red-necked Grebes** continued to hang around with 4 seen on the Clarion River in CA on 4/4 (RM) and 2 seen as late as 5/29 at KL (MB). A **Great Egret** was an unusual find at WC on 4/17 (WF). Singles or pairs of **Ospreys** were seen hunting over KL numerous times but none stayed to nest. **Bald Eagle** sightings were not uncommon at KL or over the Clarion R. at CF but no nests were confirmed. **Northern Harriers** were common in the

county, mostly on the reclaimed strip mines. Nesting behavior was confirmed at MZ on 5/5 (ML).

A **Sora** visited the water fountain pool and its shrubbery in the busy parking lot of the local Holiday Inn on 5/14 surprising and delighting the observer (ML). An uncommon **Willet** turned up at KL on 5/4 (ML). **Upland Sandpipers** were first seen on 4/21 at MA (SM) and have continued. Up to 4 have been seen at the same time, 4/27 (WF). One **Pectoral Sandpiper** showed up on 4/22 at KL (MB). Five **Common Terns** as well as 5 **Forster's Terns** were patrolling KL on 5/5 (ML). A pair of **Black Terns** visited KL from 5/5 to 5/13 (ML&RM).

**Short-eared Owls** were first seen at CV on 4/6 (MB) and last seen on 4/23 (CW) with 6 being the most on 4/13 (CW). They appear not to be nesting this year nor even present in other locations. One **Whip-poor-will** was calling at Fisher on 4/29 (RS). A **Belted Kingfisher** was digging a nest site on 4/26 at KL (WF).

As usual, the first vireo was a **Blue-headed Vireo** at MZ on 4/16 (CW). The **White-eyed Vireo** appeared at KL on 5/4 (ML). Other good vireo sightings were reported from CV: **Yellow-throated Vireo** and **Warbling Vireo** on 5/3 and **Philadelphia Vireo** on 5/7 (CW). The **Red-eyed Vireo** was a little earlier, on 4/24, at FI (HB). A migrating **Marsh Wren** was attracted to a man-made waterfall in the bird-friendly garden of Ben and Deb Freed in CA on 4/23 following a night of hard frost, and it stayed through 4/25. It spent most of its time exploring the nooks and crannies of the waterfall apparently picking up insects from the moss and algae on the rocks. It also gleaned insects from the moss growing between the patio stones. It exhibited typical wren behavior in its energetic explorations and jerky motions, even going behind the waterfalls. Confirmation of the species was provided by Seneca Rocks Audubon Board members who just happened to be having a meeting when the bird was first seen (MB, GE, DF, JH, FM, RM).

Nothing exceptional was noted in the thrush migration except the presence of a **Swainson's Thrush** at FI on 5/10 (RS). The warbler migration was covered in the Spring Migration table. However two rarer warblers deserve special mention: a **Worm-eating Warbler** at Parker's Landing on 5/9, and a **Connecticut Warbler** at KL on 5/9 (RM). Both these species are seldom seen in the county.

Grassland Sparrows were abundant this spring. Three **Clay-colored Sparrows** were at MZ on 6/6 and remain (RM). **Grasshopper Sparrows** came as early as 4/30 in CV (CW). The first **Savannah Sparrows** were seen there on 4/12 (CW). The first **Henslow's Sparrows** were sighted on 4/20 also at CV (CW). **Bobolinks** and **Eastern Meadowlarks** continued in abundance this year. In addition to plenty of **Baltimore Orioles** from 5/1 and on, 2 **Orchard Orioles** were seen on 5/14 at CV (CW). There were only two reports of **Pine Siskins** this year: 2 at FI on 4/8 with the goldfinches at the feeder (RS), and a pair at Cook Forest on 5/17 exhibiting what the observer called "courting" behavior (GT).

Observers: **Margaret Buckwalter, 249 Maple Dr., Shippenville 16254, (814) 782-3925, mbuckwalter@usachoice.net**, Hendrika Bohlen, Paulette Colantonio, Deb Freed, Walter Fye, Janice Horn, Mike Leahy, Dale Luthringer, Shirley Monrean, Ron Montgomery, Ruth Schurr, Gil Twiest, Mark Vass, Carole Willenpart.

### *Clearfield County*

The most interesting sightings were **Double-crested Cormorants** at Curwensville Lake on 4/21 (EZ) and **Sabula Lake** on 5/16 (MMc), and **Greater Yellowlegs** at Curwensville Lake on 4/21 (EZ).

Grassland sparrows apparently returned to the county in late April, with reports of **Vesper, Savannah, Grasshopper,** and **Henslow's Sparrows** from reclaimed strip mines near Curwensville (MM).

Observers: **Eugene Zielinski, 1322 Old 220 Rd., Bellefonte 16823, (814) 353-8212, eez55@earthlink.net**, Matte Marshall, Mark McConaughy (MMc).

### *Clinton County*

Locations: Kettle Creek State Park (KCSP), Lock Haven (LH), South Avis (SA), Sproul State Forest (SPSF)

Clinton County was not exempt from the widely reported **Red-necked Grebe** invasion in the late winter. On 3/3, three were found on the Susquehanna River at SA (DH). Two more were seen along the river near McElhatten on 3/6 (CCH, WL). The last report was on 3/18 when 3 grebe species were found together on the river at SA: **Red-necked, Horned** and **Pied-billed** (WL). Unusual and rare for the county were 3 **Red-throated Loons** found with 2 **Common Loons** on the river at LH on 4/16 (WL). Not reported here annually, **Snow Geese** were observed with **Tundra Swans** in a field near LH on 3/11 (JB) and the same location again on 3/14 (WL). The local waterfowl migration began the last week of February and essentially ended at the beginning of April.

The first local **Osprey** was seen on 4/1 at LH (BZ). On 5/15, a **Bald Eagle** was observed by CCH at KCSP. A rare gull report for Clinton was on a lone **Great Black-backed** on the river at LH on 4/14 (JB). Another interesting "seabird" report was of 2 **Forster's Terns** seen at KCSP on 5/18 (CCH).

Rarely reported for Clinton County and inviting further investigation was a **Red-headed Woodpecker** in a burn area at SPSF on 6/6 (NB). An **Olive-sided Flycatcher** was also found there on the same day (NB). A species that is seldom reported in the county is **American Pipit**, but on 3/30 (CCH) a small flock of them was located along a road and in snow covered fields near LH on 3/30 (CCH) and again on 4/7 at SA (BZ). An excellent variety of warblers was reported in May and June by several people. Most reports were from KCSP (CCH) and SPSF (DF, NB). Good numbers of **Ceruleans** were mentioned by DF. On 4/30 at Swissdale, an immature male **Orchard Oriole** entertained the observer as it gleaned insects in a fully blossomed plum tree with 2 male **Rose-breasted Grosbeaks** simultaneously eating seeds from feeders in the same tree (WL).

Observers: **Wayne Laubscher, 749 E. Croak Hollow Rd., Lock Haven 17745, (570) 748-7511, wlaubsch@cub.kcnet.org**, Nice Bolgiano, JoAnn Bowes, David Ferry, Carol and Charles Hildebrand (CCH), Deuane Hoffman, Beth Zbegner.

### *Columbia County*

No Report  
No Compiler

*Note: New compiler beginning with the Fall Migration season.* **Doug Gross, 144 Winters Road, Orangeville, PA 17859, (570) 458-4568, dougross@sunlink.net.**

### *Crawford County*

Locations: Erie National Wildlife Refuge (ENWR), Pymatuning Goose Management Area (PGMA)

As in many areas of Pennsylvania this was a much colder and wetter spring. The last snow was April 7 but persistent

rains and cool temperatures continued through mid-May along with strong winds out of the north and east much of the time. A few birds were found ahead of the usual arrival times, but most were one to two weeks late. **Common Loons** were noted here in smaller numbers while **Horned Grebes** were found above the usual numbers. Three **Red-necked Grebe** were seen at Conneaut Lake 4/12 (m obs.). The first **Double-crested Cormorants** were present at Tamarack Lake 3/26. A early **American Bittern** was seen at Pymatuning Lake 4/9, and 1 was heard calling at Conneaut Marsh, Geneva 4/28 (MF). A **Sandhill Crane** flew over McMichael Road, Conneaut Marsh 3/17. The only report of a **Great Egret** was one found at the PGMA. While the **Tundra Swan** flight here was short I did see a flock of 350 birds at the Pymatuning Spillway 4/30. A **Snow Goose** was at the spillway 3/1 (white) and Mike Fialkovich reported 6 (blues) there 3/15.

The duck migration was slowed by the ice covered lakes in this region, but all the usual ducks did arrive, and in near normal numbers. **Osprey** were seen at Tamarack Lake 4/8, Hartstown Marsh 4/18 (MB) and at Geneva 4/24. The **Bald Eagle** population here remains solid with several pairs nesting at Tamarack, Conneaut Marsh and Pymatuning. One **Golden Eagle** was noted at Tamarack Lake 4/6. **Northern Goshawks** were found at Pymatuning 3/19 and 4/9, while **Rough-legged Hawks** were seen at Pymatuning through 4/26 (DS, MF and others). Mike Leahy had a **Merlin** there 3/15. A pair of **Virginia Rails** were calling at Conneaut Marsh (1 each side of the road) 4/9. Mike Fialkovich had **Soras** at Geneva 4/30 to 5/19. Three **Common Moorhens** were seen there on 4/30.

Despite high lake levels shorebirds were a bit better than last year. A **Spotted Sandpiper** was seen at Tamarack Lake 4/20. At PGMA's Miller Pond a **Semipalmated Sandpiper** was found 4/30, along with 6 **Least Sandpipers**. Three **Pectoral Sandpipers** were there 4/19 and 6 were found there 4/28 (MF). Two **Dunlin** were found there 4/19. MF had 13 birds there 4/28 and I found 28 there 4/30. Two **Upland Sandpipers** were seen at the PGMA 5/10 (MB), and 1 was there 5/13 (MB). On 4/24 I found 4 **Caspian Terns** resting along the dike at the first pond at the PGMA. One was seen at Pymatuning Lake 4/26 (MB). Two **Black Terns** were found at Hartstown Marsh 5/26 (MF, JV).

Jack and Sue Solomon found a roosting **Common Nighthawk** 5/19 at Conneaut Marsh. A pair of nesting **Yellow-bellied Sapsuckers** were found at Conneaut Marsh's McMichael road 5/26 (MF, JV). I had 1 **Cliff Swallow** at the PGMA 4/19 and about 50 at the Linesville Fish Hatchery main building (visitor center) nesting site 4/28. A **Brown Creeper** was still present at Conneaut Marsh 5/19 (MF, DR). A single **Winter Wren** was seen at ENWR 4/20 and fair numbers of **Marsh Wrens** were noted at Conneaut Marsh 5/19 to end the period. (MF, DR, JV). Gordon and Karlin Marsh reported the first **Wood Thrush** near Meadville 5/8 and I found 17 at Conneaut Marsh 5/22. A nice surprise was a **Northern Mockingbird** at Smith's Marsh 3/26. Four were seen 3/31 - 5/30 at Hartstown Marsh were they attempted to nest (m. obs.). A **Brown Thrasher** was seen at ENWR 4/20. Eight **American Pipits** were bathing at the Miller Pond, PGMA 4/28 (MF) and 1, also bathing was seen there 4/30. A **Warbling Vireo** was singing at the Miller Pond 4/30 and **Yellow-throated Vireos** were found at Conneaut Marsh 5/19 and 26 (MF, DR, JV). A singing male **Prothonotary Warbler** was seen at McMichael Road Conneaut Marsh 5/19 and 26 (MF, DR, JV). One was also seen at Geneva (Conneaut Marsh) 5/26 (MB). Three **Blue-winged Warblers** were at Hartstown Marsh 5/2 (MB) to end of period. A **Tennessee Warbler** was seen at Pymatuning's Ford Island 5/26 (MF, JV). The first **Yellow Warbler** was found at Geneva (Conneaut Marsh) 4/30, and 11 **Blackpoll Warblers** were noted there 5/26 (MF, JV). A single **Pine Warbler** was

found at McMichael Rd. (Conneaut Marsh) 3/17. A **Kentucky Warbler** was at Hartstown Marsh 5/10 (MB, EB).

The first **Chipping Sparrow** was observed here (Meadville) 4/12. I was able to band the **Clay-colored Sparrow** that wintered here (Meadville) 1/18 (here 1/12 thru 2/8). The bird returned to my feeder during a snowy period 3/31 to 4/6. Late **Dark-eyed Juncos** were found at ENWR 5/24 and at least 1 was at my feeders to the end of May.

**Bobolinks** were first seen 4/30 at the PGMA and the first **Eastern Meadowlark** was also at the PGMA 3/26. The first **Rusty Blackbird** was seen 3/15 at Conneaut Marsh and 125 were present there 4/19 (high count). The first **Common Grackle** was seen at Woodcock Lake 3/12. Three **Purple Finches** had arrived at Smith's Marsh by 3/22. There were no reports of other winter finches this spring.

Observers: **Ronald F. Leberman, 11508 Pettis Rd, Meadville 16335, (814) 724-5071**, Edward Blyer, Lena Blyer, Marven Blyer, Owen Blyer, Rachel Blyer, Mike Fialkovich, Irene Hochstetler, Mike Leahy, Karlin and Gordon Marsh, Clara Miller, Daniel Miller, Kathryn L. Miller, Kathryn R. Miller, Lena Miller, Jack and Sue Solomon, Donald Snyder, Danny Troyer Jr., Eli Troyer, Ervin Troyer, Harvey Troyer, Jerry Troyer, Lena Troyer, Melvin Troyer, Neil Troyer, Dave Rieger, Jim Valimont, many observers (m. obs.).

### *Cumberland County*

Overall a very nice spring migration here in the county. After winter finally released it's icy grip on us and the ponds and creeks started to thaw out the usual suspects of waterfowl were found.

The wet spring made the area around Mud Level Road near Shippensburg, PA good for northbound shorebirds. A total of 15 species were found in the county during the period. The most impressive sighting being the 183 **Pectoral Sandpipers** tallied on 3/28 (DS, RR). The **Ruddy Turnstone** seen along the rivers edge at West Fairview 5/23 is a good spring record (AM). Also found at Mud Level during this time was a **Glossy Ibis** that hung out for a few days 3/29-3/30 (DS, RR). On the subject of waders it seems as if the small colony of **Yellow-crowned Night Herons** along the Conodoguinet at West Fairview has either relocated to an unknown spot or has disbanded. I observed only one bird in the area on 4/2 and none after that. It is sad to see the possibility of this site, one of only a handful in the state, terminating.

Landbird migration turned out to be good with detection of nearly all of the expected species. Notable was the 144 species found on the NAMC. Also noteworthy was the **Loggerhead Shrike** seen by JH along I-81 near Plainfield. The bird, unfortunately, was not relocated despite numerous searches by yours truly. Interestingly, this is in the same general area where **Loggerhead Shrike** was confirmed during the previous BBA! I certainly will be on the lookout for them next year with the inception of the PA BBA round 2!

Observers: **Deuane Hoffman, 3406 Montour St., Harrisburg 17111, (717) 564-7475, corvuscorax@comcast.net**, Carolyn Blatchley, Jason Horn, Ramsay Koury, Pete Lusardi, Andy McGann, Regina Reeder, Tom Smith, Dan Snell, NAMC (North American Migration Count).

### *Dauphin County*

Locations: Haldeman Island (HI), SGL 246 near Middletown (SGL), North American Migration Count (NAMC), Stony Creek Valley (SCV), Susquehanna at Ft. Hunter (SFH), Susquehanna

from Harrisburg (SHB), Susquehanna from Marysville (SMV), Susquehanna from Millersburg (SMB), Susquehanna from Royalton (SRT), Susquehanna from West Fairview (SWF), Wildwood Lake (WL)

This season will be remembered most for the **Red-necked Grebe** invasion. Beginning in late February and continuing into early June this species was regularly reported from many vantage points along the Susquehanna River and area creeks. Nineteen were observed on the Susquehanna below the Clark's Ferry bridge 3/5 (DH). Birding the river from West Fairview to Millersburg 48 were tallied 3/14 (RK), while 13 were found at the mouth of Fishing Creek near SFH 3/22 (CD), and 3 were recorded for the NAMC at SRT (PF, et.al.). Even as late as 6/11, 2 were still present SMV (Dbg). **Red-throated Loon** was first reported SHB 4/5 (CB) while 5 were found from SHB to SFH 4/13 (CBt, J&PF, BY). Three **Common Loon** lingered to at least 6/1 SWF (RK, RR, DH, DS). A **Eurasian Wigeon** drake was first observed at WL 3/26 (P&RW) but it stayed only two days. The peak of the waterfowl migration along the Susquehanna occurred the last week of March. The weekend of 3/29-30 yielded some unusually high numbers for some species. Some examples from SWF include: 300 **Horned Grebe**, 57 **Common Loons**, 125 **Canvbacks**, 150 **Long-tailed Ducks**, 1,200 **Bufflehead**, and 1,500 **Red-breasted Mergansers** (DH, RK, RS). **Surf and White-winged Scoters** were first reported 3/29 SMV (DH, ST) while **Black Scoter** was added 4/15 SHB (DH, RF).

The first **Double-crested Cormorant** was noted 3/11 SRT (N&CJ) and 3/15 remains the date for the return of the **Great Egrets** at WL (SL). The annual Wade Island Nest Survey showed the continual increase in cormorant nests with 31 recorded (up from 21 in 2002). **Great Egret** nests also reached a new high with 193 (previous high was 166 in 2001) while **Black-crowned Night Heron** dipped to 99, equaling the second lowest total since the survey began in 1985. A **Snowy Egret** was observed in South Hanover Twp. 4/4 (BC), and another was reported 6/5 at SMV (DBg). The first **American Bittern** reported was recovered 4/8, rehabilitated, and released at WL 4/12 (B&JC). As many as 2 **American Bitterns** continued to be seen at WL through 4/21 (JG, TJ); and, another lingered at an East Hanover Twp. Pond from 5/3- 5/12 (N&CC). A **Glossy Ibis** also paid a visit to WL 4/21-4/25 (CD, SL). There were two sightings of **Sandhill Crane** this quarter. The first was on the SHB 4/15 (DH) and the other was in northern Dauphin Co. near Halifax from late May into early June 6/6 (SB).

Many have enjoyed the successful nesting of the **Peregrine Falcons**, as well as the hatching 5/5-6 and fledging of the 4 young on the Rachel Carson Building in Harrisburg via the Web. The two known **Bald Eagle** nests in northern Dauphin Co. were also successful with each producing 2 eaglets. (SB). A **Northern Goshawk** was reported near the Swatara Creek bridge at Hummelstown 3/31 (TJ).

A **Common Moorhen** was found at WL 5/7 (SL) and another was tallied on the NAMC 5/10 at HI (SB). An injured **Virginia Rail** was recovered in Fishing Creek Valley 5/15 (BC, JG). Among the shorebirds reported from SWF this quarter were **Dunlin** 4/14 (DH) and **Ruddy Turnstone** 5/23 (AM). Another **Dunlin** was found on HI 5/10 (SB), and 7 more were reported SWF 6/1 (RK, et. al.). Noteworthy was the 51 **Solitary Sandpipers** counted on HI for the NAMC 5/10 (SB).

Among the more that 400 **Bonaparte's Gulls** at SFH a **Little Gull** was discovered 4/2 (CBt, DH) and 2 were observed from the same location 4/5 (RK). All four of the expected terns, **Caspian**, **Common**, **Forster's** and **Black** were reported beginning in mid- April. The latter three, along with **Bonaparte's Gull**, were still being observed as late as 6/1 (RK,

et.al.). **American Woodcock** returned 3/14 to South Hanover Twp. (JG) while the first **Wilson's Snipe** was reported in nearby East Hanover Twp. 3/23 (SZ). Five **Purple Martins** were counted, with other swallows at SHB 4/27, and the first **Common Nighthawks** were reported over Harrisburg 5/3 (CB, DH).

The passerine migration also yielded some interesting species. A **Yellow-throated Warbler** 4/29 and a **Philadelphia Vireo** 5/4 were found in MGL (PF), and a **Yellow-throated Warbler** was observed again in South Hanover Twp. 5/23 (JG, TJ). A **Lawrence's Warbler** (hybrid) was first observed in SCV 5/3 (PF, DH, BY) and was found again for the NAMC in the same location (TS). Reports of **Mourning Warbler** were 5/17 MGL (PF) and 5/23 in South Hanover Twp. (JG, TJ). An **Olive-sided Flycatcher** was noted near Linglestown 5/29 (RK).

**Fox Sparrows** were first reported 3/9 in Middletown (JD) and Hummelstown (JR) and were still seen at yard feeders to mid-April in Carsonville 4/12 (J&JF) and Hummelstown 4/15 (J&PF). **American Pipits** and **Lapland Longspur** were found in the Hershey farm fields 3/16 (CBt). **Rusty Blackbirds** were first noted at WL 3/28 (RK, JR), while both **Red Crossbill** 4/27 (DH, AM) and a **Red-headed Woodpecker** 5/3 were seen in SCV (PF, DH, BY). A sampling of the "first of the year" reports included: **Tree Swallow** 3/1 (RK, JR), **Red-winged Blackbird** 3/5 (SL), **Northern Rough-winged Swallow** 3/26 (P&RW), **Field Sparrow** 4/3 (NC), **Broad-winged Hawk** 4/15 (DH), **Rose-breasted Grosbeak** 4/22 (JG), **Ruby-throated Hummingbird** 4/28 (JD), and **Willow Flycatcher** 5/10 (BC, RW).

Observers: **Richard and Patricia Williams, 3 Parkside Dr. Hummelstown 17036, (717) 566-6562, rwpuffin@aol.com**, Bill Baker, Chuck Berthoud, Scott Bills, Carolyn Blatchley (CBt), Dan Bogar, Beth & John Carricato, Joe Church, Nancy Cladel, Bernie Crist, Jim Davis, Cindy Dunn, Lisa & John Fedak, Jodie & Pete Fox, Ron Freed, Joan & Jim Funck, Jim Gable, Ian Getgood, Deuane Hoffman, Steve Hoffman, Tom Johnson, Cliff Jones, Nancy & Carl Juris, Ramsay Koury, Karl Kugle, Sandy Lockerman, Peter Lusardi, Larry Massey, Janet Maynard, Andy McGann, Pam Parsons, Steve Rannels, Regina Reeder, Joan Renninger, Tom Smith, Dan Snell, Rick Stevick, Bill Youtz, Sally Zaino.

#### *Delaware County*

Locations: Darby Creek (DC), Darlington Tract (DT), Delaware River (DR), John Heinz National Wildlife Refuge at Tinicum-Del. Co. portion (TI), North American Migration Count 5/10/03 (NAMC), Philadelphia International Airport (PHL), Ridley Creek State Park (RCSP), Rose Tree Park Hawk Watch (RTPHW), Tyler Arboretum (TY)

March began with an icy snow covering the ground and some ice covered Springton Reservoir until the end of the month. After a few clear days, April turned cold and rainy with snow on the 7<sup>th</sup> and 11<sup>th</sup> making it difficult for the Rose Tree Park Hawkwatchers to break raptor records (but they did, and more!). **Purple Martins** returning ca. April 5 to the Aston colony were found dead below their houses after the snow on 4/7. Of 8 adult martins huddled into one compartment in late rainy May, 3 were dead two days later. May brought the end to the infamous three-year drought with torrents of rain on record numbers of days. Birders complained, and breeding birds suffered. **Eastern Bluebirds** were reported to be 2-3 weeks late nesting (BB).

Delaware Co. accounted for a small share of the **Red-necked Grebes** that were in the Delaware Valley this season, and TM found a pair on SR on 3/9 and birds were seen until 4/1

(DM). **Snow Geese** first passed over RTPHW 3/29 and more than 1,600 were counted on 4/2. Ducks returned early in March and limited open water made them easy to find. From 3/9-13 at SR were: 12 **Wood Duck**, 4 **Gadwall**, 10 **American Wigeon**, 10 **Northern Pintail**, **Green-winged Teal** and a **Eurasian Teal** (Common Teal) noticed first by the white horizontal bar on the back (DM). Also, with them were 43 **Canvasback** (TM), 3 **Redhead** (DM), 137 **Ring-necked** (DM), a female **Lesser Scaup** (AG), 16 **Bufflehead**, 9 **Common Goldeneye** (DM) and 20 **Ruddy Duck** (AG). Along the TI portion of Darby Creek 3 **Greater Scaup** were seen 3/28 (JM). **Red-breasted Mergansers** were found on DC from 3/25 (EP, DM) and over RTPHW on 4/16.

At RTPHW camp chairs were turned around in anticipation of the spring raptor migration. The flight was good until the weather interrupted. Record totals for **Black Vulture**--52, **Turkey Vulture**--522, **Osprey**--137, and **Bald Eagle**--25 required many patient observer hours from 3/15-4/30. On 3/22 a **Rose-breasted Grosbeak** beat its early county record by a month, and, 4 **Glossy Ibis** circled overhead on 4/4. Best of all, for fifteen minutes on 3/27 at 11:30 a.m., 5 **Sandhill Crane** circled in a "v" formation delighting four observers (DW, AB, SC, GB). Dave Washabaugh writes, "...upon sighting the dam (at SR), they broke formation, two circling clockwise, three counter-clockwise--giving us good looks from above and below. They resumed formation and flew off to the NNW. An interesting sidelight is that Derby Hill Hawkwatch (57 km N of Syracuse, NY) reported 4 **Sandhill Cranes** the following day at 1:30 p.m., easily within their range from Rose Tree when helped along by southerly winds. They may not have been the same birds, but I wouldn't bet against it." A **Broad-winged Hawk** returned to the same Media backyard to breed for the third year (DM). The female **Northern Bobwhite** at a Rose Valley feeder last quarter was not a spinster. By May, this female, an elusive Christmas Count species, had a string of chicks trailing behind her on Vernon Rd (AC). A **Wild Turkey** landed in a tree on a Marple grade school playground 4/8 (AG, NP) to the delight of many observers.

Shorebird reports were minimal; actually there were only two: **Greater Yellowlegs** at TI 5/9 (JM) and **Spotted Sandpiper** 5/14 at SR (AG). The compiler went to the DC mud flats on several occasions, but always hit them at high tide. In a wet area at the end of a PHL runway, 31 **Wilson's Snipe** rested 3/29-4/12 (AG, JM). As usual **American Woodcock** could be heard "peenting" at RCSP 3/27 (AG). In the airport area, including the mitigation site at TI, 2 **Bonaparte's Gulls** were seen 4/12 (AG) and from 1-3 **Common Tern** were heard and seen from 4/24-5/9 (JM). **Laughing Gulls** spend more time in our area than people realize, but 200 of them going over Prospect Park on 5/25 was unusual (JM).

A **Yellow-billed Cuckoo** was heard along the Bridle Trail at RCSP for the last two weeks of May (AG). An **Olive-sided Flycatcher** was seen in suburban Havertown 5/20 (RH) and a **Least Flycatcher** was one of the best birds on the NAMC (JL). **Cliff Swallows** nested again under the Gradyville Rd. bridge at SR. On 3/2 AG saw a flock of 60 **Horned Lark** at PHL and among them were 3 **Lapland Longspur**, 1 in breeding plumage. JM reported a heavy migration of **Swainson's Thrush** over Prospect Park between 9-10 p.m. on 5/8. There were no remarkable warbler reports. A **Louisiana Waterthrush** at RCSP 4/2 (SC) and **Pine Warblers** at TY 3/19 (TR, AS) and at Hildacy Farm 4/6 (MG) were the first of 27 warbler species, which did not include any of the harder-to-find rarities. Given the poor weather conditions, 2 **Pine Warblers** competed for suet at SC's feeder 4/5-12. A **Worm-eating Warbler** at Haverford College on 5/8 was the 165<sup>th</sup> species logged there by SJ, but on 5/31 at the RCSP Bridle Trail, it was probably nesting (AG, DM).

**Savannah Sparrow** was reported at PHL on 4/12 (AG). An adult **White-crowned Sparrow** on 5/12 and **White-throated Sparrows**, through the end of the report period, were at JM's Prospect Park feeder. A singing male **Blue Grosbeak** was located behind PHL opposite the air traffic control tower on 5/10 (JM). At least one pair persists in this traditional breeding site in spite of motor bike and ATV trails that have pierced the narrow strip of land where they breed. Hundreds of riders use the area on weekends and the noise and dust is spectacular.

Observers: **Doris McGovern, 209 Dogwood Rd., Media 1 9 0 6 3 , ( 6 1 0 ) 5 6 5 - 8 4 8 4 , mcgovern@masca.museum.upenn.edu**, Gary Becker, Bob Bodine, Denis Brennan, Andy Burns, Skip Conant, Ned Connelly, Ann Curtin, Steve Dupont, Al Guarente, Mike Guenther, Sheryl Johnson, Jim Lockyer, Tom McParland, John Miller, Martin Page, Edie Parnum, Nick Pulcinella, Tom Reeves, Alice Sevaeid, Steve Strawbridge, Dave Washabaugh, Rick and Sharon West.

#### *Elk County*

No Report  
No Compiler

#### *Erie County*

Winter held on well into spring with Presque Isle Bay remaining mostly ice-covered to the third week of March. Despite the limited open water, 15,000 ducks including mostly **scaup**, **Canvasbacks**, and **Common Goldeneye**, managed to squeeze in a small area of ice-free water at the head of Presque Isle Bay and off beach 11. Cool temperatures continued through May, undoubtedly contributed by floating ice still present on Lake Erie as late as April 20. Passerine migration was light on the ground with no major fall-outs. However, one observer noted many good night-flights of *Catharus* thrushes (hundreds) and numerous **Black-billed Cuckoos** along Lake Erie. The following unusual birds were recorded from Presque Isle State Park unless noted otherwise.

Always extremely rare in spring was a **Red-throated Loon** on April 5 (JM). Since there was little open water during the big **Red-necked Grebe** fallout throughout the state, the Presque Isle area produced only ten birds from 3/4 to 4/21 (m.ob.). A total of 8 **American Bitterns** were recorded from 4/19 to 5/18 (m.ob.). **Least Bitterns** were especially rare this spring with only 2 reported. One was observed on 5/24 (RS) and another 5/29 (PH). A total of 7 **Great Egrets** were seen from 4/6 to 5/24 (BC, LM) and 9 **Black-crowned Night-Herons** were present from 4/9 to 5/24 (BC). Four **Surf Scoters** were found from 4/4-5 (BC), but 13 **White-winged Scoters** were present from 3/22 to 4/8 (JM). The single **Black Scoter** on 5/7 was the only one reported (BS).

A **Northern Goshawk** on 3/3 was unexpected along a busy street in Erie (RSw). Ten **Merlins** from 4/2 to 5/18 was a typical number for spring migration (BC). Surprisingly the only **Peregrine Falcon** reported was 1 on 4/12 (JM). Expected annually now was a total of 6 **Sandhill Cranes** from 3/27 to 5/1 (BC). Single **Willetts** made a brief visit on 4/28, 5/4 & 5/13 (JM, BC). A very early **Ruddy Turnstone** appeared on 4/27 and left on 4/28 (BC). **Little Gulls** were observed in April with 2 birds present on 4/5 west of Presque Isle (BC), 1 on 4/7 (JM), and a single bird on 4/17 (BC). A single **Thayer's Gull** type was studied on 3/8 (JM) and 3 **Iceland Gulls** lingered from 3/14-22 (JF, JM) with 1 appearing on the late date of 5/11 (JM). Not nearly as rare as in the past, was a total of 7 **Lesser Black-backed Gulls** from 3/11-20 and 4/7 & 21 (BC, JM). A total of 9 **Glaucous Gulls** from 3/6 to 4/21 were typical for this season

(LM, JM), but 1 on 5/13 was quite late (DW). An early **Caspian Tern** was found on 3/28 (JM). More exciting was the presence of a pair of territorial **Black Terns** that arrived on 5/12 and remained through the period (BM, JM).

A single **Yellow-billed Cuckoo** was about two weeks earlier than expected on 5/1 (JM). At least 2 **Long-eared Owls** were discovered on 3/20-22 with a single one present from 4/23-27 (JM). A total of 8 **Short-eared Owls** was typical for spring migration from 3/16 to 4/21 (LM, BC). One or 2 **Northern Saw-whet Owls** from 3/16-21 were a low count for spring (JM). Single **Olive-sided Flycatchers** were observed on 5/18 (BC) and 5/24 (RS). Single **Northern Shrikes** made brief visits in Fairview on 3/1 & 14, and a total of 3 were on Presque Isle from 3/1-16 (DS, LM).

Single very early **Tree Swallows** appeared on 3/15 at Presque Isle (BC), and 3/15 at Waterford (JH). Always rare but regular were **Northern Mockingbirds** from several locations in the county (m.obs.). An earlier than usual **Golden-winged Warbler** was found on 5/1 (LM), and 1 was seen on 5/20 (RK). A single **Brewster's Warbler** was noted on 5/6 (BC), and another on 5/11 (JM), but a **Lawrence's Warbler** was a much rarer find on 5/11 (BC). An **Orange-crowned Warbler** on 4/19 was a record early date in the county (BC), and a total of 9 for the season was a high count for any season (m.ob). A pair of **Pine Warblers** remained through the month of May with the female observed carrying nesting material (BC). The always rare **Prairie Warbler** was seen on 5/14 & 15 (DW, JM). A **'Western' Palm Warbler** on 3/25 was earlier than expected for this race, but the rarer 'Yellow' race was recorded from 4/19-26 (BC). **Yellow-breasted Chats** are never very common in Erie County, so singles on 5/10 (JHo) & 5/18 (BC) were noteworthy. Record late **American Tree Sparrows** were reported on 5/23 (BC) and 5/26 (PK). At least 3 **Clay-colored Sparrows** from 5/6 - 19 was a typical number for the spring season (JM, BP, MF). The adult male **Lark Bunting** that made a brief appearance at Gull Point on Presque Isle was photographed for a first record in Erie County and one of few for Western Pennsylvania (JM, BC). A flock of 10 **Lapland Longspurs** was a high count for this rare-in-spring species.

Observers: **Jerry McWilliams, 3508 Allegheny Road, Erie 16508, (814) 868-3059, jerrymcw@aol.com**, Ben Coulter, Toby & Jean Cunningham, John Fedak, Mike Fialkovich, Chuck Gehringer, James Hill, Joyce Hoffmann, Pat Howell, Ramsay Koury, Pat Kramer, Linda McWilliams, Bob Machesney, Betsy Potter, Don Snyder, Randy Stringer, Bob Sundry, Ruth Swaney, Dave Wilton, many observers (m.obs.).

### *Fayette County*

Locations: Jacob's Creek Lake (JCL), Mill Run Reservoir (MRR), Ohioyle State Park (OSP).

Spring brings more birders to the county, so the reports have increased for this season. In addition, there was a group covering the county for the NAMC which also added data to the report.

The only **Common Loon** reported was a bird at JCL 4/5 (MMC). Two **Pied-billed Grebes** were seen at JCL 3/18 and 4/5 (WS, DS, MMC); 4 **Horned Grebe** were there 3/18 (WS, DS). Fayette was added to the list of counties with **Red-necked Grebe** reports on 3/19 when a single bird was seen at JCL (WS, DS). Two were present 4/5 (MMC), and 1 was last reported 4/10 (WS, DS). Three **Great Egrets** were a nice find at Deer Lake 4/22 (WS).

The only **Tundra Swans** reported were 2 birds at JCL on 3/18 (WS, DS). Two **Mute Swans** were reported on the NAMC (SK). Waterfowl highlights include a **Blue-winged Teal** 4/5

(MMC), 5 **American Wigeon** 3/9 (MMC), 4 **Gadwall** 3/9 (MMC), 23 **Ring-necked Duck** 3/19 (WS, DS), and 2 **Canvasback** 3/15 (WS, DS) all at JCL. On 3/9 there were 5 **Redhead** and 18 **Greater Scaup** at Bridgeport Reservoir (MMC). On 4/5, 23 **Lesser Scaup** were seen at JCL (MMC). Single **Common Goldeneye** were reported on 3/29 (BK), 4/5 and 4/19 at JCL (MMC). Surprisingly, there were only two reports of **Buffleheads**: 1 on 3/18 (WS, DS) and 1 on 3/29 (BK) at JCL. Six **Ruddy Ducks** were seen at JCL 4/5 (MMC). A group of 15 **Hooded Mergansers** were at Bridgeport Reservoir 3/9 (MMC), 10 **Red-breasted Mergansers** were at JCL 3/24 (MMC), and 2 **Common Merganser** were at JCL and Deer Lake 3/18 (WS, DS). On 5/4, a single **Common Merganser** was at MRR (JH, DW, MV).

A **Broad-winged Hawk** was observed carrying prey 5/3 at OSP (MF, DR). An **Osprey** was at MRR 4/10 (MMC), 2 were at Deer Lake 4/19 (MMC), and a bird was seen flying over OSP 5/3 (MF, DR, JH, DW, MV).

A few shorebirds were reported including a **Lesser Yellowlegs** and **Spotted Sandpiper** at MRR 5/4 (JH, DW, MV). A **Spotted Sandpiper** was seen just above the Ohioyle Falls on the Youghiogheny River 5/7 (MK, PL, SL). The observers thought it looked out of place along the raging rapids. Two **Wilson's Snipe** were found at MRR 4/10 (WS, DS), and **American Woodcock** were heard performing flight displays at Laurelville 3/29 (BK). A **Bonaparte's Gull** and a **Herring Gull** were at JCL 3/29 (BK). A **Forster's Tern** was a nice find at JCL 4/5 (MMC), and another was seen at that location 5/10 (DB).

The colony of **Cliff Swallows** at OSP continues to do well. At least 40 birds were seen 5/4 (MF, DR). **Cliff Swallows** and **Northern Rough-winged Swallows** are also nesting at MRR (MF, DR). A **Loggerhead Shrike** seen on the NAMC 5/10 was the highlight of the count (SK). The only **Blue-winged Warbler** reported was 1 at OSP 4/27 (MK, BS). Single **Golden-winged Warblers** were seen at OSP 5/3 and 5/7 (MF, DR, JH, DW, MV, PL, SL, MK), and 4 were counted on the NAMC 5/10 (SK). A **Prairie Warbler** was seen 5/3 at OSP and 4 were seen during the NAMC (SK). **Yellow-breasted Chats** and **Yellow-throated Warblers** continue to breed at OSP. A **Palm Warbler** was a nice find at OSP 5/3 (JH, DW, MV, MF, DR). A total of 26 species of warblers were recorded this spring.

Uncommon in the county, a **Vesper Sparrow** was recorded on the NAMC, as well as 8 **Savannah Sparrows**, 6 **Grasshopper Sparrows**, 2 **White-crowned Sparrows**, and 2 **Lincoln's Sparrows** (SK). **Bobolinks** and **Eastern Meadowlarks** were seen in an agricultural field on Middle Ridge Road, just outside OSP on 5/3 (JH, DW, MV, MF, DR). An **Orchard Oriole** was seen also seen at that location 5/3 (MF, DR).

