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LONGEVITY RECORDS OF NORTH AMERICAN BIRDS

BY JOHN H. KENNARD

In 1968, I was amazed to trap a Black-capped Chickadee (*Parus atricapillus*) I had banded more than 12 years previously. I tried to find in the literature longevity records for wild North American birds, and found this to be exceedingly difficult.

Geoffrey Gill published a list in *EBBA News* (8(10):2, 1945), and this was followed by a "final list" in 1946 (9(3):3-4). In 1963 *EBBA News* (26:224-225) F. P. Frazier summarized 36 species previously published in *The Ring*, and Charles H. Blake estimated the extreme age of birds by families (26:223-224). Dr. Rydzewski, editor of *The Ring*, published a list of longevity records of birds of the world (*Ring*, 33:147-152, 1962), followed in 1963 (34:177-181) by a list of North American records. Recently in 1973, but not distributed until mid-1974, Dr. Rydzewski published in *The Ring* (77:91-96) his latest list on longevity of North American birds. These have been included with additional data when it could be obtained.

Bird-Banding, *EBBA News*, *Inland Bird-Banding News*, *Western Bird Bander*, *Auk*, and *Wilson Bulletin*, which occasionally publish such records, were searched for the last 20 years. Countless other publications occasionally carry reports of records, so some must have been missed.

In the spring of 1972 I published requests for additional data in *Bird-Banding* and *EBBA News*, and later in *Inland Bird-Banding News*, *Western Bird Bander*, and *Ontario Bird Banding Newsletter*. We made a preliminary report at the November 1972 meeting of NEBA, and asked for further data.

In February, 1973 Harvey Farber, co-editor, published in *EBBA News* (36:26) "Who Sez I am not Old Enough," an article listing 100 species. He used the same 1945 and 1946 EBBA lists, adding data from members of EBBA, the most important of which were the records of Powdermill Nature Reserve, furnished by Dr. Mary Clench, and requested that anyone who could beat these records send data to him. Following correspondence, because of my prior request for the similar data in the same publication, Mr. Farber graciously offered full cooperation, and forwarded to me all data received as a result of his article.

The late E. Alexander Bergstrom responded with enthusiasm, and sent me an extensive unpublished file on the subject that he had been working on since the early 1950's, and many others contributed additional records.

The staff of the Bird Banding Laboratory has been most cooperative and helpful. They furnished valuable data on shore birds to Mr. LeRoy Wilcox, who forwarded a summary to me, and they furnished me with data on raptors and many other species. We had hoped that the computer could give us more complete data on game birds, but this had not yet been possible. My list is obviously inadequate in this area.

I hope to include more complete data on game birds, as well as the corrections and additions that I feel sure will be pointed out to me after publication of this list, in a later supplementary list.

The following table is a summary of my compiled data on longevity in wild North American birds. The species are listed in order according to the 1957 edition of the AOU *Check-list*.

I have included, wherever possible, the following data: band number, date, age, sex, who and where banded; date, how, who and where of last recovery; reference and estimated minimal age (EMA). I have used codes according to the Bird Banding Manual, and abbreviations as listed below:

Dates are according to BBM code: Month, Day, Year; x = unknown.

Age: HY = Hatching Year, SY = Second Year, AHY = After Hatching Year, ASY = After Second Year, A4Y = After Fourth Year, etc.

Sex: M = Male, F = Female, U = Unknown

How Recovered:

00 = Found Dead	26 = Caught in fishing gear
01 = Shot	29 = Sight record-color band
01* = Killed by man	33 = Caught in nest
03 = Caught due to injury	45 = Dead on highway
04 = Caught in trap	52 = Band read by telescope
09 = Caught by hawk or owl	54 = Struck radio or TV tower
13 = Struck stationary object	89 = Trapped and released (different 10-min block)
14 = Struck motor vehicle	98 = Band No. only—no information
15 = Caught due to weather	99 = Trapped and released (same 10-min block)
16 = Collected as scientific specimen	99* = Trapped and released (place not specified)
20 = Caught due to disease	

References:

Auk	= <i>Auk</i>
BB	= <i>Bird-Banding</i>
BBL	= Bird Banding Laboratory
EBBA	= <i>EBBA News</i>
IBB	= <i>IBBA News</i>
WBB	= <i>Western Bird Bander</i>
PC	= Personal communication to
	AB = E. Alexander Bergstrom
	HF = Howard Farber
	JK = John H. Kennard
	LW = LeRoy Wilcox

EMA: I have arbitrarily chosen to give all birds a hatching date in June, except those banded as hatching year birds before that month. I realize that this is not entirely accurate, but feel it will give a more valid comparison than to consider a bird one year old

on 1 January. Thus a bird banded in one year, and recovered over 10 years later in February, would be considered to be 10 years and eight months old, whether banded as a nestling in June, or as a juvenile in December, and EMA recorded as 10-08.

