

Report of the Third Pennsylvania May Count

May 14, 1994

By Alan C. Gregory

A total of 412 Pennsylvania birders participated in the third annual North American Migration Count (NAMC), held, as usual, on the second Saturday in May (May 14), concurrent with the observance of International Migratory Bird Day. This represents an increase of 29 observers over the 1993 count. Birders in 30 Pennsylvania counties participated this year, an increase of two counties over 1993. The total cumulative number of birds counted across the state this year reached 113,764, a slight increase over the 107,193 individuals reported in 1993.

The top five counties in numbers of participants for 1994 were: Franklin, 47; Indiana, 45; Bucks, 33; Philadelphia, 29; and Westmoreland, 27. Sullivan County, which was new to the count this year, fielded 20 observers thanks to the team-building efforts of Nick Kerlin. This is especially noteworthy given the fact that this largely mountainous county has only approximately 6,000 permanent residents. Also joining the count roster for 1994 were Butler and Tioga counties. Those counties which participated in 1993 but not this year included Carbon, Clearfield, Delaware and Washington. Since not all county compilers listed the number of parties and party hours for their county, I cannot list a statewide total for those categories. County compilers are encouraged to fill out their reporting sheets as accurately as possible next year so that some indication of "effort" in the field can be arrived at. Still, the 1994 effort, while only a slight increase over the state's 1993 showing, illustrates a positive upward trend in participation, although the participation "curve" is now flattening out.

The NAMC represents a fine opportunity for bird clubs and local Audubon chapters to get more people involved in the observation, study and appreciation of Pennsylvania's birdlife. Certainly, education is a key to

preserving habitat. Only people who understand the diversity and importance of all wildlife will be willing to conserve it. And, combining local NAMC field trips and programs with the observance of International Migratory Bird Day can help educate the lay public specifically about the importance of conserving birds and their habitats in Pennsylvania.

WEATHER

The weather for the count day was benign over most of the state, with clear to partly cloudy skies the rule under a high pressure system, with cool morning temperatures and seasonal average (65 to 75 degrees Fahrenheit) high temperatures reported by most county compilers. Birding weather, then, was very favorable across the state, but certainly there was no major weather "event" cited by many birders in the past as the "agent" responsible for "fallouts" of migrating songbirds. For more on weather and migration, I refer readers to Paul Hess' article, "Migrant Numbers May Not Be What They Seem," in the Oct.-Dec. 1993 edition of "Pennsylvania Birds."

METHODOLOGY

For a full review of the NAMC methodology, I refer readers to Marshall Iliff's excellent overview in the April-June 1993 issue of "Pennsylvania Birds." The distinction between "regular," "stationary," "feeder watching" and "owling" is fairly well understood by most participants, but deserves the attention of county compilers, since the nationwide data base is dependent on the breakdown of data by category.

Few counties reported any significant nocturnal field work, although more observers may actually have logged nighttime party hours, but not reported their time on the county reporting forms. Overall, the numbers of nocturnal birds reported was much

in line with the 1993 effort. Here are some of the totals in this category for 1994: Barn Owl, 6; E. Screech Owl, 41; Great Horned Owl, 45; Barred Owl, 44; N. Saw-whet Owl, 1; Common Nighthawk, 41; and Whip-poor-will, 50. I encourage NAMC participants to make a greater effort at recording nocturnal birds, particularly the Common Nighthawk and Whip-poor-will, as these are species of special conservation concern. Documenting their presence (or disappearance from formerly occupied sites) is important as we struggle to understand the reasons behind their apparent population declines. As for owls, various writers have commented in the past about the tendency of Christmas Bird Count participants to stop searching for owls once they have recorded one or two individuals of each species as representative individuals for their count. I encourage NAMC participants to make a greater effort at conducting more extensive owl and nightjar censuses.

The top 20 most abundant birds reported this year were:

1. American Robin	7,763
2. European Starling	6,312
3. Common Grackle	5,912
4. Red-winged Blackbird	5,370
5. Gray Catbird	3,306
6. American Crow	3,261
7. Barn Swallow	3,185
8. Canada Goose	2,971
9. House Finch	2,848
10. Tree Swallow	2,770
11. American Goldfinch	2,557
12. Chimney Swift	2,494
13. House Sparrow	2,488
14. Common Yellowthroat	2,452
15. Mourning Dove	2,406
16. Chipping Sparrow	2,295
17. Brown-headed Cowbird	2,188
18. Blue Jay	2,089
19. Yellow Warbler	1,882
20. Red-eyed Vireo	1,858

Certainly these numbers reflect what most birders believe to be among the state's most common summer birds. The Canada Goose was not among the top 10 birds Iliff reported in

1993. Does its status as the No. 8 bird in the above list indicate an expanding population in the state? It might, but it might also only reflect a greater awareness of birders of its presence or a greater recording effort in favorable goose habitat. I caution readers from trying to "read" too much into these data, or from trying to infer any significant trends from the data. The NAMC is still very much in its infancy as far as the cumulative data base is concerned. Additionally, there are many, many variables at work in a bird count program of this type including weather, observer effort, numbers of observers, habitat variances, counties joining the count and counties dropping out, etc. As in most on-going count programs, only a long-term view produces enough data to extrapolate significant trends from. Root (1988), for example, analyzed a total of 10 years of Christmas Bird Count data in producing his "Atlas of Wintering North American Birds-An Analysis of Christmas Bird Count Data." I thus encourage all Pennsylvania NAMC participants to continue their efforts in a bid to generate that needed long-term data. Still, the top 20 list above does offer a basis for proclaiming certain species as among the most populous in the state. The list is also noteworthy as several of the top 10 species might be termed "generalists" in their habitat and feeding preferences, which might have significant meaning in terms of habitat destruction.

NOTES ON A HALF-HARDY SPECIES

Having stated that, I will now reverse direction, a bit, in looking at a half-hardy permanent resident, the Carolina Wren. The winter of 1993-94, a harsh one by anyone's description, probably severely reduced the numbers of this wren in the state. But how much? The 1994 NAMC data helps illustrate the severity of the winter kill. The 1993 NAMC produced a total statewide count of 456 Carolina Wrens. Observers this year, however, could find only 118 wrens. The 1993-94 Christmas Bird Count, on the other hand, produced a statewide tally of 2,989 wrens spread over 60 count circles. Certainly the CBC data base is much more extensive than the NAMC

figures and we'll have to wait for the 1994-95 CBC tallies to get a clearer picture of the Carolina Wren's current status in Pennsylvania. Still, the NAMC data gives a pretty clear indication that the past winter was not kind to this species. The Carolina Wren does not fare well under conditions of constant snow cover. And, in light of the fact that most of Pennsylvania's 1993-94 CBCs were held before the heaviest part of the winter came along, the NAMC data is particularly important in documenting the wren's winter-caused decline.

SOME NOTES ON RARE OR UNUSUAL SPECIES

Several county compilers included notes on rare or unusual species along with their data.

The rarest find was a well described Kirtland's Warbler in Franklin County observed by Kenneth Gabler, Delores Purnell, Charles Brightbill, and Robert Carmack. If accepted by PORC, this would constitute only the sixth record for the state.

Indiana and Philadelphia reported single Red-necked Grebes.

Indiana also reported a lone Northern Pintail and one Common Goldeneye.

Henslow's Sparrows were reported from Indiana, Lawrence, Clarion, Centre, and Wyoming counties. In Lawrence, Barb Dean reported Henslow's along the road at the Volant strip mines. "Three were atop grasses and throwing head back and calling their 'fish-lick' call," Barb wrote. The Indiana birds were noted from reclaimed strip mines west of Gipsy by Margaret Higbee.

The lone Northern Saw-whet Owl was heard by Bill Hendrickson in Elk County. Bill resides in Cameron County where this owl is a documented breeder.

Adams County reported eight Loggerhead Shrikes from that county's previously reported nesting site. Compiler Art Kennell noted three adults and five fledglings. And three

more shrikes were reported from Franklin County, where previous reports also have come from.

Cumberland County provided a well-documented Surf Scoter from Laurel Lake at Pine Grove Furnace. The bird was present for several days, both before and after count day, and was seen by several experienced birders.

A White-rumped Sandpiper on the North Branch Susquehanna River flats in Exeter was a good find in Luzerne County.

A Merlin on the Clarion County count was a nice find and was well documented by Ruth Schurr of Fisher, Pa. The bird was observed flying near the Clarion River.