Observers: **Mike Fialkovich, 805 Beulah Road, Pittsburgh, 15235 (412) 731 - 3581, mpfial@sgi.net**, Dick Byers, Margaret Higbee, Joyce Hoffmann, Sharon Kanareff, Bob Keener, Margie Kern, Dennis Lauffer, Pat Lynch, Sherron Lynch, Mark McConaughy (MMC), Dan Meharry, Dave Rieger, Dana Shaffer, Walt Shaffer, Becky Smith, Mark Vaas, Dave Wilton.

### *Forest County*

Locations: Allegheny National Forest (ANF), Buzzard Swamp (BS), Marienville (MR), Red Brush (RB), Tionesta (TI), Tionesta Creek (TC), Tionesta Lake and Outflow (TL), Yellowhammer (YH)

A **Pied-billed Grebe** was found at TL on 3/18 (F&JM). The **Red-necked Grebe** "fallout" that had begun on 2/28 continued until 3/9, with a high of 3 individuals at TL on 3/2 (JF, F&JM). A single **Horned Grebe** was found at TL on 3/13. **Double-crested Cormorant** were spotted at TL on 5/9, with 4

individuals at BS on 5/10. The first **Turkey Vulture** was noted on 3/14 (F&JM). Eight **Tundra Swans** were reported on 3/8 (NM). The first **Wood Ducks** were seen on 3/13 (F&JM).

Seven **Blue-winged Teal** were reported on 4/13 at BS, (PC, AH) where 2 remained on 4/20 (F&JM). **Ring-necked Duck** were spotted on TC on 3/2 (JF) and also at MR on 3/24 (J&BW). **Greater Scaup** and **Long-tailed Duck** were found at the Allegheny River on 3/9 (F&JM). **Bufflehead** were found at TL on 3/9 and also at MR on 3/24. Three **Common Goldeneye** were seen at BS on 4/13 (PC, AH). There were several reports of **Hooded Merganser** between 3/2 and 3/24 at MR and TL (NM, J&BW, F&JM). Twenty-four **Common Mergansers** were observed at the Allegheny River on 3/9 (F&JM). **Red-breasted Mergansers** were seen on 3/2 at TC (JF) and also on 3/9 at the Allegheny River (F&JM).

An **Osprey** made an appearance at Cook Forest on 4/28 (PC, DF). Two **Broad-winged Hawks** were noted on 4/20 near TI, and a **Rough-legged Hawk** was seen on 3/16 at BS. Two **American Coots** were seen on 4/20 at BS. Two **Killdeer** were noted on 3/17 at TI. Seven **Greater Yellowlegs** were seen at BS on 4/20 (F&JM). The first **American Woodcock** was heard on 3/18 at MR (J&BW). Single **Bonaparte's Gulls** were spotted on 4/9 at TI and on 5/10 at Beaver Meadows. Three **Common Terns** and 2 **Black Terns** were present at BS on 5/10 (F&JM).

The first **Whip-poor-will** was heard on 5/10 at RB, and the first **Chimney Swifts** on 5/10 near TI (F&JM). **Ruby-throated Hummingbird** appeared at Yellowhammer on 4/30 (LD). Two **Yellow-bellied Sapsuckers** were found on 5/10 at TI and Beaver Meadows. The first **Northern Flicker** was spotted on 3/30 near TI (F&JM). An **Eastern Wood-pewee** was found near MR on 5/27; a **Least Flycatcher** at KL on 5/10 (F&JM). An early **Eastern Phoebe** appeared near MR on 4/4 (J&BW). The first **Eastern Kingbird** was seen on 5/4 at RB (F&JM). Two **Blue-headed Vireos** were spotted at ANF on 4/20; the first **Red-eyed Vireo** was at TC on 5/9 (FM). **Tree Swallows** and **Northern Rough-winged Swallows** were reported at BS on 4/13 (PC, AH). Three **Bank Swallows** were seen at TC on 5/9, 6 **Cliff Swallows** at Kellestville on 5/10, and a **Barn Swallow** at RB on 5/4. A **Red-breasted Nuthatch** came to a feeder near TI until 4/8. A **House Wren** was noted on 5/10 at TL. Two **Golden-crowned Kinglets** were spotted on 4/20 at BS, while a **Ruby-Crowned Kinglet** was seen at TL on 4/15 and again on 4/21 (F&JM). The first **Blue-gray Gnatcatcher** was seen on 4/20 at BS, the first **Veery** on 5/27 near MR. A **Hermit Thrush** was heard on 3/27 at ANF, and a **Wood Thrush** was found at RB on 5/4. A **Gray Catbird** was seen at BS on 4/20, and a **Brown Thrasher** near TI on 4/15 (F&JM).

A **Blue-winged Warbler** was noted at ANF on 4/20; **Golden-winged** at RB on 5/10; **Northern Parula** at TC on 5/4; **Yellow** and **Chestnut-sided Warblers** at ANF on 5/4. A **Magnolia Warbler** was found at TC on 5/10; **Black-throated Blue** at RB on 5/4; **Yellow-rumped** at ANF on 4/28 (F&JM). Five **Black-throated Green Warblers** were reported at Cook Forest on 4/28 (PC). A **Blackburnian Warbler** was found at TL on 5/10, and **Back-and-white** at TC on 5/10. **American Redstart** was found at ANF on 5/4; four **Ovenbirds** and a **Common Yellowthroat** at ANF on 5/4; **Hooded Warbler** at RB on 5/10, and **Canada Warbler** near MR on 5/27 (F&JM). The first **Scarlet Tanager** was seen at ANF on 5/6; first **Eastern Towhee** near TI on 4/17. The last **American Tree Sparrow** was spotted near TI on 3/21, and the first **Chipping Sparrow** near TI on 4/1. A **Field Sparrow** was found near TI on 4/17, and a **Vesper Sparrow** at RB on 5/4. The latest **Fox Sparrow** sighting was near TI on 4/13. A **Swamp Sparrow** was noted near TI on 4/17, while the latest **White-throated** and **White-crowned Sparrows** (3) were seen near TI on 5/10 (F & JM).

The first **Rose-breasted Grosbeak** report was from YH on 5/2; first **Indigo Bunting** at YH on 5/7 (LI). **Bobolinks** were found at RB on 5/4, with 8 reported on 5/10. Five **Red-winged Blackbirds** were seen near TI on 3/6; the first **Eastern Meadowlark** was found near TI on 5/9, and the first **Common Grackle** near TI on 3/9. Eleven **Brown-headed Cowbirds** were seen near TI on 4/1 (F&JM). The first **Baltimore Oriole** was reported from YH on 5/2 (LI).

Observers found 126 different species of birds in Forest County for this reporting period.

Observers: **Flo McGuire, HC1, Box 6A, Tionesta 16353, (814) 755-3672, mcgires@usachoice.net**, Margaret Buckwalter, Pat Conway, John Fedak, Deb Freed, Ann Howe, Lisa Imperiale, Anita Mason, Nancy McGill, Flo & Jim McGuire, John & Brenda Weyant.

#### *Franklin County*

No report

**Compiler: Dale Gearhart, PO Box 155, Shady Grove, 17256, (717) 597-3979, gear@innernet.net**

#### *Fulton County*

Locations: Akersville Road-James Buchanon Forest (AR), Forbes Trail Road Pond (FTRP), Haines-Seville Wetlands Restoration Area (HSWRA), Meadow Grounds Lake (MGL)

The weather conditions consisted of several factors. The late spring thaw made it difficult for birds requiring ample waterways to rest in Fulton County. Even by March 18, MGL was still 95% frozen. The amount of precipitation was above average this spring. Storms of heavy ice and snow accumulation actually decimated large tracts of deciduous trees in the mountain top areas of James Buchanon State Forest.

**Common Loon** had 3 late stragglers on 6/3 at MGL (DS, RR). A **NAMC Pied-billed Grebe** was noted at HSWRA (DS, RR). As water conditions opened up, the Pennsylvania **Red-necked Grebe** invasion was finally observed on 3/29 at MGL (DS). Flocks of **Double-crested Cormorants** were noted at MGL on 3/29 and 5/4 (DS, RR).

The colony of **Turkey Vultures** that nested last year at the Big Cove Tannery Quarry was not found. Unfortunately, scoping of the area detected a feral goat on the rock ledges. **Black Vultures**, noted at the Pulpit, still continue to summer in the Little Cove area of Franklin County. A pair seems to utilize the McConnellsburg area to forage. A rare visitor to the county, a lone **Snow Goose**, was found in a small flock of Canada Geese at HSWRA on 4/12 (DS, RR). In an unofficial survey of HSWRA, many **Wood Duck** fledglings and **Canada Geese** goslings were noted in late May (DS, RR). **Gadwalls** were detected at MGL 3/23 and 3/29 (DS, RR). A pair of **Common Mergansers** was noted floating in the turbulent waters of Redbud Nature Area with close-up looks as the stream paralleled the road (DS, MS). A late male **Ring-necked Duck** continues to be seen at the HSWRA 6/15 (DS, MS).

Two nice finds on CREP routes highlighted the spring raptor season. A **Northern Harrier** was observed on CREP#1 on 5/15 (DS). A late **Osprey** was unexpectedly found perching in a tree surrounded by farm fields on CREP#4 on 5/19 (DS). The multitude of rainy days this spring made it difficult for hawk-watchers at the Pulpit to have many high count results. MGL had an early **Osprey** arrive 3/23 (DS, RR)

Shorebird numbers were lower than normal as high water levels remained at the local hotspot- HSWRA. Only 3 species were recorded on the NAMC (DS, RR). The **American Woodcock** was first heard in Harrisonville on 3/08 (MN).

During late March, at least 5 displaying Woodcocks were flying above State Route 30 (MN). Fulton County's gull and tern magnet, MGL, supplied the only records for spring. Several **Ring-billed Gulls** were noted on 3/23 and a single **Bonaparte's Gull** on 3/29 (DS, RR). A **Forster's Tern** was found resting along with 2 **Bonaparte's Gulls** on 5/4 (DS, RR).

Cuckoo species were scarce. An early **Barn Swallow** was seen 3/22 at FTRP (DS, RR). **Tree Swallows** continue to nest at HSWRA (DS, RR). Two **Cliff Swallows** were observed on CREP#2 5/18 (DS). No **Cliff** or **Bank Swallow** colonies are known in Fulton County, although the H.B. Mellott quarries in Warfordsburg would be a great habitat to harbor a swallow population. A **Brown Creeper** was observed nesting along Akersville Road on 5/26 (DS, RR). This bird was not recorded on the last BB Atlas Project. An **American Pipit** was at FTRP 4/11 (DS). During the NAMC on 5/10, Old Route 30 captured a mini fall-out of passerine species including **Yellow-billed Cuckoo**, flycatchers, warblers, and vireos. The fall-out highlight was the flock of 8 **Rose-breasted Grosbeaks** in the same tree (DS, RR).

A **Louisiana Waterthrush** was seen nest-building along a stream in SGL 49 on 4/20 (DS, RR). On 5/26, at least 7 **Cerulean Warblers** were singing along Summit Road (DS, RR, DP, JP). A male territorial **Golden-winged Warbler** was observed 5/26 just north of Harrisonville. (DS, RR, MN). On 5/26 AR had 3 uncommon early summer visitors--a singing **Blackburnian Warbler**, several **Black-throated Green Warblers** and a **Dark-eyed Junco** (DS, RR). DP found the only **Blue Grosbeak** sighting of the quarter. A male **Blue Grosbeak** was a surprise visitor at her own feeder on 5/4! Unfortunately, the bird stayed at the Waterfall, PA feeder for only a few minutes.

Observers: **Dan Snell, PO Box 653, Shippensburg 17257, (717) 532-7708, dan\_snell@hotmail.com**, Mike Newell, Dolores Purnell, James Purnell, Regina Reeder, Dan Snell, Marilyn Snell.

### *Greene County*

Considering the weather-or perhaps because of it-we had a nice variety of waterfowl spotted throughout the county this spring. Some larger ponds remained frozen over well into March forcing many ducks into smaller "farm" ponds. This sometimes worked out well, because one could get closer to the birds and get a good look at them. MH found a **Horned Grebe** and **Pied-billed Grebe** at Ryerson Station State Park on 3/13, along with 20 **Ring-necked Ducks**, 2 **Hooded Mergansers**, 2 **Northern Shovelers**, and 1 **Redhead**. Two days later, on 3/15 MH found 3 **Northern Pintail** in the Khedive Area, Jefferson Twp., 6 **Green-winged Teal** and 1 **American Coot** at the Waynesburg Water Dam. KR reported a total of 135 **Mallards** and 7 **American Black Ducks** on 3/8 at ponds on Eaton Road, Jefferson Twp. and Rt. 21. KK found 20 **Lesser Scaup** on ponds on Bowlby Hill Road, Wayne Twp.. A newly created wetlands area of shallow ponds at SGL 223 on Kirby Road, Whiteley Twp. provided **Greater** and **Lesser Yellowlegs**, **Spotted** and **Solitary Sandpipers**, and a **Dunlin** among the "usual" ducks and Canada Geese for AH on 5/10. A **Wilson's Snipe** was found at other ponds in SGL 223 on Fordyce Road 3/22 (KK). A **Ring-billed Gull** was seen in the Waynesburg area by KR on February 26. Several non-birding folks had mentioned seeing a "seagull" in the local plaza parking lot. Any Gull in Greene County tends to create a stir.

A **Yellow-Bellied Sapsucker** was still around and heard singing and sighted on 4/12 by KK at White's Ridge Franklin Twp. A pair of **Horned Larks** were seen at a reclaimed slate dump on Walnut Hill Road, Dunkard Twp. 4/26 (KR, MH, KK).

Also present were **Grasshopper** and **Savannah Sparrows**. A **Purple Martin** scout visited Shortcut Road, Jefferson Twp. on 3/21 (JDA). JDA reported 15 nesting pairs which seem to favor the gourds over the commercial birdhouse. RKB went for an outing at SGL 302 Richhill Twp. on 4/19 and found many warblers present, including **Blue-winged Warbler**, **Yellow Warbler**, **Cerulean Warbler**, and **American Redstart**. He had already noted **Northern Parula** and **Yellow-throated Warbler** 4/16 at the Ralph Bell Farm. A **Louisiana Waterthrush** was heard singing 3/29 on Bowlby Hill Road, Wayne Twp. (KK). A **Red-winged Blackbird** and **Common Grackle** arrived 2/23 to the feeders at the Kern Farm (KK). NH reported an **Orchard Oriole** in her yard on Drift Ridge Road 4/28.

Observers: **Kathy Kern, 322 Kennel Rd., Waynesburg 15370, (724) 627-5376, n3xsj@alltel.net**, John and Dolores Antonacci, Ralph K. Bell, Allen Hill, Marj Howard, Nancy Phillips, Kathy Reeves.

### *Huntingdon County*

Locations: Juniata River (JR), Lake Perez (LP), Lake Raystown (LR), Old Crow Wetland at Huntingdon (OC)

Cool, rainy weather was the theme for the season. Perhaps these conditions contributed to a season with a good variety of migrants mixed with the returning breeders. A total of 199 species was recorded during the March-May period with one additional strictly migrant (**Black Tern**) showing up on 6/1.

The period started with **Red-throated Loon** on 3/1 on the JR. As elsewhere, **Red-necked Grebes** were frequently found with the first noted on 3/2 and a max. of 18 at scattered locations mostly on the JR. The latest report for this seldom seen grebe was 4/24 (GG, DK). Not recorded annually, 2 **American Bitterns** were briefly at OC beginning 4/30 (GG, TK, DK).

Waterfowl migration seemed essentially average though a bit delayed by the cold conditions. The most significant fallout occurred during bad weather on 4/7 with many birds waiting out poor flight conditions for several days. At LP, this fallout was dominated by 3 species. There were an estimated minimum of 200 **scaup**, mostly **Lesser**, 100 **Bufflehead**, and 100 **Ruddy Ducks** (DW, GG). Among small numbers of other species were about 24 **Canvasbacks**, an excellent number for the county.

The Tussey Mt. hawkwatch had its best seasonal count yet for **Golden Eagles**. An eastern spring record 199 was tallied. Most passed through during the first half of March. Over 20 were counted on 4 days: 32 (3/16), 28 (3/7), 23 (3/8), 22 (3/4). The last recorded was on 4/29 (JR, DO, DB, CW). Also of note was a **Swainson's Hawk** 4/20 (ML). The season total of raptors and vultures was 2,077 including a high of 277 **Broad-winged Hawks** on 4/20.

A **Sora** was heard in a wetland near LR on 5/23 (DK, GG, DG, TK). Shorebirds of note included 2 **Pectoral Sandpipers** near McAlevy's Fort on 3/26 (DG, GG) and 24 **Lesser Yellowlegs** down from a storm on 5/12 at OC, the latter number representing the greatest number of any shorebird species recorded by this observer in this "shorebird-poor" county. A high count of 45 **Bonaparte's Gulls** was noted at LP on 3/29 (GG). It was a good season for finding terns in this county in which some years none are recorded. **Caspian** 2 at LP on 4/22, **Common** 7 at LR on 5/18, and **Forster's** max. of 13 at LR on 5/10 were all found during the report period and additionally a **Black Tern** was seen at LP on 6/1 (GG, DK, TK, DG).

Perhaps the most pleasant surprise of the period was the discovery of a group of at least 4 **Red-headed Woodpeckers** on Summit School road (GG, DK, DG, TK). Two **Olive-sided Flycatchers** were recorded, both on 5/25, one at LP (GG) and 1 on Stone Mountain (RF). A **White-eyed Vireo** (a possible rare

breeder here) was heard at LR 5/24 (DK) and 1 **Philadelphia Vireo** was seen at Little Juniata Natural Area on 5/19 (GG). A flock of over 50 **American Pipits** were near McAlevy's Fort on 3/23 (GG) and at least 1 was present until 5/8.

Songbird migration seemed normal for numbers though average arrival time was probably a bit late for some species. Thirty-two warbler species were recorded including the return of **Yellow-throated Warblers** to their breeding outpost at Lower Trail (DK). The Kyler's hosted a **Lincoln's Sparrow** at their feeder at Huntingdon in late April for the only record of this shy transient.

Observers: **Greg Grove, RR 1, Box 483, Petersburg 16669, (814) 667-2305, gwg2@psu.edu**, Dave Brandes, Roana Fuller, Deb Grove, Greg Grove, Molly Heath, David Kyler, Trudy Kyler, Mike Lanzone, Dan Ombalski, Jason Ryan, Doug Wentzel, Chuck Widmann, Gene Zielinski.

### **Indiana County**

Locations: Blue Spruce County Park (BS), Clymer (CM), Conemaugh Dam (CD), Conemaugh Floodlands (CF), Homer City (HC), Indiana (IN), Jacksonville (JV), Lewisville (LV), Stronestown (ST), Yellow Creek State Park (YC)

All water bird reports are from YC unless otherwise noted. A **Red-throated Loon** that arrived 4/29 (CG,MH,GL,SSp,LW) was approaching alternate plumage; it remained on the lake until 4/30 (EF,DL). First **Common Loon** arrived 3/25 (BF,CG,MH,PJ,DL,LW); the following day yielded 17 (DL); an individual in basic plumage lingered through the end of the season (CG,MH,SSp,JT). **Pied-billed Grebe** arrived 3/17 (LC) with peak number of 13 on 3/29 (BF,MF,PG,RG,MH,RH,DR,SSp,GS,GZ). First **Horned Grebes** were 58 spotted 3/22 (BB,BF,MH,RH,GL,GZ); last noted were 5 on 4/15 (LC,CG,BH,JH,MH,GL). The county's first **Red-necked Grebe** was observed at CD 3/4 (MF); 4 each were counted at West Penn Trail 3/28 (LH) and at YC 3/29 (BF,MF,PG,RG,MH,RH,DR,SSp,GS,GZ); 2 at YC 4/8 (LC,MH,LW) were last. YC yielded the first **Double-crested Cormorant** 3/26 (DL); high tally was 14 on 5/10 (GL,GS); a singleton still lingered through the end of the period (MH,LW).

An **American Bittern** stalking prey along Little Yellow Cove at YC was a nice surprise 4/22 (LC,CG,MH,LW); it remained in the same area and was seen by many other observers through at least 5/1 (EF,MF). First **Great Egret** was noted 3/21-26 (GL); 3 was a nice count 4/16 (MH,RH,FH,SH); last was a singleton 5/27 (CG,MH,SSp,JT). A **Cattle Egret** near Penn Run 5/13, found by DB, spent the day in a cattle pasture where it was subsequently observed by others (JB,EF,MF,DL); this was a second county record. Two **Green Herons** at YC 4/29 (CG,MH,GL,SSp,LW) were first arrivals. First **Turkey Vulture** returned to Nolo 3/4 (GL); 16 near JV 5/19 (MH,RH) was the top count. Maximum **Canada Goose** tally was 204 on 4/1 (LC,MH,LW). A single **Mute Swan** was noted 4/29 (CG,MH,LW) at Margus Lake and 5/27 (CG,MH,SSp,JT) at YC. March 11 (AJ) produced the first flight and best number (130) of **Tundra Swans**; last listed were 4 on 4/5 (LC,SG,MH,DJ,GL,SSp). Three **Wood Ducks** 3/15 (ABe,BB,FB,LC,SG,DJ,GS,GZ) were first; 30 was the peak number on 3/26 (DL). Three **Gadwalls** arrived 3/22 (BB,BF,GL,GZ) with high tally of 25 on 3/26 (DL). Another second county record, a **Eurasian Wigeon** appeared at YC 3/15 (Abe,BB,FB,LC,RG,SG,DJ,GS,GZ); it could not be relocated the following day. Thirteen **American Wigeons** arrived 3/13 (GL); numbers peaked at 20 on 3/26 (DL); 2 on 4/29 (CG,MH,GL,SSp,LW) were last. Two **American Black Ducks** at Elders Ridge on 3/7 (MH,RH) were the first to arrive; YC's

blacks peaked at 20 on 4/5 (LC,SG,MH,DJ,GL,SSp); the last were 7 noted 4/15 (LC,CG,BH,JH,MH,GL) at YC. **Mallard** maxima included 30 near CM 3/3 (EB) and 59 at YC 4/1 (LC,MH,LW). Arrival date for **Blue-winged Teal** was 3/22 (MH,RH); 17 was the best count on 4/5 (LC,SG,MH,DJ,GL,SSp); last 4 lingered till 4/29 (CG,MH,GL,SSp,LW). Nine **Northern Shovelers** were observed 3/26 (DL); last noted were 2 on 4/26 (EF,MF). Few **Northern Pintails** were reported with first one recorded 3/13 (GL) and high of 6 on 3/17 (LC) and 3/25 (BF,CG,MH,PJ,DL,LW); a singleton 4/1 (LC,MH,LW) was last. **Green-winged Teal** arrived 3/14 (GL), peaked at 27 on 4/1 (LC,MH,LW), and was last sighted 4/26 (EF,MF). GL logged both the first **Canvasback** 3/13 and the high tally of 12 on 3/26; a singleton on 4/8 (LC,MH,LW) was the last report. One to 3 **Redheads** were found between 3/22 and 3/26 (v.o.). First raft of 22 **Ring-necked Ducks** appeared on 3/13 (GL); 3/25 (BF,CG,MH,PJ,DL,LW) yielded 596 individuals; 2 still lingered 4/26 (EF,MF). One **Greater Scaup** was well studied 3/15 (Abe,BB,FB,LC,RG,SG,DJ,GS,GZ); the only other report involved 10 birds 3/26 (DL). Twelve **Lesser Scaup** on 3/13 (GL) were first; top count of 99 occurred 3/25 (BF,CG,MH,PJ,DL,LW); an individual lingered till 5/1 (EF,MF). **White-winged Scoter** reports included a lone bird 3/22 (BB,BF,GL,GZ) and 3 individuals 3/26 (DL). The 3/26 fallout included 45 **Long-tailed Ducks** at YC (DL) and 2 at BS (MH,MK), the only reports for this species. Five **Buffleheads** on 3/17 (LC) were first; 40 visited YC 3/23 (EB,RB); last lingerers were 2 on 4/30 (EF,DL). Reported only on 3/26 were 19 **Common Goldeneyes** at YC (DL), 4 at BS (MH,MK), and 2 at Nolo (GL). Arrival dates included 3/13 (GL) for both **Hooded** and **Red-breasted Merganser**; respective maxima which occurred 3/26 included 30 (DL) and 207 (GL,DL). A single **Common Merganser** on 3/26 (DL) was the lone report. Five **Ruddy Ducks** on 3/17 (GL) were first; 122 was the high count 4/16 (MH,RH,FH,SH) while 7 were still present 4/29 (CG,MH,KJ,GL,DS,SSp,LW).

One to 3 **Ospreys** were found at YC between 4/1 (LC,MH,LW) and 5/20 (EF,SG,CG, MH,AJ,GL,JS,SS,JT,LW). Two third-year **Bald Eagles** were noted at YC 3/29 (BF,MF,PG,RG,MH,RH,DR,SSp,GS,GZ). The only **Northern Harrier** reports were singletons at West Lebanon 3/16 (SG) and at YC 4/1 (LC,MH,LW); a harrier near Margus Lake later that day (MH,LW) was possibly the same individual. **Sharp-shinned Hawks** and **Cooper's Hawks** were each noted at 7 locations in the county during the period. **Red-shouldered Hawk** was reported regularly only from YC (v.o.). April 16 was the arrival date for 4 **Broad-winged Hawks** at YC (MH,RH,FH,SH) and 1 at Nolo (GL). A light morph **Rough-legged Hawk** near Margus Lake on 3/15 (SG,DJ) was the only report this year. The largest **Wild Turkey** flock was found near HC and included 86 birds on 3/3 (LC). Two **Northern Bobwhites** were listed on the PSO outing to CF 5/18 (LC,RC, *et al*). A single **American Coot** arrived at YC 3/14 (GL) but numbers quickly built to 195 by 4/5 (LC,SG,MH,DJ,GL,SSp). Last noted were 8 on 4/30 (EF,DL).

High water levels were not conducive to an abundance of shorebirds, but YC and the remediation wetlands along Route 286 east of Indiana near the prison yielded a few reports. Three **Semipalmated Plovers** were noted at these wetlands 5/10 (MH,RH); YC yielded a singleton 5/15 (MH). Two **Greater Yellowlegs** were at YC 4/15 (LC,CG,BH,JH,MH,GL). First **Lesser Yellowlegs** arrived at YC 4/30 (EF,DL), but the following day (EF,MF) 7 were present. Last date for both yellowlegs was 5/10 (GL,GS) when one of each species was present at YC. YC yielded the first **Solitary Sandpiper** 5/3 (LC,EF,MF,MH,BJ,MJ,JT,LW); 3 were found at the prison wetlands 5/10 (MH,RH); 2 were observed at the CF 5/18 (LC,RC,PSO). Two **Spotted Sandpipers** were the first to arrive at YC 4/19 (EF,MF). Two **Semipalmated Sandpipers**

at YC 5/25 (EF,MF) were the only ones reported. **Least Sandpiper** reports included 1 at YC 5/1 (EF,MF), 3 at YC 5/10 (GL,GS), 2 at the prison also 5/10 (MH,RH), and 2 at YC 5/16 (MH,RH,SL,CR,CTu,BW,DW). A **Pectoral Sandpiper** was listed at YC 4/8 (LC,MH,LW), the lone report. One to 2 **Dunlin** were seen at YC between 5/8 (DL) and 5/25 (EF,MF). Two **Wilson's Snipe** were located near CM 4/8-17 (EB); 3 were at YC 4/22 (LC,CG,MH,LW). First **American Woodcocks** were noted near CM 3/9 (EB) and near LV 3/13 (MC).

An alternate plumaged **Franklin's Gull**, a fifth county record, was a great find at YC 5/13 (MH,JT). Sixty **Bonaparte's Gulls** at YC 3/23 (EB,RB) were first; 112 was a good count 3/29 (BF,MF,PG,RG,MH,RH,DR,SSp,GS,GZ); the last individual accompanied the Franklin's Gull on 5/13 (MH,JT). First **Ring-billed Gulls** were 70 at the Indiana Mall 3/5 (LC); GL counted 126 at Margus Lake 3/13. One **Herring Gull** was noted at YC 3/11 (AJ); 4 were last spotted 4/22 (LC,CG,MH,LW) at YC. Single **Caspian Terns** were recorded at YC 4/15 (LC,CG,BH,JH,MH,GL) and 5/10 (GL,GS); 2 were listed there 5/1 (EF,MF). Two **Common Terns** surfaced at YC 5/12 (GL) and 5/15 (MH); 1 stopped by the lake 5/27 (CG,MH,SSp,JT). **Forster's Terns** were present on 10 dates between 4/15 (LC,CG,BH,JH,MH,GL) and 5/17 (BC,RC,BH,FG,GL,JSO,SS,GS) with top count of 20 on 5/10 (GL,GS). A **Black Tern** was a good find at YC between 5/12 (GL) and 5/27 (CG,MH,SSp,JT).

BS yielded the first **Black-billed Cuckoo** 5/7 (MH); the NAMC on 5/10 (v.o.), the first 5 **Yellow-billed Cuckoos**. No **Eastern Screech-Owls** were reported; **Barred Owl** was listed at 3 locations this period (v.o.). First **Common Nighthawks** were singletons on 5/10 in IN (JG,SG) and at YC (GL,GS). Only 3 **Whip-poor-wills**, down from 12 last year, were found in Dark Hollow 5/10 (MH,RH). First **Chimney Swift** was noted near SH 4/23 (MH); on 5/17 "thousands" were observed entering a church chimney in IN (SL,CR,CTu). **Ruby-throated Hummingbird** arrived 5/1 (MA) near Creekside. **Red-headed Woodpecker** sightings included single birds at Nolo 5/20 (CL,GL,JS), near LV 5/25 (DC,MC), and near CM 5/27 (EB). Last **Yellow-bellied Sapsuckers** were found 4/12 (LH,LiH,BJ,SSp) at CF and 4/19 (LC,MH,RH) at Blacklick Valley Natural Area. An **Olive-sided Flycatcher** was present near JV 5/16 (EF); another was seen on the PSO outing at SGL 273 (CG *et al*). An early **Eastern Wood-Pewee** was found at YC 5/1 (EF,MF). First **Acadian Flycatcher** occurred 5/9 (MC) near LV. Apparently absent from its usual territory at YC, **Alder Flycatcher** was reported only near HC 5/19 (MH,RH). The NAMC 5/10 (v.o.) yielded 5 returning **Willow Flycatchers**. First **Least Flycatcher** was sighted at BS 5/6 (CG,MH). YC yielded the first **Eastern Phoebe** 3/11 (AJ); unfortunately, an overzealous maintenance staff removed many of the phoebe nests from the buildings of this IBA in mid-May. A **Great Crested Flycatcher** at BS 5/6 (CG,MH) was first. Date of return for **Eastern Kingbird** was 5/3 both near CM (EB) and at YC (LC,EF,MF,MH,BJ,MJ,JT,LW). Both **White-eyed Vireo** and **Yellow-throated Vireo** arrived 4/26 at JV (CC,MH,LJ,TP,CT) and Blairsville (MS), respectively. Three **Blue-headed Vireos** at YC 4/15 (LC,CG,BH,JH,MH,GL) were first returns. The first **Warbling Vireo** was at YC 5/1 (EF,MF). The only **Philadelphia Vireos** were 2 at CF 5/18 (LC,RC,JK,TK,SHo). YC yielded the first **Red-eyed Vireo** 5/3 (LC,EF,MF,MH,BJ,MJ,JT,LW).

A **Purple Martin** at YC 4/22 (LC,CG,MH,LW) was the only one noted this season. Dates of return included 3/16 (DL) for **Tree Swallow**, 3/25 (BF,CG,MH,PJ,DL,LW) (early) for **Northern Rough-winged Swallow**, 4/30 (EF,DL) for **Bank Swallow**, 5/10 (GL,GS) (late) for **Cliff**, and 3/25 (RB) for **Barn Swallow**, all at YC except for Barn which was at Strongstown. **Black-capped Chickadee** numbers appeared to be low, especially in the southern portion of the county. A pair of **Red-**

**breasted Nuthatches** (MH,RH) continued at SH throughout the report period. **Brown Creepers** were singing on territory at YC 5/20 (EF,SG,CG,MH,AJ,GL,JS,SS,JT,LW). **House Wrens** returned to SH 4/21 (MH,RH). A **Winter Wren** near CM 4/18 (EB) was the lone report. **Golden-crowned Kinglets** continued in their traditional nesting area at YC 5/27 (CG,MH,SSp,JT). **Ruby-crowned Kinglets** moved through the county between 4/15 (LC,CG,BH,JH,MH,GL) and 5/10 (PJ). An extremely early **Blue-gray Gnatcatcher** was heard but not seen at YC 3/25 (CG,MH,PJ,DL); the next sighting occurred at CD 4/15 (LH,DL). A **Veery** near CM 5/18 (EB) was the county's lone report. First **Swainson's Thrush** reports were single birds at IN (PJ) and near PW (JSm,LS,LSt,RS), both 5/10; last noted was 1 at YC 5/27 (CG,MH,SSp,JT). Two **Hermit Thrushes** were observed at BVNA 4/19 (LC,MH,RH). Four **Wood Thrushes** near Blairsville 4/26 (MS), a **Gray Catbird** at YC 4/29 (CG,MH,KJ,GL,DS,SSp,LW), and 2 **Brown Thrashers** at YC 3/18 (LC) were first to return. First **American Pipits** were 5 on 3/30 (PJ) at Two Lick Reservoir; 48 stopped at YC 4/1 (LC,MH,LW), the only reports this period.

Returning 4/26, both **Blue-winged Warbler** and **Golden-winged Warbler** were first respectively listed at JV (CC,MH,LJ,TP,CT) and near Blairsville (MS). A **Golden-winged Warbler** appeared to be on territory at YC through the end of the period, but the 1-2 individuals at BS 5/6,7 (MH) were not found later in the month. A "**Brewster's**" **Warbler** returned to the same site as last year at BS 5/6 (CG,MH) and was still present through at least 5/22 (MH). **Tennessee Warblers** moved through our area between 5/7 (MH) and 5/25 (EF,MF) with all sightings involving 1-4 individuals. First **Nashville Warbler** arrived 4/26 (EF,MF) at YC; last occurred on the PSO outings 5/18 (m.obs.). April 29 (CG,MH,KJ,GL,DS,SSp,LW) was the arrival date for **Northern Parula** at YC while **Yellow Warblers** were first sighted 4/26 at both YC (EF,MF) and JV (CC,MH,LJ,TP,CT). IN yielded the first **Chestnut-sided** and **Magnolia Warblers** 5/2 (PJ). A single **Cape May Warbler** was found only at YC 5/10 (GL,GS) and 5/17 (NB). YC also produced the first **Black-throated Blue Warbler** 5/3 (LC,EF,MF,MH,BJ,MJ,JT,LW). The year's first **Yellow-rumped Warbler** was spotted 4/8 (LC,MH,LW) at YC; 1 at YC 5/25 (EF,MF) was a tad late. **Black-throated Green Warbler** appeared 4/16, both near SH (MH,RH) and at YC (MH,RH,FG,SH) while **Blackburnian Warbler** arrived 4/29 (CG,MH,KJ,GL,DS,SSp,LW), also at YC. CD yielded the first **Yellow-throated Warbler** 4/15 (LH,DL). **Pine Warbler** returned to a feeder near SH 3/18 (MH,RH,DL). Highlight of the PSO weekend was a **Kirtland's Warbler** observed at SGL 273 5/18 (CG,MH,TL,JT); the warbler was subsequently heard singing by SHo. **Prairie Warbler** arrived 4/26 (CG,MH,LJ,TP,CT) at JV. **Palm Warblers** moved through YC between 4/29 (CG,MH,KJ,GL,DS,SSp,LW) and 5/10 (GL,GS) with top count of 6 on 5/3 (LC,EF,MF,MH,BJ,MJ,JT,LW). **Bay-breasted Warblers** were noted between 5/8 (DL) and 5/20 (EF,SG,CG, MH,AJ,GL,JS,SS,JT,LW). First **Blackpoll Warbler** was sighted 5/13 (MH,JT) at YC; numbers built to 40+ by 5/25 (EF,MF) with a few individuals continuing into June. BS yielded the first **Cerulean Warbler** 5/5 (LC,CG,MH); CM, the first **Black-and-white Warbler** 4/27 (EB,RB); Nolo, the first **American Redstart** 5/2 (GL). A **Worm-eating Warbler** 5/5 (LC,CG,MH) was a first for BS; the PSO field trips yielded other individuals 5/18 at YC (GL,GS), CD (LC,RC,JK,TK,SHo), and SGL 273 (CG,MH,RH,TL,JSn,MSn,PS,SSp,JT,GZi). First **Ovenbird** was at JV 4/26 (CC,MH,LJ,TP,CT). A **Northern Waterthrush**, another new species for the park list, arrived at BS 5/6 (CG,MH) where it lingered through 5/25 (EF,MF). First **Louisiana Waterthrush** was seen at YC 4/4 (GL). **Kentucky Warbler** returned to BS 5/7 (MH). PJ documented the occurrence of a **Mourning Warbler** on the NAMC 5/10 in IN by

recording its song. **Common Yellowthroat** arrived 4/26 at JV (CC,MH,LJ,TP,CT); **Hooded Warbler**, 5/1 (EF,MF) at YC. More **Wilson's Warblers** were reported this spring than usual with first noted at BS 5/6 (CG,MH), up to 3 at YC 5/16 (MH,RH,SL,CR,CT,BW,DW), and last on 5/27 (CG,MH,SSp,JT) at YC. A **Canada Warbler** 5/13 (MH,JT) at YC and 5/18 (v.o.) at BS were amazingly the only reports. YC yielded the first **Yellow-breasted Chat** on 5/3 (LC,EF,MF,MH,BJ,MJ,JT,LW).