Because even hummingbirds apparently have a life span of at least five years, I have not included records of birds less than four years old.

A complete list of acknowledgments is obviously not practical at this time because it would have to include all those whose records are marked "PC" for personal communication on the list, plus the many others whose records have been sent to me but did not qualify for the list.

Special thanks are due to the late E. Alexander Bergstrom, without whose help the project would never have got off the ground; to Fred Schaeffer and Harvey Farber of *EBBA News* for their cooperation, and their files on the subject; to the editors of the regional publications; to Dr. Mary Clench, of Carnegie Museum for the files from Powdermill and other helpful suggestions and criticisms; to the staff of Manomet Bird Observatory for their cooperation; to LeRoy Wilcox for his file on shorebirds; to Deborah Howard, Charles Blake, and other officers of NEBBA for their support; to Dr. W. Ryzewski, editor of *The Ring* for copies of his data; to George Jonkel and his staff at the Bird Banding Laboratory for their help, and especially to Chandler S. Robbins for editing, criticism, and help in preparing this paper; to our editor Dr. David W. Johnston; and lastly to my wife for her patience, help and encouragement.

The list itself is perhaps incomplete and will rapidly become obsolete. Therefore, anyone able to furnish corrections or additions should please send complete data to me.

Box 150 - Rt 5, Bedford, New Hampshire 03102. Received 8 December 1973, accepted 16 December 1974.

Great Egret <i>Casmerodius albus</i>	346-03502 04-25-70	06-29-47 (01)	HY-U Ottawa Co., Ohio	L. F. VanCamp, Ottawa, Co., Ohio PC-JK	22-10
Louisiana Heron <i>Hydranassa tricolor</i>	ABBA37537 01-xx-37	08-13-20 (98)	HY-U	Ring 77:92, 1973	10-07
Black-crowned Night Heron <i>Nycticorax nycticorax</i>	496-4087 07-09-73	06-06-52 (16)	HY-U R. D. Hoffman, Lucas Co., Ohio	PC-JK	21-01
Glossy Ibis <i>Plegadis falcinellus</i>	726-82628 06-31-71	07-10-66 (89)	HY-U E. Fried, Seneca Co., N.Y.	PC-HF-JK	5-00
Trumpeter Swan <i>Olor buccinator</i>	509-55087 07-xx-70	07-24-56 (99)	U-U	R. A. Ryder, Red Rock Lake, Mont. WBB 47:12, 1972	24-01
Canada Goose <i>Branta canadensis</i>	32FMark5:36 11-10-55	“Fall '32”	C. H. Douville, Highbanks, Mich.	Auk 74:510, 1957	23-05
Blue Goose <i>Chen caerulescens</i>	34-702516 12-17-42	12-02-34 (01*)	U-U		8-06
Snow Goose <i>Chen cerulescens</i>	597-27576 11-25-72	11-05-56 (01)	AHY-F Willows, Cal.	Tule Lake, Cal. Ring 77:92, 1973	17-05
Mallard <i>Anas platyrhynchos</i>	B668941 07-09-61	07-07-32 (00)	HY-U	W. Albert, Jr., Lansing, Iowa BBL	29-01
Black Duck <i>Anas rubripes</i>	38-637171 01-19-57	04-01-38 (03)	AHY-U Norfolk, Va.	J. H. Buckalew, Leipsic, Del. PC-HF	19-07
Gadwall <i>Anas strepera</i>	586-60640 11-20-68	08-16-57 (99)	U-U	Stillwater Wildl. Manage. Area, Nev. WBB 45:46, 1971	11-05
Pintail <i>Anas acuta</i>	41-605622 12-09-66	11-28-40 (01)	U-M No. Princeton, Cal.	G. C. Ehman, Oakland, Cal. BBL	26-06
American Green-winged Teal <i>Anas crecca carolinensis</i>	101495 02-02-30	03-04-22 (01*)	AHY-U	Ring 77:92, 1973	9-07
American Widgeon <i>Anas americana</i>	A558253 10-xx-41	04-04-33 (01*)	AHY-U	Ring 77:92, 1973	9-04
Shoveler <i>Anas cygneata</i>	46-00578 01-xx-69	10-08-52 (99)	U-U	Stillwater WMA, Nev. WBB 45:46, 1971	16-07

