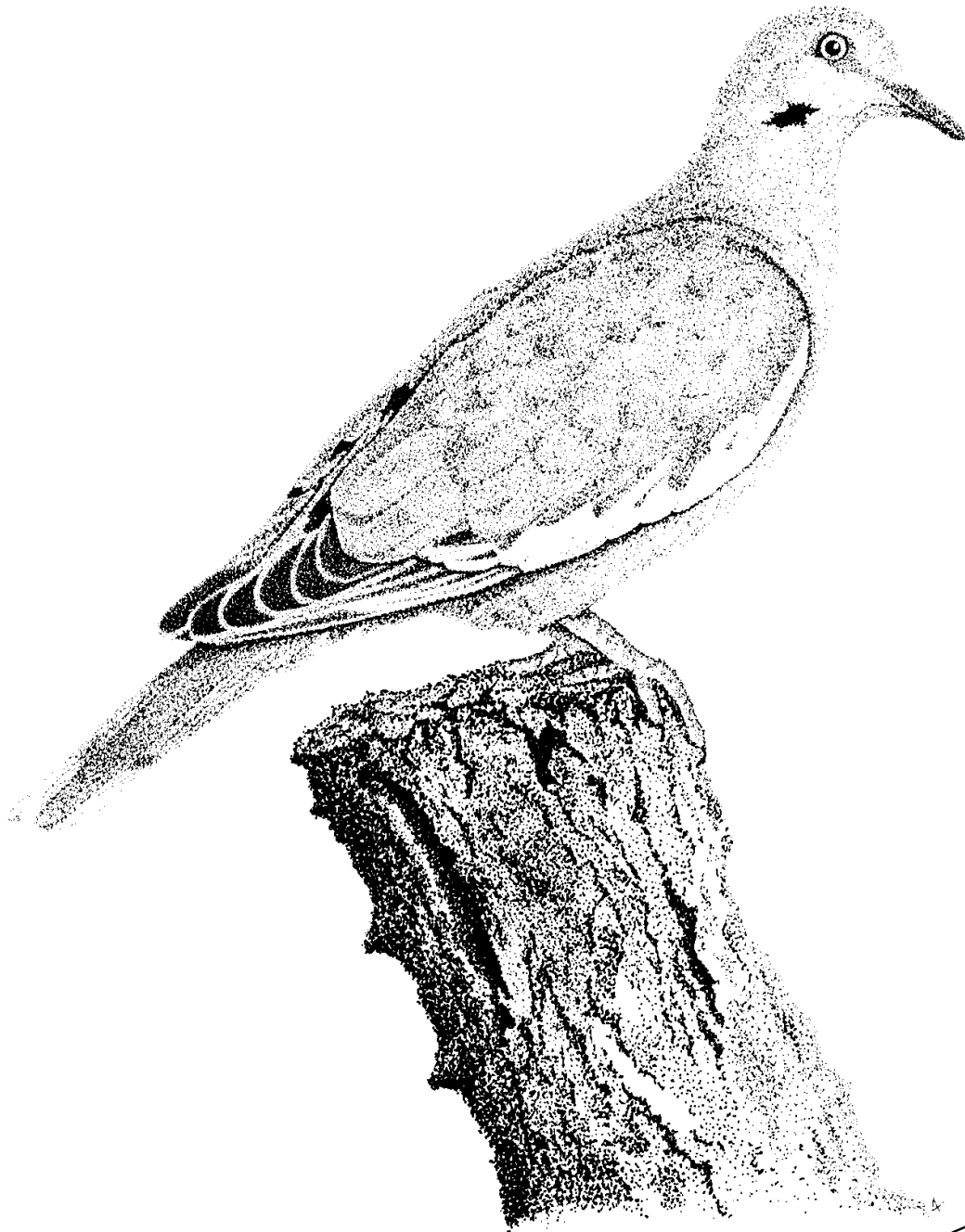
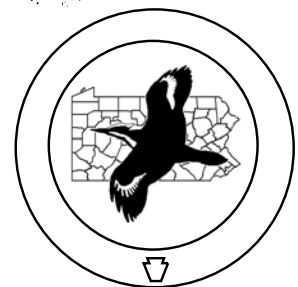


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COVER: White-winged Dove by Adrian Binns

from the Editors...

New AOU Checklist Changes

We jumped the gun on last issue's description of the latest AOU list changes. We were relying on a WEB site that claimed to be using the new order. (Ah, the dangers of the internet!) Shortly after we went to press, we received our copy of the checklist and discovered a discrepancy with what we wrote. The gnatcatchers were NOT moved in front of kinglets.

Our new Field Checklist is correct and was re-checked against the actual AOU publication. Also, the forms that we sent to our compilers had discrepancies, but we use the correct order in the Seasonal Occurrence Tables.

Fall NAMC Report Delayed

Because of tardy submissions by compilers, the Fall NAMC report usually included in this issue, will not be ready until next issue. We hope that compilers will be more timely next year so that it can be included in the proper season's issue.

New Compilers

After Tom Clauser's valiant efforts at stimulating reports from the Pocono counties, new compilers have stepped up to take over in two of them.

Monroe County's new compiler is Brian Hardiman, Monroe County Conservation District Environmental Education Center, 8050 Running Valley Rd.,

Stroudsburg, 18360, 717-629-3061, fax=629-3063.

Pike County's new compiler is Charlie Muise, PEEC, RR2 Box 1010, Dingmans Ferry, PA 18328, (w) 717-828-2319, (h) 717-828-6385 or peec@ptd.net.

We welcome these new additions to our corps of volunteers.

Area Code Changes

Please note the new area codes for compilers in the northeastern portion of the state. Area code 717 split into 717(south) and 570 (north).

CBC Reports due

If you are a CBC compiler, please get your report to Ted Floyd as soon as possible. We do not want to miss the deadline for the next issue. We will go to press whether we have all of the reports in or not. We made exceptions these last two issues, and vow not to do it again. We have prided ourselves on the timeliness of our publication and do not want to slip into a lesser standard.

Do you want your count to be the missing one?

Annual PSO Meeting

The 1999 annual Pennsylvania Society for Ornithology meeting will be held in Morgantown, Berks County on September 24-26. Details will be published in the next issue.

It will be the Tenth Anniversary and should not be missed!

PA BIRDLISTS Reports Due

Please use the form included on the back mailing cover of this issue to submit your annual and life list totals to Terry Schieffer. Please send it to him no later than March 1. There should be a lot of big lists this year, considering all of the rarities that occurred in the state this year. ♣

Frank & Barb Haas
Chief Editors

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The 7th Annual North American Migration Count (NAMC) in Pennsylvania

by Ted Floyd

Overview

The 7th annual North American Migration Count (NAMC) was held on a soggy and somewhat chilly 9 May 1998. It was a record-setting count in every sense: 8 observers in 43 counties recorded 237 species. Previous records were 39 counties (1996), 730 observers (1997), and 234 species (1997). Count day came toward the end of a long period of unrelenting northerly winds, which were probably responsible for a nearly complete absence of passage transients (especially passerines).

The Weather

Much more so than with Christmas Bird Count (CBC) data, NAMC data are critically influenced by count day weather. This is due to: (a) the biological fact that migrants are much more heavily impacted by count-day meteorological phenomena than are winterers; and (b) the statistical fact that the NAMC is conducted on a single day as opposed to the two-week period during which the CBC is conducted.

And how about that weather?! Down here in Philadelphia County, when Michael Pratt and I finished up around 4:00 p.m., it was pouring down raining, and the winds were whipping out of the northeast at 25 mph. Surprisingly, the coldest weather in the state was recorded in Philadelphia, typically the commonwealth's meteorological "hot spot."

The conditions were more brutal in the southeastern part of the state than elsewhere, but nowhere was the weather conducive to good migrant numbers. Throughout the state on count day, there was a strong northerly flow. It was generally northeasterly in the eastern part of the state, and more northwesterly in the west. Rain was fairly steady in the east, but only intermittent further west.

The conditions leading up to count day weren't any more propitious than count day itself. For weeks, the whole region had been experiencing a highly unseasonable sustained

northerly flow.

The birds

There were several major trends, all of them easily related to the weather conditions: large numbers of lingerers, very low numbers of seasonal species, and a good influx of coastal species.

1. Lingerers

Among lingering species, the most impressive showing was put on by the "winter finches: 20 **Red Crossbills** on 4 counts, 50 **White-winged Crossbills** on 3 counts, 137 **Pine Siskins** on 21 counts, 84 **Evening Grosbeaks** on 13 counts, and even a flock of 14 **Common Redpolls** in Huntingdon County. In most years, that would be a decidedly above-average showing even on the statewide CBC tally. Other late passerines included 12 **Rusty Blackbirds** on 5 counts, 2 **Yellow-headed Blackbirds** on 2 counts, and a **Fox Sparrow** in Blair County. Among non-passerines, it was surprising that all 16 species of Pennsylvania's annually occurring raptors made appearances on count day. Highlights included a late **Rough-legged Hawk** in Mercer County and 3 **Golden Eagles** on 2 counts.

2. No-shows

Species like **Olive-sided Flycatcher**, **Yellow-bellied Flycatcher**, and **Gray-cheeked Thrush** were missed altogether. It was the first-ever miss for Olive-sided Flycatcher. Gray-cheeked Thrush had been missed once before (in 1992) and Yellow-bellied Flycatcher had been missed twice before (in 1992 and 1993), but that was back in the first two years of the NAMC when coverage and participation in Pennsylvania wasn't nearly as heavy as it has become in recent years. Meanwhile, other typical mid-May migrants were extremely scarce, such as **Common Nighthawk** (12 birds on 7 counts), **Willow Flycatcher** (6 birds on 4

counts), **Swainson's Thrush** (a paltry 11 birds on 9 counts), **Tennessee Warbler** (only 20 birds on 5 counts), **Bay-breasted Warbler** (25 birds on 11 counts), **Canada Warbler** (21 birds on 7 counts), and **Wilson's Warbler** (4 birds on 3 counts). The preceding numbers are exceptionally low in comparison with recent years' counts, even without an adjustment for the record participation levels this year.

3. A coastal influx?

Count day weather in Berks County was horrid: northeast winds to 25 mph with light to moderate rain all day long. In other words, just the way the birders like it in Berks County! With 43 birders in the field in Berks County alone, it was almost anticlimactic when I learned that one of their top birds was an ultra-rare **Arctic Tern**, seen well by the likes of Ken and Harold Lebo, Eric and Jan Witmer, Frank and Barb Haas, John Fedak, Randy Miller, and Jonathan Heller. Other birds that may have been blown inland on the strong northeast winds included: **Red-throated Loon** (1 bird in Cumberland County), **Common Loon** (402 birds in 29 counties), **Horned Grebe** (29 birds in 9 counties), **Little Blue Heron** (1 bird in Centre County), **Tricolored Heron** (1 bird in Lancaster County), **Cattle Egret** (2 birds in 2 counties), **Glossy Ibis** (1 bird in Lancaster County), **Snow Goose** (142 birds in 5 counties), **Greater Scaup** (1 bird in Franklin County), **Oldsquaw** (4 birds in 2 counties), **Black Scoter** (1 bird in Indiana County), **Surf Scoter** (7 birds in 4 counties), **Red-breasted Merganser** (72 birds in 16 counties), and **Ruddy Duck** (248 birds in 20 counties).

Table 1. The Top Counts

Franklin County took top honors this year, with a grand total of 166 species. Lancaster followed rather distantly at 161, and 6 other counts finished above 150. Here are the Top 10:

| | |
|-----------------|-----|
| 1. Franklin | 166 |
| 2. Lancaster | 161 |
| 3. Cumberland | 158 |
| 4. Centre | 154 |
| 5. Butler | 153 |
| 5. Schuylkill | 153 |
| 5. Westmoreland | 153 |
| 8. Dauphin | 152 |
| 9. Huntingdon | 149 |
| 10. Indiana | 146 |

Table 2. The Most Participants

It was gratifying to see that 10 counties fielded at least 35 observers. Here's the list:

| | |
|-----------------|----|
| 1. Franklin | 56 |
| 1. Westmoreland | 56 |
| 3. Indiana | 55 |
| 4. Chester | 44 |
| 5. Berks | 43 |
| 6. Bucks | 40 |
| 7. Allegheny | 37 |
| 7. Lancaster | 37 |
| 9. Schuylkill | 36 |
| 10. Dauphin | 35 |

Table 3. The Most Widespread Birds

There were 19 species that were found on all 43 counts. All 19 are common breeders in the state, and only 3 of them (Wood Thrush, Red-eyed Vireo, and Ovenbird) are long-distance migrants. Here's the list:

| |
|---------------------------|
| 1. Mallard |
| 2. Yellow-shafted Flicker |
| 3. Eastern Phoebe |
| 4. Tree Swallow |
| 5. Blue Jay |
| 6. American Crow |
| 7. Tufted Titmouse |
| 8. Wood Thrush |
| 9. American Robin |
| 10. Gray Catbird |
| 11. Red-eyed Vireo |
| 12. Ovenbird |
| 13. Northern Cardinal |
| 14. Eastern Towhee |
| 15. Chipping Sparrow |
| 16. Song Sparrow |
| 17. Red-winged Blackbird |
| 18. Common Grackle |
| 19. American Goldfinch |

Table 4. The Most Abundant Birds

They're a rather undistinguished lot, but here they are:

| | |
|-----------------|--------|
| 1. Canada Goose | 13,400 |
|-----------------|--------|

| | |
|-------------------------|--------|
| 2. American Robin | 12,994 |
| 3. European Starling | 12,490 |
| 4. Red-winged Blackbird | 11,516 |
| 5. Common Grackle | 10,706 |
| 6. American Crow | 6,748 |
| 7. Tree Swallow | 6,427 |
| 8. Barn Swallow | 6,114 |
| 9. American Goldfinch | 4,750 |
| 10. Mourning Dove | 4,640 |

Table 5. The most abundant northbound non-breeders

This is a list of the most abundant species that do not breed in Pennsylvania. The birds on this list are remarkable for: (a) their diversity and (b) their scarcity. Here's the list:

| | |
|----------------------------|-----|
| 1. Common Loon | 402 |
| 2. Solitary Sandpiper | 248 |
| 3. Least Sandpiper | 213 |
| 4. Laughing Gull | 153 |
| 5. Snow Goose | 142 |
| 6. Ruby-crowned Kinglet | 121 |
| 7. American Pipit | 111 |
| 8. Lesser Yellowlegs | 75 |
| 9. Greater Yellowlegs | 73 |
| 10. White-winged Crossbill | 50 |

Table 6. The most abundant passage transients.

This is a list of the most abundant species that are never resident in Pennsylvania (whether as winterers or breeders or non-breeding summer residents). The list is a small one and goes to show just how uncommon the true passage transients were on count day. Here's the list:

| | |
|---------------------------|-----|
| 1. Solitary Sandpiper | 248 |
| 2. Least Sandpiper | 213 |
| 3. Lesser Yellowlegs | 75 |
| 4. Greater Yellowlegs | 73 |
| 5. Palm Warbler | 34 |
| 6. Bay-breasted Warbler | 25 |
| 7. Semipalmated Sandpiper | 23 |
| 8. Pectoral Sandpiper | 21 |
| 9. Tennessee Warbler | 20 |
| 10. Cape May Warbler | 19 |

Table 7. The most abundant transient passerines

Finally, here's a list of the passerine species that meet the criteria in Table 6. The list is tiny, and further illustrates the remarkable scarcity of true passage transients on count day. Here's the list:

| | |
|-----------------|----|
| 1. Palm Warbler | 34 |
|-----------------|----|

| | |
|---------------------------|----|
| 2. Bay-breasted Warbler | 25 |
| 3. Tennessee Warbler | 20 |
| 4. Cape May Warbler | 19 |
| 5. Philadelphia Vireo | 5 |
| 5. Lincoln's Sparrow | 5 |
| 7. Wilson's Warbler | 4 |
| 8. Orange-crowned Warbler | 2 |
| 8. Swainson's Warbler | 2 |
| 10. Connecticut Warbler | 1 |

Perspective

Probably, the statewide big day effort in Pennsylvania will never quite rival the celebrated and high-profile New Jersey effort ("The World Series of Birding"). For one thing, there was the problem that the NAMC and the World Series were on the same day in 1998, which contributed to a significant defection of southeastern Pennsylvania's top birding talent. For another thing, many of us are starting to wonder if NAMC day will ever coincide with a weather pattern that can be characterized as anything other than "totally miserable". Bottom line: if we ever get nice weather on count day, I think 250 species and 1000 observers in 50 counties is an eminently realistic goal to shoot for.

But even with the wretched weather, Pennsylvania once again proved to be a fine place to spend a long day in the field during the second weekend in May. The spring warbler flight through Pennsylvania is often as good as it gets anywhere in the world, and this year proved no exception: we found 37 species of warblers, including **Golden-winged, Orange-crowned, Yellow-throated, Cerulean, Prothonotary, Worm-eating, Swainson's, Kentucky, Hooded, Connecticut, and Mourning.** It's the sort of list we've come to take for granted here in Pennsylvania, but it's an assemblage of species that few, if any, other states or provinces could boast during a single, soggy day in May. Other highlights included: an even dozen species of Ciconiiformes (14 if you include the vultures!); 16 species of Falconiformes (14 if the vultures don't count); 25 species of Anatidae; and a modest 16 species of shorebirds.

Now in its 7th year, the NAMC in Pennsylvania seems to have become established as a regular part of the annual birding cycle. Interest and participation in the NAMC continue to grow, and I doubt we're even approaching a leveling-off point yet.

For example, it is amazing to consider that some of the absolute best counties in the commonwealth still receive no coverage at all on count day. Most egregious is the omission of Erie County, surely the most exciting place to be in Pennsylvania in mid-May. A Delaware County effort would likely pay handsome dividends, as well. Even the lesser-known counties can produce long lists of good birds, as a quick glance at Table 1 will reveal.

We do the NAMC because it is fun, of course. (And it really is, even when you've been thoroughly soaked and badly chilled for 20 hours straight...) But we're also aware that the NAMC is starting to take form as an intriguing and valuable long-term citizen-scientist monitoring effort. Let's keep it up!

Acknowledgments

Abundant thanks to all the compilers who got their data to me in timely (and in certain cases, timeless) fashion. And, as always, thanks to Frank and Barb for their heroic forbearance.

Appendix

List of participants, compilers' addresses, and unidentified or hybrid forms. Note: the unidentified and hybrid forms that appear in this appendix are not figured into the summary statistics in the main table.

1. Adams County (ADAM) — Peter Buglar, Art Kennell, Barry Myers, Rusty Ryan, Thora Stith, Deb Siefken, Fraya Qually. **Art Kennell, compiler (2332 Bullfrog Road, Warbler Woods, Fairfield PA 17320, 717-642-6995).**

2. Allegheny County (ALLE) — Mary Ann Aug, Henry Bakkela, Marge Bakkela, Don Beck, Paul Beck, Paul Brown, Glenn Davis, Joann Davis, Mark Dixon, Betty Dowling, Mike Fialkovich, Bill Hintze, Clare Holzner, Bill Judd, Vickie Judd, Scott Kinzey, Lydia Konecky, Eric Barchbein, Carol McCullough, Fred McCullough, Mark McKellar, Melanie McKellar, Joyce Murdy, John Murphy, Kathy Murphy, Joan Novogradac, Chris Parker, Marion Parker, Regis Schultz, Sam Sinderson, Jack Solomon, Sue Solomon, Claire Staples, Chriss Stephens, Mary Ann Thomas, Jim Valimont, Mark Williams. **Paul Hess, compiler (1412 Hawthorne Street, Natrona Heights PA 15065, 724-226-2323, phess@salsgiver.com).** gull sp. 1; chickadee sp. 14.

3. Beaver County (BEAV) — Barbara Kiester, Bruce Kiester, Joel Mason, Pat

Mason, Rick Mason, Shirley Mutz. **Rick Mason, compiler (475 Maxine Drive, Beaver Falls PA 15010, 724-847-0909, rdmason@ccia.com).**

4. Bedford County (BEDF) — Dixie Defibaugh, Etter Grazier, Ron Kidd, Clyde McGinnett, Bill Miles, Sara Miles, Ruth Mook, Don Morris, Janet Shaffer, Evelyn Stinson, Susan Wakeman. **Rosie McGinnett, compiler (Route 1 Box 426, Bedford PA 15522, 814-623-1229).** flycatcher sp. 1.

5. Berks County (BERK) — K. Bohanak, R. Carpenter, C. Drasher I, C. Drasher II, J. Dunkle, M. Ehst, D. Fatora, K. Grim, L. Harbaugh, R. Heise, J. Holcomb, L. Ingram, R. Keller, A. Kendall, B. Kratz, H. Lebo, K. Lebo, N. LeVan, L. Lloyd, S. Martin, K. McComsly, M. Monroe, N. Plaisted, B. Pounder, B. Renkus, D. Reynolds, P. Reynolds, L. Scheirer, H. Silagy, J. Silagy, B. Smith, N. Smith, R. Smith, R. Spangle, M. Spence, C. Tobias, M. Tobias, B. Uhrich, M. Vrabil, T. Wirth, A. Wlasniewski, M. Wlasniewski, T. Wlasniewski. **Matt Wlasniewski, compiler (21 Scenic Drive, Hamburg PA 19526, 610-562-7550, matski@enter.net).** peep sp. 2; chickadee sp. 2.

6. Blair County (BLAI) — Bill Birtch, Marcia Bonta, Wes Burket, Janet DeMuth, Bea Dorminy, Debbie Haine, Collette Heller, Willi Heller, Bill King, Alice Kotala, Stan Kotala, Glen Pelter, John Salvetti, Katharine Temple, Terry Wentz. **Bill King, compiler (3021 West Chestnut Avenue, Altoona PA 16601, 814-942-7673, wkingsr@aol.com).** peep sp. 1.

7. Bucks County (BUCK) — D. Allison I, D. Allison II, B. Ashton, C. Ashton, J. Barrell, A. Bert, G. Campbell, K. Campbell, G. Carmichael, J. Carmichael, C. Crunkleton, C. Deemer, T. Evans, S. Farbotnik, R. French, J. Gahlagher, G. Gladston, N. Goldstein, R. Hamilton, J. Hartley, A. Henry, K. Kitson, C. Lyman, J. Lyman, M. Lyman, W. Margolis, J. McCarthy, D. McClintock, B. McGlaughlin, M. Pringle, F. Reckner, T. Reckner, P. Rossi, H. Rufe, J. Rufe, M. Rutbell, R. Scheibner, S. Senneur, J. Stewart, D. Toth, W. Whitelam, T. Wurtenberger. **Ken Kitson, compiler (204 Headquarters Road, Ottsville PA 18942, 610-847-2968, kkitkraft@aol.com).**

8. Butler County (BUTL) — Harriet Bauer, Helen Beck, Andy Bidwell, Graham Bier, Suzanne Butcher, Anna Craig, Dick Craig, Ruth Crawford, Helen Ferguson, Larry Helgeman, Sarah Ibershoff, Mike McGratz, Mark McKellar, Ann Oesterling, Don Oesterling, Betsy Owens, George Reese, Bill Sayles, Mrs. Sayles, Betty Starr, Bob Walczak, Gene Wilhelm, Joanne Wilhelm, Mary Wilson. **Gene Wilhelm, compiler (513 Kelly Boulevard, Slippery Rock PA 16057-1145, 724-794-**

2434). Empidonax sp. 1.

9. Cameron County (CAME) — John Fedak, Deuane Hoffman. **Deuane Hoffmann, compiler (3406 Montour Street, Harrisburg PA 17111, 717-564-7475, raven@paonline.com).** swallow sp. 30.

10. Centre County (CENT) — Joe Bishop, Dorothy Bordner, Dave Brandes, Ed Budd, Debra Cochran, Margaret Dunson, Bob Fowles, Alice Fuller, Ted Fuller, Molly Heath, Harry Henderson, Mark Henry, Mary Lovett, Phil Lovett, Alison Norris, Will Norris, Tim O'Connell, Becky Peplinski, John Peplinski, DiAnn Prosser, Brian Quay, Kelly Quay, Paul Rodewald, Kris Sedmera, Kevil Sherrill, Ursula Sherrill, Barb Snyder, Bob Snyder, Eugene Zielinski. **Eugene Zielinski, compiler (1322 Old 220 Road, Bellefonte PA 16823, 814-353-8212).**

11. Chester County (CHES) — Brad Angell, Gardiner Angell, Bill Barber, Nancy Bernhardt, Robert Bernhardt, Barry Blust, Devault Chrisman, Bill Clark, Elinor Clark, Bob Coleman, Robert Cook, Orville Donnelly, Paul Early, Ted Enterline, Alice Erb, Tom Hollowell, Mike Harvell, Bill Goddu, Dan Hegarty, Beryl Hurlock, Phyllis Hurlock, Mary Alice Knox, Grant Lashbook, Margie Lashbrook, Betty Mather, John McNamara, Martin Page, George Perera, Charles Riley, Helene Riley, Janet Roberts, Elois Rogers, Grier Saunders, Marianne Seitzer, Russ Swett, Lisa Tull, Dale Umbel, Judy White, Christine Wick, Paul Wick, Eleanor Wolf, Richard Wolf. **Martin Page, compiler (9 Old Covered Bridge Road, Newton Square PA 19073-1211, 610-359-9887, martin_page@email.msn.com).**

12. Clarion County (CLAR) — Margaret Buckwalter, Patricia Conway, Pete Dalby, Michael Leahy, Carl Schuur, Ruth Schuur, Helen Marie Williams, plus 9 members of Pete Dalby's *Field Ornithology* class at Clarion University. **Michael Leahy, compiler (P.O. Box 15, Knox PA 16232, 814-797-2287, kleahy@usachoice.net).**

13. Clearfield County (CLEA) — Mary Ann Belin, Stephen Belin, Imogene Ickes, Beverly Matchock, Bob Matchock, Angelia Priselac, Katie Priselac, Lucia Priselac, Michael Priselac. **Stephen and Mary Ann Belin, compilers (R.R. 1 Box 285, Houtzdale PA 16651, 814-378-5848, belin@clearnet.net).**

14. Crawford County (CRAW) — Dan Bickel, Joan Knudson, Chuck Tague, plus 22 participants on a *Nature Observer News* outing to Geneva Marsh. **Chuck Tague, compiler (432 Olympia Road, Pittsburgh PA 15211, 412-488-8760, bluejay@city-net.com).**

15. Cumberland County (CUMB) — Ed Bernot, Jane Earle, Don Ebricht, Kevin Gentzel, Don Henise, Robyn Henise, Les Keck, Ramsay Koury, Pete Lusardi, Don Pattison, Joan Pattison, Joan Renninger, Pat Sabol, Bob Schnell, Polly Schnell, Judy Stine. **Ramsay Koury, compiler (123 Old Ford Drive, Camp Hill PA 17011, 717-761-1871, rkoury123@aol.com).**

16. Dauphin County (DAUP) — David Allen, Bill Baker, Linda Baker, Jane Barnette, Scott Bills, Stephanie Bills, Dan Bogar, Ed Chubb, Joe Church, Mike Church, Nancy Cladel, Bernie Crist, Jon Dale, Cindy Dunn, Dick Franz, Laura Franz, Jim Funck, Joan Funck, Vivian Johns, Carl Juris, Nancy Juris, Dan Kline, Gary LaBelle, Eloise Laskowski, Terry Neumyer, Rick Price, Ron Ramsey, Grace Randolph, Michele Richards, John Showers, Tom Smith, David Solomon, Nancy Solomon, Jim Stanford, Guy Ubaghs. **Grace Randolph, compiler (1060 Country Hill Drive, Harrisburg PA 17111-4656, 717-652-8129, grandol@msn.com).** *Empidonax* sp. 1; "Brewster's" Warbler 2.

17. Fayette County (FAYE) — Elaine Harmon, James Harmon, Rebecca Harmon. **Elaine Harmon, compiler (RD 2 Box 179, Perryopolis PA 15473, 724-736-8819, harmon@hhs.net).**

18. Franklin County (FRAN) — Tom Ash, Blaine Barnhart, Vaughnie Barnhart, Anna Barton, Richard Bell, Charles Beltz, Henry Betz, Denny Bingeman, Darlene Bitner, Eleanor Bower, Richard Bower, Mildred Brechbill, Joan Duffield, Shirly Fenstermacher, Bess Funk, Kenneth Gabler, Carl Garner, Joyce Gartside, Dale Gearhart, Davison Grove, Jesse Hague, Wilmer Hague, Betty Hayden, William Hayden, Donna Heim, Bert Henry, Maynard Henry, Roger Herr-Paul, Barbara Higgins, Dan Higgins, MaryJane High, Bob Kochert, Dave Lehman, Arlene Lipper, James Long, Cheryl Long, Elaine Margret, Eric Martin, George Martin, Russ Martz, Nancy Myers, Lori Nichols, Libby Nispel, Steve Parlate, Connie Phiel, Delores Purnell, Willard Rahn, Tim Rahn, Phil Schaff, Joyce Schaff, Joe Strite, Nancy Strite, Joyce Stuff, Ken Tyson, Ed Yelinak, Jane Yerkes. **Kenneth Gabler, compiler (2381 Lincoln Way West, Chambersburg PA 17201-8655, 717-263-3164).**

19. Greene County (GREE) — Anna Blystone, George Blystone, Ed Brezovsky, Terry Dayton, Al Deynzer, Allen Hill, Marj Howard, James Lovetre, Kathy Kern, Kathy Kisner, John McCann, Sue Moore, Mary Potter, Kathy Reeves, Kathy Renner, Alberta Sparklin, Benjy Strobe, Eric Wachsmuth, Bill Wentzel, Cory Wentzel, Jean Williams, Lew Williams, Jean Zimmerman. **Kathy Kern, compiler (RD 1 Box 58, Waynesburg PA 15370,**

jekern@greenepa.net).

20. Huntingdon County (HUNT) — Megan August, Nick Bolgiano, Jim Curtis, Deb Grady, Deb Grove, Greg Grove, Dave Kyler, Greg Socha, Shirley Wagoner, Doug Wentzel. **Nick Bolgiano, compiler (711 West Foster Avenue, State College PA 16801, 814-234-16801, nbolgiano@minitab.com).** *Empidonax* sp. 1.

21. Indiana County (INDI) — Pat Andrascik, Mary Bash, Alice Beatty, Bill Betts, Tom Betts, Vernon Blystone, Jean Bobella, Lee Carnahan, Roger Carnahan, Art Cochran, Millie Cochran, Ernest Conrad, Geraldine Conrad, Marcy Cunkelman, Jim Dearing, Gloria Dick, Harriet Elliston, Anna Frew, Don Frew, Nelson Frew, Judy Gallo, Sue Gatti, Steve Graff, Ed Griffith, Carol Guba, Margaret Higbee, Roger Higbee, Len Hess, Leon Hue, Dory Jacobs, Pat Johner, Betty Johnson, Gloria Lamer, Mary Little, Beth Marshall, Flo McGuire, Glenda Mears, Helen Mehus, Marilyn Moore, Marjorie Peterson, Alice Pierce, Bill Reddinger, Matt Sarver, Robert Seelhorst, Paulette Sexton, Jack Sexton, Nancy Smeltzer, Charlotte Smith, Patrick Snickles, Linda Stormer, Roger Stormer, Mark Strittmatter, Georgette Syster, John Taylor, Marge Vatter. **Margaret Higbee, compiler (RR2 Box 166, Indiana PA 15701, 724-354-3493, bcoriole@twd.net).** *Empidonax* sp. 1.

22. Juniata County (JUNI) — Jane Bair, Esther Bratton, Chris Kanagy, Daniel Kanagy, Henry Kanagy, Elmer Petersheim, Henry Petersheim, Toby Petersheim, Amos Swarey, Aden Trayer, Linda Whitesel. **Linda Whitesel, compiler (RR 3 Box 820, Mifflintown PA 17059, 717-436-8048).** "Brewster's" Warbler 1.

23. Lackawanna County (LACK) — Derry Bird, Nancy Bird, Rosann Bongey, Michael Carey, Mark Catalano, Mary Kay Coleman, Glenn Czulada, Linda Doherty, Beth Gallagher, Eugene Gallagher, Lois Gallagher, Arlene Jarocha, Marie Jarocha, Gerald Klebauskas, John La Capra, Patricia Manville, Carol Reigle, Rich Saccocio, Jane Shulenberg, Susan Zenke, Tinka Zenke. **Rosann Bongey, compiler (1414 The Hideout, Lake Ariel PA 18436, 717-698-8226).** "Brewster's" Warbler 2.

24. Lancaster County (LANC) — Carl Beck, Yvonne Beck, Phil Bedient, Jerry Book, Bruce Carl, Elaine Chalfont, Larry Coble, Bill Earhart, Tom Garner, Betty Gish, Jane Grissinger, Barb Haas, Frank Haas, Fred Habegger, Dennis Harnley, Tom Hopson, Keith Keidich, Darryl Lawnsbery, Sally Lawnsbery, Patrick McElhenny, Valerie McElhenny, Anne Mease, Randy Miller, Harold Morrin, Beth Morrison, Rick Morton, Chris Pederson,

Brian Schleinkofer, Jane Schreffler, Leon Schreffler, Jeffrey Sheets, Nathaniel Sheets, Gary Shirk, Jim Smith, Rita Smith, Rosemary Spreha, Eric Witmer. **Bruce Carl, compiler (628 Fulton Street, Akron PA 17501, 717-859-4179).**

25. Lawrence County (LAWR) — Barb Dean, George Dean, Priscilla Stoughton, Linda Wagner, Bob Walczak. **Barb Dean, compiler (321 East Meyer Avenue, New Castle PA 16105, 742-658-3393).**

26. Lehigh County (LEHI) — Bernard Morris, Pauline Morris. **Bernie Morris, compiler (4324 Glenwood Drive, Emmaus PA 18049, 610-967-0257).**

27. Luzerne County (LUZE) — Sue Barron, Mark Blauer, Sandy Goodwin, Steuben Granger, Vivian Granger, Alan Gregory, Nancy Houck, Robert Houck, James Hoyson, John Jakoby, Ed Johnson, Scott Killam, Rick Roval, Barbara McAfee, Sam Merrill, Kathleen Niznik, Lisa Paull, Sara Paull, Autumn Pfeiffer, Carol Samuel, Judy Santora, Jim Shoemaker, Bob Wasilewski. **Jim Shoemaker, compiler (24 Abrahams Drive, Wyoming PA 18644-1812, 717-825-9401, hkq@epix.net).**

28. Lycoming County (LYCO) — Bill Barlow, Ron Beach, Mark Cline, Pat Courtright, Phil Courtright, Paul Egli, Peggy Egli, Wesley Egli, Greg Forcey, Lloyd Forcey, Kathleen Mirabella, Joann pap la Rin, Maurice pa la Rin, Mike Reeder, Barbara Reish, Ed Reish, Fred Stiner. **Wes Egli, compiler (PO Box 381, Picture Rocks PA 17762, 717-584-3083).**

29. Mercer County (MERC) — Suzanne Butcher, Shirley McCarl, Rosie Noll, Randy Stringer, Daniel Troyer, Harvey Troyer, Jerry Troyer, Melvin Troyer, Neal Troyer, Linda Wagner. **Suzanne Butcher, compiler (11 Norwick Drive, Youngstown OH 44505, 330-759-1945, sarbie@msn.com).**

30. Mifflin County (MIFF) — Sara Bender, Gloria Bickel, Marilyn Brubaker, Amanda Kauffman, Grace Kauffman, Jewel Kauffman, William Kauffman, Pearl Kauffman, Donald Kenep, Margaret Kenep, Aaron Miller, Darryl Miller, Levada Parchey, Len Pepper, Carol Sanderson, Ruth Smeltzer, Sara Smith, Sara Snook, Catherine Snyder, Nora Torquato, Carolyn Wray, Joe Wray, Sally Zook. **Margaret Kenep, compiler (590 Mountain Lane, McVeytown PA 17051, 717-899-6252, mkenep@lcworkshop.com).**

31. Montgomery County (MONT) — Dorothy Balme, Dave Christiansen, Scott McConnell, Eileen McDonnell, Bill Murphy, Carl Williams. **Scott McConnell, compiler (143 Oakdale Avenue, Norristown PA 19403, 610-539-5421).**

32. Northampton County (NORT) — Tim Burris, Virginia Derbyshire, Linda Freedman, Elaine Mease, Carole Mebus, Eileen Schmidt, Joe Zajacek. **Elaine Mease, compiler (2366 Springtown Hill Road, Hellertown PA 18055, 610-346-7754, measede@enter.net).**

33. Perry County (PERR) — Don Helin, Andy Higgs, Elaine Howe. **Elaine Howe, compiler (PO Box 23, Newport PA 17074-0023, 717-567-2216, dhelin@igateway.com).**

34. Philadelphia County (PHIL) — Erica Brendel, Ted Floyd, Ed Fingerhood, Michael Pratt. **Ed Fingerhood, compiler (70205 Delaire Landing Road, Philadelphia PA 19114, 215-637-2741, efingerhoo@aol.com).**

35. Potter County (POTT) — Jennifer Arnold, Seth Arnold, Betty Devling, Mary Devling, David Hauber, Mary Herrold, Stan Hess, Jack Mitterer, Lucille Nicholson, James Nicholson, Helene Nawrocki, Stache Nawrocki, John Priss, Nancy Priss, Gary Witmer. **Gary Witmer, compiler (19 Avenue B, Coudersport PA 16915, 814-274-7655, haubers3@penn.com).**

36. Schuylkill County (SCHU) — Barbara Allerton, Glenn Bode, Mildred Bode, Tom Clauser, Vivian Connor, John DeBalko, Jonathan DeBalko, Michelle DeBalko, Dave Dolinsky, Laurie Dolinsky, Denise Donmoyer, Marilyn Gamble, Laurie Goodrich, Lisa Grey, Kerry Grim, John Guscott, Barb Jucker, Carol Keesey, Margaret Kerschner, Dan Knarr, Dave Kruel, AnnMarie Liebner, Fred Liebner, Bill Malarkey, Joan Morgan, Tom Noonan, Regina Raudenbush, Suzanne Righter, Nefer Sfarra, Gary Stauffer, Ann Tihansky, Janie Ulsh, Michael Ward, Sally Weisacosky, Vivian Weiss, Doug Wood. **Tom Clauser, compiler (213 Deerfield Drive, Pottsville PA 17901, 717-622-1363, mclauser@pottsville.infi.net).**

37. Nick Kerlin (SULL) — Fred Crafts, Ginny Davis, Bob Exley, Joan Exley, Nancy Heaton, Helen Jordan, Nick Kerlin, Hayden Laubach, Zayne Laubach, Ann Leach, Daniel Long, Donna Long, Emily Long, Hanna Long, Rob Megraw, Beverly Motko, Dave Motko, Janet Mueller, MaryLou Shaffer, Dave Reitz, Flo Reitz, Doris Shrimp, Phyllis Stout, Stuart Stout, Larry Worthington, Matt Worthington. **Nick Kerlin, compiler (PO Box 62, Forksville PA 18616, 717-924-3542, bluebird@epix.net).**

38. Tioga County (TIOG) — Diane Bastian, Fay Bastian, Christian Kaufmann, Kelly Kilmer, Madeline Murphy, Tom Murphy, Bob Ross, Harold Rothrock, Jean Rothrock, Dave Sechrist, Beth Walker, Craig Worthington. **Dave Sechrist,**

compiler (RD 1 Box 175A, Liberty PA 16930, 717-324-5321, dwsbear@hotmail.com).

39. Venango County (VENA) — Kathie Goodblood, Jerry Stanley, Russ States, Carolyn Worley. **Russ States, compiler (24 East Fifth Street, Oil City PA 16301, 814-676-6320, russs@csonline.net).**

40. Wayne County (WAYN) — Voni Strasser plus 6 other observers. **Voni Strasser, compiler (RR2 Box 37, Hawley PA 18428, 717-226-1460, sawwhet@ptd.net).**

41. Westmoreland County (WEST) — LindaLou Baker, Ken Byerly, Dick Byers, Eileen Byers, Jane Caywood, Art Chiapparelli, Ellie Cochran, Ruth Cooper, Joe Corsales, Adrienne Demczyk, Dorothy Demorest, Marvin Demorest, Helen Dolerick, Derry Dorman, Mary Dorman, Dorothy Ferguson, Phyllis Flasher, Sandy Frank, Randi Gerrish, Sarah Gerrish, J. Grubeck, T. Gruber, Hob Harlan, R. Harrison, George Heasley, Joan Holiday, Linda Huber, Duncan Hyslop, Karen Jackson, Merle Jackson, Jamie Kollar, Ray Kollar, Andrea Johnson, Hope King, Iori Kraus, Candy Kubinec, Dennis Lauffer, Bob Leberman, Shirley Lisbon, Mark Mackay, Mark McConaughy, Martha McGinnis, Bob Mulvihill, Tom Pearson, Jim Pemberton, Jenny Pizzutelli, Wendy Poole, Barb Rich, Diane Sever, Mary Shirland, Harvey Spindle, Shirley Spindle, Kristen Sposato, Ellie Stanton, Roberta Stauffer, Michele Zerebnick. **Dick Byers, compiler (3570 Clawson Drive, Murrysville PA 15668, 724-327-6189).**

42. Wyoming County (WYOM) — Bob Daniels, Edwin Johnson, Jeanne Kilmer, Shane Kleiner, Bill Reid. **Bill Reid, compiler (RR 2 Box 143, Tunkhannock PA 18657, 717-836-2734).**

43. York County (YORK) — Carol Walker, Scott Walker. **Scott Walker, compiler (610 Park Avenue, New Cumberland PA 17070-1724, 717-774-2567, n3sw@worldnet.att.net).**

by the *Pennsylvania Birds* editors because of a lack of documentation. The first was a Wilson's Plover in Adams County. This species has not been documented in the state since 1976 and the confusion with young Kildeer and Semi-palmated Plovers makes any report suspect. The bird was supposedly seen over at least two days, yet no word was spread about it, it was not reported in the county compiler's report for the quarter, and no documentation was submitted. A bird this rare in the state deserves better attention than that!

The second species deleted was a report of an American Tree Sparrow, also from Adams County. There are no records of Tree Sparrows occurring in Pennsylvania after April, and therefore any such report should be documented.