**Scarlet Tanager** returned to YC 5/1 (EF,MF). First **Eastern Towhees** were 2 at YC 3/18 (LC,MH,DJ,GL,SSp). Last **American Tree Sparrow** lingered till 4/12 (LH,LiH,BJ,SSp) at CF while first **Chipping Sparrow** was found 3/30 (MH,RH) near SH. The NAMC 5/10 (v.o.) yielded 7 **Vesper Sparrows**. One of the 2 **Savannah Sparrows** wintering at a Center Twp. feeder stayed till 3/15 (BM) while the first 4 returnees were logged near CM 4/13 (EB). Dates of return included 4/20 (MC) near JV for **Grasshopper Sparrow** and 4/26 (CC,MH,LJ,TP,CT) near JV for 5 **Henslow's Sparrows**. A **Fox Sparrow** which spent the winter near HC was last spotted 3/9 (LC); last migrant was seen 4/8 (LC,MH,LW) at YC. Only 2 **Lincoln's Sparrows** were noted, 1 on 5/10 (MSt,JT) in Washington Twp. and the other 5/18 (LC,RC,JK,TK,SHo) at CF. Reported from 8 areas of the county on 5/10 (v.o.), **White-throated Sparrow** was not found thereafter. A **White-crowned Sparrow** arrived at LV 4/23 (MC) and departed after 5/18 (EB) near CM. A singing **Dark-eyed Junco** at SGL 273 was the last report. **Rose-breasted Grosbeak** returned to feeders at Nolo (GL) and near SH (MH,RH), both 4/30. YC yielded the first **Indigo Buntings** 5/1 (EF,MF). The first 3 **Bobolinks** were found 5/9 (PS) in the northeastern part of the county; 17 was a good count in Pine Twp. 5/10 (GL,GS). First flock of 56 **Red-winged Blackbirds** arrived 3/4 (EB) near CM, and 3/15 (EB) produced the first **Eastern Meadowlark** at the same location. **Rusty Blackbirds** passed between 3/6 (GL) and 4/30 (EB). First **Common Grackle** stopped in Center Twp. 3/4 (BM). **Brown-headed Cowbirds** returned 4/8 to both YC (LC,MH,LW) and SH (MH,RH). **Orchard Oriole** resurfaced at YC 5/1 (EF,MF) but was noticeably absent thereafter in this park where it has nested in previous years. **Baltimore Orioles**, on the other hand, appeared in abundance with first reports 4/30 at YC (EF,DL) and at SH (MH,RH); at least 4 pairs were beginning nest building in the main recreational area of the park. Fifteen **Evening Grosbeaks** at Saltsburg 3/15 (AS) was the only report.

Observers: **Margaret & Roger Higbee, 3119 Creekside Road, Indiana 15701, (724) 354-3493, bcoriole@twd.net**, Moose Anderson, Alice Beatty, Dave Beatty, Amber Beaulé (ABe), Eli Beiler, Rachel Beiler, Bronnie Bekker, Fritz Bekker, Nick Bolgiano, Lee Carnahan, Roger Carnahan, Bob Cook, Ruth Cook, Carol Cummins, Dan Cunkelman, Marcy Cunkelman, Betsy Fetterman, Evelyn Fowles, Mike Fowles, Peter Gallardy, Ross Gallardy, Joyce Graff, Steve Graff, Carol Guba, Barb Haas, Frank Haas, Bob Henry, Jennie Henry, Margaret Higbee, Roger Higbee, Steve Hoffman (SHo), Frank Horvath, Sandra Horvath, Bob Jackman, Dory Jacobs, Anna Jennings, Pat Johnner, Linda Jones, Marie Jordan, Rudy Keller, Jan Kuehl, Tom Kuehl, Sherri LaBar, Gloria Lamer, Dennis Laufer, Tom Lord, Beth Marshall, Tom Pearson, Carol Reigle, Dave Rieger, John Salvetti, Matt Sarver, Jared Smelko (JSm), Julia Snickles (JSn), Monica Snickles (MSn), Patrick Snickles, Jack Solomon (JSO), Sue Solomon, Ann Speedy, Scott Speedy (SSp), Linda Stormer, Luke Stormer (LSt), Rodger Stormer, Mark Strittmatter (MSt), Georgette Syster, John Taylor, Carl Trout, Chris Turn, Linda Wagner, Brenda Watts, Don Watts, Greg Zawrotny, Gene Zielinski (GZi), various Observers (v.o.).

## *Jefferson County*

No Report  
No Compiler

## *Juniata County*

No Report  
Compiler: **Toby Petersheim, RR2, Box 539, Mifflintown, 17059**

## *Lackawanna County*

Locations: Ford's Pond (FP), Gravel Pond (GP)

Two **Common Loons** were at GP on 5/2, and 3 were there 5/8. A **Horned Grebe** was at GP 4/6, and a **Red-necked Grebe** was seen at Glenburn Pond 4/10. Six **Double-crested Cormorants** were at GP 4/6-16, and were last seen 5/16. **Great Blue Heron** was present from 4/18 into June in the county.

Waterfowl included a **Blue-winged Teal** 4/18 and 2 **Lesser Scaup** 4/6 at FP. Three **Bufflehead** were at GP on 4/6, and 5 were there 4/10. Nine **Common Merganser** were at GP from 4/6 through May.

An **Osprey** was at FP 5/8, along with a **Virginia Rail**. A **Virginia Rail** was also there 5/16. **Killdeer** were present in the county from 3/17 into June, and a **Spotted Sandpiper** was at FP 5/8.

**Eastern Kingbirds** and 3 **Warbling Vireos** were present from 5/25 into June. **Fish Crows** were present in Scranton throughout the period. On 4/18, 600 **Tree Swallows** were counted at FP & GP. Three **Barn Swallows** were at GP 4/29. Two **House Wren** were present 5/2. Two **Yellow Warblers** and a **Black-throated Green Warbler** were reported 5/2, and a **Black-and-white Warbler** 5/25. **American Redstart** was present from 5/2 through the period, and a **Wilson's Warbler** was at FP 5/25. **Scarlet Tanager** was present in the county from 5/2 through the end of the period.

Observers: **No County Compiler**, Bill Reid.

## *Lancaster County*

Locations: Susquehanna River, Conejohela Flats (SRCF), Susquehanna River, Long Level (SRLl), Susquehanna River, the 'Rocks' area (SRR), Middlecreek WMA (MC)

The wet and snowy winter turned into a cold and rainy spring. The defining ornithological event for Lancaster and many other counties was the large scale invasion of **Red-necked Grebes**. The grebes first appeared on the Susquehanna River at the very beginning of March and were seen there as late as 6/2. Between those times, grebes were seen at many places along the Susquehanna and places as diverse as MC and Greenfield Industrial Park. The highest count of **Red-necked Grebes** at one sight was a total of 50 at SRLl on 3/14 (DHe).

The wet spring also resulted in several fallouts of water birds on the Susquehanna River. A large variety of water birds was seen on 3/29 between the Susquehanna River at Marietta & SRLl. The most significant sightings were **Red-throated Loon**, 6 **Common Loon**, 60 **Horned Grebes**, 11 **Red-necked Grebes**, 12 **Canvasbacks**, 40 **Long-tailed Ducks** and 15 **Red-breasted Mergansers** (JH). That same day two **Little Gulls** were seen at SRLl with a record count of 4,000+ **Bonaparte's Gulls** (JH). The next day, the **Little Gulls** were still present and joined by a male **Surf Scoter** (TG, DHe, JH, EW). A second large fallout of water birds occurred on 4/5 at the same locations

and featured **Red-throated** and **Common Loons**, 4 **Black Scoter**, **Long-tailed Duck**, and 38 **Red-breasted Merganser**. Two **Little Gulls** were also present at this time at SRTL although it is unknown if they were the same or different birds from those the week before (JH). One of the more unusual waterfowl sightings was a very late **Common Goldeneye** at SRTL on 5/31 (BS).

**Cattle Egret** is seen most years although it is getting increasingly infrequent. This year's bird was found at Wood's Edge Pond on 4/30 (DHe, et al). The **Black-crowned Night Herons** did return to the colony at Reflections this year although the arrival was at least one week later than normal. **Glossy Ibis** were seen on several occasions this year and those sightings included 5 very early birds in a farm field near Muddy Run on 3/16 (LCA, MC). Another **Glossy Ibis** was found on 4/18 at Wood's Edge Pond (JH) and stayed until at least 4/22 when it was joined by two other dark ibis (DHe).

This year the **Snow Goose** numbers peaked at MC in the middle of March. This was a couple of weeks later than normal largely because of the heavy snow cover and the cold weather which kept the lakes frozen far later than normal. At least 4,000 **Tundra Swans** were at SRTL on 3/14 and at least 75,000 **Snow Geese** were present on March 14 & 15 at MC (DHe, JH, BC, m.obs.) As usual **Ross' Geese** were seen at MC and Muddy Run Pumped Storage Area on a number of occasions from 3/13-18 (TA, CB, DH, m.obs.). **Rough-legged Hawks** usually depart our area in March so a light phase bird seen near Peach Bottom on 4/12 was rather late (BS). **Merlin** are not as common in the spring, but one was seen at MC on 4/24 (TH) and at Safe Harbor on the North American Migration Count (NAMC) 5/10 (JH).

The wet and rainy spring produced some nice fallouts of shorebirds as well. Major movements occurred on 5/26 and 6/1. On 5/26, visits to SRCF and SRR produced near record spring counts of **Sanderling** and **Short-billed Dowitcher** as well as what was probably the record count of **Dunlin**. Sightings included 4 **Black-bellied Plover**, 15 **Semipalmated Plover**, 9 **Sanderling**, 40 **Semipalmated Sandpipers**, 170 **Least Sandpiper**, 253 **Dunlin**, 59 **Short-billed Dowitcher**, as well as 4 **Laughing Gull**, 8 **Caspian Terns**, 9 **Common Terns**, 4 **Forster's Tern**, 1 **Least Tern** and 2 **Black Terns** (JB, JH). On 6/1, visits to SRCF and SRR produced a record count of **Semipalmated Sandpipers** and a near record of **Common Terns**. Sightings included 3 **Black-bellied Plover**, 10 **Semipalmated Plover**, 1 **Greater Yellowlegs**, 13 **Ruddy Turnstone**, 2 **Sanderling**, 850 **Semipalmated Sandpiper**, 1 **Least Sandpiper**, 1 **White-rumped Sandpiper**, 40 **Dunlin**, 1 **Caspian Tern**, 50 **Common Tern**, 200 **Forster's Terns**, 1 **Least Tern** and 41 **Black Terns** (JB, DH, JH, m.obs.). Other significant shorebird sightings for the spring included **Whimbrel** at SRCF on 5/25 (DHe) and 6 **Red-necked Phalarope** 5/22 at SRR (JB). A **Red-necked Phalarope** was also found at MC and a male was seen on a pond just north of stop one from at least 6/2-4 (JK, m.obs.). There were some reports that a pair had been present at least a week prior to that.

The record for the spring's rarest bird probably goes to the **Black Skimmer** that made a one day appearance on the Susquehanna on 5/31. It ranged from SRCF to SRR and many people were fortunate enough to catch a glimpse (JB, m.obs.).

The wet weather also provided good viewing conditions for many of the songbird migrants that pass through our area. Most of the more common species were seen, but there were not a large number of rarities. Some of the more notable sightings included **Olive-sided Flycatcher** 5/10 and 5/19 (JH & JF) and **Golden-winged Warbler** on 5/10 (BC et al).

Observers: **Jonathan Heller, 206 Newcomer Rd., Mount Joy, 17552 (717) 653-5541, rlheller@paonline.com, Tom**

**Amico, Jerry Book, Carolyn Blatchley, Devin Bosler, Justin Bosler (JBo), Bruce Carl, Lorraine Cashman (LCA), Larry Coble, Mickey Cashman, Jeff Fisher, Ron Ferry, Scott Fisher, Tom Garner, Dan Heathcote (DHe), Deuane Hoffman, Tom Hopson, Jason Horn (JHo), Jeff Karnicky, Andy McGann, Ann Mease (AMe), Randy Miller, Harold Morrin, Peter Robinson, Bob Schutsky, Nancy Schutsky, Jim Smith, Dan Snell, Rosemary Spreha, Glenn Stauffer, Susan Wheeler, Dave Wilton, Eric Witmer.**

### **Lawrence County**

No Report

Compiler: **Randy Stringer, 409 Shady Drive, Grove City, 16127, rcstringer@gcc.edu**

### **Lebanon County**

Locations: Memorial Lake State Park (MLSP), Middlecreek Wildlife Management Area (MC), State Game Lands 145 (SGL 145).

A **Red-throated Loon** at MLSP on 4/1 was the first spring record for Leb. Co. (GB). **Common Loons** were seen from 3/29 (RS) to 5/10 (BRW) with a high count of only 8 on 3/29, all sightings at MLSP. **Horned Grebes** were found from 3/29 (RS) to 4/11 (m.obs.), all at MLSP. **Red-necked Grebes** were found on most larger bodies of water this period. Fourteen were found at the Millardsville Quarry on 3/14 (GH) for a new county high. The last one was reported on 5/14 (BC) at the Myerstown Quarry for a new late date. A possible **Eared Grebe** was reported from MLSP on 4/7 in a snow storm. It could not be found the next day (TH).

A **Double-crested Cormorant** on 4/2 at MLSP set a new early date (GB). A **Black Vulture** nest with 2 eggs was found this spring on SGL 145 in an old outhouse (GS). This is the first breeding record for Lebanon Co.

**Snow Goose** numbers peaked on 3/16 with 150,000 at MC (m.obs.). The last **Ross's Goose** was seen on 3/15 at MC (JH). A count of 65 **Wood Ducks** on 3/29 at MLSP was nice (BRW). A **Blue-winged Teal** on 5/10 at the head of waters of the Quittapahilla Creek set a new late date (FH). **Northern Shovelers** were reported from only 4/6 (RCM) to 4/17 (GB), all sightings at MC. **Ring-necked Ducks** were last seen at MC with 3 on 5/10 (RCM). **Greater Scaup** were found from 3/29 at MC (JH) to 4/6 at MLSP with 18 (RCM). **White-winged Scoters** were seen on 3 different dates at MLSP. Two were seen on 3/29 (RS), 1 on 4/3 (BW), and 2 on 4/26 (RCM, KM). Seven **Long-tailed Ducks** and 100 **Buffleheads** were seen at MLSP on 3/29 (BRW). A pair of **Hooded Mergansers** were found up to 5/10 on SGL 145 until **European Starlings** took over all 3 Wood Duck boxes (RCM). A pair of **Common Mergansers** along the Swatora Creek on 5/10 was an interesting find (GB, RL).

**Bald Eagle** sightings away from MC were on 3/14 when an immature landed in a yard (MD). One was observed on 3/17 in Myerstown (BRW). **Virginia Rails** made a good showing on SGL 145 from 5/4 (RM) until June with 4 being heard (mob). Lebanon Co. has only singles being reported with no breeding records. **Sora** were also found from 5/4 on with 2 being seen or heard (m.obs.). Shorebirds found at Reistville included 2 early **Least Sandpipers** on 4/30. On 5/3 an early **Semipalmated Plover**, 29 **Pectoral Sandpipers** (a new high count) and 3 early **Dunlins** were present (BC). Two **Sandhill Cranes** were seen flying north at MC (second hand report from RM). A **Caspian Tern** was seen flying over a corn field at MC on 4/13 (RCM).

**Barn Owls** were reported with 4 young at SGL 145 on 5/30 (RM). They have been using the barn for 3 years. An **Eastern Wood-pewee** on 4/27 at SGL 145 tied an early date (RCM). **Willow Flycatchers** were late this year. The first on was only reported on 5/10 (GB, RL). Fourteen **White-eyed Vireo** on 5/10 set a new county high (NAMC). **Red-eyed Vireos** were in low numbers with only 137 being recorded on 5/10 (NAMC). Two **Common Ravens** were reported around Camp Shand until mid March (SW). **Purple Martins** returned to Fontana on 4/6, but a late snow in April starved some (JHa). **Tree Swallows** arrived by 3/16 at MC (RCM).

**Winter Wrens** were found in Stony Valley on 5/31 with 2 singing (RCM). **Ruby-crowned Kinglets** were found until 5/10 with 13 on the NAMC. A total of 47 **Blue-gray Gnatcatchers** were found on 5/10 for a new high (NAMC).

Two **Gray-cheeked Thrushes** were found at SGL 145 on 5/10 (RCM). A nocturnal flight of **Swainson's Thrush** was recorded on 5/10 at SGL 145 between 4-5 a.m. with 43 being heard. Six **Veery** and 8 **Wood Thrush** and several more flight notes of mystery birds were also heard. A total of 468 **Gray Catbirds** on the NAMC set a new high count.

High counts for warblers were set on 5/10 on the NAMC included: **Nashville** 15, **Northern Parula** 14, **Yellow** 153, **Chestnut-sided** 19, **Black-throated Blue** 54, **Blackburnian** 11, **American Redstart** 70, **Ovenbird** 455, and **Common Yellowthroat** 222. **Palm Warblers** were found from 4/9 (SW) to 5/10 (CB, GBW); the 5/10 sighting setting a new late date. A **Cerulean Warbler** was found at Quitty Park on 5/9 (GB). Six **Wilson's Warbler** on 5/10 tied the county high. A total of 56 **Scarlet Tanager** on 5/10 was a good count (NAMC).

Nine **Savannah Sparrow** on 4/13 at MC were feeding in a stone parking lot (RCM). **Fox Sparrows** were reported until 4/12 on SGL 145 (RCM). Only 1 **Lincoln's Sparrow** was seen on 5/10 at SGL 145 (RCM). **White-throated Sparrows** were seen in good numbers late with 297 on 5/10 (NAMC) and 50 on 5/14 at SGL 145 to tie a late date. Eight **White-crowned Sparrows** were seen on 5/10 at SGL 145 (RCM).

Fifteen **Purple Finch** were found on 5/10 at a feeder near Camp Shand (SW). Ten **White-winged Crossbills** were found at SGL 145 on 4/12 (RCM).

Observers: **Randy Miller, 607 Woodland Dr., Manheim 17545 (717) 664-3778**, Mike Adams, Chuck Berthoud, Michael Blake, Gerry Boltz, Greg Burgdorf, Vera Freed, Jeff Hackman, Fritz Heilman, Jane Light, Ken Light, Richard Light, Bill Seifert, Rosemary Spreha, Bruce Weaver, David Wheeler, Susan Wheeler, North American Migration Count (NAMC).

### *Lehigh County*

A couple of highlights for Lehigh County for Spring were the North American Migration Count (NAMC) that took place on 5/10 and the annual Lehigh Valley Audubon trip to Leaser Lake on 5/17. During the NAMC a total of 1,926 individual birds comprising 98 species were seen. Some of the spots birded were Jordan Creek Parkway, Leaser Lake, and game lands 205. Thanks to Bernie and Pauline Morris and Jane Ostroski for their participation. The Leaser Lake trip produced 79 species including 15 species of warblers.

Two **Red-necked Grebes** (MS) were seen on the Lehigh River near Allentown on 3/5. Three more **Red-necked Grebes** (TW) were seen 4/28 also along this stretch of the Lehigh River near Allentown. An early **Great Egret** (JL) was along Spring Creek on 4/12 near Alburdis. A **Great Egret** (JL) was also seen closer to Macungie on Spring Creek on 5/11. An **American Bittern** (JE) was seen flying over the Fogelsville Dam and then land in the swampy area on 5/23. The bittern was also seen on 5/25 - 29.

**Tundra Swans** were in a flooded field near Alburdis on 3/16 (BM, PM). Some of the swans were seen walking on dry land. Two **Wood Ducks** were seen at the Fogelsville Quarry on 3/16 (BM, PM). Also at the Quarry were **Ring-necked Ducks** on 3/25 (JL). **Hooded** and **Common Mergansers** were seen on the Lehigh River Canal Park on 3/13 (BM, PM). **Common Mergansers** were observed at the Fogelsville Dam on 3/15, 3/25, and 4/6 (JL). On 3/25 a **Ruddy Duck** was at the Fogelsville Quarry (JL).

While on a picnic at Leaser Lake, an adult **Bald Eagle** and family was observed on 5/25 (JL). A **Northern Harrier** was seen on 3/16 near Breiningsville (BM, PM). An adult **Cooper's Hawk** was at backyard feeders in Lower Macungie Township on 3/9 (JL), and 6 **Broad-winged Hawks** were seen 4/20 near Macungie (BM, PM). A **Rough-legged Hawk** was seen hovering over game lands 205 on 4/6 (JL).

A fly-by **Sandhill Crane** was over Lehigh Furnace Gap on 4/28 (CE, RS, SS). **Semipalmated Plover** (m.obs.) was seen during the Audubon trip to Leaser Lake on 5/17. A couple of days later on 5/19 at Leaser Lake a **Dunlin** was spotted (FB). **Yellow-billed Cuckoos** were near Macungie on 5/14 (BM, PM) and also at Leaser Lake on 5/17 (m.obs.). **Common Nighthawks** were passing through on 5/23 (JL) in Lower Macungie Township and in Allentown on 5/29 (BM, PM).

A very vocal **Alder Flycatcher** was seen near the shooting range on game lands 205 (JL). **White-eyed Vireos** were heard on 5/10 on game lands 205 (JL) and also were present near Macungie on 5/4 (BM, PM). A **Philadelphia Vireo** was along Spring Creek on 5/13 in Lower Macungie Township (JL). **Northern Rough-winged Swallows** were regular sightings flying above Spring Creek during May (JL). They were also seen 5/17 (m.obs.) during the Audubon trip to Leaser Lake. On 5/5 near Macungie a **Gray-cheeked Thrush** was seen (BM, PM). Also near Macungie was a **Swainson's Thrush** (BM, PM) and 1 was singing along Spring Creek in Lower Macungie Township on 5/21 (JL).

**Blue-winged Warblers** were along Schoolhouse Lane in Lower Milford Township on 5/3 (JL). **Blue-winged Warblers** were also at game lands on 5/4 (JL) and 4 were heard on 5/10 (JL) also on the game lands. The only **Golden-winged Warbler** reported this spring was seen on 5/9 in Salisbury Township just south of Allentown on South Mountain (JS, KS). A **Tennessee Warbler** (m.obs.) was seen on 5/17 at Leaser Lake. On game lands 205 a **Nashville Warbler** was seen on 5/4 (JL), **Northern Parula** near Macungie on 5/6 (BM, PM). Bernie and Pauline indicated that they had lots of **Northern Parulas** in mid-May. **Northern Parulas** were also seen on game lands 205 on 5/10 (JL), along Spring Creek on 5/11 (JL) and on the Audubon trip to Leaser Lake on 5/17 (m.obs.). **Chestnut-sided Warbler** was seen along Spring Creek on 5/14 (JL) and on the Audubon trip to Leaser Lake on 5/17 (m.obs.). **Magnolia Warbler** seen near Schoolhouse Lane in Lower Milford Township on 5/3 and Spring Creek on 5/9 (JL). A **Black-throated Blue Warbler** was seen on game lands 205 on 5/4 (JL), along Spring Creek on 5/11 (JL), on 5/17 in Salisbury Township (JL), and on the Audubon trip to Leaser Lake on 5/17 (m.obs.). On 5/4 a **Black-throated Green Warbler** was heard in game lands 205 (JL), on 5/9 along Spring Creek (JL) and 5/17 (m.obs.) at Leaser Lake. A **Blackburnian Warbler** was seen near Spring Creek on 5/9 (JL) and the Audubon trip to Leaser Lake on 5/17 (mobs). A **Pine Warbler** was seen on a suet log on 4/13 along Spring Creek (JL). **Blackpoll Warblers** were heard daily above Spring Creek from 5/13 to 5/24 (JL). **Cerulean Warbler** were observed on Blue Mountain on the Audubon Leaser Lake trip on 5/17 (m. obs.). The lone report of a **Prothonotary Warbler** was at the Pool Wildlife Sanctuary 4/29 (JF). **Louisiana Waterthrushes** were near Macungie on 4/13 (BM, PM) and one was also on game lands the same day

(JL). A **Hooded Warbler** was seen on 5/13 (BM, PM); it is rare to see **Hooded Warblers** during migration. A **Wilson's Warbler** was near Macungie 5/14 (BM, PM) and a singing **Wilson's Warbler** was along Spring Creek 5/22 (JL). A **Canada Warbler** (JL) was along Spring Creek on 5/16 and Leaser Lake on 5/17 (m.obs.).

A **Lincoln's Sparrow** was seen near Macungie on 5/7 (BM, PM). **White-crowned Sparrows** were seen on 5/5 near New Tripoli (JO), 5/7 near Macungie (BM, PM) and along Spring Creek on 5/9 (JL). Five **Rose-breasted Grosbeaks** were at a feeder near New Tripoli on 5/7 (JO). A male **Purple Finch** was seen at a feeder along Spring Creek on 4/6 (JL).

Observers: **Jon Levin, 1899 Aster Rd, Macungie 18062, (610) 366-9996, levinjl@planet-save.com**, Fritz Brock, Catherine Elwell, Jennifer Eastman, James Foster, Bernie Morris, Pauline Morris, Jane Ostroski, Jill Stanley, Mike Schall, Richard Sharadin, Sue Schmoyer, Todd Watkins, many observers (m.obs.).

### *Luzerne County*

The 2003 Spring Migration Count in Luzerne County held on 5/10 totaled an outstanding 157 species. Unusual species were **Common Tern**, **White-eyed Vireo**, **Yellow-throated Warbler** and late **Palm Warbler**.

The first **Red-throated Loon** report was by Bill Reid on 3/31 at Harveys Lake, and another flock of 4 **Red-throated Loon** were reported on 5/17 at Harveys Lake. **American Bittern** at the PP&L Riverlands on 4/14 by Jim Hoyson was a good find. There were very few reports of **Tundra Swan** and **Snow Geese** this spring. A very late **Rough-legged Hawk** was seen by Peter Carlin on 4/12 in Dupont. Bob Wasilewski has been providing excellent up-to-date reports of our **Peregrine Falcons** that breed at 2 sites in Luzerne County.

**Wilson's Snipe** appear to be probable breeders at Lee Swamp. On several occasions I had heard the territorial "wickawicka" calls from several male snipe. An **Olive-sided Flycatcher** was seen at Kirby Park on 5/25 by Sandy Goodwin and Bob Wasilewski. It has been reported that flycatcher species were lacking in numbers due to the cold wet and very long spring. Jim Hoyson had excellent looks at a singing **Kentucky Warbler** at Kirby Park on 5/11. A **Prothonotary Warbler** was reported at the PP&L Riverlands on 5/4. **White-rumped** and **Baird's Sandpipers** were found at Plymouth Flats on 5/12 by Rick Koval.

A very unusual male **Monk Parakeet** has been occupying a large nest in Wilkes Barre for most of the year.

Bill Reid heard a **Purple Finch** singing in downtown Wilkes Barre and also had the only **Common Redpoll** report this year on 4/21, also in Wilkes Barre.

On 5/16 Rick Koval and Stan Galenty established a new Luzerne County Big Day record of 149 species.

Observers: **Rick Koval, 305 William St., Plains 18705, (570) 829-4381, unibird@aol.com**, Mark Blauer, Susan Blauer, Peter Carlin, Stan Galenty, Alan Gregory, Sandy Goodwin, Doug Gross, Bob Houck, Nancy Houck, Jim Hoyson, Edwin Johnson, Rick Koval, Sam Merrill, Bill Reid, Jim Shoemaker, Erick Stull.

### *Lycoming County*

No Report

Compiler: **Wes Egli, 105 Sherman St., Plains 18705 (570) 829-4381**

*Note: New compiler beginning with the Fall Migration season: Steve Pinkerton, 1852 Log-Run Road, Williamsport, PA 17701, (570) 494-1308, stevepinkerton@suscom.net*

### *McKean County*

The winter season ended and spring just took-off in McKean County. There have also been more observers reporting what they have seen, so there have been more things sighted. The **Golden Eagle** sightings from the end of the winter season continued with the last one being observed on 3/28 near Marshburg. The light-phased **Rough-legged Hawk** remained near Turtle Point until 4/13. **Turkey Vultures** returned on 3/12 with 55 seen near Marshburg on 3/20.

Cormorants started showing up on 4/1 with a peak of 21 **Double-crested** on 4/10. An immature **Great Cormorant** was seen with the **Double-crested Cormorants** from 4/8 until 4/10. The birds were seen on both sides of the bridge at Redbridge on Kinzua Lake.

Waterfowl migration took off in the second week of March and continued until the second week of April. Twenty-three species of waterfowl were observed with some interesting high counts occurring. On 3/13, Len Groshek reported 7 **Gadwalls** and 2 **Horned Grebes** on Potato Creek. **Red-necked Grebes** started to show up in the county on small creeks on 3/14 and continued in the county until June 1. The first and last **Red-necked Grebe** were on the same spot at the confluence of the Tunagawanut Creek branches in Bradford. Len Groshek found 3 **Northern Shovelers** in floodwaters near Farmer's Valley and also found a **Northern Shrike** near Crosby on 3/19. On 3/24, 45 **Tundra Swans**, 1 **Surf Scoter** and 19 **Long-tailed Ducks** were seen on Kinzua Lake near Redbridge. The **Long-tailed Duck** numbers peaked on 3/27 with 47 being counted. On the same day, scaup numbers peaked with 64 **Greater Scaup**, 122 **Lesser Scaup** and over 150 unidentified scaup species present.

Shorebirds started to show up with Lisa Fedak sighting the first **Killdeer** in Bradford on 3/11. Near Eldred, shorebirds started to show up on 5/3 and were recorded until 5/14 in the flooded grassy wetlands near Bullis Mills. The birds were observed walking and feeding on the floating vegetation mats in about 1 ½ feet of water. **Greater and Lesser Yellowlegs**, **Spotted Sandpiper**, **Solitary Sandpiper**, **Least Sandpiper**, **Dunlin**, and **Pectoral Sandpipers** were observed. **Wilson's Snipe** were still winnowing near Bullis Mills as of 5/31 and are presumed to be breeding in the area, but haven't been confirmed by me thus far. A lone **Upland Sandpiper** was heard only on 5/10 near Anin Creek (FL, MG, JF).

A **Great Black-backed Gull** was seen on Kinzua Lake near Redbridge 3/24. On 4/4 near Redbridge, there were over 170 **Bonaparte's Gulls**, 57 **Ring-billed Gulls**, 1 **Herring Gull**, and at least 1, possibly 2 **Little Gulls**. On 4/14, an **Iceland Gull** was found in the same area that looked to be a second year bird. **Forster's Terns** were seen at Redbridge from 4/28 to 5/5. A **Caspian Tern** was observed in the same area on 5/7 and a **Black Tern** was observed there on 5/15.

**Common Nighthawks** returned to Bradford on 5/10, and the only report of a **Whip-poor-will** was near Lewis Run on 5/31. Tom Raught Jr. helped to find a **Northern Saw-whet Owl** and a **Merlin** at Windfall Valley near the New York state line while scouting for **Wild Turkey** on 4/25, and on 5/3 helped to find **Cerulean Warbler** in the same location with about 15 individuals being seen. Thrushes also seemed a little earlier than elsewhere in this location.

The single best coverage day in the area was the NAMC on 5/10. Six Volunteers spent 21 hours covering the county and came up with 138 species and over 3,000 individual birds. Ellen Partridge observed her feeders near Mt. Jewett. Louise

McCormack watched her feeders and took a hike nearby. Dennis Frame birded the eastern end of the county near Eldred. Francie Long and Merrill Gonzalez went with me and took photographs and wrote a nice article about the NAMC in the Bradford Era that ran on 5/17. Some interesting sightings and numbers of that day were 1 **Tundra Swan**, 2 **Northern Pintail**, 3 **Virginia Rail**, 2 **Sora**, 28 **Wilson's Snipe**, 2 **Least Sandpiper**, 16 **Solitary Sandpiper**, 29 **American Woodcock**, 15 **Barred Owl**, 3 **Northern Saw-whet Owl**, 41 **Yellow-bellied Sapsucker**, 31 **Least Flycatcher**, 5 **Warbling Vireo**, 8 **Blue-winged Warbler**, 171 **Black-throated Green Warbler**, 109 **Blackburnian Warbler**, 53 **Swamp Sparrow**, and 1 **Grasshopper Sparrow**.

**Olive-sided Flycatchers** did not seem as numerous this year as in the past, but were recorded sporadically from 5/9 to 5/30 at various locations. **Yellow-bellied Flycatchers** have not been found as of this writing this year. **Purple Martins** were once again observed in migration, from 4/24 until 5/10, but a nesting colony has not been located.

Warblers made a good push into and through the county with **Orange-crowned Warbler** being seen at two locations in Bradford on the same morning (5/26)--Crooker House Road and Race Street. **Blackpoll Warblers** were observed from 5/15 until 6/2. Twenty-eight species of warblers were observed in McKean County this quarter!

Thank you everyone for birding more this quarter and helping out a great deal. Keep up the good birding work!

Observers: **John Fedak, 26 Race St., Bradford 16701, (814) 275-4086, jfedak@charter.net**, Lisa Fedak, Dennis Frame, Merrill Gonzalez, Len Groshek, Francie Long, Louise McCormack, Ellen Partridge, Tom Raught Jr.

### **Mercer County**

Location: Shenango River Reservoir (SRR)

Near the SRR, a pair of **Osprey** built a nest on a wooden 35 ft. utility pole, which was 35 ft. from a two lane road. The power company, fearing a shorting-out problem from dangling sticks, removed the nest 4/9, and left a red highway cone in its place. They erected a new nesting platform directly across the road from the destroyed nest. However, the Ospreys rejected this new platform. Probably the same pair tried nesting on top of two nearby water towers. Being circular and slippery, these tower efforts failed. The present whereabouts of this ill-fated pair are unknown.

A second county record was 1 **Red-necked Grebe** 3/26 on Sandy Lake. (Troyer Family).

On 3/11, 30 **Tundra Swan** headed north over SRR (totally frozen up) on exactly the same flight path taken south last fall. Two lingering **Tundra Swan** were on the SRR propagation ponds 4/26-5/17. Documentation was sent to PORC on the **Ross's Goose** seen feeding in a harvested corn field with a flock of **Canada Geese** 3/22-23 on Line Rd. (TF). Fifty plus **Long-tailed Duck** rested on Lake Wilhelm 3/26 (TF). Sandy Lake also was the site for 1 adult male **Surf Scoter** 4/5 for a first county record, plus an adult female **White-winged Scoter** 4/9-12 (both TF).

A group of 22+ **Broad-winged Hawk** kettling over Williamson Rd. 5/20 at 6:45 pm was noteworthy for this county (TF). Two **Bald Eagle** chick in the nest at the Headquarters Bldg. on W. Lake Rd. are now close to fledging.

There were continued sightings of **Sandhill Crane** at Williamson Road 3/15- 4/5 (25) (TF). And yet another first county record, thanks to the Troyers, was a **Lesser Black-backed Gull** in company with 3 **Ring-billed Gull** on 4/8 at Lake Wilhelm. One **Short-eared Owl** was at Williamson Road

on 3/3. It was joined by a second 3/10 (TF). An **Olive-sided Flycatcher** was a great find 5/18 at Nicklin Lane (TF).

Of the 26 warbler species reported, the best news was of the 7 singing **Cerulean Warbler** heard at the Big Bend area of SRR on 5/10, and of a possible nesting **Prothonotary Warbler** 5/10-13 at the Shenango River, east of the reservoir.

Observers: **Marty McKay, 841 East Lake Rd, Transfer, 16154 (724) 962-7476**, Suzanne Butcher, Marvin Byler, Troyer Family (Allen Troyer, Daniel Troyer, Jr., Eli Troyer, Ervin Troyer, Harvey Troyer, Jerry Troyer, Melvin Troyer, Neil Troyer).

### **Mifflin County**

On 3/13 **Herring** and **Ring-billed Gulls** and 8 **Red-necked Grebes** were seen on the Juniata River at Lewistown (JS, MK). Hundreds of **Tundra Swans** and thousands of **Canada** and **Snow Geese** were seen flying north over Belleville on 3/19 (JS). Lots of waterfowl was present along the Juniata River again this year between McVeytown and Newton Hamilton. **Horned** and **Red-necked Grebe**, **Common Goldeneyes**, **Long-tailed Duck**, **Common Merganser**, **Red-breasted Merganser**, **Northern Pintail**, **White-winged Scoter**, **Ring-necked Duck**, and **Greater** and **Lesser Scaup** were seen as well as the more common species. (MK). **Ruddy Ducks** and **Greater** and **Lesser Scaup** were seen quite often this spring on a local pond close to J. Irvin's farm. (JS, JIZ).

On 4/27 a dark-phase **Rough-legged Hawk** was seen on top of Jack's Mountain at the hawkwatch. It was very low, just soaring around (JS, LP). A **Bald Eagle** flew right past Margaret Kenep's house on 5/10. It was an immature I saw it while sitting on my back porch (McVeytown) counting birds for the NAMC. It was very low (BK). On 5/14 an immature **Bald Eagle** was seen flying low over Belleville (JS).

On 3/30 J. Irvin Zook saw over 300 **American Pipits** on his farm along Rt. 305 at the edge of Belleville.

We had a pretty high number of species on the NAMC for Mifflin Co. despite all the rain. It quit raining in the afternoon so we had a fairly good day. Some notable species were: **Solitary Sandpiper**, **Red-headed Woodpecker**, **White-eyed**, **Yellow-throated**, and **Blue-headed Vireo**, **Nashville**, **Prairie**, **Hooded**, **Yellow-throated**, **Swainson's**, **Blackburnian**, and **Worm-eating Warblers**, **Orchard Oriole**, **Bobolinks** and **Grasshopper Sparrow** (IB, MK, JS, JIZ).

The **Swainson's Warbler** above was seen by Irvan Byler Jr. and Irvan Byler Sr. They heard it singing, and the song exactly matched the Swainson's song on the tape. They saw it in their area for the past few years along Stone Mountain close to Belleville. Two pair of **Orchard Orioles** are nesting again at the David Swarey residence along Jack's Mountain close to Belleville. They've nested here for the past 2 years. (JS).

Here is a note from Margaret Kenep on the Bluebird trails she's monitoring this year: "I have an established trail at Strodes Mills School. That trail has twelve boxes. Also a local trail in Cratton Twp. with 25 boxes. I'm also monitoring 26 boxes at the Lewistown Country Club."

Observers: **Jesse Swarey, 59 Cortland Apple Ln., Belleville 17004, (717) 935-9910**, Ivan Byler Jr., Ivan Byler Sr., Robert Fowles, Elaine Harmon, Jim Harmon, Rebecca Harmon, Bill Kauffman, Margaret Kenep, Marilyn Miller, Louie Peight, J. Irvin Zook, Sally Zook.

### **Monroe County**

Locations: Delaware Water Gap National Recreation Area (DWGNRA), Monroe County Environmental Education Center (MCEEC)

The spring was marked by a snowy and cold first half of March followed by more seasonable, if somewhat wet, weather the rest of the period. Highlights included the continuing presence of **Peregrine Falcons** in the Delaware Water Gap, the Brodheadsville **Snowy Owl**, and a stunning **Yellow-headed Blackbird** in Tobyhanna.

Pocono Avian Research Center's (PARC) Darryl Speicher conducted a solo Monroe County Big Day 5/18 as a PARC fundraiser, and tallied an impressive 119 species. Any DS sightings dated 5/18 are from this Big Day.

A "thunder-pumping" **American Bittern** thrilled DS in a DWGNRA wetland 5/18 near Bushkill. A previously unknown **Great Blue Heron** rookery was reported by a turkey hunter in May in DWGNRA (CT). About 20 active nests were observed. In the DWGNRA headquarters swamp near Bushkill, a female **Hooded Merganser** was seen 5/18 with 22 young, 2 of which appeared to be Wood Ducks (DS).

The Brodhead Creek **Bald Eagle** nest was occupied through the period (DS). Only one **Peregrine Falcon** remained into March from the pair originally seen in January and February on the Mt. Minsi cliffs in the Delaware Water Gap on the Monroe-Northampton county line in DWGNRA (JK, AA, m.obs.). In late March this Peregrine, an adult male, was joined by an immature-plumaged female Peregrine. This pair remained through the period and was observed copulating on different occasions but did not successfully nest.