Ring-necked Duck <i>Aythya collaris</i>	C6000331 11-19-42	01-15-33 (01*)	AHY-U	Ring 77:92, 1973	10-05
Canvashack <i>Aythya valisineria</i>	637-63313 02-28-73	01-12-59 (11)	AHY-M Sinaloa, Mexico	WBB 49(3):15, 1974	14-08
Greater Scaup <i>Aythya marila</i>	12-27-70	01-18-62 (01)	AHY-U Willard, N. Y.	Migrant, 43:72, 1972	10-06
Lesser Scaup <i>Aythya affinis</i>	B630208 12-14-40	12-07-31 (89)	U-U	Ring 77:92, 1973	9-06
Common Eider <i>Somateria mollissima</i>	40-807898 08-22-50	06-26-40 (98)	U-U	Ring 77:92, 1973	12-02
Black Vulture <i>Coragyps atratus</i>	41-801846 12-xx-56	01-01-41 (04)	U-U Lutcher, La.	BBL	16-06
Goshawk <i>Accipiter gentilis</i>	38-713532 10-30-48	06-08-42 (01)Ms	HY-U W. Timlin, Smith Falls, Ont.	PC-JK	6-04
Sharp-shinned Hawk <i>Accipiter striatus</i>	553-03900 10-14-66	10-16-54 (00)	D. D. Berger, Cedar Gr., Wisc.	PC-JK	12-04
Cooper's Hawk <i>Accipiter cooperii</i>	49-641435 11-06-53	06-13-46 (01)	HY-U F. C. Laskey	BBL	7-05
Red-tailed Hawk <i>Buteo jamaicensis</i>			R. Carter		
Red-shouldered Hawk <i>Buteo lineatus</i>	34-541345 03-08-63	02-25-44 (99)	AHY-M?	EBBA 36:27, 1973	13-07
Broad-winged Hawk <i>Buteo platypterus</i>	A573145 12-20-43	07-15-36 (01)	U-U	BBL	19-08
Swainson's Hawk <i>Buteo swainsoni</i>	36-638810 01-10-52	07-26-42 (01)	HY-U Buena Aires, Argentina	BBL PC-JK	7-06
Rough-legged Hawk <i>Buteo lagopus</i>	36-7047695 03-01-42	01-15-36 (01)	U-U Great Bend, Kans.	BB 21:14, 1950	6-09
Ferruginous Hawk <i>Buteo regalis</i>	572-00402 08-06-72	(20)	HY-U Same	WBB 48:48, 1973	17-03