*Frank & Barb Haas
Editors*

Editor's Note:

Two species reported on the NAMC were not included in this report

NORTH AMERICAN MIGRATION COUNT - MAY 9, 1998

| | ADAM | ALLE | BEAV | BEDF | BERK | BLAI | BUCK | BUTL | CAME | CENT | CHES | CLAR | CLEA | CRAW |
|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Red-throated Loon | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Common Loon | 1 | - | - | - | 8 | 9 | 10 | 7 | - | 4 | 42 | 8 | 1 | - |
| Pied-billed Grebe | - | - | - | - | 10 | - | - | 1 | - | 4 | 2 | - | 1 | 3 |
| Horned Grebe | - | - | - | - | - | - | - | 1 | - | - | 2 | 7 | - | - |
| Double-crested Cormorant | - | 30 | 10 | 1 | 22 | - | 59 | 3 | - | 2 | 27 | 1 | - | 4 |
| American Bittern | - | - | - | - | 1 | 2 | - | - | - | 1 | - | - | - | 1 |
| Least Bittern | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Great Blue Heron | 3 | 15 | 26 | - | 25 | - | 25 | 23 | 3 | 8 | 6 | 3 | 5 | 13 |
| Great Egret | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - |
| Snowy Egret | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Little Blue Heron | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - |
| Tricolored Heron | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cattle Egret | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Green Heron | 1 | 1 | - | 1 | 1 | 4 | 9 | - | 4 | 5 | 3 | 2 | - | 1 |
| Black-crowned Night-Heron | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Yellow-crowned Night-Heron | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Glossy Ibis | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Black Vulture | 13 | - | - | - | 11 | - | 10 | - | - | 6 | 17 | - | - | - |
| Turkey Vulture | 11 | 11 | 11 | 21 | 84 | 40 | 82 | 22 | 17 | 65 | 105 | 25 | 10 | 22 |
| Snow Goose | - | - | - | - | 10 | - | - | - | - | - | - | - | - | - |
| Canada Goose | 229 | 282 | 84 | 25 | 645 | 27 | 710 | 217 | 19 | 113 | 269 | 90 | 35 | 108 |
| Mute Swan | - | 2 | - | - | 13 | - | 10 | 1 | - | 1 | - | - | - | 5 |
| Tundra Swan | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Wood Duck | 11 | 13 | 3 | 12 | 25 | 1 | 13 | 22 | 15 | 9 | 37 | - | 10 | 14 |
| Gadwall | - | - | - | - | - | - | - | - | - | 1 | - | - | - | 3 |
| American Wigeon | - | - | - | - | - | - | - | - | - | 3 | - | - | - | 2 |
| American Black Duck | - | - | - | - | - | - | 1 | 2 | - | - | - | - | - | - |
| Mallard | 17 | 103 | 28 | 95 | 175 | 33 | 139 | 21 | 17 | 114 | 71 | 9 | 18 | 21 |
| Blue-winged Teal | - | - | - | - | - | - | - | 8 | - | 5 | - | - | - | 2 |
| Northern Shoveler | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Green-winged Teal | - | - | - | - | 1 | - | - | - | - | - | - | - | - | 2 |
| Canvasback | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Redhead | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - |
| Ring-necked Duck | - | - | - | - | 5 | - | - | 2 | - | - | 2 | - | - | - |
| Greater Scaup | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Lesser Scaup | - | - | - | - | 1 | - | - | 2 | - | - | - | - | - | - |
| Surf Scoter | - | - | - | - | - | - | - | 1 | - | - | - | 1 | - | - |
| Black Scoter | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Oldsquaw | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Bufflehead | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Hooded Merganser | - | - | - | - | - | - | - | 9 | - | 3 | 1 | - | - | - |
| Common Merganser | - | - | - | 2 | - | - | 5 | - | 20 | 3 | 7 | - | - | - |
| Red-breasted Merganser | - | - | - | - | - | - | - | 18 | - | - | 6 | 7 | 1 | 1 |
| Ruddy Duck | - | - | - | - | 25 | 3 | 5 | 33 | - | 5 | 18 | 17 | - | 5 |
| Osprey | 5 | 1 | - | - | 6 | 4 | 5 | 4 | 1 | 8 | 3 | 1 | 2 | - |
| Bald Eagle | - | - | - | - | 1 | - | - | 4 | - | 3 | - | - | - | 4 |
| Northern Harrier | - | - | - | - | - | - | - | 1 | - | - | - | - | - | 3 |
| Sharp-shinned Hawk | - | 2 | - | - | 5 | - | 3 | 1 | 2 | 1 | 3 | 3 | - | - |
| Cooper's Hawk | 1 | 3 | 1 | - | 2 | 2 | 3 | 2 | - | 3 | 1 | 1 | - | - |
| Northern Goshawk | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Red-shouldered Hawk | - | - | - | - | 1 | - | - | 6 | - | 1 | - | 1 | - | - |
| Broad-winged Hawk | - | 3 | - | - | 7 | 3 | - | 3 | 1 | 11 | - | 2 | 1 | - |
| Red-tailed Hawk | 17 | 27 | 5 | 15 | 24 | 5 | 20 | 12 | 3 | 15 | 14 | 3 | 4 | 6 |
| Rough-legged Hawk | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Golden Eagle | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| American Kestrel | 19 | - | 2 | 7 | 8 | 2 | 3 | 2 | - | 3 | 4 | 1 | - | 1 |
| Merlin | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Peregrine Falcon | - | 6 | - | - | - | - | - | - | - | - | - | - | - | - |

NORTH AMERICAN MIGRATION COUNT - MAY 9, 1998

| | ADAM | ALLE | BEAV | BEDF | BERK | BLAI | BUCK | BUTL | CAME | CENT | CHES | CLAR | CLEA | CRAW |
|---------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Ring-necked Pheasant | - | 2 | 1 | 1 | 8 | 2 | 3 | 4 | - | 5 | 2 | - | 1 | - |
| Ruffed Grouse | 1 | - | - | 12 | 1 | 26 | - | 3 | 4 | - | - | 3 | 7 | - |
| Wild Turkey | 2 | 22 | - | 18 | 3 | 2 | 6 | 3 | 21 | 1 | - | 1 | 4 | - |
| Northern Bobwhite | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - |
| Virginia Rail | - | - | - | - | - | 1 | 4 | 3 | - | - | 8 | - | - | 3 |
| Sora | - | - | - | - | 1 | 1 | - | 5 | - | 3 | 5 | - | - | 25 |
| Common Moorhen | - | - | - | - | - | - | - | 2 | - | - | - | - | - | 3 |
| American Coot | - | - | 1 | 6 | 20 | 3 | 1 | 6 | - | 8 | 3 | 1 | - | 1 |
| Black-bellied Plover | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Semipalmated Plover | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Killdeer | 17 | 29 | 4 | 17 | 26 | 12 | 14 | 41 | 2 | 30 | 17 | 8 | 6 | 2 |
| Greater Yellowlegs | 2 | 1 | - | 2 | 2 | 1 | 1 | 3 | - | 2 | 2 | - | - | 1 |
| Lesser Yellowlegs | 7 | - | - | - | 2 | - | - | 2 | - | 3 | 1 | - | - | 6 |
| Solitary Sandpiper | 17 | 6 | 1 | - | 5 | - | 10 | 4 | 1 | 24 | 3 | 1 | - | - |
| Spotted Sandpiper | 9 | 10 | 4 | 1 | 12 | 9 | 22 | 7 | 5 | 19 | 6 | - | 4 | 4 |
| Upland Sandpiper | - | - | - | - | - | - | - | 6 | - | - | - | - | - | - |
| Semipalmated Sandpiper | 2 | - | - | - | - | - | - | - | - | 1 | - | - | - | - |
| Least Sandpiper | 11 | 2 | - | - | 9 | - | - | - | - | 7 | 1 | - | - | - |
| Pectoral Sandpiper | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - |
| Dunlin | - | 1 | - | - | 4 | - | - | - | - | 2 | - | - | - | - |
| Short-billed Dowitcher | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - |
| Common Snipe | - | - | - | - | - | - | - | 12 | 3 | 9 | 1 | 2 | - | - |
| American Woodcock | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Laughing Gull | - | - | - | - | - | - | 119 | - | - | - | 1 | - | - | - |
| Bonaparte's Gull | - | - | - | - | 1 | - | - | 3 | - | - | - | - | - | - |
| Ring-billed Gull | - | 2 | 5 | - | 2 | 2 | 60 | 5 | - | 70 | - | 9 | - | 3 |
| Herring Gull | - | 20 | 1 | 1 | - | - | 57 | - | - | - | - | - | - | - |
| Great Black-backed Gull | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Arctic Tern | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| Common Tern | - | - | 1 | - | - | - | - | 2 | - | - | - | - | - | - |
| Forster's Tern | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Black Tern | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 |
| Rock Dove | 27 | 13 | 10 | 17 | 153 | 72 | 60 | 150 | 4 | 50 | 53 | 38 | 15 | 3 |
| Mourning Dove | 77 | 91 | 26 | 57 | 140 | 52 | 208 | 54 | 34 | 115 | 126 | 63 | 65 | 11 |
| Black-billed Cuckoo | - | 2 | - | - | - | 4 | - | 2 | - | 2 | - | - | 1 | - |
| Yellow-billed Cuckoo | 1 | 1 | 1 | 2 | 2 | 2 | - | 2 | - | 5 | 1 | - | - | - |
| Barn Owl | 2 | - | - | - | 2 | - | 2 | - | - | - | - | - | - | - |
| Eastern Screech-Owl | - | 1 | - | - | 5 | - | - | - | 1 | 3 | 12 | - | - | - |
| Great Horned Owl | 1 | - | - | - | 5 | - | 8 | 3 | 1 | 1 | - | - | 1 | - |
| Northern Saw-whet Owl | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - |
| Barred Owl | 3 | - | - | 1 | - | - | - | 1 | 2 | - | - | - | - | 1 |
| Common Nighthawk | - | - | - | 1 | - | - | - | - | - | - | 1 | - | - | - |
| Whip-poor-will | - | 1 | - | 2 | - | 1 | - | 4 | 2 | 5 | - | - | - | - |
| Chimney Swift | 29 | 65 | 64 | 14 | 36 | 45 | 350 | 118 | 17 | 94 | 117 | 11 | 3 | 5 |
| Ruby-throated Hummingbird | 8 | - | - | 17 | 7 | 7 | 4 | 3 | 3 | 11 | 4 | 1 | 4 | - |
| Belted Kingfisher | 3 | 3 | 8 | 3 | 6 | 3 | 8 | 4 | 5 | 12 | 16 | - | - | 4 |
| Red-headed Woodpecker | 5 | 1 | - | 1 | - | - | - | - | - | 3 | 1 | - | - | - |
| Red-bellied Woodpecker | 13 | 60 | 12 | 17 | 52 | 9 | 52 | 23 | 2 | 18 | 69 | 6 | - | 3 |
| Yellow-bellied Sapsucker | - | - | - | - | 1 | - | - | - | 7 | - | - | - | - | - |
| Downy Woodpecker | 17 | 20 | 9 | 11 | 43 | 7 | 28 | 21 | 8 | 20 | 33 | 5 | 4 | 1 |
| Hairy Woodpecker | 7 | 12 | 2 | 3 | 5 | 5 | 7 | 6 | 4 | 4 | 2 | 2 | - | - |
| Northern Flicker | 11 | 54 | 5 | 10 | 53 | 18 | 38 | 23 | 7 | 39 | 79 | 4 | 12 | 2 |
| Pileated Woodpecker | 2 | 5 | 2 | 6 | 4 | 9 | 3 | 6 | 6 | 6 | 2 | 3 | 3 | - |
| Eastern Wood-Pewee | 5 | - | - | - | 1 | - | - | 1 | - | 1 | 3 | 1 | - | - |
| Acadian Flycatcher | 2 | - | 1 | - | 3 | - | 2 | - | - | - | 7 | - | - | - |
| Alder Flycatcher | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - |
| Willow Flycatcher | - | - | - | 1 | - | - | - | 2 | - | - | - | 2 | - | - |
| Least Flycatcher | - | 3 | - | - | - | 1 | - | 9 | 53 | 21 | - | - | - | 2 |

NORTH AMERICAN MIGRATION COUNT - MAY 9, 1998

| | ADAM | ALLE | BEAV | BEDF | BERK | BLAI | BUCK | BUTL | CAME | CENT | CHES | CLAR | CLEA | CRAW |
|-------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Eastern Phoebe | 5 | 12 | 8 | 8 | 38 | 25 | 26 | 34 | 27 | 34 | 30 | 7 | 10 | 1 |
| Great Crested Flycatcher | 11 | 3 | 3 | 3 | 11 | 14 | 6 | 4 | 10 | 11 | 13 | 1 | 1 | - |
| Eastern Kingbird | 23 | 1 | 1 | 4 | 26 | - | 31 | 9 | 1 | 11 | 37 | 1 | 3 | 3 |
| Loggerhead Shrike | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| White-eyed Vireo | 7 | 8 | 1 | - | 6 | - | 2 | 6 | - | 2 | 25 | - | - | - |
| Blue-headed Vireo | - | - | 1 | - | 2 | 1 | - | 9 | 22 | 26 | - | 1 | - | 1 |
| Yellow-throated Vireo | 1 | 11 | - | - | 3 | 1 | 4 | 18 | 2 | 4 | 6 | - | - | 1 |
| Warbling Vireo | 1 | 6 | - | - | 10 | - | 11 | 12 | 8 | 4 | 11 | - | - | 2 |
| Philadelphia Vireo | - | - | - | - | - | - | 2 | - | - | 1 | - | - | - | - |
| Red-eyed Vireo | 33 | 28 | 13 | 6 | 44 | 10 | 30 | 50 | 24 | 32 | 83 | 4 | 1 | 1 |
| Blue Jay | 119 | 154 | 26 | 70 | 176 | 49 | 126 | 63 | 40 | 157 | 155 | 25 | 63 | 8 |
| American Crow | 97 | 170 | 35 | 47 | 229 | 70 | 276 | 61 | 86 | 226 | 199 | 116 | 76 | 23 |
| Fish Crow | 2 | - | - | - | 12 | - | 5 | - | 1 | 5 | 10 | - | - | - |
| Common Raven | 5 | - | - | 1 | - | 3 | - | - | 1 | 9 | 1 | 1 | 3 | - |
| Horned Lark | 11 | 3 | - | - | - | - | - | 5 | - | 6 | 18 | 1 | - | - |
| Purple Martin | 3 | - | - | 2 | 25 | 10 | 63 | - | - | - | 15 | - | - | 3 |
| Tree Swallow | 17 | 12 | 9 | 44 | 613 | 54 | 388 | 134 | 66 | 213 | 657 | 74 | 29 | 62 |
| Northern Rough-winged Swallow | 5 | 18 | 35 | 2 | 20 | 6 | 169 | 25 | 33 | 24 | 25 | - | 1 | 2 |
| Bank Swallow | 46 | 2 | - | - | 71 | - | 57 | 19 | 8 | 5 | 9 | 10 | - | - |
| Cliff Swallow | - | - | - | 10 | 60 | 1 | 127 | 112 | 17 | 15 | - | - | - | - |
| Barn Swallow | 87 | 64 | 38 | 40 | 265 | 54 | 218 | 211 | 73 | 267 | 313 | 53 | 15 | 9 |
| Carolina Chickadee | 37 | 18 | 3 | - | 15 | - | 58 | - | - | - | 93 | - | - | - |
| Black-capped Chickadee | - | 31 | 14 | 18 | 98 | 19 | 39 | 43 | 31 | 65 | 16 | 16 | 9 | 13 |
| Tufted Titmouse | 31 | 122 | 23 | 14 | 120 | 20 | 81 | 19 | 9 | 76 | 114 | 15 | 9 | 4 |
| Red-breasted Nuthatch | - | 4 | - | - | 3 | 1 | - | 1 | 2 | 3 | - | 4 | 2 | - |
| White-breasted Nuthatch | 19 | 21 | 3 | 14 | 25 | 14 | 17 | 2 | 4 | 21 | 14 | 7 | 5 | 2 |
| Brown Creeper | - | - | - | - | 3 | - | - | 4 | 5 | 6 | - | - | - | 2 |
| Carolina Wren | 6 | 51 | 10 | 4 | 20 | 3 | 23 | 7 | 1 | 17 | 38 | - | 17 | - |
| House Wren | 21 | 24 | 10 | 12 | 66 | 16 | 50 | 27 | 29 | 59 | 55 | 3 | 6 | - |
| Winter Wren | - | - | - | - | - | 2 | - | - | 5 | - | - | - | - | 1 |
| Marsh Wren | - | - | - | - | 1 | - | - | 2 | - | 1 | - | - | - | 12 |
| Golden-crowned Kinglet | - | - | - | 2 | 1 | 1 | - | - | 5 | 5 | - | - | - | - |
| Ruby-crowned Kinglet | 3 | 2 | 1 | 2 | 4 | 2 | 3 | 2 | 3 | 1 | 1 | - | 1 | 1 |
| Blue-gray Gnatcatcher | 21 | 30 | 15 | 4 | 37 | 9 | 35 | 28 | 20 | 19 | 49 | - | 3 | 3 |
| Eastern Bluebird | 21 | 7 | 9 | 44 | 62 | 24 | 35 | 18 | 8 | 32 | 66 | 21 | 4 | 4 |
| Veery | 7 | 1 | - | - | 25 | - | 11 | 1 | 2 | - | 27 | 2 | 1 | - |
| Swainson's Thrush | - | 2 | - | - | - | - | 1 | - | - | - | - | - | - | - |
| Hermit Thrush | - | 1 | - | - | 1 | - | - | - | 48 | 14 | - | 6 | 1 | - |
| Wood Thrush | 39 | 50 | 52 | 6 | 164 | 36 | 124 | 48 | 9 | 70 | 184 | 13 | 7 | 8 |
| American Robin | 243 | 379 | 134 | 99 | 553 | 127 | 569 | 147 | 127 | 404 | 456 | 84 | 140 | 28 |
| Gray Catbird | 41 | 40 | 12 | 18 | 303 | 18 | 194 | 50 | 15 | 178 | 340 | 21 | 19 | 7 |
| Northern Mockingbird | 22 | 9 | 2 | 9 | 32 | 1 | 32 | - | - | 10 | 43 | - | - | - |
| Brown Thrasher | 9 | 3 | 3 | 4 | 10 | 5 | 1 | 14 | 2 | 12 | 12 | 4 | - | 1 |
| European Starling | 491 | 159 | 71 | 39 | 555 | 128 | 775 | 192 | 36 | 374 | 369 | 76 | 58 | 47 |
| American Pipit | - | - | - | - | - | - | - | 4 | - | - | 1 | - | - | - |
| Cedar Waxwing | 3 | 8 | - | - | 15 | 5 | 60 | 39 | 3 | 43 | - | 5 | 5 | - |
| Blue-winged Warbler | 5 | 18 | 5 | - | 11 | 1 | 18 | 38 | - | 2 | 24 | 5 | 3 | - |
| Golden-winged Warbler | - | - | - | - | - | - | - | - | - | 8 | - | - | 2 | - |
| Tennessee Warbler | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Orange-crowned Warbler | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Nashville Warbler | 1 | 22 | 2 | - | - | 1 | - | 27 | 8 | 6 | - | - | - | - |
| Northern Parula | 3 | 4 | - | - | 12 | - | 19 | 2 | 14 | 3 | 27 | - | - | - |
| Yellow Warbler | 12 | 56 | 38 | 7 | 30 | 10 | 42 | 69 | 31 | 95 | 85 | 12 | 3 | 31 |
| Chestnut-sided Warbler | - | 7 | - | - | 8 | 1 | - | 8 | 18 | 34 | 4 | 5 | - | - |
| Magnolia Warbler | - | 1 | - | - | 1 | - | 1 | 10 | 9 | 2 | 3 | 2 | - | - |
| Cape May Warbler | - | - | - | - | - | 1 | - | - | 1 | 1 | - | - | - | - |
| Black-throated Blue Warbler | 2 | 8 | - | 1 | 16 | 7 | 9 | 6 | 43 | 25 | 13 | - | 2 | - |
| Myrtle Warbler | 13 | 47 | 9 | - | 173 | 5 | 136 | 12 | 35 | 132 | 126 | 7 | - | - |

NORTH AMERICAN MIGRATION COUNT - MAY 9, 1998

| | ADAM | ALLE | BEAV | BEDF | BERK | BLAI | BUCK | BUTL | CAME | CENT | CHES | CLAR | CLEA | CRAW |
|------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Black-throated Green Warbler | 3 | 19 | 3 | 1 | 21 | 9 | 8 | 8 | 149 | 103 | 3 | 6 | 7 | 1 |
| Blackburnian Warbler | - | 4 | - | - | 1 | 3 | - | 10 | 57 | 11 | 1 | 4 | - | - |
| Yellow-throated Warbler | - | 2 | 3 | 5 | - | - | - | 2 | - | - | - | - | - | - |
| Pine Warbler | - | 1 | - | - | 4 | - | - | - | - | 7 | - | - | - | - |
| Prairie Warbler | 9 | 6 | - | - | 9 | - | 14 | 7 | - | 2 | 3 | 1 | 1 | - |
| Palm Warbler | - | 1 | 1 | - | - | - | 4 | - | - | - | 2 | - | - | - |
| Bay-breasted Warbler | 1 | 3 | - | - | - | - | - | 10 | - | - | - | - | - | - |
| Blackpoll Warbler | 1 | 1 | - | - | - | - | 1 | 1 | - | - | - | - | - | - |
| Cerulean Warbler | - | 9 | 3 | - | 3 | 3 | - | 15 | 5 | 2 | - | - | - | - |
| Black-and-white Warbler | 1 | 3 | 1 | 2 | 47 | 7 | 22 | 7 | 76 | 37 | 18 | 2 | 5 | - |
| American Redstart | 14 | 17 | 9 | 7 | 25 | 34 | 10 | 41 | 126 | 59 | 28 | 1 | - | 5 |
| Prothonotary Warbler | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 |
| Worm-eating Warbler | 1 | 2 | 1 | 4 | 14 | 21 | 16 | 1 | 4 | 12 | 1 | - | - | - |
| Swainson's Warbler | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ovenbird | 21 | 6 | 3 | 27 | 166 | 39 | 59 | 30 | 218 | 172 | 67 | 21 | 49 | 3 |
| Northern Waterthrush | - | - | - | 1 | 1 | - | - | - | - | 5 | 6 | - | - | - |
| Louisiana Waterthrush | 5 | 2 | 1 | 3 | 12 | 10 | 5 | 4 | 4 | 11 | 7 | - | - | - |
| Kentucky Warbler | 3 | 7 | 3 | - | 1 | - | - | 12 | - | 2 | 2 | - | - | - |
| Connecticut Warbler | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| Mourning Warbler | - | - | - | - | - | - | - | 1 | 1 | - | - | - | - | - |
| Common Yellowthroat | 29 | 29 | 8 | 18 | 152 | 35 | 108 | 64 | 58 | 206 | 198 | 40 | 15 | 16 |
| Hooded Warbler | 2 | 8 | 3 | - | 2 | 5 | - | 24 | 1 | 7 | - | - | - | 2 |
| Canada Warbler | - | - | - | - | - | - | - | - | - | 8 | - | - | - | - |
| Wilson's Warbler | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| Yellow-breasted Chat | 2 | 2 | - | 3 | 1 | - | - | - | - | - | 1 | - | - | - |
| Summer Tanager | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Scarlet Tanager | 9 | 33 | 6 | 23 | 39 | 32 | 25 | 30 | 21 | 44 | 38 | 4 | - | 3 |
| Eastern Towhee | 27 | 85 | 28 | 42 | 92 | 64 | 25 | 73 | 69 | 209 | 84 | 31 | 31 | 1 |
| Chipping Sparrow | 21 | 56 | 40 | 49 | 72 | 28 | 41 | 129 | 67 | 180 | 62 | 24 | 31 | 8 |
| Field Sparrow | 14 | 50 | 27 | 23 | 42 | 12 | 35 | 25 | 101 | 101 | 41 | 14 | 6 | 1 |
| Vesper Sparrow | - | 2 | 3 | - | - | - | - | 1 | 2 | 9 | - | - | - | - |
| Savannah Sparrow | - | 3 | 4 | - | 2 | - | - | 109 | 1 | 11 | 5 | 10 | 1 | 1 |
| Grasshopper Sparrow | 2 | 8 | 3 | - | 2 | - | - | 39 | - | 12 | 1 | 6 | - | - |
| Henslow's Sparrow | - | 2 | - | - | - | - | - | 45 | - | - | - | 22 | - | - |
| Fox Sparrow | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| Song Sparrow | 19 | 131 | 23 | 30 | 116 | 19 | 136 | 37 | 69 | 176 | 178 | 14 | 13 | 21 |
| Lincoln's Sparrow | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| Swamp Sparrow | 1 | - | - | 1 | 3 | 2 | 15 | 8 | 4 | 22 | 3 | 4 | - | 17 |
| White-throated Sparrow | 5 | 36 | - | 11 | 23 | 7 | 16 | 12 | 4 | 22 | 13 | 1 | - | - |
| White-crowned Sparrow | 2 | - | 1 | 2 | 2 | 1 | - | 9 | - | 3 | - | 9 | - | - |
| State-colored Junco | - | - | - | 3 | - | 5 | - | - | 54 | 12 | - | 10 | - | - |
| Northern Cardinal | 49 | 204 | 9 | 61 | 184 | 29 | 162 | 87 | 13 | 147 | 207 | 14 | 16 | 4 |
| Rose-breasted Grosbeak | 7 | 56 | 19 | 2 | 15 | 26 | 23 | 44 | 38 | 27 | 10 | 4 | 12 | 11 |
| Blue Grosbeak | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Indigo Bunting | 13 | 23 | 2 | 21 | 20 | 13 | 7 | 11 | 9 | 26 | 8 | 10 | 9 | - |
| Bobolink | 17 | 5 | 8 | - | 73 | 3 | 18 | 116 | - | 4 | 48 | 8 | - | 19 |
| Red-winged Blackbird | 81 | 125 | 72 | 73 | 299 | 115 | 292 | 595 | 241 | 306 | 261 | 124 | 69 | 464 |
| Eastern Meadowlark | 27 | 7 | 11 | 8 | 14 | 12 | 7 | 37 | 2 | 22 | 12 | 12 | 5 | 14 |
| Yellow-headed Blackbird | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Rusty Blackbird | - | 1 | 4 | - | - | - | - | - | - | - | - | - | - | - |
| Common Grackle | 83 | 207 | 68 | 125 | 629 | 96 | 613 | 170 | 54 | 484 | 232 | 73 | 65 | 33 |
| Brown-headed Cowbird | 11 | 49 | 8 | 11 | 132 | 24 | 117 | 42 | 56 | 59 | 127 | 6 | 6 | 7 |
| Orchard Oriole | 2 | 4 | 1 | 3 | 7 | 3 | 7 | 13 | - | 4 | 11 | - | - | - |
| Baltimore Oriole | 23 | 62 | 22 | 37 | 103 | 37 | 81 | 39 | 36 | 87 | 99 | 10 | 9 | 14 |
| Purple Finch | 3 | - | 2 | 5 | 3 | 4 | - | 7 | 12 | 4 | 4 | 4 | 2 | - |
| House Finch | 73 | 53 | 9 | 22 | 173 | 9 | 95 | 34 | 2 | 86 | 54 | 11 | 12 | 1 |
| Red Crossbill | - | - | - | - | - | - | - | - | 4 | - | - | - | - | - |
| White-winged Crossbill | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - |

NORTH AMERICAN MIGRATION COUNT - MAY 9, 1998

| | ADAM | ALLE | BEAV | BEDF | BERK | BLAI | BUCK | BUTL | CAME | CENT | CHES | CLAR | CLEA | CRAW |
|----------------------------|-------|--------|-------|--------|--------|---------|--------|--------|--------|---------|--------|-------|--------|-------|
| Common Redpoll | 2 | - | - | 8 | - | - | - | 3 | - | - | - | - | - | - |
| Pine Siskin | 49 | 143 | 26 | 51 | 190 | 19 | 145 | 42 | 98 | 199 | 191 | 20 | 32 | 6 |
| American Goldfinch | - | - | 1 | 1 | - | 3 | - | 15 | 4 | 1 | - | - | 11 | - |
| Evening Grosbeak | 27 | 94 | 111 | 53 | 132 | 37 | 94 | 129 | 25 | 162 | 55 | 13 | 8 | 8 |
| House Sparrow | | | | | | | | | | | | | | |
| TOTAL SPECIES | 118 | 125 | 95 | 97 | 144 | 108 | 115 | 153 | 112 | 154 | 123 | 99 | 77 | 91 |
| TOTAL INDIVIDUALS | 2804 | 4106 | 1465 | 1670 | 8534 | 1940 | 8203 | 4768 | 2838 | 6870 | 7061 | 1506 | 1096 | 1260 |
| temperature (Fahrenheit) | 48-52 | 58-68 | 50-68 | 48-60 | 52-60 | 55-65 | -- | 50-68 | 49-57 | 55-66 | 45-60 | 46-70 | 53-70 | 45-75 |
| wind direction | NE | N | -- | -- | NE | NE | -- | E | -- | NE | NE | E | -- | -- |
| wind speed (mph) | -- | 3-13 | 0-10 | -- | 10-25 | 7-9 | light | 0-15 | 0 | 3-12 | 10-25 | 0-5 | 0-20 | light |
| per cent cloud cover | 100 | 20-100 | 25-75 | 20-90 | 100 | 60-100 | 100 | 20-50 | 90-100 | 100 | 100 | 0-20 | 80-100 | 0-100 |
| precipitation type | rain | trace | none | fog | rain | drizzle | rain | none | light | drizzle | none | none | mist | trace |
| Party Hours (Foot/Car) | 1/31 | 62/14 | 9/8 | 26/10 | 73/13 | 41/13 | 52/40 | 15/46 | 5/9 | 76/19 | 54/23 | 9/26 | 15/9 | 6/5 |
| Party Miles (Foot/Car) | 1/127 | 35/101 | 7/131 | 13/109 | 63/120 | 24/130 | 42/198 | 13/324 | 6/139 | 67/173 | 41/185 | 4/203 | 9/121 | 7/63 |
| Observers (Parties/Number) | 5/7 | 13/37 | 2/6 | 2/11 | 23/43 | 8/15 | 17/40 | 5/24 | 1/2 | 14/29 | 14/44 | 5/16 | 4/9 | 2/25 |

| | CUMB | DAUP | FAYE | FRAN | GREE | HUNT | INDI | JUNI | LACK | LANC | LAWR | LEHI | LUZE | LYCO |
|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Red-throated Loon | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Common Loon | 9 | 10 | - | 48 | - | 4 | 7 | 23 | 1 | 143 | 2 | 3 | 7 | 9 |
| Pied-billed Grebe | - | - | - | 5 | - | 2 | 1 | - | - | 1 | 6 | - | - | - |
| Horned Grebe | - | - | - | 6 | - | - | 1 | - | - | - | - | - | 1 | 4 |
| Double-crested Cormorant | 37 | 50 | - | 1 | - | 6 | 6 | 4 | 5 | 47 | 4 | 3 | 6 | 4 |
| American Bittern | - | - | - | - | - | 1 | - | - | - | - | - | - | 1 | - |
| Least Bittern | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - |
| Great Blue Heron | 3 | 8 | - | 12 | 61 | 12 | 5 | 3 | 34 | 33 | 64 | - | 8 | 1 |
| Great Egret | 8 | 10 | - | 3 | - | - | - | - | - | 2 | - | - | 1 | - |
| Snowy Egret | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| Little Blue Heron | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Tricolored Heron | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - |
| Cattle Egret | 1 | - | - | - | - | - | - | - | - | - | - | 1 | - | - |
| Green Heron | 4 | 6 | - | 16 | 2 | 1 | 2 | 5 | 7 | 2 | 3 | - | 1 | - |
| Black-crowned Night-Heron | 17 | 9 | - | - | - | - | - | - | - | 113 | - | - | - | - |
| Yellow-crowned Night-Heron | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Glossy Ibis | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - |
| Black Vulture | 14 | 17 | - | 10 | - | 2 | - | 39 | - | 40 | - | - | - | - |
| Turkey Vulture | 55 | 146 | - | 117 | 114 | 29 | 63 | 58 | 26 | 137 | 11 | 2 | 54 | 46 |
| Snow Goose | - | - | - | - | - | - | - | - | - | 128 | - | - | - | - |
| Canada Goose | 242 | 346 | - | 363 | 134 | 64 | 283 | 66 | 359 | 5336 | 282 | 30 | 327 | 55 |
| Mute Swan | 1 | - | - | - | - | 1 | - | - | 1 | 2 | 1 | - | - | - |
| Tundra Swan | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Wood Duck | 34 | 51 | - | 39 | 6 | 7 | 30 | 23 | 50 | 54 | 108 | - | 43 | 29 |
| Gadwall | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| American Wigeon | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| American Black Duck | - | 18 | - | - | 1 | - | - | - | - | 2 | - | - | - | - |
| Mallard | 114 | 164 | 24 | 198 | 32 | 32 | 98 | 70 | 105 | 164 | 70 | 12 | 133 | 27 |
| Blue-winged Teal | 6 | - | - | 4 | - | - | 2 | 1 | 1 | 1 | 3 | - | - | - |
| Northern Shoveler | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - |
| Green-winged Teal | 2 | - | - | - | - | - | - | - | - | 1 | - | - | - | - |
| Canvasback | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - |
| Redhead | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ring-necked Duck | 1 | - | - | - | - | - | 2 | - | - | - | - | - | - | - |
| Greater Scaup | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - |
| Lesser Scaup | 8 | 1 | - | - | - | - | - | - | - | - | - | - | - | 4 |
| Surf Scoter | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 |

NORTH AMERICAN MIGRATION COUNT - MAY 9, 1998

| | CUMB | DAUP | FAYE | FRAN | GREE | HUNT | INDI | JUNI | LACK | LANC | LAWR | LEHI | LUZE | LYCO |
|-------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Black Scoter | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| Oldsquaw | - | 3 | - | - | - | - | 1 | - | - | - | - | - | - | - |
| Bufflehead | 5 | - | - | - | - | 4 | - | - | - | - | - | 2 | 1 | 9 |
| Hooded Merganser | - | 3 | - | - | - | 5 | - | - | 1 | - | 1 | - | - | - |
| Common Merganser | 4 | 3 | - | 3 | - | - | - | 5 | 4 | - | - | - | 3 | 23 |
| Red-breasted Merganser | 2 | 5 | - | 5 | 2 | 12 | 3 | - | 4 | 2 | - | - | - | 3 |
| Ruddy Duck | 2 | 18 | - | 58 | - | 6 | 4 | - | - | 5 | - | - | - | - |
| Osprey | 6 | 1 | - | 4 | - | 7 | 1 | 2 | 7 | 11 | 2 | - | 6 | 5 |
| Bald Eagle | - | 4 | - | 2 | - | 1 | - | 1 | - | 8 | - | - | - | - |
| Northern Harrier | - | 2 | - | 2 | - | - | 1 | - | 2 | - | - | - | - | - |
| Sharp-shinned Hawk | - | 3 | - | 5 | - | 2 | 7 | 1 | 3 | 3 | 1 | - | 2 | - |
| Cooper's Hawk | 2 | 2 | - | 1 | 3 | 1 | 6 | 1 | 1 | 2 | 2 | - | 3 | - |
| Northern Goshawk | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Red-shouldered Hawk | - | 5 | - | 2 | - | 1 | 2 | 3 | 3 | - | - | - | - | - |
| Broad-winged Hawk | 2 | 4 | - | 4 | 7 | 3 | - | 15 | 2 | 3 | 1 | - | 5 | - |
| Red-tailed Hawk | 25 | 36 | 2 | 31 | 31 | 6 | 66 | 17 | 19 | 18 | 15 | 6 | 19 | 13 |
| Rough-legged Hawk | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Golden Eagle | - | - | 1 | 2 | - | - | - | - | - | - | - | - | - | - |
| American Kestrel | 25 | 24 | - | 17 | 3 | 6 | 21 | 15 | 5 | 9 | 8 | 1 | 9 | 2 |
| Merlin | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - |
| Peregrine Falcon | - | 1 | - | - | - | - | - | - | - | - | - | - | 2 | - |
| Ring-necked Pheasant | 2 | 15 | - | 13 | 2 | 3 | 14 | 4 | 5 | 6 | 5 | - | 1 | 1 |
| Ruffed Grouse | 1 | 3 | - | 4 | 4 | 8 | 19 | 6 | 6 | 1 | 1 | - | 7 | 6 |
| Wild Turkey | - | 23 | 15 | 10 | 60 | 8 | 54 | 3 | 21 | 1 | 6 | - | 16 | 1 |
| Northern Bobwhite | - | - | - | 1 | - | - | 7 | - | - | - | - | - | - | - |
| Virginia Rail | 1 | 1 | - | - | - | - | - | - | - | 1 | - | - | 2 | - |
| Sora | 1 | - | - | - | - | - | - | - | - | - | - | - | 6 | - |
| Common Moorhen | - | - | - | - | - | - | - | - | - | - | 5 | - | - | - |
| American Coot | 5 | 3 | - | 9 | - | 1 | 9 | 1 | 1 | 1 | 1 | - | - | 1 |
| Black-bellied Plover | - | - | - | 4 | - | - | - | - | - | - | - | - | - | - |
| Semipalmated Plover | - | 4 | - | - | - | - | - | - | - | 4 | - | - | - | - |
| Killdeer | 18 | 37 | 2 | 92 | 40 | 18 | 82 | 21 | 31 | 29 | - | 2 | 60 | 9 |
| Greater Yellowlegs | 4 | 4 | - | 4 | - | 3 | 1 | - | 1 | 3 | 8 | 1 | - | - |
| Lesser Yellowlegs | 6 | 10 | - | 22 | 1 | - | - | - | - | 6 | 2 | - | 3 | - |
| Solitary Sandpiper | 12 | 10 | - | 45 | 1 | 5 | 3 | 15 | 7 | 16 | 12 | 2 | 14 | - |
| Spotted Sandpiper | 27 | 27 | - | 129 | 4 | 8 | 13 | 16 | 14 | 39 | 10 | 1 | 15 | 15 |
| Upland Sandpiper | - | - | - | - | - | - | - | - | - | - | 5 | - | - | - |
| Semipalmated Sandpiper | - | - | - | - | - | - | - | - | - | 9 | - | - | - | - |
| Least Sandpiper | 8 | 5 | - | 57 | - | - | - | - | 6 | 68 | 1 | - | 3 | - |
| Pectoral Sandpiper | 15 | - | - | - | - | - | - | - | - | - | 4 | - | - | - |
| Dunlin | - | 2 | - | 2 | - | - | - | - | - | 1 | - | - | - | - |
| Short-billed Dowitcher | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Common Snipe | 2 | - | - | 2 | - | - | - | - | - | 2 | 1 | - | 1 | - |
| American Woodcock | 4 | 8 | - | 4 | 1 | 5 | 5 | 2 | 3 | 1 | 1 | - | 1 | - |
| Laughing Gull | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Bonaparte's Gull | - | 3 | - | - | - | - | 1 | - | - | 51 | - | - | - | - |
| Ring-billed Gull | 40 | 126 | - | 8 | - | 5 | 42 | 4 | 4 | 371 | - | - | - | - |
| Herring Gull | 1 | 1 | - | - | - | - | 2 | - | - | - | - | - | - | - |
| Great Black-backed Gull | 1 | 3 | - | - | - | - | - | - | - | 3 | - | - | - | - |
| Arctic Tern | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Common Tern | - | - | - | - | - | 7 | - | - | - | 2 | - | - | - | - |
| Forster's Tern | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Black Tern | - | - | - | - | - | - | - | - | - | 4 | - | - | - | - |
| Rock Dove | 35 | 123 | 16 | 403 | 42 | 21 | 87 | 253 | 87 | 143 | 99 | 20 | 81 | 40 |
| Mourning Dove | 131 | 219 | 13 | 419 | 163 | 47 | 526 | 87 | 165 | 124 | 69 | 20 | 189 | 67 |
| Black-billed Cuckoo | - | - | - | 2 | 2 | 1 | 2 | 1 | - | 1 | - | - | - | - |
| Yellow-billed Cuckoo | 1 | 1 | - | 1 | 13 | 3 | 1 | 3 | 1 | 2 | - | - | 1 | - |
| Barn Owl | 1 | - | - | 4 | - | - | - | 2 | - | - | - | - | - | - |

NORTH AMERICAN MIGRATION COUNT - MAY 9, 1998

| | CUMB | DAUP | FAYE | FRAN | GREE | HUNT | INDI | JUNI | LACK | LANC | LAWR | LEHI | LUZE | LYCO |
|-------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Eastern Screech-Owl | 2 | - | - | 3 | - | 1 | - | - | - | 1 | 1 | - | 1 | 1 |
| Great Horned Owl | 1 | - | - | 4 | - | - | 2 | 2 | - | 2 | - | - | 2 | 1 |
| Northern Saw-whet Owl | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Barred Owl | - | 1 | - | 5 | 2 | 1 | 2 | - | 1 | 1 | - | - | 2 | - |
| Common Nighthawk | - | - | - | 3 | - | 1 | - | - | - | 2 | - | - | - | - |
| Whip-poor-will | 3 | 1 | - | 1 | 1 | 5 | 10 | 2 | - | - | - | - | 4 | - |
| Chimney Swift | 307 | 54 | 7 | 188 | 109 | 17 | 244 | 77 | 14 | 173 | 143 | 2 | 138 | 6 |
| Ruby-throated Hummingbird | 1 | 12 | 2 | 35 | 20 | 9 | 25 | 4 | 1 | 6 | 2 | - | 2 | 2 |
| Belted Kingfisher | 5 | 6 | - | 21 | 4 | 16 | 16 | 14 | 10 | 16 | 8 | 1 | 8 | 6 |
| Red-headed Woodpecker | 2 | 47 | 2 | 16 | 1 | - | - | - | - | 4 | 1 | - | - | - |
| Red-bellied Woodpecker | 24 | 47 | 2 | 104 | 29 | 24 | 49 | 20 | 2 | 49 | 11 | 6 | 8 | 9 |
| Yellow-bellied Sapsucker | - | - | - | - | - | - | 1 | - | - | - | - | - | 1 | 5 |
| Downy Woodpecker | 17 | 28 | 3 | 73 | 31 | 22 | 51 | 27 | 16 | 26 | 12 | 3 | 33 | 10 |
| Hairy Woodpecker | 4 | 3 | - | 13 | 7 | 8 | 15 | 4 | 6 | 3 | 3 | 2 | 7 | 5 |
| Northern Flicker | 18 | 45 | 2 | 83 | 33 | 28 | 90 | 27 | 3 | 44 | 8 | 3 | 43 | 22 |
| Pileated Woodpecker | 4 | 16 | - | 20 | 13 | 9 | 30 | 12 | 3 | 6 | 4 | - | 5 | 3 |
| Eastern Wood-Pewee | 3 | 1 | 2 | 6 | 8 | 2 | 2 | - | 3 | 1 | - | 1 | - | - |
| Acadian Flycatcher | 2 | 4 | - | 3 | 7 | 2 | - | 3 | - | 4 | - | - | 1 | - |
| Alder Flycatcher | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Willow Flycatcher | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Least Flycatcher | 1 | - | - | 2 | - | 2 | 20 | - | 21 | 1 | - | - | 16 | 17 |
| Eastern Phoebe | 35 | 61 | 3 | 72 | 72 | 35 | 101 | 35 | 41 | 25 | 12 | 4 | 47 | 30 |
| Great-Crested Flycatcher | 21 | 20 | 1 | 51 | 4 | 22 | 11 | 22 | 6 | 15 | 1 | 2 | 23 | 12 |
| Eastern Kingbird | 15 | 25 | - | 82 | 28 | 3 | 19 | 15 | 26 | 35 | 2 | 2 | 12 | 6 |
| Loggerhead Shrike | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - |
| White-eyed Vireo | 10 | 2 | - | 4 | 22 | - | 11 | - | - | 15 | 7 | - | - | - |
| Blue-headed Vireo | 6 | 4 | 1 | 8 | - | 17 | 39 | 2 | 2 | 1 | - | - | 17 | 8 |
| Yellow-throated Vireo | - | 7 | - | 4 | 14 | 2 | 10 | 2 | 11 | 6 | - | - | 5 | 1 |
| Warbling Vireo | 3 | 6 | - | 8 | 4 | 2 | 4 | 3 | 20 | 13 | 22 | 5 | 6 | - |
| Philadelphia Vireo | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Red-eyed Vireo | 59 | 58 | 16 | 121 | 86 | 69 | 67 | 46 | 18 | 53 | 17 | 20 | 21 | 11 |
| Blue Jay | 129 | 137 | 19 | 324 | 128 | 154 | 544 | 136 | 121 | 153 | 40 | 25 | 112 | 46 |
| American Crow | 126 | 341 | 16 | 373 | 187 | 121 | 715 | 177 | 304 | 159 | 53 | 20 | 409 | 167 |
| Fish Crow | 16 | 17 | - | 18 | - | 3 | - | 5 | 1 | 85 | - | 3 | 5 | - |
| Common Raven | 3 | 1 | - | 1 | 2 | 3 | 1 | 4 | - | - | - | - | 5 | 5 |
| Horned Lark | 10 | 9 | - | 13 | - | 2 | 14 | - | - | 32 | - | - | 12 | 2 |
| Purple Martin | 156 | - | - | 79 | 12 | - | - | 141 | - | 84 | 38 | 4 | 9 | 6 |
| Tree Swallow | 51 | 224 | 2 | 242 | 26 | 70 | 133 | 127 | 553 | 480 | 29 | 6 | 347 | 88 |
| Northern Rough-winged Swallow | 38 | 71 | - | 47 | 27 | 6 | 39 | 20 | 37 | 71 | 17 | 20 | 54 | 20 |
| Bank Swallow | 5 | 200 | - | 9 | - | 7 | - | 4 | 7 | 419 | 4 | 30 | 246 | 37 |
| Cliff Swallow | 2 | 18 | - | 2 | - | 26 | 6 | 8 | 1 | 4 | - | - | 90 | 27 |
| Barn Swallow | 150 | 136 | 37 | 452 | 180 | 108 | 391 | 157 | 268 | 247 | 59 | - | 445 | 64 |
| Carolina Chickadee | 19 | 22 | 31 | 22 | 71 | - | - | - | - | 61 | - | - | - | - |
| Black-capped Chickadee | 11 | 37 | 9 | 66 | - | 60 | 200 | 31 | 115 | 20 | 22 | 6 | 117 | 21 |
| Tufted Titmouse | 79 | 108 | 32 | 181 | 113 | 52 | 168 | 64 | 47 | 69 | 37 | 30 | 92 | 20 |
| Red-breasted Nuthatch | 2 | 1 | - | 3 | - | 8 | 9 | - | - | - | 1 | - | - | 4 |
| White-breasted Nuthatch | 18 | 16 | 12 | 51 | 39 | 22 | 75 | 20 | 13 | 6 | 20 | 2 | 36 | 11 |
| Brown Creeper | - | - | - | - | 2 | 2 | - | 1 | 5 | - | - | - | 5 | 4 |
| Carolina Wren | 18 | 26 | 6 | 33 | 35 | 5 | 13 | 17 | 1 | 35 | 3 | 3 | 5 | 4 |
| House Wren | 77 | 45 | 5 | 125 | 44 | 40 | 101 | 31 | 50 | 68 | 22 | 6 | 89 | 16 |
| Winter Wren | - | - | - | 2 | - | 3 | - | - | 3 | - | - | - | - | - |
| Marsh Wren | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Golden-crowned Kinglet | - | - | - | 2 | - | - | 7 | - | 2 | 1 | - | - | - | - |
| Ruby-crowned Kinglet | 10 | 3 | - | 6 | - | 5 | 12 | 7 | 1 | 7 | 3 | - | 1 | - |
| Blue-gray Gnatcatcher | 41 | 38 | 2 | 64 | 28 | 38 | 84 | 40 | 7 | 39 | 17 | 6 | 63 | 12 |
| Eastern Bluebird | 48 | 113 | 5 | 181 | 66 | 27 | 84 | 73 | 22 | 53 | 31 | 2 | 32 | 39 |
| Veery | 6 | 6 | 5 | 7 | 1 | 1 | 4 | 3 | 19 | 8 | - | 2 | 14 | 1 |
| Swainson's Thrush | 1 | - | - | 2 | - | 1 | - | 1 | - | - | - | - | - | - |