The last date received for the Brodheadsville **Snowy Owl** was 3/22 (CH) and a **Northern Saw-whet Owl** was a nice discovery at Skytop 3/12 (JS). **Whip-poor-wills** were heard 5/18 at Long Pond (DS). The first report of **Ruby-throated Hummingbird** was 4/28 at MCEEC (BH). Two pairs of **Red-headed Woodpeckers** were seen 5/18 in DWGNRA's headquarters swamp (DS). A PARC bird walk 5/2 in Pinebrook Park along the Brodhead Creek produced 50 spp. including a **Yellow-bellied Sapsucker** and 9 spp. of warblers (DS). The first **Eastern Phoebe** was found near Marshall's Creek 3/25 and the Mt. Minsi **Common Raven** nest in DWGNRA fledged 4 young 5/4 (BH). **Purple Martins** occupied a house once again in downtown East Stroudsburg, and **Bank Swallow** colonies were reported from the Bushkill and Blakeslee areas 5/18 (DS). Nesting **Cliff Swallows** were on the fieldhouse at the Stroudsburg high school football stadium 5/18 (DS) and at a Blakeslee shopping plaza at the intersection of routes 115 and 940.

A late **Ruby-crowned Kinglet** was found in DWGNRA 5/18 near Bushkill (DS). A large movement of warblers was observed at MCEEC 5/9 with 14 spp. recorded (BH, DS). DS reported on his 5/18 big day that **Magnolia Warbler** was widespread and one of the most common birds of the day. A single **Lincoln's Sparrow** was at MCEEC 5/9 and a **White-crowned Sparrow** was at the same location to 5/13 (BH). A tantalizing report of a possible **Nelson's Sharp-tailed Sparrow** in Tannersville Bog 4/16 was received from Terry Master. Subsequent searches could not re-locate the bird.

MCEEC received a phone call 5/13 from Betty Knecht of Tobyhanna reporting an adult male **Yellow-headed Blackbird** at her feeders. BH was able to see the bird early that same evening to document the sighting (details sent to PORC). The bird was never seen again after that date.

Observers: **Brian Hardiman, MCEEC, 8050 Running Valley Rd, Stroudsburg 18360, (570) 629-3061, hardiman@nac.net**, At Ambler, Claus Herrmann, Jacki

Katzmire, Betty Knecht, Terry Master, John Serrao, Darryl Speicher, Craig Todd.

### Montgomery County

Locations: Green Lane Reservoir (GLR), Unami Creek Valley (UCV), Upper Gwynedd Township (UGT), Upper Perkiomen Valley Park (UPVP)

The spring season was characterized by above average precipitation and below average temperatures – the complete inverse of Spring 2002! In what could be termed another strange quarter, *at least* 3 record-early dates and one record-late date were established.

**Common Loon** were surprisingly scarce, given the number and intensity of rainfall events. Green Lane Reservoir's high count was an under-whelming 18 birds 4/9 (KC). One bird in basic plumage was at Knight Rd, GLR on the unlikely date of 5/29 (GAF). Single **Red-throated Loon** were reported at GLR 4/5 and 5/3 (SG). The much-storied **Red-necked Grebe** invasion finally arrived (albeit on a small scale) between 3/22 and 4/11 with a maximum of 3 birds (GF, SG, m.obs.). **Double-crested Cormorant** was observed on the *record-early date* of 3/19 (KC) and reached a high count of 120 + at Walt Road 4/27 (GAF). Smaller numbers remained through the end of the period. Wading birds of note included a *record-early* **American Bittern** at GLR 3/23 (AC). A season high of 3 **Great Egret** was at Walt Road, GLR 5/4 (GAF).

Waterfowl variety was about average at 23 species reported. Highlights included a high of 80 **Tundra Swan** at GLR 3/22 (GAF) and 3 others on the *record-late date* 4/20 (GAF, m.obs.). An impressive 225 **Northern Pintail** were at Walt Rd, GLR 3/13 (GAF). Other highlights were a male **Greater Scaup** at GLR 4/12 and 20 Canvasback there 3/9 (GAF).

**Red-breasted Merganser** reports of between 1 and 3 individuals were scattered around between 3/14 and 4/9 at GLR (SG, GAF, KC).

Our biggest raptor story was the failure of GLR's **Bald Eagle** nest for the second consecutive year. For the few readers who missed the unfortunate story, two persons on all-terrain vehicles ("ATV's") drove their vehicles near the nest tree, causing the adults birds to flee the area. A subsequent raid by crows resulted in the demise of the week old chick(s). The worst part of the story is that the nest area was *clearly posted against all entry* but to no avail. If this event has any "good news" it would be that the perpetrators were apprehended and plead guilty to several summary offenses. Each received a fine of \$1000, loss of hunting privileges for one year and 40 hours of community service. Many local residents thought this is a small price to pay, considering the offense.

On a much brighter note, other raptor highlights a dark-morph **Rough-legged Hawk** at Church Road, GLR 3/8 (PGS, m.obs.) and a **Merlin** at UPVP 4/24 (GAF). A **Red-shouldered Hawk** was well seen (and heard) at Walt Road through March (m. obs.), but one at UPVP 5/20 was most unexpected (KC). It would be great to have them return as breeders in our area!

Given the extremely high water at GLR and elsewhere, it is little surprise that shorebirds were scarce (a total of only 5 species were reported for the spring season!). A high of 12 **American Woodcock** were displaying near GLR 3/16 (GAF), and another 3 birds were daytime flushes at GLR 3/18 (KC, AC). A dozen **Wilson's Snipe** were also seen on the latter date.

In a place not known for its gulls, a mind-boggling 50,000 + **Ring-billed Gull** over Walt Road, GLR on 3/17 was a big surprise (GAF)! (Please Note - I have been assured that *green beer* had nothing to do with this count on what could be termed a suspicious date!) **Bonaparte's Gull** at Walt Road reached a

maximum of 29 on 4/16 (KC). Two **Forster's Tern** was at GLR 5/10 and another on 5/14 (GAF, KC).

Up to 6 **Common Nighthawk** were seen and heard at mid-day in bright sunshine 5/20, 5/27 and 5/28 (KC). Having seen this a few other times at GLR, I have to wonder if this behavior is in response to the series of cool, rainy nights that preceded these daylight foraging sessions

An **Olive-sided Flycatcher** was seen in the Unami Creek Valley 5/25 in the same dead tree-top on nearly the same date as one last year (KC). **Least Flycatcher** is an easy bird to miss in migration here, but George Franchois had singles at two different GLR locations 5/14 and 5/16 (GAF). The **Northern Shrike** reported at GLR last quarter remained until about 3/19 (m.obs.). A **Northern Rough-winged Swallow** at UPVP 3/24 was yet another *record-early date* (KC).

**Swainson's Thrush** remained a tough bird to find with observations of single birds in Upper Gwynedd Township 5/12 and UCV 5/15 (AM, JM, GAF). **Winter Wren** was in the UCV 4/14 and 4/24 (GAF).

Warblers had their best showing in recent years with 32 species reported. Some highlights included 2 **Golden-winged** at Valley Forge National Park 5/4 (SG), **Nashville** at both UCV and UGT (GAF, AM, JM), **Cape May** near GLR 5/5 (SG), **Cerulean** at UCV 4/30 and UGT 5/7 (AM, JM), **Prothonotary** at UCV 5/5-10 (KR, GAF, m.obs.), **Northern Waterthrush** at UCV 5/5 and the Roth Farm 5/7 (GAF, AM, JM), **Mourning** at UGT 5/25 (AM, JM), **Wilson's** at GLR 5/8 and UCV 5/18 (KC) and **Yellow-breasted Chat** on a UCV power-line 5/11 on (KC, GAF). Several of the more common warblers were found in better numbers than over the past 4 or so years (m. obs.).

Sparrows were unremarkable overall, but a late **White-throated Sparrow** at GLR 5/14 was noteworthy (GAF). Three **Vesper Sparrows** were at VFNP 4/17 (JMi).

Observers: **Kevin Crilly, PO Box 100, Sumneytown 18084, (215) 234-6867, great-gray@att.net**, Andrew Curtis, George Franchois, Joe Greco, Steve Grunwald, Jason Miller (JMi), Augie and Judy Mirabella, Ken Reiker, Peter G. Saenger.

### *Montour County*

The roost of **Short-eared Owls** along Stamm Road continued through at least mid-March. Spring migrants arrived later than usual this year, possible due to the cold, wet weather. Highlights for the period included 10 **Red-necked Grebes**, part of the statewide fallout, on 3/4 at the PPL Montour Steam Electric Station ash basin. Although the number of these birds began to decrease over time, the last grebe was observed on 4/10. A **Peregrine Falcon**, first observed in late March, was active near the Montour Steam Electric Station toward the end of the period. Plant personnel observed it capture a pigeon. David Ferry and Joe Lipar observed the falcon make several diving attacks at an immature **Bald Eagle** and nearly capture an **American Kestrel**. There is evidence that the peregrine was using a nesting box erected several years ago on one of the plant's emission stacks. There was no evidence of nesting, however. David Ferry reported a flock of over 1,000 mixed shorebirds at the ash basin on 6/1 including **Least** and **Semipalmated Sandpipers**, **Dunlin**, **Short-billed Dowitcher**, and **Semipalmated Plover**. Mature and immature **Bald Eagles** were observed at several locations (Susquehanna River at Danville, Montour S.E.S. ash basin, Lake Chillisquaque) throughout the county beginning on 2/25.

Compiler: **Jon Beam, Montour Preserve, 500 Preserve Rd., Danville 17821, (570) 437-3131, jdbeam@pplweb.com**

### *Northampton County*

Locations: Bear Swamp (BS), Martins Creek Flyash Basin (MCFB), Minsi Lake (ML), Monacacy Nature Center (MNC), Mt. Pleasant Road (MPR).

There were 217 species of birds observed from 1/1 to 6/15 in Northampton County. A **Red-Throated Loon** spent 25 days in April at ML and a late **Common Loon** was at ML on 6/7 (MS). The Delaware River section produced a good variety of waterfowl during the winter. The first **Red-Necked Grebe** in the county during the big irruption was on 2/21 near the Belvidere Bridge (AM). A high of 9 **Red-necked Grebes** occurred on 3/1 (AM). Three **Great Cormorants** wintered along the river between Sandt's Eddy and the Martins Creek Power Plant (var obs.). A late **Great Cormorant** was seen flying past the MCFB on 5/25 (var obs.). There was a flyby **American Bittern** at MNC on 4/21 (MS) and 2 **American Bitterns** at the Albert Rd. Ponds on 4/29 (RW). A **Greater White-Fronted Goose** was found on the river below the power plant on 3/15 (RW). Uncommon waterfowl seen on the river included **Gadwall**, **Canvasback**, **Redhead**, and **Long-tailed Duck**. A late male **Lesser Scaup** was at ML on 6/13 (MS). The rarest find on the river was a **Barrow's Goldeneye** seen from the Portland footbridge on 3/9 (TM) and another seen at the Foul Rift area on 3/11 (MS). There was also a probable **Barrow's hybrid** being seen at the Foul Rift area the first few weeks in March (AM, var ob).

There were 11 species of raptors found during the period. Possible breeding pairs of **Red-Shouldered Hawks** were seen regularly in June in Williams Twp (AK) and at BS (RW, MS). A dark-morph **Red-tailed Hawk** and several **Rough-Legged Hawks** wintered in the county, being seen from Tatamy to MCFB. A pair of **Peregrine Falcons** have taken up residence on the cliffs of the Delaware Water Gap above the Arrow Island Overlook area. Many birders observed the birds copulating, but there has been no confirmed nesting success. The last time **Peregrines** were here was 1941.

It was a great Spring for shorebirds with superb habitat created by the many rainy days. Two **Virginia Rails** were at School Rd. on 5/18 (RW). There were 31 **Black-bellied Plovers** (county high record) and 55 **Short-billed Dowitchers** (county high record) at MPR on 5/26 (MS, AM). Also seen at MPR on 5/26 was an **American Golden Plover** (AK) and 2 **Dunlin**. The habitat at MPR is large flat agricultural fields near the Delaware River. The flooded field by Green Pond held a high of 16 **Semipalmated Plovers** on 5/21 (MS) and a high of 40 **Solitary Sandpipers** on 5/10 (AM). A rare county find was a pair of **Ruddy Turnstones** (3rd county record) at MPR on 6/4 (MS). The top county highlight for the first 6 months occurred on 5/25-26: a male **Red Phalarope** (1st county record) in breeding plumage showed up at the MCFB during the stormy weekend (MS, var obs.).

There was an impressive showing of gull species (8) with several being seen late into the spring. A late **Bonaparte's Gull** was found on 6/5 at MPR (BW). A 1<sup>st</sup> winter **Thayer's Gull** (2<sup>nd</sup> county record) was seen at the Forks of the Delaware on ½4 (DD,AM). A 1<sup>st</sup> winter **Iceland Gull** was at the MCFB 1/9-12 (RW, JH, MS) and at the Chain Dam on ½5 and 1/30 (AM, DD). There was a 2<sup>nd</sup> winter **Glaucous Gull** at the Chain Dam on ½5 (AM) and a 1<sup>st</sup> winter **Glaucous Gull** at the MCFB on 2/2 (MS). Since 1999, both **Iceland** and **Glaucous Gulls** have become potential but rare finds in the winter. A new late date for **Lesser Black-backed Gull** was on 6/7 (MS) at MPR. And for **Great Black-Backed Gulls**, a county high of 78 were at the MCFB on 1/9 (RW, JH).

Two species of terns were seen during the period. A **Forster's Tern** was at ML on 5/9 (MS) and at the MCFB on 5/25 (var obs.). There was 1 **Caspian Tern** on 5/25 at the MCFB

(JH) and 5 at MPR on 6/1 (RW). Up to 3 **Short-eared Owls** wintered by the MCFB (RW, var. obs.).

Despite the rainy spring, birders were very successful at finding passerines. There were 3 **Yellow-bellied Flycatchers** at BS on 5/12 (RW). **Alder Flycatchers** were singing at 2 locations at BS on 6/15 (RW). **Common Ravens** successfully nested at the Delaware Water Gap (var. obs.). A late pair of **Brown Creepers**, not known to breed in the county, were at BS on 5/18 (RW).

During the NAMC on 5/10, the best find was a **Marsh Wren** at MNC (ST, LF). A **Gray-cheeked Thrush** was also seen on 5/10 at Jacobsburg State Park (AM, KM). There were 32 species of warblers found. Two **Golden-winged Warblers** were seen at the Walnutport Canal on 5/10 (JF). A **Mourning Warbler** was at MNC on 5/20-23 (LF). An **Eastern Towhee** was sporadically seen at MNC during the winter (LF). The tall grasses planted at Jacobsburg State Park last year to attract grassland birds attracted a **Savannah Sparrow** (5/12 by MS) and a **Grasshopper Sparrow** (5/9-6/9 by AM, MS). **White-throated Sparrows** were present through 5/10 (var. obs.) and a late **White-crowned Sparrow** was seen along National Park Rd. on 5/23 (MS). An adult **Gambel's White-crowned Sparrow** was seen by the MCFB on 1/4 (RW) and an immature was in Williams Township on 1/4 (AK). A late **Dark-eyed Junco** was at Lehigh Gap on 6/1 (BW). Missing during the count period were any reports of winter finches.

Observers: **Michael Schall, 1149 Mickley Ave., Whitehall 18052, (610) 435-2781, mdtjschall@yahoo.com**, Dave DeReamus, Linda Freedman, Jim Foster, Jason Horn, Arlene Koch, Terry Master, Adam Miller, Kathy Miller, Steve Thorpe, Bill Weber, Rick Wiltraut, various observers (var. obs.).

#### **Northumberland County**

No Report  
No Compiler

#### **Perry County**

Being busy concentrating on a Dauphin County Big Year, I have little to report. With the exception of a bird censusing job along the Appalachian Trail, in which I have three points located in Perry County, I rarely found myself within the county's borders this spring.

Most notable was Perry's inclusion to the 2003 list of counties on the **Red-necked Grebe** invasion list with a total of 10 birds being found between Amity Hall and Millerstown on 3/3.

The **Yellow-throated Warbler** "colony", maybe 3 pairs, at Warm Springs Lodge is alive and well. Multiple stops there this spring yielded a very satisfying tally of neotropical migrants. The day of 5/8 was very productive in the eastern third of the county. In conjunction with stops in neighboring counties a total of 23 out of 31 species of warbler were tallied at various locations in Perry County.

Observers: **Deuane Hoffman, 3406 Montour St., Harrisburg 17111, (717) 564-7475, corvuscorax@comcast.net**.

#### **Philadelphia County**

Locations: Benjamin Rush State Park (BRSP), Boat House Row (BHR), Carpenter's Woods (CW), Delaware River (DR), East Park Reservoir (EPR), Franklin D. Roosevelt Park (FDR), John Heinz National Wildlife Refuge at Tinicum-Phila Co. portion

(TI), North American Migration Count 5/10/03 (NAMC), Schuylkill River (SR)

The thaw in mid-March, bringing waterfowl back to open water, was followed by blustery April days, with snow and sleet on 3/30, 4/7 and a Nor'easter on 4/11. As spring progressed, the three-year drought ended with unrelenting rains and more than 22 dark rainy days in May. Philly birders did some wet warbler watching and there were naturally fewer reports.

A calling **Common Loon** greeted birders at the TI impoundment on 4/13 (DB, FW) and a late bird lingered on the DR below the Glen Foerd Mansion until 5/25 (DM). From the mansion on 3/16, **Great Cormorant**, perched on the marine towers and buoys, totaled 51 (MS).

With the returning waterfowl came grebes galore: 3 **Pied-billed** on the DR on 3/8 (MS), while TI hosted 5 throughout the first week of April (MF, DM). A **Horned Grebe**, almost in breeding plumage, was spotted at TI 3/15-4/9 (4H 3/22) and 3 **Red-necked Grebe** on the SR on 3/7 were diving to avoid the crew boats along BHR until 3/21 (KR,MS). A total of 9 Red-necked was found in an informal 3/16 survey of the DR and SR (MS), reflecting Philly's share of the first Red-necked "invasion" since 1994 and a single bird was still there for the 5/10 NAMC. The EPR (closed to the public) also hosted a bird on 4/24 (FG).

**Glossy Ibis**, always so numerous on the bayshore in northern Delaware (state), checked out TI more often than usual: on 4/27 for the Wyncote Audubon birders, on 5/5 (NC), and on 5/23 (DB). A **Common Merganser** remained on the DR at least through the 5/10 NAMC (MS). Two sightings of **Little Blue Heron** on 4/20 and 5/3 at TI were good reports.

**Snow Geese** began passing over on 3/16 and their number increased to 500 over TI 3/25 (DB) and 450 over Spring Lane (CH). Other *anatidae* were: 10 **Gadwall** at FDR 3/16 (MS), only 70 **American Black Duck** along the DR (MS) compared to 250+ in past years, and just a handful of **Blue-winged Teal** stopped at TI in early April. A high of 80 **Ring-necked** and 70 **Ruddy Duck**, plus the usual complement of **Common** and **Hooded Merganser** were on the TI impoundment and the DR. **Northern Shoveler**, **Bufflehead**, and **Northern Pintail** in much smaller numbers than usual were also present. A **Greater Scaup** at TI 3/29 (DB) and 2 **Lesser Scaup** at BHR (MS) were the only reports.

A pair of **Red-shouldered Hawk** wintering at TI gave a courtship display to a crowd of birders on 3/15 (DM), and for the second year a **Northern Harrier**, observed only infrequently, was a male. Matt Sharp reported that 3 **Peregrine Falcon** chicks on the Betsy Ross Bridge were on the NJ side and the single bird (a female?) on the Ben Franklin never mated. However, on the Walt Whitman Bridge, 4 **Peregrine** eggs hatched around 4/24 and yielded 2 females, banded on 5/19. Both birds fledged in the first week of June with no reported mortalities. At the Girard Point Bridge 3 eggs laid as of 3/30, hatched around 4/30, and 2 males and 1 female fledged 5/19. Through the second week of June, these fledglings also appeared to be doing well.

At Bartram's Gardens a female **Northern Bobwhite** nibbled on chickweed in early May, as birders approached very closely, suggesting it was an "escape" (DM). **Wild Turkey**, a common bird in northeast Philly, surprised refuge staff at TI when they found one on the entrance road 5/26 (MM). A **Sora** was found on 5/1 (BL, m.obs.) and fed at the edge of the impoundment until 5/12. A second **Sora** was discovered at FDR on the NAMC (RH). In spite of the fact that **American Woodcock** were flushed on 3/2, and that 10 were calling for GG's evening woodcock walk on 3/22 and thereafter, no one flushed a bird for the rest of the season. In years past a stroll off the paths of TI would put up several birds. Perhaps the nesting status of Woodcock within the boundaries of the refuge is

changing. Another woodcock location was the Lankenau Hospital grounds where birds were reported to be dancing. Shorebird reports were few, probably because the rain kept birders away from mud flats, which even at a low tide were frequently under water. Two **Semipalmated Plover** 5/10 (MS), **Greater** and **Lesser Yellowlegs** in small numbers, and **Solitary Sandpipers** 4/20-5/17 were reported.

**Laughing Gulls** returned to the DR in March and ca. 100 non-breeders fed on the waste heaps under the Walt Whitman Bridge through 5/31. A **Bonaparte's Gull** was seen 4/1 (MF), and 4 others were seen around TI 4/13-25 (DB). The first of a few uncommon **Common Tern** sightings in the TI area was 4/24 (JM, TS) and the last was 5/12 (TS). **Forster's** is always the most common *sterna* seen in April and May, and a **Caspian** on 4/27 was a good find (DB, GG).

A **Black-billed Cuckoo** and a **Red-headed Woodpecker** in Carpenter's Woods delighted EB 5/13. Two **Black-billed Cuckoo** were at TI on 5/10-12 (DB, TR, BB) and the latest was found on 5/27 (FW). **Common Nighthawk** returned to roost in the willows along the dike and were seen on the tree branches by many birders in May. On a telephone wire along Spring Lane 5/7, CH spied "a medium-sized, light gray bird with a prominent face mask which included the eye. It had a shiny black bill, black wings with white patches and a black tail with white outer tail feathers. In flight the bird showed some white in the wings." Chuck wrote, "I was about to run for witnesses when a Kingbird chased a **Loggerhead Shrike** away!" An **Alder Flycatcher** was seen and heard at Spring Lane on 5/21 (CH) and at TI on 5/14 (FW).

Best warblers of the season were a pair of **Cerulean** singing at TI on 4/30 (EP, FW, DB). These birds are the first TI record since Paul Dione had one there in 1950. Several people got to see two of the birds and it was thought there might have been a third. On the 5/10 NAMC, KR found a singing **Brewster's Warbler** in CW. The wing patch was solid yellow and the undersides were white. The song was a "Bee bee zzzzzz." MS also saw this Brewster's.

When Eric Pilote stepped into a Tincum port-o-potty on 4/24, he didn't expect total privacy, but he hardly expected to share the small space with a trapped and frantic **Yellow-rumped Warbler**. It's hard to say who got more relief from his visit, Eric or the bird who escaped! **Tennessee Warblers** seemed to be scarce, since only one report came from the Pennypack (FW). Surprisingly, **Wilson's Warblers** were abundant. Up to 6 **Wilson's** sang at TI on 5/14 (FW) and reports of multiple **Wilson's** came from CW and PP. Other warblers in unusually high numbers were **Pine**, more than 35 at TI on 4/12 (a record, or close to one) the day after a Nor'easter (MF). By 4/19 **Palm Warblers** numbered 35 at TI.

**Savannah Sparrow** was first reported on 4/27 and 2 pair were chasing about in the newly created grassy fields at Bartram's Gardens on 5/7 (DM). **Lincoln's Sparrow** were widely reported in the Delaware Valley, and I received 3 reports. One bird was along the pipeline cut at TI 4/30 (FW) with a second bird there on 5/18 (MD), but a third **Lincoln's** was Germantown on 5/7 (KR). DB was pleasantly surprised by an early **Rose-breasted Grosbeak** at TI on 4/21. Again this year **Bobolinks** investigated the fields along Spring Lane. MS found 3 there on 5/10 and CH watched a few birds stop over from 5/21-26, but none have nested since 2000 when the new mowing practices were introduced. **Snow Buntings** stopped briefly at TI on 4/2 (MF). **Eastern Meadowlark**, once a common winter visitor in those fields, was first seen 6/2. A few **Rusty Blackbirds** lingered at water's edge at TI until 5/7 (DM, FW). Last of the *icterids* are the **Orchard Orioles** (and **Baltimore**), first reported on 4/25 (BL) and thought to be increasing in number at TI and environs, along with the **Warbling Vireo** which now has more than 20 pairs nesting at TI.

In conclusion, like KS, who sent me the following report, we're all continually thrilled to see these critters pass through the heart of our city. "Today [5/27]...in the City Hall courtyard, were 2 **Black-throated Blue Warblers**; 2 female **American Redstart**; a **Black-and-white Warbler**; at least a dozen **Common Yellowthroat** and many **Gray Catbird**; a pair of **Swainson's Thrush** (singing, calling), and 6 **Ovenbird**. Then, outside the building in the street shrubs were, at least 12 **Common Yellowthroat**, a pair of **Black-throated Blue Warbler**, three more **American Redstart**, one a male, more than a dozen **Gray Catbirds** and a dozen **Ovenbirds**. Pretty cool. 5/28 Tonight, on my street, a pair of **Blackpoll Warblers**, one still in fall plumage, then a pair of **Black-and-white Warbler**, a female **Northern Parula**, 2 **Magnolia Warblers**, pair of **Common Yellowthroat**, and a **Yellow Warbler**. Seems birds are pairing up, but hanging back due to rain? Also saw a **Field Sparrow** and a **Swainson's Thrush**. It's an alley, Orkney Way, that the community has set aside between 5th and 4th below Poplar. When I got home from work, out back was a **Swainson's Thrush**, I heard it sing, I couldn't put my bins down. I am continually thrilled at my good fortune to see these critters pass through."

Observers: **Doris McGovern, 209 Dogwood Rd., Media 1 9 0 6 3 ( 6 1 0 ) 5 6 5 - 8 4 8 4 , mcgovern@masca.museum.upenn.edu**, Erica Brendel, Denis Brennan, Skip Conant, Ned Connolly, Michael Drake, Paul Driver, Steve DuPont, Mike Ferguson, Frank Gill, Jan Gordon, Gregg Gorton, Chuck Hetzel, Rich Horowitz, Hank Hox, Bill Lane, Steve Lawrence, Jim McKinney, Mike McMenamin, John Miller, Edie Parnum, Eric Pilote, Shirley Robbins, Keith Russell, Ted Sebring, Matt Sharp, Alice Sevareid, Kate Somerville, Judy Stepanaskie, Rick and Sharon West, Frank Windfelder.

#### **Pike County**

No report

Compiler: Mike Brubaker, PEEC, RR 2 Box 1010, Dingmans Ferry, PA 18328, (570) 828-2319.  
mikebru@ptdprolog.net

#### **Potter County**

No report

Compiler: **David Hauber, RR 2 Box 153, Coudersport 16915, (814) 274-8946, haubers3@penn.com**

#### **Schuylkill County**

Locations: Air Products Wildlife Area (AP), Hawk Mountain Sanctuary (HM), Landingville Dam (LVD), Swatara State Park (SSP), Sweet Arrow Lake (SAL), Tumbling Run Dam (TR)

As part of the push of **Red-necked Grebes** into PA in late winter/early spring, Schuylkill saw 1 individual at LVD from 3/2-3/15 (TC, BJ, JnD). A second was at the Still Creek Reservoir 4/9-4/18 (DK). A first species record for Schuylkill, an **Anhinga** was seen from the north lookout at HM 4/27 (KM). Possibly due to a high water level, bittern records were down some from the past few years at LVD. One **American Bittern** was seen at the dam on 5/4(TC), and a second sighting came on 5/30 (BJ). This species was also seen at SSP 4/27(TC). Single **Great Egrets** were at Ringtown 4/25 (MG), LVD 5/4(TC), and LVD 5/10 (DR, MW, DS). LVD had a **Black-crowned Night Heron** near the boat club area on 4/29(JS), and 3 were seen at AP on 5/10(JhD, JnD).

A really nice fallout of waterfowl occurred at SAL on 3/29 with 8 **Canvasbacks** and 20 **Long-tailed Ducks** (BA, GS). SAL also held a male **Redhead** on 4/13(BA). Two male **White-winged Scoters** put down at a rather small reservoir along the Black Creek 5/6(DK). **Bald Eagle** sightings were again fairly numerous around LVD from February into late spring. A **Merlin** was seen at TR 5/7 (TC). A great find was a **Peregrine Falcon** perched on a snag at AP 5/10 (JhD, JnD).

SAL had a **Bonaparte's Gull** on 4/10 (MW), and Lake Wynonah held 8 on 4/16 (MW). Another likely first record for our county, a **Black Tern** was seen at AP 5/10 (JhD, JnD).

Following the trend of recent years, **Black-billed Cuckoo** sightings were very scarce during spring. A **Red-headed Woodpecker** used a property near Barnesville 5/7-5/11(TN). There were 4 **Olive-sided Flycatcher** sightings from 5/13-5/31(RS, DK). It was another good spring for migrant **Alder Flycatcher**, with 9 individuals being recorded. At least 1 bird remained into July. The Alders seem to like areas of birches and aspens in the 15-25 ft height range.

**Philadelphia Vireo** was seen at SGL 110 Port Clinton 5/27(LB, NB). **Winter Wren** and **Golden-crowned Kinglet** sightings were rather scarce this spring. We saw 31 species of warblers during spring, including **Cape May Warbler** at SSP 5/10 (TC) and TR 5/12 (TC). A hybrid **Lawrence's Warbler** was at SGL 229 Tremont 5/10 (DB, PB). The number of **Magnolia Warbler** sightings was well above average. **Clay-colored Sparrow** was a great find at SGL 160 Rock 4/24 (TC). The McAdoo Area had a **Lincoln's Sparrow** on 5/10 (JhD) and SGL -227 had 1 on 5/18 (DK). **Lapland Longspur** was seen at Pitman on 3/16, and 2 **Snow Buntings** were at Rough&Ready on 3/1 (DK). Rare for our county to have summertime **Purple Finches**, it was nice to have some remain into June at a few locations. It was especially nice to have 3 stay into July in the South Tamaqua area (BB).

Observers: **Dave Kruel, 540 Pine St., Pottsville 17901, (569) 621-3704, accip@infionline.net**, Barb Allerton, Dave Barber, Patti Barber, Linda Beard, Nevin Beard, Barb Birosik, Aaron Clauser, Brian Clauser, Tom Clauser, John DeBalko (JhD), Jonathan DeBalko (JnD), Denise Donmoyer, Marilyn Gamble, Laurie Goodrich, Kerry Grim, Barb Jucker, AnnMarie Liebner (AML), Claire MacDonald, Kyle McCarty, Tom Noonan, Dave Rieger, Dan Schwartz, Rosemary Spreha, Gary Stauffer, Mike Ward, Scott Weidensaul, Sally Weisacosky (SaW), Doug Wood.

#### **Snyder County**

No report  
No compiler

#### **Somerset County**

Locations: Garrett Mud Flats--a reconstructed wetland owned by Dale Brant (GMF), Quemahoning Reservoir (QR), Somerset Lake (SL)

**Red-throated Loon** was first found at SL on 3/30 (JP) with a rather late bird seen there on 5/12 (LP). **Common Loon** was first found at SL 3/25 with a maximum of a rather low 11 being present on 3/30. The latest birds were 2 at QR through and beyond the end of the period. The **Red-necked Grebe** invasion reached Somerset County with 2 birds at Confluence on 3/4; three birds at SL on 4/8, and a bird present there until 4/18. **Double-Crested Cormorant** migrants at SL started 3/26, peaked at 20 in April and were present through the season. **American Bittern** were seen at Beachey Wetlands in early April (AM), Buffalo Creek on 4/21 (LP), and at Sammi's Swamp (SB).

Waterfowl migration was generally light in numbers due to late ice-out and probable over flight, but a good variety stopped in the county. **Northern Shoveler** was scarce with only 4 reported at SL on 4/6 (JP). **Greater Scaup** may have made up to 30% of the total of the scaup at SL between 3/23 and 4/25 with high scaup numbers being a low 100 on 4/5. **White-winged Scoter** singles were at QR (SB) and at SL on 4/10 (JP). The only **Long-tailed Duck** found were 5 at a farm pond near Berlin and 14 on SL, both 3/26 (JP).

**Virginia Rail** was found 4/21 north of Berlin with 2 present 4/26 (LP) as well as at BC 4/26 (JP). A few shorebirds put in an appearance. **Black-bellied Plover** was a flyover at GMF on 5/31, and 2 **Semipalmated Plovers** 5/14 were also at GMF (JP,LP). **Yellowlegs** were present at various locations with a maximum of 9 **Lessers** at GMF 5/14. Probable breeding pairs of **Upland Sandpipers** were present at GMF and north of Berlin (JP, LP). **Semipalmated** (maxima 24) and **Least Sandpipers** were found at GMF on 5/14 and on 5/31 with a single **White-rumped Sandpiper** (JP, LP). Twenty **Pectoral Sandpipers** were at a site north of Berlin on 3/26 with an impressive 92 **Wilson's Snipe** present at the same site on 3/31 (JP).

**Bonaparte's Gulls** peaked at 50 at SL on 3/30, while a first winter **Great Black-backed Gull** was approximately the third county record (JP, SB). Four **Caspian** 5/25, 1 **Forster's** 4/17 and 6 **Black Terns** 5/15 at SL were maximum reports (JP, LP).

The bird of the season was probably a **Barn Owl** observed hunting over Buffalo Creek at dawn 4/22 (JP). This was the first live bird seen in the county in years.

Passerine migration was only average with few fallouts. Expected breeders were usually on time despite the cold and rain. **White-eyed Vireo** is somewhat rare in the county so one at SL 5/14 was notable. A few **Red-breasted Nuthatches** moved through in late April to early May at QR (TD) and at the Payne Property (JP, LP). **American Pipits** were more visible than normal due to late snow storms concentrating them along roads and waterways, 30+ were present 3/30 north of Berlin. Warbler numbers were average with 29 species reported. Notable was **Prairie** at Hidden Acres Farm (TD, SD), over 10 territorial **Golden-wingeds** near QR 5/27 (JP, LP), 2 territorial **Kentucky** and one transient **Mourning** near New Baltimore 5/27. A **Yellow-breasted Chat** was found near Fairhope on 5/20 (JP, LP). **Yellow-throated Warbler** found 5/10 near Confluence (RG) could not be relocated later in the month after the sycamores lost their leaves either due to disease or a late frost.

**Fox Sparrow** maxima were 18 at the Payne Property on 4/7. **Henslow's Sparrows** were found by 5/22. A **Lincoln's Sparrow** 5/22 at the Payne Property (LP) was a good spring find. **Rusty Blackbirds** were found in small numbers in late March in the Berlin area (JP, LP). No **Pine Siskins** or **Evening Grosbeak** were reported.

I would welcome further reports to supplement the somewhat limited coverage of the large and productive county.

Observers: **Jeff Payne, 9755 Glades Pike, Berlin 15530, (814) 267-5718**, Scott Bastian, Sally Dick, Tom Dick, Pete Gallardy, Ross Gallardy, Anthony Marich, Lauretta Payne.

#### **Sullivan County**

No report  
No compiler

#### **Susquehanna County**

Location: Records are from Springville Twp. unless otherwise indicated.

A **Double-crested Cormorant** was seen 5/6. The first **Great Blue Heron** for the period was seen 3/31. The first **American Black Duck** of the period was 3/31. A **Wood Duck**, 4 **Green-winged Teal**, and 3 **Ring-necked Ducks** were seen 3/31. Seven **Ring-necked Ducks** were seen 4/14.

An immature **Bald Eagle** was at Lake Idlewild 5/26. Two **Northern Harriers** were seen 4/6. A **Wilson's Snipe** was present 3/31 along with a **Ring-billed Gull**.

A **Ruby-throated Hummingbird** was seen 5/21, and a **Least Flycatcher** was noted 5/26. A **Blue-headed Vireo** was at Lake Idlewild 5/26. A **Common Raven** was seen 5/21, and 2 seen 5/26. A **Blue-gray Gnatcatcher** was present 5/6. A **Tennessee Warbler** and a **Magnolia Warbler** were seen at Lake Idlewild 5/26. The first **Savannah Sparrow** for the period was seen 3/31, and a **White-throated Sparrow** was seen 5/6.

Observers: **No County Compiler**, Bill Reid.

*Note: New compiler beginning with the Fall Migration season: Robert W. Blye, Jr., Hidden River Farm, 300 Sanatoga Road, Pottstown, PA 19465, 610 327-2502, rblye@audubon.org*

#### *Tioga County*

No report

Compiler: **Robert M. Ross, 97 State Rte 287N, Wellsboro, 16901, (570) 376-5394**

*Note: New compiler beginning with the Fall Migration season: Jeff Holbrook 2631 King Circle, East Corning, NY, 14830, (607) 936-5059, mycteria@stny.rr.com*

#### *Union County*

No report

No compiler:

#### *Venango County*

Locations: Allegheny River (AR), Buttermilk Hill Nature Sanctuary (BHNS), Kahle Lake (KL), Oil City (OC)

Old Man Winter gave us a taste of the "old time" winters that parents and grandparents are so anxious to tell about. There was a lot of snow, daily temperature highs in the teens were commonplace, ice was late going off the lakes, and Spring proved to be cold and wet. Whether it was this combination or something else, it was a strange first five months of the year from a birding standpoint.

On 3/1, 29 **Red-necked Grebes** were counted on the AR from OC south to Belmar (KG, JS) and on 3/2 another 7 were counted from OC north to Hunter Station Bridge (GE, RS). Subsequent arrivals have lingered and one was still present at KL on 5/31. **Double-crested Cormorant** is appearing earlier (4/4) and staying later (still around well into June) at AR and KL. **Great Egret** made its annual appearance, being seen on the AR on 4/6 (GE) and on Sugar Creek on 4/12 (EA). The first county Spring record **Black-crowned Night Heron** was seen at KL on 5/24 (DG, KG, JS).

**Tundra Swan** migration through the county was short this year with sighting only from 3/3 through 3/11. Several **Redhead** overwintered on the AR between OC and Franklin with a high of 14 being recorded on 1/31. The last sighting was

3/14. **Common Goldeneye** numbers continue to increase on the AR between OC and Franklin during the winter months. A lingering bird was recorded several times at Hovis Pond, with a new late date record on 5/13 reported by RM. Waterfowl appeared at KL and Justus Lake immediately after the ice melted, and all regular species made at least brief appearances. **Surf Scoter** was not recorded for the third consecutive Spring.

**Osprey** still have not been documented as nesting in the county, but that could change at any time. Sporadic sightings have occurred at KL through 5/28 and may continue. The birds are not using the nesting platform at the Neely farm. **Northern Goshawk** was reported twice from BHNS, 2/23 and 3/12(JS,KG). **Rough-legged Hawk** wintered in the area until 4/12 (GE).