A Peregrine Falcon was observed in Franklin County in an open area at a goldfish hatchery at Fort Loudon.

Several counties reported Black Terns.

Two reports of Fox Sparrows, an early spring migrant, came from Franklin County.

Boreal species were well reported, albeit in the usual low numbers. They included: Olive-sided Flycatcher, 2; Yellow-bellied Flycatcher, 2; Tennessee Warbler, 27; Bay-breasted Warbler, 83; Blackpoll Warbler, 79; Wilson's Warbler, 33; and Rusty Blackbird, 10. And, two Connecticut Warblers, always a rare find in spring, were reported from Wayne County by Voni and Joe Strasser. The Strassers also noted Alder Flycatcher at a site where they have found the species every year since 1982.

SOME COMMENTS FROM THE FIELD

"Beautiful day! Vireos started coming on April 27. Warblers and flycatchers and vireos in good supply. Could've upped the warbler count but couldn't get to all locations."

- Barb Dean, Lawrence County

"Overall, birds were scarce for the amount of time on foot. No wave of vireos/warblers as in 1992. The

vireos/warblers seen were local summer breeders."

- Gene Wilhelm, Butler County

"This was a good beginning, but there are some holes - there really are Swamp Sparrows and Kentucky Warblers breeding here. Missing Screech Owls is puzzling."

- Grace Randolph, Dauphin County

"I couldn't believe that on May 14 I would have to scrape the ice off my truck windshield, wear a down coat, gloves and boots! The early a.m. temperature was 22 degrees, finally heating up to 70. I was beginning to think I was going on the Christmas count. But, the birds were plentiful and the day was a lot of fun."

- Linda Christensen, Elk County

"We had a beautiful day for birding!"

- Kathy Kern, Greene County

CORRECTIONS

The Chuck-wills-widow reported from Juniata County for the 1993 count was a Whip-poor-will that was inadvertently listed on the wrong line of the county compiler's data sheet.

Add the following species to the 1993 Philadelphia Count: Mute Swan-2; Eastern Screech-Owl-15; Great Horned Owl-10.

Correct the totals for the 1993 Philadelphia Count as follows: House Wren-200; American Goldfinch-258; House Sparrow-452; Total Species-137; Total Individuals-14,552.

Add the following Owling data to the 1993 Philadelphia Count: Hours Owling-5; Miles Owling-4.5; #Parties Owling-4; #Observers Owling-5.

ACKNOWLEDGEMENTS

Thanks to Monica Gregory for her grateful assistance in computerizing the count data and deciphering some oftentimes difficult to read notes from the field. Thanks also to the publishers of *Pennsylvania Birds* for their patience while we computerized the data and sought out missing county reports.

THE 1995 COUNT

County compilers are encouraged to begin planning now for the 1995 count. The count will be conducted on Saturday, May 13. Copies of the NAMC data form for 1995 will be distributed by the state coordinator as soon as they are received from Jim Stasz, the national coordinator. Some county compilers suggested format changes for the reporting form and those ideas will be forwarded to Jim Stasz for his consideration. Remember, though, that the NAMC is a totally voluntary effort. All forms and copies of forms, mailings, etc., are done at personal expense by participants at all levels. ✪

REFERENCES

- Hess, P. (1994). Migrant numbers may not be what they seem. *Pennsylvania Birds*, 7(4), 131-132.
- Illiff, M. (1993). 2nd Pennsylvania Migration Count. *Pennsylvania Birds*, 7(2), 34-38.
- Root, T. (1988). *Atlas of wintering North American Birds: An analysis of Christmas Bird count data*. Chicago: University of Chicago Press.

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NORTH AMERICAN MIGRATION COUNT - MAY 14, 1994

ADAMS ALLEGHENYBEDFORD BERKS BLAIR BUCKSBUTLERCENTRE CLARION CUMBERLAND DAUPHIN ELK FOREST FRANKLIN GREENE HUNTINGDON INDIANA JUNIATA LAWRENCE LUZERNE

LOON, COMMON	-	-	-	2	-	2	-	1	3	5	2	1	-	1	-	-	4	-	-	1
GREBE, PIED-BILLED	-	-	-	-	-	-	-	3	-	1	-	-	-	-	-	-	-	-	3	-
HORNED	-	-	-	-	-	-	-	-	-	2	-	-	-	6	-	-	-	-	-	-
RED-NECKED	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
CORMORANT, GREAT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DOUBLE-CRESTED	-	-	-	12	-	27	-	4	3	1	7	-	3	-	-	-	3	2	-	1
BITTERN, AMERICAN	-	-	-	-	-	2	-	-	-	-	-	-	1	1	-	-	-	-	-	1
LEAST	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HERON, GREAT-BLUE	2	-	-	14	2	9	1	5	10	5	4	16	8	19	22	9	6	-	8	16
EGRET, GREAT	-	-	-	-	-	-	-	-	-	7	14	-	-	-	-	-	-	1	-	-
SNOWY	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HERON, GREEN-BACKED	-	1	-	5	1	11	1	8	7	14	5	-	-	10	-	6	5	-	3	7
NIGHT HERON, BLACK-CROWNED	-	-	-	3	-	-	-	-	-	40	3	-	-	-	-	-	-	-	-	-
YELLOW-CROWNED	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
SWAN, TUNDRA	-	-	-	-	-	-	-	-	1	-	-	-	-	2	-	-	-	-	-	-
MUTE	-	-	-	2	-	3	-	-	-	1	-	-	2	-	-	-	2	-	-	-
GOOSE, SNOW	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CANADA	27	22	12	227	87	366	10	40	179	160	138	91	144	197	31	34	140	16	65	100
DUCK, WOOD	-	-	1	-	-	19	2	9	22	18	2	14	24	37	1	7	17	3	9	15
DUCK, AMERICAN BLACK	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-
MALLARD	3	4	23	51	23	145	4	138	6	187	50	12	3	167	32	59	78	44	91	78
PINTAIL, NORTHERN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
TEAL, BLUE-WINGED	-	-	-	-	-	-	-	1	-	1	-	1	-	-	-	-	-	-	-	-
GADWALL	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WIGEON, AMERICAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-
DUCK, RINGED-NECK	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
SCAUP, GREATER	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LESSER	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-
SCOTER, SURF	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
GOLDENEYE, COMMON	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
BUFFLEHEAD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-
MERGANSE, HOODED	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-
COMMON	-	-	-	-	-	5	-	-	-	-	-	8	21	-	-	-	-	-	-	11
RED-BREASTED	-	-	-	-	-	-	-	-	1	2	2	-	-	-	-	-	1	-	-	-
VULTURE, BLACK	3	-	-	4	-	6	-	-	-	2	-	-	-	13	-	-	-	5	-	-
TURKEY	17	3	32	99	26	77	2	46	11	43	11	26	28	146	52	30	72	42	5	45
OSPREY	-	-	-	-	2	8	-	1	1	3	-	-	-	3	-	1	1	-	-	1
EAGLE, BALD	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-
HARRIER, NORTHERN	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	2	-	-	-	-
HAWK, SHARP-SHINNED	1	-	-	-	4	1	1	3	-	1	1	-	-	1	-	1	8	-	1	-
COOPER'S	-	1	-	1	-	-	1	-	4	1	-	-	-	1	2	-	3	-	1	3
GOSHAWK, NORTHERN	-	-	-	-	-	-	-	-	-	-	1	1	1	1	-	-	-	-	-	-
HAWK, RED-SHOULDERED	-	2	-	1	2	-	-	1	3	-	1	5	-	2	-	3	2	-	-	1
BROAD-WINGED	1	-	1	1	4	-	-	5	4	4	1	3	-	3	-	9	7	2	-	1
RED-TAILED	2	2	8	26	3	33	2	5	8	11	5	5	9	26	20	6	30	2	7	6
BUTEO SP.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KESTREL, AMERICAN	3	-	4	4	3	6	2	3	4	6	1	-	-	31	5	7	13	6	2	1
MERLIN	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
FALCON, PEREGRINE	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
PHEASANT, RING-NECKED	-	-	5	2	12	1	1	1	1	7	39	1	-	26	8	2	22	4	-	4
GROUSE, RUFFED	2	1	-	16	2	1	-	19	7	3	-	2	2	4	1	7	15	2	-	5
TURKEY, WILD	1	-	-	3	3	8	-	-	5	-	2	2	-	13	27	17	17	2	-	-
BOBWHITE, NORTHERN	-	-	-	-	-	-	-	-	-	1	-	-	-	6	-	-	5	-	-	-
RAIL, VIRGINIA	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1
SORA	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	2	-
MOORHEN, COMMON	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COOT, AMERICAN	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-