NORTH AMERICAN MIGRATION COUNT - MAY 9, 1998

| | CUMB | DAUP | FAYE | FRAN | GREE | HUNT | INDI | JUNI | LACK | LANC | LAWR | LEHI | LUZE | LYCO |
|----------------------------|--------|--------|-------|--------|-------|--------|--------|--------|--------|--------|--------|-------|--------|--------|
| Swamp Sparrow | 3 | - | - | 2 | - | 4 | 3 | 7 | 13 | 8 | 24 | - | 29 | - |
| White-throated Sparrow | 75 | 30 | - | 42 | 10 | 24 | 88 | 37 | 8 | 51 | 6 | 2 | 5 | 4 |
| White-crowned Sparrow | 5 | 1 | - | 52 | 11 | 4 | 22 | 2 | 4 | 2 | 4 | - | 2 | - |
| Slate-colored Junco | - | 2 | - | 2 | - | 17 | 3 | 1 | 7 | - | - | - | 2 | 18 |
| Northern Cardinal | 92 | 153 | 18 | 235 | 161 | 62 | 341 | 211 | 95 | 161 | 48 | 25 | 118 | 34 |
| Rose-breasted Grosbeak | 18 | 16 | - | 15 | 32 | 16 | 108 | 1 | 27 | 16 | 22 | 5 | 31 | 26 |
| Blue Grosbeak | - | - | - | 2 | - | - | - | - | - | 3 | - | - | - | - |
| Indigo Bunting | 29 | 71 | 2 | 99 | 70 | 16 | 130 | 42 | 8 | 53 | 4 | - | 34 | 6 |
| Bobolink | 13 | 31 | - | 75 | - | 9 | 26 | 10 | 146 | 31 | 111 | 25 | 54 | 4 |
| Red-winged Blackbird | 228 | 377 | 76 | 480 | 406 | 172 | 1283 | 169 | 535 | 237 | 258 | 30 | 495 | 109 |
| Eastern Meadowlark | 30 | 31 | 2 | 72 | 40 | 9 | 115 | 22 | 23 | 7 | 55 | 15 | 49 | 1 |
| Yellow-headed Blackbird | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - |
| Rusty Blackbird | - | - | - | 3 | - | - | - | - | - | - | - | - | - | - |
| Common Grackle | 580 | 804 | 22 | 1167 | 169 | 188 | 867 | 321 | 206 | 510 | 220 | 70 | 548 | 170 |
| Brown-headed Cowbird | 66 | 92 | - | 144 | 161 | 66 | 198 | 90 | 79 | 156 | 30 | 20 | 152 | 37 |
| Orchard Oriole | 7 | 5 | - | 7 | 26 | 3 | 10 | 4 | 1 | 12 | - | - | 3 | - |
| Baltimore Oriole | 46 | 109 | 2 | 143 | 128 | 59 | 141 | 69 | 103 | 64 | 26 | 6 | 72 | 27 |
| Purple Finch | - | 2 | - | 31 | 1 | 17 | 23 | 14 | 24 | 19 | 6 | - | 2 | 1 |
| House Finch | 67 | 108 | 25 | 255 | 56 | 17 | 169 | 59 | 63 | 104 | 56 | 10 | 72 | 27 |
| Red Crossbill | - | - | - | - | - | - | 7 | - | - | - | - | - | - | - |
| White-winged Crossbill | - | - | - | - | - | - | - | 37 | - | - | - | - | - | - |
| Common Redpoll | - | - | - | - | - | 14 | - | - | - | - | - | - | - | - |
| Pine Siskin | - | 3 | - | 3 | 9 | 4 | 6 | - | - | - | - | - | 2 | 17 |
| American Goldfinch | 152 | 219 | 32 | 275 | 94 | 139 | 329 | 117 | 111 | 309 | 139 | 12 | 161 | 71 |
| Evening Grosbeak | - | - | - | - | 3 | 15 | - | - | - | - | - | - | - | 4 |
| House Sparrow | 133 | 112 | 22 | 517 | 143 | 23 | 290 | 158 | 70 | 170 | 169 | 20 | 228 | 49 |
| TOTAL SPECIES | 158 | 152 | 53 | 166 | 108 | 149 | 146 | 123 | 126 | 161 | 115 | 80 | 137 | 111 |
| TOTAL INDIVIDUALS | 6399 | 8536 | 603 | 13274 | 5976 | 4214 | 15820 | 4847 | 6109 | 14454 | 3657 | 850 | 9266 | 2493 |
| temperature (Fahrenheit) | 50-65 | 58-67 | 68-73 | 55-69 | 60-72 | 57-72 | 57-79 | 57-69 | 50-60 | 50-65 | 52-70 | 50-60 | 55-66 | 56-66 |
| wind direction | -- | -- | -- | -- | -- | -- | E | NW | -- | NE | N | N | E | -- |
| wind speed (mph) | light | light | light | 5-10 | 0-2 | 1-20 | 1-12 | 1-8 | windy | 0-10 | 5-10 | -- | 10-15 | 0-8 |
| per cent cloud cover | 100 | 100 | 100 | 60-100 | 20 | 90-100 | 100 | 90-100 | 100 | 100 | 50-100 | 100 | 90-100 | 60-80 |
| precipitation type | rain | rain | none | rain | none | none | none | light | rain | rain | rain | rain | rain | rain |
| Party Hours (Foot/Car) | 44/17 | 70/30 | 3/6 | 81/71 | 11/43 | 42/15 | 82/66 | 19/10 | 30/49 | 65/18 | 7/37 | 5/3 | 43/39 | 29/18 |
| Party Miles (Foot/Car) | 22/422 | 53/311 | 2/65 | 61/614 | 6/328 | 36/274 | 66/777 | 14/153 | 34/517 | 35/213 | 9/194 | 10/80 | 33/579 | 18/363 |
| Observers (Parties/Number) | 7/16 | 14/35 | 1/3 | 22/56 | 6/23 | 7/10 | 21/55 | 4/11 | 8/21 | 12/37 | 3/5 | 1/2 | 12/23 | 8/17 |

| | MERC | MIFF | MONT | NORT | PERR | PHIL | POTT | SCHU | SULL | TIOG | VENA | WAYN | WEST | WYOM | YORK |
|----------------------------|------|------|------|------|------|------|------|-------|------|------|------|------|------|------|------|
| Red-throated Loon | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Common Loon | 4 | - | - | - | 3 | 2 | - | 13 | 4 | - | 10 | - | 6 | - | 4 |
| Pied-billed Grebe | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - |
| Horned Grebe | - | - | - | - | - | 66 | - | 13 | 2 | - | 5 | - | 19 | - | 1 |
| Double-crested Cormorant | 14 | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - |
| American Bittern | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| Least Bittern | - | - | - | - | - | 1 | - | 19/10 | - | - | - | - | - | - | - |
| Great Blue Heron | 10 | 1 | 2 | - | - | 9 | 3 | 23 | 3 | 27 | 7 | 12 | 12 | 10 | 1 |
| Great Egret | - | - | - | - | 1 | 2 | - | 1 | - | - | - | - | - | - | 2 |
| Snowy Egret | - | - | - | - | - | 4 | - | 1 | - | - | - | - | - | - | - |
| Little Blue Heron | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Tricolored Heron | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cattle Egret | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Green Heron | 1 | - | - | 1 | 3 | 3 | 4 | 5 | - | - | 1 | - | 4 | 2 | - |
| Black-crowned Night-Heron | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Yellow-crowned Night-Heron | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

NORTH AMERICAN MIGRATION COUNT - MAY 9, 1998

| | MERC | MIFF | MONT | NORT | PERR | PHIL | POTT | SCHU | SULL | TIOG | VENA | WAYN | WEST | WYOM | YORK |
|---------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Semipalmated Sandpiper | - | - | - | - | - | 10 | - | - | - | - | - | - | - | - | - |
| Least Sandpiper | 2 | - | 9 | - | - | 6 | 3 | - | - | - | 11 | - | 4 | - | - |
| Pectoral Sandpiper | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Dunlin | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Short-billed Dowitcher | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Common Snipe | - | - | - | - | - | 1 | - | 6 | - | - | - | - | 2 | - | - |
| American Woodcock | 4 | - | - | - | - | 1 | - | 1 | 1 | 3 | - | 1 | 2 | - | - |
| Laughing Gull | - | - | - | - | - | 32 | - | - | - | - | - | - | - | - | - |
| Bonaparte's Gull | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ring-billed Gull | - | - | - | - | - | 680 | - | 2 | - | - | 8 | 1 | 4 | - | - |
| Herring Gull | - | 2 | - | - | - | 10 | - | 2 | - | - | - | - | - | - | - |
| Great Black-backed Gull | - | - | - | - | - | 8 | - | - | - | - | - | - | - | - | - |
| Arctic Tern | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Common Tern | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Forster's Tern | - | - | - | - | - | 12 | - | - | - | - | - | - | - | - | - |
| Black Tern | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Rock Dove | 39 | 133 | 54 | 5 | - | 333 | 102 | 272 | 19 | 67 | 110 | 12 | 30 | 230 | - |
| Mourning Dove | 66 | 51 | 37 | 9 | - | 123 | 100 | 347 | 60 | 22 | 78 | 99 | 235 | 51 | 4 |
| Black-billed Cuckoo | - | 2 | - | 1 | - | - | - | 2 | - | - | - | - | 3 | - | - |
| Yellow-billed Cuckoo | - | 5 | 1 | - | - | - | 1 | 1 | - | - | - | - | 10 | 2 | - |
| Barn Owl | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Eastern Screech-Owl | - | 1 | - | - | - | 1 | - | 5 | - | - | - | - | 7 | - | - |
| Great Horned Owl | - | 1 | - | 2 | - | - | - | 3 | - | - | 1 | - | 1 | - | - |
| Northern Saw-whet Owl | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Barred Owl | 2 | - | 1 | - | - | - | - | - | - | - | - | - | 3 | 1 | - |
| Common Nighthawk | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - |
| Whip-poor-will | - | 2 | - | - | - | - | - | 2 | - | - | - | - | - | - | - |
| Chimney Swift | 33 | 59 | 4 | - | 2 | 127 | 2 | 35 | 2 | 5 | 160 | 14 | 135 | 13 | - |
| Ruby-throated Hummingbird | 3 | 11 | 1 | 6 | 1 | 4 | 4 | 21 | 6 | 7 | 2 | 1 | 11 | 1 | - |
| Belted Kingfisher | 3 | 2 | 2 | 1 | 3 | 1 | 15 | 20 | 3 | 2 | 4 | 5 | 12 | 7 | 1 |
| Red-headed Woodpecker | - | 4 | - | - | - | - | - | 3 | - | - | - | - | - | - | - |
| Red-bellied Woodpecker | 16 | 22 | 14 | 4 | 1 | 32 | - | 23 | 1 | 2 | 1 | - | 77 | 7 | - |
| Yellow-bellied Sapsucker | - | - | - | - | - | - | - | 15 | 8 | - | 1 | 6 | - | 4 | - |
| Downy Woodpecker | 9 | 26 | 8 | 3 | 2 | 24 | 10 | 44 | 15 | 10 | 3 | 14 | 42 | 8 | - |
| Hairy Woodpecker | 6 | 8 | 2 | - | - | 2 | 3 | 13 | 12 | 7 | 2 | 14 | 17 | 3 | 1 |
| Northern Flicker | 10 | 50 | 12 | 6 | 1 | 49 | 20 | 42 | 14 | 3 | 11 | 12 | 60 | 10 | 2 |
| Pileated Woodpecker | 2 | 3 | - | - | 2 | - | 2 | 16 | 1 | 1 | 3 | 8 | 20 | 4 | - |
| Eastern Wood-Pewee | - | 3 | - | - | - | 2 | - | - | - | 2 | - | 9 | 1 | 2 | - |
| Acadian Flycatcher | - | 2 | 1 | - | - | - | - | - | - | - | - | - | 12 | - | - |
| Alder Flycatcher | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Willow Flycatcher | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Least Flycatcher | 11 | - | - | - | - | - | 10 | 3 | 2 | - | 1 | 21 | 12 | 7 | - |
| Eastern Phoebe | 14 | 24 | 4 | 1 | 5 | 12 | 33 | 47 | 22 | 7 | 28 | 29 | 47 | 22 | 2 |
| Great Crested Flycatcher | 4 | 47 | 8 | 2 | - | 6 | 2 | 21 | - | - | 2 | 4 | 16 | 4 | - |
| Eastern Kingbird | 12 | 4 | 1 | - | 1 | 22 | 10 | 10 | 3 | 6 | 5 | 27 | 18 | 7 | - |
| Loggerhead Shrike | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| White-eyed Vireo | - | 4 | 1 | - | - | 13 | - | 2 | - | - | - | - | 29 | - | - |
| Blue-headed Vireo | 4 | 6 | 2 | 1 | - | 4 | 16 | 27 | 6 | - | 2 | 7 | 11 | 2 | - |
| Yellow-throated Vireo | 11 | - | 1 | - | - | 1 | - | 3 | - | - | 2 | 1 | 9 | 4 | - |
| Warbling Vireo | 10 | 4 | 6 | - | - | 12 | - | 3 | - | - | 1 | 3 | 13 | 10 | - |
| Philadelphia Vireo | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Red-eyed Vireo | 10 | 44 | 28 | 5 | 4 | 55 | 9 | 60 | 3 | 1 | 6 | 12 | 87 | 3 | 3 |
| Blue Jay | 48 | 41 | 15 | 12 | 15 | 60 | 104 | 243 | 65 | 17 | 73 | 60 | 215 | 20 | 2 |
| American Crow | 51 | 118 | 35 | 8 | 14 | 189 | 177 | 448 | 89 | 47 | 86 | 298 | 229 | 77 | 3 |
| Fish Crow | - | - | - | - | 1 | 3 | - | 4 | - | - | - | - | 1 | - | - |
| Common Raven | - | 2 | - | - | - | - | 7 | 5 | 5 | 1 | 4 | 1 | 3 | 4 | - |
| Horned Lark | 1 | - | - | - | - | - | 3 | - | - | - | 2 | - | - | 1 | - |
| Purple Martin | 71 | 203 | - | - | - | - | - | 34 | - | - | - | 2 | 5 | 2 | - |

NORTH AMERICAN MIGRATION COUNT - MAY 9, 1998

| | MERC | MIFF | MONT | NORT | PERR | PHIL | POTT | SCHU | SULL | TIOG | VENA | WAYN | WEST | WYOM | YORK |
|-------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Tree Swallow | 73 | 12 | 36 | 6 | 7 | 416 | 248 | 202 | 97 | 17 | 92 | 269 | 90 | 111 | 1 |
| Northern Rough-winged Swallow | 8 | 3 | 18 | 4 | 2 | 71 | 4 | 53 | 5 | 7 | 13 | 58 | 33 | 4 | 50 |
| Bank Swallow | 3 | - | 1 | - | - | 2 | 12 | 12 | - | - | - | 3 | 2 | 2 | - |
| Cliff Swallow | 2 | 9 | - | - | - | - | 87 | 12 | 2 | 8 | 15 | 12 | 10 | - | - |
| Barn Swallow | 58 | 414 | 17 | - | - | 120 | 106 | 319 | 144 | 87 | 26 | 173 | 178 | 71 | - |
| Carolina Chickadee | - | - | 25 | - | - | 71 | - | - | - | - | - | - | 13 | - | - |
| Black-capped Chickadee | 22 | 25 | - | 10 | 5 | - | 55 | 152 | 65 | 15 | 7 | 72 | 58 | 49 | - |
| Tufted Titmouse | 28 | 66 | 25 | 9 | 5 | 64 | 7 | 126 | 22 | 7 | 4 | 27 | 141 | 26 | 1 |
| Red-breasted Nuthatch | 1 | 2 | - | - | - | - | 2 | 9 | 8 | 3 | 1 | 3 | 5 | - | - |
| White-breasted Nuthatch | 7 | 34 | 1 | 3 | - | 7 | 7 | 34 | 10 | 7 | 6 | 17 | 33 | 4 | - |
| Brown Creeper | - | 1 | - | - | - | - | 5 | 8 | 1 | 1 | - | 4 | 4 | 7 | - |
| Carolina Wren | 5 | 15 | 6 | 1 | 1 | 23 | - | 14 | - | - | 1 | 2 | 43 | 3 | - |
| House Wren | 34 | 41 | 6 | 16 | 3 | 113 | 32 | 61 | 12 | 12 | 2 | 45 | 55 | 13 | - |
| Winter Wren | - | - | - | - | - | - | 3 | - | 1 | - | - | 3 | 4 | - | - |
| Marsh Wren | 2 | - | - | - | - | 8 | - | - | - | 1 | - | - | - | - | - |
| Golden-crowned Kinglet | - | 2 | - | - | - | - | - | 10 | - | - | - | - | 3 | - | - |
| Ruby-crowned Kinglet | 6 | - | - | - | - | 1 | 1 | 18 | - | - | 5 | - | 9 | - | - |
| Blue-gray Gnatcatcher | 2 | 18 | 19 | 5 | 22 | 37 | 9 | 84 | 3 | 1 | 11 | 4 | 75 | 12 | - |
| Eastern Bluebird | 30 | 36 | 4 | 5 | 5 | 7 | 9 | 65 | 19 | 8 | 9 | 34 | 84 | 11 | - |
| Veery | 3 | 1 | - | 2 | - | 13 | - | 32 | - | - | 3 | 10 | 1 | 24 | - |
| Swainson's Thrush | 1 | - | - | - | - | - | - | 1 | - | - | - | - | 1 | - | - |
| Hermit Thrush | 1 | 2 | - | - | - | 3 | 10 | 16 | 6 | 1 | 1 | 8 | 1 | 4 | - |
| Wood Thrush | 52 | 39 | 41 | 17 | 2 | 80 | 25 | 161 | 8 | 3 | 9 | 5 | 169 | 39 | 6 |
| American Robin | 91 | 346 | 90 | 37 | 4 | 452 | 346 | 656 | 265 | 35 | 84 | 183 | 664 | 208 | 9 |
| Gray Catbird | 28 | 17 | 14 | 25 | 10 | 249 | 12 | 219 | 14 | 6 | 16 | 79 | 129 | 45 | 6 |
| Northern Mockingbird | 1 | 10 | 5 | - | - | 24 | - | 13 | 1 | - | 1 | 1 | 21 | - | 3 |
| Brown Thrasher | 12 | 3 | - | 2 | 2 | 16 | 3 | 6 | 3 | 1 | 1 | 6 | 14 | 3 | - |
| European Starling | 120 | 191 | 96 | 8 | 2 | 366 | 220 | 801 | 67 | 45 | 82 | 157 | 525 | 65 | - |
| American Pipit | 19 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cedar Waxwing | - | - | - | - | - | - | - | 3 | - | 5 | 5 | 10 | 15 | 3 | 7 |
| Blue-winged Warbler | 31 | 3 | 5 | 1 | 6 | 4 | 1 | 27 | 1 | - | 12 | 1 | 47 | 3 | 1 |
| Golden-winged Warbler | - | 1 | - | - | 1 | - | - | - | - | - | - | - | 1 | - | - |
| Tennessee Warbler | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Orange-crowned Warbler | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Nashville Warbler | 16 | - | - | - | 1 | - | - | 3 | - | - | 2 | - | 11 | - | - |
| Northern Parula | - | - | 7 | 1 | - | 19 | - | 103 | - | - | 2 | 1 | 7 | - | - |
| Yellow Warbler | 69 | 21 | 11 | 4 | 4 | 106 | 19 | 40 | 10 | 1 | 28 | 86 | 161 | 72 | 12 |
| Chestnut-sided Warbler | 8 | 12 | 2 | 5 | 1 | 2 | 10 | 19 | 8 | - | 17 | 9 | 19 | 14 | - |
| Magnolia Warbler | 1 | 1 | - | - | - | 1 | 2 | 3 | 1 | - | 2 | 9 | 12 | 1 | - |
| Cape May Warbler | - | - | - | - | - | - | - | 3 | - | - | 1 | 2 | 2 | - | - |
| Black-throated Blue Warbler | 4 | 3 | 7 | - | 1 | 22 | 1 | 15 | 2 | - | 2 | 4 | 11 | 1 | 1 |
| Myrtle Warbler | 53 | 8 | 40 | 26 | 22 | 108 | 14 | 221 | 8 | - | 5 | 13 | 45 | 6 | 7 |
| Black-throated Green Warbler | 5 | 4 | 7 | - | - | 10 | 50 | 141 | 10 | - | 8 | 24 | 35 | 15 | - |
| Blackburnian Warbler | - | 4 | - | - | - | - | 28 | 16 | 3 | - | 3 | 2 | 5 | 2 | - |
| Yellow-throated Warbler | - | - | - | - | - | - | - | 14 | - | - | 3 | - | 5 | - | - |
| Pine Warbler | - | - | - | - | - | - | - | 14 | - | - | - | 2 | 3 | 3 | - |
| Prairie Warbler | - | 2 | 2 | - | 3 | 8 | 3 | 34 | 2 | - | 2 | 1 | 8 | 2 | - |
| Palm Warbler | 3 | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - |
| Bay-breasted Warbler | - | - | - | - | - | - | - | - | - | - | - | 2 | 1 | 1 | - |
| Blackpoll Warbler | - | - | - | - | - | 15 | - | - | - | - | - | 2 | 1 | - | - |
| Cerulean Warbler | - | 3 | - | - | - | - | - | 1 | - | - | 16 | 1 | 29 | - | - |
| Black-and-white Warbler | 4 | 10 | 5 | 8 | - | 33 | 5 | 86 | 12 | 1 | 3 | - | 19 | 8 | - |
| American Redstart | 16 | 5 | - | 2 | - | 30 | 8 | 30 | 10 | 1 | 6 | 28 | 102 | 64 | 4 |
| Prothonotary Warbler | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - |
| Worm-eating Warbler | - | 20 | 3 | 5 | - | - | - | 34 | - | - | - | 1 | - | 1 | - |
| Swainson's Warbler | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - |
| Ovenbird | 15 | 51 | 13 | 17 | 2 | 22 | 93 | 356 | 32 | 2 | 22 | 75 | 91 | 97 | 6 |
| Northern Waterthrush | - | 2 | 1 | 2 | - | 20 | - | 5 | - | - | - | - | 4 | 5 | - |

NORTH AMERICAN MIGRATION COUNT - MAY 9, 1998

| | MERC | MIFF | MONT | NORT | PERR | PHIL | POTT | SCHU | SULL | TIOG | VENA | WAYN | WEST | WYOM | YORK |
|----------------------------|--------|--------|-------|-------|---------|--------|--------|--------|---------|-------|--------|----------|--------|--------|--------|
| Louisiana Waterthrush | 1 | - | 5 | - | - | 4 | - | 5 | 1 | - | 5 | - | 21 | - | - |
| Kentucky Warbler | 1 | - | 3 | - | - | 2 | - | 1 | - | - | - | - | 16 | 5 | - |
| Connecticut Warbler | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Mourning Warbler | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Common Yellowthroat | 88 | 29 | 12 | 13 | 17 | 103 | 39 | 251 | 30 | 10 | 22 | 43 | 216 | 65 | 6 |
| Hooded Warbler | 10 | - | - | - | - | - | - | 28 | - | - | 9 | - | 32 | - | - |
| Canada Warbler | - | - | - | - | - | - | - | 1 | - | - | - | 2 | 1 | 2 | - |
| Wilson's Warbler | - | - | - | - | - | - | - | - | - | - | - | 2 | 1 | - | - |
| Yellow-breasted Chat | 1 | 5 | - | - | - | - | - | - | - | - | - | - | 25 | - | - |
| Summer Tanager | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Scarlet Tanager | 16 | 39 | 20 | 5 | 2 | 7 | 10 | 61 | 1 | 2 | 10 | 18 | 69 | 11 | 1 |
| Eastern Towhee | 39 | 30 | 20 | 9 | 10 | 39 | 35 | 189 | 15 | 1 | 31 | 41 | 212 | 8 | 1 |
| Chipping Sparrow | 47 | 105 | 7 | 2 | 1 | 12 | 96 | 248 | 69 | 19 | 54 | 135 | 243 | 121 | 2 |
| Field Sparrow | 41 | 18 | 8 | 8 | 13 | 1 | 8 | 107 | 22 | - | 5 | 21 | 99 | 11 | - |
| Vesper Sparrow | - | - | - | - | - | - | 3 | - | - | - | - | - | 1 | 1 | - |
| Savannah Sparrow | 24 | 2 | - | - | - | 2 | 22 | 2 | 4 | - | 11 | - | 25 | 6 | - |
| Grasshopper Sparrow | 1 | 6 | - | - | - | - | - | - | 1 | - | 3 | - | 16 | 3 | - |
| Henslow's Sparrow | 7 | - | - | - | - | - | - | - | - | - | 12 | - | - | 3 | - |
| Fox Sparrow | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Song Sparrow | 62 | 130 | 25 | 7 | 9 | 112 | 99 | 130 | 23 | 11 | 20 | 102 | 235 | 113 | 4 |
| Lincoln's Sparrow | 1 | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - |
| Swamp Sparrow | 19 | - | - | 2 | - | 25 | 23 | 2 | 4 | 30 | 6 | 6 | 4 | 4 | - |
| White-throated Sparrow | 29 | 4 | 13 | 3 | 4 | 47 | 2 | 23 | 16 | 2 | 1 | 3 | 22 | - | - |
| White-crowned Sparrow | 1 | 1 | - | - | - | 1 | - | 3 | 1 | - | 2 | - | 20 | 1 | - |
| Slate-colored Junco | - | 6 | - | - | - | - | 22 | 12 | 56 | 15 | 3 | 25 | 11 | 7 | - |
| Northern Cardinal | 50 | 55 | 37 | 18 | 9 | 102 | 19 | 167 | 23 | 9 | 17 | 47 | 255 | 66 | 11 |
| Rose-breasted Grosbeak | 40 | 26 | 4 | 7 | - | 5 | 45 | 43 | 30 | 7 | 12 | 13 | 107 | 15 | - |
| Blue Grosbeak | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Indigo Bunting | 7 | 27 | 3 | 2 | 6 | 4 | 8 | 51 | 7 | 6 | 8 | 9 | 89 | 11 | - |
| Bobolink | 17 | 5 | - | - | - | 18 | 98 | 24 | 17 | 17 | 40 | 35 | 58 | 36 | - |
| Red-winged Blackbird | 210 | 142 | 9 | 1 | 2 | 416 | 638 | 514 | 132 | 127 | 127 | 487 | 501 | 223 | 15 |
| Eastern Meadowlark | 18 | 18 | - | - | - | 25 | 29 | 13 | 7 | 13 | 33 | 6 | 71 | 8 | - |
| Yellow-headed Blackbird | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| Rusty Blackbird | - | - | - | - | - | 2 | - | 2 | - | - | - | - | - | - | - |
| Common Grackle | 117 | 302 | 32 | 4 | 5 | 111 | 144 | 426 | 67 | 63 | 81 | 56 | 423 | 100 | 1 |
| Brown-headed Cowbird | 41 | 41 | 28 | 12 | 3 | 47 | 69 | 163 | 36 | 17 | 10 | 33 | 124 | 26 | 2 |
| Orchard Oriole | 8 | - | 4 | 2 | - | 10 | - | 1 | - | - | - | - | 26 | - | - |
| Baltimore Oriole | 42 | 76 | 37 | 16 | 8 | 94 | 16 | 145 | 10 | 2 | 17 | 59 | 134 | 37 | - |
| Purple Finch | 8 | 3 | - | - | - | - | 13 | 32 | 26 | 14 | 3 | 11 | 10 | 1 | 1 |
| House Finch | 16 | 76 | 34 | 6 | - | 83 | 4 | 85 | 6 | 2 | 11 | 16 | 148 | 13 | 1 |
| Red Crossbill | - | - | - | - | - | - | - | 1 | - | - | - | - | 8 | - | - |
| White-winged Crossbill | - | - | - | - | - | - | - | - | - | - | 12 | - | - | - | - |
| Common Redpoll | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Pine Siskin | - | 2 | - | - | - | - | 4 | 12 | 2 | - | 4 | - | 1 | 7 | - |
| American Goldfinch | 40 | 198 | 61 | 17 | 19 | 95 | 166 | 312 | 39 | 19 | 16 | 46 | 231 | 112 | 5 |
| Evening Grosbeak | - | - | - | - | - | - | 5 | 8 | 12 | - | - | - | 2 | - | - |
| House Sparrow | 22 | 562 | 19 | - | - | 73 | 34 | 237 | 22 | 22 | 38 | 6 | 326 | 27 | - |
| TOTAL SPECIES | 126 | 111 | 87 | 68 | 59 | 120 | 105 | 153 | 103 | 80 | 123 | 110 | 153 | 117 | 48 |
| TOTAL INDIVIDUALS | 2914 | 4436 | 1254 | 451 | 307 | 7302 | 3995 | 10798 | 2085 | 1080 | 2052 | 3623 | 8867 | 2836 | 216 |
| temperature (Fahrenheit) | 50-69 | 58-70 | - | 58-60 | 55-60 | 44-58 | 52-66 | 60-70 | 54-62 | - | 55-60 | 57-61 | 58-70 | 57-65 | 50-60 |
| wind direction | NW | - | - | E | - | NE | - | N | NE | - | - | - | N | - | - |
| wind speed (mph) | 0-10 | 0 | - | - | 5 | 9-25 | 1-3 | - | 5-15 | - | 0-3 | variable | 5-9 | 8 | 0 |
| per cent cloud cover | 50 | 15-50 | 100 | 100 | 100 | 100 | 80-100 | 50-100 | 90-100 | - | 60-100 | 100 | 40-100 | 100 | 90-100 |
| precipitation type | none | none | rain | rain | drizzle | rain | rain | rain | drizzle | - | trace | rain | light | rain | - |
| Party Hours (Foot/Car) | 18/15 | 12/19 | 11/2 | 9/0 | 5/0 | 22/7 | 29/23 | 59/26 | 33/20 | - | 5/15 | 3/25 | 78/44 | 17/14 | 2/3 |
| Party Miles (Foot/Car) | 19/105 | 12/243 | 12/11 | 5/0 | 3/0 | 12/152 | 10/227 | - | 20/245 | - | 7/153 | 3/15 | 68/434 | 14/164 | 2/20 |
| Observers (Parties/Number) | 4/10 | 10/23 | 4/6 | 3/7 | 1/3 | 3/4 | 9/15 | 23/36 | 16/26 | --/12 | 2/4 | 7/9 | 13/56 | 5/5 | 1/2 |

| | Totals | Number of Counts | High | High Count |
|-------------------------------|--------|---------------------|------|---------------|
| Hairy Woodpecker | 235 | 38 | 17 | WEST |
| Northern Flicker | 1106 | 43 | 90 | INDI |
| Pileated Woodpecker | 244 | 36 | 30 | INDI |
| Eastern Wood-Pewee | 60 | 22 | 9 | WAYN |
| Acadian Flycatcher | 56 | 16 | 12 | WEST |
| Alder Flycatcher | 2 | 1 | 2 | BUTL |
| Willow Flycatcher | 6 | 4 | 2 | 8 |
| Least Flycatcher | 236 | 22 | 53 | CAME |
| Eastern Phoebe | 1135 | 43 | 101 | INDI |
| Great Crested Flycatcher | 436 | 38 | 51 | FRAN |
| Eastern Kingbird | 547 | 39 | 82 | FRAN |
| Loggerhead Shrike | 5 | 2 | 3 | ADAM |
| White-eyed Vireo | 177 | 20 | 29 | WEST |
| Blue-headed Vireo | 256 | 31 | 39 | INDI |
| Yellow-throated Vireo | 141 | 27 | 18 | BUTL |
| Warbling Vireo | 228 | 31 | 20 | LACK |
| Philadelphia Vireo | 5 | 4 | 2 | BUCK |
| Red-eyed Vireo | 1351 | 43 | 121 | FRAN |
| Blue Jay | 4289 | 43 | 544 | INDI |
| American Crow | 6748 | 43 | 715 | INDI |
| Fish Crow | 194 | 18 | 85 | LANC |
| Common Raven | 80 | 25 | 9 | CENT |
| Horned Lark | 198 | 19 | 53 | LAWR |
| Purple Martin | 967 | 22 | 203 | MIFF |
| Tree Swallow | 6427 | 43 | 657 | CHES |
| Northern Rough-winged Swallow | 1165 | 41 | 169 | BUCK |
| Bank Swallow | 1221 | 28 | 419 | LANC |
| Cliff Swallow | 683 | 26 | 127 | BUCK |
| Barn Swallow | 6114 | 39 | 452 | FRAN |
| Carolina Chickadee | 559 | 15 | 93 | CHES |
| Black-capped Chickadee | 1640 | 37 | 200 | INDI |
| Tufted Titmouse | 2307 | 43 | 181 | FRAN |
| Red-breasted Nuthatch | 82 | 24 | 9 | 9 |
| White-breasted Nuthatch | 679 | 41 | 75 | INDI |
| Brown Creeper | 73 | 20 | 8 | SCHU |
| Carolina Wren | 498 | 36 | 43 | WEST |
| House Wren | 1542 | 41 | 125 | FRAN |
| Winter Wren | 27 | 10 | 5 | CAME |
| Marsh Wren | 26 | 6 | 12 | CRAW |
| Golden-crowned Kinglet | 42 | 13 | 10 | SCHU |
| Ruby-crowned Kinglet | 121 | 29 | 18 | SCHU |
| Blue-gray Gnatcatcher | 1007 | 39 | 84 | SCHU |
| Eastern Bluebird | 1457 | 42 | 181 | FRAN |
| Veery | 238 | 30 | 32 | SCHU |
| Swainson's Thrush | 11 | 9 | 2 | 10 |
| Hermit Thrush | 176 | 25 | 48 | CAME |
| Wood Thrush | 2856 | 43 | 302 | INDI |
| American Robin | 12994 | 43 | 1534 | INDI |
| Gray Catbird | 3816 | 43 | 340 | CHES |
| Northern Mockingbird | 492 | 32 | 94 | FRAN |
| Brown Thrasher | 324 | 37 | 59 | FRAN |
| European Starling | 12490 | 42 | 1283 | FRAN |
| American Pipit | 111 | 7 | 35 | FRAN |
| Cedar Waxwing | 571 | 27 | 89 | LANC |
| Blue-winged Warbler | 493 | 37 | 67 | GREE |
| Golden-winged Warbler | 42 | 13 | 15 | LYCO |
| Tennessee Warbler | 20 | 5 | 7 | MERC |

| | Totals | Number of Counts | High | High Count |
|------------------------------|--------|---------------------|------|---------------|
| Orange-crowned Warbler | 2 | 2 | 1 | 11 |
| Nashville Warbler | 128 | 22 | 27 | BUTL |
| Northern Parula | 287 | 26 | 103 | SCHU |
| Yellow Warbler | 2286 | 42 | 220 | INDI |
| Chestnut-sided Warbler | 336 | 33 | 34 | CENT |
| Magnolia Warbler | 100 | 27 | 12 | WEST |
| Cape May Warbler | 19 | 10 | 4 | CUMB |
| Black-throated Blue Warbler | 354 | 35 | 43 | CAME |
| Myrtle Warbler | 2457 | 38 | 586 | LANC |
| Black-throated Green Warbler | 1135 | 39 | 189 | INDI |
| Blackburnian Warbler | 209 | 26 | 57 | CAME |
| Yellow-throated Warbler | 44 | 13 | 9 | GREE |
| Pine Warbler | 55 | 13 | 14 | SCHU |
| Prairie Warbler | 308 | 31 | 47 | INDI |
| Palm Warbler | 34 | 13 | 7 | LANC |
| Bay-breasted Warbler | 25 | 11 | 10 | BUTL |
| Blackpoll Warbler | 24 | 9 | 15 | PHIL |
| Cerulean Warbler | 151 | 24 | 29 | WEST |
| Black-and-white Warbler | 715 | 39 | 86 | SCHU |
| American Redstart | 1129 | 40 | 126 | CAME |
| Prothonotary Warbler | 9 | 6 | 2 | 12 |
| Worm-eating Warbler | 278 | 28 | 34 | SCHU |
| Swainson's Warbler | 2 | 2 | 1 | 13 |
| Ovenbird | 3478 | 43 | 359 | INDI |
| Northern Waterthrush | 74 | 20 | 20 | PHIL |
| Louisiana Waterthrush | 198 | 30 | 21 | WEST |
| Kentucky Warbler | 84 | 20 | 16 | WEST |
| Connecticut Warbler | 1 | 1 | 1 | ALLE |
| Mourning Warbler | 2 | 2 | 1 | 14 |
| Common Yellowthroat | 3836 | 42 | 554 | INDI |
| Hooded Warbler | 284 | 23 | 55 | INDI |
| Canada Warbler | 21 | 7 | 8 | CENT |
| Wilson's Warbler | 4 | 3 | 2 | WAYN |
| Yellow-breasted Chat | 92 | 15 | 25 | WEST |
| Summer Tanager | 6 | 1 | 6 | ADAM |
| Scarlet Tanager | 1022 | 42 | 85 | INDI |
| Eastern Towhee | 3097 | 43 | 486 | INDI |
| Chipping Sparrow | 3821 | 43 | 465 | INDI |
| Field Sparrow | 1656 | 41 | 304 | INDI |
| Vesper Sparrow | 47 | 18 | 9 | CENT |
| Savannah Sparrow | 372 | 30 | 109 | BUTL |
| Grasshopper Sparrow | 237 | 25 | 46 | FRAN |
| Henslow's Sparrow | 121 | 10 | 45 | BUTL |
| Fox Sparrow | 1 | 1 | 1 | BLAI |
| Song Sparrow | 3920 | 43 | 235 | WEST |
| Lincoln's Sparrow | 5 | 4 | 2 | WEST |
| Swamp Sparrow | 298 | 31 | 30 | TIOG |
| White-throated Sparrow | 701 | 37 | 88 | INDI |
| White-crowned Sparrow | 164 | 26 | 52 | FRAN |
| Slate-colored Junco | 293 | 22 | 56 | SULL |
| Northern Cardinal | 3825 | 43 | 341 | INDI |
| Rose-breasted Grosbeak | 981 | 40 | 108 | INDI |
| Blue Grosbeak | 5 | 2 | 3 | LANC |
| Indigo Bunting | 983 | 40 | 130 | INDI |
| Bobolink | 1221 | 43 | 146 | LACK |
| Red-winged Blackbird | 11516 | 34 | 1283 | INDI |
| Eastern Meadowlark | 902 | 39 | 115 | INDI |

| | Totals | Number of Counts | High | High Count |
|-------------------------|--------|---------------------|-------|---------------|
| Yellow-headed Blackbird | 2 | 2 | 1 | 15 |
| Rusty Blackbird | 12 | 5 | 4 | BEAV |
| Common Grackle | 10706 | 43 | 1167 | FRAN |
| Brown-headed Cowbird | 2598 | 42 | 198 | INDI |
| Orchard Oriole | 184 | 26 | 26 | WEST |
| Baltimore Oriole | 2347 | 42 | 134 | WEST |
| Purple Finch | 308 | 32 | 32 | SCHU |
| House Finch | 2223 | 42 | 255 | FRAN |
| Red Crossbill | 20 | 4 | 8 | WEST |
| White-winged Crossbill | 50 | 3 | 37 | JUNI |
| Common Redpoll | 14 | 1 | 14 | HUNT |
| Pine Siskin | 137 | 21 | 20 | 16 |
| American Goldfinch | 4750 | 43 | 329 | INDI |
| Evening Grosbeak | 84 | 13 | 15 | 17 |
| House Sparrow | 4440 | 40 | 562 | MIFF |
| TOTAL SPECIES | 237 | 43 | 166 | FRAN |
| TOTAL INDIVIDUALS | 202835 | 43 | 15820 | INDI |

Codes for Multiple Counts in High Column

- 1 = Lancaster, Philadelphia
- 2 = Cumberland, Lehigh
- 3 = Cumberland, Schuylkill
- 4 = Berks, Lawrence
- 5 = Crawford, Lawrence, Schuylkill
- 6 = Dauphin, Lancaster
- 7 = Franklin, Westmoreland
- 8 = Butler, Clarion
- 9 = Indiana, Schuylkill
- 10 = Allegheny, Franklin
- 11 = Huntingdon, Indiana
- 12 = Cumberland, Lancaster, Wayne
- 13 = Dauphin, Westmoreland
- 14 = Butler, Cameron
- 15 = Lancaster, Potter
- 16 = Centre, Clarion
- 17 = Butler, Huntingdon

A Band-rumped Storm-Petrel (*Oceanodroma castro*) Found on the Shore of Lake Erie in Pennsylvania

by Gerald M. McWilliams

On 24 February 1998 a beach walker came upon the remains of a small dark bird while walking along Manchester Beach. This beach is located at the mouth of Walnut Creek in Fairview Township, Erie County, Pennsylvania. Having some knowledge of birds, he recognized it as a bird unfamiliar to him. He took it back to his house, searched through a bird book, and matched the remains with the illustration of a petrel. He gave the bird to Jean Stull Cunningham and Sam Stull who confirmed his identification. However, it was a challenge to name the species, since the bird was in very poor condition. Its size and all dark plumage narrowed the possibilities to three species of storm-petrel: Wilson's (*Oceanites oceanicus*), Leach's, and Band-rumped. Jean and Sam immediately dismissed it as a Wilson's Storm-Petrel because the legs were far too long, the webs between the toes were all black, and the wings were too long and narrow. They concluded that it was most likely a Leach's (*O. leucorhoa*) or a Band-rumped Storm-Petrel. Jean called me and suggested that I take a look at this bird to see what I thought. After taking measurements of the petrel and reading through several sources of information, we concluded that the bird was most likely a Band-rumped Storm-Petrel. Band-rumped Storm-Petrels breed in the tropical Pacific and Atlantic Oceans and disperse north in the Atlantic Ocean to Massachusetts. To be sure, I went to Pittsburgh to look at skins at the Carnegie Museum of Natural History. Kenneth Parkes and I looked at Leach's and Band-rumped Storm-Petrel skins and compared them to this bird. Ken agreed that the Lake Erie petrel most closely matched the Band-rumped Storm-Petrel skins in the museum collection. Since there were very few band-rumped skins at the Carnegie Museum, I decided to send the specimen to David Lee at the North Carolina State Museum of Natural Sciences where a large collection of Band-rumped Storm-Petrel skins is housed. David also agreed that the bird was a Band-

rumped Storm-Petrel. He wrote, "The specimen was a challenge. I concluded it was *castro* based on subtle differences of the arrangement of white on the outer tail feathers." He continues to say "Nevertheless, I would not be comfortable with using this for species identification on such an aberrant record. A more measurable difference is the length of the outer tail feathers. Leach's Storm-Petrels have outer tail feathers which average 10 mm longer than those on Band-rumped Storm-Petrels. Your specimen is within the range of measurements of all our *castro*, and all of the *leucorhoa* in our series are at least 5-8 mm longer."