**Virginia Rail** and **Sora** both showed up on schedule, while **American Coot** numbers were low -- perhaps because of so much bad weather. The first county record **Black-bellied Plover** visited a field at Rhoades Farm near KL on 5/12 (GE, ML, JS, RS). Under normal circumstances, we have very few mudflats for shorebirds; under every day rain conditions, we have none. Shorebirds were limited to muddy cow pastures and short-grass fields. One exception was a group of five **Willet** at KL on 5/4 (ML). **Upland Sandpiper** was first seen 4/21, and 6 were counted at two locations near Barkeyville. **Caspian Tern** was seen at KL on 4/21 and 4/22. **Common Tern** numbers seem to be increasing while **Forster's Tern** sightings appear to be decreasing. Most sightings were at KL. **Black Tern** was present at KL on almost a daily basis between 5/3 and 5/14.

**Yellow-bellied Flycatcher** (3) was observed at Justus Lake 5/18 (GE, JS). No **Olive-sided Flycatcher** was found, but again, this could have been a combination of bad weather for both birds and birding as almost all flycatcher were a week or so late in arriving. **Philadelphia Vireo** migration was short-lived, being seen only from 5/15 to 5/18 (JS, RS). **Golden-crowned Kinglet**, a winter visitor, was last seen on 4/11. **Gray-cheeked Thrush** was counted only on 5/25 at BHNS (KG, JS).

It was the worst warbler migration in recent years. While all the usual species were found, except Cape May, the numbers were low and many were a few days late in arriving. **Lapland Longspur** was recorded at Rhoades Farm near KL on 2/8, and **Rusty Blackbird**, usually documented several times each Spring was found only on 4/30 (RS).

All-in-all, it was a poor migratory season with a few highlights like the Red-necked Grebes and the Black-bellied Plover thrown in just for teasers.

Observers: **Gary Edwards, RR1, Box 494, Seneca 16346, (814) 676-3011, gedwards@csonline.com**, Ed Atts, Nancy Baker, Jim Barcaskey, Margaret Buckwalter, Dave Edwards, Gary Edwards, Joe Edwards, Joyce Fleming, Deb Freed, Ed Frena, Joanne Frena, Walt Fye, Kathie Goodblood, Deuane Hoffman, Meg Kolodick, Mike Leahy, Flo McGuire, Jim McGuire, Ron Montgomery, Kate St. John, Jerry Stanley, Russ States, Mark Vass, Tom Wescott.

#### *Warren County*

A **Great Egret** was at Akeley Swamp 5/3 (MG). A female **Hooded Merganser** led 10 very small young in the Newbold Estate ponds near Irvine 5/3 (TG).

A **Virginia Rail**, three **Soras**, 8 **Greater Yellowlegs** and a **Pectoral Sandpiper** were in Akeley Swamp 5/3-4 (MG, CP). A female **Northern Harrier** was near Lander 6/2 where a male had been seen earlier (DW).

A **Willow Flycatcher** was at Akeley Swamp 5/18 (CP). An **Olive-sided Flycatcher** was at Saybrook 5/26 (MN), and 1 was at North Warren 5/30 (CP). **Common Ravens** nested on

rock ledges in Warren and Forest county sites. The Forest Co. site was the 32<sup>nd</sup> consecutive year it was used (TG). Three **Yellow-throated Warblers** were at the Buckaloons Recreation Area 5/1 (DW). A **Vesper Sparrow** was seen near Garland 6/2 (DW). There were 22 **Fox Sparrows** at a feeder in Saybrook 4/7 (MN). An **Orchard Oriole** was in Warren 5/13 (KM). This was the fifth county record.

Observers: **Ted Grisez, 10 Belmont Dr., Warren 16365, (814) 723-9464**, Mary Grishaver, Kathy MacKenzie, Marjorie Neel, Chase Putnam, Don Watts.

#### *Washington County*

No report  
No compiler

#### *Wayne County*

No report  
No compiler

#### *Westmoreland County*

No report  
Compiler: **Robert C. Leberman, Powdermill Nature Reserve, HC64 Box 453, Rector, 15677, (724) 593-7521**

#### *Wyoming County*

At least 160 species were recorded in the county during the period, with 122 of them found with somewhat limited coverage on the North American Migration Count 5/10.

A **Red-necked Grebe** was found at Tunkhannock on 4/2, adding Wyoming Co. to the list of counties where this bird was seen (JD). **Double-crested Cormorant**, a very rare migrant only a few years ago, is being found regularly now in Wyoming Co.

A very unusual treat was seeing an adult **Great Egret** with all its plumes swaying in the breeze at a farm pond in Lemon Twp, 4/24 (BR). Very unusual in this county was the presence of 2 **Black Vultures** with 15 **Turkey Vultures** at Mehoopany, 4/16 (RK).

A **Snow Goose** lingered on an island in the river at Laceyville from late April until at least 5/10 (PR, EW). **Bald Eagles**, both immature and adult, are being found with regularity, not only along the Susquehanna River, but elsewhere in the county. We keep looking for them to nest, quite possibly by the river at Vosburg. It was great to see an adult **Northern Goshawk** with its gray back, whitish underparts, and typical accipiter flight, flying over at close range, being chased by 2 **American Crows**, at Phelps Swamp, 5/10 (WR).

For years I've heard about the dramatic U-shaped flight of the male **Ruby-throated Hummingbird** in its courtship, but I'd never seen it until I saw one involved in it right outside my window at South Eaton on 5/19. It's all they say it is, and then more! (BR).

For a number of years, fields at W. Nicholson were the best place in Eastern Pennsylvania to find **Henslow's Sparrows**. Then, 3 years ago, several males staked territories, but, apparently, no females came, so the males left. The next year only 1 bird was heard on a single occasion, and since then, including this year, there have been no records in the county, even though the field where they were still seems suitable.

Observers: **Bill Reid, 73 W. Ross St., Wilkes-Barre 18701 (570) 836-2734**, Mark Catalano, Joe DeMarco, Sandy Goodwin,

Edwin Johnson, Jeanne Kilmer, Shane Kleiner, Rick Koval, Phyllis Rosenkrance, Ellen Whipple.

#### *York County*

Locations: Codorus State Park (CSP), Gifford Pinchot State Park (GPSP), Lake Redman (LRED), Lake Williams (LWMS), Long Arm Reservoir (LAR), Rocky Ridge County Park (RRCP), Sheppard-Myers Reservoir (SMR), Spring Valley County Park (SVCP), State Game Lands near New Salem (SGL)

There were 191 species reported during the spring 2003 season, including 31 species of waterfowl and 30 species of warblers. The May 10 North American Migration Count (NAMC) participants found 141 species, in spite of steady rain all morning and some showers in the afternoon.

York County participated in this spring's **Red-necked Grebe** "fallout". They were found at 9 different locations, from 3/2 to 4/21. There was one 3/2-4/21 at LAR (JLD, DJG, BP, PJR); on 3/10 there were 3 at Fishing Creek, 8 at Cabin Creek, and 1 at Kline's Run (JE); on 3/12-16 there was 1 at Spring Grove (PK); on 3/22 there was 1 at LWMS (RP); on 3/27 there was 1 at LRED (RP); on 4/1 there was 1 at SMR (KL); on 4/2 there were 2 at CSP (JLD). **Double-crested Cormorant** have been increasing in recent years. The first report this year was 1 on 3/23 at CSP (BP), the last was 7 on 4/20 at LAR (PJR), and the high was 80 on 4/7 at CSP (KL).

An **Am. Bittern** was found 4/13 at CSP (KL) and was seen again 4/14. There were four reports of **Great Egret**: 1 at Long Level 3/13-15 (JE); 1 at CSP 4/4-7 (BM, KL); 1 at CSP 4/27 (PJR). **Black-crowned Night-Heron** were first reported 4/10 at Kiwanis Lake, where they nest, and an adult **Yellow-crowned Night-Heron** was seen there the same day (PJR). A **Glossy Ibis** was found at SGL on 4/24 and stayed until 4/27 (RP).

**Mute Swan** were found at LRED 3/30 (RP), then at CSP 4/27 (KL) and 5/4 (PJR). **Tundra Swan** came through the area as usual with a high of about 400 at CSP on 3/14 (BM, KL), and a somewhat late single bird at a Green Valley Rd. restored wetland on 5/2 (PJR). A male **Eurasian Wigeon** was found at CSP on 4/13 (KL) and was seen at another location in the park on 4/15 (BP). The largest flocks of ducks seen, both on 3/14 (KL), were 100-plus **Northern Pintail** at CSP and 100 **Ring-necked Duck** at SMR. There were 3 reports each of **Canvasback** and **Redhead**, both fairly uncommon here. A **Surf Scoter** was an unexpected find at LWMS 4/16 (RP). A **Long-tailed Duck** at CSP 3/28 (KL) was the only report.

There were a few sightings of **Osprey**, of **Bald Eagle**, and of **Northern Harrier**. A **Merlin** was seen 4/24 at SGL (RP). There were 3 reports of **Wild Turkey**, including a nice flock of 20 on 3/8 at Wrightsville (JLD). **Northern Bobwhite**, very scarce in the county these days, were reported mid-May at just 3 locations (JD, PJR).

Most of the few shorebirds seen were at a pond at SGL (RP), including **Black-bellied Plover** 5/13, **Semipalmated Plover** 5/17, and **Dunlin** 5/10. **American Woodcock** arrived on schedule on 3/12 at CSP (KL). **Bonaparte's Gulls** were seen 3/22 at LRED (RP), 4/16 with 30 at CSP (KL), and 5/10 when 45 were seen on the NAMC. **Caspian Terns** were reported from 4/13 to 4/27. Two **Forster's Terns** were found on the NAMC.

There were 3 reports of **Barred Owl**, and on 3/22 a **Northern Saw-whet Owl** was seen in Glen Rock (RP). No **Short-eared Owls** were reported. There was a group of 4 **Pileated Woodpeckers** that put on a show for BM at GPSP on 4/10. There was an intriguing report of a brief sighting of a possible adult male **Vermillion Flycatcher** 5/10 at SGL 242 (PK) (report sent to PORC). The other interesting Flycatchers were an **Olive-sided Flycatcher** found 5/10 on the NAMC,

another Olive-sided found 5/28-29 at CSP (RP), 2 **Least Flycatchers** 5/10 at SVCP (RP), and another Least 5/14 at RRCP (RP). **Yellow-throated Vireos** were found in a few locations. One was at GPSP on 5/11 (RP), 1 was found 5/20 and 2 were found 5/27 along bird survey routes (PJR). **Blue-headed Vireos** were reported 4/12 at RRCP (RP) and 5/15, a bit late, at Wrightsville (JLD).

A **Common Raven**, quite uncommon in the county, was seen 5/29 flying over a residence in the city of York (AM). While most **Horned Lark** reports are of flocks on manure in snow covered fields, they do stay in the county to nest, and were reported on bird survey routes run 5/19(1), 5/28(7), and 5/30(3) (PJR). A **Northern Rough-winged Swallow** at LRED on 3/29 was a little early.

The less common warblers that were seen were **Tennessee** 5/14 at RRCP (RP), **Bay-breasted** 5/11 at GPSP (RP), **Cerulean** at Lock 12 on 5/3 (RP) and 5/27 (PJR), **Prothonotary** at GPSP on 5/11 (RP), 3 **Wilson's** 5/10 during NAMC plus one 5/14 in York city (AP). The 4 **Yellow-breasted Chat** reports included 5/3 at SVCP (RP), 1 on the NAMC, 3 at CSP on 5/26 (KL), and Lock 12 (JS).

A **Scarlet Tanager** at Long Level 4/14 (JE) was a bit early, as was a **Rose-breasted Grosbeak** at CSP on 4/27 (KL) and an **Orchard Oriole** at SGL on 4/26 (RP). Two **White-crowned Sparrows** at East Prospect on 5/15 were leaving a little late. A **Blue Grosbeak** at East Prospect on 4/18 (JE) was about 2 weeks early, and one 5/11 (RP) at SGL 242 in the northern part of the county is interesting because the species, regular but uncommon in the county, is usually found in the southeast portion of the county.

Observers: **Peter Robinson, P. O. Box 482, Hanover, PA 17331, (717) 632-8462 pabirder@hotmail.com** (PJR), Fred Clark (FC), Jon Dale (JD), Jack & Lil Downs (JLD), Jim Elliot (JE), Clyde & Barb Fisher (CBF), Bruce Fortman (BF), Don & Jennifer Gilbert (DJG), Dan Heathcote (DH), Robert Himmer (RH), Georgia Kagle (JK), Phil Keener (PK), Karen Lippy (KL), Andy McGann (AM), Bob Moul (BM), Ann Pettigrew (AP), Randy Phillips (RP), John & Jean Prescott (JJP), Beth Pugliese (BP), Anna May Shaffer (AMS), Jim Smith (JS), Al Spiese (AS), Tish Swam (TS)

---

# PSO NOW HAS T-SHIRTS FOR SALE!



Beige with the round PSO Logo on the front and a larger image of the Pileated on Pennsylvania graphic on the back.

To order, use the order form inside the front mailing cover or visit the PSO web site [www.pabirds.org](http://www.pabirds.org) and download an order form.

SPRING MIGRATION TABLES - 2003

|              | LOON         |           | GREBE       |           | CORMORANT  |                | BITTERN   |           | HERON     |            | EGRET     |           | HERON<br>LITTLE BLUE | EGRET<br>CATTLE | HERON<br>GREEN |
|--------------|--------------|-----------|-------------|-----------|------------|----------------|-----------|-----------|-----------|------------|-----------|-----------|----------------------|-----------------|----------------|
|              | RED-THROATED | COMMON    | PIED-BILLED | HORNED    | RED-NECKED | DOUBLE-CRESTED | GREAT     | AMERICAN  | LEAST     | GREAT BLUE | GREAT     | SNOWY     |                      |                 |                |
| ALLEGHENY    |              | 5/3-5/8   | 3/4-5/26    | 3/4-3/26  | 2/28-4/20  | 2/1-6/7        |           |           |           |            |           |           |                      |                 | 4/27>          |
| ARMSTRONG    | 3/26-3/27    | 3/23-5/22 | 3/23-4/7    | 3/13-4/7  | 3/1-4/7    | 3/29-5/22      |           |           |           |            |           |           |                      |                 | 5/10>          |
| BEDFORD      | 5/5-6/7      | 3/29-5/7  | 3/21>       | 3/21-5/10 | 3/21-5/17  | 3/29-5/22      | 4/4>      | 5/12>     |           |            | 4/19>     |           |                      |                 | 4/16>          |
| BERKS        | 3/29-5/10    | 3/29-5/26 | 3/8>        | 3/15-4/19 | 3/2-5/6    | 3/23-6/30      |           |           |           |            | 3/23>     | 5/17-5/17 |                      |                 | 5/3>           |
| BRADFORD     |              | 6/3-6/3   | 4/9>        | 4/9>      | 3/21-4/9   | 4/9-6/24       | 5/4>      |           |           |            |           |           |                      |                 | 5/10>          |
| BUCKS        | 4/13-5/28    | 3/9-6/3   | 3/9-5/12    | 3/9-4/18  | 2/2-5/26   | 3/8>           | >5/9      | 4/15-5/3  |           |            | 4/2>      |           | 4/28-4/28            |                 | 4/18>          |
| BUTLER       |              | 3/23-5/28 | 3/17>       | 3/21-3/23 | 3/23-4/13  | 4/4-5/31       |           |           |           |            |           |           |                      |                 | 5/1>           |
| CAMBRIA      |              | 4/5-5/29  | 4/5-4/26    | 4/5-4/20  | 4/7>       | 4/18-5/29      |           |           | 3/15-6/30 |            | 5/13-6/15 |           |                      |                 | 5/3>           |
| CENTRE       | 3/28-4/1     | 3/23-5/21 | 3/13-5/2    | 3/10-4/9  | 3/1-5/21   | 3/28-5/17      |           |           |           |            | 4/5-5/22  |           |                      |                 | 4/17>          |
| CHESTER      | 3/24-3/30    | 3/23-5/15 | 3/15-5/10   | 3/22-5/12 | 3/10-5/17  | 3/23-5/26      | 5/14-5/14 |           | 3/22>     |            | 4/17>     |           | 4/21-5/6             |                 | 5/14>          |
| CLARION      |              | 3/26-6/14 | 3/26>       | 4/26>     | 2/28-5/29  | 3/12-6/3       |           |           |           |            | 4/17>     |           |                      |                 | 5/10>          |
| CLINTON      | 4/16>        | >5/27     | 3/18>       | 3/18-4/2  | 3/3-3/18   | 4/12-5/15      | 5/9-5/14  |           | 1/15>     |            |           |           |                      |                 | 5/14>          |
| CRAWFORD     |              | 3/26-4/30 | 3/22>       | 3/8-4/19  | 3/26-5/26  | 3/26-5/26      | 4/9>      |           | 4/6>      |            |           |           |                      |                 |                |
| CUMBERLAND   |              | >5/10     | 3/3>        | 3/3-5/11  | 3/4-5/10   | 3/17>          |           |           |           |            | 3/17>     |           |                      |                 | 5/8>           |
| DAUPHIN      | 3/29-5/4     | 3/29-6/1  | 3/14-5/23   | 3/1-4/15  | 2/26-6/11  | 3/11>          |           | 4/8-5/12  |           |            | 3/15>     | 4/4-6/5   |                      |                 | 4/16>          |
| DELAWARE     |              | 3/23-5/13 |             | 3/13-4/9  | 3/14-4/1   | 3/8-5/31       | >4/1      |           |           |            | 3/22-4/30 | 4/15-5/15 |                      |                 | 4/1>           |
| ERIE         | 4/5>         | 3/30-6/15 |             | 3/30-5/15 | 2/25-4/21  | 2/1-6/30       |           | 4/19-5/16 |           |            | 4/6-5/18  |           |                      |                 | 4/1>           |
| FAYETTE      |              | 4/5-4/5   | 3/18-4/5    | 3/15-3/19 |            |                |           |           |           |            |           |           |                      |                 |                |
| FOREST       |              |           | 3/18>       | 3/13>     | >3/9       | 5/9-5/10       |           |           |           |            |           |           |                      |                 |                |
| FULTON       |              | 4/11-6/3  | 3/22-5/10   | 3/22-5/18 | 3/29>      | 3/29-5/4       |           |           | 2/24>     |            |           |           |                      |                 | 5/10>          |
| GREENE       |              |           | 3/13>       | 3/13>     |            |                |           |           |           |            |           |           |                      |                 | 5/8>           |
| HUNTINGDON   | 3/1-3/16     | 3/27-5/13 | >5/24       | 3/29-4/14 | 3/2-4/24   | 3/23-6/1       |           | 4/29-5/21 |           |            | 3/29-5/13 |           |                      |                 | 4/26>          |
| INDIANA      | 4/29-4/30    | 3/25-6/3  | 3/17>       | 3/22-4/15 | 3/4-4/8    | 3/26-6/17      |           | 4/22-5/1  |           |            | 3/21-5/27 |           | 5/13-5/13            |                 | 4/29>          |
| LANCASTER    | 3/29-4/5     | 3/29-5/31 | 4/14-5/14   | 3/1-4/13  | 3/1-6/1    | 3/9>           |           |           |           |            | 3/16>     |           | 4/30-4/30            |                 | 4/18>          |
| LEBANON      | 4/1>         | 3/29-5/10 | 3/29-5/10   | 3/29-4/11 | 3/14-5/14  | 4/2>           |           |           |           |            | 4/23>     |           |                      |                 | 5/3>           |
| LUZERNE      | 3/31-5/17    | >5/17     | >5/16       | >5/17     | 3/4-5/17   | 4/1-5/31       |           | 4/14>     | 3/1>      |            | 5/15-5/31 |           |                      |                 | 5/2>           |
| MCKEAN       | 3/29-4/8     | 3/25-6/3  | 3/11-4/13   | 3/13-4/4  | 3/14-6/1   | 4/1-4/11       | 4/8-4/10  | 4/29>     | 3/1>      |            | 4/24-4/24 |           |                      |                 | 5/10>          |
| MERCER       |              | 3/22-5/8  | 3/28>       | 3/15-4/5  | 3/26>      | 3/16-5/10      |           |           |           |            | 4/4>      |           |                      |                 | 4/20>          |
| MONTOUR      |              | 3/27-5/10 | 3/3>        | 3/16-4/10 | 3/4-4/10   | 4/2>           |           | 4/5>      |           |            |           |           |                      |                 | 3/28>          |
| NORTHAMPTON  | 4/1-4/26     | 3/29-6/7  | 2/16-4/8    | 3/8-4/6   | 2/21-3/29  | 3/26-6/4       | >5/25     | 4/21-4/29 |           |            | 5/2-6/13  |           |                      |                 | 4/29>          |
| PHILADELPHIA |              | 3/25-5/10 | 3/8-5/13    | 3/15-4/7  | 3/7-5/10   | 3/1>           | 3/8>      | 4/20>     |           |            | 3/22-6/20 | 5/1>      | 4/20-5/3             |                 | 4/20>          |
| SCHUYLKILL   |              | 3/29-5/17 | 3/26-5/10   | 3/21-3/30 | 3/2-4/18   | 3/24-5/10      |           | 4/27-5/30 |           |            | 3/23-5/10 |           |                      |                 | 5/3>           |
| SOMERSET     | 3/30-5/12    | 3/25-6/14 | 3/4-5/12    | 3/18-4/18 | 3/4-4/13   | 3/26-5/30      |           | 4/21>     | 3/4>      |            | 3/27>     |           |                      |                 | 4/22>          |
| TIOGA        | 3/30-4/9     | 3/30-5/25 | 3/30-4/2    | 3/31-5/2  | 3/30-4/7   | 3/28-5/2       |           | 5/9-5/9   | 3/8-4/2   |            |           |           |                      |                 |                |
| VENANGO      |              | 3/28>     | 3/28-5/18   | 3/11-5/18 | 3/1>       | 4/4>           |           |           | 3/1>      |            | 4/6-4/12  |           |                      |                 | 4/19>          |
| WYOMING      |              | 4/2-5/10  | >5/10       | 3/15-4/10 | 4/2>       | 4/29-5/18      |           |           | 3/24>     |            | 4/14>     |           |                      |                 | 5/10>          |

Two dates indicate first and last dates recorded. A date with a ">" after it indicates first date recorded. A date after a ">" indicates last date recorded.

SPRING MIGRATION TABLES - 2003

|              | NIGHT-HERON   |                | VULTURE  |        | GOOSE            |           |           | SWAN   |           | DUCK WOOD | GADWALL   | WIGEON    |           | DUCK AMERICAN BLACK | MALLARD |
|--------------|---------------|----------------|----------|--------|------------------|-----------|-----------|--------|-----------|-----------|-----------|-----------|-----------|---------------------|---------|
|              | BLACK-CROWNED | YELLOW-CROWNED | BLACK    | TURKEY | GR WHITE-FRONTED | SNOW      | ROSS'     | CANADA | TUNDRA    |           |           | EURASIAN  | AMERICAN  |                     |         |
| ALLEGHENY    |               |                |          | 3/4>   |                  |           |           |        | >3/12     |           | 3/9-4/6   |           | >4/11     | >4/7                |         |
| ARMSTRONG    |               |                |          | 3/8>   |                  |           |           |        | >3/11     |           | 3/9-3/11  |           | 3/4-3/26  | >3/11               |         |
| BEDFORD      |               |                |          |        |                  | >4/15     |           |        | >3/24     |           | 4/18-5/10 |           | >4/17     |                     |         |
| BERKS        | 5/2>          |                |          |        |                  | >5/10     | >3/22     |        | >4/13     |           | >4/5      |           | >4/19     |                     |         |
| BRADFORD     |               |                |          |        |                  |           |           |        |           |           |           |           |           |                     |         |
| BUCKS        | 4/16>         | 6/3-6/3        |          |        | 3/12-3/15        | >5/29     |           |        | 3/11-4/13 |           | >3/21     |           | >5/9      |                     |         |
| BUTLER       |               |                |          |        |                  |           |           |        | >3/23     |           | 4/4-5/10  |           | >5/10     |                     |         |
| CAMBRIA      |               |                |          | 3/16>  |                  |           |           | 3/11>  | 3/9-3/24  | 3/20>     |           | 3/9-4/7   |           |                     | 3/1>    |
| CENTRE       |               |                |          |        |                  |           |           |        | 3/4-4/8   | 3/5>      | 3/20-4/29 |           |           | 3/9-4/7             |         |
| CHESTER      | 5/14>         |                |          |        |                  | 3/10-4/2  | 3/15-3/15 |        | 3/10-4/22 |           | 2/26-4/15 |           | 3/22-4/8  |                     |         |
| CLARION      |               |                |          | 3/7>   |                  |           |           |        | >3/30     | 4/12>     | 4/26>     |           | >4/26     | 2/7>                |         |
| CLINTON      |               |                |          | 3/9>   |                  | 3/11-3/14 |           | 2/1>   | 3/10-4/11 | 3/21>     | 3/13>     |           | 3/13-3/27 | 3/13>               | 3/13>   |
| CRAWFORD     |               |                |          |        |                  | >3/15     |           |        | >4/30     |           | 3/6-4/30  |           | >4/15     |                     |         |
| CUMBERLAND   | 4/1>          | 4/2>           | 3/1>     | 3/1>   |                  |           |           | 3/1>   | >4/30     | 3/1>      | >4/28     |           | >4/28     | 3/1>                | 3/1>    |
| DAUPHIN      | 4/2>          | 4/15>          |          |        |                  | >4/23     |           |        | >5/10     |           | 3/9-5/10  | 3/26-3/27 | >4/14     |                     |         |
| DELAWARE     | 3/28-5/1      |                |          |        |                  | 3/22-4/2  |           |        |           | 3/13>     | 3/9-3/18  |           | 3/10-3/13 |                     |         |
| ERIE         | 4/9-5/24      |                |          | 2/7>   |                  |           |           |        | >5/30     | 2/27>     | >5/30     |           | 3/1-5/15  | >5/15               |         |
| FAYETTE      |               |                |          |        |                  |           |           |        |           |           |           |           | 3/9-3/29  |                     |         |
| FOREST       |               |                |          | 3/14>  |                  |           |           |        | 3/8-5/10  | 3/13>     |           |           |           |                     | 3/2>    |
| FULTON       |               |                | 3/9>     | 3/9>   |                  | 4/12>     |           | 2/24>  |           | 3/15>     | 3/9-3/23  |           |           | 3/23>               | 3/9>    |
| GREENE       |               |                |          |        |                  |           |           |        |           |           |           |           |           |                     |         |
| HUNTINGDON   |               |                |          |        |                  |           |           |        |           |           |           |           |           |                     |         |
| INDIANA      |               |                |          | 3/4>   |                  | 3/14-3/14 |           |        | 3/12-4/7  | 3/16>     | 4/5-4/5   |           | 3/14-3/26 | >4/5                |         |
| LANCASTER    | 4/5>          |                |          |        |                  | >6/2      | >3/18     |        | >3/23     | 3/15>     | 3/22-5/1  | 3/15-3/15 | 3/13-4/29 | >4/15               |         |
| LEBANON      |               |                |          |        |                  | >5/31     | >3/15     |        | >4/6      | 3/17>     | 3/13-5/10 |           | >4/18     |                     |         |
| LUZERNE      | 5/1>          |                | 5/4-5/31 | 3/1>   |                  |           |           | 3/1>   | >3/19     | 3/1>      | >3/16     |           |           | 3/1>                | 3/1>    |
| MCKEAN       |               |                |          | 3/12>  |                  |           |           |        | 3/24-5/10 | 3/15>     | 3/13-3/30 |           | 3/20-4/20 | 3/15>               |         |
| MERCER       |               |                |          | 3/12>  |                  |           | 3/22-3/23 |        | 3/4-5/17  |           | 3/16-3/23 |           | 3/16>     |                     |         |
| MONTOUR      |               |                |          | 3/14>  |                  | 2/14-4/3  |           |        | 3/11-3/20 | 3/13>     |           | 3/16-3/16 | 3/14-3/23 |                     |         |
| NORTHAMPTON  |               |                |          |        | 3/15-3/15        | >4/6      |           |        |           | 2/21>     | 1/25-3/17 |           | 2/25-4/30 |                     |         |
| PHILADELPHIA | 3/23-5/31     |                |          |        |                  | 3/16-4/5  |           |        |           | 3/8>      | 3/16-5/18 |           | 3/16-4/19 |                     |         |
| SCHUYLKILL   | 4/29-5/10     |                |          |        |                  | >4/5      |           |        | 3/23-4/5  |           |           |           | 3/12-4/1  | >3/16               |         |
| SOMERSET     |               |                |          | 3/8>   |                  | >1/28     |           |        | >4/20     | 3/16>     | 3/4-4/8   |           | 3/16-4/5  |                     |         |
| TIOGA        |               |                |          | 3/8>   |                  |           |           |        | 3/25-3/25 | 3/31>     |           |           | 3/12-3/20 |                     |         |
| VENANGO      | 5/24-5/24     |                |          | 3/8>   |                  |           |           |        | 3/3-3/11  | 3/11>     | 3/11-4/6  |           | 3/2-5/10  | >5/21               |         |
| WYOMING      |               |                | 4/16>    | 4/2>   |                  | >5/10     |           |        |           |           |           |           |           | >5/10               |         |

Two dates indicate first and last dates recorded. A date with a ">" after it indicates first date recorded. A date after a ">" indicates last date recorded.

SPRING MIGRATION TABLES - 2003

|              | TEAL        |           | SHOVELER<br>NORTHERN | PINTAIL<br>NORTHERN | TEAL<br>GREEN-<br>WINGED | CANVASBACK | REDHEAD   | DUCK        |             | SCAUP     |           | SURF      | SCOTER           |           | DUCK<br>LONG-TAILED<br>BUFFLEHEAD | GOLDFEY<br>COMMON |
|--------------|-------------|-----------|----------------------|---------------------|--------------------------|------------|-----------|-------------|-------------|-----------|-----------|-----------|------------------|-----------|-----------------------------------|-------------------|
|              | BLUE-WINGED | 3/17>     |                      |                     |                          |            |           | DUCK-NECKED | RING-NECKED | GREATER   | LESSER    |           | WHITE-<br>WINGED | BLACK     |                                   |                   |
| ALLEGHENY    |             | 3/17>     | 3/23-4/12            | 5/11-5/29           | 3/13>                    | 3/4-3/14   |           | 3/8-4/6     |             | >4/3      |           |           |                  | 3/9-3/27  | >4/14                             | >3/22             |
| ARMSTRONG    |             | 3/9-3/9   | 3/23-4/7             | 3/4-3/11            | 3/23-3/23                | 3/4-3/26   | 3/2-3/26  | 3/1-4/7     | 2/28-3/28   | 3/1-4/7   | 3/26-3/26 |           |                  | 3/23-4/7  | >4/7                              | >3/8              |
| BEDFORD      |             | 3/23>     | 3/29-4/16            | >4/12               | 3/21>                    | 3/9-3/23   | 3/9-3/9   | 3/9-4/22    | 1/5-4/18    | 3/9-4/18  |           |           | 5/17-5/18        | 1/5-3/29  | >4/6                              | >4/9              |
| BERKS        |             | 3/29>     | 3/22-4/5             | >3/26               | 3/15>                    | 3/29-4/5   |           | 3/9-5/17    | >3/23       | 4/5>      |           |           | 5/17>            | 3/29-3/30 | 3/15-5/3                          |                   |
| BRADFORD     |             |           |                      | >3/21               |                          |            |           | 3/21-4/1    |             |           |           |           |                  |           | >4/9                              | >3/21             |
| BUCKS        |             | 3/13-5/10 | >3/13                | >6/13               | 3/1-5/7                  | 2/23-3/19  | 2/22-4/22 | 3/9-6/12    | 2/23-5/10   | 3/11-3/27 |           |           | 3/11-3/27        | 3/2-4/19  | >5/10                             | >4/10             |
| BUTLER       |             | 4/12>     | 4/4-4/14             |                     |                          | 3/21-3/21  | 3/16-3/21 | 3/21-3/21   | 3/21-4/12   |           |           |           | 4/2-4/2          | 4/2-4/2   | >5/28                             | >3/21             |
| CAMBRIA      |             |           |                      |                     | 3/22-3/22                |            | 3/14-5/3  |             | 4/6-4/6     |           |           |           | 3/29-3/29        | 3/24-5/2  |                                   |                   |
| CENTRE       |             | 3/28-5/10 | >4/11                | 3/3-4/1             | >4/25                    | 3/7-3/29   | >4/19     | 3/8-4/15    | 3/4-4/25    | 4/19-5/18 |           |           | 3/20-4/19        | >4/19     | 3/23-3/23                         |                   |
| CHESTER      |             | 3/22>     | 3/26-3/26            | 3/1-4/3             | 3/11-4/16                | 3/15-3/22  | 4/15-4/15 | 2/26-4/28   | 2/1-4/30    | 4/22-4/22 |           |           | 3/26-3/26        | 3/5-5/8   | 3/1-4/6                           |                   |
| CLARION      |             |           | 4/5>                 | >4/26               |                          | 3/26>      | 3/26>     | 3/24>       | 3/26-4/13   |           |           |           | 3/26>            | >4/26     | >3/2                              |                   |
| CLINTON      |             |           |                      |                     | 3/30>                    | 3/10-3/14  | 3/13-3/14 | 1/12>       | 3/14>       |           |           |           | 3/26>            | 2/28-4/2  | 2/28-3/13                         |                   |
| CRAWFORD     |             | 3/30>     | 3/12-4/26            | >3/26               | 3/8>                     | 3/8-3/31   | 2/15-3/26 | 3/8-4/30    | 2/15-4/26   |           |           |           | 3/26>            | >4/26     | >4/14                             |                   |
| CUMBERLAND   |             | 3/28>     | >5/2                 | >4/28               | >5/11                    | 3/19-4/20  |           | >5/10       | 3/19-4/1    | 3/3-5/20  |           |           | 3/26>            | >5/12     | >4/22                             |                   |
| DAUPHIN      |             | 3/27>     | 3/28-4/6             | 3/9-5/10            | 3/12>                    | 3/12-3/29  | 2/2-3/29  | 3/9-4/6     | 2/1-4/14    | 2/1-4/14  | 3/29-4/15 |           | 3/29-4/6         | 3/14-4/5  | >6/1                              |                   |
| DELAWARE     |             |           | 4/1>                 | 3/2-3/13            | 3/13-4/20                | 3/9-3/13   | 3/9-3/9   | 3/9-3/27    | 3/28-3/28   | 3/13-3/13 |           |           | 3/29-4/15        | >5/10     | 3/9-3/9                           |                   |
| ERIE         |             | 3/30-5/15 | 3/30-5/1             | >4/1                | 3/1-5/15                 | >8/15      | >5/15     | >5/15       |             |           | 4/4-4/5   |           | 2/6-4/8          | 3/30-4/30 | >5/1                              |                   |
| FAYETTE      |             | 4/5>      |                      |                     |                          |            |           | 3/18-4/8    | 3/9-4/5     | 3/18-4/15 |           |           |                  |           | 3/18-3/29                         | 3/29-4/19         |
| FOREST       |             | 4/13-4/20 |                      |                     |                          |            |           | 3/2-3/24    | 3/9>        |           |           |           | 3/9>             | 3/9-3/24  | 4/13>                             |                   |
| FULTON       |             |           |                      |                     |                          |            |           | 3/18-6/15   |             | 3/22-4/11 |           |           |                  | 3/23-5/4  |                                   |                   |
| GREENE       |             | 3/29>     | 3/13>                | >3/15               | 3/15>                    |            | 3/13>     | 3/13>       |             | 3/22>     |           |           |                  | >3/24     |                                   |                   |
| HUNTINGDON   |             | 3/26-4/29 | 3/26-3/29            |                     | 3/23-4/13                | 4/7-4/10   | 4/1-4/10  | 3/15-4/26   | 4/10-4/10   | 3/15-4/18 | 4/1-4/1   |           |                  | 3/23-4/7  | >4/26                             | >3/4              |
| INDIANA      |             | 3/22-4/29 | 3/26-4/26            | 3/13-4/1            | 3/14-4/26                | 3/13-4/8   | 3/22-3/26 | 3/13-4/26   | 3/15-3/26   | 3/13-5/1  |           | 3/22-3/26 |                  | 3/26-3/26 | 3/17-4/30                         | 3/26-3/26         |
| LANCASTER    |             | 4/18>     | 3/13-4/25            | >4/5                | 3/13>                    | 3/9-4/5    | 3/1-3/23  | 3/1-5/10    | 3/29-5/4    | 3/1-4/5   | 3/30-4/22 |           | 4/5>             | 3/29-4/5  | >4/18                             | >5/31             |
| LEBANON      |             | 4/18-5/10 | 4/6-4/17             | >4/6                | >4/17                    |            |           | 3/21-5/10   | 3/29-4/5    | 3/29-4/5  |           |           | 3/29-4/26        | >5/10     | >3/30                             |                   |
| LUZERNE      |             |           |                      | >3/22               | 3/1-5/31                 | >3/21      | >3/18     | >5/10       | >3/4        | >4/8      |           |           |                  | >5/17     | >4/16                             |                   |
| MCKEAN       |             | 3/25-4/29 | 3/19-5/2             | 3/20-5/10           | 3/20-5/2                 |            | 3/25-4/8  | 3/15-4/15   | 3/24-4/15   | 3/24-4/4  | 3/24-3/26 |           |                  | 3/24-4/4  | 3/25-4/14                         | 3/13-4/14         |
| MERCER       |             | 4/6>      | 4/5-4/12             | 3/16>               | 3/15>                    | 3/4-3/4    | 3/22-4/3  | 3/23-4/5    | 4/5>        | 3/16-3/23 | 4/5-4/6   |           | 4/9-4/12         | 3/26-4/5  | 3/16-4/8                          | 3/16>             |
| MONTOUR      |             | 3/27>     |                      | 3/16-4/10           | 3/17-4/3                 | 3/9-4/30   | 2/20-3/11 | 3/16-4/4    | 3/29-3/30   | 3/29-3/30 |           |           | 3/29>            | >4/3      | 3/14>                             |                   |
| NORTHAMPTON  |             | 3/23-4/18 | 3/22-4/8             | 2/23-3/21           | 1/13-5/7                 | 3/9-4/30   | 2/20-3/11 | 2/21-6/1    | 1/21-4/7    | 2/16-6/13 |           |           | 3/10-3/21        | >5/2      | >3/17                             |                   |
| PHILADELPHIA |             | 3/29-4/13 | 3/13-4/19            | 3/14-4/15           | 3/15-4/25                | >3/1       | 4/13-4/13 | 3/9-4/13    | 3/29-3/29   | 3/12>     |           |           |                  | 3/10-4/18 | 3/1>                              |                   |
| SCHUYLKILL   |             | 3/23-4/1  | 3/15-3/15            | 3/9-3/10            | 3/9-3/30                 | 3/29-3/30  | 3/23-4/13 | >4/19       | 3/12-4/5    | 3/12-4/5  |           |           | 5/6-5/6          | 3/29-3/29 | 3/2-4/1                           | 3/2-4/5           |
| SOMERSET     |             | 3/16-5/1  | 4/6-6/1              | 3/19-3/26           | 3/16-5/1                 | 3/23-4/5   | 2/4-2/15  | 3/16-4/8    | 3/23-4/25   | 3/4-4/25  | 4/7-4/7   |           | 3/30-3/30        | 3/26-3/26 | >4/17                             | 3/4-3/4           |
| TIOGA        |             |           |                      | 3/30-3/30           |                          |            |           | 3/26-5/9    | 5/5-5/2     | 4/5-5/2   |           |           | 3/30-3/30        | 3/30-5/9  | >5/9                              |                   |
| VENANGO      |             | 3/21-3/21 | 3/11-3/21            | 3/2-3/2             | 3/14-4/6                 | 3/11-3/15  | >3/14     | 3/1-4/22    | 2/7-5/8     | 2/10-5/23 |           |           | 3/25-5/18        | 3/13-4/4  | >4/23                             | >5/13             |
| WYOMING      |             |           |                      |                     | 3/30-4/14                |            |           | 4/14>       | 3/24-4/24   |           |           |           | 4/22>            | 3/24-4/24 | 3/11-3/11                         |                   |

Two dates indicate first and last dates recorded. A date with a ">" after it indicates first date recorded. A date after a ">" indicates last date recorded.