NORTH AMERICAN MIGRATION COUNT - MAY 14, 1994

	ADAMS	ALLEGHENY	BEDFORD	BERKS	BLAIR	BUCKS	BUTLER	CENTRE	CLARION	CUMBERLAND	DAUPHIN	ELK	FOREST	FRANKLIN	GREENE	HUNTINGDON	INDIANA	JUNIATA	LAWRENCE	LUZERNE
PLOVER, BLACK-BELLIED	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-
SEMIPALMATED	-	-	-	1	-	-	-	3	-	6	-	-	-	2	-	-	-	-	-	4
KILLDEER	2	4	17	14	12	18	6	21	19	46	8	29	9	74	10	25	83	13	41	29
YELLOWLEGS, GREATER	-	-	-	3	-	9	-	11	-	2	2	-	-	5	-	-	-	-	3	6
LESSER	-	-	-	2	-	1	-	6	-	1	-	1	-	6	-	-	-	-	-	21
SANDPIPER, SOLITARY	-	-	1	8	2	7	1	9	4	28	-	8	7	5	-	11	8	-	2	56
SPOTTED	1	-	-	21	13	27	2	19	5	26	4	7	4	24	-	10	18	4	1	26
UPLAND	5	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	2	-
SEMIPALMATED	-	-	-	1	-	2	-	-	-	-	-	-	-	12	-	-	1	-	-	-
LEAST	-	-	-	17	-	5	-	4	1	28	3	-	-	6	-	-	-	-	-	23
WHITE-RUMPED	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
PECTORAL	-	-	-	-	-	-	-	-	-	6	-	-	-	-	-	-	-	-	1	-
DUNLIN	-	-	-	2	-	-	-	12	-	1	-	-	-	-	-	-	-	-	-	-
DOWITCHER, SHORT-BILLED	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
SNIBE, COMMON	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-
WOODCOCK, AMERICAN	-	-	-	1	3	-	1	5	12	2	1	2	-	-	-	11	13	-	1	1
GULL, LAUGHING	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BONAPARTE'S	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-
RING-BILLED	-	-	-	29	-	163	-	126	-	78	-	-	-	51	-	16	34	-	-	-
HERRING	-	3	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GREAT BLACK-BACKED	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TERN, FORSTER'S	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
BLACK	-	-	-	-	-	-	-	-	-	1	4	-	1	2	-	-	3	-	-	-
DOVE, ROCK	-	2	21	57	57	29	100	83	-	125	36	8	7	356	69	18	53	32	56	105
MOURNING	5	16	39	117	29	91	9	63	51	91	46	85	64	253	88	28	293	37	66	136
CUCKOO, BLACK-BILLED	-	1	-	1	13	2	2	6	2	-	1	2	-	3	3	4	16	1	-	2
YELLOW-BILLED	1	1	1	1	5	1	-	2	-	1	4	-	-	6	4	6	7	4	-	-
OWL, BARN	-	-	-	-	-	2	-	-	-	-	-	-	-	4	-	-	-	-	-	-
EASTERN SCREECH	-	-	1	-	-	1	-	4	-	5	-	-	-	2	-	1	1	1	2	5
GREAT HORNED	-	-	2	-	-	8	1	3	-	6	2	2	-	5	-	4	-	-	-	-
BARRED	2	-	-	-	-	-	1	-	-	1	3	14	-	4	2	8	4	-	-	2
NORTHERN SAW-WHET	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
NIGHTHAWK, COMMON	-	3	1	1	-	6	-	-	-	1	-	-	-	15	-	3	-	-	3	4
WHIP-POOR-WILL	-	-	-	-	-	-	-	14	-	3	1	3	-	3	-	12	-	-	-	14
SWIFT, CHIMNEY	3	21	42	107	96	135	10	19	7	225	21	6	6	232	48	26	229	21	781	16
HUMMINGBIRD, RUBY-THROATED	4	2	35	4	10	17	3	10	6	21	4	6	17	26	17	17	67	6	7	2
KINGFISHER, BELTED	-	-	-	10	2	4	1	5	5	5	2	3	2	13	8	6	4	1	-	4
WOODPECKER, RED-HEADED	1	-	2	-	-	-	2	2	-	3	-	-	1	6	-	2	-	-	-	-
RED-BELLIED	-	4	11	25	21	60	3	13	2	35	8	1	6	74	8	17	27	22	4	9
SAPSUCKER, YELLOW-BELLIED	-	-	-	-	1	-	-	-	-	-	-	7	3	2	-	-	-	-	-	2
WOODPECKER, DOWNY	5	6	13	22	12	36	5	16	12	28	6	13	7	74	9	19	47	11	5	21
HAIRY	3	3	6	2	4	8	2	6	7	-	-	11	5	17	-	7	8	1	2	4
FLICKER, NORTHERN	3	6	7	21	21	41	3	16	8	35	9	8	8	63	13	21	67	19	3	19
WOODPECKER, PILEATED	2	2	6	5	10	2	1	12	3	7	1	2	2	29	5	10	15	6	3	8
FLYCATCHER, OLIVE-SIDED	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
WOOD-PEWEE, EASTERN	6	2	2	17	5	24	1	10	6	16	7	7	1	36	15	20	18	13	1	3
FLYCATCHER, YELLOW-BELLIED	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
ACADIAN	3	3	-	8	6	3	-	3	-	3	-	-	-	9	16	11	9	-	6	1
ALDER	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	8
WILLOW	1	-	-	3	3	2	1	5	2	2	-	-	-	-	-	3	9	-	4	-
LEAST	1	2	-	1	11	5	2	25	6	-	-	69	17	3	-	5	22	-	1	37
EMPIDONAX SP.	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHOEBE, EASTERN	4	1	16	28	15	38	3	45	21	29	5	11	7	71	17	32	88	24	7	21
FLYCATCHER, GREAT-CRESTED	7	4	5	19	17	30	2	41	14	38	5	4	6	74	4	44	6	25	-	8
KINGBIRD, EASTERN	4	-	6	20	2	59	8	16	10	14	4	3	7	69	6	17	20	4	6	9
LARK, HORNED	-	-	-	-	-	-	2	8	-	3	1	12	-	29	-	-	9	-	16	1
MARTIN, PURPLE	-	-	31	8	-	25	10	12	1	46	1	-	17	47	-	-	-	19	15	18