As you can see by the photographs of this specimen, nearly all of the critical identification characteristics for either Leach's or Band-rumped storm-Petrel are missing. To complicate the identification further, the remaining plumage is very worn. All that was left of the head was the lower mandible, which was twisted around to the dorsal side of the bird. Most feathering was missing from both the upper and undersides of the bird. Perhaps one of the most important identification features of the petrel was not present, the white tail coverts that form a distinctive pattern used in separating these two species. All of the uppertail coverts were missing and only a couple of the undertail coverts were present. Even the shape of the tail was difficult to discern because there were only five rectrices. However, three of those feathers were the outer three that seemed to suggest a square or perhaps a notched tail rather than a forked tail. The wings were the best preserved parts of the bird: both the upper and undersides were dark showing no white feathering. The greater and outer median coverts were distinctly paler than the rest of the wing, but the extent of darkness and lightness is irrelevant on this specimen because of the significant wear to these feathers.

It is uncertain when this bird arrived on Lake Erie, how long it survived, or when it got here. It seems most likely that the bird was carried inland to Lake Erie by Hurricane Fran

after it passed across Pennsylvania on 7 September 1996. Several other species of seabirds carried inland from this storm were found in Pennsylvania and at the northeast end of Lake Erie. A few were still being observed on Lake Erie several days following the storm's passage.

This is the first confirmed record of Band-rumped Storm-Petrel for Pennsylvania. A bird identified as this species was found dead along one of the streets of Chambersburg in Franklin County in April 1912, but the whereabouts of the specimen is not known.

There have been very few records of Band-rumped Storm-Petrels away from the open ocean in North America. Table 1 is a list of all known Band-rumped Storm-Petrels for the interior and coast of North America prior to 1996 (Brinkley, E. S. pers. comm.).

Hurricane Bertha was the first storm to make landfall in 1996. This single storm carried more Band-rumped Storm-Petrels to the Atlantic seaboard than in all previously recorded history. In September 1996, Hurricane Eduardo brought seabirds to Cape Cod, and Hurricane Fran carried seabirds as far inland as the Great Lakes, but no Band-rumped Storm-Petrels were reported among them.

Table 2 is a list of Band-rumped Storm-Petrels carried inland from Hurricane Bertha (Brinkley, E. S., T. Hass, and J. Lockyer 1997. The Storms of '96. Field Notes 51(4) 823)

Acknowledgments:

I am greatly indebted to Kenneth Parkes for assisting me with the initial identification of the petrel; to David Lee for examining and conclusively identifying the specimen; and to Edward Brinkley for the pre-1996 Band-rumped Storm-Petrel records and for permission to use the list of Hurricane Bertha records for this paper. I wish to thank Ted Floyd, Paul Hess, Don Snyder, Jean Stull Cunningham, Harry Cunningham, Sam Stull, and Brian Pardini for additional information.

References:

American Ornithologists' Union. 1998. Check-list of North American birds. 7th ed. Lawrence, Kansas: Allen Press.

Brinkley, E. S., T. Hass, and J. Lockyer 1997. The Storms of '96. Field Notes 51(4) 819-829.

Coues, E. 1903. Key to North American Birds, Vo. 11. Fifth ed. Boston: The Page Company.

Murphy, R. C. 1936. Oceanic Birds of South America, Vol. 1. New York: Museum of Natural History.

Forbush, E. H. 1925. Birds of Massachusetts and other New England States, Vol. 1. Commonwealth of Massachusetts.

Godfrey, E. W. 1986. Birds of Canada, revised edition. National Museum of Natural Sciences: National Museums of Canada.

Harrison, P. 1983. Seabirds, An Identification Guide. Boston, Ma.: Houghton Mifflin Company.

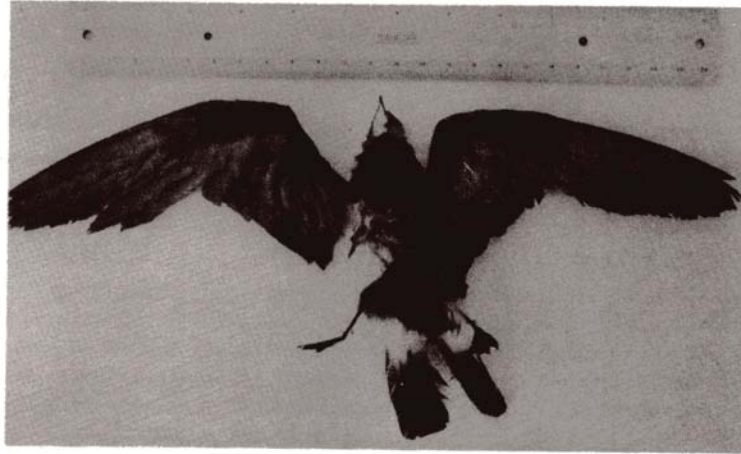
—1987. Seabirds of the World. Princeton, NJ: Princeton University Press.

Pulcinella, N. 1996. Hurricane Fran's Fallout. Pennsylvania Birds 10(3) 138-142.

Stallcup, R. 1990. Ocean Birds of the Nearshore Pacific. Point Reyes Bird Observatory, Ca.

Stoker, T. 1968. Birds of the Atlantic Ocean. New York. The Macmillan Company.

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



Band-rumped Storm-Petrel, 02/24/1998, Manchester Beach, Erie. Photos by Gerry McWilliams.

Table 1. Interior and coast records of Band-rumped Storm-Petrel prior to 1996.

| No. of birds | Date | Location | Storm |
|--------------|--------------|-------------------------------|--------------------------------|
| 1 | 29 Aug 1893 | Washington, DC | Sea Islands Hurricane |
| 1 | 01 June 1902 | Indiana | no hurricane activity |
| 1 | 28 Aug 1933 | Ottawa Carleton, Ontario | Great Hurricane of 1933 |
| 1 | 02 Sept 1950 | near Defiance St. Charles, MO | Hurricane/Tropical Storm Baker |

Table 2. Band-rumped Storm-Petrels carried inland from Hurricane Bertha.

| No. of birds | Date | Location |
|--------------|---------|---|
| 1 | 12 July | 89th Street, Virginia Beach, Virginia |
| 7 | 13 July | Chesapeake Bay Bridge-Tunnel, Virginia |
| 2-3 | 13 July | False Cape State Park, Virginia Beach, Virginia |
| 11 | 13 July | Cape May (Bay side), New Jersey |
| 1 | 14 July | Cape May/Lewes Ferry, Delaware |
| 1 | 14 July | Cape May (Bay side), New Jersey |
| 1 | 15 July | Cape May/Lewes Ferry, Delaware |
| 2 | 17 July | Delaware Bay, Cumberland County, New Jersey |

BOOK REVIEW

by Gene Wilhelm

BIRDS OF BUCKS COUNTY, PENNSYLVANIA. Kenneth Kitson, Jr. vi + 122 pp., front cover photograph of American Goldfinch by Dan Williams, back cover photograph of Tohickon Creek by Margaret Mattheson, 36 line drawings by the author, 2 maps of Bucks County, 18 maps of birding locations in the county, 250 bar graphs of species, supplemental list, references, appendix and index. Bucks County Audubon Society, 6324 Upper York Road, New Hope, PA 18938. 1998. \$12.50.

Ken Kitson, author of this fine book, has collected a great amount of bird information for Bucks County in a short period of time. Since 1989 he has been compiler for the Peace Valley Nature Center weekly sightings and for the Central Bucks Christmas Count. Since 1992 he has been the Bucks County compiler for *Pennsylvania Birds* and in 1993 became the Bucks County compiler for the North American Migratory Count (NAMC). He has prepared two checklists previously - Birds of Peace Valley Park and Birds of Bucks County, PA and now has written this concise and interesting treatise on that county's avifauna.

The book is subdivided into Introduction through General Trends (pp. 1-14), Species Reviews, which are the bulk of the book (pp. 15-93), Supplemental List (pp. 94-97), Birding Locations in Bucks County (pp. 98-109), References (p. 110), Appendix I - Accidental Species Reports (pp. 111-116) and Index (pp. 117-122). The work represents the first updating of the county's bird life in forty-three years. Within that time frame urban sprawl and habitat changes have had considerable impact on the county's avifauna. The book covers not only species and subspecies that are seen with some frequency in the county, but also accidental species and potential species that have been recorded elsewhere in southeastern Pennsylvania but not yet in Bucks County.

The county, like many others in proximity to urban areas, has experienced human impacts on its

diversified natural environment consisting of several physiographic features, including the Delaware River Watershed, Coastal Plain, Fall Line, Piedmont Plateau, Reading Prong and Quakertown Swamp. These major landscapes, in turn, originally harbored a rich variety of natural habitats from wetlands and streams to luxurious riparian and upland climax forests. But as the land was settled, the forests were cleared and much of the swamps were drained and cultivated.

In sum, Bucks County has witnessed several major changes in the past 300 years from being almost totally an upland climax forest to a combination of forest, younger woodlands and open agricultural areas. During this time several large swamps were lost or severely reduced in size. From the 1930s through the 1970s, a number of lakes were added throughout the county, a human development process that continues to the present day. In the 1950s the increase in the size and density of urban communities began as illustrated by the county's increasing population from 27,500 in 1800 to 576,000 in 1996. Today, developed areas amount to one-third of the county and it is estimated that by the year 2025 developed areas will occupy nearly half of the county. Urban sprawl has particularly impacted open grasslands and agricultural areas and their avifauna.

Describing the status of birds is challenging and the author deals with this problem with some success. As Kitson states (p.11): "It is easy to make the assumption that information given in the form of numbers is more precise, and therefore more accurate, than anecdotal information. This is not necessarily true for the information we have about birds. There are many factors that impact on the final numbers and our subsequent interpretation of them. The first item is that almost all numerical data we have is current and only provides information over a relatively short period of time."

As valid as this statement is, the author could have quantified frequency

and residency terms based upon that numerical data period using number of reports and individuals. Other local bird guides use relative abundance terms as percentage of the probability of a single party of one or more birders observing the species in its preferred habitat at a certain time of year.

I was somewhat uneasy about the definition and use of the term habitat in the text, which varied in size from the macro (the whole county) to the micro (edge) levels. In reality, Bucks County consists of distinct physiographic provinces, which, in turn, have many smaller ecosystems, life communities and habitats. A noticeable missing county habitat (pp. 9-10) is swamp, especially important since Quakertown Swamp is still one of the largest intact wetlands in southeastern Pennsylvania. Missing, too, is the size of Bucks County in square miles.

Putting aside these minor flaws, however, Kitson has provided current information about the avifauna of Bucks County that clearly focuses upon chances of birders seeing given species, when, where, their present status and population trends. Further, the description of thirty-three birding locations accessible to the public, their given facilities and key species found there, is most useful information for any birder investigating the avifauna of the county.

The book is available at the Nature Gift Shop in the Audubon Visitor Center or you may purchase a copy by mail. Checks should be made to Bucks County Audubon Society.

*513 Kelly Rd.
Slippery Rock, PA 16057*

Summary of the Season - July through September 1998

This quarter continued the year's rarity abundance (isn't that an oxymoron?). Deuane Hoffman sure picked the right year to go after the Pennsylvania Big Year record!

An apparently lost **Horned Grebe** appeared in *Tioga* in July. An **Eared Grebe** made its annual appearance in *Erie*. There were no highly unusual heron or egret reports, but a **Glossy Ibis** stayed for several days in *Montgomery* (When are we going to get a White-faced?).

A number of **Tundra Swans** showed up in August in *Lebanon* and *Luzerne*, and an immature spent the summer with two Mute Swans in *Schuylkill*.

The best waterfowl of the season was the **Cinnamon Teal**; in *Clarion*. This was the third state record in four years (11/25-27/95 *Lancaster* and 11/5/96 *Butler*).

The weekend of 9/23-24 had early **Golden Eagles** moving in *Dauphin*, *Delaware*, and *Schuylkill*.

American Avocets continue to show up annually in varied locations. This quarter, they were reported in *Berks*, *Bucks*, *Indiana*, and *Montgomery*. Although they only occasionally stay around more than a day, they are becoming an "expected" species in the state every year.

Hudsonian Godwits were better than average this year, with reports from *Erie*, *Montgomery*, and *Northampton*. Since 1987, the number of Hudsonian Godwit records each year are as follows (note — this is number of instances, not number of birds):

| | | | |
|------|---|------|---|
| 1987 | 1 | 1993 | 1 |
| 1988 | 4 | 1994 | 0 |
| 1989 | 0 | 1995 | 1 |
| 1990 | 0 | 1996 | 1 |
| 1991 | 5 | 1997 | 2 |
| 1992 | 1 | 1998 | 3 |

That's only 19 sightings in 12 years, with no reports in 3 of those years. Consider yourself fortunate to have this species on your year's list!

Buff-breasted Sandpipers also made a good showing, being reported from *Crawford*, *Lancaster*, *Mercer*, and *Montgomery*. This species has certainly been reported more frequently in recent years. The number of reports since 1987 are as follows:

| | | | |
|------|---|------|---|
| 1987 | 1 | 1993 | 2 |
| 1988 | 1 | 1994 | 6 |
| 1989 | 0 | 1995 | 5 |
| 1990 | 0 | 1996 | 3 |
| 1991 | 7 | 1997 | 2 |
| 1992 | 0 | 1998 | 4 |

When we did our Big Year in 1986, there was only one report — thank goodness we got it.

All three **phalaropes** were reported. A dead **Sabine's Gull** found in *Erie* on 9/24 follows the trend of late September being the time to look for this species (dead or alive!).

A belated report of a **Eurasian Collared Dove** from April in *Schuylkill* was only the third state record. The **White-winged Dove** reported last issue from *Schuylkill* stayed until 7/3. I guess *Schuylkill* is the rare dove capital this year.

A very cooperative **Rufous Hummingbird** in *Berks* was only their second county record.

An amazing two **Western Kingbirds** were reported—one cooperative (*Bucks*) and one not (*Mercer*).

The **Bewick's Wren** reported from *Clarion* would be the first

record in the state since 1976 if accepted by PORC. **Sedge Wren** continues to elude most observers in the state, so the one in *Westmoreland* was a nice find.

Clay-colored Sparrows appear to have bred in *Clarion* this quarter.

The "Rare bird capital of Eastern Pennsylvania" (Arlene Koch's backyard) attracted a **Black-headed Grosbeak** (*Northampton*).

Western Meadowlarks showed up in *Crawford* and *Juniata*. The *Juniata* bird returning to the same location as last year.

Lingering **crossbills** were reported from *Indiana* (**Red**) and *Cumberland* (**White-winged**). And **Pine Siskins** were reported in July from *Indiana*, *Somerset* (bred), and *Warren*.

One unusually early **Evening Grosbeak** was reported in *Butler*, but it was not a precursor to another "northern finch" year. The memories of last winter will have to suffice for this year.

There were **267** species reported this quarter, 1 more than the **266** reported in the same quarter last year. We received partial or complete reports from **55** counties.

Thanks again to our hard-working county compilers! ♣

Frank & Barb Haas

Birds of Note - July through September 1998

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

Rare and unusual sightings for which details have been submitted will be reviewed by the Pennsylvania Ornithological Records Committee. "No details" means no **description of the bird** was submitted.

Horned Grebe - *Berks*: 1 on 9/19 at Glen Morgan Lake (Ken Lebo); *Erie*: Present from early September through the quarter at Presque Isle S.P. (Jerry McWilliams); *Tioga*: 1 on 7/2 at Hills Creek S.P. (Larry & Austin Brown).

Eared Grebe - *Erie*: 1 on 9/4-5 at Presque Isle S.P. (Randy Stringer, Mike Fialkovich)(No details).

Least Bittern - *Delaware*: Present all quarter with a high of 3 on 8/28 at Darby Creek (Al Guarente); *Philadelphia*: Present up to 8/22 at Tincum NWR.

Tricolored Heron - *Berks*: 1 on 9/6-20 at Lake Ontelaunee (Jim Eckert).

Cattle Egret - *Berks*: 7 on 7/27 at Green Hills (Karin Lebo); *Lancaster*: 4 on 8/2 at Washington Boro (Peter Robinson); *Philadelphia*: 1 on 8/17 at Tincum NWR (Ted Floyd).

Yellow-crowned Night-Heron - *Cumberland/Dauphin*: Present up to 9/19 at West Fairview (Ramsay Koury); *Lancaster*: Present part of the quarter; *Philadelphia*: 1 on 8/9 at Tincum NWR (Ted Floyd).

Glossy Ibis - *Montgomery*: 1 on 8/21-25 at Green Lane Reservoir (Ralph Bordman).

Tundra Swan - *Lebanon*: 2 on 8/21 at Reistville (Randy Miller, Bruce Weaver); *Luzerne*: 4 on 8/24 at Council Cup were early (Autumn Peiffer); *Schuylkill*: An immature remained all quarter at Landingville Dam.

Cinnamon Teal - *Clarion*: 1 on 9/21 at Curllsville (Margaret Buckwalter, John Fedak);

Canvasback - *Erie*: Present from late September through the quarter at Presque Isle S.P. (Jerry McWilliams).

Redhead - *Erie*: Present from late September through the quarter at Presque Isle S.P. (Jerry McWilliams).

Greater Scaup - *Berks*: 1 on 9/19 at Glen Morgan Lake (Ken Lebo); *Erie*: Present part of the quarter.

Lesser Scaup - *Berks*: 1 on 7/10 at Glen Morgan Lake (Ken Lebo); *Crawford*: 1 on 8/9-9/26 at Woodcock Lake (Ron Leberman); *Erie*: Present part of the quarter; *Potter*: 1 on 9/19 at Potter Brook (Jack Mitterer).

Bufflehead - *Delaware*: 1 on 8/20 at Springton Reservoir (Nick Pulcinella).

Common Goldeneye - *Clinton*: Present part of the quarter; *Erie*: Present part of the quarter; *Pike*: 1 on 8/7 at Delaware Water Gap (Charlie Muise).

Red-breasted Merganser - *Dauphin*: 1 on 8/8-16 at the Susquehanna River (Mark McConaughy, Grace Randolph); *Erie*: Present part of the quarter.

Golden Eagle - *Dauphin*: 2 on 9/24 at Blue Mountain (Grace Randolph); *Delaware*: 3 on 9/23 at Rose Tree Park (m. obs.); *Schuylkill*: 1 on 9/23 at Hawk Mountain Sanctuary.

King Rail - *Tioga*: 1 on 9/29 at Hills Creek S.P. (Larry & Arlene Brown).

Sandhill Crane - *Butler/Lawrence/Mercer*: Present all

quarter; *Somerset*: A late report of 2 seen in April (no details).

American Avocet - *Berks*: 1 on 9/3-6 at Shartlesville (m. obs.); *Bucks*: 3 on 8/11 at Penn Manor were a third county record (J. Hartley); *Indiana*: 1 on 7/17 at Yellow Creek S.P. (m. obs.); *Montgomery*: 1 on 8/10 at Green Lane Reservoir (Ralph Bordman).

Willet - *Butler*: 2 on 8/10 at Lake Onieda (Debbie Yovanovich);

Upland Sandpiper - *Cumberland*: Present part of the quarter; *Lawrence*: Present part of the quarter; *Northampton*: 1 on 9/6 at Berry Hollow Road (Rick Wiltraut); *Somerset*: Present up to 7/13 at Berlin area (Jeff Payne); *Warren*: 1 on 8/4 near Lander (Bill Highhouse).

Hudsonian Godwit - *Erie*: 1 on 9/2-4 at Presque Isle S.P. (Don Snyder, Jerry McWilliams); *Montgomery*: 1 on 8/31-9/2 at Green Lane Reservoir (George Francois); *Northampton*: 4 on 8/17 at Martin's Creek were a first county record (Rick Wiltraut).

Ruddy Turnstone - *Erie*: 1 on 8/21 at Presque Isle S.P. (Jerry McWilliams); *Lancaster*: 1 on 7/26 at Washington Boro (Tom Garner, Jerry Book); *Mercer*: 1 on 8/30-9/2 at Shenango River Reservoir (m. obs.).

Red Knot - *Erie*: 1 on 8/27 at Presque Isle S.P. (Don Snyder).

Buff-breasted Sandpiper - *Crawford*: 1 on 9/6 at Woodcock Lake (Ron Leberman); *Lancaster*: 1 on 8/15 and 2 on 8/30 at Washington Boro (Tom Garner, Eric Witmer, Peter Robinson); *Mercer*: 1 on 9/5 at Shenango River Reservoir (Mike Fialkovich, Margie Kern, Scott Kinzey); *Montgomery*: 1 on 8/23-9/12 at Green Lane Reservoir (m.obs.).

Long-billed Dowitcher - *Crawford*: 1 on 8/16 at Miller's Pond and 1 on 8/30 at Woodcock Lake (Ron Leberman); *Luzerne*: 1 on 7/17 at Plymouth Flats (Rick Koval); *Mercer*: 1 on 9/23 at Shenango River Reservoir (Ted Floyd, Paul Hess).

Wilson's Phalarope - *Crawford*: 1 on 8/16 at Conneaut Marsh (Ron Leberman); *Montgomery*: 1 on 9/7-16 at Green Lane Reservoir (George Francois, Ken Reiker).

Red-necked Phalarope - *Lancaster*: 1 on 8/14-16 at Washington Boro (Tom Garner, Eric Witmer, Peter Robinson); *Wyoming*: 1 on 9/17 at South Eaton (Bill Reid).

Red Phalarope - *Lancaster*: 1 on 8/19 at Washington Boro (Peter Robinson)(no details).

Laughing Gull - *Delaware*: Present all quarter with a high of 30 on 8/28 at Essington (Nick Pulcinella, Jim Lockyer); *Philadelphia*: Present all quarter with a high of 65 on 8/19 at Tincum NWR (Ted Floyd).

Franklin's Gull - *Dauphin*: 1 on 9/5 (no details);

Bonaparte's Gull - *Erie*: Present all quarter at Presque Isle S.P. (Jerry McWilliams); *Indiana*: 3 on 7/11 at Yellow Creek S.P. (Greg Cook).

Sabine's Gull - *Erie*: 1 found dead on 9/24 at Presque Isle S.P. (Ann Desarro).

Eurasian Collared Dove - *Schuylkill*: 1 photographed on

4/18 at Hidden Valley Golf Course (Ann Marie Leibner).

White-winged Dove - *Schuylkill*: The bird reported last quarter remained to 7/3 at Wayne Twp. (Scott Weidensaul).

Long-eared Owl - *Schuylkill*: Permanent resident.

Rufous Hummingbird - *Berks*: 1 on 9/15 through the quarter near Boyertown was a second county record (Jeanne Keim, et al.);

Western Kingbird - *Bucks*: 1 on 9/11-17 at Plumstead was the fifth county record (Babe Webster); *Mercer*: 1 on 9/25-26 at Valley Road (Randy Stringer, Joyce Hoffman).

Loggerhead Shrike - *Adams*: Present all quarter (Deb Siefken).

Bewick's Wren - *Clarion*: 1 on 9/29 at Brady's Bend, if accepted by PORC would be the first state record since 1976 (John Fedak).

Sedge Wren - *Westmoreland*: 1 on 7/1 at Delmont (Dennis Lauffer).

Orange-crowned Warbler - *Berks*: Seen from 9/3 to 9/28 with a high of 9 on 9/11 at Hawk Mountain Sanctuary (m. obs.); *Erie*: 1 on 9/19 at Presque Isle S.P. (Joyce Hoffman); *Luzerne*: 1 on 9/17 at Council Cup (Rick Koval); *York*: 1 on 9/19 at Shepard Myers Dam (Peter Robinson).

Prothonotary Warbler - *Bucks*: 1 on 8/23 at Shaffer Lake (Norann Davis); *Cumberland*: 1 on 9/7 at Pine Grove Furnace S.P. (John Dale); *Lackawanna*: Present part of the quarter; *York*: 3 present up to 7/25 at Gut Road (John & Jean Prescott).

Summer Tanager - *Greene*: Present at least to early July (Ralph Bell); *Luzerne*: 1 on 9/19 at Hobbie was a second county record (Autumn Peiffer).

Clay-colored Sparrow - *Clarion*: a pair on 7/17-25 at Mt. Zion probably bred (John Fedak); *Jefferson*: 1 on 9/19 at Rts 483 and 308 (John Fedak); *Schuylkill*: 1 on 9/12 at Wayne Twp. (Scott Weidensaul).

Black-headed Grosbeak - *Northampton*: 1 on 7/26 at Williams Twp. was a first county record (Arlene Koch).

Dickcissel - *Cumberland*: 1 on 7/3 at Newburg (Rick Wiltraut); *Delaware*: 1 on 9/26 near Wawa (Al Guarente, Nick Pulcinella).

Western Meadowlark - *Crawford*: 1 near Hickernell (no date, no details) (Clare Nicolls); *Juniata*: The bird reported last quarter was last reported on 7/2.

Brewer's Blackbird - *Schuylkill*: 1 on 9/19 at Sweet Arrow Lake was the third county record (Denise Donmoyer).

Red Crossbill - *Indiana*: 1 on 7/3 at Yellow Creek S.P. (Greg Cook).

White-winged Crossbill - *Cumberland*: 1 on 9/20 at Pine Grove Furnace S.P. (Peter Robinson).

Pine Siskin - *Indiana*: 3 on 7/8 at Nolo (Gloria Lamer); *Somerset*: Present all quarter and bred at Jeff Payne's place (Jeff Payne); *Tioga*: 2 on 7/21 at Jobs Corner (Larry & Arlene Brown); *Warren*: 1 to 3 present at Saybrook up to 7/15 (Marge Neel).

Evening Grosbeak - *Butler*: 1 on 9/1 at Slippery Rock (Don Oesterling) *

SWALLOW NOTES or Gene Wilhelm

The Cliff Swallow breeding colonies in Butler and Mercer Cos. held their own in 1998, despite a severe dry spell that lasted six weeks.

Route 528 bridge over Lake Arthur, Moraine State Park, Butler Co: 397+ nests.

U. S. 422 bridge over lake Arthur, Moraine State park, Butler Co: 96+ nests.

Route 18 bridge over Shenango lake, mercer Co: 141+ nests.

Shenango Lake Visitor Center, Mercer Co: 11 nests.

Consult Gene Wilhelm, "Swallow notes," *Pa. Birds* 12 (1): 9 for nesting results in previous years.

BARRED OWL NOTE II by Gene Wilhelm

Thanks for the many responses from readers across Pennsylvania re "Barred Owl Note," *Pa. Birds* 12 (1):9. It is apparent from the notes and letters that this species is adapting well to a suburban life style and fears neither humans nor their domesticated pets. Perhaps the following story best describes the food adaptability of this fascinating owl.

"I read your note about Barred Owl behavior at feeders in the last issue of *Pa. Birds* and I wanted to convey an experience that friends of mine had this summer. I arrived for house sitting at the friends' house about 6:30 p.m. on the 5th of July. The property is fairly well wooded with some trees next to the house. I heard a Barred Owl calling almost immediately. When the owners returned at the end of the week, I told them about the owl and asked them to listen for the presence of young and keep me informed.

A few days later, they called to tell me about an interesting experience with the owls. One night they heard the adults hooting and the young responding, so they began to watch more closely for activity. The following evening, about an hour before dark, they noticed the owls actively hunting near the yard. The owner decided to try 'fishing' for them. He tied a rubber mouse to a fishing pole and cast it onto the lawn. To his surprise, the adult owl immediately swooped down and attacked the mouse. It did this twice before apparently figuring out that it was inedible and settled back onto a perch. Afterwards, the young birds began to swoop down for the mouse. They continued this until well after dark, without regard for the presence of the owner or his two young sons who were quite impressed by the show. All the while the adult bird stayed on the perch and watched them, maybe understanding that they needed the practice. My friend's wife took pictures while he 'fished.' I hope that you find the story interesting."

Sherri LaBar

Local Notes

Adams County

From 8/12-9/30 Art & Nonie Kennell saw the following at their backyard water pond: 123 **Black-throated Green**, 14 **Chestnut-sided**, 9 **Cerulean**, 23 **Am. Redstart**, 10 **Ovenbird**, 19 **Blackburnian**, 7 **Black-and-white**, 11 **Bay-breasted**, 11 **Magnolia**, 17 **Black-throated Blue**, and 12 **Nashville warblers**.

Allegheny County

Black-crowned Night-Heron is rarely reported here, so two reports are noteworthy. The first was at the Mayview Wetlands (MVW) 8/13 (B Judd), and the second was reported from Harrison Hills Park (HHP) 9/27; the first record for the park (P Hess). Another heron species rarely reported is **Great Egret**. There were also two records for this species: one 8/13 (BJ), and one 9/23 (P Brown), both at MVW.

Shorebird highlights include a **Black-bellied Plover** at Duck Hollow on the Monongehela R 9/17 (C Tague), and a **White-rumped Sandpiper** at Imperial 8/31 (W&D Shaffer). A **Sora** was found dead in along a street in Oakland 9/22 (SK).

There were five **Herring Gull** nests on the Highland Park Bridge in Pittsburgh. Two of the nests were abandoned and the other three produced four young which fledged (PB). Very rare for the county was a **Black Vulture** seen 9/26 at North Park (J Hoffmann).

The **C. Nighthawk** migration occurred during the first two weeks of Sept with several movements noted. The largest was observed 9/12 when 156 birds were seen passing over Springdale (PH). **Whip-poor-will** have been declining in the county, and last year they went unreported. A search 7/1 at SGL-203 in Wexford yielded 2 and possibly 3 birds which were heard calling (M Fialkovich, B Machesney, D Machesney).

Red-headed Woodpecker was seen at HHP 9/20 (D Lauffer); another first record for the park. **Yellow-bellied Flycatcher** was a good find at North Parl 8/27 (JH), and an **Olive-sided Flycatcher** was an excellent find at Frick Park 9/14 (W&DS), and another was seen at HHP 9/20 (PH).

A late **N. Waterthrush** was well studied at Schenley Park 9/24 (PH). A **Brewster's**, a **Connecticut**, and a **Mourning warbler** were the highlights of the fall migration count at HHP 9/19 (PH). A Connecticut Warbler was found dead (apparently from striking a window) in Bradford Woods in the n.w. part of the county the week of 9/14 (*fide* JH).

Armstrong County

Mark McConaughy's McVile hawk watch yielded the bulk of this quarter's reports. A count of 118 **Broad-winged Hawk** on 9/18 was a county record. Shorebirds were reported only at Keystone Res. during the period; despite the exposed mudflats, numbers there were disappointing. Lack of consistent data for *Armstrong* is an ongoing problem.

Bedford County

Mike and Laura Jackson reported 100+ **C. Nighthawk** staging and heading south in Black Valley at 1715 h. on 8/25. They witnessed similar migration on 8/24 and 8/27.

Berks County

The high count of breeding **Pied-billed Grebe** at Glen Morgan L. (GML) was 20 ad. and 15 chicks 7/10 (K Lebo). At L. Ontelaunee (LO) an ad. was seen 7/6, and what appeared to be a "family group with an ad. and 2 mostly grown young" 9/7 (K Knight). This is interesting because a pair was observed mating 4/10, and birds were seen last quarter till 6/21 (M Spence). Nesting occurred at LO in 1968, when a pair was seen with downy young in late June (Earl Poole, MS). Another Pied-billed was at Nehf's ponds on Mt. Rd. near Eckville 7/17 (M Monroe).

An imm. **Tricolored Heron** was discovered in the LO backwaters 9/6 (J Eckert, m.obs.) and stayed till 9/20. There is a handful of previous county records, either flyovers or birds seen a day or two. The only report of **Cattle Egret** was of 7 roosting at Green Hills L. 7/27 (KL).

In their second year of nesting at GML, **Ruddy Duck** produced 2 broods, with 2 ducklings in one and 5 in the other 7/10 (KL). On 7/25, the ducklings had been deserted by the hens, with 1 by itself and 2-4 others together at the edge of the phragmites (R Keller). Males were actively courting females, which dived to evade them. Subsequent visitors reported a total of 14 ad. and imm. till 9/19.

Osprey and **Bald Eagle** were seen most of the summer at the larger lakes. At Blue Marsh L. (BLM), 29 Bald Eagles were counted during Sept., mostly from the new State Hill Boat Launch Hawk Watch (H&J Silagy). **Sharp-shinned Hawk** seen in District Twp July-Sept. (C Elwell) raise the possibility of another local nesting south of established nesting areas on the Kittatinny. The big day for **Broad-winged Hawk** was 9/18, with 3760 at Hawk Mt (MM), 3225 at BML (H&JS), 3335 at Skyline Dr., Reading (D Wood), and 1873 in Pike Twp (RK) for a total of 12,193 birds. Several **Merlin** records were clustered in mid-Sept.,

including 1 playing tag with a crow in the treetops of District Twp 9/13 (RK), 7 at HMS 9/16 (M Wlasniewski), 1 at BML 9/17 (H&JS) and 2 at GML 9/19 (KL). A **Peregrine Falcon**, perhaps a locally hacked bird, was on the Berks Co. Services Bldg. in Reading 8/5 (DW).

An ad. **C. Moorhen** was at GML 7/10 and an imm. 9/19 (KL), but there was no evidence of nesting this year. **Am. Coot** again nested at GML, with 10 ad. and 6 young 7/10 (KL). On 7/25, there were 29 imm. coots ranging in age from downy fluffballs to nearly grown (RK), difficult to count as they moved into and out of the Phragmites. From 8/22 on, 100 coots were there (KL).

An **Am. Avocet** in winter plumage stayed at a farm pond e. of Shartlesville 9/3 (JE, m.obs.) till 9/6 (KG). Birders on the scene at Water St., LO just after a thunderstorm 8/10 tallied the high counts of several shorebirds, including a record 190 **Ls. Yellowlegs** and 45 **Stilt Sandpiper** (H Lebo, KL). Another record breaker was the count of 30 **Caspian Tern** at LO 8/30 (RK). Two others were at Nehf's ponds that day (T Clauser). The previous high was 13 at LO 9/5/35 (Earl Poole).

An ad. ♂ **Rufous Hummingbird** with full glittering gorget appeared at a feeder at Keim Orchard w. of Boyertown 9/15 (J Keim) and almost immediately began chasing other birds. Local birders learned of its presence 9/30, after which many people went to see it. It was still there in mid-Nov. This was thought to be the first county record, but a previous one has come to light. In a book in his vast ornithological library, Bob Cook found a brief, forgotten note stating that Alex Nagy (former Curator of HMS) had reported a male Rufous Hummingbird at his feeder 10/3, but undated as to year. Ruth Cook contacted Arlene Nagy, who confirmed that a male Rufous had visited their feeder 10/3/85, making that the 1st county record. Welcome, Rufous II.

The **Red-headed Woodpecker** on Kauffman Rd., Oley again nested late. Adults were making repeated visits to their nest tree 8/1, a juv. was first seen 8/23, and 2 or 3 juv. were there 8/30 (RK). There were multiple reports of all 6 vireo spp., with 8 reports of **Philadelphia Vireo** alone. A major flight day was 9/11, when 1 **Warbling**, 10 **Philadelphia**, and 38 **Red-eyed** passed through HMS (MM). A **Purple Martin** at 9/26 (MM) is the latest recorded in Berks. A **Marsh Wren** was found at Peters Cr. 8/23 (MS).

Birders witnessed very large thrush flights and fallouts in Sept. At least 19 **Gray-cheeked** were identified by sight or call note 9/13-30 (D Kendall, RK). There were heavy pre-dawn flights of **Swainson's Thrush** several mornings. The largest was 9/29, when more than 700 of the 963 flight calls heard from 5:55-6:35 a.m. were the Spring Peeper-like call notes of Swainson's (RK). A **Hermit Thrush** at Baldy Hill,

District Twp. 8/20 (CE) was very early south of the breeding areas.

Warblers were localized but rich in numbers and variety--a remarkable 35 spp. and 1 hyb. were reported. The first *Berks* breeding confirmation of **Black-throated Blue Warbler** came 7/25, when KG found a female with a young fledgling at SGL-110. He has seen territorial males there for years. The juv. **Pine Warbler** reported in June near Auburn (2nd confirmed nesting) was seen again 7/12 (KG). Uncommon migrants included a **Golden-winged** at HMS 9/19 (MM), an F2 male "**Brewster's**" in District Twp. 8/22 (RK), 5 reports of **Orange-crowned** 9/3-28 (RK, DK, MM) and a **Yellow-throated Warbler** in District Twp. 9/27 (CRE). The large flight at HMS 9/11 included 9 **Orange-crowned**, 23 **Nashville**, 11 **Black-throated Blue**, 26 **Blackburnian**, and a **Connecticut**, as well as 16 **Rose-breasted Grosbeak** (MM).

A possible **Summer Tanager** was seen 10/9 (B Pounder); details have been sent to PORC. A heavily streaked juv. **Dark-eyed Junco** seen by itself on the Kittatinny Ridge near the Port Clinton fire tower 8/1 (KG) was almost certainly hatched nearby. A flock of 40-70 **Bobolink** settled into a sorghum food plot at BML 9/9-29 (HJS et al.), a long stay for these birds. A cluster of **Blue Grosbeak** sightings around Bern Twp and BML in July and Aug. gave the strongest evidence of breeding to date. At least 4 pairs of ads. were seen, 2 of them accompanied by imm. (HJS et al.). In one case, an ad. male was seen repeatedly carrying food into a weedy patch. On 9/15, 5-6 birds were found in a marshy flood retention basin at BML (HJS). Elsewhere, a single male was at Nehf's ponds 8/9 (KL). No nest has been found and no ad. has yet been seen actually feeding a juv.

EXOTIC: Of all the remarkable records sent in this quarter, the most exotic has to be Jim Brett's account of an Emu running and feeding in his meadow near HMS in Aug. Probably the same bird walked into the gate at HMS one day a few months ago, an odd sight indeed.

Bradford County

Hooded Merganser were seen on the same pond in Terry Twp where they were seen with young two years ago.

Ron Young found an **Orchard Oriole's** nest with young in Sheshequin.

Bucks County

Highlights include: 3 **Am. Avocet** were at Penn Manor on 8/11 (J Hartley). They were seen around noon and again at the end of the day. This is the 3rd report in the county, the last was in 1978. A **Western Kingbird** was at Plumstead from 9/11 to (at least) 9/17 (B Webster). The bird was very cooperative and

seen by quite a few. This was the 5th record, the last one was in 1979.

Other highlights: 6 early **Ring-necked Duck** were at Peace Valley (PV) on 8/ 11 (I Baldoch). 59 **Bald Eagle** were reported during the SouthEastern Pa. Trapline (SEPT) hawk count 9/13-21 at the *Bucks* stations. There were 4 additional reports at PV. Also during SEPT there were 16,361 **Broad-wing Hawk** reported. **Virginia Rail** nesting was confirmed at Quakertown Swamp in July (R Hendrick).

A **Pectoral Sandpiper** was reported from 9/13-24, and a **Caspian Tern** from 9/13-18 at Core Creek (G Carmichael). Two **Forster's Tern** were at PV on 8/3 (I Baldoch). Three **Red-headed Woodpecker** were at Revere from 9/11-26 (S Farbotnik). A **Yellow-bellied Sapsucker** was at PV on 9/26 (K Kitson). **Pileated Woodpecker** were reported at Solebury, Pipersville and Bowmans Hill. An **Olive-sided Flycatcher** was at Revere from 9/1-8 (SF).

Philadelphia Vireo were at PV 8/22 (C Crunkleton), Chalfont 9/6 (R French), and Revere 9/11 (SF). **Marsh Wren** were at Bradford Dam 8/27 (R French) and PV 9/21 (T Wurtenberger). A **Prothonotary Warbler** was at Shaffer L. on 8/23 (N Davis). The nesting **Grasshopper Sparrow** were at PV until 8/15. **Lincoln's Sparrow** were at Chalfont 9/9 (R French) and PV 9/25 (TW). There were **Blue Grosbeak** reported nesting at Van Sciver L (B McNaught) and Bedminster (D McClintock).

Butler County

A **C. Loon** and **Ring-necked Duck** remained through the quarter's end after apparently summering at L. Arthur (D Yovanovich), where other highlights were 2 **Great Egret** for a week in early Aug (v.o.) and a subadult **Bald Eagle** 9/17 (D Darney, DY). **Sharp-shinned Hawk** is rarely confirmed breeding in *Butler*, so the report of 2 young fledged from a nest at Middle Lancaster (F Lochner) was noteworthy. Single **Merlin** visited Moraine SP 9/9 & 9/27 (DD, DY).

A **Virginia Rail** with 2 young were a surprise at the L. Arthur observation deck in late Aug (P Hess, DD, DY). 2 ad. and 1 young **Sandhill Crane**, undoubtedly the neighboring *Lawrence/Mercer* family, visited Slippery Rock Twp during the quarter (G Wilhelm). The annual staging of **Killdeer** migrants at Slippery Rock Univ. peaked at 250 in late Aug (GW). L. Arthur and L. Oneida combined for 15 shorebird species, best variety in years; leading the list were 2 **Willet** at L. Oneida 8/10 (DY) and totals of 2 **Western**, 2 **White-rumped**, 4 **Stilt sandpiper**, and 4 **Short-billed Dowitcher** (v.o.).