SPRING MIGRATION TABLES - 2003

|              | Merganser |           | Duck      | Osprey    | Kite<br>Mississippi | Eagle<br>Bald | HARRIER<br>NORTHERN | HAWK<br>SHARP-<br>SHINNED | HAWK<br>COOPER'S | GOSHAWK<br>NORTHERN | RED-<br>SHOULDERED | BROAD-<br>WINGED | HAWK<br>RED-TAILED | ROUGH-<br>LEGGED |
|--------------|-----------|-----------|-----------|-----------|---------------------|---------------|---------------------|---------------------------|------------------|---------------------|--------------------|------------------|--------------------|------------------|
|              | Hooded    | Common    |           |           |                     |               |                     |                           |                  |                     |                    |                  |                    |                  |
| ALLEGHENY    |           | >3/16     | >4/23     | 3/29-4/30 | 3/30-4/30           |               |                     |                           |                  |                     |                    | 4/16>            |                    |                  |
| ARMSTRONG    | 3/4>      | >3/23     | 3/1-4/7   | 3/9-3/26  |                     |               |                     |                           |                  |                     |                    |                  |                    |                  |
| BEDFORD      | 3/9>      |           | 3/21-6/4  | 3/29>     | 3/25>               | 3/8-5/3       |                     |                           |                  |                     |                    | 4/6>             |                    | >4/25            |
| BERKS        | 3/9>      |           | 3/7-5/3   | 3/23>     | 4/5>                | 4/28-5/17     |                     |                           |                  |                     |                    | 4/19>            |                    |                  |
| BRADFORD     | 3/21>     |           | 4/1>      | 5/5>      |                     |               |                     |                           |                  |                     |                    | 5/7>             |                    | >3/25            |
| BUCKS        | 2/27-5/25 |           | 2/21-5/26 | 3/19>     | 6/7-6/7             | >5/19         |                     |                           |                  | 4/9-4/9             |                    | 4/14>            |                    | >3/1             |
| BUTLER       | 3/21>     |           | 3/21-4/12 | 3/21>     |                     |               |                     |                           |                  |                     |                    | 4/19>            |                    |                  |
| CAMBRIA      | 3/14-4/3  | 4/6-4/6   | 3/30-5/10 | 5/3-5/3   | 3/26-5/15           | 3/26>         | 3/2>                | 3/4>                      | 3/4>             | 4/18-4/18           | 3/16>              | 4/22>            | 3/2>               |                  |
| CENTRE       | >5/10     | >5/21     | 3/5-5/31  | 3/16-5/8  | 3/25-5/10           |               |                     |                           |                  |                     |                    | 4/6>             |                    | >3/2             |
| CHESTER      | 3/11-4/11 | 2/26-5/10 | 3/15-4/3  | 2/26-5/15 | 3/23>               | 5/20-5/20     |                     |                           |                  |                     |                    | 4/16>            |                    |                  |
| CLARION      | 3/20>     |           | 3/26-4/13 | 3/24>     | 4/5>                |               |                     |                           |                  |                     |                    |                  |                    | >2/14            |
| CLINTON      | 2/28-3/18 | 2/26>     | 3/26>     | 4/1-5/17  |                     | >5/17         |                     | 1/4>                      | 1/4>             | 6/1>                | 3/17>              | 4/29>            |                    |                  |
| CRAWFORD     | 2/15>     |           | 3/8-4/30  | 3/8>      | 4/8>                |               |                     |                           |                  |                     |                    |                  |                    | >4/26            |
| CUMBERLAND   | 3/1>      | 3/1-4/22  |           | 3/3>      | 4/15-5/28           |               | 3/1>                | 3/1-5/22                  | 3/1>             |                     | 3/1>               | 4/6>             | 3/1>               | >3/28            |
| DAUPHIN      |           |           | 3/16-4/27 | 3/14-5/10 | 4/15-6/2            |               |                     |                           |                  | 3/31>               |                    | 4/15>            |                    |                  |
| DELAWARE     |           | >4/1      | 3/27-4/16 | 3/10-4/11 | 3/13>               |               | 3/16-4/27           | 3/2-4/30                  | 3/15-3/15        | 3/15-3/15           | 3/15-4/15          | 4/12>            |                    |                  |
| ERIE         |           |           |           | >5/15     | 3/30-5/15           |               |                     |                           |                  |                     |                    | 4/30>            |                    | >4/1             |
| FAYETTE      | 3/8>      | 3/18-5/4  | 3/9-4/22  | 3/29-4/5  |                     |               |                     |                           |                  |                     |                    | 4/27>            |                    |                  |
| FOREST       | 3/2>      | 3/24>     | 3/2-3/9   |           | 4/28>               |               |                     |                           |                  |                     |                    | 4/20>            |                    | >3/16            |
| FULTON       | 3/15>     | 4/11>     | 3/15-3/29 | 4/11>     | 3/23-5/19           |               | 3/15-5/15           | 3/18>                     | 3/18>            |                     | 3/15>              | 5/4-5/10         | 3/15>              |                  |
| GREENE       | 3/13>     |           |           |           |                     |               |                     |                           |                  |                     |                    | 4/19>            |                    |                  |
| HUNTINGDON   | >4/24     | >4/26     | 3/4-5/18  | 3/29-5/24 | 3/25-5/15           |               | 3/8-4/30            |                           |                  |                     |                    | 4/6>             |                    | >3/16            |
| INDIANA      | 3/13>     | 3/26-3/26 | 3/13-5/17 | 3/17-4/29 | 4/1-5/20            |               |                     |                           |                  |                     |                    | 4/16>            |                    | >3/15            |
| LANCASTER    | 3/9-4/12  | >5/26     | 3/1-5/26  | 3/9-4/22  | 3/18>               |               |                     |                           |                  |                     |                    | 4/19>            |                    | >4/12            |
| LEBANON      | >5/10     | >5/10     | 3/29-4/11 | 4/11-5/10 | 4/8>                |               | >4/13               |                           |                  |                     |                    | 5/10>            |                    |                  |
| LUZERNE      | 3/1>      | 3/1>      | 3/29-4/10 | 3/1-5/14  | 4/5>                | 3/1>          | 3/1>                | 3/1>                      | 3/1>             | 3/1>                | 3/1>               | 4/19>            | 3/1>               | >4/12            |
| MCKEAN       | 3/1>      | 3/1>      | 3/1-4/4   | 3/26-3/28 | 3/25>               |               | >4/13               |                           |                  |                     |                    | 4/14>            |                    | >4/13            |
| MERCER       | 3/16>     | 3/16>     | 3/16-4/5  | 3/29-4/12 | 3/23>               |               | >5/1                |                           |                  |                     |                    | 4/20>            |                    |                  |
| MONTOUR      | 3/14-4/7  | >4/10     | 3/2-4/3   | 3/19>     | 4/1>                | 2/25>         |                     |                           |                  |                     |                    |                  |                    | >3/19            |
| NORTHAMPTON  | 2/24-3/31 |           | 2/25-3/16 | 3/29-4/8  | 3/29>               |               | >5/24               |                           |                  |                     |                    | 4/15>            |                    | >3/14            |
| PHILADELPHIA | >5/10     | >4/15     | 3/14>     | 3/16-4/13 | 3/2>                |               | 3/11-4/15           | 3/8>                      | 3/8>             |                     | >4/5               | >4/25            |                    | 2/4-2/4          |
| SCHUYLKILL   | 2/6-4/25  | >4/19     | 4/5-4/18  | 4/18-5/8  | 3/17-5/26           |               | 2/15-5/10           |                           |                  |                     |                    | 4/13>            |                    |                  |
| SOMERSET     | 3/25-5/1  | 3/4-3/26  | 3/25-5/1  | 3/26-5/14 | 3/26>               |               | 2/4>                | 3/21>                     |                  |                     | 3/8>               | 4/15>            |                    |                  |
| TIOGA        | 3/8>      |           | 3/8-3/8   | 4/7-4/7   | 3/28>               |               |                     |                           |                  |                     |                    |                  |                    | >4/9             |
| VENANGO      | 2/7>      |           | 2/7-4/24  | 3/28-5/28 | 4/6-5/28            |               | 3/1>                | 2/14>                     | 2/10>            | 2/23-3/12           | 5/25>              | 4/21>            | 3/1>               | >4/12            |
| WYOMING      | 3/24-5/10 |           |           | 4/14>     |                     |               | 5/10>               |                           |                  | 5/10>               | 5/10>              | 5/10>            |                    | >3/16            |

Two dates indicate first and last dates recorded. A date with a ">" after it indicates first date recorded. A date after a ">" indicates last date recorded.

SPRING MIGRATION TABLES - 2003

|              | EAGLE<br>GOLDEN | KESTREL<br>AMERICAN | MERLIN    | FALCON<br>PEREGRINE | RAIL<br>VIRGINIA | SORA      | MOORHEN<br>COMMON | COOT<br>AMERICAN | CRANE<br>SANDHILL | PLOVER            |                    | KILLDEER | YELLOWLEGS      |           |
|--------------|-----------------|---------------------|-----------|---------------------|------------------|-----------|-------------------|------------------|-------------------|-------------------|--------------------|----------|-----------------|-----------|
|              |                 |                     |           |                     |                  |           |                   |                  |                   | BLACK-<br>BELLIED | AMERICAN<br>GOLDEN |          | SEMPAL<br>MATED | GREATER   |
| ALLEGHENY    |                 |                     | >3/28     |                     | 5/4>             | 5/4>      |                   | >3/23            |                   |                   |                    | 3/6>     | 4/13-5/19       | 5/1-5/19  |
| ARMSTRONG    |                 |                     |           |                     |                  |           |                   | 3/8-3/23         |                   |                   | 5/10-5/10          | 3/8>     | 4/2-4/2         |           |
| BEDFORD      | 3/7-4/30        |                     | 3/14-4/25 |                     | 4/17>            | 4/17>     | 4/30>             | 3/21>            |                   |                   | 5/10-5/10          | 3/16>    | 4/1-6/2         | 4/9-6/2   |
| BERKS        |                 |                     | 3/5-3/9   |                     | 5/3>             | 5/3>      | 5/17>             | 4/19>            |                   |                   | 5/16-5/17          | 3/1>     | 5/8-5/11        | 4/2-4/20  |
| BRADFORD     |                 |                     |           |                     | 6/3>             | 6/3>      |                   |                  |                   |                   |                    | 3/22>    |                 |           |
| BUCKS        |                 |                     | >5/25     |                     | 4/19>            | 5/3>      | 5/10-5/12         | 3/2-4/24         |                   |                   | 5/26-5/26          | 3/1>     | 3/29-6/6        | 4/15-5/10 |
| BUTLER       |                 |                     |           |                     |                  |           |                   | 3/16>            | 3/1>              |                   |                    |          |                 |           |
| CAMBRIA      |                 | 3/2>                |           |                     | 5/3>             | 5/10>     | 4/3-4/29          |                  |                   |                   |                    | 3/15>    |                 |           |
| CENTRE       | 3/14-3/14       |                     |           |                     | 4/19>            | 4/19>     | 3/9-3/13          |                  |                   |                   | 5/28-5/31          |          |                 | 4/29-5/10 |
| CHESTER      |                 |                     | 4/22-4/22 | 5/10-5/21           | 5/10>            | 5/10>     | 2/26-4/26         |                  | 4/21-4/21         |                   | 5/14-5/15          | 3/1>     | 4/22-5/10       | 5/7-5/10  |
| CLARION      |                 |                     |           |                     | 5/14>            | 5/14>     | 4/12>             |                  |                   | 4/19-6/3          |                    | 1/29>    | 5/10>           |           |
| CLINTON      |                 |                     |           |                     | 5/10>            | 5/10>     |                   |                  |                   |                   |                    | 3/8>     | 4/9>            |           |
| CRAWFORD     | 4/6>            |                     | 3/15>     |                     | 4/9>             | 4/28>     | 4/28>             | 3/6>             | 3/17>             |                   |                    | 3/6>     | 3/30-4/30       | 4/19-4/30 |
| CUMBERLAND   |                 | 3/1>                |           |                     |                  |           |                   |                  |                   |                   |                    | 3/1>     | 3/29-5/10       | 3/29-5/10 |
| DAUPHIN      |                 |                     |           |                     | 5/15>            |           | 5/7-5/10          | 3/15-4/6         | 4/15-6/6          |                   | 5/10>              | 3/7>     | 3/27-5/10       | 4/21-5/10 |
| DELAWARE     |                 |                     | 3/3-4/12  |                     |                  |           |                   |                  | 3/27-3/27         |                   |                    |          | 4/1-5/9         |           |
| ERIE         |                 |                     | 4/2-5/18  | 4/12>               | 5/1>             | 5/1>      | 5/1>              | >5/15            | 3/27-4/30         | 4/30>             | 5/15>              | 3/1>     | 4/1-5/15        | 4/30-5/15 |
| FAYETTE      |                 |                     |           |                     |                  |           |                   |                  |                   |                   |                    | 3/9>     |                 | 5/4>      |
| FOREST       |                 |                     |           |                     |                  |           |                   | 4/20>            |                   |                   |                    | 3/17>    | 4/20>           |           |
| FULTON       |                 |                     |           |                     |                  |           |                   | 4/11>            |                   |                   |                    | 2/24>    |                 | 5/10>     |
| GREENE       |                 |                     |           |                     |                  |           |                   | 3/15>            |                   |                   |                    | 2/28>    | 3/22>           |           |
| HUNTINGDON   | 2/20-4/29       |                     | 4/24-4/25 |                     |                  | 5/24-5/24 |                   |                  |                   |                   |                    | 3/14>    | 3/29-4/27       | 5/12-5/18 |
| INDIANA      |                 |                     |           |                     |                  |           |                   | 3/14-4/30        |                   |                   | 5/10-5/15          | 3/4>     | 4/15-5/10       | 4/30-5/10 |
| LANCASTER    |                 |                     | 4/24-5/10 |                     | 4/16>            | 5/3>      |                   | 3/11-4/22        |                   | 5/4-6/1           | 5/2-6/2            | 3/4>     | 4/13-6/4        | 4/30-5/26 |
| LEBANON      |                 |                     |           |                     | 5/4>             | 5/4>      |                   | 3/30-4/11        |                   |                   | 5/3>               | 3/31>    | 3/31-4/30       | 3/31-5/3  |
| LUZERNE      |                 | 3/1>                | >4/16     | 3/1>                | 5/10>            | 5/8>      | >5/6              | >4/30            |                   |                   | 5/8-5/16           | 3/1>     | 4/20-5/17       | 5/2-5/20  |
| MCKEAN       | 2/8-3/28        | 2/1-6/30            | 4/25-4/25 | 4/29>               | 4/29>            | 4/29-5/30 | 3/25-3/31         | 3/25-3/31        |                   |                   |                    | 3/11>    | 3/29-5/14       | 5/3-5/14  |
| MERCER       |                 |                     |           |                     | 5/3>             | 5/3>      | 5/3>              | 3/15>            | 4/4>              |                   |                    | 3/4>     | 4/27>           | 5/4>      |
| MONTOUR      |                 |                     |           |                     |                  |           |                   |                  |                   |                   |                    | 3/23>    |                 |           |
| NORTHAMPTON  |                 |                     | >1/9      | 3/9>                | 5/18>            |           |                   | 2/14-2/21        |                   | 5/26-5/31         | 5/19-6/1           | 3/15>    | 3/23-5/28       | 5/9-5/10  |
| PHILADELPHIA |                 |                     | 4/20-4/25 |                     |                  | 5/1-5/10  | 4/20>             | 3/23-4/19        |                   |                   | 5/10>              |          | 3/23-5/17       | 4/2-5/10  |
| SCHUYLKILL   |                 |                     | 2/23-5/7  | 5/10-5/10           |                  |           |                   |                  |                   |                   |                    | 3/5>     |                 |           |
| SOMERSET     |                 |                     |           |                     | 4/21>            |           |                   | 2/25-5/12        |                   | 5/31-5/31         | 5/14-5/14          | 3/8>     | 4/6-5/14        | 3/27-5/14 |
| TIOGA        |                 | 3/31>               |           |                     | 4/5>             | 5/23>     |                   | 4/9>             |                   |                   |                    | 3/15>    | 3/30-3/30       |           |
| VENANGO      |                 |                     | 2/27-2/27 |                     | 5/7>             | 5/24>     |                   | 3/28-5/9         |                   | 5/12-5/12         | 5/12-5/31          | 3/9>     | 4/22-5/26       | 4/22-5/14 |
| WYOMING      |                 |                     |           |                     | 4/14>            |           |                   |                  |                   |                   |                    | 3/31>    |                 | 5/10-5/10 |

Two dates indicate first and last dates recorded. A date with a ">" after it indicates first date recorded. A date after a ">" indicates last date recorded.

SPRING MIGRATION TABLES - 2003

|              | SANDPIPER |           | SANDPIPER |           | WILLET | SANDPIPER |       | WHIMBREL  | TURNSTONE         |         | KNOT<br>RED | SANDERLING | SEMIPAL<br>MATED | WESTERN | SANDPIPER |                  |           | PECTORAL  | DUNLIN    |          |
|--------------|-----------|-----------|-----------|-----------|--------|-----------|-------|-----------|-------------------|---------|-------------|------------|------------------|---------|-----------|------------------|-----------|-----------|-----------|----------|
|              | SOLITARY  | SANDPIPER | SPOTTED   | UPLAND    |        | RUDDY     | RUDDY |           | WHITTE-<br>RUMPED | BAIRD'S |             |            |                  |         | LEAST     | WHITE-<br>RUMPED | BAIRD'S   |           |           | PECTORAL |
| ALLEGHENY    | 5/3-5/26  |           | 4/14>     |           |        |           |       |           |                   |         |             |            | 5/9-5/18         |         |           | 5/1-5/25         | 5/8>      | 3/25-5/1  | 4/21-5/26 |          |
| ARMSTRONG    | 4/30-4/30 |           | 5/22>     |           |        |           |       |           |                   |         |             |            |                  |         |           |                  |           |           |           |          |
| BEDFORD      | 4/22-5/10 |           | 4/17>     |           |        |           |       | 6/1-6/4   |                   |         |             |            | 5/17-6/4         | 6/4-6/4 |           | 6/4-6/4          |           |           | 5/24-6/4  |          |
| BERKS        | 4/23-5/8  |           | 4/23>     |           |        |           |       | 5/24>     |                   |         |             |            | 5/26-5/26        |         |           | 5/3-5/26         |           | 3/13-5/3  | 4/19-5/26 |          |
| BRADFORD     |           |           | 5/10>     |           |        |           |       |           |                   |         |             |            |                  |         |           |                  |           |           |           |          |
| BUCKS        | 4/15-5/27 |           | 4/17>     |           |        |           |       |           |                   |         |             |            | 5/10-5/28        |         |           | 4/15-5/27        | 6/1-6/4   | 3/23-5/10 | 5/18-5/25 |          |
| BUTLER       | 4/26-5/10 |           |           | 4/26>     |        |           |       |           |                   |         |             |            |                  |         |           |                  |           |           |           |          |
| CAMBRIA      | 4/28-5/19 |           | 4/27>     |           |        |           |       |           |                   |         |             |            |                  |         |           |                  |           |           | 5/13-5/13 |          |
| CENTRE       | 4/28-5/10 |           | 4/15>     | 4/13-4/13 |        |           |       | 5/31-6/1  |                   |         |             |            |                  |         |           | 5/10-5/10        |           | 4/16-4/16 | 4/7-6/1   |          |
| CHESTER      | 5/2-5/15  |           | 4/28>     |           |        |           |       |           |                   |         |             |            | 5/4-5/10         |         |           | 5/9-5/15         |           | 5/10-5/10 |           |          |
| CLARION      | 5/10>     |           | 5/7>      | 4/19>     |        |           |       |           |                   |         |             |            | 6/1>             |         |           |                  |           | 4/22>     |           |          |
| CLINTON      |           |           | 5/2>      |           |        |           |       |           |                   |         |             |            |                  |         |           |                  |           |           |           |          |
| CRAWFORD     | 5/24>     |           | 4/20>     |           |        |           |       |           |                   |         |             |            | 4/30>            |         |           | 4/30>            |           | 4/19-4/30 | 4/19-4/30 |          |
| CUMBERLAND   | 4/20-5/22 |           | 5/2>      |           |        |           |       |           |                   |         |             |            | 5/12-5/12        |         |           | 5/12-5/12        |           | 3/28-5/10 | 4/12-5/10 |          |
| DAUPHIN      | >5/10     |           | 4/16>     |           |        |           |       | 5/23>     |                   |         |             |            |                  |         |           | 5/1-5/10         |           | 3/27-5/3  | 4/14-6/1  |          |
| DELAWARE     |           |           | 5/1>      |           |        |           |       |           |                   |         |             |            |                  |         |           | 5/9-5/12         |           |           |           |          |
| ERIE         | 4/30-5/15 |           | 4/30>     |           |        |           |       | 4/27-5/30 |                   |         |             |            | 5/15>            |         |           | 5/1>             |           | 4/1-5/1   | 4/30>     |          |
| FAYETTE      |           |           | 5/4>      |           |        |           |       |           |                   |         |             |            |                  |         |           |                  |           |           |           |          |
| FOREST       |           |           |           |           |        |           |       |           |                   |         |             |            |                  |         |           |                  |           |           |           |          |
| FULTON       | 5/10-5/18 |           | 5/10-5/18 |           |        |           |       |           |                   |         |             |            |                  |         |           |                  |           |           |           |          |
| GREENE       |           |           | 4/26>     |           |        |           |       |           |                   |         |             |            |                  |         |           |                  |           |           |           | 5/10>    |
| HUNTINGDON   | 5/2-5/18  |           | 4/16>     |           |        |           |       |           |                   |         |             |            |                  |         |           | 5/10-5/13        |           | 3/26-3/27 |           |          |
| INDIANA      | 5/3-5/18  |           | 4/19>     |           |        |           |       |           |                   |         |             |            | 5/25-5/25        |         |           | 5/1-5/16         |           | 4/8-4/8   | 5/8-5/25  |          |
| LANCASTER    | 4/30-5/10 |           | 4/16>     |           |        |           |       | 5/25-5/25 |                   |         |             | 5/22-6/1   | 5/21-6/1         |         |           | 4/19-6/3         | 5/6-6/1   | 3/23-5/11 | 4/19-6/1  |          |
| LEBANON      | 4/27-5/10 |           | 5/3>      |           |        |           |       |           |                   |         |             |            |                  |         |           | 4/30-5/10        |           | 4/30-5/3  | 5/3>      |          |
| LUZERNE      | 4/30-5/16 |           | 5/1>      |           |        |           |       |           |                   |         |             |            | 5/12-5/16        |         |           | 5/1-5/17         | >5/12     | 5/4-5/12  | 5/12-5/16 |          |
| MCKEAN       | 5/3-5/14  |           | 5/3-5/14  | 5/10-5/10 |        |           |       |           |                   |         |             |            |                  |         |           | 5/10-5/14        |           | 3/29-5/10 | 4/29-4/29 |          |
| MERCER       | 4/29-5/29 |           | 5/3>      |           |        |           |       |           |                   |         |             |            |                  |         |           |                  |           |           |           |          |
| MONTOUR      |           |           | 5/9>      |           |        |           |       |           |                   |         |             |            |                  |         |           |                  |           |           |           |          |
| NORTHAMPTON  | 4/30-5/26 |           | 5/2>      |           |        |           |       | 6/4-6/4   |                   |         |             |            | 5/26-5/26        |         |           | 5/4-5/26         |           | 3/25-4/18 | 5/7-5/28  |          |
| PHILADELPHIA | 4/20-5/17 |           | 5/4>      |           |        |           |       |           |                   |         |             |            |                  |         |           | 5/10-5/10        |           |           |           |          |
| SCHUYLKILL   | 4/30-5/20 |           | 4/26>     |           |        |           |       |           |                   |         |             |            |                  |         |           |                  |           |           |           |          |
| SOMERSET     | 5/4-5/14  |           | 4/22>     | 4/23>     |        |           |       |           |                   |         |             |            | 5/14-5/31        |         |           | 5/14-5/31        | 5/31-5/31 | 3/26-3/26 | 5/14-5/31 |          |
| TIOGA        |           |           | 5/2>      |           |        |           |       |           |                   |         |             |            |                  |         |           |                  |           | 3/30-3/30 |           |          |
| VENANGO      | 4/28-5/26 |           | 4/19-5/27 | 4/21>     |        |           |       |           |                   |         |             |            | 5/18-5/31        |         |           | 5/5-5/18         |           | 4/22-5/6  | 5/10-5/18 |          |
| WYOMING      | 5/10-5/10 |           | 5/5>      |           |        |           |       |           |                   |         |             |            |                  |         |           |                  |           |           |           |          |

Two dates indicate first and last dates recorded. A date with a ">" after it indicates first date recorded. A date after a ">" indicates last date recorded.

SPRING MIGRATION TABLES - 2003

|              | DOWITCHER    |           |       |          | WOODCOCK   |     | PHALAROPE |            | GULL     |             |             |           |           |                   |          |                 |
|--------------|--------------|-----------|-------|----------|------------|-----|-----------|------------|----------|-------------|-------------|-----------|-----------|-------------------|----------|-----------------|
|              | SHORT-BILLED | WILSON'S  | SNIBE | AMERICAN | RED-NECKED | RED | LAUGHING  | FRANKLIN'S | LITTLE   | BONAPARTE'S | RING-BILLED | HERRING   | ICELAND   | LESSER BLK-BACKED | GLAUCOUS | GR BLACK-BACKED |
| ALLEGHENY    |              | 3/31-4/19 |       | 3/15>    |            |     |           |            |          | 4/7-5/4     | >6/1        |           |           |                   |          |                 |
| ARMSTRONG    |              |           |       |          |            |     |           |            |          | 3/23-4/7    | >4/7        |           |           |                   |          |                 |
| BEDFORD      | 6/4-6/4      | 3/16>     |       | 3/16>    |            |     |           |            |          | 3/29-5/4    |             |           |           |                   |          |                 |
| BERKS        | 5/24-5/26    | >4/5      |       | 3/13>    |            |     |           |            |          | 3/30-5/3    |             |           |           |                   |          | >4/19           |
| BRADFORD     |              |           |       | 3/15>    |            |     |           |            |          | 3/13>       |             |           |           |                   |          |                 |
| BUCKS        | 5/9-5/26     | 3/21-5/12 |       | 3/12>    | 5/9-5/28   |     | 3/29>     | 4/10-4/11  |          | 3/19-5/26   |             | >5/9      |           | >5/1              |          | >6/30           |
| BUTLER       |              |           |       | 3/1>     |            |     |           |            |          |             |             |           |           |                   |          |                 |
| CAMBRIA      |              |           |       | 3/22>    |            |     |           |            |          | 4/5-5/1     | 3/11-5/29   | 4/5-4/5   |           |                   |          |                 |
| CENTRE       |              | >5/10     |       | 3/16>    |            |     |           |            |          | 3/23-4/29   |             |           |           |                   |          |                 |
| CHESTER      |              | 2/1-5/10  |       | 3/16>    | 4/20-4/20  |     |           |            |          | 3/26-4/16   |             |           |           |                   |          |                 |
| CLARION      |              |           |       | 3/21>    |            |     |           |            |          | 3/12-5/10   |             |           |           |                   |          |                 |
| CLINTON      |              | 4/15>     |       | 3/25>    |            |     |           |            |          | 3/26-3/30   | 3/26-4/14   |           |           |                   |          | 4/14>           |
| CRAWFORD     |              | 4/19>     |       |          |            |     |           |            |          | 3/26-4/14   |             |           |           |                   |          |                 |
| CUMBERLAND   |              | 3/1>      |       | 3/16>    |            |     |           |            | 4/2-4/5  | 3/28-6/1    | 3/1>        | 3/1>      |           |                   |          | 3/1>            |
| DAUPHIN      |              | 3/23-5/10 |       | 3/14>    |            |     |           |            |          | 4/12-4/12   |             |           |           |                   |          |                 |
| DELAWARE     |              | 3/29-4/12 |       | 3/1>     |            |     | 3/1>      |            | 4/5-4/12 | 3/15>       |             |           | 3/14-5/11 | 3/11-4/21         | 3/6-5/13 |                 |
| ERIE         |              | 4/1>      |       | 3/1>     |            |     |           |            |          |             |             |           |           |                   |          |                 |
| FAYETTE      |              | 4/10>     |       | 3/29>    |            |     |           |            |          |             |             |           |           |                   |          |                 |
| FOREST       |              |           |       | 3/18>    |            |     |           |            |          | 4/9-5/10    |             |           |           |                   |          |                 |
| FULTON       |              |           |       | 3/8>     |            |     |           |            |          | 3/29-5/4    | 3/23>       |           |           |                   |          |                 |
| GREENE       |              | 3/22>     |       |          |            |     |           |            |          |             |             |           |           |                   |          |                 |
| HUNTINGDON   |              | 3/20-5/13 |       | 3/12>    |            |     |           |            |          | 3/26-5/10   | >5/12       | 3/16-5/10 |           |                   |          |                 |
| INDIANA      |              | 2/3-4/22  |       | 3/9>     |            |     | 5/13-5/13 |            |          | 3/23-5/13   | 3/5-5/27    | 3/11-4/22 |           |                   |          |                 |
| LANCASTER    | 5/26>        | >5/10     |       | 3/9>     | 6/2-6/4    |     | 5/26>     | 3/29-4/5   |          | 3/14-6/2    |             |           |           | >4/27             | >4/13    |                 |
| LEBANON      |              |           |       | 3/9>     |            |     |           |            |          |             |             | >3/30     |           |                   |          |                 |
| LUZERNE      |              |           |       |          |            |     |           |            |          | 3/29-5/8    | 3/1-5/30    | 3/1-5/28  |           |                   |          |                 |
| MCKEAN       |              | 3/20>     |       | 3/15>    |            |     |           | 4/4-4/4    |          | 3/25-5/1    | 3/16-5/15   | 3/16-5/10 | 4/14-4/14 |                   |          | >3/24           |
| MERCER       |              | 3/19>     |       | 3/12>    |            |     |           |            |          | 3/23-4/5    |             |           |           | 4/8>              |          |                 |
| MONTOUR      |              |           |       | 3/21>    |            |     |           |            |          |             |             |           |           |                   |          |                 |
| NORTHAMPTON  | 5/26-5/26    | 3/26-5/10 |       | 3/22>    | 5/25-5/26  |     |           |            |          | 3/30-6/5    | >6/7        | >5/10     | >1/30     | >6/7              | >2/2     | >6/4            |
| PHILADELPHIA |              | 3/15-5/3  |       | 3/7>     |            |     | 3/1-6/30  |            |          | 4/1-4/25    |             |           |           |                   |          |                 |
| SCHUYLKILL   |              | 3/17-5/4  |       | 3/2>     |            |     |           |            |          |             |             |           |           |                   |          |                 |
| SOMERSET     |              | 3/16>     |       | 3/15>    |            |     |           |            |          | 3/21-4/25   | 3/5>        | 3/20-3/31 |           |                   |          | 3/20-3/20       |
| TIOGA        |              | 4/5>      |       | 4/2>     |            |     |           |            |          | 3/28-5/2    |             | 4/2>      |           |                   |          |                 |
| VENANGO      |              | 4/6-5/9   |       | 5/12>    |            |     |           |            |          |             | 3/4-5/28    | 3/11-4/22 |           |                   |          |                 |
| WYOMING      |              | 3/31>     |       | 3/24>    |            |     |           |            |          | 4/9>        | >4/29       |           |           |                   |          |                 |

Two dates indicate first and last dates recorded. A date with a ">" after it indicates first date recorded. A date after a ">" indicates last date recorded.

SPRING MIGRATION TABLES - 2003

|              | TERN      |           |           |          | CUCKOO    | YELLOW-BILLED | BARN      | OWL      |              |            | NIGHTHAWK COMMON | WHIP-POOR-WILL | SWIFT CHIMNEY | HUMMINGBIRD RUBY-THROATED |
|--------------|-----------|-----------|-----------|----------|-----------|---------------|-----------|----------|--------------|------------|------------------|----------------|---------------|---------------------------|
|              | CASPIAN   | COMMON    | FORSTER'S | LEAST    |           |               |           | BLACK    | BLACK-BILLED | LONG-EARED |                  |                |               |                           |
| ALLEGHENY    | 4/14-5/31 |           | 4/7-5/31  |          | 5/1>      | 5/16-5/19     |           |          |              | 5/1>       | 5/2>             | 4/23>          | 4/28>         |                           |
| ARMSTRONG    |           |           |           |          |           |               |           |          |              |            |                  | 4/28>          | 5/10>         |                           |
| BEDFORD      | 6/1-6/4   | 5/4-6/2   | 4/19-6/2  |          | 5/10>     | 6/6>          |           |          |              | 5/24>      |                  | 6/2>           | 4/20>         |                           |
| BERKS        | 4/12-5/25 |           | 5/7-5/7   |          | 5/7>      | 5/24-6/14     |           |          |              | 5/7>       | 4/28>            | 4/22>          | 4/27>         |                           |
| BRADFORD     |           |           |           |          | 6/7>      |               |           |          |              |            |                  | 4/30>          | 4/28>         |                           |
| BUCKS        | 5/2-5/26  | 5/25-5/26 | 5/10-5/26 |          | 5/8>      | 5/9-5/29      |           | >3/24    |              | 5/6-6/6    | 5/19-5/23        | 4/16>          | 4/27>         |                           |
| BUTLER       | 5/5-5/5   |           | 4/25-4/25 |          | 5/8>      |               |           |          |              | 5/22>      |                  | 4/24>          | 5/1>          |                           |
| CAMBRIA      |           |           | 5/18-5/18 |          | 5/15>     | 5/8-5/8       |           |          |              | 5/10>      |                  | 4/22>          | 4/30>         |                           |
| CENTRE       | 4/8-5/8   | 4/8-4/22  | 5/6-5/6   |          | 5/8>      | 5/26-5/27     |           |          |              | 5/7>       | 4/28>            | 4/22>          | 4/25>         |                           |
| CHESTER      |           |           | 4/5-5/1   |          | 5/7>      | 5/8-5/8       |           |          |              | 4/29>      | 5/14>            | 4/29>          | 4/25>         |                           |
| CLARION      |           | 5/5>      | 5/5>      |          | 5/7>      | 5/5>          |           |          |              | 5/13>      | 4/29>            | 4/29>          | 4/28>         |                           |
| CLINTON      |           |           | 5/18>     |          | 6/6>      |               |           |          |              | 6/5>       | 4/28>            | 4/28>          | 4/28>         |                           |
| CRAWFORD     | 4/24>     |           |           |          | 5/19>     | 5/26>         |           |          |              | 5/19>      |                  | 5/22>          | 5/26>         |                           |
| CUMBERLAND   | 4/20-5/10 |           |           |          | 5/8>      |               | 3/1>      |          |              | 5/4>       | 4/22>            | 4/15>          | 4/22>         |                           |
| DAUPHIN      | 4/13-4/27 | 4/15-6/1  | 4/13-6/1  |          | 5/2>      | 5/8-6/1       |           |          |              | 5/3>       | 5/10>            | 4/15>          | 4/28>         |                           |
| DELAWARE     |           | 4/24-5/9  | 4/1>      |          | 5/17-5/31 |               |           |          |              | 5/19>      |                  | 4/15>          | 5/1>          |                           |
| ERIE         | 3/28>     | 4/15>     | 4/30-6/5  |          | 5/1>      | 5/12>         |           | 3/2-4/27 | 3/16-4/21    | 5/1>       | 4/15>            | 5/1>           | 5/1>          |                           |
| FAYETTE      |           |           |           |          |           |               |           |          |              |            |                  | 4/27>          | 5/3>          |                           |
| FOREST       |           | 5/10>     |           |          |           | 5/10>         |           |          |              |            | 5/10>            | 5/10>          | 4/30>         |                           |
| FULTON       |           |           | 5/4>      |          |           |               |           |          |              |            | 5/15>            | 5/10>          |               |                           |
| GREENE       |           |           |           |          |           |               |           |          |              | 5/24>      |                  | 4/27>          | 4/21>         |                           |
| HUNTINGDON   | 4/22-4/22 | 5/18-5/18 | 5/10-5/24 |          | 5/18>     | 6/1-6/1       |           |          |              | 5/11>      | 5/2>             | 4/20>          | 4/28>         |                           |
| INDIANA      | 4/15-5/10 | 5/12-5/27 | 4/15-5/17 |          | 5/7>      | 5/12-6/3      |           |          |              | 5/10>      | 5/10>            | 4/23>          | 5/2>          |                           |
| LANCASTER    | 4/12-6/2  | 5/21-6/1  | 5/10-6/1  | 5/26-6/1 | 5/9>      | 5/21-6/1      |           |          |              | 5/25>      |                  | 4/14>          | 4/21>         |                           |
| LEBANON      | 4/13>     |           |           |          |           |               |           |          |              | 5/17>      | 5/17>            | 4/23>          | 5/2>          |                           |
| LUZERNE      |           | 5/10-5/22 |           |          | 5/10>     |               |           |          |              | 5/2>       | 4/28>            | 4/20>          | 5/3>          |                           |
| MCKEAN       | 5/7-5/7   |           | 4/28-5/5  |          | 5/17>     | 5/15>         |           |          |              | 5/10>      | 5/31>            | 4/15>          | 5/3>          |                           |
| MERGER       | 4/15>     | 5/10>     | 4/8>      |          | 5/3>      |               |           |          |              | 5/28>      |                  | 4/16>          | 5/6>          |                           |
| MONTOUR      |           |           |           |          | 5/14>     |               |           |          |              |            |                  |                | 5/8>          |                           |
| NORTHAMPTON  | 5/25-6/1  |           | 5/9-5/25  |          | 5/8>      |               |           |          |              | 5/4>       | 5/10>            | 4/28>          | 4/20>         |                           |
| PHILADELPHIA | 4/27-4/27 | 4/24-5/11 | 4/6-5/25  |          | 5/10-5/27 | 5/11-5/11     |           |          |              | 5/8>       |                  | 4/22>          | 4/20>         |                           |
| SCHUYLKILL   |           |           |           |          | 5/10-5/30 | 5/9>          |           |          |              | 5/22>      | 5/10>            | 5/4>           | 4/28>         |                           |
| SOMERSET     | 4/6-6/3   | 6/3-6/3   | 4/17-4/21 |          | 5/20>     | 5/15-5/15     | 4/22-4/22 |          |              | 6/1>       | 6/11>            | 4/27>          | 5/2>          |                           |
| TIOGA        | 4/6>      |           |           |          | 5/24>     |               |           |          |              |            |                  | 5/9>           | 5/1>          |                           |
| VENANGO      | 4/21-4/22 | 5/5-5/28  | 5/4-5/12  |          | 5/10>     | 5/3-5/14      |           |          |              | 5/5>       |                  | 4/27>          | 4/30>         |                           |
| WYOMING      |           |           |           |          | 5/10>     |               |           |          |              | 5/25>      |                  | 5/8>           | 5/10>         |                           |

Two dates indicate first and last dates recorded. A date with a ">" after it indicates first date recorded. A date after a ">" indicates last date recorded.