NORTH AMERICAN MIGRATION COUNT - MAY 14, 1994

	ADAMS	ALLEGHENY	BEDFORD	BERKS	BLAIR	BUCKSBUTLER	CENTRE	CLARION	CUMBERLAND	DAUPHIN	ELK	FOREST	FRANKLIN	GREENE	HUNTINGDON	INDIANA	JUNIATA	LAWRENCE	LUZERNE	
SWALLOW, TREE	3	-	20	72	21	115	19	60	86	88	44	257	75	86	19	37	156	48	44	131
NORTHERN ROUGH-WINGED BANK	2	4	3	11	5	118	4	25	10	16	4	5	6	41	23	41	115	4	19	57
CLIFF	50	-	-	3	-	31	-	-	-	-	300	-	-	35	-	-	2	-	15	65
BARN	-	-	6	81	41	189	10	3	-	-	3	5	14	-	22	-	6	-	-	51
JAY, BLUE	20	-	78	129	47	161	18	208	32	151	19	50	26	437	147	95	326	113	58	93
CROW, AMERICAN	19	11	22	115	16	179	7	93	72	111	25	43	45	208	25	54	244	53	27	106
FISH	11	16	61	139	52	199	4	204	80	99	65	45	60	268	123	121	370	122	52	105
CROW SP.	2	-	-	-	-	5	-	15	-	12	8	-	-	27	-	-	-	-	-	24
RAVEN, COMMON	-	-	-	-	-	-	-	-	-	-	-	-	-	7	-	-	-	-	-	21
CHICKADEE, BLACK-CAPPED CAROLINA	-	-	1	-	5	-	-	8	-	-	-	12	3	1	-	3	2	-	-	2
CHICKADEE, SP.	1	12	5	32	67	51	15	65	76	16	10	69	33	64	-	49	193	9	23	87
TITMOUSE, TUFTED	5	-	-	-	-	7	-	-	-	10	3	-	-	4	11	-	-	-	-	-
NUTHATCH, RED-BREASTED	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-
WHITE-BREASTED CREEPER, BROWN	9	9	13	47	46	100	5	57	31	56	22	3	16	156	31	36	133	58	8	53
WREN, CAROLINA	-	-	-	1	-	-	1	6	2	1	-	3	-	-	-	8	8	-	-	1
HOUSE WINTER	3	-	7	9	17	12	4	17	22	13	5	12	13	45	7	13	48	9	8	38
SEDGE MARSH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WREN, SP.	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
KINGLET, GOLDEN-CROWNED	-	-	-	-	-	-	-	1	-	-	-	2	-	-	-	-	2	-	-	-
RUBY-CROWNED GNATCATCHER, BLUE-GRAY	-	-	-	2	-	1	2	2	2	1	1	2	1	1	-	6	6	-	3	1
BLUEBIRD, EASTERN	3	4	-	22	32	50	3	19	13	27	8	3	6	49	22	36	52	13	29	14
VEERY	9	-	43	27	17	26	6	34	15	60	35	18	10	165	47	38	106	22	25	31
THRUSH, GRAY-CHEEKED	2	-	-	15	-	34	1	3	17	4	4	21	4	6	-	-	6	3	-	19
SWAINSON'S HERMIT	-	-	3	1	-	5	2	1	-	2	-	-	-	-	-	-	-	-	-	6
WOOD	-	-	1	-	-	-	1	10	6	1	-	46	16	3	-	2	2	-	-	5
ROBIN, AMERICAN	7	7	5	134	51	127	2	98	32	73	28	27	4	81	49	97	240	16	31	29
CATBIRD, GRAY	11	23	191	334	87	574	50	356	59	283	89	167	87	979	251	160	1,146	143	117	341
MOCKINGBIRD, NORTHERN	9	6	30	235	64	353	2	214	55	166	83	25	31	227	62	74	311	68	26	237
THRASHER, BROWN	7	-	-	28	1	51	-	4	-	36	8	-	-	81	6	7	1	7	-	5
PIPIT, AMERICAN	2	1	5	6	3	4	2	27	7	10	2	2	-	76	9	14	27	1	2	5
WAXWING, CEDAR	-	-	-	-	-	-	1	2	-	8	-	-	-	2	-	-	-	-	2	4
SHRIKE, LOGGERHEAD	-	-	-	13	12	32	10	15	-	25	15	16	5	6	15	14	10	5	-	17
STARLING, EUROPEAN	8	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-
VIREO, WHITE-EYED	20	13	119	283	93	318	50	284	19	525	163	45	21	766	259	104	559	233	76	336
SOLITARY	-	2	-	5	-	10	-	2	-	19	3	-	-	3	13	1	22	1	7	-
YELLOW-THROATED	2	-	-	4	2	1	1	21	8	6	-	29	10	2	-	12	21	-	2	4
WARBLING PHILADELPHIA	-	1	-	-	1	7	2	-	-	3	2	-	-	1	15	3	10	3	4	3
RED-EYED	-	-	-	11	6	18	1	3	1	10	-	1	-	7	2	8	4	2	7	-
VIREO SP.	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	2	-	2	-
WARBLER, BLUE-WINGED	15	-	4	114	58	110	6	159	10	46	23	67	10	116	36	103	246	51	30	67
BREWSTER'S	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-
LAWRENCE'S	2	46	-	13	-	30	3	-	47	3	6	-	12	3	21	8	20	1	12	10
GOLDEN-WINGED	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
TENNESSEE	-	-	1	-	2	-	2	3	-	3	-	-	-	-	-	-	5	-	-	3
ORANGE-CROWNED	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NASHVILLE	3	-	-	-	-	5	2	7	1	2	2	-	12	-	-	6	2	1	1	11
PARULA, NORTHERN	-	-	-	9	2	43	1	4	1	3	1	-	-	3	7	9	2	1	-	2
WARBLER, YELLOW	1	4	5	47	61	140	7	85	29	51	28	19	29	59	81	46	223	8	46	142
CHESTNUT-SIDED	-	10	1	9	2	9	3	56	80	3	1	61	27	7	-	15	27	-	4	20

NORTH AMERICAN MIGRATION COUNT - MAY 14, 1994

	ADAMS	ALLEGHENY	BEDFORD	BERKS	BLAIR	BUCKS	BUTLER	CENTRE	CLARION	CUMBERLAND	DAUPHIN	ELK	FOREST	FRANKLIN	GREENE	HUNTINGDON	INDIANA	JUNIATA	LAWRENCE	LUZERNE
MAGNOLIA	2	10	1	8	4	14	2	13	6	9	2	7	35	7	1	5	14	-	2	11
CAPE MAY	-	-	1	1	1	2	-	-	-	6	-	-	-	-	-	2	7	-	-	3
BLACK-THROATED BLUE	2	-	-	14	2	25	1	18	8	6	2	10	4	12	-	10	2	-	-	13
YELLOW-RUMPED	7	3	-	9	8	97	-	43	1	33	8	19	7	27	3	35	37	6	5	77
BLACK-THROATED GREEN	1	-	-	24	3	20	3	58	16	13	3	66	21	4	4	29	79	2	11	19
BLACKBURNIAN	-	4	-	-	1	5	3	18	9	7	-	9	23	2	-	9	19	-	3	14
YELLOW-THROATED	-	-	1	-	-	5	2	-	-	-	-	-	-	-	1	1	1	-	3	-
PINE	-	1	-	1	-	1	-	4	-	6	-	-	-	1	-	4	2	-	-	5
KIRTLAND'S	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
PRAIRIE	3	-	-	8	-	31	-	-	-	9	7	-	-	-	11	6	34	4	-	14
PALM	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	2	1	1	-	-
BAY-BREASTED	1	2	-	3	-	5	-	6	-	4	1	-	-	6	-	1	8	-	-	18
BLACKPOLL	1	-	-	2	-	7	1	-	-	3	-	-	1	1	-	-	1	-	-	10
CERULEAN	2	3	-	1	1	1	2	6	3	8	2	-	-	7	6	6	11	-	7	-
BLACK-AND-WHITE	7	1	-	35	4	35	1	36	1	7	3	25	-	16	3	15	16	2	6	27
REDSTART, AMERICAN	3	7	5	37	26	65	1	69	3	49	9	35	9	73	3	52	60	18	5	102
WARBLER, WORM-EATING	-	-	-	18	3	8	-	9	-	2	3	-	-	6	-	17	3	4	-	5
OVENBIRD	12	-	2	189	37	68	1	192	26	35	25	173	12	83	14	108	183	26	1	98
WATERTHRUSH, NORTHERN	-	-	2	2	-	11	-	3	-	6	-	-	-	4	-	2	1	-	-	12
LOUISIANA	4	-	-	12	7	9	4	10	-	2	3	-	-	3	-	9	9	1	1	3
WARBLER, KENTUCKY	-	5	-	3	1	4	-	2	-	10	-	-	-	2	17	2	12	-	-	-
CONNECTICUT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MOURNING	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
YELLOWTHROAT, COMMON	12	9	9	170	79	160	3	168	92	71	44	58	43	128	76	122	290	62	21	84
WARBLER, HOODED	6	7	-	13	-	3	2	10	8	4	1	-	-	8	5	8	65	2	5	3
WILSON'S	1	1	-	-	1	6	-	3	2	1	-	-	-	1	-	4	-	-	-	4
CANADA	2	-	-	9	2	10	-	18	3	3	2	2	4	1	-	8	1	-	-	6
CHAT, YELLOW-BREASTED	-	1	-	1	6	2	-	-	-	8	2	-	-	9	7	6	6	4	1	1
TANAGER, SUMMER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
SCARLET	11	10	5	45	27	74	4	64	27	25	23	30	3	75	19	81	132	39	6	48
CARDINAL, NORTHERN	4	18	37	136	51	135	10	96	22	70	59	19	30	251	75	54	247	63	33	78
GROSBEEK, ROSE-BREASTED	3	-	5	27	41	43	6	64	29	2	3	78	32	5	15	23	63	-	13	43
BLUE	2	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
BUNTING, INDIGO	2	14	8	48	26	31	3	31	13	76	45	35	8	106	78	58	141	45	9	32
TOWHEE, RUFOUS-SIDED	21	10	9	112	79	48	6	179	52	95	39	41	14	101	69	142	280	30	28	25
SPARROW, AMERICAN TREE	-	-	-	-	-	-	-	-	-	-	-	-	-	14	-	-	-	-	-	-
CHIPPING	7	11	15	49	58	45	15	171	42	85	18	121	52	212	44	134	341	81	55	76
FIELD	-	4	7	27	27	45	4	48	18	24	12	9	-	57	23	21	102	7	14	20
VESPER	-	-	-	-	-	-	-	4	-	2	1	-	-	7	-	-	5	1	-	1
SAVANNAH	1	-	-	-	-	3	3	1	5	4	5	8	1	3	2	1	11	-	9	4
GRASSHOPPER	-	-	-	-	-	-	-	3	-	3	-	-	-	22	-	4	24	-	4	-
HENSLOW'S	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	6	-	-	5	-
FOX	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	1	-	-	-
SONG	3	20	16	82	40	110	11	193	85	87	31	75	52	182	92	61	306	52	45	76
LINCOLN'S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
SWAMP	-	-	3	1	4	10	3	12	6	1	-	1	4	-	-	6	14	-	5	20
WHITE-THROATED	-	-	3	13	9	9	1	5	16	23	1	3	11	50	-	6	3	9	-	10
WHITE-CROWNED	2	-	12	2	2	-	10	25	11	7	-	29	28	21	2	31	38	2	3	4
JUNCO, DARK-EYED	-	-	1	-	-	-	-	11	10	-	-	65	28	-	3	5	8	-	-	12
BOBOLINK	3	-	-	1	-	23	17	-	8	30	3	31	25	36	2	-	24	-	58	8
BLACKBIRD, RED-WINGED	14	6	113	133	58	214	50	232	116	260	81	86	95	420	161	137	667	217	144	315
MEADOWLARK, EASTERN	5	-	7	1	7	4	8	6	18	15	9	8	4	53	21	10	48	5	23	4
BLACKBIRD, RUSTY	-	-	-	-	-	-	-	-	-	-	-	-	-	9	-	-	-	-	-	-
GRACKLE, COMMON	21	27	50	445	70	478	50	267	41	582	101	91	72	1,132	36	112	541	274	53	408
COWBIRD, BROWN-HEADED	11	8	46	80	31	118	10	105	34	105	36	36	37	149	37	24	170	40	-	139
BLACKBIRD SP.	-	-	-	11	-	-	-	-	-	8	-	4	-	8	-	-	-	-	-	-
ORIOLE, ORCHARD	-	1	-	12	3	15	-	-	-	4	-	-	-	10	7	4	5	3	1	-