For the second consecutive summer, a webworm outbreak in n. *Butler* brought a major influx of cuckoos (GW); both species appeared in higher than usual numbers, while last year's invasion mainly involved

Yellow-billed (*Pa. Birds* 11:174). **Whip-poor-will** is now a true rarity in the county, with one near Glades 9/6 (D Smeltzer) the lone report. Two unusual summer records were an ad. **Yellow-bellied Sapsucker** 7/23 near Lardintown (M McConaughy) and an **Olive-sided Flycatcher** 7/18 at Glades (J Hoffmann). **Am. Pipit** arrived rather early, before mid-Sept, at two locations (PH, D Hess, GW). Tops among warblers was a "**Brewster's**" at Jennings Nature Reserve 8/28 (DY). A single **Evening Grosbeak** at Slippery Rock Park 9/1 (D Oesterling) was the only "northern finch" reported.

Cambria County

Thanks to Judy Johns for her data from the southern part of the county showing nesting **Dark-eyed Junco**, which updates our Breeding Bird Atlas and proves there is indeed bird life beyond Prince Gallitzin SP!

Chester County

Green Heron was seen all quarter in Willistown Twp (T Fernandes). 30-40 **Cattle Egret** were at Doe Run 8/4, 16 (B Barber). Two imm. **Bald Eagle** seen at Pocopson 9/22 (H Houston). A **Red-shouldered and Broad-winged hawk** 9/13 were both in Willistown Twp (TF). A **Merlin** was in Honeybrook Twp 9/21 (B&P Hurlock).

A **Spotted Sandpiper** was along Sturble Trail 7/25 (J White). 15 **C. Nighthawk** on 8/22 and 30 on 8/28 in Willistown Twp (TF). Over 30 **Ruby-throated Hummingbird** at Longwood Gardens on 9/22 (N Bernhardt). An **Acadian Flycatcher** and **E. Wood-Pewee** were on Struble Trail 7/25 (JW).

Warblers in Willistown Twp included: **Black-throated Green** 9/5; **Yellow-throated** 9/5; **Black-and-white** 9/13 (TF).

A ♀ **Purple Finch** was in Honeybrook Twp 9/15 (B&P Hurlock).

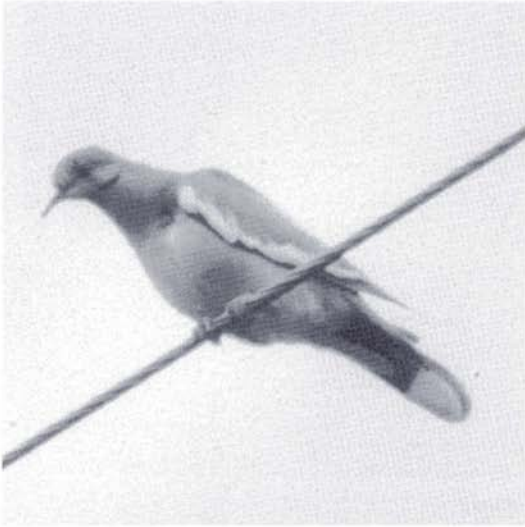
Clarion County

Peregrine Falcon at Brady's Bend (BB) on 9/20, a nice adult. This is the new Hawk Watch on the Allegheny R. at Brady's Bend. Since about 35% of the view from here is *Armstrong* across the river and since the bird came directly at us (J Fedak, M Buckwalter) from across the river, it's safe to say this bird can be counted there too. I believe this is a first for *Clarion* (*Armstrong?*)

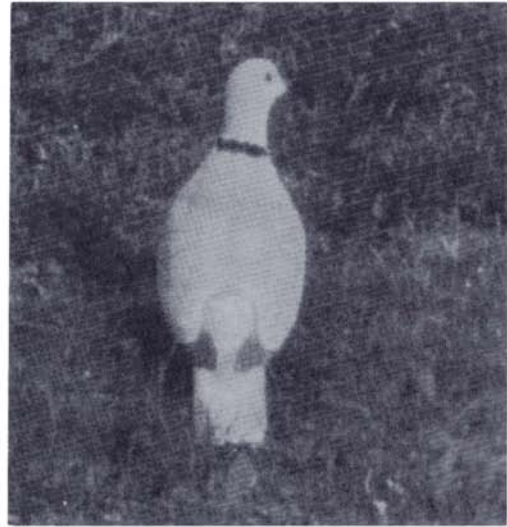
One **Cinnamon Teal** in eclipse plumage on 9/21 at Curllsville (JF, MB). This individual, which wasn't that hard to pick out as "different," was with a flock of about 130 **Blue-winged Teal**. If documentation is approved, this is a *first county record*.

One **Bewick's Wren** at BB from 9/29 through 10/3 (JF, L Swackhamer and a few other observers).

PHOTOGRAPHIC HIGHLIGHTS



White-winged Dove, Wayne Twp., *Schuylkill*, 6/29/1998.
Photo by Scott Weidensaul.



Eurasian Collared Dove, Hidden Valley Golf Course,
Schuylkill, 4/18/1998. Photo by Ann Marie Leibner.



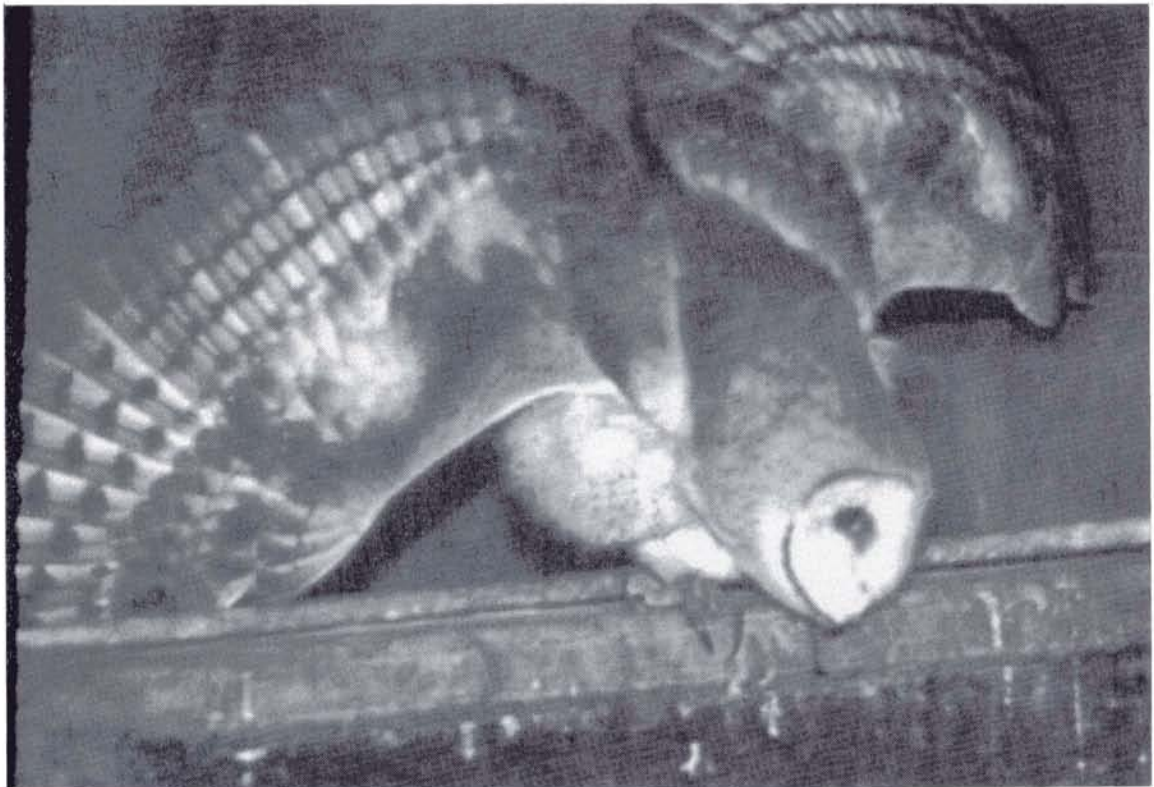
Western Kingbird, Plumstead, *Bucks*, 9/12/1998. Photo by
Ann Lessel.



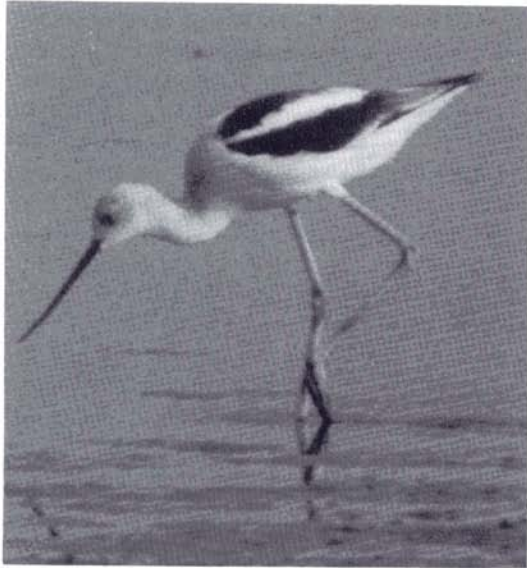
Dickcissel, Newburg, *Cumberland*, 7/3/1998.
Photo by Rick Wiltraut.



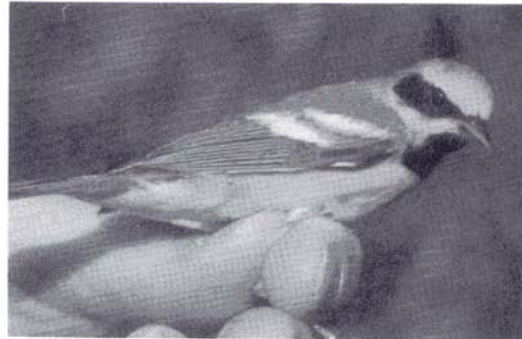
Barn Owls, Van Wert, *Juniata*, 9/21/1998. Photo by Wayne Laubscher.



Barn Owl, Mackeyville, *Clinton*, 9/10/1998. Photo by Wayne Laubscher..



American Avocet, Green Lane Reservoir, *Montgomery*, 9/13/1998. Photo by Rick Wiltraut.



Lawrence's Warbler, Powdermill NR, *Westmoreland*, 9/3/1998. Photo by Robert E. Shaw.



Sabine's Gull, Presque Isle State Park, *Erie*, 9/24/1998. Photo by Gerry McWilliams.

John was able to tape the call. Pending clearance of the documentation, this is also a *first record*.

At least 2 **Clay-colored Sparrow** were first observed on 7/17 at Mt Zion (JF et al.). Last seen 7/25. Photographs and documentation have been submitted. If approved, this also is a *first county record*.

Thanks to John Fedak whose birding industriousness and skill has resulted in the likely addition of four new species to our county list. And thanks to the other observers called in to verify these unusual sightings.

Clearfield County

Coverage was somewhat sparse, with all of the reports coming from the second half of the quarter. Two **Yellow-breasted Chat** were a nice find at the 5-Points area on 9/1 (D Gobert, J Salvetti). This fall the lake at Parker Dam SP was drawn down for dredging. The resultant mud flats produced 4 **Solitary Sandpiper**, 1 **Pectoral Sandpiper**, and 3 **Am. Pipit** on 9/15 (E Zielinski). Just about any migratory shorebird is noteworthy here.

Clinton County

On 8/13 an ad. **Bald Eagle** was seen by many on an island in the Susquehanna R. at Lock Haven (J Runkle). Probably the most noteworthy report was that since the last quarter a family of **Barn Owl** was nesting in the Mackeyville area on a farm and apparently fledge 5-6 young. This was the first county report since 1993 (W Vonada). Other reports include: 1 **Ruffed Grouse** at Pine Mt. on 8/3 (G&P Schwalbe). A flock of 8 **Wild Turkey** at Caldwell on 7/21 (W Laubscher). A mixed flock of early migrant warblers on 7/26 included 2 juv. **Mourning Warbler** at Swissdale (WL). **Song Sparrow** on 9/9,23 at Woolrich (M Craig). **Pileated Woodpecker** at Pine Mt. on 8/6 (G&PS). **Hairy Woodpecker** at Pine Mt. 8/3 (G&PS). And 1 **Osprey** at McElhatten on 8/28 (B Zbegner).

Columbia County

Typically the rare, unusual, or somewhat unique birds rate the highlight page but this quarter recognition of the apparent better than normal output of **Great Blue Heron**, **Sharp-shinned** and **Cooper's hawks**, **Am. Kestrel**, **Wild Turkey**, **Veery**, **Wood Thrush**, **Am. Robin**, **E. Bluebird**, **Morning Dove**, **Blue-headed Vireo**, **Gray Catbird**, **Brown Thrasher**, **N. Mockingbird** and **Scarlet Tanager** is noted. (D Gross, S Killam)

C. Egret were, well, just that: common! Ones and twos were in the Jonestown area, along the Susquehanna R, and at Briar Creek Res.

The Berwick **Bank Swallow** colony was an uncountable mass of swirling feathered bodies during the last two weeks of July. Many young were still "underground" into the second week of Aug perhaps

confirming that the cool early part of June had delayed serious nesting attempts. Last year all had departed by the end of July.

A **Lincoln's Sparrow** in Sept in the Rhorsburg area was a nice find (DG). Three singing **Whip-poor-will** remained at SGL-55 into Aug. The increasingly loud evening chorus of katydids finally drowned them out (SK)!

Crawford County

A **Ls. Scaup** at Woodcock L. 8/9 and a **Ruddy Duck** at Pymatuning's Miller Pond 8/8 were most unusual that early. A good estimate of 16 hatched **Bald Eagle** in w. Pa. and several sightings of **Osprey** is good news. A **Peregrine Falcon** noted at Pymatuning 8/23 seemed early also.

Shorebirds were not the best in several years, mainly due to high water at Pymatuning L. Woodcock L. proved much better as water levels were lower there.

A **Western Meadowlark** near Hickernell, e. of Conneautville, found by Clare Nicolls was the find of this period. Several observers found it in the following weeks.

Dauphin County

The 18 spp. of shorebirds observed along the Susquehanna R. from Harrisburg to Haldeman Is was the high point. The most notable included: 2 **Stilt Sandpiper**, first reported 8/8 from Wormleysburg (M McConaughy); a **Baird's** and **Western sandpiper** were found 9/1 and a Baird's and **White-rumped sandpiper** were seen from the W. Fairview boat ramp 9/18 (R Koury); an **Am. Golden-Plover** was observed 9/1 and 3 were present at the same location 9/26 (RK); a **Dunlin** was discovered on the islands from W. Fairview 8/27 (RK); and a **Short-billed Dowitcher** was found on Haldeman Is. 9/23 (S Bills).

While scoping shorebirds other visitors or migrants were discovered along the river. A **Little Blue Heron** was first observed 8/28 (R Williams) and a **Sora** was reported 9/21 (G Randolph). Mid-Aug brought **Forster's** and **Black terns** (MM, RK) while **Caspian** were present from mid-Aug through Sept (J Renninger, RW). As expected the over flights of **C. Nighthawk** occurred the last week of Aug and the first week of Sept with 25+ being reported from Wildwood L 9/2 (S Lockerman). A **Franklin's Gull** was reported on the Central Pa. Birdline for 9/5 but was not verified or documented.

A lone **Am. Coot** may have "over-summered" among the islands near Harrisburg but by the end of the quarter the "over-wintering" flock was beginning to gather along the Wormleysburg shoreline. Both **Common** and **Red-breasted mergansers** were observed in mid-summer from W. Fairview, 7/17 (GR) for the former and 8/8 (MM) for the latter. By late Aug

Green-winged and Blue-winged teal, Gadwall, and Pied-billed Grebe had returned and the first **N. Shoveler** was reported before the end of Sept.

The enjoyment of watching **Peregrine Falcons** through much of the summer in downtown Harrisburg was reported (SL). Two **Golden Eagle** were spotted flying over Blue Mt 9/24 (GR) and there were a number of **Bald Eagle** sightings from Harrisburg to Haldeman Is. during the quarter.

Other interesting sightings included: an **Olive-sided Flycatcher** 9/5 and a **Philadelphia Vireo** 9/9 both found in Stony Valley (GR). a **Whip-poor-will** was seen near Elizabethville 9/15 (S Weidensaul); 33 **Wild Turkey** were counted 9/20 (J&J Funck) on their property where a black bear paid a visit earlier in the summer; an **Am. Pipit** was found on Haldeman Is/ 9/23 (SB); and a **Lincoln's Sparrow** was reported 9/26 (GR).

EXOTIC: A **Black Swan** appeared in the river near Marysville 8/15; this may be the same individual that shows up on occasion.

Delaware County

The quarter was characterized by above-average temperatures and below-average rainfall. A total of 175 spp. was reported, including a few unusual species such as **Bufflehead, N. Goshawk, Golden Eagle, Am. Golden-Plover, Baird's Sandpiper, and Dickcissel. Least Bittern** were found along Darby Creek (DC) all quarter (A Guarente, J Miller). **Wood Duck** continue to thrive in the DC area with 100+ there 9/7 (AG). An unusual midsummer find at Springton Res (SR) was a lone ♀ **Bufflehead** 8/20 (N Pulcinella). An early **N. Goshawk** was observed flying over Rose Tree Park (RTP) 9/23 (J Lockyer, T McParland).

The peak **Broad-winged Hawk** flight was noted 9/12 when 119 birds were counted over Springfield (SP) (M Guenther). Very unusual were three separate **Golden Eagle** found 9/23 (m.ob.). The extensive mudflats along DC and the mitigation area of John Heinz NWR at Tinicum produced 19 spp. of shorebirds. A single **Am. Golden Plover** 9/19 (AG) and single **Baird's Sandpipers** 9/3 (J Freiberg) and 9/7 (NP) were highlights. Other sightings of note were 52 **Ls. Yellowlegs** 9/19 (AG), 25 **Western Sandpiper** 8/2 (NP), an early **Pectoral Sandpiper** 7/6 (T Floyd) and 14 **Stilt Sandpiper** 9/7 (NP). **Semipalmated Sandpiper** peaked on 8/2 when 1500 were counted (NP). A single **Sanderling** was seen along the Delaware R. in Essington (ESS) 8/29 (AG, JL, NP).

A high count of 88 **Forster's Tern** was noted on 8/30 (S Johnson). Unusual among the many **Forster's** was a single **C. Tern** 8/9 (TF). Two **Black Tern** were observed flying along the Delaware R in ESS 8/26 (NP). Peak **C. Nighthawk** numbers were recorded on 8/22 when 74 were counted over Haverford College

(SJ). An early **Yellow-bellied Sapsucker** was found in Media 9/26 (S Edwards). A single **Yellow-bellied Flycatcher** was observed in Swarthmore 9/7 (H McWilliams). Over 300+ **Purple Martin** nestlings were banded during July (JM) from colonies in Glen Mills, Chadds Ford, and Aston. Twenty-nine species of warbler were recorded. Some of the better finds were **Tennessee** 9/8 at Ridley Creek SP (RC) (AG); **Cape May** 9/8 at RC (AG); **Pine** 9/19 at Tyler Arboretum (AG); and **Worm-eating** 7/18 at RC (AG) and 9/11 at Chadds Ford (NP).

A ♀ **Dickcissel** was observed 9/26 near Wawa (AG, NP). Single **Savannah** and **Lincoln's sparrows** were found at DC 9/13 (AG). Both **White-throated Sparrow** 9/20 (NP) and **Dark-eyed Junco** 9/26 (SE) were early arrivals. A pair of **Blue Grosbeak** was present all quarter at Chadds Ford (NP).

Elk County

9/29 - Sitting drinking my 2nd cup of coffee, watching my feeders, I noticed my first of the season **Dark-eyed Junco**. I thought this would be a good time to start my 1998-99 feeder journal. Reached down to get my notebook and out of the corner of my eye I noticed it...my resident **Sharpie** got my first of the season junco for his breakfast.

Dave Sorg had his last **Ruby-throated Hummingbird** 9/7, about normal time. Also he found an **E. Kingbird** nest near the St. Marys Res. Ted Grisez from Warren called about a **Double-crested Cormorant** at the Quehanna Area and 2 **Pied-billed Grebe** at Twin Lakes.

Erie County

Highlights from Presque Isle SP include an **Eared Grebe** (no details) 9/4-5 (R Stringer, M Fialkovich); a **Hudsonian Godwit** 9/2-4 (D Snyder, J McWilliams); and a **Sabine's Gull** found dead on Beach 1 on 9/24 (*fide* Ann DeSarro; see photo). A **Red Knot** was there 8/27 (DS).

Fayette County

Two **Great Egret** were at Mill Run Res (MRR) 7/29 (J Hoffmann, D Hoffman). **Mute Swan** observations continue at Deer L. where 1 was seen 8/1 (MM). An **Osprey** was seen at MRR 9/3 (T Vechter). A nice count of 11 **Solitary Sandpiper** wsd at Filbert L. 8/1 (MM).

Although resident, the **Barred Owl** is seldom seen, but 3 were observed at Ohiopyle SP (OSP) 9/28 (W&D Shaffer).

A **Yellow-throated Vireo** was present at OSP 9/27 and a **Lincoln's Sparrow** was a nice find there 9/28 (W&DS).

Franklin County

Green-winged Teal have been observed several

times at a farm pond during the quarter but nesting sites have not been located.

The sighting of a **Baird's Sandpiper** 8/30 at a local hatchery was a highlight. It was observed one day by C Garner and D Gearhart along with other sandpipers. A **Bald Eagle**, **Pectoral Sandpipers**, **Least Sandpipers**, and a **Short-billed Dowitcher** were also observed at the same location 8/16. The sighting of 2 **Black-bellied Plover** (fall plumage) was another rare sighting at the Greencastle Res 9/20 and one of these birds was still there 9/30.

Cerulean Warbler were observed on several occasions through mid-Aug along the east side of the mountains near Upper Strasburg indicating a possible nesting area, but nest sites have not been found.

Fulton County

Nine **Bald Eagle** were observed at Tuscarora Mt. 9/15 (K Gabler). To my knowledge this was the highest daily count ever at the "Pulpit."

Greene County

Summer Tanager heard singing on a neighboring farm on different days in early July.

Huntingdon County

A fairly routine quarter highlighted by a good warbler movement in September.

Among unusual sightings were very early, presumably post-dispersal **Great Egret** (no breeding in the county) in Stone Valley 7/5 (G Grove) and a **Blue-winged Teal** 9/3 near Huntingdon (D Kyler).

The peak day for **Broad-winged Hawk** movement at the Stone Mt watch was 433 on 9/15. The **warbler** highlights included 18 **Cape May** on Stone Mt 9/25 (N Bolgiano) and a **Connecticut** there on 9/13 (GG).

Indiana County

Early July yielded two reports of northern species. Greg Cook watched a **Red Crossbill** flying over the beach area of Yellow Creek SP (YC) calling repeatedly on 7/3. On 7/8, 3 **Pine Siskin** turned up at the Lamer's Nolo feeder.

Dry periods throughout the summer yielded extensive mudflats at YC, so the season brought a good variety of shorebirds through our county. The first highlight of the season occurred 7/17 when Tom Fetterman was mowing grass at YC and noted an **Am. Avocet**, a 2nd county record, standing on the beach. He immediately alerted other Todd Bird Club members who flocked to the park to see the bird (GC, B Fetterman, Je Fetterman, E Fowles, G Lamer, D Lauffer). Two county firsts, both long overdue, on 8/10: 2 **Western** and 2 **Stilt sandpipers** (GC, K Byerly, K&M Jackson, D Jacobs, GL, DL, J Salvetti, G Syster)—found by GC whose summer job at the park

really paid off that day!

There were reports of 7 **Gray-cheeked** and 34 **Swainson's thrushes** this fall—more than in recent years. **Vireos** and **warblers** moved through our area in small numbers, but Blue Spruce CP consistently produced a good variety of migrants.

Jefferson County

Thanks to all who contributed since I was away most of the quarter. A **Carolina Wren** was found at Callen Run (I Hartzler). Ian has done a great job at this site, which is an Important Bird Area in Pa. The majority of the birding seemed to be on the FMC. Several *firsts for the county* were discovered, most in Clear Creek SP/SF (CC) or near Munderf. A **Yellow-bellied Flycatcher**, **Yellow-throated Vireo**, and **Philadelphia Vireo** were seen in CC and just north of there an ad. **Clay-colored Sparrow** was observed in a migrating flock, which included 43 **Chipping Sparrow** and some warblers.

A **Great Egret** was found by the Greeley family near Brookville and was still present 9/19, but not seen afterward. Another **Black Vulture** was found near Brookville (D Hoffman). Maybe this species has expanded up to here, but no nesting has been observed. Warblers had a much better showing during fall migration with at least 23 spp. observed.

Juniata County

The quarter was hot and dry. The **Western Meadowlark** reported last quarter was last seen on 7/2. Noteworthy were 13 **Barn Owl**, including 7 owlets on two farms approx. ½-mile apart. The 57 **Broad-winged Hawk** seen 9/22 were all seen in one hour (1630-1730 h).

Large flocks of **swallows** were seen in Aug. and into Sept. Also, several good **warbler** waves in late Sept., including **Cape May**, **Blackburnian**, **Pine**, **Magnolia**, **Blue-winged**, **Golden-winged**, etc. Also 1 **Philadelphia Vireo** on 9/30.

The 65 **C. Nighthawk** seen on 8/30 were unusual for this area. The **Wood Duck** population has increased dramatically the last 3 years, as the 143 counted on 9/17 indicates. **Bald Eagle** were seen 8/25+.

On 9/7 my wife and I took a float trip on the Juniata R. where we saw an **Osprey** catch a small sunfish, fly to a dead snag, and eat the fish. After eating it would fly across the water at approx. 5-10' over the water with its legs dangling, then drop down and drag its feet through the water for maybe 10-20' at a time. He did this repeatedly, at least 8-10 times, as if trying to rinse something off its claws. I've seen **Osprey** catch and eat fish many times, but have never seen this behavior. What was it doing?

Lawrence County

Good counts of **Carolina Wren** (12) and **Turkey Vulture** (13) came from the New Castle area on 9/12 and 9/19 respectively (B Dean).

Lackawanna County

Approximately 160 spp. were recorded. Regular reporting from birders in the Beaver Cr (BC) area near Springbrook and the Lackawanna SF were most helpful. A **Great Egret** was seen s. of Falls on the FMC day 9/19 (R Koval). 2 **C. Merganser** were also reported from this same area on 9/19 (RK). A **C. Raven** was seen from downtown Scranton 7/26, as well as 2 **Purple Martin**. A **Swainson's Thrush** was at BC on 9/5 (G Czulada). A **Wilson's Warbler** was observed at BC on 9/5,12 (GC). A nice number of **Bobolink** was reported from Lackawanna SP on 7/19 (RK).

Lancaster County

Shorebird migration on the Conejohela Flats was quite productive. Highlights included all five spp. of peeps, both **Red** and **Red-necked phalaropes**, and several reports of **Buff-breasted Sandpiper**. The Red Phalarope was seen 8/19 (P Robinson) and the Red-necked Phalarope from 8/14-16 (†PR, T Garner, E Witmer).

Lebanon County

Snow Geese were at Middle Creek WMA (MC) all quarter. A pair of **Tundra Swan** were at Reistville on 8/21, a full two months early. The pond was carefully checked for Trumpeter Swan.

Broad-winged Hawk set a new one-day record at Second Mt. on 9/18 with 4600+ passing over in 35 minutes. A **Western Sandpiper** was found at Reistville on 7/18 and a **Baird's Sandpiper** there on 8/14. A **Black Tern** made a brief appearance at Memorial L on 8/22 for only the 4th county record.

A **Yellow-bellied Flycatcher** was at SGL-145 on 8/23 and a **Least Flycatcher** there 9/13. **Philadelphia Vireo** set a new high, with 3 found at SGL-145 on 9/13. A very large flock of **Tree Swallow** was s. of Annville on 9/23. The flock was two-miles long and ±1-mile wide. I estimated 100,000 birds.

A **Gray-cheeked Thrush** was found 9/13 and a **Swainson's Thrush** on 8/30 was early by 12 days. Both at SGL-145.

No breeding Worm-eating Warbler or N. Parula found this year. A **Prairie Warbler** set a late date by 12 days on 9/13. A **Mourning Warbler** was found on 8/30. And 3 **Wilson's Warbler** were found 9/13. All at SGL-145. A new breeding location for **Dark-eyed Junco** was found above Mt. Gretna on 7/22 when an ad. and imm. were found. This is the 2nd breeding record.

Luzerne County

This quarter seemed better than average. A couple of rarities and a few early sightings were surprising. Although many birds were not reported which certainly breed in *Luzerne*.

Council Cup Hawk Watch site produced a **Black Vulture** on 9/19 (Frank Bonnano). The migration flight overall appeared to be about average. The big day for **Broad-winged Hawk** was 9/18 when 1158 were counted. **Bald Eagle** sightings were a fewer compared to last year. Autumn Pfeiffer observed very early **Snow Goose** 8/29 and 4 early **Tundra Swan** 8/24 while counting hawks.

Well north of Council Cup, the **Peregrine Falcons** remain at Plains. Bob Wasilewski reported some interesting dinner items grasped in the talons of these magnificent birds of prey to include: Rock Dove, Starling, song bird species, warblers, small mammals, flying insects, large moths, and bats. The Peregrines did not prey on the local waterfowl. Perhaps this winter should prove otherwise.

Very uncommon was a **C. Moorhen** at Lee Swamp during the FMBC 9/19 (J Shoemaker, S Goodwin, BW) and 1 at Francis Slocum SP 9/21 (R Koval) which stayed for a few days. Not reported for a few years was **Am. Golden-Plover**; 1 at Plymouth Flats 9/13 (RK) and as many as 4 on the Susquehanna R near the Forty Fort Airport 9/20 (JS). Historically, this is a reliable location and needs to be checked more frequently during migration. Shorebirds were not abundant this fall. Plains Flats was dry as a bone this summer, although Plymouth Flats had some exposed shoreline and mudflats. Highlights were **White-rumped Sandpiper** 7/19; **Short-billed Dowitcher** 8/23 (JH,RK); and a **Long-billed Dowitcher** 7/17 (RK), which is a 1st county record.

Marsh Wren was reported at several localities. High numbers of **Carolina Wren** this summer as reported by (JS). After several mild winters it appears that this southern species is showing signs of recovery. Twenty-six species of **warbler** were reported this quarter. Not reported but certainly were breeding in *Luzerne* were Blue-winged, Golden-winged, Cerulean, N. Waterthrush, Worm-eating, and Hooded. Highlights found were **Orange-crowned** at CC 9/17 (RK), 2 **Kentucky** at Hobbie 9/14 (AP), and **Connecticut** at CC 9/14 by the duo of Sue Baron and Mark Blauer.

At least 114 spp. were recorded during the FMBC. Late discoveries included **Black-crowned Night-Heron**, **C. Nighthawk**, and **Yellow-billed Cuckoo**. The surprise find happened to be a ♀ **Summer Tanager** discovered at Hobbie 9/19 (AP). If accepted by PORC, this will be only the 2nd county record.

Not reported this quarter were Orchard Oriole, Vesper and Grasshopper sparrows.

Lycoming County

Interesting sightings included 1 **C. Loon** on the Susquehanna R. near Montoursville, observed and heard yodelling by many at the Lycoming Audubon summer picnic on 7/22. Four young **Bald Eagle** were seen in the Pine Creek Valley by Ed & Tink Reish on 9/29. Only the ♀ **Peregrine Falcon** has been seen on the Genetti Hotel in Williamsport this quarter. (M Kuriga, E Reish). It is not known what has happened to the male, which had apparently bonded with the female and had been seen regularly with her during the previous months. **Whip-poor-will** continued to be heard up to 7/21 in the Rider Park area (G Plankenhorn). One ♀ **Rusty Blackbird** was observed at a farm pond/wetland in Wolf Twp on 9/28 (W Egli).

Mercer County

The **Osprey** nest on the steel power company tower near the Chestnut Run swim beach at Shenango R. Res. (SRR) produced 3 young, and an adult was seen perched next to the nest as late as 9/20. This is the first nesting for Osprey in the SRR watershed. At SRR on 7/5 there was a very early south-bound **Short-billed Dowitcher**. Also there 7/5 was a **Virginia Rail**, which is probably the 1st record for this sp. from the reservoir area.

The water level was down 4-5' at SRR and that certainly helped 9/23 to be a shore bird bonanza day for Ted Floyd and Paul Hess. Their highlights were: 5 **Black-bellied Plover**, 1 **Am. Golden-Plover**, 5 **Semipalmated Plover**, 240 **Killdeer**, 2 **Gr. Yellowlegs**, 72 **Ls. Yellowlegs**, and the following **sandpiper**: 3 **Spotted**, 2 **Semipalmated**, 1 **Western**, 4 **Least**, 20 **Pectoral**, 3 **Stilt**, and 1 juv. **Long-billed Dowitcher**. 1 **Ruddy Turnstone** 8/30 and 9/2, and 1 **Baird's** were added to the impressive list by S Butcher, S McCarl, L Wagner, C Tague, I Tague.

A **Ruby-throated Hummingbird** was found at Williamson Rd on the very late date of 9/23 (Troyer family). The chimneys of the Hickory schools continue to be major roosting sites for **Chimney Swift** in Sept.

Perhaps the early departure 9/30 of **E. Phoebe** from a site at Hermitage was connected to the fact that the pairs' first nesting attempt was destroyed by a gray squirrel, and the second by cowbird parasitism. 20 spp. of **warblers** were recorded.

A late, but noteworthy report on **N. Mockingbird** from B Dean and N Rodgers: on 5/27 they observed 2 ad. feeding 2 imm. on Janowski Rd. in an Amish area. Although **N. Mockingbird** is recorded occasionally, nesting has not been confirmed in the county until now.

The final comment is on the nut crop. Last year acorns and hickory nuts were almost non-existent. This year there is a bumper crop with food for all.

Mifflin County

This has been such a special busy quarter in our backyard area, which includes the farm meadow, fields and woodlot with the meandering stream. The quiet which usually follows the June nesting activities never happened. **Song** and **Chipping sparrows**, **Brown Thrasher**, **Gray Catbird**, and just one pair of **N. Mockingbird**, **Red-eyed Vireo**, **E. Phoebe**, **E. Wood-Pewee**, and several **Am. Robin** families and **N. Cardinal** are a part of the wake-up chorus early each morning. **House Wren** built in 2 boxes this season and the **Carolina Wren** reared 5 juveniles. We hunted for quite awhile to find that their home was a large nest in an old laundry tub which was stored in the carport. It was a perfect nest in a secluded place. **Chickadee**, **Tufted Titmouse**, **Downy**, **Hairy** and **Red-headed Woodpecker** and **White-breasted Nuthatch** brought young to feeders and taught them to open sunflower seeds and to visit the suet feeder. **E. Bluebird** fledged 16 young at various boxes and are very vocal as they gather the insects from the grassy back orchard. It was a pleasure to wake up each morning with such zesty chorus drifting through the open windows. Some nights the **Song Sparrow** and the **Mockingbirds** sang and usually a **Cardinal** would chirp an ending few notes. **E. Screech-Owl** juveniles began practice in mid- Sept.

We began hawk watching on Jack's Mountain during the last week of Aug.

Gloria Bickel introduced us to Herb and Nancy Graves, who live near Reedsville. They live in a preserved woodlot of old oak growth forest. Their yard is a pleasure. Feeders for all species of birds and mammals are within close proximity of a screened observation dining area. We excitedly watched the variety of birds and squirrels and especially the real treat of seeing the two parent **Red-Headed Woodpeckers** bring the two juveniles to the feeders. Many folks enjoyed this spectacular event many times. Thanks to the Graves. Gloria had sightings of **Red-Headed Woodpecker** at 4 different sites, and Nora Torquoto had a sighting of 11 or 12 **Red-headed Woodpeckers** in mid Sept. These sightings are probably all within a 6-mile radius. Ron Singer had 1 sighting on Jack's Mt. in Sept. Matthew Bickel had observed **Sharp-shinned Hawks** near his backyard, and he was very fortunate to see them fledge and they answered his calls as he communicated to them.

Hummingbird counts were very good. Dennis Yoder of Pine Glen area reported sightings of **Turkey Vulture**, **Red-tailed Hawk**, and recently had **Black Vultures**. He also noted that birds fly over his area repeatedly from noon to approx 1430. At the Jack's Mt. hawk watch we usually note the lull in birds flying over. Could it be possible that they do go to the valleys and river area during the noon time hours?

Gloria had an imm. **Bald Eagle** fly over her house at Strodes Mills in mid Sept.

Monroe County

169 spp. were recorded. The majority of reports came from the following locations: The Zimmer Preserve (off of Spruce Cabin Rd in Barrett Twp) which is owned by the Natural Lands Trust. This preserve is adjacent to private properties, and permission must be granted to access this area. The Darling Preserve (off Rte 115 north of Blakeslee) which is owned by the Nature Conservancy. The Long Pond area, which is also owned by the Nature Conservancy. The Grassy Lake area near Long Pond. The Monroe Co. Environmental Education Center at Kettle Creek (near Stroudsburg). SGL-224. And Skytop Lake. In particular, a great deal of weekly reporting came in from Edie Parnum, as well as Brian Hardiman, naturalist at the MCEEC. Thanks to both of these contributors for their untiring efforts, as well as all other contributors who sent in reports from time to time. *Monroe* is quite large and has a wonderful diversity of habitat, so we ask birders from all areas of this county to please send their reports for inclusion in the Greater Pocono Bird Hotline, 717-622-2342.

Montgomery County

We had near-drought conditions, resulting in extensive mudflats (and plenty of shorebirds) at Green Lane Res (GLR).

Two early **Pied-billed Grebe** were at Church Rd., GLR 8/26 (K Stagl, m.ob.). A **Glossy Ibis** was at several GLR locations 8/21-25 (R Bardman, m.ob.). Early waterfowl included 6 **Snow Geese** 9/24 (K Crilley) and 7 **N. Pintail** 9/7 (GA Franchois, A Mirabella). A ♀ **C. Merganser** stayed all summer at Upper Perkiomen Valley Park and was last seen 8/16 (AM).

Raptors had a good showing, with 1-2 **Bald Eagle** at GLR all quarter (m.ob.), an early **N. Harrier** at Norristown Farm Park 8/8 (J McBready), and a **Merlin** at GLR 9/12 (K Reiker). Even better was a **Peregrine Falcon** at GLR 9/4 (T Wurttenberger). A very cooperative **Sora** was at a small pond in NFP 9/2-9 (JM).

Not surprisingly, shorebirds were the big story. A total of 22 spp was observed at Church Rd., including 6 rarities and 1 accidental. An **Am. Avocet** (2nd county record) was found 8/10, but could not be found the following day (RB, m.ob.). Fortunately, another (?) appeared on 9/5 and lingered (GAF, m.ob.). Incredibly, a 2nd bird joined it from 9/11-18, giving many observers a double-shot of Avocet! (KC, m.ob.). Other shorebirds of note included **Am. Golden-Plover** 8/23+ (GAF, KR); 42 **Semipalmated Plover** 8/12 (KC); single **Sanderling** 8/10 and 9/8 (KC, KR et al.); 100 **Semipalmated Sandpiper** 7/31 (GAF); 179+ **Least**

Sandpiper 8/31 (KC); 5 **White-rumped Sandpiper** 9/8 (KR); 2 **Baird's Sandpiper** 9/12 (KR); **Buff-breasted Sandpiper** 8/23 and 9/16 (GAF, KR); 14 **Solitary Sandpiper** 7/3 1 (GAF); **Wilson's Phalarope** 9/7-16 (GAF et al.); and **Hudsonian Godwit** 8/319/2.(GAF et al.). Overall, not a bad season!

Caspian Tern, once considered rare here, has become almost commonplace in recent years. Up to 12 were present for over a month 8/10 + (KR, GAF et al.). A single **Black Tern** was at Walt Rd., GLR, on 8/10 (GAF). A **Barn Owl** was heard in the Murphy's Oreland backyard (BNM).

Our only **Olive-sided Flycatcher** was in UCV 8/30 (GAF), and **Least Flycatcher** were tallied 8/11 at FWP and 9/11 at NFP (BNM, JM). A **Purple Martin** 9/7 at GLR was unusually late (AM, GAF), and a **Winter Wren** in North Wales 9/30 was a bit early (AM). **Am. Pipit** numbers at GLR peaked at 30 on 9/23 (KC).

24 warbler species were observed, highlighted by **Yellow-throated** 7/12 at UCV (GAF), **Wilson's** 9/11 at NFP, and **Yellow-breasted Chat** 9/11 at NFP (JM).

Savannah Sparrow were fairly numerous at GLR, but our high count of 40 came from NFP 9/30 (JM). **Lincoln's Sparrow** also had a good showing, with 7 at GLR 9/26 (GAF). The season's first **Rusty Blackbird** (2) were at GLR 9/27 (GAF, KR).

Montour County

Bald Eagle, observed sporadically since spring, was seen by Jon Beam on 7/9.

Northampton County

An adult **C. Loon** was on the Delaware R near Raubsville on the unusual date of 7/23 and a ♂ **Green-winged Teal** and a ♂ **Ring-necked Duck** were still present in the flooded fields at Green Pond on 7/12 (R Wiltraut).

An adult male Osprey at a new nest near Portland had a band which indicated that the bird fledged from the original Portland nest site in 1985! (B & T Hardiman). The bird was originally taken from a nest in the Chesapeake Bay in 1985 because it was being "beat up" by its nest mates on a hacking tower. Larry Rymon took care of the bird before placing it on the tower at Portland. It fledged and dispersed, but was never heard of again until now, 13 years later!

An excellent count of **8500 Broad-winged Hawk** was reported from Williams Twp (WT) on 9/18 (A Koch) and 6 **Peregrine Falcon** were counted during SW winds at Little Gap Raptor Research Station 9/26 (A Miller, M Schall). 3 **Am. Golden-Plover** were on the flat, plowed fields on Berry Hollow Rd on 9/20 and another was seen on a soccer

field in Forks Twp. 9/13 (RW). A **Ls. Yellowlegs**, 6 **Solitary Sandpiper**, and 2 **Least Sandpiper** were at Green Pond on early date of 7/2 and a late **Upland Sandpiper** was seen on Berry Hollow Rd on 9/6, a rare bird in the county (RW). The shorebird highlight of the quarter was 4 adult **Hudsonian Godwit** at the Martins Creek PP&L flyash basin on 8/17 (ph. RW), a 1st county record and the largest number ever recorded in the Lehigh Valley area. **Two Baird's Sandpiper** were at the MC flyash basin 9/15, with 1 remaining to 9/18 (RW). An **Olive-sided Flycatcher** was at Jacobsburg SP 8/14 and 2 **Philadelphia Vireo** were noted there in Sept (RW). An early Philadelphia Vireo was in WT on 8/18 (AK). A pair of **Blue Grosbeak** were at Martins Creek on 7/14 and another was seen in WT 7/30 (AK). A **Mourning Warbler** was in WT on 8/18 (AK). An ad. ♂ **Black-headed Grosbeak** seen in WT on 7/26 (AK) was a 1st county record. **Lincoln's Sparrow** came through early and in good numbers. The early date was 9/7 at Nazareth and 5 were seen in a brushpile at the same location on 9/26 (RW). The high count was 20 in WT on 9/29 (fide AK). A Lincoln's Sparrow at LGRRS 9/29 was unusual for that location (RW).