Golden Eagle <i>Aquila chrysaetos</i>	202902 10-10-37	U-U Guanajuato, Mexico	W. M. Pierce BBL	10-05
Marsh Hawk <i>Circus cyaneus</i>	A639503 12-06-44	U-U Scotland, Tex.	F. G. Bard, Imperial Beach, Sask. BB 21:15, 1950	16-05
Osprey <i>Pandion haliaetus</i>	27-19079 06-74-65	AHY-U W. K. Cook, Herring Cr. Del.	J. H. Buckalew, N. Cedar Br., Del. PC-JK	32-00
Peregrine Falcon <i>Falco peregrinus</i>	34-632357 11-05-44	U-U "N Bolivia"	R. L. Meredith, Assateague, Md. BB 21:15, 1950	5-05
Chachalaca <i>Ortalis vetula</i>	565-57741 04-08-72	AHY-M W. P. Marion, Same	R. J. Fleetwood, Santa Ana NWR, Tex. PC-JK	8-10
Ruffed Grouse <i>Bonasa umbellus</i>	A18 01-04-73	HY-U Vinton Co., Ohio	R. J. Stoll, Vinton Co., Ohio BB 45:270-1, 1974	7-07
Bobwhite <i>Colinus virginianus</i>	11-29-58	ASY-M	H. M. Marden, Boone Co., Mo. Auk 78:94, 1961	6-05
California Quail <i>Lophortyx californicus</i>	A444872 03-03-45	AHY-M U-U	E. L. Summer, Berkeley, Cal. BB 21:15, 1950	4-09
Gambel's Quail <i>Lophortyx gambelii</i>	36-412088 11-24-42	U-U	Ring 77:92, 1973	6-05
Turkey <i>Meleagris gallopavo</i>	12-xx-72	HY-U J. Rieffenberger	W. V. Dept. Nat. Res. PC-HF	12-06
Sandhill Crane <i>Grus canadensis</i>	558-30568 07-12-68	AHY-M Mayno Poligano, USSR	Bitter Lake NWR, N.M. WBB	6-01
Common Gallinule <i>Gallinula chloropus</i>	A511251 09-24-38	AHY-U	Ring 77:92, 1973	6-03
American Coot <i>Fulca americana</i>	B632407 12-29-40	AHY-U	Ring 77:92, 1973	9-06
American Oystercatcher <i>Haematopus palliatus</i>	575-25603 06-12-72	HY-U E. Quogue, N.Y.	L. Wilcox, E. Moriches, N.Y. PC-JK	10-0
Piping Plover <i>Charadrius melodus</i>	44-103528 06-06-63	AHY-U	L. Wilcox, E. Moriches, N.Y. PC-JK	14-00

Killdeer <i>Charadrius vociferus</i>	38-364988 12-00-45	05-05-40 (00)	AHY-F	P. D. Hurd, Costa Mesa, Cal.	BBL	6-06
American Woodcock <i>Philohela minor</i>	41-304358 12-07-48	02-04-41 (45)	AHY-U	R. T. Norris, Grosse Tete, La. Rocky Mount, N.C.	BBL	8-06
Common Snipe <i>Cepeta gallinago</i>	48-302403 10-16-53	08-31-48 (01)	AHY-U	K. E. Bartel, Calument L, Ill. M. Shabi, Whiting, Ind.	PC-JK	6-04
Upland Plover <i>Bartramia longicauda</i>	37-309981 08-29-46	05-22-42 (03)	AHY-U	G. Rogers, Jefferson Co., Wis. Macon, Mich.	BBL	5-02
Spotted Sandpiper <i>Actitis macularia</i>	39-150094 11-08-46	10-24-39 (99)	AHY-U	I. R. L. Rogers, Modesto, Cal.	BBL	8-05
Lesser Yellowlegs <i>Tringa flavipes</i>	05-01-65	08-24-60 (00)	AHY-U	R. P. French, Trinidad Plankinton, S.D.	PC-JK	5-11
Knot <i>Calidris canutus</i>	502-75260 08-22-61	07-09-55 (89)	HY-U	D. F. Parmalee, Ellesmere Is., NWT St Kilda Is. Scotland	BBL	6-02
White-rumped Sandpiper <i>Calidris fuscicollis</i>	72-158158 06-01-71	06-02-67 (14)	AHY-U	E. F. Martinex, Gt. Bend, Kans.	BBL	5-00
Least Sandpiper <i>Calidris minutilla</i>	29-16947 08-03-71	10-28-64 (89)	U-U	D. F. Parmalee, Gt. Bend, Kans.	BBL	7-02
Dunlin <i>Calidris alpina</i>	36-229093 04-02-41	10-14-36 (16)	U-U	O. L. Austin, Jr., N. Eastham, Mass. Hog Is., Va.	BBL	4-10
Semipalmated Sandpiper <i>Calidris pusillus</i>	525-42993 xx-xx-68	8-09-64 (99)	AHY-U	B. B. Knorr, S. Amboy, N.J.	PC-JK	7-02
American Avocet <i>Recurvirostra americana</i>	48-732xx4 07-xx-72	07-05-58 (00)	HY-U	J. W. Hopkins, Hussar, Alta. Purple Spring, Alta.	BBL	9-07
Glauco-winged Gull <i>Larus glaucescens</i>	637-60625 09-11-69	07-xx-49 (52)	Protection Is., Wash.	Z. M. Schultz, San Juan Is., Wash. WBB 48:4, 1973		22-01
Great Black-backed Gull <i>Larus marinus</i>	34-657357 06-01-51	07-17-59 (89)	HY-U	L. Wilcox, Gardner's Is., N.Y. Watch Hill, R.I.	PC-JK	10-03
Western Gull <i>Larus occidentalis</i>		07-10-35 (98)	U-U			16-00
						Ring 77:93, 1973