SPRING MIGRATION TABLES - 2003

|              | KINGFISHER BELTED | WOODPECKER RED-HEADED | SAPSUCKER YELLOW-BELLIED | FLICKER NORTHERN | FLYCATCHER OLIVE-SIDED | WOOD-PEWEE EASTERN | FLYCATCHER     |           |       |           | PHOEBE EASTERN | FLYCATCHER GREAT CRESTED | KINGBIRD EASTERN | SHRIKE NORTHERN |
|--------------|-------------------|-----------------------|--------------------------|------------------|------------------------|--------------------|----------------|-----------|-------|-----------|----------------|--------------------------|------------------|-----------------|
|              |                   |                       |                          |                  |                        |                    | YELLOW-BELLIED | ACADIAN   | ALDER | WILLOW    |                |                          |                  |                 |
| ALLEGHENY    |                   | 4/7-5/1               | >4/30                    |                  | 5/24>                  | 5/4>               | 5/1>           | 5/24>     | 5/23> | 5/3>      | 3/15>          | 4/30>                    | 5/8>             |                 |
| ARMSTRONG    |                   |                       |                          |                  |                        | 5/22>              | 5/22>          | 5/22>     | 5/22> | 5/22>     | 3/23>          | 5/22>                    | 5/22>            |                 |
| BEDFORD      |                   |                       |                          |                  |                        | 5/10>              | 5/5>           | 5/17>     | 5/17> | 5/10>     | 4/10>          | 5/3>                     | 5/10>            |                 |
| BERKS        |                   |                       |                          |                  | 5/25-5/25              | 5/10>              | 5/11-5/13      | 5/17>     | 5/17> | 5/1-5/18  | 3/15>          | 5/3>                     | 4/29>            | >3/14           |
| BRADFORD     |                   |                       |                          |                  |                        | 5/10>              |                | 5/22>     | 5/25> | 5/7>      | 3/17>          | 4/30>                    | 5/3>             |                 |
| BUCKS        |                   | 4/29>                 | >5/12                    | 2/1>             | 5/13-5/27              | 5/11>              | 5/9>           | 5/24-6/2  | 4/30> | 5/10>     | 3/12>          | 4/29>                    | 4/26>            |                 |
| BUTLER       |                   |                       |                          |                  |                        | 5/10>              | 5/1>           | 5/10>     | 5/10> | 4/30>     | 3/16>          | 5/8>                     | 5/8>             |                 |
| CAMBRIA      |                   | 5/22-5/28             | 3/1>                     | 3/11>            |                        | 5/4>               | 5/20>          | 5/24>     | 5/24> | 5/10>     | 3/24>          | 5/7>                     | 5/4>             |                 |
| CENTRE       |                   |                       | >5/13                    |                  | 5/22-6/2               | 5/10>              | 5/10>          | 5/20>     | 5/18> | 4/30>     | 3/16>          | 5/1>                     | 4/30>            | >3/5            |
| CHESTER      |                   |                       |                          |                  |                        | 5/10>              | 5/7>           |           | 5/7>  |           | 3/17>          | 5/1>                     | 4/29>            |                 |
| CLARION      |                   | 5/11>                 | 4/4>                     | 3/29>            |                        | 5/10>              |                |           | 5/10> | 5/8>      | 3/21>          | 5/2>                     | 5/1>             | >2/20           |
| CLINTON      |                   | 6/6>                  | 2/9>                     | 3/29>            | 6/6>                   | 5/16>              | 6/18>          | 6/8>      | 6/8>  | 6/6>      | 3/16>          | 5/6>                     | 5/15>            |                 |
| CRAWFORD     |                   |                       |                          |                  |                        | 6/4>               | 5/24>          | 5/26>     | 5/26> | 5/24>     | 3/15>          | 5/22>                    | 5/22>            | >3/5            |
| CUMBERLAND   |                   | 3/1>                  | 3/1-4/28                 | 3/1>             | 5/10-5/25              | 5/10>              | 5/12-5/12      | 5/10>     | 5/10> | 4/28-5/12 | 3/19>          | 4/28>                    | 4/22>            |                 |
| DAUPHIN      |                   | 5/3>                  | >3/10                    |                  | 5/29>                  | 4/29>              | 5/8>           | 5/10>     | 5/10> | 4/30>     | 3/16>          | 4/28>                    | 4/28>            |                 |
| DELAWARE     |                   |                       | >4/13                    |                  | 5/20-5/20              | 5/11>              | 5/13>          |           | 5/28> | 5/10-5/30 | 3/14>          | 5/4>                     | 4/29>            |                 |
| ERIE         |                   |                       | 3/30>                    |                  | 5/18-5/24              | 5/1>               | 5/15>          | 5/30>     | 5/15> | 5/1>      | 3/15>          | 4/30>                    | 5/1>             | 2/1-4/2         |
| FAYETTE      |                   |                       |                          |                  |                        |                    | 5/7>           |           |       | 5/3>      | 3/18>          |                          | 5/10>            |                 |
| FOREST       |                   |                       | 5/10>                    | 3/30>            |                        | 5/27>              |                |           |       | 5/10>     | 4/4>           |                          | 5/4>             |                 |
| FULTON       |                   | 3/18>                 |                          |                  |                        | 5/18-5/26          | 5/10>          |           | 5/27> |           | 3/23>          | 5/4>                     | 5/10>            |                 |
| GREENE       |                   |                       |                          |                  |                        |                    |                |           |       |           | 3/15>          |                          | 4/23>            |                 |
| HUNTINGDON   |                   |                       | >4/13                    |                  | 5/25-5/26              | 5/10>              | 5/10>          | 5/14-5/14 | 5/14> | 4/29>     | 3/15>          | 5/3>                     | 5/3>             |                 |
| INDIANA      |                   | 5/20-5/27             | >4/19                    |                  | 5/16-5/17              | 5/1>               | 5/9>           | 5/19>     | 5/10> | 5/6>      | 3/11>          | 5/6>                     | 4/30>            |                 |
| LANCASTER    |                   |                       | >4/5                     |                  | 5/10-5/19              | 5/10>              | 5/10>          |           | 5/11> | 5/5-5/11  | 3/23>          | 4/26>                    | 4/24>            |                 |
| LEBANON      |                   |                       |                          |                  |                        | 4/27>              | 5/4>           |           | 5/14> |           | 4/8>           | 5/3>                     | 5/10>            |                 |
| LUZERNE      |                   | 3/1>                  | 3/1>                     | 3/1>             | 5/25>                  | 5/10>              | 5/10>          | 5/10>     | 5/4>  | 5/1>      | 3/20>          | 4/16>                    | 5/10>            |                 |
| MCKEAN       |                   | 3/25>                 |                          | 4/1>             | 5/9-5/30               | 5/10>              | 5/7>           | 5/10>     | 5/31> | 5/5>      | 3/29>          | 4/28>                    | 5/10>            | 3/19-3/20       |
| MERCER       |                   |                       | 4/6>                     |                  | 5/18>                  | 5/10>              |                | 5/17>     | 5/7>  | 5/3>      | 3/16>          | 5/2>                     | 4/29>            |                 |
| MONTOUR      |                   |                       |                          |                  |                        |                    |                |           |       | 5/14>     | 3/28>          | 5/4>                     | 5/9>             |                 |
| NORTHAMPTON  |                   |                       | >4/15                    |                  | 5/14-5/18              | 5/10>              | 5/18>          | 6/15>     | 5/26> | 5/3>      | 1/15>          | 4/30>                    | 5/4>             |                 |
| PHILADELPHIA |                   |                       | >4/12                    |                  |                        | 5/15>              | 5/15>          | 5/14-5/21 | 5/15> | 5/17-5/17 | 3/18>          | 4/27>                    | 4/25>            |                 |
| SCHUYLKILL   |                   | 5/7-5/10              | 4/4-4/16                 |                  | 5/13-5/31              | 5/4>               | 5/14>          | 5/10>     | 5/22> | 5/3>      | 1/29>          | 5/3>                     | 5/4>             |                 |
| SOMERSET     |                   | 5/4>                  | 3/30>                    | 3/25>            |                        | 5/14>              | 5/20>          | 6/5>      | 5/22> | 5/2>      | 3/16>          | 5/2>                     | 5/18>            |                 |
| TIOGA        |                   | 3/8>                  |                          | 3/31>            |                        |                    | 5/24>          |           | 5/23> |           | 3/25>          | 5/11>                    | 5/13>            |                 |
| VENANGO      |                   | 2/9>                  | 4/4>                     | 3/10>            |                        | 5/7>               | 5/18-5/18      | 5/24>     | 5/22> | 4/29>     | 3/16>          | 5/6>                     | 4/29>            |                 |
| WYOMING      |                   |                       | 4/8>                     |                  |                        | 5/27>              |                |           | 5/22> | 5/4>      | 3/17>          | 5/2>                     | 5/10>            |                 |

Two dates indicate first and last dates recorded. A date with a ">" after it indicates first date recorded. A date after a ">" indicates last date recorded.

SPRING MIGRATION TABLES - 2003

|              | SHRIKE     |            | VIREO           |                     |           |                          |       | JAY<br>BLUE | CROW<br>FISH | RAVEN<br>COMMON | LARK<br>HORNED | MARTIN<br>PURPLE | TREE  | SWALLOW<br>NO ROUGH-<br>WINGED | BANK |
|--------------|------------|------------|-----------------|---------------------|-----------|--------------------------|-------|-------------|--------------|-----------------|----------------|------------------|-------|--------------------------------|------|
|              | LOGGERHEAD | WHITE-EYED | BLUE-<br>HEADED | YELLOW-<br>THROATED | WARBLING  | PHILADELPHIA<br>RED-EYED |       |             |              |                 |                |                  |       |                                |      |
| ALLEGHENY    |            | 4/29>      | 4/15>           | 4/29>               | 5/1>      | 5/12-5/15                | 4/29> |             |              |                 |                | 3/24>            | 3/26> | 5/12-5/13                      |      |
| ARMSTRONG    |            |            |                 |                     |           |                          | 5/9>  |             |              |                 | 4/7>           | 3/29>            | 4/30> |                                |      |
| BEDFORD      |            | 5/17>      | 5/10>           |                     | 5/10>     | 5/7>                     | 5/7>  |             |              |                 | 6/1>           | 4/6>             | 5/4>  | 4/19>                          |      |
| BERKS        |            | 4/30>      | 4/20>           | 5/2>                | 5/3>      | 5/3>                     | 5/3>  |             |              |                 | 4/15>          | 3/23>            | 4/5>  | 4/28>                          |      |
| BRADFORD     |            |            | 4/18>           | 4/26>               | 5/10>     | 5/9>                     | 5/9>  |             |              |                 |                | 3/20>            | 4/25> | 4/25>                          |      |
| BUCKS        |            | 4/27>      | 4/19-5/17       | 5/3>                | 5/3>      | 5/11-5/13                | 5/3>  |             |              | >4/20           | 4/14>          | 3/13>            | 3/22> | 4/25>                          |      |
| BUTLER       |            | 5/2>       | 5/2>            | 4/20>               | 5/2>      | 5/2>                     | 5/2>  |             |              |                 | 4/21>          | 3/21>            | 4/19> | 5/5>                           |      |
| CAMBRIA      |            | 5/3>       | 4/20>           | 5/19>               | 5/19>     | 5/5>                     | 5/5>  | 3/1>        | 3/2>         | 3/5>            | 3/29>          | 3/29>            | 4/14> | 5/8-5/24                       |      |
| CENTRE       |            | 5/10>      | 3/28>           | 4/27>               | 5/10>     | 5/10-5/10                | 5/1>  |             |              |                 | 4/16>          | 3/20>            | 4/5>  | 5/10>                          |      |
| CHESTER      |            | 4/25>      | 4/25-5/14       | 4/25>               | 4/30>     | 4/29>                    | 4/29> |             |              |                 | 4/15>          | 3/15>            | 3/29> | 5/8>                           |      |
| CLARION      |            | 5/4>       | 4/16>           | 5/3>                | 5/3>      | 5/7>                     | 4/28> |             |              |                 | 4/7>           | 4/3>             | 4/20> |                                |      |
| CLINTON      |            |            | 5/15>           |                     |           | 5/15>                    | 5/15> | 2/1>        | 2/20>        | 4/7>            | 5/9>           | 4/2>             | 5/13> |                                |      |
| CRAWFORD     |            |            | 4/20>           | 5/19>               | 4/30>     | 5/16>                    | 5/16> |             |              |                 | 4/24>          | 3/19>            | 4/26> | 4/30>                          |      |
| CUMBERLAND   | 5/4-5/4    | 4/27>      | 4/20>           | 4/27>               | 5/8>      | 5/8-5/22                 | 4/27> | 3/1>        | 3/1>         | 3/1>            | 4/20>          | 3/6>             | 3/30> | 5/5>                           |      |
| DAUPHIN      |            | 4/30>      | 3/26>           | 4/27>               | 4/27>     | 5/4>                     | 4/29> |             |              |                 | 4/27>          | 3/1>             | 3/26> | 4/27>                          |      |
| DELAWARE     |            | 4/30>      | 4/18>           | 4/30>               | 5/4>      | 5/2>                     | 5/2>  |             |              | 3/2-3/3         | 4/5>           | 3/22>            | 3/24> | 5/1>                           |      |
| ERIE         |            | 5/30-6/15  | 4/15>           | 5/30>               | 5/1>      | 5/15-6/1                 | 5/1>  |             |              |                 | 3/30>          | 3/15>            | 4/30> | 5/1>                           |      |
| FAYETTE      | 5/10-5/10  | 5/3>       | 4/27>           | 5/3>                | 5/3>      | 4/27>                    | 4/27> |             |              |                 | 4/5>           | 4/5>             | 4/5>  |                                |      |
| FOREST       |            |            | 4/20>           |                     |           | 5/9>                     | 5/9>  |             |              |                 | 4/13>          | 4/13>            | 4/13> | 5/9>                           |      |
| FULTON       |            |            | 4/20-5/26       | 5/4>                | 5/10>     | 5/10>                    | 5/4>  |             | 3/9>         |                 | 5/10>          | 3/15>            | 5/4>  |                                |      |
| GREENE       |            | 4/19>      |                 | 4/26>               | 4/19>     | 5/2>                     | 5/2>  |             |              |                 | 3/21>          | 3/15>            | 4/19> |                                |      |
| HUNTINGDON   |            | 5/24>      | 4/12>           | 5/3>                | 4/27>     | 5/19-5/19                | 5/2>  |             |              | >3/23           | 3/12>          | 3/12>            | 4/5>  | 4/24-5/18                      |      |
| INDIANA      |            | 4/26>      | 4/15>           | 4/26>               | 5/1>      | 5/18-5/18                | 5/3>  |             |              |                 | 4/22-4/22      | 3/16>            | 3/25> | 4/30>                          |      |
| LANCASTER    |            | 4/24>      | 4/19-5/11       | 5/4>                | 4/16>     | 5/4>                     | 5/4>  |             |              |                 | 4/5>           | 3/23>            | 4/5>  | 5/4>                           |      |
| LEBANON      |            | 5/3>       | 5/3>            | 5/10>               | 5/10>     | 5/3>                     | 5/3>  |             |              |                 | 4/6>           | 3/16>            | 4/13> | 4/18>                          |      |
| LUZERNE      |            | 5/10>      | 4/26>           | 5/2>                | 5/2>      | 5/9>                     | 4/28> | 3/1>        | 3/1>         | 3/1>            | 5/8>           | 4/20>            | 4/20> | 5/2>                           |      |
| MCKEAN       |            |            | 4/3>            | 5/10>               | 5/10>     | 5/10-5/26                | 5/4>  |             |              |                 | 4/24-5/10      | 3/29>            | 3/29> | 4/29>                          |      |
| MERCER       |            | 5/8>       | 4/12>           | 4/30>               | 4/27>     | 5/18>                    | 4/27> |             |              |                 | 3/28>          | 3/15>            | 3/29> | 5/10>                          |      |
| MONTOUR      |            |            |                 |                     |           |                          |       |             |              |                 |                | 3/23>            |       |                                |      |
| NORTHAMPTON  |            | 4/30>      | 4/15-5/18       | 4/30>               | 4/20>     | 5/13-5/16                | 4/29> |             |              |                 | 4/17>          | 2/16>            | 3/29> | 5/4>                           |      |
| PHILADELPHIA | 5/7-5/7    | 4/28>      | 4/28-5/10       | 5/3>                | 4/25>     | 4/28>                    | 4/28> |             |              |                 | 3/13>          | 3/13>            | 4/1>  | 4/30>                          |      |
| SCHUYLKILL   |            | 4/22>      | 3/27>           | 5/3>                | 5/10-5/30 | 5/27-5/27                | 5/4>  |             |              |                 | 5/4>           | 3/23>            | 3/30> | 5/10>                          |      |
| SOMERSET     |            | 5/14>      | 4/28>           | 5/20>               | 6/3>      | 5/12>                    | 5/12> |             |              |                 | 6/3-6/3        | 3/24>            | 4/18> | 5/14>                          |      |
| TIOGA        |            |            | 4/26>           | 5/25>               | 5/25>     | 5/25>                    | 5/25> |             |              |                 |                | 3/28>            | 5/2>  | 5/8>                           |      |
| VENANGO      |            | 5/7>       | 4/17>           | 5/1>                | 5/7>      | 5/15-5/18                | 5/4>  | 3/1>        |              |                 | 4/21-5/18      | 3/21>            | 4/22> | 5/4>                           |      |
| WYOMING      |            |            | 5/2>            | 5/10>               | 5/5>      | 5/8>                     | 5/8>  | 4/2>        |              |                 | 3/26>          | 3/26>            | 5/10> | 5/2>                           |      |

Two dates indicate first and last dates recorded. A date with a ">" after it indicates first date recorded. A date after a ">" indicates last date recorded.

SPRING MIGRATION TABLES - 2003

|              | SWALLOW |       | CHICKADEE<br>BLACK-<br>CAPPED | NUTHATCH<br>RED-<br>BREASTED | CREEPER<br>BROWN | WREN  |           | KINGLET   |                    |                  | GNATCATCHER<br>BLUE-GRAY | BLUEBIRD<br>EASTERN | VEERY | GRAY-<br>CHECKED | THRUSH<br>BICKNELL'S |
|--------------|---------|-------|-------------------------------|------------------------------|------------------|-------|-----------|-----------|--------------------|------------------|--------------------------|---------------------|-------|------------------|----------------------|
|              | CLIFF   | BARN  |                               |                              |                  | HOUSE | WINTER    | MARSH     | GOLDEN-<br>CROWNED | RUBY-<br>CROWNED |                          |                     |       |                  |                      |
| ALLEGHENY    | 5/12>   | 4/12> |                               |                              | >4/15            | 4/29> | 3/31-4/25 |           | >4/16              | 4/9-5/20         | 4/11>                    |                     | 4/29> |                  |                      |
| ARMSTRONG    | 5/22>   | 4/27> |                               |                              |                  | 5/6>  |           |           | 3/27-3/27          | 4/30>            |                          |                     |       |                  |                      |
| BEDFORD      | 5/10>   | 4/19> |                               |                              |                  | 5/4>  |           |           | 5/17-5/17          | 5/10>            |                          |                     | 5/15> |                  |                      |
| BERKS        | 4/19>   | 4/16> |                               |                              |                  | 4/21> |           |           | 3/2-5/13           | 4/5>             |                          |                     | 4/30> | 5/15-5/25        | >5/18                |
| BRADFORD     | 5/10>   | 4/23> |                               |                              |                  | 4/30> |           |           | 4/1-5/3            | 5/1>             |                          |                     | 5/6>  |                  |                      |
| BUCKS        | 4/25>   | 3/27> |                               |                              | >4/18            | 4/16> | >4/25     | 5/10-5/26 | >5/10              | 3/12-5/4         | 4/13>                    |                     | 4/29> | 5/11-5/24        |                      |
| BUTLER       | 4/20>   | 4/4>  |                               |                              |                  | 4/19> |           |           | 4/29-5/28          | 4/12>            |                          |                     | 4/30> |                  |                      |
| CAMBRIA      | 5/8>    | 4/3>  | 3/1>                          |                              | 3/16>            | 4/30> | 4/18-4/20 |           | 3/30-4/22          | 4/18-5/19        | 4/20>                    | 3/29>               | 5/12> |                  |                      |
| CENTRE       | 4/19>   | 4/8>  |                               |                              |                  | 4/26> |           |           | 3/28>              | 4/22>            |                          |                     | 4/28> |                  |                      |
| CHESTER      | 4/6>    | 4/6>  |                               |                              |                  | 4/27> | 5/7>      |           | >5/10              | 4/16-5/10        | 4/16>                    |                     | 5/1>  |                  |                      |
| CLARION      | 5/8>    | 4/20> |                               |                              |                  | 4/22> | 4/23>     |           | 4/4-5/10           | 5/11>            |                          |                     | 5/10> |                  |                      |
| CLINTON      | 5/12>   | 3/30> | 2/1>                          |                              | 4/13>            | 5/10> | 6/18>     |           | 4/9>               | 4/24>            | 3/15>                    |                     | 6/6>  |                  |                      |
| CRAWFORD     | 4/19>   | 4/24> |                               |                              |                  | 4/28> |           | 5/19>     | 4/19-4/30          | 4/30>            |                          |                     | 5/7>  |                  |                      |
| CUMBERLAND   | 5/10>   | 4/28> |                               |                              |                  | 4/15> |           |           | 3/1>               | >5/20            | 4/22>                    |                     | 5/8>  | 5/10-5/10        | 5/12-5/12            |
| DAUPHIN      | 4/5>    | 4/5>  |                               |                              | 4/13>            | 3/15> |           |           | 4/13-5/10          | 4/6-5/10         | 4/15>                    |                     | 3/28> | 5/3-5/11         |                      |
| DELAWARE     | 5/4>    | 4/15> |                               |                              | >4/1             | 5/2>  | >4/1      |           | >5/12              | >5/3             | 4/12>                    |                     | 5/1>  |                  |                      |
| ERIE         | 3/1>    | 4/30> |                               |                              |                  | 4/30> | 3/30-4/30 | 5/1>      | >5/15              | 4/1-5/15         | 4/1>                     |                     | 5/1>  | 5/15-6/12        |                      |
| FAYETTE      | 5/3>    | 4/5>  |                               |                              |                  |       |           |           |                    | 5/3>             |                          |                     |       |                  |                      |
| FOREST       | 5/9>    | 5/4>  |                               |                              |                  | 5/10> |           |           | >4/20              | 4/15-4/20        | 4/20>                    |                     | 5/27> |                  |                      |
| FULTON       | 5/18>   | 3/22> | 3/18>                         |                              | 5/26>            | 5/10> |           |           | 4/20>              | 4/20-5/26        | 3/15>                    |                     |       |                  |                      |
| GREENE       | 4/24>   | 4/15> |                               |                              |                  | 4/26> |           |           |                    | 4/17>            |                          |                     |       |                  |                      |
| HUNTINGDON   | 4/24>   | 4/5>  |                               |                              |                  | 4/16> |           |           | 3/29-5/7           | 4/18>            |                          |                     | 5/10> | 5/10-5/10        |                      |
| INDIANA      | 5/10>   | 3/23> |                               |                              |                  | 4/21> | 4/18>     |           | 4/15-5/10          | 3/25>            |                          |                     | 5/18> |                  |                      |
| LANCASTER    | 5/4>    | 4/5>  |                               |                              | >4/5             | 4/27> | >4/5      |           | >5/10              | 4/12>            |                          |                     | 5/4>  |                  |                      |
| LEBANON      | 4/18>   | 4/18> |                               |                              |                  | 4/27> |           |           | >5/10              | 4/12>            |                          |                     | 4/9>  | 5/10>            |                      |
| LUZERNE      | 5/2>    | 4/30> | 3/1>                          | 3/1>                         | 3/1>             | 5/2>  | 3/1>      |           | 3/1>               | >5/7             | 4/26>                    | 3/1>                | 5/2>  | 5/15-5/16        |                      |
| MCKEAN       | 4/29>   | 4/22> |                               |                              | 5/5>             | 5/2>  | 3/29>     |           | 3/28-4/26          | 4/24-5/8         | 4/15>                    | 5/10>               | 5/3>  |                  |                      |
| MERCER       | 4/26>   | 4/5>  |                               |                              |                  | 4/16> | 4/4-5/10  | 5/13>     | >4/15              | 4/6-5/13         | 4/4>                     |                     | 5/1>  |                  |                      |
| MONTOUR      |         |       |                               |                              |                  | 5/8>  |           |           |                    | 4/23>            |                          |                     |       |                  |                      |
| NORTHAMPTON  | 5/10>   | 3/27> |                               |                              | >5/18            | 4/27> | >4/7      | 5/10-5/10 | >4/7               | 4/8-4/30         | 4/15>                    |                     | 5/4>  | 5/10-5/10        |                      |
| PHILADELPHIA | 4/15>   | 4/15> |                               | 5/3-5/3                      | >4/15            | 4/24> | >4/1      | 5/2>      | >5/10              | 4/13             | 4/24>                    |                     | 5/1>  | 5/17>            |                      |
| SCHUYLKILL   | 3/30>   | 5/10> |                               |                              |                  | 4/25> | 4/5-4/19  |           | 4/4-5/14           | 4/16>            |                          |                     | 5/4>  |                  |                      |
| SOMERSET     | 5/17>   | 4/8>  |                               | 4/21>                        |                  | 4/28> | 4/8-4/8   |           | 4/16>              | 4/23>            | 3/4>                     |                     | 4/29> |                  |                      |
| TIOGA        | 5/6>    | 4/16> |                               |                              |                  | 5/25> |           |           | 3/26>              | 4/17>            |                          |                     | 5/3>  |                  |                      |
| VENANGO      | 4/22>   | 4/4>  | 3/1>                          |                              | 3/11>            | 5/31> |           |           | >4/11              | 4/20-5/18        | 4/21>                    |                     | 5/3>  | 5/25-5/25        |                      |
| WYOMING      | 5/5>    | 4/24> |                               |                              |                  | 5/5>  |           |           | 4/22-5/4           | 5/2>             |                          |                     | 5/10> |                  |                      |

Two dates indicate first and last dates recorded. A date with a ">" after it indicates first date recorded. A date after a ">" indicates last date recorded.

SPRING MIGRATION TABLES - 2003

|              | THRUSS     |           | ROBIN AMERICAN | CATBIRD GRAY | THRASHER BROWN | PIBIT AMERICAN | WAXWING CEDAR | WARBLER   |               |             | PARULA NORTHERN | WARBLER YELLOW |
|--------------|------------|-----------|----------------|--------------|----------------|----------------|---------------|-----------|---------------|-------------|-----------------|----------------|
|              | SWAINSON'S | HERMIT    |                |              |                |                |               | WOOD      | GOLDEN-WINGED | BLUE-WINGED |                 |                |
| ALLEGHENY    | 5/2-5/20   | 3/25-5/14 | 4/24>          | 4/20>        | 4/2>           | 3/29-5/16      | 4/28>         | 5/4>      | 5/7-5/24      | 4/25-5/16   | 5/2-5/16        | 4/16>          |
| ARMSTRONG    | 5/22-5/22  | 5/22-5/22 | 5/9>           | 5/5>         | 4/10>          | 3/30-3/30      | 5/9>          | 5/10>     | 5/15-5/15     | 5/10-5/10   | 5/10>           | 4/30>          |
| BEDFORD      | 5/10>      | 4/10>     | 5/10>          | 4/5>         | 4/10>          | 3/30-3/30      | 5/22>         | 5/10>     | 5/10-5/10     | 5/10>       | 5/10>           | 4/30>          |
| BERKS        | 5/10-5/26  | 3/1>      | 4/29>          | 4/29>        | 4/4>           | 3/27-4/19      | 4/29>         | 4/29>     | 5/3-5/13      | 4/30-5/13   | 3/27>           | 4/21>          |
| BRADFORD     |            | 4/11>     | 5/2>           | 5/2>         | 4/19>          | 4/19>          | 5/4>          | 5/4>      | 4/21-5/15     | 5/10>       | 5/8>            | 4/28>          |
| BUCKS        | 5/4-5/28   | >5/27     | 4/29>          | 3/5>         | 4/15>          | 3/16-5/4       | 4/29>         | 4/29>     | 5/7-5/10      | 5/2-5/14    | 5/3>            | 4/15>          |
| BUTLER       | 5/10>      | 4/20>     | 4/29>          | 5/1>         | 4/11>          | 3/1-5/27       | 4/29>         | 5/10>     | 5/10-5/31     | 5/3>        | 5/10>           | 4/28>          |
| CAMBRIA      | 5/10>      | 5/10>     | 5/1>           | 5/1>         | 4/10>          | 3/15>          | 5/1>          | 5/1>      | 5/19-5/19     | 5/6-5/19    | 4/30-5/19       | 5/3>           |
| CENTRE       | 5/18-5/20  | 2/1-6/30  | 4/28>          | 5/2>         | 3/25>          | 3/25-5/4       | 4/22>         | 4/25>     | 4/29>         | 4/22-5/18   | 4/27>           | 4/27>          |
| CHESTER      | 5/14-5/14  | 4/4-5/2   | 4/29>          | 4/11>        | 4/21>          | 4/15-5/15      | 4/27>         | 4/27>     | 5/10-5/10     | 5/10-5/10   | 4/16>           | 4/25>          |
| CLARION      | 5/10>      | 4/29>     | 4/29>          | 4/30>        | 4/13>          | 4/2>           | 5/3>          | 5/3>      | 5/10-5/14     | 5/6>        | 5/2>            | 4/28>          |
| CLINTON      | 6/6>       | 5/15>     | 5/15>          | 5/7>         | 4/15>          | 3/30-4/7       | 3/12>         | 6/3>      | 5/9>          | 5/9>        | 5/14>           | 5/20>          |
| CRAWFORD     | 5/8>       | 4/24>     | 5/8>           | 5/22>        | 4/20>          | 4/28-4/30      |               |           | 5/26>         |             |                 | 4/30>          |
| CUMBERLAND   |            | 3/1>      | 4/28>          | 4/10>        | 4/22>          | >5/10          | 3/1>          | 4/27>     |               | 5/8>        | 4/22>           | 4/27>          |
| DAUPHIN      | 4/25-5/10  | 4/29>     | 4/28>          | 4/25>        | 3/27>          | 3/16-5/10      | 4/27>         | 4/28>     | 4/30-5/10     | 4/29-5/10   | 4/27>           | 4/22>          |
| DELAWARE     | 4/29-5/29  | >4/29     | 5/1>           | 3/15>        | 5/1>           | 5/8-5/10       | 4/18>         | 4/18>     | 5/8-5/10      | 5/2-5/2     | 4/16-5/24       | 5/2>           |
| ERIE         | 5/1-6/10   | 3/30>     | 5/1>           | 4/15>        | 4/1>           | 3/1-5/15       | 4/30>         | 5/1-5/20  | 5/1-6/1       | 4/19-5/24   | 5/1>            | 4/30>          |
| FAYETTE      | 4/22>      |           | 5/3>           | 5/3>         | 4/18>          |                | 4/27>         | 5/3>      | 5/10-5/10     |             |                 | 4/27>          |
| FOREST       | 3/27>      | 5/4>      | 5/4>           | 4/20>        | 4/15>          |                | 4/20>         | 5/10>     |               |             | 5/4>            | 5/4>           |
| FULTON       | 4/20>      | 5/4>      | 4/26>          | 5/4>         | 3/29>          | 4/11>          | 4/19>         | 5/10-5/27 |               | 5/4-5/10    | 4/20>           | 5/10>          |
| GREENE       |            | 4/26>     | 4/29>          | 5/7>         | 3/29>          |                | 4/19>         |           |               |             | 4/16>           | 4/19>          |
| HUNTINGDON   | 5/10-5/15  | 4/19>     | 4/29>          | 4/29>        | 4/13>          | 3/23-5/8       | 5/1>          | 5/1>      | 5/3-5/14      | 5/1-5/20    | 5/1>            | 4/26>          |
| INDIANA      | 5/10-5/27  | 4/19>     | 4/26>          | 4/28>        | 3/18>          | 3/30-4/1       | 4/26>         | 4/26>     | 5/7-5/25      | 4/26-5/18   | 4/29>           | 4/26>          |
| LANCASTER    | 5/10>      | >5/10     | 4/19>          | 4/28>        | 4/5>           | >5/10          | 5/9>          | 5/10-5/10 | 5/9-5/10      | 5/4-5/11    | 4/16>           | 4/16>          |
| LEBANON      | 5/10>      | 4/30>     | 4/30>          | 5/3>         | 3/30>          | 4/9-5/10       | 5/3>          | 5/3>      | 5/3-5/10      | 5/3-5/10    | 5/3>            | 4/27>          |
| LUZERNE      | 5/15>      | 4/14>     | 5/2>           | 4/20>        | 4/20>          | >5/15          | 5/2>          | 5/7>      | 5/8-5/20      | 5/2>        | 5/1>            | 4/26>          |
| MCKEAN       | 4/24>      | 4/14>     | 4/24>          | 5/3>         | 4/14>          | 3/29-3/31      | 5/7>          | 5/26-5/26 | 5/3-5/26      | 5/2-5/26    | 5/1>            | 4/29>          |
| MERCER       | 5/2>       | 4/20-5/2  | 4/25>          | 4/28>        | 4/10>          | 5/5>           | 4/28>         | 4/28>     | 4/28-5/13     | 4/28-5/10   |                 | 4/21>          |
| MONTOUR      |            |           | 5/8>           | 5/4>         | 4/23>          |                |               |           |               | 5/8>        |                 |                |
| NORTHAMPTON  | 5/9-5/23   | >5/10     | 4/29>          | 4/29>        | 4/8>           | 3/29-4/1       | 4/29>         | 5/10-5/10 | 5/14-5/24     | 4/28-5/16   | 4/28>           | 4/29>          |
| PHILADELPHIA | 5/10-5/10  | >4/15     | 5/1>           | 4/24>        | 4/12>          |                | 4/13>         |           | 5/28>         | 4/28-4/28   | 4/28-4/28       | 4/21>          |
| SCHUYLKILL   | 5/10-5/10  | 4/29>     | 4/28>          | 4/26>        | 4/17>          | 3/16-4/14      | 4/29>         | 5/7-5/10  | 5/7-5/14      | 5/4-5/14    | 4/22>           | 4/26>          |
| SOMERSET     |            | 4/29>     | 4/28>          | 5/2>         | 4/14>          | 3/30-4/7       | 5/26>         | 5/18-5/18 | 5/18-5/18     | 4/29-4/29   | 5/20>           | 4/27>          |
| TIOGA        | 5/2>       | 4/9>      | 5/1>           | 4/29>        | 5/19>          | 3/24-3/31      |               |           |               | 5/2-5/4     |                 | 4/29>          |
| VENANGO      | 5/10-5/24  | 4/22>     | 5/3>           | 4/29>        | 4/16>          | 4/21-5/18      | 5/1>          | 5/9>      | 5/10-5/28     | 5/1>        | 4/29>           | 4/17>          |
| WYOMING      | 5/13>      | 5/10>     | 5/5>           | 4/29>        | 5/10>          | 3/31-3/31      | 5/10>         |           |               | 5/5>        | 5/10>           | 4/29>          |

Two dates indicate first and last dates recorded. A date with a ">" after it indicates first date recorded. A date after a ">" indicates last date recorded.