CORRIGENDUM: From Vol. 12 No. 2, "an early warm front on 3/30 (82°F) brought a record 11 (*not 1*) Glossy Ibis to the flooded fields at Green Pond (J Zajecek, RW et al.)."

Observers: Brian and Tiffany Hardiman, Arlene Koch, Adam Miller, Mike Schall, Rick Wiltraut, Joe Zajecek.

Philadelphia County

We recorded a rather lackluster 164 spp. this quarter. Top heron counts at Tinicurn (TI): 1 **Least Bittern** until 8/22 (P Robinson); 41 **Great Blue Heron** 8/9 (T Floyd); good counts of 142 **Great Egret** 8/9 and 13 **Snowy Egret** 8/20 (TF); 3 **Little Blue Heron** 8/9 (TF); 1 **Cattle Egret** 8/17 (TF), 5 **Green Heron** 8/9 (TF); 5 **Black-crowned Night-Heron** 9/9 (TF); and 1 **Yellow-crowned Night-Heron** 9/9 (TF). **Black Vulture** at Carpenter's Woods (CW) 9/28 was unusual (S Lawrence). **Bald Eagle** was noted at several locations (v.o.), and **Merlin** was present near CW 9/18 (SL) and at Spring Lane 9/19 (TF).

Shorebirds were disappointing this season, and the only highlights, all at TI, were: 1 **Black-bellied Plover** 8/22 (TF,PR); 1 **Western Sandpiper** 8/9-8/15 (TF), 2 **White-rumped Sandpiper** 8/9 (TF); and 3 **Stilt Sandpiper** 8/20 (TF). Top **Laughing Gull** count was 65 at TI 8/19 (TF). Terns at TI included: 2 **Caspian** 8/15-8/22 (TF, J Miller); 1 **Common** 8/22 (TF); and max. of 81 **Forster's** 8/29 (TF).

A **Whip-poor-will** remained along the Upper Wissahickon (UP) until 8/24 (D Cutler). A **Yellow-bellied Flycatcher** was at CW 9/12-13 (TF,SL). A **Philadelphia Vireo** was found in Center City 8/31 (B Stewart). At least 10,000 **Tree Swallow**

and 2000 **N. Rough-winged Swallow** were at TI 8/20 (TF). A **Gray-cheeked Thrush** was at Spring Lane 9/19 (TF), and an **Am. Pipit** was at the Sun Oil Pond 9/13 (TF). It was unusual to find 3 **Hooded Warbler** at CW 9/13 (TF). **Savannah Sparrow** returned to Spring Lane 9/19 (TF), **Blue Grosbeak** remained at TI until 8/22, and **E. Meadowlark** returned to the Northeast Airport 9/29 (TF).

Pike County

There were 162 spp. recorded. Two **Pied-billed Grebe** were reported from Decker's Pond, just prior to the quarter, on 6/29. Another one was at Egypt Meadow L of the Bruce Lake Natural Area on 8/28. **Great Egret** were reported from various locations in the county from 8/20- 9/17, with as many as 9 at L Shohola on 8/20. A **Snowy Egret** was reported from the Delaware Water Gap National Recreational Area (DWGNRA) on 8/7. Nice numbers of **Blue-winged Teal** were reported from various locations from 8/23+, with at least 6 at Decker's Pond on 8/23. A **C. Goldeneye** was reported from the DWGNRA on 8/7. **C. Merganser** were reported all quarter, including the Bushkill area on 9/19.

The pair of **Bald Eagle**, which have nested at L Shohola for the past few years, had no young reported this year; and the **Osprey** pair at this location were also reported to have been unsuccessful. These last two reports are courtesy of the PGC wildlife biologist's field surveys in the area. There was an unconfirmed report of a possible second Bald Eagle nest site, which apparently may have been active, located at an "undisclosed" area on the backside of L Shohola. The Osprey platform nest site visible from the boat launch area of L Wallenpaupack was very successful this summer. The Ospreys at this location provided plenty of interest for both birders and non-birders alike. A ♂ **Merlin** was seen at the DWGNRA during an ornithology class foray on 8/8 (G Wilhelm).

A **Virginia Rail** was seen skulking about the L Shohola area on 8/28. And one final note of interest: A **Brown-headed Cowbird** fledgling was seen being fed by a **White-breasted Nuthatch** at Promised Land SP on 8/16.

The interest, enthusiasm, and cooperation supplied by the birders of Pike made the job of compiling their birds for the last two quarters truly a treat! When someone within the county steps forward and requests to be the compiler, I will reluctantly step aside, as I am really enjoying working here while it lasts! I wish to thank the following contributors to this successful venture: Charlie Muise and the staff of PEEC; PGC biologist Mary Jo Casalena; Peter Wulfhorst, Edie Parnum; Chris Turn; Frank Hohenleitner, Gene Wilhelm; Rosann Bongey; Mary Kay Coleman; Bob Ross; Bill Reid; David & Lori Prytherich.

Schuylkill County

We recorded 176 spp plus one exotic. **Great Egret** was first reported 7/20 at Sweet Arrow L (B Allerton & D Donmoyer). This species was present at various locations all quarter, with 5 near New Ringgold on 7/30. The young **Tundra Swan**, which arrived at the Landingville Dam back on 4/10, remained at that location all summer, in the company of 2 **Mute Swan**. A **N. Goshawk** was at SGL-110, near Rt. 183, on 8/6 (L Goodrich), which is a location where this species was not previously reported. Hawk Mountain Sanctuary reported their first **Peregrine Falcon** on 8/28 (M Monroe). The first **Golden Eagle** flew by the north lookout of HMS on an early date of 9/23 (MM).

A **Virginia Rail** was at the Wood Duck Trail of the Landingville Dam on 9/5 (T Clauser). 7 **C. Snipe** were near the village of Rock 7/21. A **Barn Owl** was seen by many observers during the pursuit of the **White-winged Dove** at Schwartz Valley Rd on 7/1-3. The dove, first seen at that location on 6/29, was last seen there on 7/3 (S Weidensaul). An **Olive-sided Flycatcher** was at SGL-110 Port Clinton on 8/28 (D Krue) and another was at HMS north lookout on 8/30 (MM). There were more **Red-headed Woodpecker** reports than usual this year, with the first reported on 9/12 at north lookout (MM), and others at various location to the end of the quarter.

A **Yellow-bellied Flycatcher** was singing at the Landingville Dam on 9/18, and another was also at Swatara Cr near Suedberg on 9/19. **Philadelphia Vireo** were reported on five occasions, with the first at Owl Cr near S. Tamaqua on 9/4 (G Czulada); as many as 4 all seen at (HMS) on 9/30 (MM); and also reported from the LVD on 9/19 (M Ward). A **Gray-cheeked Thrush** was at the Tumbling Run Dam area on 9/30 (TC). A **Yellow-rumped Warbler** was at the Still Creek Res on 7/10 (DK). This species is probably breeding in the county, but that has yet to be confirmed. 20 **Palm Warbler** were first reported on 9/19 this fall at Schwartz Valley Road, with various observers noting a 60-40 ratio of "western" to "yellow" throughout the quarter. A first-winter **Clay-colored Sparrow** was well documented from the Schwartz Valley Rd area on 9/12 (SW). This is a 1st county record. A **Dark-eyed Junco** was at the Owl Cr watershed area on 7/5 (R Keller). A ♀ **Brewer's Blackbird** was well-documented at the Sweet Arrow L area on 9/19 (DD). This is only the 3rd confirmed sighting of this species in the county.

EXOTIC: The Emu, which has been reported from the Kempton valley in *Berks* this summer, found its way to Drehersville on 7/19 (MM).

Somerset County

A **Double-crested Cormorant** paid Jeff and Lauretta Payne a visit at their home on 8/16 outside of

Berlin long enough to raise their property tally to 170 species! **Great Blue Heron** bred again at the Friedline Farm near Boswell (S Bastian). About 180 of the 2000 **Canada Geese** banded statewide by the PGC were banded in *Somerset* and some of these birds were harvested during the Sept. goose season (A Marich).

From last quarter, two **Sandhill Crane** were reported seen by 2 WCOs in April of this year - a county 1st record (documentation has been solicited). It is hoped more information will follow for the next report. Also a report from the prior quarter, a **Barn Owl** was found (specimen) in May not far from New Centreville (AM). Ninety-five (!) **Indigo Buntings** were spotted on 9/8 at Payne's place (J&LP). **Pine Siskin** bred again this year at Payne's place.

Sullivan County

Quarter remained below normal temperatures and the same for area streams - showing more rocks than water in Aug and Sept.

A single **C. Loon** remained on Eagle's Mere L until 7/6, then reappeared with a second bird on 9/3. A lone **Double-crested Cormorant** appeared at the same location for several days in late Aug (H Remoff). Appearances by these two species in the past several years continue to heighten the expectation of future nesting in the county.

Only one sighting of **Am. Bittern** on 7/28 at Splashdam Pond, where this species produced young last year (S Conant).

Red-headed Woodpecker near High Knob in Wyoming SF continued from last quarter and nested with 2 ad. and 3 young seen on 7/26 (SC, R Megew). Family group last seen in early Sept (N Kerlin). This species took advantage of the many dead trees from previous years' insect defoliation. **Mourning Warbler** also took advantage of the changing habitat (forest to brush) from insect mortality and logging, as it was noted in several new locations in Wyoming SF (v.o.).

Tioga County

Larry, Arlene, and Austin found 3 **Great Egret** at Hills Creek SP 8/3. We returned on 8/4, but they were gone. This is a 1st for the county.

A **King Rail** was a Hills Creek SP 9/29 (L&AB). It was heard 5-6 times and that was it. It was a personal 1st.

EXOTIC: A Golden Pheasant was seen in the Millerton area 9/5 (J Stickler).

Venango County

The highlight was an imm. **Yellow-crowned Night-Heron** on Oil Creek near Rouseville 9/6-7 (G Edwards, J Stanley). It was a 1st Co. record. Eight early **Blue-winged Teal** and one **N. Shoveler** were

at Justus L. 9/1 (K Goodblood). These records are about two weeks early for this area. From 8/29-10/8 one, and sometimes two **Sora** were repeatedly observed at JL (JS, R States). One **Am. Golden-Plover** visited the fields near Kahle L. on 9/13 (GE, KG). An **Olive-sided Flycatcher** was at Buttermilk Hill Nature Sanctuary (BH) on 8/29 (JS, KG). **Yellow-bellied Flycatcher** was seen 9/4, 9/5, and 9/27 at BH (JS,). **Gray-cheeked/Bicknell's Thrush** was seen at BH 9/4, 9/20 and 9/22. Five **Am. Pipit** were at KL 9/20. A **White-eyed Vireo** was seen at BH 9/7 and a first Aug. record **Philadelphia Vireo** was at Two Mile Run CP (TMR) 8/29. Fall **Orange-crowned Warbler** sightings occurred at BH and TMR 9/12 and 10/4. Two first Aug. records were recorded for **Bay-breasted Warbler** and **Blackpoll Warbler** on 8/30. **White-crowned** and **White-throated sparrows** both were about a week early, appearing on 9/15 and 9/21.

Warren County

Up to 8 **Double-crested Cormorant** were on the Allegheny R at Starbrick during Aug. (J Schultz). A **Great Egret** spent most of Aug & Sept on the AR at Tidioute (D Watts, C Anderson). A **Bald Eagle** was seen over downtown Warren 7/23 (M Neel).

Thirty-eight of 51 **Am. Kestrel** nest boxes were occupied by kestrels. Eggs laid were 169; eggs hatched: 111; and young fledged: 111. This was good nestling survival, but an unusually high number of eggs that didn't hatch or that disappeared. Don banded 60 ♀♀ and 41 ♂♂ nestlings and 10 ad. ♀♀ (DW).

A **Solitary Sandpiper** was at a pond near Chapman SP 7/10 (T Grisez). An **Upland Sandpiper** was seen near Lander 8/4 (B Highhouse).

The base of a **Tree Swallow** nest near Tidioute was filled with porcupine quills, as TG found out when he reached in to remove the used nest!

Single **Carolina Wren** spent Aug on the south and east sides of Warren (DW, TG). Five **E. Bluebird** eggs in one of DW's kestrel boxes hatched, and the young fledged 7/28 or 29. Almost daily birding walks by MN at Saybrook in Sept revealed fewer thrushes than other years, a **Yellow-throated Vireo** on two days, and "swarms" of warblers including 21 species. **Blue-winged Warbler** were unusually scarce, but there were "hundreds" of **Black-throated Green**. No **Waterthrush** was unusual, but there were lots of **Scarlet Tanager**. There was a **Pine Siskin** at Saybrook through the first half of July and three on 7/15 (MN).

CORRIGENDUM: In the April - June issue, page 62, under Warren Co., I or someone along the way left out the word "albino" before "Red-tailed Hawk".

Westmoreland County

A **Peregrine Falcon** near Ligonier 9/28 (R S Mulvihill) was a good find away from the hawk ridges; as was a **Merlin** at PNR 9/12 (Westmoreland County Bird Club). The season's only report of **Olive-sided Flycatcher** came from PNR on 8/22 (RSM, Bob Leberman). Dennis Lauffer, who first heard and identified a **Sedge Wren** singing near Delmont on 7/1 at 3:50 AM, returned to the spot after daybreak and was able to see the bird. A handsomely plumaged male **Lawrence's Warbler** was banded at PNR (Leberman & Mulvihill) 9/3. A special study of **Louisiana Waterthrush** centered at PNR ended the season with a total of 248 individuals banded this year (RSM). Fourteen **Connecticut Warbler** were banded at PNR between 8/30 and 9/28 (RCL, RSM).

Wyoming County

13 **Great Egret** seen together on the Susquehanna R. at S. Eaton on 7/27 (P Ford, B Reid) were an unprecedented number. The **Red-necked Phalarope** seen on the river at S. Eaton on 9/17 was a 2nd Co. record (†BR).

Blackpoll Warbler was again found nesting in Coal Bed swamp (D Gross).

York County

23 **Double-crested Cormorant** congregated at a pond on Brunners Is. 8/15 (A Spiese). On 7/30 K. Lippy found 35 **Great Egret** and 2 imm. **Little Blue Heron** on recently -created Hartman Wetlands. A **Snowy Egret** was on BI 8/3 (AS). Only 1 family of **Black-crowned Night-Heron** remained at the rookery at Kiwanus L. 7/7.

48 **Wood Duck** were at BI 8/26 (AS). An **Am. Golden-Plover** was at a Spring Grove lagoon 8/26 (AS). No Semipalmated Plover reported. An early **White-rumped Sandpiper** was along Gut Rd 8/22 (J&J Prescott) and a **Stilt Sandpiper** was at Spring Grove 9/5 (AS).

Six **Black Tern** were at Codorus SP 8/18 (P Robinson). **Barn Owl** nested again in Warren Frey's barn near E. Berlin.

A **Yellow-bellied Flycatcher** was on BI 8/24 (AS) and at Rocky Ridge hawk watch on 9/26 (R Phillips). An est. 300 **Cedar Waxwing** were at Codorus Furnace 9/13 (J&JP). On 13 different days the Prescotts observed the **Prothonotary Warblers** along Gut Rd. They found the nest hole. On 7/25 they saw the ♀ with 2 young. **White-throated Sparrow** were recorded singing near Si Roundtop 7/6 (J Pheasant). Jack & Lil Downs counted 12 **Bobolink** at Lauxmont Farms 8/3. An **House Finch** with a yellow upper breast and no red was with ± 20 others with typical plumage (AS). Preliminary report from the hawk watch includes 19 **Bald Eagle**, 185 **Sharp-shinned Hawk**, over 5500 **Broad-winged** on 9/18, and 2 **Peregrine Falcon**. ♣

Seasonal Occurrence Tables - July through September 1998

A summary of frequently reported species with arrival/departure dates and high counts

HOW TO READ THE TABLES

The species listed in the following tables represent the "expected" species in most areas. The following 26 species, permanent residents that occur in almost every county, are not included.

Ruffed Grouse, Ring-necked Pheasant, Wild Turkey, Rock Dove, Mourning Dove, Eastern Screech and Great Horned owls, Belted Kingfisher, Red-bellied, Downy, Hairy, and Pileated woodpecker, Blue Jay, American Crow, Tufted Titmouse, White-breasted Nuthatch, Carolina Wren, Eastern Bluebird, Northern Mockingbird, Cedar Waxwing, European Starling, Northern Cardinal, Song Sparrow, House Finch, American Goldfinch, and House Sparrow

Not all of the above are "permanent residents" in the strictest sense. Kingfishers, for example, will leave an area if all of the open water freezes up. Blue Jays migrate, but since Pennsylvania is in the center of their summer and winter ranges, they are present year round. Comments on the above species can be found in either the *Summary of the Season* or *Local Notes*.

All other reported species can be found in the *Birds of Note* section.

CODES

The codes used in the tables are as follows:

A = Present All quarter. This species was present from the first day of the quarter through the last day of the quarter. This could refer to individual birds or the species as a group.

P = Present Part of the quarter. This species was present, but specific dates are not available.

R = Permanent Resident. This species breeds and is present year round in this county.

L = Late or Low. An L after a date indicates an unusually late date. An L after a number indicates an unusually low number.

H = High. An H after a number indicates an unusually high number.

E = Early. An E after a date indicates an unusually early date.

- = An arrow before a date indicates the species was present from the beginning of the quarter to at least that date.

An arrow after a date indicates the species was present starting with that date and through the rest of the quarter.

() = Numbers in parentheses indicate high counts for the season. No number means only 1-3 individuals or no number was reported.

***** = Something noteworthy. Comments about the record may usually be found in the Local Notes section.

sp. = Species unknown, such as Scaup.

A comma between dates indicates that the species was not present during that interval.

A blank does not necessarily mean that the species does not occur in that county, just that no reports were received by the compiler for that species.

EXAMPLES:

2/27-3/6(24)-3/30 means the species was first reported on 2/27 with a high of 24 on 3/6 and last reported on 3/30.

1/6-3/22(250)- means the species was first reported on 1/6 with a high of 250 on 3/22 and present through the rest of the quarter.

-1/5,3/15- means the species was present up to 1/5 then returned on 3/15 and was present through the rest of the quarter.

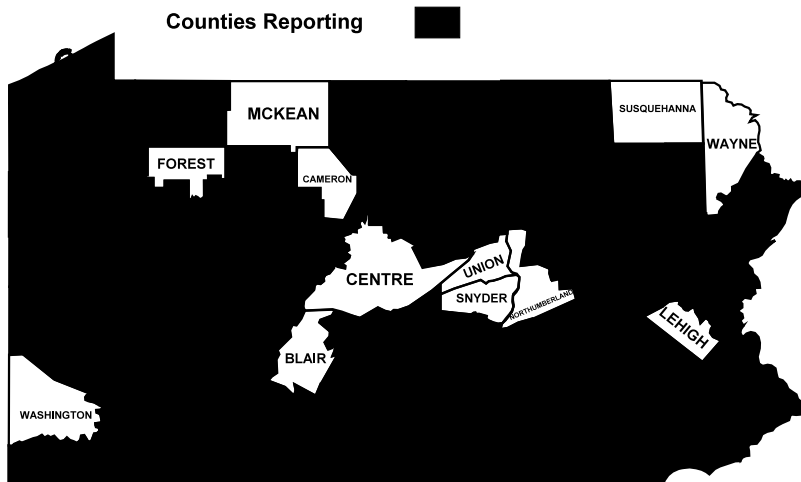
5/6- means the species was first seen on 5/6 and remained the rest of the quarter.

A-5/6(25) means the species was present all quarter with a high of 25 on 5/6.

9/4E means the species was reported on 9/4, which was early for this county.

1/15-2/26(300H)- means the species was first reported on 1/15, with a high count of 300 on 2/26, which was unusually high for this county. ♀

COUNTIES REPORTING - JULY TO SEPTEMBER 1998



SEASONAL OCCURRENCE TABLES - JULY THROUGH SEPTEMBER 1998

| | ADAMS | ALLEGHENY | ARMSTRONG | BEAVER | BEDFORD | BERKS | BRADFORD | BUCKS | BUTLER | CAMBRIA |
|----------------------------|----------------------|-----------------|------------|------------|-----------|-------------------|--------------|-------------|-----------------|----------------|
| LOON, COMMON | - | - | - | - | - | →7/26 | - | 9/19 | A* | 7/19-9/28(3)→ |
| GREBE, PIED-BILLED | - | 9/3-22 | 9/20→ | - | - | A-9/19(123) | - | 9/7→ | 8/29-9/22(9)→ | 9/10→ |
| CORMORANT, DOUBLE-CRESTED | - | 9/12→ | 9/12→ | - | - | A-9/23(130) | - | A | 8/16 | 8/11-9/30(51)→ |
| HERON, GREAT BLUE | R-7/20(4) | R | A-9/18(5) | - | R-8/5(4) | R | A | R | A-8/16(5) | A-8/15(12) |
| EGRET, GREAT SNOWY | A-8/21(33) 9/9-20 | 8/13-9/23 | 9/5-27 | 8/26-9/15 | 8/4-5(6) | 7/23-9/6(14)→ | 7/20(4)-8/26 | 7/19-SEP | 8/8-16 | 8/14-27 |
| HERON, LITTLE BLUE | - | - | - | - | - | 7/17-8/2(3)-19 | - | 8/11-8/28 | - | - |
| HERON, GREEN | A-8/8(4) | →8/13 | →8/30 | A | →8/13 | →9/13 | →8/26 | A | →8/16(1)-9/23 | A-8/15(5) |
| NIGHT-HERON, BLACK-CROWNED | - | 8/13-9/27 | - | - | - | →9/13 | - | A | - | - |
| VULTURE, BLACK | R | 9/26 | - | - | A | R | - | R | - | - |
| TURKEY | R | A-9/19(10) | A-9/13(8) | →9/18 | A | R | A | R | A-8/8(64) | A |
| GOOSE, SNOW | - | - | - | - | - | 7/19-9/30 | - | R | - | - |
| CANADA | R | R | R-7/14(75) | - | R | R-9/23(738) | R | R | R-9/1(300) | R |
| SWAN, MUTE | - | - | 9/5→ | - | - | R-9/19(7) | 9/21-25 | - | - | - |
| DUCK, WOOD | R | R-9/27(13) | A | A | A-9/6(23) | R-7/10(200) | A-9/10(10) | R | A-8/29(59) | A-9/22(195) |
| GADWALL | - | - | - | - | - | 9/16→ | - | 9/13 | - | - |
| WIGEON, AMERICAN | - | - | - | - | - | - | - | 9/6→ | 9/24→ | 9/22(27)→ |
| DUCK, AMERICAN BLACK | 9/19 | R | 8/20(3) | - | - | A | R | R | - | - |
| MALLARD | R | R | R-8/29(12) | - | R | 8/24-9/19(113)→ | R | R | R | R |
| TEAL, BLUE-WINGED | - | - | - | - | - | 8/9-30 | - | 8/26 | →8/16(3) | 9/22(60)→ |
| SHOVELER, NORTHERN | - | - | - | - | - | - | - | - | 9/27(6) | - |
| PINTAIL, NORTHERN | - | - | - | - | - | 9/19 | - | - | - | 9/22(5) |
| TEAL, GREEN-WINGED | - | - | - | - | 7/24(3) | 8/17(3)→ | - | 8/27(4)→ | 9/27(4)→ | 8/12(3)→ |
| DUCK, RING-NECKED | - | - | - | - | - | 9/19(3) | - | 8/11(6)→ | A* | - |
| MERGANSER, HOODED | - | - | - | - | - | - | 8/21-26 | - | - | - |
| COMMON | - | - | - | - | - | - | R | R | - | - |
| DUCK, RUDDY | - | - | - | - | - | A-8/31(14) | - | - | - | - |
| OSPREY | - | - | 8/29-9/19 | - | 9/3-27 | 7/21-9/22(46)→ | - | - | 9/29(3)→ | - |
| EAGLE, BALD | 8/23 | - | 9/18→ | - | - | 7/26-9/8(25)→ | A | →9/21 | P | 8/27→ |
| HARRIER, NORTHERN | - | →9/22 | - | - | 9/7 | 8/8-9/9(10)→ | R | 9/10→ | R | 9/30 |
| HAWK, SHARP-SHINNED | R | R | R | - | 9/13 | R-9/28(353) | R | R | A | 7/10→ |
| COOPER'S | - | - | - | - | 8/21 | R-9/28(41) | R | R | A | R |
| GOSHAWK, NORTHERN | R | R | - | - | - | 9/11E→ | - | - | - | - |
| HAWK, RED-SHOULDERED | - | - | - | - | - | 8/18→ | - | R | A | - |
| BROAD-WINGED | - | →9/24 | →9/18(118) | - | - | A-9/18(12193) | P | →9/21 | →9/1(5)-17 | →8/21 |
| RED-TAILED | R | R | R | R | R | - | R | R | R | R |
| KESTREL, AMERICAN | R-8/229(16) | R | R-8/23(10) | R | R | R-9/28(90) | R | R | R | R-7/10(13) |
| MERLIN | 9/25 | - | - | - | - | 8/31-9/16(7)→ | - | 9/12-21 | 9/9-27 | - |
| FALCON, PEREGRINE | - | R | - | - | - | 8/5→ | - | 9/12-24 | - | 9/25 |
| BOBWHITE, NORTHERN | - | - | R | - | - | - | - | R | - | - |
| RAIL, VIRGINIA | - | - | - | - | - | 9/16 | - | JUL | 8/17(3)* | →8/28 |
| SORA | - | 9/22 | - | - | - | - | - | - | - | →9/10(3)-30 |
| MOORHEN, COMMON | - | - | - | - | - | 7/10-9/19 | - | - | - | - |
| COOT, AMERICAN | - | - | - | 9/4(4) | - | A-9/19(100) | - | - | 9/17-25(200)→ | 9/22→ |
| PLOVER, BLACK-BELLIED | - | 9/17 | - | - | - | 8/6-13 | - | - | - | - |
| AMERICAN GOLDEN | - | - | - | - | - | 9/22(3)-23 | - | - | - | - |
| SEMPALMATED | - | - | 8/30 | - | - | 7/25-8/10(15)-16 | - | - | - | - |
| KILLDEER | R-9/25(65) | A-8/13(14) | A-8/23(12) | A | - | R-9/19(120) | A-8/26(26) | A | 8/1-10(9)-9/21 | A-7/10(50) |
| YELLOWLEGS, GREATER | 9/20-29 | 8/31-9/3(4)-24 | - | 8/26→ | - | 7/17-8/10(10)→ | 8/1 | 9/6-21 | 8/1-16(8)→ | - |
| LESSER | 8/4-9/29 | 8/31-9/22(4)-24 | - | 8/26→ | - | 7/18-8/10(190)→ | 8/1-21 | 9/6-29 | 8/1-15(12)-9/23 | - |
| SANDPIPER, SOLITARY | 8/4 | - | 8/23 | 8/26→ | - | 7/18-31(150)-9/19 | 8/9-26 | A | 8/7-15(8)→ | 9/23 |
| SPOTTED | A | A | 8/20 | - | - | A | →8/26 | A | →8/25(6) | A-8/20(3) |
| SANDLERLING | - | - | - | - | - | 7/31(3)-8/2 | - | - | - | - |
| SANDPIPER, SEMIPALMATED | - | 8/31 | 8/30 | 8/26 | - | 7/18-31(150)-8/19 | 8/1(3) | - | 8/7-10(17)-9/21 | - |
| WESTERN | - | - | - | - | - | 8/10 | - | - | 8/7-10 | - |
| LEAST | 8/4(3) | 8/31 | 8/30 | 8/14-28(6) | - | 7/13-31(150)→ | 8/5-26(10) | 7/19(3)-9/6 | 8/1-16(10)-9/27 | - |
| WHITE-RUMPED | - | 8/31 | - | - | - | 9/1(4) | 8/21-26 | - | 9/6-13 | - |

SEASONAL OCCURRENCE TABLES - JULY THROUGH SEPTEMBER 1998

| | ADAMS | ALLEGHENY | ARMSTRONG | BEAVER | BEDFORD | BERKS | BRADFORD | BUCKS | BUTLER | CAMBRIA |
|-------------------------------------|----------------|---------------|---------------|----------|--------------|--|--------------|-----------|--------------------|--------------------|
| BAIRDS | - | - | - | - | - | - | - | - | - | - |
| PECTORAL SANDPIPER, STILT | - | 8/2-9(6) | - | 8/26 | - | 8/13-9/18 7/19-8/10(30)→ 8/2-10(45)-15 | 8/21 8/26 | 9/13-24 | 8/1-9/27 8/7-10 | - |
| DOWITCHER, SHORT-BILLED | - | - | - | - | - | 8/9 | - | - | 8/7-25 | - |
| SNIPE, COMMON | 9/11→ | 8/31 | - | 8/26→ | - | 9/13-18(5)→ | - | - | 8/30-9/27 | - |
| WOODCOCK, AMERICAN | R | - | - | - | - | A | A | - | - | - |
| GULL, RING-BILLED | - | - | 9/12(3) | - | - | A | - | A | A | A |
| HERRING GREAT BLACK-BACKED | - | R-8/23(16) | - | - | - | 7/24-8/9 | - | A | - | - |
| TERN, CASPIAN | - | - | - | - | - | 8/22-30(32H)-9/19 | - | 9/13-18 | 7/11-8/26 | 9/22(3) |
| FORSTER'S BLACK | - | - | - | - | - | - | - | 8/3 | - | 7/16-28 8/21-25 |
| CUCKOO, BLACK-BILLED | →7/20 | →9/14 | - | →8/16 | - | →7/25 | →7/15 | →8/1 | P | A |
| YELLOW-BILLED OWL, BARN | →9/13(3) | →9/27 | - | →8/26 | - | A | →8/26 | →9/26 | P | A |
| BARRED NORTHERN SAW-WHET | R | R | R | - | R | R | R | R | R | R |
| NIGHTHAWK, COMMON | 7/23-8/25(100) | →9/12(156)-26 | →9/1 | →9/13 | - | →8/25(100) | 8/29 | →9/18 | →8/28(50)-9/11 | →9/14(7) |
| WHIP-POOR-WILL | - | →7/1 | - | - | →8/27 | P | - | - | 9/6 | - |
| SWIFT, CHIMNEY | A-9/20(50) | A-9/28(75) | A-8/29(355) | A | - | A-9/3(122) | →9/21 | A | A-8/28(400) | →9/27(20) |
| HUMMINGBIRD, RUBY-THROATED | A-7/18(12) | →9/26 | →8/20(4)-9/18 | →9/21 | →9/17 | →9/27 | P | A | →9/22 | →9/14 |
| WOODPECKER, RED-HEADED | R | 9/20 | - | - | - | R | R | R | - | - |
| SAPSUCKER, YELLOW-BELLIED | R-9/20(7) | 9/17→ | - | 9/23 | - | 9/13→ | A-7/31(3) | 9/26 | 7/23E→ | 9/28→ |
| FLICKER, NORTHERN | R-9/19(12) | 9/14-20 | R | - | R-9/21(5) | 8/30-9/13 | - | 9/1-8 | 7/18E | - |
| FLYCATCHER, OLIVE-SIDED | - | 9/14-20 | - | - | →9/13 | A | →8/20 | →9/26 | P | →9/11 |
| WOOD-PEWEE, EASTERN | →9/13 | →9/20(5) | - | →9/17 | - | 8/30-9/12(4)-17 | - | 8/29-9/28 | - | - |
| FLYCATCHER, YELLOW-BELLIED | - | 8/27 | - | →9/17 | - | →9/11 | - | →8/8 | - | →7/3 |
| ACADIAN ALDER | - | →8/22 | - | - | - | - | P | - | - | - |
| WILLOW LEAST | - | - | - | - | - | →9/11 | P | →8/15 | →9/15 | - |
| PHOEBE, EASTERN | A | - | →8/20 | - | 9/16 | 9/1-20 | P | - | - | P |
| FLYCATCHER, GREAT CRESTED | →9/13 | A | A | →9/12 | A | A | A | A | A | A |
| KINGBIRD, EASTERN | →8/4(12) | →9/7 | - | - | - | →9/21 | P | →9/12 | →9/14 | →7/18 |
| VIREO, WHITE-EYED | →9/13 | →9/19 | →8/23(12)-30 | →9/12 | →7/17(5)-8/1 | →8/30 | P | →9/12 | P | →8/3 |
| BLUE-HEADED YELLOW-THROATED | - | 8/19-9/20(4)→ | - | →9/12 | - | →9/19(3) | P | →9/19 | →9/24 | - |
| WARBLING PHILADELPHIA | →9/13 | →9/20 | - | →9/23(8) | - | A | P | →9/6 | P | A |
| RED-EYED CROW, FISH | →7/20(4)-9/25 | →9/26 | →9/5 | →9/12 | →9/16 | 8/19-9/11(10H)-24 | P | →9/19 | P | - |
| RAVEN, COMMON | - | - | - | - | →9/23 | A-9/11(38) | P | A | P | A |
| LARK, HORNED | - | R | - | - | R | 9/5-22(9) | R | - | - | R-7/6(40) |
| MARTIN, PURPLE | P | - | - | - | - | →9/26 | P | →9/1 | P | - |
| SWALLOW, TREE | P | - | →9/15 | - | - | A-9/26(1725) | P | A | P | A |
| NORTHERN ROUGH-WINGED | P | 7/14 | - | - | - | →9/26 | P | →9/12 | P | P |
| BANK SWALLOW | - | - | - | - | - | →9/13 | P | →9/5 | 8/7-19 | - |
| CLIFF SWALLOW | - | - | - | - | - | →9/26 | P | →9/12 | P | - |
| BARN SWALLOW | P | P | →7/29(34) | →9/11(4) | - | A | P | →9/26 | →8/31(115)-9/21 | →7/15(100)-9/3 |
| CHICKADEE, CAROLINA | R | R | - | R | - | R | R | R | - | →9/15(6) |
| BLACK-CAPPED NUTHATCH, RED-BREASTED | - | R | R | R | R | R | R | R | R | R |
| CREEPER, BROWN | - | - | R | - | - | R | R | R | 8/26 | - |
| WREN, HOUSE | →7/20(8) | →9/19 | R | →8/6 | →8/28 | →9/20 | R | R | A | R |
| WINTER WREN | - | 9/13→ | - | - | 7/12 | A | R | 9/20→ | 9/28→ | →9/23 |
| MARSH WREN | - | - | - | - | - | 8/23 | A | 8/27-9/21 | - | - |
| KINGLET, GOLDEN-CROWNED | - | 9/24→ | - | 9/10(4)→ | - | 9/19→ | R | 9/20→ | 9/28→ | →9/30(7) |

SEASONAL OCCURRENCE TABLES - JULY THROUGH SEPTEMBER 1998

| | ADAMS | ALLEGHENY | ARMSTRONG | BEAVER | BEDFORD | BERKS | BRADFORD | BUCKS | BUTLER | CAMBRIA |
|-------------------------------------|-------------|-----------------------|-----------|------------|-----------------|------------------|-----------|----------------|-----------------|--------------------|
| RUBY-CROWNED GNATCATCHER, BLUE-GRAY | 9/25→ | 9/19(3)→ | - | - | 7/18E→ | 8/30E→ | - | 9/18→ | 9/25→ | 9/28 |
| VEERY | →8/22 P | →9/2 9/17 | - | →8/14 | →8/9(4) 7/12 | →9/18 →9/19 | - | →9/26 →9/24 | →9/14 P | P →7/6(14)-9/11 |
| THRUSH, GRAY-CHEEKED | 9/25 | 9/12-20(3) | - | - | - | 9/13-30(5) | - | - | 9/22-30 | - |
| SWAINSONS HERMIT | 9/25 | 9/2-19(14)-27 9/20 | - | 9/17(6) | →9/18 | 9/4-29(700H)→ | - | - | 9/14-30 | - |
| WOOD | →7/20(5) | →9/27 | - | - | - | A | A-7/15(4) | - | - | A |
| ROBIN, AMERICAN | R | R-9/2(578) | R | R | R | R | →9/21 | →9/26 | →9/30 | A |
| CATBIRD, GRAY | A-9/25(25) | →9/27(3) | A | →9/12 | →9/25 | A | A | A | A-9/29(1000) | R |
| THRASHER, BROWN | A | →9/20 | - | - | →9/14 | A | P | →9/19 | P | →9/3 |
| PIPET, AMERICAN | - | - | - | - | - | - | - | 9/14-19 | 9/13-SEP(50)→ | - |
| WARBLER, BLUE-WINGED | - | →9/12 | - | →9/12 | - | →9/10 | P | - | →9/14 | - |
| GOLDEN-WINGED | - | - | - | - | 7/12 | 9/9 | - | - | - | - |
| TENNESSEE | - | 8/19-9/27 | - | 9/12-17(5) | 8/28 | 9/1-23 | - | 8/22 | 9/17 | - |
| NASHVILLE | 9/13-25 | 8/23-9/24 | - | 9/12 | 8/22 | 8/27-9/11(23)→ | P | 9/6-9(4) | 8/28-9/1(6)-17 | - |
| PARULA, NORTHERN | - | 9/26 | - | - | - | →9/13(8)-20 | - | →9/26 | 9/17 | - |
| WARBLER, YELLOW | →7/20 | →8/2 | - | - | →9/29 | →9/17 | P | →9/26 | P | →9/22 |
| CHESTNUT-SIDED | 9/13-29 | 8/15-9/19(6)-20 | - | →9/17(3) | →8/21 | A | P | →8/21 | →9/17 | →9/1 |
| MAGNOLIA | 9/11 | 8/28-9/24 | - | 9/12-17(4) | →9/14 | 8/22-9/14(15)→ | P | 8/21→ | 8/28-9/1(6)-28 | 9/28(3) |
| CAPE MAY | →9/25 | 8/28-9/24 | - | - | 9/26 | 8/25-9/29(7) | - | 9/19 | - | 9/11 |
| BLACK-THROATED BLUE | 9/11-25 | 8/28-9/7(4)-24 | - | - | 9/12-26 | A-9/11(11) | P | 8/27→ | 8/28-9/14(4)-24 | →9/28 |
| YELLOW-RUMPED | - | 9/24(5)→ | - | 9/14 | - | 9/11→ | A | 9/13→ | 9/24→ | 9/28(3) |
| BLACK-THROATED GREEN | →9/29 | 8/22-9/20(11)-27 | - | 9/12 | →9/12 | A-9/9(50) | P | 9/1→ | →9/28 | →9/26 |
| BLACKBURNIAN | - | 8/22-26(4)-9/23 | - | - | - | 8/18-9/11(26)-28 | - | 9/6-9 | 8/28-9/17 | →9/11 |
| YELLOW-THROATED | - | - | - | - | - | 9/29 | - | - | P | - |
| PINE | P | 9/2-19 | - | - | - | A | - | - | - | - |
| PRAIRIE | - | →8/29(3) | - | →8/29(3) | →7/12 | →9/16 | P | →9/19 | P | - |
| PALM | - | 8/19→ | - | 9/17→ | 9/26 | 9/18 | - | 9/6-23 | 9/14 | 9/30 |
| BAY-BREASTED | 9/11 | 8/27-9/20(8)-27 | - | - | - | 9/1-9(12)-28 | - | 9/6-10 | 9/14 | - |
| BLACKPOLL | - | 9/2-12(6)→ | - | - | 9/12 | 9/6-9(8)-28 | - | 9/5→ | - | 9/30 |
| GERULEAN | P | →9/2 | - | →8/26 | - | →7/17 | - | - | P | - |
| BLACK-AND-WHITE | P | 8/15-9/20 | - | →9/17 | →9/3 | A | P | →9/26 | →9/14 | →9/28 |
| REDSTART, AMERICAN | →9/29 | →9/26 | - | →9/17 | - | A | P | →9/17 | →9/28 | P |
| WARBLER, WORM-EATING | P | - | - | →8/23 | →8/19 | 9/17 | - | →9/20 | - | - |
| OVENBIRD | P | →9/23 | - | →9/6 | →9/21 | A | →7/20 | →9/24 | →9/14 | P |
| WATERTHRUSH, NORTHERN | - | 9/24 | - | - | - | - | - | 9/3-19 | 9/16 | - |
| LOUISIANA | - | - | - | →7/14 | - | →8/4 | P | →7/11 | P | →7/18 |
| WARBLER, KENTUCKY | - | →8/20(3) | - | →9/17 | - | →8/18 | - | →8/22 | P | - |
| CONNECTICUT | - | 9/14-19 | - | - | 9/26 | 9/7-13 | - | 8/22-9/24 | - | - |
| MOURNING | - | 9/19 | - | - | 9/21 | 8/12-9/23 | - | 9/6 | - | - |
| YELLOWTHROAT, COMMON | →9/13(6)-25 | A | A-7/14(5) | →9/12 | →9/16 | A | →8/21 | A | A | A |
| WARBLER, HOODED | P | →9/27 | - | →9/17 | - | →9/19 | P | →8/22 | →9/17 | →9/11 |
| WILSON'S | P | 8/22-9/20 | - | - | 8/28 | 8/26-9/12(6)-16 | - | 8/21-9/19 | 9/17 | - |
| CANADA | - | 8/24-9/17 | - | - | - | →9/20 | P | 8/14-9/12 | - | - |
| CHAT, YELLOW-BREASTED | - | - | - | - | - | →7/3 | - | →9/30 | P | - |
| TANAGER, SCARLET | P | A-9/19(13) | →9/19 | →9/23(4) | →9/15 | A-9/9(35) | P | A | →9/30 | →9/10(3) |
| TOWHEE, EASTERN | A | A | A | A | →9/25 | A | A | R | A | A |
| SPARROW, CHIPPING | →9/29(5) | A | A | A | A-9/15(17) | A | A | A | A | A |
| FIELD | A-7/20(9) | A | A | A | A-9/26(7) | A | A | R | P | A |
| VESPER | - | - | - | - | - | P | P | P | P | A |
| SAVANNAH | - | - | A-7/14(4) | - | - | A | P | R | A | A |
| GRASSHOPPER | - | - | →7/29 | - | - | P | P | →8/15 | P | A-7/10(31) |
| HENSLOW'S | - | - | - | - | - | - | - | - | P | A-8/23(7) |
| LINCOLN'S | 9/25(4) | 9/19-24 | - | - | - | - | →7/28 | - | P | A-8/23(3) |
| SWAMP | 9/25 | 9/19-24 | - | →9/23(4) | A | R | A | R | P | A |
| WHITE-THROATED | 9/25 | 9/19-27(8)→ | - | - | - | 9/13→ | - | 9/9-25 | - | - |
| WHITE-CROWNED | - | 9/20 | - | - | - | 9/19→ | A | 9/19→ | P | A |