Herring Gull <i>Larus argentatus</i>	3607326 08-xx-62	07-12-31 (98)	HY-U	Ring 77:93, 1973	31-02
California Gull <i>Larus californicus</i>	A557244 08-16-44	06-30-33 (?)	AHY-U	Ring 77:93, 1973	12-02
Ring-billed Gull <i>Larus delawarensis</i>	A679718 06-12-51	12-10-30 (00)	HY-U Cedar River, Mich.	BBL	21-
Laughing Gull <i>Larus atricilla</i>	635-88507 12-20-70	07-16-66 (00)	HY-U W. I. Lyon, Naubinway, Mich.	PC-HF-JK	5-06
Franklin's Gull <i>Larus pipixcan</i>	A435450 06-20-37	06-11-32 (01)	HY-U S. Barnwell, Jacksonville, Fla.	Ring 77:93, 1973	5-0
Common Tern <i>Sterna hirundo</i>	xx-xx-52	xx-xx-29 (09)	ASY-U O. L. Austin	BB 27:61, 1956	25-
Arctic Tern <i>Sterna paradisaea</i>	35-325864 06-19-70	07-24-36 (99)	HY-U J. Hatch, Petit Manan, Me.	BB 45:269, 1974	34-
Roseate Tern <i>Sterna dougallii</i>	683-41774 06-16-69	07-16-60 (99)	HY-U L. Wilcox, Gull Is., N.Y.	PC-JK	9-00
Sooty Tern <i>Sterna fuscata</i>	40-350148 06-07-72	06-xx-40 (99)	HY-U W. B. Robertson, Bush Key, Fla.	PC-JK	32-01
Least Tern <i>Sterna albigrons</i>	518547 07-09-50	07-15-29 (98)	U-U Cotuit, Mass.	BB 23:72, 1952	21-01
"Cal." Least Tern <i>Sterna albigrons browni</i>	040166014 06-06-56	06-15-41 (20)	HY-U (B. W. Massey)	F. G. Crawford, Sunset Beach, Cal.	15-0
Caspian Tern <i>Hydroprogne caspia</i>	378622 08-09-51	06-19-25 (01)	HY-U Bass Is., Ohio	BB 23:72, 1952	26-02
Noddy Tern <i>Anous stolidus</i>	723-88466 01-08-72	07-05-64 (00)	AHY-U Same	BB 48:48, 1973	7-07
Black Skimmer <i>Rynchops nigra</i>	38-417182 06-20-60	07-10-48 (89)	HY-U Jones Beach, N.Y.	PC-HF+JK	12-0
Band-tailed Pigeon <i>Columba fuscata</i>	525-50832 06-30-70	09-23-65 (89)	AHY-M M. Snyder, Evergreen, Colo.	WBB 47:12, 1972	6-0