NORTH AMERICAN MIGRATION COUNT - MAY 14, 1994

ADAMS ALLEGHENYBEDFORD BERKS BLAIR BUCKSBUTLERCENTRE CLARION CUMBERLAND DAUPHIN ELK FOREST FRANKLIN GREENE HUNTINGDON INDIANA JUNIATA LAWRENCE LUZERNE

NORTHERN FINCH, PURPLE HOUSE	4	7	19	108	26	172	7	63	12	79	40	17	18	155	40	58	142	48	15	35
SISKIN, PINE	-	1	9	-	2	-	2	2	9	-	-	31	15	24	-	-	21	-	4	22
GOLDFINCH, AMERICAN	17	8	41	142	15	192	9	122	25	212	47	16	35	385	28	37	338	63	41	87
GROSBEAK, EVENING	12	-	3	4	-	-	-	2	-	8	-	25	-	32	-	12	10	-	-	-
SPARROW, HOUSE	19	7	24	102	47	151	12	150	39	128	49	66	29	286	30	132	233	69	109	157
TOTAL SPECIES	-	-	-	-	-	-	-	11	3	-	-	27	-	9	-	36	1	-	-	2
TOTAL INDIVIDUALS	96	76	83	126	104	142	107	145	111	155	116	112	94	155	91	133	150	94	106	142
TOTAL INDIVIDUALS	587	537	1,481	5,380	2,204	7,356	753	5,885	2,156	5,906	2,277	2,960	1,798	11,512	2,884	3,603	11,398	2,731	2,714	5,414

	MIFFLIN	MONTGOMERY	NORTHAMPTON	PHILADELPHIA	SULLIVAN	TIOGA	VENANGO	WAYNE	WESTMORELAND	WYOMING	TOTAL	COUNTIES	AVERAGE	HIGH	HIGH COUNTY
LOON, COMMON	-	-	-	-	-	-	3	-	-	-	25	11	2	5	CUMBERLAND
GREBE, PIED-BILLED	-	-	-	-	-	-	-	-	-	-	7	3	2	3	CENTRE,LAWRENCE
HORNED RED-NECKED	-	-	-	-	-	-	-	-	-	-	8	2	4	6	FRANKLIN
CORMORANT, GREAT	-	-	-	1	-	-	-	-	-	-	2	2	1	1	PHILADELPHIA
DOUBLE-CRESTED	-	-	-	73	-	-	3	1	-	-	140	13	11	73	PHILADELPHIA
BITTERN, AMERICAN	1	-	-	-	-	-	-	-	-	-	6	5	1	2	BUCKS
LEAST HERON, GREAT-BLUE	-	-	-	1	-	-	-	-	-	-	1	1	1	1	PHILADELPHIA
EGRET, GREAT SNOWY	1	-	2	7	4	104	6	17	13	6	316	26	12	104	TIOGA
HERON, GREEN-BACKED	-	-	-	9	-	-	-	-	-	-	31	4	8	14	DAUPHIN
NIGHT HERON, BLACK-CROWNED	-	-	-	-	-	-	-	-	-	-	1	1	1	1	BUCKS
YELLOW-CROWNED SWAN, TUNDRA	-	-	2	11	-	6	-	7	6	2	118	20	6	14	CUMBERLAND
MUTE GOOSE, SNOW CANADA	-	-	-	55	-	-	-	-	-	-	101	4	25	55	PHILADELPHIA
DUCK, WOOD	-	-	-	-	-	-	-	-	-	-	1	1	1	1	CUMBERLAND
AMERICAN BLACK MALLARD	-	-	-	-	-	-	1	-	-	-	4	3	1	2	FRANKLIN
PINTAIL, NORTHERN	2	-	-	-	-	-	-	2	2	1	17	9	2	3	BUCKS
TEAL, BLUE-WINGED	-	-	-	-	-	-	-	-	-	-	1	1	1	1	ADAMS
GADWALL	28	7	37	379	13	17	44	207	111	42	2,971	30	99	379	PHILADELPHIA
WIGEON, AMERICAN	12	1	-	23	3	12	-	29	28	12	320	24	13	37	FRANKLIN
DUCK, RINGED-NECK	-	-	-	9	-	-	-	4	2	-	17	4	4	9	PHILADELPHIA
SCAUP, GREATER	44	1	11	223	8	22	9	38	89	15	1,658	30	55	223	PHILADELPHIA
LESSER SCOTER, SURF	-	-	-	-	-	-	-	-	-	-	1	1	1	1	INDIANA
GOLDENEYE, COMMON	-	-	-	8	-	-	-	-	1	-	12	5	2	8	PHILADELPHIA
BUFFLEHEAD	-	-	-	-	-	-	-	-	-	-	1	1	1	1	BUCKS
MERGANSE, HOODED	-	-	-	-	-	-	-	-	-	-	2	1	2	2	LAWRENCE
RED-BREASTED VULTURE, BLACK	-	-	-	-	-	-	1	-	-	-	2	2	1	1	VENANGO
TURKEY OSPREY	-	-	-	-	-	-	-	-	-	-	1	1	1	1	BERKS
EAGLE, BALD	-	-	-	-	-	-	-	-	-	-	2	1	2	2	CUMBERLAND
HARRIER, NORTHERN	-	-	-	-	-	-	-	-	-	-	1	1	1	1	CUMBERLAND
HAWK, SHARP-SHINNED	-	-	-	-	-	-	-	-	-	-	1	1	1	1	INDIANA
COOPER'S GOSHAWK, NORTHERN	-	-	-	-	-	-	-	-	-	-	1	1	1	1	INDIANA
RED-BREASTED VULTURE, BLACK	-	-	-	-	-	-	-	-	-	-	6	4	2	2	CUMBERLAND,DAUPHIN
TURKEY OSPREY	16	-	-	-	-	-	-	-	-	-	49	7	7	16	WAYNE
EAGLE, BALD	3	-	20	29	22	17	30	51	24	6	1,015	29	35	146	FRANKLIN
HARRIER, NORTHERN	-	-	-	-	-	-	-	-	-	-	31	14	2	8	BUCKS
HAWK, SHARP-SHINNED	-	-	-	-	-	-	-	-	-	-	4	1	4	4	DAUPHIN
COOPER'S GOSHAWK, NORTHERN	-	2	-	-	1	-	-	-	-	-	6	4	2	2	HUNTINGDON,MONTGOMERY
HARRIER, NORTHERN	-	-	-	1	2	-	1	2	3	1	33	17	2	8	INDIANA
HAWK, SHARP-SHINNED	-	1	1	-	-	-	-	2	3	-	25	14	2	4	CLARION
COOPER'S GOSHAWK, NORTHERN	-	-	-	-	-	-	-	-	-	-	3	3	1	1	ELK,FOREST,FRANKLIN