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| | ADAMS | ALLEGHENY | ARMSTRONG | BEAVER | BEDFORD | BERKS | BRADFORD | BUCKS | BUTLER | CAMBRIA |
|------------------------|-----------|-------------|-----------|-----------|---------------|--------------|-------------|-------|-----------|----------|
| JUNCO, DARK-EYED | - | 9/24→ | - | - | 9/26→ | A | R | 9/23→ | - | A |
| GROSBEAK, ROSE-BREADED | - | →9/26 | →9/16 | - | →9/15 | A-9/11(16) | P | →9/26 | →9/30 | A |
| BLUE | - | - | - | - | 7/9 | 7/22-9/19(4) | - | →JUL | - | - |
| BUNTING, INDIGO | →9/25(15) | →9/19(17) | →8/30 | →9/12 | →8/22(5) | A | P | →9/28 | →9/15 | →9/5(3) |
| BOBOLINK | P | →8/26 | - | - | 7/6 | →9/29(50) | →8/20 | →9/19 | →9/15(12) | P |
| BLACKBIRD, RED-WINGED | P | - | - | →8/26(17) | - | A | A-8/26(300) | R | A | A |
| MEADOWLARK, EASTERN | P | →8/13 | - | →8/4 | →7/31(9)-9/27 | A | A | R | A | A |
| GRACKLE, COMMON | P | A-9/23(150) | - | →8/4 | →8/6(328) | A | A | R | A | A |
| COWBIRD, BROWN-HEADED | P | - | - | - | - | R | A | R | A | A |
| ORIOLE, ORCHARD | - | - | - | →8/16 | →7/10(9)-11 | →7/5 | P | - | P | - |
| BALTIMORE | P | →8/28(4) | - | - | - | →9/22 | P | →9/12 | →9/1 | P |
| FINCH, PURPLE | - | - | 9/19 | - | - | 9/29(3)→ | - | R | A | A-9/1(5) |

| | CARBON | CLARION | CLEARFIELD | CLINTON | COLUMBIA | CRAWFORD | CUMBERLAND | DAUPHIN | DELAWARE | ERIE |
|----------------------------|--------------|--------------|------------|-----------|-----------|----------------|------------|----------------|-----------------|----------|
| LOON, COMMON | 8/29-9/5(3)→ | - | - | - | - | 9/26 | - | - | - | - |
| GREBE, PIED-BILLED | - | →9/17 | - | - | A | 8/16(20) | - | 9/3→ | 9/10-20(9)→ | 8/21(4)→ |
| CORMORANT, DOUBLE-CRESTED | 9/5(11)→ | - | - | - | A | - | A | A | A-8/28(15) | A |
| BITTERN, AMERICAN | - | - | - | - | - | 8/8 | - | - | - | 8/29 |
| HERON, GREAT BLUE | A | A | A | R | R | 8/30(14) | A | R | - | R |
| EGRET, GREAT | 7/24 | - | - | - | A | 8/8-30(7)-9/26 | A | A | A-8/13(88) | 8/12→ |
| SNOWY | - | - | - | - | - | - | - | - | - | - |
| HERON, LITTLE BLUE | - | - | - | - | - | - | - | - | 8/11-13(26)-9/7 | - |
| HERON, GREEN | A | →9/7 | - | →8/27 | A-7/31(5) | 7/12-8/30 | 8/29 | 8/28-29 | 7/19-9/19(4) | - |
| NIGHT-HERON, BLACK-CROWNED | - | - | - | - | - | →8/23(4) | A | →9/24 | A-8/2(4) | - |
| VULTURE, BLACK | - | - | - | - | A | - | A | A | A-7/18(3) | - |
| TURKEY | R | A | A | →9/21 | R | A | A | A | R | A |
| GOOSE, SNOW | - | - | - | - | - | 9/26 | - | - | - | - |
| CANADA | R | R | - | R-7/1(25) | R | R-7/5(4650) | - | R | R | R |
| SWAN, MUTE | - | - | - | - | - | - | - | - | - | 9/12→ |
| DUCK, WOOD | - | - | - | - | R | 9/18(1030) | A | A | A-9/7(100) | A |
| GADWALL | R-7/15(7) | - | - | - | - | 8/30(6) | - | 8/26→ | - | SEP→ |
| WIGEON, AMERICAN | - | - | - | - | - | 9/6 | P | 9/16(4)→ | 9/7-10(3)→ | 8/21→ |
| DUCK, AMERICAN BLACK | - | - | - | - | R | 8/2(101) | A | R | R | SEP→ |
| MALLARD | R | R | - | R | R | R-9/26(1310) | R | R | R | A |
| TEAL, BLUE-WINGED | - | 9/21(133) | - | - | - | 7/26-9/19(24) | 8/29→ | 8/26-9/16(37)→ | 9/7→ | 8/21-SEP |
| SHOVELER, NORTHERN | - | - | - | - | - | 9/26(17) | - | 9/26→ | 9/7 | 8/29→ |
| PINTAIL, NORTHERN | - | - | - | - | - | - | - | - | A-9/19(26) | 8/21(7)→ |
| TEAL, GREEN-WINGED | - | - | - | - | - | 9/6(43) | - | 8/23→ | 8/2-9/79(100)→ | 8/21→ |
| DUCK, RING-NECKED | 7/18(3)→ | - | - | - | - | - | - | - | - | P |
| MERGANSER, HOODED | - | →9/23(7) | - | - | R | 7/26 | A | P | - | P |
| COMMON | - | - | - | - | R | - | A | 7/19 | - | P |
| DUCK, RUDDY | 8/14 | - | - | - | - | 8/8 | - | - | - | P |
| OSPREY | 9/18 | 9/20-23 | - | 8/28 | A | 8/23 | P | 8/26→ | 8/1-9/16(7)→ | 8/21→ |
| EAGLE, BALD | - | 6/4 | - | 8/13 | - | R-8/30(5) | P | R | 7/26→ | A |
| HARRIER, NORTHERN | A-9/18(7) | R | - | - | A | 7/26-9/19 | P | P | 9/19→ | P |
| HAWK, SHARP-SHINNED | A | R | - | R | R | 7/18 | R | R | 8/7-9/23(10)→ | R |
| COOPER'S | A-9/18(25) | R | - | R | R | 8/16-23 | R | R | R-9/23(5) | R |
| GOSHAWK, NORTHERN | - | →8/7 | - | R | - | - | P | P | 9/23 | - |
| HAWK, RED-SHOULDERED | - | A | - | - | - | 8/30 | P | R | 7/31-9/23 | P |
| BROAD-WINGED | A-9/18(1445) | →9/20(16);23 | - | →8/20 | P | →8/30 | A | A | A-9/12(119) | P |
| RED-TAILED | R | R | R | R | R | R | R | R | R | R |
| KESTREL, AMERICAN | R | R | R | R | R | R | R | R | R | R |
| MERLIN | - | 8/7 | - | - | - | - | 9/20 | - | 9/7→ | 9/19 |

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| | CARBON | CLARION | CLEARFIELD | CLINTON | COLUMBIA | CRAWFORD | CUMBERLAND | DAUPHIN | DELAWARE | ERIE |
|----------------------------|------------|------------|------------|---------|-----------|-------------------|------------|--------------------|---------------------|------------|
| FALCON, PEREGRINE | - | 9/20 | - | 7/30 | - | 8/3 | A | R | R | - |
| BOBWHITE, NORTHERN | - | - | - | - | R | - | - | - | A | - |
| RAIL, VIRGINIA | - | - | - | - | - | - | - | - | 8/9 | P |
| SORA | - | - | - | - | - | 8/30 | - | 9/21 | - | P |
| MOORHEN, COMMON | - | - | - | - | - | 7/18-8/16(6)-9/19 | - | - | - | P |
| COOT, AMERICAN | - | - | - | - | - | - | - | A | - | P |
| FLOWER, BLACK-BELLIED | - | - | - | - | - | - | - | 8/26-9/23 | 9/7-13(3) | AUG→ |
| AMERICAN GOLDEN | - | - | - | - | - | 9/26 | - | 9/3-26(3)→ | 9/19 | 9/2-20 |
| SEMPALMATED | - | - | - | - | - | 7/6-8/30(18) | 9/5 | 8/5-9/7(8)→ | 8/5-9/7(8)→ | JUL→ |
| KILLDEER | A-9/5(12) | A-9/17(23) | →9/15 | - | A | 9/6(128) | A | A | R-9/7(37) | A |
| YELLOWLEGS, GREATER | - | - | - | - | 9/24 | 9/26(12) | A | 8/10-9/23(4) | 7/11-9/19(13)→ | P |
| LESSER | - | - | - | - | - | 7/26(19) | A | 8/9-9/22(39)→ | 7/11-9/19(52)→ | P |
| SANDPIPER, SOLITARY | - | - | →9/15 | - | A-9/16(3) | 7/9-12(3)-8/8 | P | 7/19-SEP | 7/18→ | P |
| SPOTTED | - | - | - | - | - | 7/5-9/19 | P | A | A-8/1(4) | A |
| SANDLERLING | - | - | - | - | - | - | P | - | 8/29 | JUL→ |
| SANDPIPER, SEMIPALMATED | - | - | - | - | - | 7/9-8/16(30)-9/7 | P | 8/9-9/25(6) | 7/11-8/2(1500)-9/19 | 7/19(12) |
| WESTERN | - | - | - | - | - | 8/23 | - | 9/1-7 | 7/18-8/2(25)→ | - |
| LEAST | - | - | - | - | - | 7/2-8/16(45)-9/7 | P | 7/29-8/30(25)-9/23 | 7/5-8/2(500)-9/20 | JUL→ |
| WHITE-RUMPED | - | - | - | - | - | 8/30 | - | 9/18 | 8/9-9/7 | 8/18 |
| BAIRDS | - | - | - | - | - | 8/23 | 9/19 | 9/1-18 | 9/3-7 | 8/29-9/2 |
| PECTORAL | - | - | 9/15 | - | - | 7/3-9(12) | P | 8/21-9/23(9) | 7/6-9/19(28)→ | P |
| DUNLIN | - | - | - | - | - | - | - | 8/27 | - | SEP |
| SANDPIPER, STILT | - | - | - | - | - | - | - | 8/29-9/5 | 8/8-9 | - |
| DOWITCHER, SHORT-BILLED | - | 9/23(3) | - | - | - | 7/7-8/29(14) | 9/5 | 9/23 | 9/19-20 | JUL-8/29 |
| SNIFE, COMMON | - | - | - | - | - | 8/29(14) | - | 9/26 | 9/7(3)→ | JUL→ |
| WOODCOCK, AMERICAN | - | - | - | - | A | P | A | P | - | P |
| GULL, RING-BILLED | - | - | - | - | - | 9/26(2205) | A | A | A | A |
| HERRING | - | - | - | - | - | 8/2(100) | A | A | A | A |
| GREAT BLACK-BACKED | - | - | - | - | - | - | A | A | A | A |
| TERN, CASPIAN | 8/15 | - | - | - | - | 8/23-29 | 9/18(4) | 8/15-9/16(4)-25 | 7/11-8/28(4)-9/10 | A-9/29(22) |
| COMMON | - | - | - | - | - | - | - | - | 8/9 | 8/21-SEP |
| FORSTER'S | - | - | - | - | - | - | - | 8/8-13 | 7/26-8/30(88)→ | 8/18→ |
| BLACK | - | - | - | - | - | - | - | 9/19 | 8/26 | - |
| CUCKOO, BLACK-BILLED | - | - | - | - | - | - | P | 8/12 | - | - |
| YELLOW-BILLED | →8/22 | - | - | →7/11 | - | - | P | →8/9 | →7/27 | P |
| YELLOW-BILLED | - | - | - | →7/11 | P | - | P | →9/24 | A-8/30(3) | P |
| OWL, BARN | - | - | - | R(7) | R | - | - | - | - | - |
| BARRED | R | R | R | R | R | R | R | R | R | R |
| NIGHTHAWK, COMMON | - | →8/27(5) | - | - | - | 6/18-9/5 | →9/4(50+) | →9/2(25+)-3 | 8/18-22(74)-9/20 | P |
| WHIP-POOR-WILL | - | - | - | 7/12 | - | - | P | 9/15 | - | - |
| SWIFT, CHIMNEY | A-9/18(11) | A-9/23(64) | - | - | A | - | - | A | A | A |
| HUMMINGBIRD, RUBY-THROATED | A-9/21(4) | →9/13 | - | →9/13 | A | - | P | →9/25 | →8/19(4)-9/19 | A |
| WOODPECKER, RED-HEADED | - | - | - | - | - | - | R | - | - | A |
| SAPSUCKER, YELLOW-BELLIED | - | - | - | - | - | 8/3 | 9/20→ | 9/28→ | 9/26→ | A |
| FLICKER, NORTHERN | R | R | →9/15 | R | R | - | R | R | R | A |
| FLYCATCHER, OLIVE-SIDED | - | - | - | - | - | - | 8/27 | 9/5 | - | 9/10 |
| FLYCATCHER, GREAT-CRESTED | - | - | - | - | - | - | - | →9/22 | →8/20(10)-9/13 | P |
| WOOD-PEWEE, EASTERN | A | →7/22 | →9/15 | →8/3 | →9/13 | →7/18(6)-8/30 | A | - | 9/7 | 8/27 |
| FLYCATCHER, YELLOW-BELLIED | - | - | - | - | - | - | 9/17 | - | →7/19(6)-9/13 | P |
| ACADIAN | - | - | - | - | - | - | P | →AUG | - | P |
| ALDER | - | - | - | - | - | - | - | - | - | P |
| WILLOW | - | - | - | - | - | - | P | →AUG | →7/26(3) | P |
| LEAST | - | - | - | - | - | - | P | P | 9/13 | A |
| PHOEBE, EASTERN | - | A-9/23(7) | →9/15 | →9/30 | A | - | A | A | A | A |
| FLYCATCHER, GREAT-CRESTED | - | - | - | - | - | - | P | →9/13 | →7/19 | P |
| KINGBIRD, EASTERN | A | →8/18 | - | →7/30 | P | 8/8(8) | →9/17 | →SEP | →8/15(6)-28 | →SEP |
| VIREO, WHITE-EYED | - | - | - | - | - | - | - | →9/13 | →9/5(5)-27 | - |
| BLUE-HEADED | - | →9/19 | - | 8/6 | A | 8/16-9/6 | A | A | - | P |
| YELLOW-THROATED | - | - | - | - | - | - | P | →9/4 | →9/21 | 9/24 |

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| | CARBON | CLARION | CLEARFIELD | CLINTON | COLUMBIA | CRAWFORD | CUMBERLAND | DAUPHIN | DELAWARE | ERIE |
|------------------------------|--------|-------------|------------|---------|-----------|-----------|------------|-----------|----------------|-------|
| WARBLING | - | - | - | - | - | - | P | -AUG | -9/7 | A |
| PHILADELPHIA RED-EYED | - | - | -8/31 | -8/6 | - | - | 9/28 | 9/9 | 8/30-9/9 | SEP→ |
| CROW, FISH | - | A | - | - | A | - | A | -9/24 | A-9/9/12 | A |
| RAVEN, COMMON | - | R | R | P | R | - | R | R | R | - |
| LARK, HORNED | - | A-9/7(12) | - | A | R | - | R | R | - | - |
| MARTIN, PURPLE | - | - | - | - | P | - | P | - | - | P |
| SWALLOW, TREE | A | - | - | - | A | - | A | A | -JUL(300)-8/28 | -SEP |
| NORTHERN ROUGH-WINGED | - | - | - | - | A | - | A | A | A-8/2(1000) | -SEP |
| BANK SWALLOW | A | - | - | - | - | - | P | -AUG | -9/20(100) | P |
| CLIFF SWALLOW | A | - | - | - | - | 7/12(133) | P | -AUG | P | -SEP |
| BARN SWALLOW | A | -8/23(10) | - | -9/5 | A | - | P | -AUG | -9/5 | A |
| CHICKADEE, CAROLINA | - | - | - | - | - | - | R | R | R | - |
| BLACK-CAPPED CHICKADEE | R | R | R | R | R | R | R | R | R | R |
| NUTHATCH, RED-BREASTED | - | R | 9/15→ | A | A | - | A | - | - | P |
| CREEPER, BROWN | - | R | R | R | 9/27→ | - | A | R | - | P |
| WREN, HOUSE | A | -7/22 | - | - | P | - | A | A | -9/20 | A |
| WINTER WREN | - | -9/21 | - | R | - | - | A | - | - | SEP→ |
| MARSH WREN | - | 9/21 | - | - | - | - | - | - | -7/11(5)-9/13 | A |
| KINGLET, GOLDEN-CROWNED | A | - | - | R | 9/28(6)→ | - | A | SEP→ | 9/19→ | SEP→ |
| RUBY-CROWNED KINGLET | - | 9/21(4)-26 | - | - | 9/22(5)→ | - | A | 9/18→ | 9/12→ | SEP→ |
| GNATCATCHER, BLUE-GRAY | A | - | -9/1 | - | P | - | A | -9/9 | -8/15(5)-9/13 | P |
| VEERY | - | -7/22 | - | - | A | - | A | -AUG | P | A |
| THRUSH, GRAY-CHEEKED | - | 9/26 | - | - | - | - | P | - | 9/28 | SEP→ |
| SWAINSONS THRUSH | - | - | - | - | - | - | 9/28 | - | 9/29 | 9/29→ |
| HERMIT WOODPECKER | - | A | -9/19 | - | A | - | A | R | - | SEP→ |
| WOODPECKER | - | - | - | - | A | - | A | -9/4 | -9/26 | P |
| ROBIN, AMERICAN | - | R | -9/15 | A | R | R | R | R | R | R |
| CATBIRD, GRAY | - | -9/23 | - | - | A | - | A | A | A | A |
| THRASHER, BROWN | - | -9/21 | - | -8/27 | A-9/3(6) | - | A | A | A | A |
| PIPET, AMERICAN | - | - | 9/15 | - | - | - | P | 9/23 | - | SEP→ |
| WARBLER, BLUE-WINGED | - | - | - | - | - | - | P | -AUG | -9/8 | P |
| WARBLER, BLUE-WINGED | - | - | - | - | - | - | P | -9/9 | - | - |
| GOLDEN-WINGED WARBLER | - | - | - | - | - | - | P | 9/19 | 9/8-29 | P |
| TENNESSEE WARBLER | 9/5 | 9/20 | - | - | - | - | A | 9/6→ | 8/22→ | P |
| NASHVILLE WARBLER | - | 9/20(3)-23 | - | - | - | - | P | -9/19 | -9/17 | P |
| PARULA, NORTHERN | - | - | - | - | - | - | - | - | - | - |
| WARBLER, YELLOW | A | -7/18 | - | -9/11 | -7/30 | - | P | -AUG | -7/26(10)-9/12 | -SEP |
| CHESTNUT-SIDED WARBLER | -9/13 | -9/20(5) | - | - | - | - | A | -9/9 | -9/17 | -SEP |
| MAGNOLIA WARBLER | - | -9/21 | -9/15 | - | -9/13(3) | - | A | 8/26-9/27 | 8/20-9/13(5)→ | 8/20→ |
| CAPE MAY WARBLER | - | 9/20(4) | 9/4 | - | 9/13 | - | P | - | 9/8-9 | P |
| BLACK-THROATED BLUE WARBLER | - | -9/20(5)-21 | - | - | -8/2 | - | A | 8/26-9/28 | 8/29-9/1(4)→ | P |
| YELLOW-RUMPED WARBLER | - | -9/29(24) | 9/1-4 | 9/16 | A | 7/2 | A | SEP→ | 9/26→ | SEP→ |
| BLACK-THROATED GREEN WARBLER | - | A-9/20(6) | -9/1 | -8/6 | -9/10(15) | - | A | -9/24 | 9/1-8(4)→ | A |
| BLACKBURNIAN WARBLER | -9/13 | -9/13 | - | - | - | - | P | -SEP | 9/1-8 | P |
| PINE WARBLER | A | 9/20-26(7) | -9/15 | - | - | - | A | A | 9/19 | SEP |
| PRAIRIE WARBLER | - | -9/21(5)-26 | - | - | -8/29(3) | - | P | -AUG | -9/18 | - |
| PALM WARBLER | - | 9/15(11) | - | - | - | - | P | 9/6→ | 9/13(5) | P |
| BAY-BREASTED WARBLER | - | 9/20(3) | - | - | - | - | P | 9/23 | 8/31→ | P |
| BLACKPOLL WARBLER | - | 9/20(4) | - | - | - | - | P | - | 8/31-9/26 | P |
| CERULEAN WARBLER | - | - | - | - | - | - | P | -AUG | - | - |
| BLACK-AND-WHITE WARBLER | A | -9/27 | - | -8/6 | -9/10 | 8/8 | A | -SEP | 7/19→ | P |
| REDSTART, AMERICAN | - | -9/21 | - | -8/6 | -8/29(6) | 7/12 | A | -9/19 | A-9/13(5) | A |
| WARBLER, WORM-EATING | - | - | - | - | - | - | P | -AUG | 7/18-9/11 | - |
| OVENBIRD | - | - | - | - | P | - | A | -SEP | A | P |
| WATERTHRUSH, NORTHERN | - | 8/4 | - | - | - | - | - | -AUG | 9/7→ | P |
| LOUISIANA WATERTHRUSH | - | - | - | - | - | - | P | -AUG | -8/19 | - |
| WARBLER, KENTUCKY | - | - | - | - | - | - | P | -AUG | -8/15 | 8/27 |

SEASONAL OCCURRENCE TABLES - JULY THROUGH SEPTEMBER 1998

| | CARBON | CLARION | CLEARFIELD | CLINTON | COLUMBIA | CRAWFORD | CUMBERLAND | DAUPHIN | DELAWARE | ERIE |
|-------------------------|------------|------------|------------|---------|----------|----------|------------|---------|----------|------|
| CONNECTICUT | 9/5 | 9/15-27 | - | - | - | - | - | - | - | 9/3 |
| MOURNING | - | - | - | 7/26 | - | - | - | - | - | P |
| YELLOWTHROAT, COMMON | A | A-9/21(11) | - | - | A | - | A | A | A | A |
| WARBLER, HOODED | A | - | - | - | P | - | - | - | - | - |
| WILSON'S | - | - | - | - | - | - | - | - | - | - |
| CANADA | - | - | 9/4 | - | - | - | - | - | - | - |
| CHAT, YELLOW-BREASTED | - | - | - | - | P | - | P | - | - | - |
| TANAGER, SCARLET | A | - | 9/1 | - | - | - | - | - | - | - |
| TOWHEE, EASTERN | A | - | - | - | A | - | A | A | A | P |
| SPARROW, CHIPPING | - | - | - | - | - | - | - | - | - | - |
| FIELD | - | - | - | - | - | - | - | - | - | - |
| VESPER | - | - | - | - | - | - | - | - | - | - |
| SAVANNAH | - | - | - | - | - | - | - | - | - | - |
| GRASSHOPPER | - | - | - | - | - | - | - | - | - | - |
| HENSLOW'S | - | - | - | - | - | - | - | - | - | - |
| LINCOLN'S | - | - | - | - | - | - | - | - | - | - |
| SWAMP | A | A-9/21(5) | - | R | 9/20(2) | - | 9/18 | 9/26→ | 9/13 | SEP→ |
| WHITE-THROATED | - | - | - | - | - | - | - | - | - | - |
| JUNCO, DARK-EYED | - | - | - | - | - | - | - | - | - | - |
| GROSBEEK, ROSE-BREASTED | - | - | - | - | - | - | - | - | - | - |
| BLUE | - | - | - | - | - | - | - | - | - | - |
| BUNTING, INDIGO | - | - | - | - | - | - | - | - | - | - |
| BOBOLINK | - | - | - | - | - | - | - | - | - | - |
| BLACKBIRD, RED-WINGED | A-7/21(19) | - | - | - | - | - | - | - | - | - |
| MEADOWLARK, EASTERN | A | - | - | - | - | - | - | - | - | - |
| BLACKBIRD, RUSTY | - | - | - | - | - | - | - | - | - | - |
| GRACKLE, COMMON | A-8/15(93) | - | - | - | - | - | - | - | - | - |
| COBBIN, BROWN-HEADED | A-9/18(17) | - | - | - | - | - | - | - | - | - |
| ORIOLE, ORCHARD | - | - | - | - | - | - | - | - | - | - |
| BALTIMORE | - | - | - | - | - | - | - | - | - | - |
| FINCH, PURPLE | A | R-9/21(5) | - | - | - | - | - | - | - | - |

| | FAYETTE | FRANKLIN | FULTON | GREENE | HUNTINGDON | INDIANA | JEFFERSON | JUNIATA | LACKAWANNA | LANCASTER |
|----------------------------|---------|---------------|------------|--------|------------|-------------|-----------|------------|------------|------------|
| LOON, COMMON | - | - | - | - | - | 8/18 | - | - | - | - |
| GREBE, PIED-BILLED | 9/27(6) | 8/26→ | - | - | 8/23→ | 9/5-22(60)→ | - | - | - | 9/20(4)→ |
| CORMORANT, DOUBLE-CRESTED | - | 8/16 | - | - | 8/13(16)→ | 9/8(16)→ | - | - | - | A-8/22(45) |
| HERON, GREAT BLUE | R | A | A | A | A | A-9/22(7) | A | A | A | R-8/2(10) |
| EGRET, GREAT | 7/21 | 8/16(23)-9/22 | - | - | 7/5-8/13 | 8/11-9/22 | 7/26-9/19 | - | 9/19 | A-8/14(42) |
| SNOWY | - | - | - | - | - | - | - | - | - | 8/14(3) |
| HERON, LITTLE BLUE | - | - | - | - | - | - | - | - | - | 8/14-9/2 |
| HERON, GREEN | - | - | P | - | - | - | - | - | - | A |
| NIGHT-HERON, BLACK-CROWNED | - | - | - | - | - | - | - | - | - | A |
| VULTURE, BLACK | - | - | - | - | - | - | - | - | - | - |
| TURKEY | - | - | - | - | - | - | - | - | - | - |
| CANADA | →8/27 | R | A-9/22(17) | A | R | A-9/6(6) | 7/24 | A-7/18(45) | P | R |
| SWAN, MUTE | 8/1 | - | - | - | - | - | - | - | - | - |
| DUCK, WOOD | R | - | - | - | - | - | - | - | - | - |
| GADWALL | R | A-8/30(5) | A | A | A | A-9/22(143) | - | - | A | A |
| WIGEON, AMERICAN | - | - | - | - | - | - | - | - | - | - |
| DUCK, AMERICAN BLACK | R | - | - | - | - | 9/15→ | - | - | - | - |
| MALLARD | R | R | R | R | R | A-9/22(11) | - | - | P | R |

SEASONAL OCCURRENCE TABLES - JULY THROUGH SEPTEMBER 1998

| | FAYETTE | FRANKLIN | FULTON | GREENE | HUNTINGDON | INDIANA | JEFFERSON | JUNIATA | LACKAWANNA | LANCASTER |
|-------------------------|-----------|---------------|---------------|----------------|------------|---------------|-----------|-----------------|------------|--------------------|
| TEAL, BLUE-WINGED | - | 8/16(3) | - | - | 9/3 | 9/8-22(120)→ | - | P | →9/19(6) | 8/11-29 |
| TEAL, GREEN-WINGED | - | A | - | - | - | 9/5-22(16)→ | - | P | - | 8/11-24(10)→ |
| DUCK, RING-NECKED | - | - | - | - | - | - | - | - | - | 8/22 |
| MERGANSER, HOODED | - | - | - | - | - | A | - | - | - | - |
| COMMON | - | - | - | - | - | - | - | - | 9/19 | - |
| OSPREY | 9/3 | 8/16-9/28 | 8/30→ | - | A | 7/17-9/22 | 9/19 | 9/2→ | A | →9/20 |
| EAGLE, BALD | - | 8/16 | 8/30-9/15(9)→ | - | 8/22 | - | 9/19 | 8/25→ | P | R |
| HARRIER, NORTHERN | - | 9/27 | SEP(5)→ | - | 820 | 9/20→ | R | P | A | 8/22 |
| HAWK, SHARP-SHINNED | R | A | R | R | R | R | R | R | R | R |
| COOPER'S | R | A | R | R | R | R | R | R | R | R |
| GOSHAWK, NORTHERN | - | - | SEP→ | - | R | - | - | P | P | - |
| HAWK, RED-SHOULDERED | R | - | SEP→ | - | R | A | 9/19 | A | - | - |
| BROAD-WINGED | - | A | A | - | →9/28 | →9/22 | P | →9/22(57) | A | P |
| RED-TAILED | R | R | R | R | R | R | R | R | R | R |
| KESTREL, AMERICAN | R | R | R | R | R | R | R | R | R | R |
| MERLIN | - | - | SEP→ | - | 9/4→ | - | - | 9/6 | - | - |
| FALCON, PEREGRINE | - | - | SEP→ | - | - | - | - | - | - | - |
| BOBWHITE, NORTHERN | - | R | - | - | - | →7/5 | - | - | - | R |
| RAIL, VIRGINIA | - | - | - | - | - | - | - | - | P | - |
| SORA | - | - | - | - | - | - | - | - | P | 9/20(10) |
| MOORHEN, COMMON | - | - | - | - | - | - | - | - | P | - |
| COOT, AMERICAN | - | - | - | - | - | - | - | - | P | - |
| PLOVER, BLACK-BELLIED | - | 9/20-10/8 | - | - | 9/25→ | 9/15-26(89)→ | - | - | - | - |
| AMERICAN GOLDEN | - | - | - | - | - | - | - | - | - | 8/27 |
| SEMPALMATED | 9/3 | 8/16(8)-30 | - | - | - | 9/8-10 | - | - | - | 8/2(5)-30 |
| KILLDEER | →8/1 | R-8/16(76) | A | A | A | A-9/5(36) | A | A | A | A-8/23(84) |
| YELLOWLEGS, GREATER | - | 8/16→ | - | - | - | 8/13→ | - | - | P | 7/30(6)-9/20 |
| LESSER | 8/1-9/3 | 8/16-30 | - | - | - | 7/17-9/8 | - | - | P | 8/2-11(6)→ |
| SANDPIPER, SOLITARY | 8/1(11) | 8/16(7)-9/22 | - | - | 8/1 | 7/23-9/25 | - | - | 7/30-8/12 | 8/6-27 |
| SPOTTED | P | 8/5-9/19(4) | - | - | - | A-9/22(3) | →9/19 | P | 7/30-9/19 | A |
| SANDERLING | - | - | - | - | - | 9/5-10(2) | - | - | - | 8/22-27 |
| SANDPIPER, SEMIPALMATED | - | 8/16-30(6) | - | 7/26 | - | 8/7-18(6)-9/8 | - | - | 7/30(3) | 7/30-8/19(20)-9/20 |
| WESTERN | - | - | - | - | - | 8/10-24 | - | - | 8/30 | 8/30 |
| LEAST | 8/1-9/3 | 8/16(38)-9/22 | - | - | - | 7/5-9/10 | - | - | 7/30(6) | 7/30-8/19(70)-30 |
| WHITE-RUMPED | - | - | - | - | - | - | - | - | - | 8/30(3) |
| BAIRD'S | - | 8/30 | - | - | - | - | - | - | - | 7/30-8/30(5)→ |
| PECTORAL | - | 8/16(5)-9/22 | - | - | - | 7/10-9/8 | - | - | P | - |
| DUNLIN | - | - | - | - | - | 8/27 | - | - | - | 8/27-30 |
| SANDPIPER, STILLT | - | - | - | - | - | 8/10 | - | - | - | - |
| DOWITCHER, SHORT-BILLED | - | 8/16 | - | - | - | 8/10-9/13 | - | 8/2 | - | 8/11-14(15)-30 |
| SNIPE, COMMON | - | 9/15→ | - | - | - | 9/8-29(15)→ | - | P | P | - |
| WOODCOCK, AMERICAN | - | - | A | - | - | →7/4(4)-9/15 | P | A | A | A |
| GULL, RING-BILLED | - | - | - | - | - | A | - | A | P | A |
| HERRING | - | - | - | - | - | - | - | - | P | A |
| GREAT BLACK-BACKED | - | - | - | - | - | - | - | - | - | A |
| TERN, CASPIAN | - | - | - | - | - | 7/11-9/22 | - | - | - | 8/11-30(5) |
| COMMON | - | - | - | - | - | - | - | - | - | 8/19 |
| FORSTER'S | - | - | - | - | - | 7/22 | - | - | - | 7/16-8/19(30)→ |
| BLACK | - | - | - | - | - | - | - | - | - | 8/11-15(8)-9/8 |
| CUCKOO, BLACK-BILLED | - | - | P | P | →9/11 | →9/13 | P | P | →9/10 | 8/23 |
| YELLOW-BILLED | - | - | →8/13(4)-17 | P | P | - | P | →9/19 | →9/19 | 7/30-8/29 |
| OWL, BARN | - | R | R | R | R | R | R | R-8/16(13) | R | R |
| BARRED | R-9/28(3) | R | R | R | R | R | R | R | R | R |
| NORTHERN SAW-WHET | - | - | - | - | - | - | - | - | - | - |
| NIGHTHAWK, COMMON | - | 9/1-16(6) | →8/23(10)-24 | →8/24(32)-9/13 | →9/2 | →9/3(13)-13 | →9/19(5) | 8/7-30(65H)-9/5 | →8/31 | →9/4 |
| WHIP-POOR-WILL | - | - | →9/5(3)-16 | - | - | →7/18 | →9/19 | - | - | - |
| SWIFT, CHIMNEY | →8/1(65) | A-9/19(150) | →9/14 | A | A | A-8/18(38) | →9/19(44) | A | A | A |

SEASONAL OCCURRENCE TABLES - JULY THROUGH SEPTEMBER 1998

| | FAYETTE | FRANKLIN | FULTON | GREENE | HUNTINGDON | INDIANA | JEFFERSON | JUNIATA | LACKAWANNA | LANCASTER |
|----------------------------|-----------|-------------------|--------------|--------------|------------|-----------------|-----------|-----------|------------|---------------|
| HUMMINGBIRD, RUBY-THROATED | - | - | -9/24 | P | -9/13 | -9/14 | -9/19 | -9/13 | A | -9/20 |
| WOODPECKER, RED-HEADED | - | R | - | 7/1 | R | - | - | - | - | - |
| SAPSUCKER, YELLOW-BELLIED | - | - | - | - | 9/27→ | 9/21→ | R | 9/24(5)→ | P | - |
| FLICKER, NORTHERN | A-8/7(3) | A | R | R | R | A-8/9(7) | A | R | A | R |
| WOOD-PEWEE, EASTERN | - | A | -8/13(4)-9/8 | P | -9/19 | -9/18(4)-25 | A | P | -8/30 | -9/19 |
| FLYCATCHER, YELLOW-BELLIED | - | - | - | - | - | - | 9/19 | P | - | - |
| ACADIAN | - | - | -8/15 | P | - | -9/22 | -9/19 | P | P | P |
| ALDER | - | - | - | - | - | - | P | - | 7/19 | - |
| WILLOW | - | A | - | P | P | -7/19 | - | - | P | P |
| LEAST | - | - | - | - | - | -9/14 | -9/19 | - | 7/19→ | - |
| PHOEBE, EASTERN | - | A | A | A | A | A-9/29(9) | A | A | A | A |
| FLYCATCHER, GREAT CRESTED | - | - | -8/22 | P | -8/30 | - | A | P | P | -8/29 |
| KINGBIRD, EASTERN | - | A | -9/7 | -9/24 | -8/16 | -7/19(9)-9/8 | P | P | -8/30 | -8/29 |
| VIREO, WHITE-EYED | - | - | P | P | - | A-9/15(3) | - | P | - | -9/19 |
| BLUE-HEADED | - | - | 8/28→ | - | A | A-9/25(5) | A | A | A | - |
| YELLOW-THROATED | 9/27 | - | -9/6 | P | -9/1 | - | 9/19N | P | A | -8/29 |
| WARBLING | - | - | - | -9/1(9) | -8/3 | -9/18 | - | P | P | - |
| PHILADELPHIA | - | - | - | - | - | 9/18-21(3) | 9/19(3) | 9/24 | - | - |
| RED-EYED | -9/27 | -8/12(4) | -9/19 | P | -9/12 | -7/10(11)-9/24 | A | P | -9/20 | -9/19 |
| CROW, FISH | - | A | 9/28 | - | - | - | - | P | P | R |
| RAVEN, COMMON | R | R | R-7/2(5) | R | R | R-8/11(4) | R | R | R | - |
| LARK, HORNED | - | R | R | - | - | - | R | A | - | - |
| MARTIN, PURPLE | - | -8/1(41)-10 | P | -8/2(90+)-20 | - | - | - | -8/8(4) | -7/26 | P |
| SWALLOW, TREE | - | A | - | A | A | A-9/29(8) | P | A | -9/12 | A |
| NORTHERN ROUGH-WINGED | - | - | P | P | -8/30 | - | -9/19 | A | P | A |
| BANK | - | - | - | - | - | - | P | - | P | A |
| CLIFF | - | 8/12-16(200)-9/13 | 8/28 | - | -8/21 | - | - | P | P | - |
| BARN | -8/1(8) | A | -8/2(20)-28 | - | -9/12 | -9/8(14)-29 | P | A | -9/5 | A |
| CHICKADEE, CAROLINA | R | R | - | R | - | - | - | - | - | R |
| BLACK-CAPPED | R | R | R | - | - | - | - | - | - | R |
| NUTHATCH, RED-BREASTED | - | A | - | - | R | R | 9/19→ | P | R | - |
| CREEPER, BROWN | - | - | R | - | R | A | R | 9/24 | R | - |
| WREN, HOUSE | -8/27 | A | P | P | -9/19 | -7/10(4)-9/26 | A | A | -9/5 | -9/19 |
| WINTER | - | - | - | - | R | 9/21 | A | 9/24→ | P | - |
| MARSH | - | - | - | - | - | 9/22 | - | - | - | 8/23-9/20(6)→ |
| KINGLET, GOLDEN-CROWNED | - | - | 9/28→ | - | - | 9/6-23(4)→ | 9/19→ | - | R | - |
| RUBY-CROWNED | - | - | 9/28(7)→ | -9/30 | 9/20→ | 9/14-23(25)→ | 9/19(11)→ | 9/24(6+)→ | 9/27→ | - |
| GNATCATCHER, BLUE-GRAY | - | - | -9/8 | -9/7 | -8/30 | -9/8 | -8/4 | P | P | -8/29 |
| VEERY | - | - | - | - | - | - | A | - | P | -8/29 |
| THRUSH GRAY-CHEEKED | - | - | - | - | - | 9/22-24(3) | - | - | - | - |
| SWAINSONS | - | - | - | - | 9/12-20(3) | 9/8-14(20+)-30 | 9/19 | P | 9/5 | - |
| HERMIT | - | - | - | - | R | - | A | A | A | - |
| WOOD | - | A | -9/20 | -9/23 | -9/20 | -9/22 | A | P | -9/5 | A |
| ROBIN, AMERICAN | A-8/27(6) | R | R | R | R | R | R | A | R | R |
| CATBIRD, GRAY | -8/1 | A | -9/28 | -9/27 | A | A-9/29(12) | A | A | A | A |
| THRASHER, BROWN | -8/27 | A | -8/13 | -9/23 | -9/19 | -9/15 | - | P | P | A |
| PIPET, AMERICAN | - | 9/22 | - | - | - | 9/29→ | - | 9/24(30)→ | - | 9/20(4)→ |
| WARBLER, BLUE-WINGED | - | - | - | - | - | -9/8(5)-12 | P | - | - | -8/29 |
| GOLDEN-WINGED | - | - | - | - | - | -9/15 | - | P | P | - |
| TENNESSEE | - | - | - | - | - | 9/8→ | 9/19(5) | - | 9/12→ | 9/29(7) |
| NASHVILLE | - | - | 9/19 | - | 9/5-8 | 9/4-18(4)-24 | 9/19(6) | P | -9/12 | - |
| PARULA, NORTHERN | - | - | - | - | - | - | P | - | P | -9/19 |
| WARBLER, YELLOW | - | - | P | -7/29 | -8/18 | -8/18 | P | P | P | -9/20 |
| CHESTNUT-SIDED | - | - | - | - | -9/23 | -9/23 | P | 7/19-9/5 | - | -8/29 |
| MAGNOLIA | - | - | - | - | -25(4) | 8/27-9/21(9)-24 | A | P | 9/19-9/5 | 8/29-9/19 |
| CAPE MAY | - | - | 9/28→ | - | 9/2-25(18) | 8/18-9/8(10)-26 | 9/19(5) | 9/24(6) | 9/5→ | 8/29→ |
| BLACK-THROATED BLUE | - | - | 9/19(3)→ | - | -9/12 | 9/12-23 | A-7/15(9) | P | -9/26 | 8/29 |

SEASONAL OCCURRENCE TABLES - JULY THROUGH SEPTEMBER 1998

| | FAYETTE | FRANKLIN | FULTON | GREENE | HUNTINGDON | INDIANA | JEFFERSON | JUNIATA | LACKAWANNA | LANCASTER |
|---------------------------|---------|----------|----------------|--------|--------------|----------------|-----------|------------|---------------|-----------|
| YELLOW-RUMPED | - | - | 9/28(6)→ | 9/23 | A | 8/16-9/29(13)→ | →9/19 | A | A | P |
| BLACK-THROATED GREEN | 9/27 | - | 8/28-9/28(11)→ | - | A | A-9/8(15) | A | A | A | 8/29→ |
| BLACKBURNIAN | - | - | 9/20-28 | - | →9/25 | →9/22 | A | P | P | 8/29 |
| YELLOW-THROATED | - | - | - | P | - | →9/8 | - | - | - | - |
| PINE | - | - | →8/28 | - | →9/19 | →9/22 | 9/19 | P | P | - |
| PRAIRIE | - | - | P | - | →8/30 | →9/29 | →9/19 | P | 7/19→ | - |
| PALM | - | 9/24 | - | 9/22 | - | 9/4→ | 9/19(5) | P | - | - |
| BAY-BREASTED | - | - | 9/20 | - | - | 9/8-18 | 9/19(9) | P | P | 8/29 |
| BLACKPOLL | 9/13 | - | 9/20 | - | - | 9/8-12(3)→ | 9/19(7) | P | 9/23→ | - |
| CERULEAN | - | →8/12 | - | P | - | - | - | P | P | - |
| BLACK-AND-WHITE | - | →8/12 | P | - | →9/19 | →9/21 | A | A | A | →8/29 |
| REDSTART, AMERICAN | - | →8/12 | →8/28 | - | →9/5 | →9/23 | A | P | P | →8/29 |
| WARBLER, WORM-EATING | - | - | P | - | - | - | - | P | P | - |
| OVENBIRD | - | - | P | P | A | →9/22 | A | P | →9/19 | →8/29 |
| WATERTHRUSH, NORTHERN | - | - | - | - | - | - | - | - | P | 8/29 |
| LOUISIANA | - | - | P | →7/29 | - | - | P | P | →8/20 | - |
| WARBLER, KENTUCKY | - | - | - | P | - | - | - | - | - | - |
| CONNECTICUT | - | - | - | - | - | - | - | - | - | - |
| MOURNING | - | - | - | - | 9/13 | - | - | - | - | - |
| YELLOWTHROAT, COMMON | →9/27 | - | →8/28 | P | →8/27 | A-9/29(10) | 9/19 | - | - | - |
| WARBLER, HOODED | - | - | P | P | →8/23 | A-9/15(3) | A | P | →9/19 | A |
| WILSON'S | - | - | - | - | 9/13 | 9/2-14 | 9/19 | - | 9/5-12 | - |
| CANADA | - | - | - | - | →9/19 | →9/8 | 9/19 | P | P | 8/29 |
| CHAT, YELLOW-BREASTED | - | - | P | P | - | - | 9/19 | P | P | - |
| TANAGER, SCARLET | - | →8/12 | →9/19 | →9/24 | →9/27 | →9/24 | A | P | →9/19 | P |
| TOWHEE, EASTERN | →8/27 | A | →8/28 | A | A | A-9/24(13) | A | A | A | A |
| SPARROW, CHIPPING | →8/1 | - | - | A | A | A-8/9(22) | A | A | A | A |
| FIELD | →9/27 | A | R | A | R | A-8/30(8) | A | A | A | R |
| VESPER | - | - | P | - | - | - | A | A | P | R |
| SAVANNAH | - | - | A | - | - | - | A | A | P | R |
| GRASSHOPPER | - | →8/28 | P | P | - | 7/29 | P | P | P | - |
| HENSLOW'S | - | - | - | - | - | - | P | - | - | - |
| LINCOLN'S | 9/28 | - | - | - | - | 9/29 | 9/19(3) | - | - | - |
| SWAMP | - | A | - | - | - | A-9/5(4) | A | P | - | - |
| WHITE-THROATED | - | - | 9/28→ | - | 9/20→ | 9/23-24(10)→ | P | 9/24(6) | R | - |
| WHITE-CROWNED | - | - | - | - | - | - | - | 9/24 | - | - |
| JUNCO, DARK-EYED | - | - | 9/23→ | - | - | 9/25→ | R | 9/24 | R | - |
| GROSBEAK, ROSE-BREASTED | - | - | →9/19 | P | →9/19 | →9/8(4)-24 | →9/19 | P | →9/19 | P |
| BLUE | - | - | P | - | - | - | - | - | - | - |
| BUNTING, INDIGO | →8/1(5) | →9/22 | →9/28 | P | →9/19 | →8/9(4)-9/29 | →9/19 | P | →9/19 | →9/19 |
| BOBOLINK | - | - | - | A | - | - | P | P | 7/19 | A-9/20(9) |
| BLACKBIRD, RED-WINGED | - | A | A | A | →9/20 | A-9/26(25) | A | A | A | A |
| MEADOWLARK, EASTERN | - | A | R | A | - | - | A | A | P | P |
| BLACKBIRD, RUSTY | - | - | - | - | - | 9/26(3)→ | - | - | - | - |
| GRACKLE, COMMON | - | A | A | A | A | A-9/3(2500±) | A | A | A | R |
| COWBIRD, BROWN-HEADED | - | A | A | A | - | - | A | A | A | R |
| ORIOLE, ORCHARD | - | - | P | A | - | - | - | P | - | - |
| BALTIMORE | - | - | →8/25 | A | - | - | →9/19 | P | →9/19 | →8/29 |
| FINCH, PURPLE | R | - | - | - | - | A-9/12(4) | R | →7/11 | R | - |
| <hr/> | | | | | | | | | | |
| LAWRENCE | - | 9/19 | - | 9/22 | - | - | - | - | - | PERRY |
| LOON, COMMON | - | 8/12→ | - | - | - | - | - | - | - | 9/27 |
| GREBE, PIED-BILLED | 9/1→ | A | 9/22→ | - | 9/12-23 | - | P | 8/26→ | - | 9/27 |
| CORMORANT, DOUBLE-CRESTED | - | - | 9/22(25)→ | - | →9/23(22)-27 | - | P | A-8/29(10) | 8/11-9/15(9)→ | A |