SPRING MIGRATION TABLES - 2003

|              | WARBLER        |           |           |                     |               |                      |              |                 |           |           |           |              |           |           |                 |
|--------------|----------------|-----------|-----------|---------------------|---------------|----------------------|--------------|-----------------|-----------|-----------|-----------|--------------|-----------|-----------|-----------------|
|              | CHESTNUT-SIDED | MAGNOLIA  | CAPE MAY  | BLACK-THROATED BLUE | YELLOW-RUMPED | BLACK-THROATED GREEN | BLACKBURNIAN | YELLOW-THROATED | PINE      | PRAIRIE   | PALM      | BAY-BREASTED | BLACKPOLL | CERULEAN  | BLACK-AND-WHITE |
| ALLEGHENY    | 4/29-5/24      | 4/29-5/25 | 5/9-5/24  | 5/1-5/24            | 3/28-5/17     | 4/9>                 | 4/28-5/24    | 4/13>           | 4/15-5/20 | 4/20>     | 4/19-5/19 | 5/9-5/24     | 5/10-5/29 | 4/24>     | 4/15>           |
| ARMSTRONG    | 5/22>          |           |           |                     |               | 5/22>                |              |                 | 5/22>     | 5/9>      |           |              | 5/22-5/22 |           |                 |
| BEDFORD      | 5/10>          | 5/10>     |           | 5/10>               | 5/10>         | 5/10>                | 5/10>        | 5/10>           | 5/10>     | 4/15>     | 5/10>     |              | 5/10>     | 5/10>     | 5/10>           |
| BERKS        | 5/4>           | 5/3-5/27  | 5/10-5/12 | 5/3>                | 3/30-5/27     | 4/30>                | 5/9-5/12     | 3/1>            | 4/26>     | 4/26>     | 4/5-5/2   | 5/10-5/17    | 5/8-6/1   | 5/10>     | 4/20>           |
| BRADFORD     | 5/1>           |           |           |                     |               | 4/26>                | 5/9>         |                 | 4/30>     | 4/30>     | 5/10>     | 5/10>        |           | 5/10>     | 4/28>           |
| BUCKS        | 5/2>           | 5/2-5/26  | 5/17-5/23 | 4/20-5/22           | >5/19         | 4/20-5/22            | 5/3-5/18     | 5/4>            | 3/28>     | 4/28>     | 4/2-5/11  | 5/10-5/18    | 5/9-5/27  | 5/10>     | 4/24>           |
| BUTLER       | 5/1>           | 5/1>      | 5/5-5/7   | 5/10>               |               | 5/1>                 | 5/1>         | 4/20>           | 4/19>     | 5/10>     | 5/1-5/10  | 5/10-5/31    | 5/8>      | 5/8>      | 5/1>            |
| CAMBRIA      | 5/3>           | 5/10>     |           | 5/3>                | 4/22-4/22     | 4/20>                | 5/10-5/19    |                 | 3/28>     | 5/10>     | 4/28>     | 5/2-5/18     | 5/11-6/2  | 5/10>     | 5/12>           |
| CENTRE       | 4/30>          | 4/30>     | 5/10>     | 4/29>               | 2/1-6/30      | 4/15>                | 5/22>        |                 | 3/28>     | 5/3>      | 4/28>     | 5/2-5/18     | 5/11-6/2  | 5/10>     | 4/21>           |
| CHESTER      | 5/1>           | 5/7-5/20  |           | 4/29-5/19           | >5/15         | 4/25-5/15            | 5/1-5/10     | 2/1>            | 2/1>      | 4/25>     | 4/4-5/14  | 5/9-5/9      | 5/2-5/20  | 5/1>      | 4/21>           |
| CLARION      | 5/4>           | 5/1>      |           | 5/13>               | 4/23>         | 4/20>                | 5/3>         | 3/21>           | 3/21>     | 5/1>      | 4/28-5/17 |              | 5/22>     |           | 5/1>            |
| CLINTON      | 5/18>          | 5/9>      |           | 5/18>               | 4/9>          | 5/18>                | 5/14>        | 4/8>            | 4/8>      | 6/6>      |           |              | 5/18>     | 5/18>     | 5/15>           |
| CRAWFORD     | 5/22>          |           |           |                     |               | 4/30>                |              | 3/17>           | 3/17>     |           |           |              | 5/26>     |           |                 |
| CUMBERLAND   | 4/27>          | 5/8-5/22  | 5/8-5/20  | 4/28>               | 3/1>          | 4/28>                | 4/28>        | 3/17>           | 3/17>     | 4/27>     | 4/15-5/10 | 5/8-5/22     | 5/3>      | 4/28>     | 4/28>           |
| DAUPHIN      | 4/28>          | 5/5-5/20  | 5/10>     | 4/29>               | >5/10         | 4/16>                | 4/30>        | 4/29-5/23       | 3/17>     | 4/27>     | 4/14-5/10 | 5/10>        | 5/3-6/2   | 4/30>     | 4/27>           |
| DELAWARE     | 4/13>          | 5/3-5/31  |           | 5/4-5/31            | >5/10         | 5/3-5/27             | 5/3-5/17     | 4/6-4/18        | 4/6-4/18  | 5/2>      | 4/12-4/28 | 5/10-5/13    | 5/8-6/3   |           | 4/18-5/31       |
| ERIE         | 5/1>           | 4/30>     | 5/1-5/30  | 5/1>                | >5/30         | 4/15>                | 4/30>        | 4/15>           | 4/15>     | 5/14-5/15 | 3/25-5/30 | 5/1-6/1      | 5/1-6/10  | 5/15>     | 4/15-5/30       |
| FAYETTE      | 5/3>           | 5/10>     |           |                     | 5/3-5/10      | 4/27>                | 5/10>        | 5/3>            | 5/3>      | 5/3>      | 5/3-5/3   | 5/10-5/10    | 5/10-5/10 | 5/3>      | 4/27>           |
| FOREST       | 5/4>           | 5/10>     |           | 5/4>                | 4/28>         | 5/1>                 | 5/10>        |                 |           |           |           |              |           |           | 5/10>           |
| FULTON       | 5/4-5/10       | 5/4>      |           | 5/10>               | 5/4-5/10      | 5/4-5/26             | 5/10-5/26    | 4/20>           | 4/20>     | 4/20>     |           | 5/4>         | 5/4-5/26  | 5/10-5/26 |                 |
| GREENE       |                |           |           |                     |               |                      |              | 4/16>           |           | 4/26>     |           |              |           | 4/19>     | 4/26>           |
| HUNTINGDON   | 5/3>           | 5/2>      |           | 5/2>                |               | 4/19>                | 4/21>        | 4/18>           | 3/26>     | 5/3>      | 5/5-5/5   | 5/10-5/11    | 5/19-6/1  | 5/3>      | 4/20>           |
| INDIANA      | 5/2>           | 5/2>      | 5/10-5/17 | 5/3>                | 4/8-5/25      | 4/21>                | 4/29>        | 4/15>           | 3/18>     | 4/26>     | 4/29-5/10 | 5/8-5/20     | 5/13-6/3  | 5/5>      | 4/27>           |
| LANCASTER    | 5/9>           | 5/9-5/11  |           | 5/7-5/11            | >5/11         | 4/24-5/11            | 5/4-5/11     | 3/27>           | 4/5>      | 4/16>     | 4/15-5/11 | 5/10-5/11    | 5/4-6/2   | 5/10>     | 4/16>           |
| LEBANON      | 5/3>           | 5/9>      |           | 5/3>                | >5/10         | 5/3>                 | 5/3>         | 5/3>            | 5/3>      | 5/10>     | 4/9-5/10  | 5/10>        | 5/28>     | 5/9>      | 5/3>            |
| LUZERNE      | 4/26>          | 4/26>     | 5/10-5/12 | 4/30>               | 3/19>         | 4/28>                | 4/26>        | >5/10           | 4/14>     | 4/26>     | 4/18-5/10 | 5/2-5/19     | 5/10-5/30 | 4/29>     | 4/26>           |
| MCKEAN       | 5/1>           | 5/5>      | 5/3-5/3   | 5/3>                | 3/29>         | 4/24>                | 5/3>         |                 | 4/14-5/3  |           | 4/14-5/3  | 5/3-5/10     | 5/15-6/2  | 5/3>      | 4/24>           |
| MERCER       | 5/1>           | 5/1>      |           | 5/6>                | >5/29         | 4/18>                | 5/7>         |                 |           |           | 4/26-5/13 | 5/9>         | 5/15-5/27 | 5/3>      | 4/28>           |
| MONTOUR      |                | 4/23>     | 5/14-5/14 | 5/3>                |               | 5/10>                |              | 4/5>            |           |           | 4/23-4/23 |              |           |           |                 |
| NORTHAMPTON  | 4/29>          | 5/2-5/23  |           | 4/28-5/20           | 3/29-5/23     | 4/30-5/23            | 5/10-5/23    | 4/29>           | 3/28-5/18 | 4/28>     | 4/5-5/9   | 5/13-5/23    | 5/14-6/2  | 4/28>     | 4/30>           |
| PHILADELPHIA | 5/1-5/15       | 5/8-5/31  |           | 4/28-5/15           | 4/12-5/1      | 4/23-5/15            | 5/4-5/23     | 3/22-4/12       | 3/22-4/12 | 5/1>      | 4/4-5/4   | 5/11-5/18    | 4/30-5/31 | 4/30-4/30 | 4/12>           |
| SCHUYLKILL   | 4/25>          | 5/7-5/31  | 5/10-5/12 | 4/27>               | 3/26>         | 4/19>                | 4/27>        | 3/26>           | 3/26>     | 4/26>     | 4/5-5/10  | 5/10-5/20    | 5/10-5/29 | 5/5-6/5   | 4/19>           |
| SOMERSET     | 5/20>          | 5/18>     |           | 4/28>               | 4/26-5/1      | 4/26>                | 5/1>         | 5/10>           | 4/15>     | 5/10>     | 4/29-4/30 |              | 5/27-5/27 | 5/20>     | 4/29>           |
| TIOGA        | 5/9>           | 5/12>     |           |                     |               | 4/22>                | 5/4>         |                 |           |           | 5/2>      | 5/12>        | 5/25-5/26 |           | 5/9>            |
| VENANGO      | 5/1>           | 5/2>      |           | 5/2>                | 4/4-5/24      | 4/21>                | 5/3>         | 4/17>           | 4/2-4/2   | 5/9>      | 5/1-5/14  | 5/10-5/18    | 5/16-5/28 | 5/1>      | 4/27>           |
| WYOMING      | 5/5>           | 5/10>     | 5/14>     |                     | 4/14>         | 4/28>                | 5/4>         | 4/29>           | 4/29>     | 5/10>     | 3/30-3/30 | 5/2-5/27     | 5/14>     | 5/10>     | 5/5>            |

Two dates indicate first and last dates recorded. A date with a ">" after it indicates first date recorded. A date after a ">" indicates last date recorded.

SPRING MIGRATION TABLES - 2003

|              | REDSTART<br>AMERICAN | WARBLER      |                 | WATERTHRUSH |           | WARBLER  |             | YELLOWTHROAT<br>COMMON | HOODED    | WARBLER  |          | CHAT<br>YELLOW-<br>BREASTED | TANAGER<br>SUMMER |
|--------------|----------------------|--------------|-----------------|-------------|-----------|----------|-------------|------------------------|-----------|----------|----------|-----------------------------|-------------------|
|              |                      | PROTHONOTARY | WORM-<br>EATING | NORTHERN    | LOUISIANA | KENTUCKY | CONNECTICUT |                        |           | MOURNING | WILSON'S |                             |                   |
| ALLEGHENY    | 4/29>                |              | 5/4>            | 4/23>       | 5/12>     | 4/2>     | 5/2>        | 5/23-5/24              | 5/24>     | 4/29>    | 4/15>    | 5/15-5/19                   | 5/10>             |
| ARMSTRONG    | 5/22>                |              |                 | 4/30>       |           |          |             |                        |           | 5/9>     | 5/22>    |                             | 5/9>              |
| BEDFORD      | 5/10>                |              | 5/10>           | 5/10>       | 5/10>     | 5/9>     | 5/11>       |                        |           | 5/1>     | 5/10>    | 5/20-5/20                   | 5/10>             |
| BERKS        | 5/1>                 | 5/15>        | 5/3>            | 4/28>       | 5/4-6/7   | 4/4>     | 5/10>       |                        | 5/16-5/18 | 4/29>    | 5/1>     | 5/8-5/12                    | 5/8>              |
| BRADFORD     | 5/10>                |              |                 | 4/29>       | 5/10>     |          |             |                        |           | 5/4>     | 5/10>    | 5/14>                       |                   |
| BUCKS        | 4/27>                | 5/10-5/26    | 4/29>           | 4/27>       | 5/1>      | 4/15>    | 5/10>       |                        | 5/14-5/15 | 4/28>    | 5/2>     | 5/8-5/26                    | 5/13-5/13         |
| BUTLER       | 5/1>                 |              |                 | 4/30>       | 4/30>     | 4/12>    | 5/1>        | 5/15>                  | 5/15>     | 5/1>     | 5/3>     | 5/15>                       | 5/10>             |
| CAMBRIA      | 5/7>                 |              |                 | 5/1>        | 4/18>     | 4/18>    | 5/10>       |                        | 5/30-5/30 | 5/3>     | 4/20>    | 5/9>                        | 5/12>             |
| CENTRE       | 5/1>                 |              | 4/27>           | 4/26>       | 4/27>     | 4/13>    | 5/10>       |                        | 5/10-5/10 | 4/29>    | 5/1>     | 5/3>                        | 5/4>              |
| CHESTER      | 5/6>                 |              | 4/30>           | 4/29>       | 5/10-5/21 | 4/15>    | 5/3>        |                        | 5/10-5/10 | 4/25>    | 5/10>    | 5/7-5/15                    | 5/10>             |
| CLARION      | 5/4>                 |              | 5/9>            | 5/1>        | 5/21>     |          | 5/10>       | 5/9>                   |           | 5/1>     | 5/1>     | 5/10-5/14                   | 5/17>             |
| CLINTON      | 5/18>                |              | 6/6>            | 5/9>        | 5/13>     | 5/13>    |             |                        |           | 5/9>     | 5/10>    | 5/15>                       |                   |
| CRAWFORD     | 5/19>                | 5/19>        |                 | 5/24>       | 4/20>     | 4/20>    |             |                        |           | 5/22>    | 5/12>    |                             |                   |
| CUMBERLAND   | 4/28>                |              | 4/28>           | 4/27>       | 4/18>     | 4/18>    | 4/28>       |                        | 5/10-5/10 | 4/22>    | 4/28>    | 5/5-5/22                    | 5/5>              |
| DAUPHIN      | 5/4>                 |              | 4/29>           | 4/27>       | 3/27>     | 3/27>    | 4/30>       |                        | 5/17-5/25 | 4/25>    | 4/27>    | 5/5-5/25                    | 5/10-5/17         |
| DELAWARE     | 5/2>                 |              | 5/8-5/31        | 4/30>       | 4/30-5/15 | 4/13>    | 5/3>        |                        |           | 4/30>    | 4/30>    | 5/8-5/18                    | 5/1>              |
| ERIE         | 4/30>                |              |                 | 4/30>       | 4/30>     | 4/15>    |             |                        | 5/15>     | 4/30>    | 4/30>    | 5/1-6/1                     | 5/10-5/18         |
| FAYETTE      | 5/3>                 |              |                 | 4/27>       | 4/27>     | 4/27>    | 5/3>        |                        |           | 5/3>     | 5/3>     |                             | 5/3>              |
| FOREST       | 5/4>                 |              |                 | 5/4>        |           |          |             |                        |           | 5/4>     | 5/10>    |                             |                   |
| FULTON       | 5/4>                 |              | 5/4>            | 5/10>       | 5/18-5/27 | 4/11>    | 5/10>       |                        |           | 5/10>    | 5/4>     |                             | 5/26>             |
| GREENE       | 4/19>                |              |                 | 4/26>       | 3/29>     | 3/29>    |             |                        |           | 4/26>    |          |                             |                   |
| HUNTINGDON   | 4/29>                |              | 5/3>            | 4/27>       | 4/12-5/24 | 3/29>    | 5/3>        |                        |           | 5/1>     | 5/6>     | 5/6-5/14                    | 5/10>             |
| INDIANA      | 5/2>                 |              | 5/5>            | 4/26>       | 5/6-5/27  | 4/4>     | 5/7>        |                        | 5/10-5/10 | 4/26>    | 5/1>     | 5/6-5/27                    | 5/13-5/18         |
| LANCASTER    | 5/3>                 | 5/4>         | 4/16>           | 4/29>       | 5/6-5/10  | 4/3>     | 5/9>        |                        |           | 5/3>     | 5/9>     | 5/10-5/11                   | 5/10>             |
| LEBANON      | 5/3>                 |              | 5/3>            | 4/27>       | 5/10>     | 3/29>    | 5/10>       |                        |           | 4/27>    | 5/3>     | 5/3-5/10                    | 5/10>             |
| LUZERNE      | 4/26>                | >5/4         | 4/30>           | 4/26>       | 4/26>     | 4/19>    | >5/11       |                        |           | 4/23>    | 5/3>     | 5/8-5/16                    | 4/30>             |
| MCKEAN       | 5/3>                 |              | 5/3>            | 5/3>        | 5/10>     | 4/3>     |             | 5/10>                  |           | 5/3>     | 5/3>     | 5/7-6/2                     | 5/5>              |
| MERCER       | 5/4>                 | 5/10>        |                 | 4/27>       | 4/30>     | 4/12>    | 5/10>       |                        | 5/13>     | 4/28>    | 4/30>    | 5/18-5/29                   | 5/10>             |
| MONTOUR      | 5/8>                 |              |                 | 5/8>        |           |          |             |                        |           | 5/4>     |          | 5/10-5/10                   |                   |
| NORTHAMPTON  | 4/28>                |              | 4/28>           | 4/30>       | 4/27-5/23 | 4/16>    | 5/2>        |                        | 5/20-5/23 | 5/2>     | 5/2>     | 5/4-5/23                    | 5/11>             |
| PHILADELPHIA | 5/4>                 |              | 5/10-5/10       | 5/5>        | 4/23-5/1  | 4/15>    |             | 5/22-5/22              | 4/18>     | 4/18>    | 5/4-5/4  | 5/10-5/14                   | 5/10>             |
| SCHUYLKILL   | 4/29>                |              | 5/1>            | 4/27>       | 5/3-5/22  | 4/6>     | 5/4-5/10    |                        |           | 4/29>    | 4/27>    | 5/8-5/19                    | 5/6>              |
| SOMERSET     | 5/2>                 |              | 5/3>            | 4/28>       | 5/1>      | 4/12>    | 5/27>       |                        | 5/27-5/27 | 4/29>    | 5/2>     |                             | 5/17>             |
| TIOGA        | 5/2>                 |              |                 | 5/1>        |           |          |             |                        |           | 5/4>     | 5/19>    |                             |                   |
| VENANGO      | 5/1>                 |              | 5/15-5/23       | 4/29>       | 5/7>      | 4/1>     | 5/10>       | 5/9-5/9                | 5/18>     | 5/2>     | 5/4>     | 5/15-5/25                   | 5/14>             |
| WYOMING      | 5/4>                 |              | 5/2>            | 5/2>        | 5/10>     | 4/15>    | 5/4-5/4     |                        |           | 5/5>     | 5/2>     | 5/14-5/20                   | >5/4              |

Two dates indicate first and last dates recorded. A date with a ">" after it indicates first date recorded. A date after a ">" indicates last date recorded.

SPRING MIGRATION TABLES - 2003

|              | TANAGER |       | TOWHEE  |      | SPARROW       |          |              |       |           |           |             |           |           |           | WHITE-THROATED | WHITE-CROWNED |           |
|--------------|---------|-------|---------|------|---------------|----------|--------------|-------|-----------|-----------|-------------|-----------|-----------|-----------|----------------|---------------|-----------|
|              | SCARLET | 4/28> | EASTERN | 3/9> | AMERICAN TREE | CHIPPING | CLAY-COLORED | FIELD | VESPER    | SAVANNAH  | GRASSHOPPER | HENSLOW'S | FOX       | LINCOLN'S |                |               | SWAMP     |
| ALLEGHENY    | 4/28>   | 3/9>  |         |      | >3/17         | 3/24>    | 5/26>        | 3/16> | 4/5>      | 4/13>     | 4/25>       | 4/13>     | 3/5-4/10  | 5/7-5/15  | 4/16>          | >5/13         | >5/16     |
| ARMSTRONG    | 5/22>   | 4/2>  |         |      | >3/7          | 4/30>    |              | 3/27> |           |           |             |           |           |           | 4/30>          | >5/10         | 3/8-5/9   |
| BEDFORD      | 5/11>   | 4/19> |         |      | >4/15         | 5/1>     |              |       |           |           | 5/5>        |           | >3/20     |           |                |               | >3/22     |
| BERKS        | 5/1>    | 3/28> |         |      | >3/15         | 3/26>    | 3/16-4/25    | 3/31> |           |           | 4/26>       |           | >4/5      | 5/10-5/11 |                | >5/16         | >5/12     |
| BRADFORD     | 5/4>    | 4/24> |         |      | >4/4          | 3/27>    |              |       |           |           | 5/25>       |           | >5/10     |           |                | >5/10         |           |
| BUCKS        | 4/28>   | 4/2>  |         |      | >4/8          |          |              |       | 4/3-4/30  |           | 5/20>       |           | >4/6      | 4/9-5/24  |                | >6/8          | >5/10     |
| BUTLER       | 4/29>   | 3/26> |         |      |               | 4/2>     |              |       |           |           | 4/28>       |           |           |           |                |               | >5/10     |
| CAMBRIA      | 5/7>    | 3/25> |         |      | >4/4          | 3/28>    |              | 4/19> | 4/13>     | 5/9>      | 4/27>       | 5/29>     | 3/27-4/18 | 3/20>     |                | >5/21         | >5/19     |
| CENTRE       | 4/30>   | 3/28> |         |      | >3/9          | 3/28>    |              |       | 3/26>     | 4/15>     | 4/26>       |           | 3/16-4/8  | 5/9-5/9   |                | >5/18         | 5/1-5/18  |
| CHESTER      | 4/30>   | 4/19> |         |      | >3/17         | 4/3>     |              |       | 5/10-5/10 |           | 5/10>       |           | >4/4      | 5/10-5/10 |                | >5/19         | >5/20     |
| CLARION      | 5/7>    | 2/2>  |         |      | >2/26         | 5/8>     | 6/6>         | 3/23> |           | 4/12>     | 4/30>       | 4/20>     | 3/15-4/8  | 5/14>     | 4/1>           |               | >5/14     |
| CLINTON      | 5/5>    | 4/24> |         |      | >3/15         | 3/28>    |              | 3/26> |           | 4/25>     |             |           | 3/30-4/12 |           |                | >5/16         |           |
| CRAWFORD     | 5/22>   | 3/17> |         |      | >4/20         | 4/12>    | 3/31-4/6     | 3/15> | 3/30>     | 3/19>     |             |           | >4/2      |           | 4/9>           |               | 3/17>     |
| CUMBERLAND   | 4/27>   | 3/28> |         |      | >4/18         | 4/20>    |              | 4/3>  | 3/27>     | 4/28>     | 4/28>       |           | >5/10     | 5/8-5/22  | 4/20>          |               | >5/9      |
| DAUPHIN      | 4/28>   | 3/28> |         |      | >3/20         | 3/26>    |              |       |           |           |             |           | 3/9-4/15  |           | 4/20>          |               | >5/10     |
| DELAWARE     | 5/2>    |       |         |      |               | 3/29>    |              |       |           | >4/12     |             |           | >4/15     |           |                | >5/31         | >5/12     |
| ERIE         | 5/1>    | 4/27> |         |      | >5/26         | 4/1>     | 5/6-5/19     | 4/1>  | 4/1>      | 4/1>      | 5/30>       | 5/30>     | >4/15     | 4/30-5/30 |                | >5/30         | 4/30-5/30 |
| FAYETTE      | 5/3>    | 4/17> |         |      |               | 5/3>     |              | 4/27> | 5/10>     | 5/3>      | 5/10>       |           | >4/13     | 5/10-5/10 | 5/10>          | 5/3>          | 5/10-5/10 |
| FOREST       | 5/6>    | 4/17> |         |      | >3/21         | 4/1>     |              | 4/17> | 5/4>      |           |             |           |           |           | 4/17>          | >5/10         | >5/10     |
| FULTON       | 5/4>    | 4/11> |         |      |               | 5/10>    |              | 3/15> | 4/11>     | 4/20>     | 5/10>       |           | 3/17-3/23 |           |                | 4/11>         |           |
| GREENE       | 4/29>   | 3/22> |         |      |               | 3/28>    |              |       |           | 4/25>     | 4/26>       |           |           |           |                |               | >5/6      |
| HUNTINGDON   | 5/1>    | 3/22> |         |      | >3/29         | 3/28>    |              | 3/26> | 3/25>     | 3/29>     | 5/3>        |           | 3/5-4/24  | 4/29-5/5  |                | >5/15         | >5/20     |
| INDIANA      | 5/1>    | 3/18> |         |      | >4/12         | 3/30>    |              |       | 5/10>     |           | 4/20>       | 4/26>     | >4/8      | 5/10-5/18 |                | >5/10         | 4/23-5/18 |
| LANCASTER    | 5/3>    |       |         |      | >3/23         | 3/23>    |              |       | 5/7>      |           | 4/30>       |           | >4/5      | 5/10-5/10 |                | >5/11         | >5/10     |
| LEBANON      | 5/3>    | 3/9>  |         |      |               | 3/27>    |              |       |           |           | 5/10>       |           | >4/12     | 5/10>     |                | >5/14         | >5/10     |
| LUZERNE      | 5/1>    | 4/20> |         |      | >4/3          | 4/10>    |              | 3/1>  | 5/2>      | 4/18>     | 5/1>        |           | >3/16     | >5/3      | 3/1>           | 3/1>          | 3/1-5/16  |
| MCKEAN       | 5/3>    | 4/15> |         |      | >4/13         | 4/6>     |              |       | 3/29>     | 3/29>     | 5/10>       |           | 3/16-4/11 | 5/5-5/10  |                |               | 5/5-5/10  |
| MERCER       | 5/2>    | 3/15> |         |      | >4/14         | 4/2>     |              | 3/19> |           | 3/5>      | 5/10>       |           | 3/10-4/12 | 5/4>      |                | 4/3>          | 4/6-5/17  |
| MONTOUR      | 5/8>    | 4/15> |         |      | >3/2          | 4/17>    |              |       |           |           |             |           |           |           |                |               | >3/31     |
| NORTHAMPTON  | 4/30>   | 2/16> |         |      | >3/20         | 3/22>    |              | 2/16> | 4/12>     |           | 5/9>        |           | >4/7      | 4/15-5/23 |                | >5/10         | >5/23     |
| PHILADELPHIA | 5/4>    |       |         |      | >4/1          | 4/10>    |              |       |           | 4/27-5/10 |             |           | >4/1      | 4/30-5/18 |                | >5/18         | 5/15-5/15 |
| SCHUYLKILL   | 5/2>    | 3/27> |         |      | >3/11         | 3/26>    | 4/24-4/24    |       | 3/27>     | 4/9>      | 6/5>        |           | 2/24-4/19 | 5/10-5/18 |                | >5/18         | 5/6-5/18  |
| SOMERSET     | 5/1>    | 3/28> |         |      | >4/10         | 3/26>    |              | 2/3>  | 3/22>     | 4/22>     | 5/4>        | 5/22>     | >4/21     | 5/22-5/22 | 4/15>          | >5/22         |           |
| TIOGA        |         | 4/2>  |         |      | >3/28         | 4/16>    |              |       |           |           |             |           | 3/16-4/13 |           |                | 3/26>         | >5/10     |
| VENANGO      | 5/1>    | 2/25> |         |      | >3/31         | 4/11>    | 3/22>        |       | 4/4>      | 4/22>     | 4/30>       | 4/30>     | 3/17-4/27 | 5/3-5/24  | 4/4-5/9        | 3/9-5/21      |           |
| WYOMING      | 5/5>    | 4/22> |         |      |               | 4/16>    |              | 5/5>  | 5/10>     | 5/10>     | 5/10>       |           | 4/2-4/8   |           | 4/14>          | 4/8>          | 5/5-5/10  |

Two dates indicate first and last dates recorded. A date with a ">" after it indicates first date recorded. A date after a ">" indicates last date recorded.

SPRING MIGRATION TABLES - 2003

|              | JUNCO     |  | LONGSPUR  | BUNTING |           | GROSBEAK      |      | BUNTING   |         | BOBOLINK | BLACKBIRD<br>RED-WINGED | MEADOWLARK<br>EASTERN | BLACKBIRD<br>RUSTY | GRACKLE<br>COMMON | COWBIRD      |         | ORIOLE    |  | FINCH<br>PURPLE |
|--------------|-----------|--|-----------|---------|-----------|---------------|------|-----------|---------|----------|-------------------------|-----------------------|--------------------|-------------------|--------------|---------|-----------|--|-----------------|
|              | DARK-EYED |  |           | LAPLAND | SNOW      | ROSE-BREASTED | BLUE | INDIGO    | WYOMING |          |                         |                       |                    |                   | BROWN-HEADED | ORCHARD | BALTIMORE |  |                 |
| ALLEGHENY    |           |  |           |         | 4/22>     |               |      | 5/10>     | 3/2>    | 3/15>    | 3/15-4/16               | 2/12>                 | 5/5>               | 4/28>             |              |         |           |  | >5/24           |
| ARMSTRONG    | >4/2      |  |           |         | 5/10>     |               |      | 5/10>     | 3/9>    | 4/2>     |                         | 3/8>                  | 4/2>               |                   |              |         |           |  | 5/6>            |
| BEDFORD      |           |  | >4/9      | >3/10   | 4/30>     |               |      | 5/7>      | 4/6>    |          |                         |                       | 5/1>               |                   |              |         |           |  | 5/1>            |
| BERKS        | >4/28     |  |           |         | 4/26>     |               |      | 5/10>     |         |          | >5/7                    |                       | 4/29>              |                   |              |         |           |  | 5/2>            |
| BRADFORD     |           |  |           |         | 5/3>      |               |      | 5/19>     | 3/5>    |          |                         |                       |                    |                   |              |         |           |  | 5/2>            |
| BUCKS        | >5/12     |  |           |         | 4/23>     |               |      | 5/3>      | 2/6>    | 3/15>    | 3/16-4/5                |                       | 4/30>              |                   |              |         |           |  | 4/24>           |
| BUTLER       |           |  |           |         | 4/29>     |               |      | 4/30>     | 3/4>    |          | 3/22-5/1                |                       | 5/1>               |                   |              |         |           |  | 4/30>           |
| CAMBRIA      |           |  |           |         | 4/29>     |               |      | 5/3>      | 3/6>    | 3/14>    |                         |                       | 3/25>              |                   |              |         |           |  | 5/2>            |
| CENTRE       |           |  |           |         | 4/27>     |               |      | 4/26>     |         |          | 4/18-5/3                |                       |                    |                   |              |         |           |  | 4/26>           |
| CHESTER      | >5/29     |  | >2/1      | >3/1    | 4/29>     |               |      | 5/2>      | 3/1>    | 3/29>    | 4/4-4/4                 |                       | 4/28>              |                   |              |         |           |  | 4/25>           |
| CLARION      |           |  |           |         | 4/30>     |               |      | 4/27>     | 3/4>    | 3/30>    |                         |                       | 5/14>              |                   |              |         |           |  | 5/1>            |
| CLINTON      | 2/1>      |  |           |         | 4/30>     |               |      | 5/2>      | 3/10>   | 3/20>    |                         |                       | 4/30>              |                   |              |         |           |  | 5/1>            |
| CRAWFORD     |           |  |           |         | 4/20>     |               |      | 5/1>      | 3/5>    |          | 3/15-4/24               |                       |                    |                   |              |         |           |  | 5/15>           |
| CUMBERLAND   |           |  | >3/17     | >3/17   | 4/28>     |               |      | 4/28>     | 3/1>    | 3/1>     | 3/19-4/28               |                       | 3/1>               |                   |              |         |           |  | 4/28>           |
| DAUPHIN      | >5/10     |  | >3/16     |         | 4/22>     |               |      | 5/10>     | 3/5>    | 3/16>    | 3/28-4/10               |                       | 3/11>              |                   |              |         |           |  | 4/22>           |
| DELAWARE     | >4/1      |  | 3/2-3/2   |         | 3/22-5/1  |               |      | 5/10>     |         |          | >4/24                   |                       | 5/1>               |                   |              |         |           |  | 5/1>            |
| ERIE         |           |  | 3/25>     | 2/3>    | 4/30>     |               |      | 5/1>      | 2/20>   |          | 3/15-5/15               |                       | 2/20>              |                   |              |         |           |  | 5/1>            |
| FAYETTE      |           |  |           |         | 5/3>      |               |      | 5/3>      | 3/15>   | 5/3>     |                         |                       | 3/18>              |                   |              |         |           |  | 5/3>            |
| FOREST       |           |  |           |         | 5/2>      |               |      | 5/7>      | 3/6>    | 5/9>     |                         |                       | 3/18>              |                   |              |         |           |  | 5/2>            |
| FULTON       | 3/18-5/26 |  |           |         | 5/10>     |               |      | 5/4>      | 3/9>    | 3/9>     | 3/15>                   |                       | 4/1>               |                   |              |         |           |  | 5/10>           |
| GREENE       |           |  |           |         | 5/2>      |               |      | 5/3>      | 2/23>   |          |                         |                       |                    |                   |              |         |           |  | 4/29>           |
| HUNTINGDON   |           |  |           |         | 5/1>      |               |      | 5/3>      | 3/5>    |          | 3/14-4/27               |                       | 2/23>              |                   |              |         |           |  | 5/1>            |
| INDIANA      | >5/18     |  |           |         | 4/30>     |               |      | 5/1>      | 3/4>    | 3/15>    | 3/6-4/30                |                       | 4/1>               |                   |              |         |           |  | 4/30>           |
| LANCASTER    | >4/23     |  |           |         | 5/9>      |               |      | 4/26>     | 5/4>    |          | 3/29-4/19               |                       |                    |                   |              |         |           |  | 5/4>            |
| LEBANON      |           |  |           |         | 5/3>      |               |      | 5/10>     | 4/6>    |          |                         |                       |                    |                   |              |         |           |  | 5/3>            |
| LUZERNE      | 3/1>      |  |           |         | 4/26>     |               |      | 4/26>     | 3/1>    | 3/1>     | >5/6                    |                       | 3/1>               |                   |              |         |           |  | 4/30>           |
| MCKEAN       |           |  |           |         | 5/3>      |               |      | 5/10>     | 3/12>   | 3/29>    | 3/29-4/29               |                       | 3/12>              |                   |              |         |           |  | 5/3>            |
| MERCER       |           |  |           |         | 4/25>     |               |      | 4/27>     | 3/3>    | 3/13>    | 3/3>                    |                       | 3/12>              |                   |              |         |           |  | 4/28>           |
| MONTOUR      |           |  |           |         | 6/5>      |               |      | 5/8>      | 3/14>   |          |                         |                       | 3/15>              |                   |              |         |           |  | 5/4>            |
| NORTHAMPTON  | >6/1      |  | >2/19     | >2/19   | 4/29>     |               |      | 5/8>      | 3/16>   | 3/21>    | 3/27-5/2                |                       | 3/16>              |                   |              |         |           |  | 4/28>           |
| PHILADELPHIA | >4/15     |  |           |         | 4/21-5/10 |               |      | 5/10-5/26 |         | 6/2-6/2  | >5/10                   |                       |                    |                   |              |         |           |  | 4/25>           |
| SCHUYLKILL   | >5/10     |  | 3/16-3/16 | 3/1-3/1 |           |               |      | 5/2>      | 2/28>   | 3/22>    | 3/9-4/19                |                       | 3/12>              |                   |              |         |           |  | 4/30>           |
| SOMERSET     |           |  | >1/28     |         | 4/29>     |               |      | 4/27>     | 1/7>    | 3/5>     | 3/26>                   |                       | 3/9>               |                   |              |         |           |  | 5/1>            |
| TIOGA        |           |  |           |         | 5/1>      |               |      | 5/8>      | 3/15>   | 3/30>    | 3/30-3/30               |                       | 3/15>              |                   |              |         |           |  | 5/4>            |
| VENANGO      |           |  | 2/8-2/8   | 4/29>   |           |               |      | 4/30>     | 3/6>    |          | 4/30-4/30               |                       | 3/6>               |                   |              |         |           |  | 5/2>            |
| WYOMING      |           |  |           |         | 5/5>      |               |      | 5/2>      | 3/17>   | 4/4>     |                         |                       | 4/2>               |                   |              |         |           |  | 5/2>            |

Two dates indicate first and last dates recorded. A date with a ">" after it indicates first date recorded. A date after a ">" indicates last date recorded.

SPRING MIGRATION TABLES - 2003

|              | CROSSBILL |                  | REDPOLL<br>COMMON | GROSBEEK<br>EVENING |
|--------------|-----------|------------------|-------------------|---------------------|
|              | RED       | WHITE-<br>WINGED |                   |                     |
| ALLEGHENY    |           |                  |                   |                     |
| ARMSTRONG    |           |                  |                   |                     |
| BEDFORD      |           |                  |                   |                     |
| BERKS        |           |                  |                   |                     |
| BRADFORD     |           |                  |                   | >6/17               |
| BUCKS        |           |                  |                   |                     |
| BUTLER       |           |                  |                   |                     |
| CAMBRIA      |           |                  |                   |                     |
| CENTRE       |           |                  |                   |                     |
| CHESTER      |           |                  |                   |                     |
| CLARION      |           |                  |                   |                     |
| CLINTON      |           |                  |                   |                     |
| CRAWFORD     |           |                  |                   |                     |
| CUMBERLAND   |           |                  |                   |                     |
| DAUPHIN      | >4/27     |                  |                   |                     |
| DELAWARE     |           |                  |                   |                     |
| ERIE         |           |                  |                   |                     |
| FAYETTE      |           |                  |                   |                     |
| FOREST       |           |                  |                   |                     |
| FULTON       |           |                  |                   |                     |
| GREENE       |           |                  |                   |                     |
| HUNTINGDON   |           |                  |                   |                     |
| INDIANA      |           |                  |                   | >3/15               |
| LANCASTER    |           |                  |                   |                     |
| LEBANON      |           | >4/12            |                   |                     |
| LUZERNE      |           |                  | >4/2              |                     |
| MCKEAN       |           |                  |                   |                     |
| MERCER       |           |                  |                   |                     |
| MONTOUR      |           |                  |                   |                     |
| NORTHAMPTON  |           |                  |                   |                     |
| PHILADELPHIA |           |                  |                   |                     |
| SCHUYLKILL   |           |                  |                   | 2/15-2/15           |
| SOMERSET     |           |                  |                   |                     |
| TIOGA        |           |                  |                   |                     |
| VENANGO      |           |                  |                   |                     |
| WYOMING      |           |                  |                   |                     |

Two dates indicate first and last dates recorded. A date with a ">" after it indicates first date recorded. A date after a ">" indicates last date recorded.

# PHOTO QUIZ #1



Here is a little something to meditate on. Solution will be in the next issue.

---

## PHONE NUMBERS OF INTEREST

### Pennsylvania Bird Hotlines

|                      |                    |
|----------------------|--------------------|
| ALLENTOWN            | 610-252-3455       |
| CENTRAL              | 717-255-1212 X5761 |
| PHILADELPHIA         | 215-567-2473       |
| POCONOS              | 570-588-7401       |
| READING/BERKS COUNTY | 610-376-6000 X2473 |
| SCHUYLKILL COUNTY    | 570-622-6013       |
| WESTERN              | 412-963-0560       |
| WILKES-BARRE         | 570-825-2473       |

**Bird Band Reporting - 1-800-327-BAND** (for reporting Band Numbers only)

---

**PUBLICATION SCHEDULE:** Materials to be included in the publication are needed by the due dates listed below.

| <u>Issue</u> | <u>Due Date</u> | <u>Publication Date</u> |
|--------------|-----------------|-------------------------|
| Dec-Feb      | Mar 31          | May                     |
| Mar-May      | Jun 30          | August                  |
| Jun-Jul      | Aug 31          | October                 |
| Aug-Nov      | Dec 31          | February                |

**SUBMISSION OF MATERIALS FOR PUBLICATION:** We welcome submission of articles, artwork or photographs. Any materials submitted must be accompanied by a self-addressed stamped envelope if the author desires to have the material returned. Articles should be sent on IBM compatible disks when possible (Word Perfect preferred, but ASCII is also acceptable). **PENNSYLVANIA BIRDS** assumes no liability or responsibility for any unsolicited materials.

**REPRINTS:** Requests for reprints of articles will be handled by the editors.

**PENNSYLVANIA BIRDS** is not responsible for the quality of goods or services advertised herein.

**ADVERTISING:** Current rates for classified ads are \$0.75 a word with a minimum of 20 words. A copy-ready block of approximately 2" by 2" would be \$50.00 per issue. Rates for other sizes or types of advertising are negotiable. Copy deadline is as noted above. Payment should be sent with copy.

Send all articles, artwork, advertising, etc. to **Nick Pulcinella, 613 HOWARD RD, West Chester, PA 19380, nickpul@bellatlantic.net.**