NORTH AMERICAN MIGRATION COUNT - MAY 14, 1994

	MIFFLIN	MONTGOMERY	NORTHAMPTON	PHILADELPHIA	SULLIVAN	TIOGA	VENANGO	WAYNE	WESTMORELAND	WYOMING	TOTAL	COUNTIES	AVERAGE	HIGH	HIGH COUNTY
HAWK, RED-SHOULDERED	-	-	1	-	-	-	-	-	6	-	30	13	2	6	WESTMORELAND
BROAD-WINGED	-	-	-	2	-	-	2	2	4	4	60	19	3	9	HUNTINGDON
RED-TAILED	2	2	31	15	3	5	4	8	21	1	308	30	10	33	BUCKS
BUTEO SP.	-	2	-	-	-	-	-	-	2	-	4	2	2	2	-
KESTREL, AMERICAN	1	1	2	15	2	2	2	9	5	1	141	27	5	31	FRANKLIN
MERLIN	-	-	-	-	-	-	-	-	-	-	1	1	1	1	CLARION
FALCON, PEREGRINE	-	-	-	2	-	-	-	-	-	-	3	2	2	2	PHILADELPHIA
PHEASANT, RING-NECKED	1	1	2	59	-	-	-	1	9	-	208	21	10	59	PHILADELPHIA
GROUSE, RUFFED	-	-	-	-	12	2	4	2	4	-	113	21	5	19	CENTRE
TURKEY, WILD	4	4	7	-	7	1	3	19	13	1	159	21	8	27	GREENE
BOBWHITE, NORTHERN	-	-	-	7	-	-	-	-	-	-	19	4	5	7	PHILADELPHIA
RAIL, VIRGINIA	-	-	-	-	-	1	-	-	1	-	10	5	2	5	BUCKS
SORA	-	-	-	-	-	1	-	-	3	-	9	4	2	3	CENTRE, WESTMORELAND
MOORHEN, COMMON	-	-	-	28	-	-	-	-	1	-	29	2	15	28	PHILADELPHIA
COOT, AMERICAN	-	-	-	12	-	-	-	-	-	-	15	3	5	12	PHILADELPHIA
PLOVER, BLACK-BELLIED	-	-	-	-	-	-	-	-	-	-	2	1	2	2	CENTRE
SEMIPALMATED	-	-	-	10	-	-	-	-	-	-	26	6	4	10	PHILADELPHIA
KILLDEER	5	-	3	30	1	4	4	23	56	5	611	29	21	83	INDIANA
YELLOWLEGS, GREATER	-	-	-	24	-	-	-	-	1	-	66	10	7	24	PHILADELPHIA
LESSER	-	-	-	9	-	-	-	1	-	-	48	9	5	21	LUZERNE
SANDPIPER, SOLITARY	-	-	-	15	4	9	1	9	10	1	206	22	9	56	LUZERNE
SPOTTED	-	-	-	35	-	3	2	3	6	8	269	23	12	35	PHILADELPHIA
UPLAND	-	-	-	-	-	-	-	-	-	-	9	3	3	5	ADAMS
SEMIPALMATED	-	-	-	75	-	-	-	-	-	-	91	5	18	75	PHILADELPHIA
LEAST	1	-	-	76	-	-	-	5	-	-	169	11	15	76	PHILADELPHIA
WHITE-RUMPED	-	-	-	-	-	-	-	-	-	-	1	1	1	1	LUZERNE
PECTORAL	-	-	-	-	-	-	-	-	-	-	7	2	4	6	CUMBERLAND
DUNLIN	-	-	-	9	-	-	-	-	-	-	24	4	6	12	CENTRE
DOWITCHER, SHORT-BILLED	-	-	-	-	-	-	-	-	-	-	1	1	1	1	CENTRE
SNIBE, COMMON	-	-	-	-	-	-	-	-	-	-	2	1	2	2	FRANKLIN
WOODCOCK, AMERICAN	-	-	-	1	-	-	-	1	-	1	56	15	4	13	INDIANA
GULL, LAUGHING	-	-	-	26	-	-	-	-	-	-	26	1	26	26	PHILADELPHIA
BONAPARTE'S	-	-	-	-	-	-	-	-	-	-	4	1	4	4	CENTRE
RING-BILLED	-	-	-	92	-	3	3	119	2	-	716	12	60	163	BUCKS
HERRING	-	-	-	18	-	-	-	-	-	-	23	4	6	18	PHILADELPHIA
GREAT BLACK-BACKED	-	-	-	12	-	-	-	-	-	-	13	2	7	12	PHILADELPHIA
TERN, FORSTER'S	-	-	-	2	-	-	-	-	-	-	4	3	1	2	PHILADELPHIA
BLACK	-	-	-	-	-	-	-	-	-	-	11	5	2	4	DAUPHIN
DOVE, ROCK	69	-	82	228	-	3	4	5	139	30	1,774	26	68	356	FRANKLIN
MOURNING	40	16	59	221	68	32	15	118	199	31	2,406	30	80	293	INDIANA
CUCKOO, BLACK-BILLED	-	-	4	1	-	-	-	-	9	-	73	18	4	16	INDIANA
YELLOW-BILLED	-	-	-	-	-	-	-	-	4	-	48	15	3	7	INDIANA
OWL, BARN	-	-	-	-	-	-	-	-	-	-	6	2	3	4	FRANKLIN
EASTERN SCREECH	-	-	-	11	-	-	-	-	6	1	41	13	3	11	PHILADELPHIA
GREAT HORNED	-	2	-	7	-	-	-	-	1	2	45	13	3	8	BUCKS
BARRED	-	-	-	-	1	-	-	-	1	1	44	13	3	14	ELK
NORTHERN SAW-WHET	-	-	-	-	-	-	-	-	-	-	1	1	1	1	ELK
NIGHTHAWK, COMMON	-	1	-	1	-	-	1	-	1	-	41	13	3	15	FRANKLIN
WHIP-POOR-WILL	-	-	-	-	-	-	-	-	-	-	50	7	7	14	LUZERNE
SWIFT, CHIMNEY	9	13	6	115	4	8	25	35	208	20	2,494	30	83	781	LAWRENCE
HUMMINGBIRD, RUBY-THROATED	22	2	2	2	19	1	4	16	58	1	408	30	14	67	INDIANA
KINGFISHER, BELTED	1	-	-	2	2	4	3	11	6	2	106	24	4	13	FRANKLIN
WOODPECKER, RED-HEADED	1	-	1	-	-	-	-	-	1	-	22	11	2	6	FRANKLIN
RED-BELLIED	6	3	23	39	2	2	1	2	32	1	461	29	16	74	FRANKLIN
SAPSUCKER, YELLOW-BELLIED	-	-	-	-	30	-	-	7	-	3	55	8	7	30	SULLIVAN
WOODPECKER, DOWNY	22	3	23	33	14	7	4	14	31	4	522	30	17	74	FRANKLIN
HAIRY	5	-	7	5	6	2	2	15	12	2	152	26	6	17	FRANKLIN