SEASONAL OCCURRENCE TABLES - JULY THROUGH SEPTEMBER 1998

| | LAWRENCE | LEBANON | LUZERNE | LYCOMING | MERCER | MIFFLIN | MONROE | MONTGOMERY | MONTOUR | PERRY |
|----------------------------|--------------------|--------------|-------------------|-----------|------------------|----------------|-------------|-------------------|-------------|-------|
| BITTERN, AMERICAN | - | - | - | - | 9/10 | - | - | - | - | - |
| HERON, GREAT BLUE | R-8/12(7) | R | R | A | A-9/23(55) | R-8/6(8) | A | A | R-8/13(8) | A |
| EGRET, GREAT | - | 8/14(5)-29 | A-9/13(23) | - | 8/29-9/2(6)-27 | 8/4-18(6)-9/30 | - | 7/29 | 8/12→ | A |
| HERON, GREEN | →8/8(8) | →9/29 | →9/19(5) | →7/2 | →8/29 | A | A | →8/16(5)-28 | P | A |
| NIGHT-HERON, BLACK-CROWNED | - | - | →9/19 | - | - | - | - | 8/11-16 | 8/2 | P |
| VULTURE, BLACK | - | R | →9/19 | - | - | A-9/20(18) | - | R-9/24(16) | - | A |
| TURKEY | - | R | A | A-9/16(7) | A | A-8/18(16) | A | R | A | A |
| GOOSE, SNOW | - | A | 8/29E | R | - | - | - | 9/24(6)→ | - | - |
| CANADA | R | R | R | R | R | R-9/25(300±) | R | R | R-8/9(228) | R |
| SWAN, MUTE | - | A | A | - | A | R | A-8/21(4) | A | A | A |
| DUCK, WOOD | R-8/12(70) | A | R | - | A | R | - | A | - | - |
| GADWALL | - | - | 9/23 | - | - | - | - | - | - | - |
| WIGEON, AMERICAN | - | - | - | - | - | - | - | 8/23→ | - | - |
| DUCK, AMERICAN BLACK | - | R | R | - | 9/27→ | →7/10(5)-9/25 | A | 9/18(5)→ | A | - |
| MALLARD | R-8/8(70) | R | R | R | R | R-7/10(200+) | R | R | R-9/16(123) | R |
| TEAL, BLUE-WINGED | R | - | 9/14 | - | - | - | P | 8/23-9/7(20)-18 | - | 9/20 |
| SHOVELER, NORTHERN | - | - | - | - | - | - | - | 8/12-9/18(14)→ | - | - |
| PINTAIL, NORTHERN | - | - | - | - | - | - | - | 9/7(7)→ | - | - |
| TEAL, GREEN-WINGED | - | - | 9/12→ | 9/28(4) | 9/23 | - | - | 8/5-9/18(20)→ | - | - |
| MERGANSER, HOODED | - | - | - | - | - | - | P | - | - | - |
| COMMON | 9/13→ | - | R | - | - | - | A | - | - | - |
| OSPREY | 7/19→ | P | A | →9/29 | A | 9/5-19(32) | A-9/19(4) | A | - | P |
| EAGLE, BALD | - | P | A | →9/29(4) | →9/27 | 8/6-SEP(12) | P | A | →7/9* | A |
| HARRIER, NORTHERN | R | P | A | - | 8/11 | A-9/10(7) | A | - | - | - |
| HAWK, SHARP-SHINNED | R | R | R | R | R | R-9/20(20) | R | R | A | A |
| COOPER'S | R | R | R | R | R | R-9/15(5) | R | R | A | A |
| GOSHAWK, NORTHERN | R | R | R | R | R | - | R | - | - | - |
| HAWK, RED-SHOULDERED | R | R | →9/18(158) | - | R | - | A-9/19(410) | A | - | A |
| BROAD-WINGED | P | A | R | - | - | →9/14(489) | R | R | - | - |
| RED-TAILED | R | R | R | R | R | R-9/16(33) | R | R | R | R |
| KESTREL, AMERICAN | R | R | 9/16→ | - | 9/22 | 9/14 | - | 9/12 | - | - |
| MERLIN | - | P | A | →9/6 | - | - | - | 9/4 | - | P |
| FALCON, PEREGRINE | - | P | A | - | - | - | - | - | - | - |
| BOBWHITE, NORTHERN | JUL→ | 8/30 | A | 8/7-9/3 | - | - | - | - | - | - |
| RAIL, VIRGINIA | P | - | A | - | 7/5 | - | - | - | - | - |
| SORA | P | - | A | - | 9/13-14(2) | - | - | 9/2-9 | - | - |
| MOORHEN, COMMON | P | - | 9/19→ | - | - | - | - | - | - | - |
| COOT, AMERICAN | - | - | 9/19(3) | - | - | - | P | - | - | - |
| PLOVER, BLACK-BELLIED | - | - | 8/25 | - | 9/5-23(5)-27 | - | - | 8/14-9/30 | - | - |
| AMERICAN GOLDEN | - | - | 9/13-20(4)-24 | - | 9/5-23 | - | - | 8/23→ | - | - |
| SEMPALMATED | - | - | 7/17(4)-8/16 | - | 8/22(8+)-9/27 | - | - | 7/23-8/12(42)-9/7 | - | - |
| KILLDEER | →8/16(90+)-9/13 | R-8/14(150) | R-8/14(150) | A | A-9/23(240) | R-9/18(15) | - | A-8/13(80) | - | R |
| YELLOWLEGS, GREATER | 7/19-8/12(12)-9/12 | 8/14(3) | 8/12-9/20 | A | 8/12-9/27 | - | P | 7/29-31(6)→ | 9/15 | - |
| LESSER | 8/8-16(9)-9/12 | 8/14 | 7/19-8/19(8)-9/19 | - | 8/12-9/23(72)-27 | - | P | 7/22-8/14(30)→ | 8/13 | 7/30 |
| SANDPIPER, SOLITARY | 7/19(3)-9/12 | 7/18 | 8/9(5)-9/19 | - | 7/7-9/22 | - | P | 7/22-31(14)-8/23 | - | 8/27 |
| SPOTTED | A | →7/18 | A | →7/2 | →9/27 | 7/8(3) | A | 7/22-8/16(5)-9/8 | →7/9 | P |
| SANDERLING | - | - | - | - | 8/29-9/5 | - | - | 7/31-9/8 | - | - |
| SANDPIPER, SEMIPALMATED | - | - | 7/17-8/25(5) | - | 8/22-9/27 | - | P | 7/22-31(100)-9/16 | 8/13-15 | - |
| WESTERN | - | 7/18 | 7/18 | - | 9/23 | - | - | 8/3-11(3)-16 | - | - |
| LEAST | 8/8→ | 7/18(4)-8/14 | 7/12-8/16(30)-9/2 | - | 7/2-9/23(4)-27 | - | P | 7/22-8/16(179+) | 9/7(3) | - |
| WHITE-RUMPED | - | - | 7/19 | - | 8/22 | - | - | 8/26-9/8(5)→ | - | - |
| BAIRD'S | - | 8/14 | - | - | 8/29-30 | - | - | 8/22-9/18 | - | - |
| PECTORAL | 7/19-9/12 | 8/14 | 7/17-8/25 | - | 8/12-9/23(20)-27 | - | P | 7/23-9/8(18)→ | 9/7(3) | - |
| SANDPIPER, STILT | - | - | - | - | 8/10-30(4)-9/27 | - | - | 8/10-20(5)-9/16 | - | - |
| DOWITCHER, SHORT-BILLED | - | - | 8/23 | - | 7/5-8/29(5) | - | - | 8/3-14(6)-9/8 | - | - |
| SNIFE, COMMON | 9/12→ | - | 9/14 | - | →9/27 | - | - | 8/14-29 | - | - |
| WOODCOCK, AMERICAN | A | A | A | - | →SEP | - | A | - | - | A |

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| | LAWRENCE | LEBANON | LUZERNE | LYCOMING | MERCER | MIFFLIN | MONROE | MONTGOMERY | MONTOUR | PERRY |
|-------------------------|----------------|---------------|-------------|----------|--------------|--------------|------------|----------------|---------|--------------|
| ROBIN, AMERICAN | R | R | R | R | A | R-9/26(80+) | A | R | R | R |
| CATBIRD, GRAY | A | A | A | A | A | R-8/16(8) | A | A | A | A |
| THRASHER, BROWN | - | P | P | - | - | A-9/26(3) | - | - | - | - |
| PIBIT, AMERICAN | 9/27→ | - | - | - | 9/23(300)-27 | - | - | 9/7-23(30±)→ | - | 9/30(5) |
| WARBLER, BLUE-WINGED | →9/13 | P | - | - | →9/23 | →SEP | →8/10 | →8/30 | - | P |
| GOLDEN-WINGED | - | - | - | - | - | →AUG | P | - | - | P |
| TENNESSEE | - | 8/30(10)-9/13 | 9/19-27 | - | 9/15 | - | 9/19→ | 9/6-30 | - | P |
| NASHVILLE | 9/19→ | 9/13(3) | →9/22 | - | 9/5-23 | - | →9/12 | 9/14 | - | P |
| PARULA, NORTHERN | →9/27 | →9/19 | →9/19 | - | - | - | →9/19 | →9/11(10)-26 | - | P |
| WARBLER, YELLOW | P | →8/22 | →9/20 | - | →8/9 | →8/20(3) | →8/20 | P | P | P |
| CHESTNUT-SIDED | →9/12(4) | →9/13(15) | →9/20 | - | 9/24 | →AUG | →9/14 | →9/18 | - | P |
| MAGNOLIA | 9/12-19(14)-27 | →9/13(40) | →9/27 | - | 8/29-9/24 | - | →9/21 | 9/1-26 | - | P |
| CAPE MAY | - | - | 9/17-19 | - | 9/23 | SEP(5) | 9/19→ | - | - | P |
| BLACK-THROATED BLUE | 9/19→ | A | →9/17(6)-19 | - | 9/5-23 | 8/10(4)-9/20 | →9/14 | 8/28-9/5 | - | P |
| YELLOW-RUMPED | 9/27→ | - | A | - | 9/20→ | A | A-9/21(15) | 9/27→ | - | A |
| BLACK-THROATED GREEN | 9/12-19(14)-27 | 9/13(50H)-19 | →9/19 | A | 9/22-28 | - | A | 9/5-11(15±)-30 | 9/13 | 9/19(10) |
| BLACKBURNIAN | 9/12→ | 9/13(4) | →9/19 | - | 8/29-9/20 | →8/20 | →9/13 | 8/20 | - | P |
| YELLOW-THROATED | P | - | - | - | - | - | - | →7/12 | - | P |
| PINE | - | 8/30-9/13 | →9/13 | →9/8 | 9/9-12 | - | →9/19 | - | - | P |
| PRAIRIE | P | →9/13L | →9/15 | - | - | →JUL | →9/10 | →9/14 | - | P |
| PALM | - | 9/14 | 9/14 | - | 9/4-23 | - | 9/10(3)→ | 9/2-18(20±)→ | - | P |
| BAY-BREASTED | 9/12→ | 9/13(15) | 9/13→ | - | - | - | 9/14→ | - | - | P |
| BLACKPOLL | 9/19→ | 9/19→ | 9/16→ | - | 9/5-23 | - | 9/12→ | 9/14-29 | - | P |
| CERULEAN | →7/19(6) | - | - | - | - | →7/4 | P | - | - | P |
| BLACK-AND-WHITE | A | →9/19 | →9/19 | →8/1 | →8/29 | →8/20 | →9/14 | →9/29 | →8/6(3) | P |
| REDSTART, AMERICAN | →9/19 | →9/19 | →9/19 | →8/1 | →9/23 | →8/20 | →9/25 | P | →8/6 | P |
| WARBLER, WORM-EATING | - | - | - | - | - | →8/20 | →9/12 | P | - | P |
| OVENBIRD | →9/19 | →9/19 | →9/19 | →7/2 | →9/26 | →8/24 | →9/12 | →9/18 | P | A |
| WATERTHRUSH, NORTHERN | - | - | - | - | - | - | →8/21 | 9/4-26 | - | - |
| LOUISIANA | P | - | →8/16 | →7/18 | - | - | →8/7 | - | - | P |
| WARBLER, KENTUCKY | P | - | 9/14 | - | - | - | P | →8/30 | - | P |
| CONNECTICUT | - | - | 9/14 | - | - | - | - | - | - | 9/13 |
| MOURNING | 9/19 | 8/30 | - | - | - | - | - | - | - | - |
| YELLOWTHROAT, COMMON | A | A | A | →9/8 | →9/23 | →SEP | A | A | →9/6 | A |
| WARBLER, HOODED | P | - | - | - | →9/26 | →7/28 | →8/31 | - | - | A |
| WILSON'S | - | 9/13(3) | 9/5-27 | - | 9/1-12 | - | - | 9/11 | - | A |
| CANADA | - | →9/13 | →9/19 | - | 9/14 | - | →9/14 | 9/6 | - | P |
| CHAT, YELLOW-BREASTED | P | - | - | - | - | →8/10 | P | 9/11 | →7/8 | P |
| TANAGER, SCARLET | →9/12 | →9/19(7) | →9/22 | →8/30 | →9/14 | →9/20(35+) | →9/14 | →9/26 | P | A |
| TOWHEE, EASTERN | A | R | A | →8/1 | A | →SEP | A | A | A | A |
| SPARROW, CHIPPING | A | A | A | P | A | A-8/10(9) | A | A | A | A |
| FIELD | A | R | R | P | A | A | A | A | A | A |
| VESPER | - | - | - | - | - | - | P | - | - | A |
| SAVANNAH | 8/8 | R | A | - | A | →AUG | P | 9/14-30(40±)→ | →7/14 | A |
| GRASSHOPPER | P | P | - | - | - | - | - | - | - | A |
| HENSLOW'S | P | - | - | - | - | - | - | - | - | - |
| LINCOLN'S | - | - | 9/16-19 | - | 9/13 | - | - | 9/26(7)→ | - | 9/18-27(10)→ |
| SWAMP | R | R | R | R | A | - | - | 9/7(3)→ | - | A |
| WHITE-THROATED | 9/19→ | 9/19(30)→ | R | R | 9/22→ | - | A | 9/26→ | 9/29→ | 9/19(4)→ |
| WHITE-CROWNED | - | - | - | - | 9/23 | - | - | - | - | - |
| JUNCO, DARK-EYED | - | R | R | R | 9/30→ | 8/6→ | R | - | - | 9/27 |
| GROSBEAK, ROSE-BREASTED | →9/12 | →9/19(6) | →9/19 | - | →9/26 | - | →9/19 | 8/12-9/17 | P | A |
| BLUE | - | - | - | - | - | - | - | →8/8 | - | - |
| BUNTING, INDIGO | A | P | A | →7/2 | →9/28 | →8/6(8)-30 | →9/19 | →9/23 | P | A |
| BOBOLINK | →7/19(37)-8/12 | →7/18 | →8/23 | - | →9/26 | - | P | →8/1(200+)-9/7 | A | P |
| BLACKBIRD, RED-WINGED | 8/8(300H) | R | A | - | A | A | A | A | A | A |
| MEADOWLARK, EASTERN | P | R | A | - | A | A | A | A | - | A |

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| | LAWRENCE | LEBANON | LUZERNE | LYCOMING | MERCER | MIFFLIN | MONROE | MONTGOMERY | MONTOUR | PERRY |
|----------------------------|------------------|-------------|--------------|--------------|-----------|------------|----------|----------------|----------------|-------------|
| BLACKBIRD, RUSTY | - | - | - | 9/28 | 9/23(6) | - | - | 9/27→ | - | - |
| GRACKLE, COMMON | P | R | A-9/20(1000) | - | A | A | A | A | A | A |
| COWBIRD, BROWN-HEADED | P | R | A | - | A | A | -8/21 | A | A | A |
| ORIOLE, ORCHARD | P | P | - | - | P | - | P | -8/11 | - | - |
| BALTIMORE | P | P | -8/23 | -8/26 | -8/2 | -8/10 | -8/24 | -8/26 | -8/22 | A |
| FINCH, PURPLE | - | - | R | - | A | AUG | R | - | - | - |
| <hr/> | | | | | | | | | | |
| PHILADELPHIA | PIKE | POTTER | SCHUYLKILL | SOMERSET | SULLIVAN | TIOGA | VENANGO | WESTMORELAND | WYOMING | YORK |
| LOON, COMMON | 8/9 | A | - | - | -8/3 | - | 8/29 | - | - | - |
| GREBE, PIED-BILLED | 9/19→ | 8/28→ | 9/11→ | 8/30→ | - | 9/24-30 | 8/29 | - | 9/29→ | - |
| CORMORANT, DOUBLE-CRESTED | A-9/29(8) | 8/23→ | 7/18→ | 8/6-9/23(3)* | AUG | -8/20(11) | - | A-9/21(18) | 9/30 | A |
| BITTERN, AMERICAN | - | - | - | - | 7/28 | - | - | 9/30 | - | - |
| HERON, GREAT BLUE | A-8/9(41) | R | A | -8/20 | A | R | R | R | A-9/19(31) | R |
| EGRET, GREAT | A-8/9(142H) | 8/20(9)→ | 7/20-30(6)→ | 8/3(7) | - | 8/3(3)-21 | 8/28-9/1 | 7/5-8/7 | 7/27(13)-9/15* | A-7/31(35) |
| SNOWY | 8/9-20(13H)-9/19 | 8/7 | - | - | - | - | - | - | - | 8/3 |
| HERON, LITTLE BLUE | 8/9(3)-9/19 | A | A | - | - | - | - | - | - | 7/29 |
| HERON, GREEN | -8/9(6) | A | A | -8/5(6) | - | -8/8 | A | A | -8/19 | A |
| NIGHT-HERON, BLACK-CROWNED | -8/9(5) | - | - | - | - | - | - | - | - | A |
| VULTURE, BLACK | 9/28→ | - | -8/2 | - | - | - | - | - | - | R |
| TURKEY | A-7/9(6) | A | A | A | A | A | A | A | A | R |
| CANADA | R-9/29(70) | R | R | R-9/28(183) | R | R | R | R | R | R |
| SWAN, MUTE | A | R | A | - | - | - | - | - | - | R |
| DUCK, WOOD | A-8/22(100) | A | R | A-8/30(17) | -8/31(15) | A-9/24(14) | - | A | A | R-8/26(48) |
| GADWALL | 8/22→ | - | 9/19 | - | - | - | - | 9/21(3)→ | - | - |
| WIGEON, AMERICAN | - | - | - | - | - | - | - | P | 9/29→ | A |
| DUCK, AMERICAN BLACK | A | A-8/23(8) | - | - | - | - | - | - | - | - |
| MALLARD | R-7/19(92) | R | R | R | A | R | R | R | R | R |
| TEAL, BLUE-WINGED | 8/9-15(6)→ | 8/23(6)→ | 9/29(6) | 8/30 | 9/1 | - | - | 8/24-9/21(30)→ | 7/20→ | 9/5→ |
| SHOVELER, NORTHERN | 8/15 | - | - | - | - | - | - | 9/22 | - | - |
| PINTAIL, NORTHERN | 8/12-9/5(4)→ | - | - | - | - | - | - | 8/27 | - | - |
| TEAL, GREEN-WINGED | 8/15-9/19(10)→ | - | - | - | - | - | - | P | 8/24-9/2(9)→ | 9/19→ |
| MERGANSER, HOODED | - | P | - | - | 9/23(18) | - | - | - | - | - |
| COMMON | R | A | - | - | 7/7 | - | 7/17(4) | - | - | - |
| OSPREY | A | A | A | A | - | R | R | P | R | A |
| EAGLE, BALD | 9/1-12 | A | P | - | 7/26 | -8/28 | - | P | 7/30→ | A |
| HARRIER, NORTHERN | 9/19 | A | A | 8/9-9/8(12)→ | - | R | A | - | A | R |
| HAWK, SHARP-SHINNED | R | R | R | R | R | R | R | P | 9/19 | 8/23→ |
| COOPER'S | R | R | R | R | R | R | R | R | R | 8/15→ |
| GOSHAWK, NORTHERN | - | R | R | R | R | - | - | R | 8/28 | - |
| HAWK, RED-SHOULDERED | 9/22 | R | R | - | A | - | A | A | - | R |
| BROAD-WINGED | -8/19 | A-9/18(560) | P | - | A | - | A | A | -8/19 | -9/18(5000) |
| RED-TAILED | R | R | R | R | R | R | R | R | R | R |
| KESTREL, AMERICAN | R | R | R | R | R | R | R | R | R | R |
| MERLIN | 9/18-19 | 8/8 | - | 9/3-13(5)→ | - | - | - | 9/12 | - | - |
| FALCON, PEREGRINE | R | - | - | 8/28→ | - | - | - | 9/28 | - | 9/26 |
| BOBWHITE, NORTHERN | - | - | R | - | - | - | - | R | - | R |
| RAIL, VIRGINIA | -8/19 | 8/28 | - | 9/5 | - | A | - | - | - | - |
| SORA | - | - | - | - | - | -8/27 | - | 9/8→ | - | - |
| MOORHEN, COMMON | A-8/19(12) | P | - | - | - | - | - | - | - | - |
| COOT, AMERICAN | 8/15→ | P | - | - | - | - | - | 7/11→ | 9/29→ | - |
| PLOVER, BLACK-BELLIED | 8/22 | - | - | - | - | - | - | - | - | - |
| AMERICAN GOLDEN | - | - | - | - | - | - | - | - | - | 9/19 |
| SEMPALMATED | 8/9-9/5(8) | - | - | - | - | - | - | 8/3 | 8/31 | - |

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| | PHILADELPHIA | PIKE | POTTER | SCHUYLKILL | SOMERSET | SULLIVAN | TIOGA | VENANGO | WESTMORELAND | WYOMING | YORK |
|----------------------------|-----------------|-----------|----------|------------------|----------|--------------|----------|---------|----------------|-----------------|-----------|
| KILLDEER | A-7/19(6) | A | A | A | A | - | A | A | A-7/11(24) | A-8/28(31) | A |
| YELLOWLEGS, GREATER | 8/9-17(10)-9/19 | 9/2-14 | - | 8/5 | - | - | - | - | P | 9/9-18(3)→ | 9/13→ |
| LESSER | 7/19-9/19(22) | 9/2-14(6) | 9/19 | 7/30-8/8(6)-20 | - | - | - | - | 7/11→ | 7/29-8/28 | 7/29→ |
| SANDPIPER, SOLITARY | 8/9-25 | 8/7→ | 9/19 | 7/27-8/8(8)-9/19 | 8/7-9/4 | - | 9/29 | 7/14 | 7/11-8/30 | - | 7/31→ |
| SPOTTED | →8/9(5)-22 | A | A | A | - | - | →7/6 | A | →8/29 | →9/16 | A |
| SANDPIPER, SEMIPALMATED | 7/9-8/22(90) | 8/22(6) | - | 8/5-20 | - | - | - | 7/14 | 8/13 | - | 9/5-19 |
| WESTERN | 8/9-15 | - | - | - | - | - | - | - | - | 9/8-9 | - |
| LEAST | 7/1E-8/9(75)-22 | 8/15-22 | - | 7/30-8/20(5) | - | - | - | 7/18(6) | 7/4-11(10)-8/1 | 8/17-19(8)-9/12 | 7/31→ |
| WHITE-RUMPED | 8/9-20 | - | - | - | - | - | - | - | - | - | 8/2 |
| PECTORAL | 8/9-9/5(16)→ | P | - | 9/5(4) | - | - | - | 7/28 | 8/1-29 | - | 9/5→ |
| SANDPIPER, STILT | 8/20(3) | - | - | - | - | - | - | - | 7/14-20 | - | 9/5 |
| DOWITCHER, SHORT-BILLED | - | - | - | - | - | - | - | - | - | - | - |
| SNIPE, COMMON | - | - | - | 7/21(7)-9/29 | - | - | - | - | 8/30→ | - | 9/23→ |
| WOODCOCK, AMERICAN | A | P | P | A | A | - | - | - | A | - | - |
| GULL, RING-BILLED | A-8/22(19) | P | P | P | - | - | A | - | A | 7/29 | A |
| HERRING | A | P | - | 9/8→ | - | - | 9/24-30 | - | - | - | A |
| GREAT BLACK-BACKED | 8/29 | - | - | - | - | - | - | - | - | - | A |
| TERN, CASPIAN | - | - | - | - | - | - | - | - | - | - | - |
| COMMON | 8/22 | - | - | - | - | - | - | - | - | - | - |
| FORSTER'S | A-8/29(81) | - | - | - | - | - | - | - | - | - | - |
| BLACK | - | - | - | - | - | - | - | - | - | - | - |
| CUCKOO, BLACK-BILLED | - | →9/12 | →8/10 | →8/9 | →8/5 | - | →8/5 | - | →9/28 | - | 8/18(16) |
| YELLOW-BILLED | - | →9/26 | →8/10 | →9/19 | P | - | - | - | A | →7/26 | →9/10 |
| OWL, BARN | R | P | - | R | * | - | - | - | R | - | →9/16 |
| BARRED | - | R | R | R | R | R | R | R | R | R | R |
| NORTHERN SAW-WHET | - | R | 9/23(4)→ | R | - | R | R | R | R | R | R |
| NIGHTHAWK, COMMON | →9/8(20)-19 | →9/1(80) | - | →9/19 | →9/5(12) | - | 9/1(4)-2 | A | A-8/26(134) | - | →9/13 |
| WHIP-POOR-WILL | →8/24 | P | 7/3 | P | - | - | - | - | - | - | 7/25 |
| SWIFT, CHIMNEY | →9/28(30) | A | 8/15 | A | P | →AUG | →8/9 | A | P | P | A |
| HUMMINGBIRD, RUBY-THROATED | →9/13 | A | A | A | - | →9/27 | →9/27 | A | A-8/21(11) | →9/19 | →9/26 |
| WOODPECKER, RED-THROATED | - | - | - | 9/12-29 | P | →7/26(5)-9/6 | - | - | - | 9/19 | R |
| SAPSUCKER, YELLOW-BELLIED | 9/26→ | R | A | 9/19→ | - | A | A | - | 9/25→ | A | 9/2→ |
| FLICKER, NORTHERN | R-9/28(9) | R | A | →9/19 | - | A | A | R | R | R | R |
| FLYCATCHER, OLIVE-SIDED | - | - | - | 8/28-9/13 | - | - | - | - | 8/22 | - | - |
| WOOD-PEWEE, EASTERN | →9/13 | A | →9/12 | A | - | - | →9/19 | A | →9/30 | →9/21 | A |
| FLYCATCHER, YELLOW-BELLIED | 9/12-13 | 9/7 | 8/30 | 9/18-19 | - | - | - | - | 8/6-9/28 | - | 8/24-9/26 |
| ACADIAN | →7/19(20) | →8/20 | - | →9/13 | - | - | - | - | →9/21 | - | →9/26 |
| ALDER | - | P | →7/21 | 7/2-9/11 | - | →7/28 | →8/3 | - | →7/31 | 7/30 | - |
| WILLOW | →9/5 | P | - | →9/19 | - | - | - | - | P | - | 7/31 |
| LEAST | 9/13 | P | →9/15 | →9/26 | - | - | →8/9 | - | →9/2(4)-19 | →7/24 | →9/11 |
| PHOEBE, EASTERN | A | A | A | A | P | →8/31(6) | A | A | A | A | A |
| FLYCATCHER, GREAT CRESTED | →9/19 | A | →8/22 | →9/19 | - | - | →8/20 | A | P | →7/15 | →9/11 |
| KINGBIRD, EASTERN | →8/9(15)-9/5 | →8/15 | →9/15 | →9/19 | →7/31 | →8/6 | →8/27 | A | P | →8/17(8)-9/2 | →9/26 |
| VIREO, WHITE-EYED | →9/5 | - | - | →9/19 | - | - | - | - | A | - | →9/29 |
| BLUE-HEADED | 9/13 | A | A | A | →9/8 | A | →9/26 | A | A-9/30(5) | A | →9/29 |
| YELLOW-THROATED | - | →8/22 | - | →9/22 | - | - | - | A | →9/18 | →9/19 | →9/5 |
| WARBLING | →9/5 | →8/22 | - | →9/13 | - | - | →7/10 | A | →9/21 | →9/19 | →9/22 |
| PHILADELPHIA | 8/31 | - | 9/12 | 9/4-10(4)-19 | 9/8 | - | - | - | 9/2-25 | 9/19 | - |
| RED-EYED | →9/19 | →9/19 | →9/28 | A | - | →SEP | →9/11 | A | →9/30 | A-7/14(18) | A |
| CROW, FISH | A | P | - | A-8/19(32) | - | - | - | - | - | - | R |
| RAVEN, COMMON | - | R | R | R | R | R | R | R | R | R | R |
| LARK, HORNED | - | - | - | P | - | - | A | - | A | R | 7/13(3) |
| MARTIN, PURPLE | 7/23-25(22)-8/9 | P | - | →9/1 | - | - | - | - | P | - | →7/18 |
| SWALLOW, TREE | A-8/20(10000H) | A | →8/22 | A | - | →AUG | →8/20 | A | P | - | A |
| NORTHERN ROUGH-WINGED | 8/20(2000H) | →9/15 | →8/22 | →9/6 | - | - | →9/4 | A | →8/1(5) | - | →9/28 |
| BANK | →8/9 | P | →8/22 | →8/25 | - | - | - | - | →8/3(40) | - | →9/26 |
| CLIFF | - | P | →8/15 | →8/25 | - | - | →8/20 | - | P | →7/2 | - |

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| | PHILADELPHIA | PIKE | POTTER | SCHUYLKILL | SOMERSET | SULLIVAN | TIOGA | VENANGO | WESTMORELAND | WYOMING | YORK |
|-------------------------|----------------|----------|-----------|-------------|-------------|-------------|-----------------|---------|----------------|----------------|-----------|
| BARN | -8/9 | -9/19 | -8/22 | A | - | -8/11(100) | -8/28 | - | P | -8/31 | -9/12 |
| CHICKADEE, CAROLINA | R | - | - | - | - | - | - | - | R | - | R |
| BLACK-CAPPED | - | R | R | R | R | R | R | R | R | R | R |
| NUTHATCH, RED-BREASTED | 9/19 | R | R | R | - | R | -9/16 | - | P | - | 9/19(4)→ |
| CREEPER, BROWN | - | R | R | R | - | R | R | R | A | R | - |
| WREN, HOUSE | A-7/5(4) | A | A | A | - | A | -9/23 | A | A | -9/19 | -9/12 |
| WINTER | 9/19→ | R | A | 7/24-9/28 | - | 7/15 | - | A | A | - | 9/17→ |
| MARSH | A-7/1(8) | R | - | - | - | - | - | - | 9/23 | - | - |
| KINGLET, GOLDEN-CROWNED | 9/29→ | R | - | R | 7/5 | R | - | - | A | 8/18→ | 9/19→ |
| RUBY-CROWNED | - | 9/19(4)→ | 9/7→ | P | - | - | - | - | 9/9→ | 9/19→ | 9/23→ |
| GNATCATCHER, BLUE-GRAY | -9/19 | -9/13 | -8/29 | A | - | -8/6 | -8/20 | A | -9/9 | -9/2 | -9/11 |
| VEERY | -9/19 | -8/16 | -9/20 | -9/19 | - | -7/7 | -7/15 | - | -9/13 | -9/10 | -9/29 |
| THRUSH GRAY-CHEEKED | 9/19 | - | 9/13→ | 9/30 | - | 9/26 | - | - | 9/11→ | - | 9/23-29 |
| SWAINSONS | 9/5-19 | P | 9/6→ | 9/19-30 | - | - | - | - | 8/31-SEP(311)→ | 9/19 | 9/9→ |
| HERMIT | - | -9/5 | A | A | - | A | -7/26 | A | A | - | 9/29→ |
| WOOD | -9/13 | -9/19 | A | A | - | - | -9/11 | A | A | -9/19 | -9/29 |
| ROBIN, AMERICAN | R-9/13(30) | R | R | R | A-7/25(100) | A | A | R | R | R | R |
| CATBIRD, GRAY | A-9/13(11) | A | - | - | -9/8(12) | A | A | A | A | A | A |
| THRASHER, BROWN | -7/5(6)-9/18 | -9/1 | A | -9/19 | - | - | -9/11 | A | A | -7/2 | -9/23 |
| PIPT, AMERICAN | 9/13 | - | - | - | - | - | - | - | - | - | - |
| WARBLER, BLUE-WINGED | -9/26 | -8/7 | -8/30 | -9/19 | - | - | -9/7 | A | - | - | -9/15 |
| GOLDEN-WINGED | - | P | - | 9/5-9 | - | - | - | - | -9/22 | - | - |
| TENNESSEE | 9/9-13 | -8/31 | 9/6→ | 8/29→ | 9/10 | - | - | - | 8/27-9/19(11)→ | 8/27 | 9/7-18 |
| NASHVILLE | 9/13 | -9/19 | 8/30→ | -9/19 | 8/18 | - | - | - | 8/27→ | - | 8/30-9/29 |
| PARULA, NORTHERN | -9/19 | -9/19 | -9/20 | A | - | - | - | - | -9/20 | -9/19 | -9/17 |
| WARBLER, YELLOW | -7/19(20)-9/19 | -8/22 | - | -9/4 | P | A | -8/9 | - | -8/5 | -7/27 | -8/13 |
| CHESTNUT-SIDED | -9/13 | -8/23 | -9/13 | -9/19 | -8/18 | -8/11 | -8/30 | A | -9/12(8)-28 | -8/26 | -9/19 |
| MAGNOLIA | 9/5-13(9) | -9/19 | A | -9/27 | -9/8(3) | - | - | - | A-9/22(22) | -9/19 | 8/20→ |
| CAPE MAY | 9/19 | 9/18→ | 8/30-9/26 | 8/25→ | 8/25(3) | - | - | - | 9/9-20(5)-28 | 8/28 | 9/4-18 |
| BLACK-THROATED BLUE | 8/22-9/19(6) | -9/14 | A | A | -9/25 | -8/31 | - | A | A-9/19(12) | 8/23→ | 8/20→ |
| YELLOW-RUMPED | 9/19→ | A | A | -7/10,8/29→ | - | A | -9/24(6) | A | 9/19→ | A | 9/22→ |
| BLACK-THROATED GREEN | 9/5(4) | A | A | A | -8/18 | -8/31 | -9/23 | A | A-9/17(9) | -9/19 | 8/20→ |
| BLACKBURNIAN | 9/5 | -9/22 | -9/6 | -9/19 | - | -9/1 | -9/18 | - | -9/28 | -9/19 | 8/28-9/24 |
| YELLOW-THROATED | - | - | - | - | - | - | - | - | P | - | -9/12 |
| PINE | -7/1 | -8/7 | - | -9/19 | 8/15 | - | - | - | - | -9/19 | A |
| PRAIRIE | - | P | - | -9/26 | - | - | 8/21-27 | -7/4 | P | - | -7/7 |
| PALM | - | 8/7→ | 9/13-19 | 9/19(20)→ | 9/25 | - | - | - | 9/23-28(9)→ | 9/19→ | 8/28-9/20 |
| BAY-BREASTED | 8/22 | 9/5→ | 8/30 | 8/30→ | - | - | - | - | 9/15-28 | - | 8/29-9/14 |
| BLACKPOLL | 9/13 | 9/9→ | 8/29-9/20 | 9/8→ | - | - | 7/20 | - | 8/30-9/30 | A | 9/4-29 |
| CERULEAN | - | P | - | P | - | - | - | - | -7/30 | - | P |
| BLACK-AND-WHITE | -9/19 | -9/19 | -9/19 | A | -8/5 | -8/6 | -8/22 | A | -7/30(5)-9/19 | -9/19 | 8/1→ |
| REDSTART, AMERICAN | A-9/13(10) | -9/19 | -9/12 | A | - | -8/6 | -8/23 | A | A-9/9(23) | -7/2(9)-8/27 | A |
| WARBLER, WORM-EATING | -7/19 | -8/7 | - | -9/11 | - | - | - | - | -9/20 | - | -8/30 |
| OVENBIRD | A | -9/19 | -9/27 | -9/19 | - | -8/6 | -8/22 | A | A | -7/21 | -9/14 |
| WATERTHRUSH, NORTHERN | 8/9-9/13 | P | - | 9/4 | - | -9/1 | - | - | 7/31-8/31(6)→ | - | - |
| LOUISIANA | -7/25 | -8/7 | - | -7/23 | - | - | - | - | -8/9 | -7/23 | -8/2 |
| WARBLER, KENTUCKY | - | - | - | - | - | - | - | - | -9/5 | - | -8/22 |
| KENTUCKY | - | - | - | 9/8-10 | - | - | - | - | 8/30-9/28 | - | - |
| CONNECTICUT | - | - | - | - | - | - | - | - | 8/20→ | - | 9/19 |
| MOURNING | - | - | -9/20 | - | - | -7/14(3)-15 | - | - | 8/20→ | - | 9/19 |
| YELLOWTHROAT, COMMON | A-8/22(6) | A | -9/24 | A | -9/8(6) | A | -7/29(20+)-9/26 | A | A-9/19(16) | -7/13(14)-9/19 | A |
| WARBLER, HOODED | 9/13(3H) | P | -9/27 | -9/26 | - | - | - | A | -9/9(7)-28 | -7/2 | -8/29 |
| WILSON'S | 9/12-19 | - | 8/30-9/7 | 8/26-9/19 | - | 9/1 | 8/5 | - | 8/20→ | 8/28-9/19 | 9/10 |
| CANADA | 8/16-9/13 | -8/23 | -8/23 | -9/19 | - | 8/8 | - | - | -9/18 | -7/9 | 8/19-9/19 |
| CHAT, YELLOW-BREASTED | - | - | - | -7/19 | - | - | - | - | -8/19 | - | -7/23 |
| TANAGER, SCARLET | A | -9/19 | -9/26 | A | -9/8 | -8/5 | -8/7 | A | -9/30 | -7/23 | -9/11 |
| TOWHEE, EASTERN | A | A | A | A | -9/8(4) | A | -9/28 | A | A | A | R |
| SPARROW, CHIPPING | A | A | A | A | -9/8(5) | A | A-9/2(8) | A | A | A | A |

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| | PHILADELPHIA | PIKE | POTTER | SCHUYLKILL | SOMERSET | SULLIVAN | TIOGA | VENANGO | WESTMORELAND | WYOMING | YORK |
|------------------------|--------------|------------|--------|------------|-----------|----------|-------|---------|--------------|-------------|----------|
| FIELD | A | A | →9/19 | A | A | →8/6 | →9/23 | A | A | A | R |
| VESPER | - | P | A | →7/19 | A | 8/21 | - | - | P | - | - |
| SAVANNAH | 9/19→ | P | P | 9/19-29 | A | →8/3 | →7/29 | A | →9/27 | 9/19 | - |
| GRASSHOPPER | - | - | - | →7/19 | A | - | - | - | →7/18 | →7/9 | →8/1 |
| HENSLOW'S | - | - | - | - | →7/12(20) | - | - | - | P | →7/24(6)-29 | - |
| LINCOLN'S | - | R-8/29(12) | R | 9/12-19 | SEP(12) | - | - | - | 9/11-29(11)→ | 9/19 | 9/17 |
| SWAMP | A | R | 9/19→ | A | A | A | R | A | A | A | R |
| WHITE-THROATED | 9/30→ | R | 9/19→ | 9/18(47)→ | - | R | A | - | 9/18→ | A | R |
| WHITE-CROWNED | - | - | 9/19→ | 9/24→ | - | - | 9/23→ | - | 9/22-30(11)→ | - | - |
| JUNCO, DARK-EYED | - | R | R | 7/5→ | - | R | R | R | R | - | - |
| GROSBEEK, ROSE-BREADED | 9/13-19 | →9/19 | →9/19 | A | →9/8 | →8/6(4) | →9/26 | - | A | →9/19 | A |
| BLUE | →8/22 | - | - | - | - | - | - | - | - | - | →9/28 |
| BUNTING, INDIGO | →8/9 | →9/16 | →9/27 | A | →9/8(95) | A | →9/9 | - | A-9/23(5) | - | A |
| BOBOLINK | →7/19(4)-9/5 | P | →8/15 | →7/12(3) | →7/12(3) | →AUG | →7/2 | A | →9/27(70) | →9/19 | →8/3(12) |
| BLACKBIRD, RED-WINGED | A-9/30(100) | A | A | A | A | →7/28 | A | A | A | A | R |
| MEADOWLARK, EASTERN | 9/29→ | P | A | A | A | →8/3 | A | A | A | A | R |
| BLACKBIRD, RUSTY | - | - | - | 9/29(6)→ | - | - | - | - | - | - | - |
| GRACKLE, COMMON | A-9/30(25) | A | A | A | →8/5(300) | A | →9/1 | A | A-9/29(3500) | P | R |
| COWBIRD, BROWN-HEADED | A-9/30(6) | →8/16 | P | A | - | A | A | A | A | P | R |
| ORIOLE, ORCHARD | →8/15 | - | - | →7/4 | - | - | →7/5 | - | →7/22 | - | →9/14 |
| BALTIMORE | →9/19 | →8/17 | P | →9/19 | A | →AUG | →8/23 | A | P | →8/27 | →9/12 |
| FINCH, PURPLE | - | R | A | 8/30(3)→ | - | R | R | R | R | 9/19 | - |

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