NORTH AMERICAN MIGRATION COUNT - MAY 14, 1994

	MIFFLIN	MONTGOMERY	NORTHAMPTON	PHILADELPHIA	SULLIVAN	TIOGA	VENANGO	WAYNE	WESTMORELAND	WYOMING	TOTAL	COUNTIES	AVERAGE	HIGH	HIGH COUNTY
FLICKER, NORTHERN	1	3	28	86	5	4	4	10	25	6	563	30	19	86	PHILADELPHIA
WOODPECKER, PILEATED	6	-	1	3	1	4	2	4	18	1	171	29	6	29	FRANKLIN
FLYCATCHER, OLIVE-SIDED	-	-	-	-	-	-	-	-	-	-	2	2	1	1	ADAMS,CUMBERLAND
WOOD-PEWEE, EASTERN	4	2	15	22	-	1	2	6	12	4	278	29	10	36	FRANKLIN
FLYCATCHER, YELLOW-BELLIED	-	-	-	-	-	-	-	-	1	-	2	2	1	1	HUNTINGDON,WESTMORELAND
ACADIAN	-	-	-	10	-	-	-	1	32	1	125	17	7	32	WESTMORELAND
ALDER	-	-	-	-	-	-	-	2	-	-	11	3	4	8	LUZERNE
WILLOW	-	-	-	14	-	-	-	4	9	-	60	13	5	14	PHILADELPHIA
LEAST	-	-	1	-	3	-	3	29	12	11	266	21	13	69	ELK
EMPIDONAX SP.	-	2	-	-	1	-	-	-	1	-	5	4	1	2	-
PHOEBE, EASTERN	8	2	10	19	33	17	19	54	28	10	683	30	23	88	INDIANA
FLYCATCHER, GREAT-CRESTED	7	1	15	18	-	7	1	6	11	4	423	28	15	74	FRANKLIN
KINGBIRD, EASTERN	2	6	11	59	1	6	3	39	11	5	427	29	15	69	FRANKLIN
LARK, HORNED	-	-	-	-	-	-	-	-	-	3	84	10	8	29	FRANKLIN
MARTIN, PURPLE	9	-	5	2	-	-	-	-	-	10	276	17	16	47	FRANKLIN
SWALLOW, TREE	17	9	26	611	81	37	20	398	40	150	2,770	29	96	611	PHILADELPHIA
NORTHERN ROUGH-WINGED	-	-	-	115	-	7	16	11	19	3	684	26	26	118	BUCKS
BANK	-	-	-	67	-	12	-	51	-	30	661	12	55	300	DAUPHIN
CLIFF	-	-	-	-	-	11	-	64	10	20	536	16	34	189	BUCKS
BARN	31	10	45	116	127	58	12	391	127	60	3,185	29	110	437	FRANKLIN
JAY, BLUE	53	9	60	97	63	28	25	114	126	39	2,089	30	70	244	INDIANA
CROW, AMERICAN	60	13	61	257	75	69	30	223	197	80	3,261	30	109	370	INDIANA
FISH	-	-	4	14	-	-	-	1	-	2	114	11	10	27	FRANKLIN
CROW SP.	-	-	-	-	-	-	-	-	-	-	28	2	14	21	-
RAVEN, COMMON	1	-	-	-	4	2	-	-	-	-	44	12	4	12	ELK
CHICKADEE, BLACK-CAPPED	15	-	25	-	55	16	22	79	70	15	1,174	27	43	193	INDIANA
CAROLINA	-	9	-	87	-	-	-	-	10	-	146	9	16	87	PHILADELPHIA
CHICKADEE, SP.	-	-	-	-	-	-	-	-	2	-	6	2	3	4	-
TITMOUSE, TUFTED	15	10	39	77	20	3	6	30	71	17	1,177	30	39	156	FRANKLIN
NUTHATCH, RED-BREASTED	-	-	-	-	5	-	1	-	4	-	41	12	3	8	HUNTINGDON,INDIANA
WHITE-BREASTED	11	1	7	10	18	4	2	13	29	7	404	29	14	48	INDIANA
CREEPER, BROWN	-	-	2	-	3	-	-	4	-	2	48	14	3	10	HUNTINGDON
WREN, CAROLINA	6	1	5	21	-	-	-	-	7	2	118	23	5	21	PHILADELPHIA
HOUSE	22	5	29	172	16	6	8	51	63	13	1,082	30	36	172	PHILADELPHIA
WINTER	-	-	-	-	-	-	1	3	-	-	13	7	2	3	HUNTINGDON,WAYNE
SEDGE	-	-	-	-	-	-	-	-	1	-	1	1	1	1	WESTMORELAND
MARSH	-	-	-	16	-	-	-	-	-	-	18	2	9	16	PHILADELPHIA
WREN, SP.	-	-	-	-	-	-	-	-	-	-	1	1	1	1	-
KINGLET, GOLDEN-CROWNED	-	-	-	-	-	-	-	-	-	-	5	3	2	2	ELK,INDIANA
RUBY-CROWNED	-	-	-	-	4	-	2	2	1	-	40	18	2	6	HUNTINGDON,INDIANA
GNATCATCHER, BLUE-GRAY	-	2	9	28	4	1	18	2	107	12	588	28	21	107	WESTMORELAND
BLUEBIRD, EASTERN	15	2	8	4	24	8	2	39	67	8	911	29	31	165	FRANKLIN
VEERY	-	1	12	48	4	2	16	25	6	7	260	23	11	48	PHILADELPHIA
THRUSH, GRAY-CHEEKED	-	-	1	2	-	-	-	-	-	-	3	2	2	2	PHILADELPHIA
SWAINSON'S	-	-	2	30	-	-	-	-	6	-	58	10	6	30	PHILADELPHIA
HERMIT	-	-	2	-	32	-	6	3	-	3	139	16	9	46	ELK
WOOD	4	5	92	142	25	2	20	10	120	9	1,567	30	52	240	INDIANA
ROBIN, AMERICAN	127	23	164	615	183	92	48	374	548	141	7,763	30	259	1,146	INDIANA
CATBIRD, GRAY	26	14	132	428	32	21	40	141	153	41	3,306	30	110	428	PHILADELPHIA
MOCKINGBIRD, NORTHERN	4	9	14	9	-	-	-	1	10	1	290	20	15	81	FRANKLIN
THRASHER, BROWN	2	-	4	22	6	5	1	5	10	3	263	28	9	76	FRANKLIN
PIPIT, AMERICAN	-	-	-	-	-	-	-	-	-	-	19	6	3	8	CUMBERLAND
WAXWING, CEDAR	-	-	-	13	-	-	-	4	4	3	234	19	12	32	BUCKS
SHRIKE, LOGGERHEAD	-	-	-	-	-	-	-	-	-	-	11	2	6	8	ADAMS
STARLING, EUROPEAN	107	33	33	1,017	32	20	86	134	504	60	6,312	30	210	1,017	PHILADELPHIA
VIREO, WHITE-EYED	-	-	-	43	-	-	1	-	28	-	160	15	11	43	PHILADELPHIA
SOLITARY	-	-	-	-	6	1	13	8	6	6	165	21	8	29	ELK

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	MIFFLIN	MONTGOMERY	NORTHAMPTON	PHILADELPHIA	SULLIVAN	TIOGA	VENANGO	WAYNE	WESTMORELAND	WYOMING	TOTAL	COUNTIES	AVERAGE	HIGH	HIGH COUNTY
YELLOW-THROATED	-	-	3	4	-	1	5	3	13	8	92	20	5	15	GREENE
WARBLING	-	1	14	33	1	1	3	-	26	5	165	22	8	33	PHILADELPHIA
PHILADELPHIA	-	-	-	-	-	-	-	2	1	-	9	6	2	2	INDIANA,LAWRENCE,WAYNE
RED-EYED	20	1	34	137	74	3	20	32	220	46	1,858	29	64	246	INDIANA
VIREO SP.	-	-	1	-	-	-	-	-	1	-	3	3	1	1	-
WARBLER, BLUE-WINGED	-	-	10	19	-	-	26	1	44	1	338	22	15	47	CLARION
BREWSTER'S	-	-	-	-	-	-	-	-	-	-	4	4	1	1	-
LAWRENCE'S	-	-	-	-	-	-	-	-	-	-	1	1	1	1	-
GOLDEN-WINGED	-	-	-	-	-	-	3	-	6	-	75	14	5	21	CENTRE
TENNESSEE	-	-	4	1	-	-	-	-	3	-	27	10	3	5	INDIANA
ORANGE-CROWNED	-	-	-	-	-	-	-	-	1	-	1	1	1	1	WESTMORELAND
NASHVILLE	-	-	-	1	4	-	2	-	1	1	64	18	4	12	FOREST
PARULA, NORTHERN	-	-	6	61	-	-	-	1	13	-	169	18	9	61	PHILADELPHIA
WARBLER, YELLOW	3	3	23	304	14	48	36	142	148	50	1,882	30	63	304	PHILADELPHIA
CHESTNUT-SIDED	-	1	25	16	49	4	38	32	15	7	522	26	20	80	CLARION
MAGNOLIA	-	-	7	30	6	-	27	8	27	1	259	26	10	35	FOREST
CAPE MAY	2	-	3	15	-	-	-	3	5	1	52	14	4	15	PHILADELPHIA
BLACK-THROATED BLUE	-	-	9	79	6	-	23	6	15	5	272	22	12	79	PHILADELPHIA
YELLOW-RUMPED	1	-	18	95	27	-	2	22	15	10	615	26	24	97	BUCKS
BLACK-THROATED GREEN	-	1	7	26	27	1	17	17	15	10	497	27	18	79	INDIANA
BLACKBURNIAN	-	-	3	12	5	-	16	12	16	8	198	21	9	23	FOREST
YELLOW-THROATED	-	-	-	1	-	-	1	-	13	-	29	10	3	13	WESTMORELAND
PINE	-	-	-	-	-	-	-	-	-	1	26	10	3	6	CUMBERLAND
KIRTLAND'S	-	-	-	-	-	-	-	-	-	-	1	1	1	1	FRANKLIN
PRAIRIE	-	-	-	1	-	-	-	-	23	2	153	13	12	34	INDIANA
PALM	-	-	-	-	-	-	-	-	4	-	9	5	2	4	WESTMORELAND
BAY-BREASTED	-	-	3	8	5	-	2	4	6	-	83	17	5	18	LUZERNE
BLACKPOLL	-	1	1	50	-	-	-	-	-	-	79	12	7	50	PHILADELPHIA
CERULEAN	-	-	1	1	-	-	5	-	54	-	127	19	7	54	WESTMORELAND
BLACK-AND-WHITE	-	1	13	64	5	1	23	27	25	8	407	27	15	64	PHILADELPHIA
REDSTART, AMERICAN	1	10	41	143	12	3	29	112	136	60	1,178	30	39	143	PHILADELPHIA
WARBLER, WORM-EATING	-	-	5	-	-	-	-	-	2	1	86	14	6	18	BERKS
OVENBIRD	1	-	81	44	56	3	13	54	97	40	1,674	28	60	192	CENTRE
WATERTHRUSH, NORTHERN	-	-	1	14	4	-	1	1	2	2	68	16	4	14	PHILADELPHIA
LOUISIANA	-	-	3	12	-	-	8	1	18	3	122	20	6	18	WESTMORELAND
WARBLER, KENTUCKY	-	-	3	8	-	-	3	1	36	-	109	15	7	36	WESTMORELAND
CONNECTICUT	-	-	-	-	-	-	-	2	-	-	2	1	2	2	WAYNE
MOURNING	-	-	-	-	-	-	-	-	1	-	2	2	1	1	LUZERNE,WESTMORELAND
YELLOWTHROAT, COMMON	5	-	44	263	57	25	33	90	198	36	2,452	29	85	290	INDIANA
WARBLER, HOODED	-	-	5	2	1	-	21	1	70	-	250	22	11	70	WESTMORELAND
WILSON'S	-	-	-	5	-	1	1	1	1	-	33	15	2	6	BUCKS
CANADA	-	-	1	34	3	1	15	4	5	3	137	22	6	34	PHILADELPHIA
CHAT, YELLOW-BREASTED	-	-	-	1	-	-	-	-	20	-	75	15	5	20	WESTMORELAND
TANAGER, SUMMER	-	-	-	-	-	-	-	-	-	-	1	1	1	1	GREENE
SCARLET	9	2	26	59	22	1	20	34	80	12	1,013	30	34	132	INDIANA
CARDINAL, NORTHERN	36	4	45	146	16	14	18	22	172	18	1,979	30	66	251	FRANKLIN
GROSBEAK, ROSE-BREASTED	-	-	34	22	31	6	38	25	56	11	718	26	28	78	ELK
BLUE	-	-	-	-	-	-	-	-	-	-	4	3	1	2	ADAMS
BUNTING, INDIGO	17	-	10	14	20	5	9	11	66	12	973	29	34	141	INDIANA
TOWHEE, RUFOUS-SIDED	1	1	21	95	24	2	33	36	113	8	1,714	30	57	280	INDIANA
SPARROW, AMERICAN TREE	6	-	-	-	-	-	-	-	4	-	24	3	8	14	FRANKLIN
CHIPPING	23	-	33	13	110	25	23	190	193	53	2,295	29	79	341	INDIANA
FIELD	7	-	15	10	4	2	-	6	58	7	578	26	22	102	INDIANA
VESPER	-	-	-	-	-	-	-	2	2	-	25	9	3	7	FRANKLIN
SAVANNAH	-	-	-	-	2	-	1	-	25	8	97	19	5	25	WESTMORELAND
GRASSHOPPER	1	-	-	-	-	-	-	-	36	-	97	8	12	36	WESTMORELAND
HENSLOW'S	-	-	-	-	-	-	-	-	2	1	16	6	3	6	INDIANA

NORTH AMERICAN MIGRATION COUNT - MAY 14, 1994

	MIFFLIN	MONTGOMERY	NORTHAMPTON	PHILADELPHIA	SULLIVAN	TIOGA	VENANGO	WAYNE	WESTMORELAND	WYOMING	TOTAL	COUNTIES	AVERAGE	HIGH	HIGH COUNTY
FOX	-	-	-	-	-	-	-	-	-	-	6	2	3	5	FRANKLIN
SONG	25	7	31	243	33	18	21	143	176	102	2,418	30	81	306	INDIANA
LINCOLN'S SWAMP	-	-	-	-	-	-	-	-	5	-	7	2	4	5	WESTMORELAND
WHITE-THROATED	7	8	2	16	18	3	4	9	6	1	246	26	9	50	FRANKLIN
WHITE-CROWNED	4	-	-	1	13	8	1	12	16	2	286	25	11	38	INDIANA
JUNCO, DARK-EYED	-	-	-	-	39	2	9	13	4	6	216	15	14	65	ELK
BOBOLINK	1	22	5	8	28	14	4	92	55	25	523	24	22	92	WAYNE
BLACKBIRD, RED-WINGED	31	14	31	457	96	96	75	482	367	202	5,370	30	179	667	INDIANA
MEADOWLARK, EASTERN	2	-	2	-	-	1	5	8	62	8	344	26	13	62	WESTMORELAND
BLACKBIRD, RUSTY	1	-	-	-	-	-	-	-	-	-	10	2	5	9	FRANKLIN
GRACKLE, COMMON	85	18	58	222	26	44	51	61	370	126	5,912	30	197	1,132	FRANKLIN
COWBIRD, BROWN-HEADED	30	3	333	156	55	15	12	124	234	10	2,188	29	75	333	NORTHAMPTON
BLACKBIRD SP.	-	-	-	-	-	-	-	-	-	-	31	4	8	11	-
ORIOLE, ORCHARD	-	-	-	4	-	-	-	-	6	-	75	13	6	15	BUCKS
NORTHERN	7	19	34	130	17	9	27	75	122	36	1,541	30	51	172	BUCKS
FINCH, PURPLE	14	-	-	-	30	-	7	51	8	3	255	18	14	51	WAYNE
HOUSE	106	1	59	469	40	36	16	111	127	23	2,848	30	95	469	PHILADELPHIA
SISKIN, PINE	-	-	-	-	2	-	-	7	12	-	129	12	11	32	FRANKLIN
GOLDFINCH, AMERICAN	25	14	28	201	47	25	26	96	176	80	2,557	30	85	286	FRANKLIN
GROSBEAK, EVENING	-	-	-	-	3	2	-	-	-	-	94	9	10	36	HUNTINGDON
SPARROW, HOUSE	74	1	24	242	8	3	43	94	-	25	2,488	28	89	677	FRANKLIN
TOTAL SPECIES	76	59	98	136	92	86	107	120	145	113	226	-	-	-	-
TOTAL INDIVIDUALS	1,394	367	2,350	10,398	2,135	1,161	1,434	5,420	7,502	2,097	113,794	-	3,793	11,512	FRANKLIN