White-winged Dove	40-119114	07-31-40	U-U	G. B. Saunders, Mission, Tex.	5-03
<i>Zenaida asiatica</i>	09-16-45	(01)	Sebastien, Tex.	BB 21:16, 1950	
Mourning Dove	653-72938	09-16-62	HY-U	W. Pepper, Island Beach, N. J.	10-02
<i>Zenaida macroura</i>	08-xx-72	(00)	Lakehurst, N.J.	PC-HF	
Ground Dove	3933797	03-25-38	AHY-U	Ring 77:93, 1973	6-0
<i>Columbina passerina</i>	06-06-37	(99*)			
Inca Dove	39-208321	03-25-38	AHY-U	Ring 77:93, 1973	5-10
<i>Scardafella inca</i>	04-11-43	(99*)			
Barn Owl	10-28-46	04-24-35	U-U	F. N. Gallup, Escondido, Cal.	11-06
Great Horned Owl	200713	(20)	U-U	BB 20:150, 1959	
<i>Bubo virginianus</i>	11-23-39	04-17-27	U-U	EBBA Jan., 1949	12-08
Snowy Owl	11-xx-69	07-18-60	HY-U	D. F. Parmalee, Victoria Is. NWT, Can.	9-05
<i>Nyctea scandiaca</i>	A575106	(89)	Southampton Is., NWT	PC-LW & JK	
Burrowing Owl	02-17-40	06-07-32	AHY-U	Ring 77:93, 1973	8-08
<i>Speotyto cunicularia</i>		(98)			
Barred Owl	A708824	05-07-32	AHY-U	Ring 77:93, 1973	8-08
<i>Strix varia</i>	02-03-40	(98)			
Whip-poor-will	693-54008	05-15-62	AHY-M	M. H. Clench, Powdermill, Pa.	3-11
<i>Caprimulgus vociferus</i>	05-15-65	(99)		PC-JK	
Chimney Swift	24-167605	09-16-57	AHY-	Ring 77:93, 1973	14-00
<i>Chaetura pelagica</i>	06-25-70	(99*)			
Ruby-throated Hummingbird	x7278	08-23-64	AHY-U	Ring 77:94, 1973	5-02
<i>Archilochus colubris</i>	06-14-69	(99*)			
Yellow-shafted Flicker				M. Magee	
<i>Colaptes auratus</i> subsp.					
Red-shafted Flicker	543-82051	05-16-65	AHY-M	EBBA 36:27, 1973	12-05
<i>Colaptes auratus</i> subsp.	01-07-71	(99)		WBB 47:56, 1972	5-07
Pileated Woodpecker		07-06-38		H. Pegg, Glenevis, Alta.	9-11
<i>Dryocopus pileatus</i>	05-xx-48	(01)		BB 22:125, 1951	

Red-bellied Woodpecker <i>Centurus carolinus</i>	512-45224 02-22-67	09-30-46 (99)	U-M	C. H. Blake, Hillsboro, N.C.	PC-JK	20-08
Red-headed Woodpecker <i>Melanerpes erythrocephalus</i>	462748 05-21-35	06-23-26 (00)	U-U		Ring 77:94, 1973	8-11
Yellow-bellied Sapsucker <i>Sphyrapicus varius</i>	69-194 517 02-04-73	11-15-66 (99)	U-M	E. P. Teulings, Chapel Hill, N.C.	PC-HF & JK	6-08
Hairy Woodpecker <i>Dendrocopos villosus</i>	410-0745 04-26-74	05-20-61 (99)	U-U	R. McCullough, Stillwater, N.J.	PC-JK	12-10
Downy Woodpecker <i>Dendrocopos pubescens</i>	29-115183 11-50-71	12-20-61 (99)	U-F	J. C. Olyphant, St. Paul, Minn.	PC-JK	10-05
Eastern Kingbird <i>Tyrannus tyrannus</i>	05-24-42	07-10-36 (99)	AHY-U	H. Gray, Wilton, N.D.	BB 19:160, 1948	6-11
Western Kingbird <i>Tyrannus verticalis</i>	35-139818 05-20-41	05-26-35 (01*)	AHY-U		Ring 77:94, 1973	6-11
Great Crested Flycatcher <i>Myiarchus cinerascens</i>	29-115025 06-07-71	07-14-61 (99)	AHY-U	J. C. Olyphant, St. Paul, Minn.	PC-JK	11-
Eastern Phoebe <i>Sayornis phoebe</i>	469017 07-05-35	07-02-27 (98)	U-U		Ring 77:94, 1973	8-01
Traill's Flycatcher <i>Empidonax traillii</i>	113-63573 07-29-69	06-16-66 (99)	AHY-U	L. S. Ryan, Little Falls, Minn.	PC-HF	4-01
Eastern Wood Pewee <i>Contopus virens</i>	108-76053 05-23-70	07-11-64 (99)	AHY-U	Powdermill NR, Rector, Pa.	PC-JK	6-11
Tree Swallow <i>Iridoprocne bicolor</i>				L. B. Chapman, Princetown, Mass.	EBBA 9:4, 1946	9-0
Bank Swallow <i>Riparia riparia</i>				C. D. Stoner, Fish Creek, N.Y.	EBBA 9:4, 1946	6-11
Barn Swallow <i>Hirundo rustica</i>	63-15554 09-26-68	08-28-60 (89)	U-U	D. L. Bordner, State Col., Pa.	PC-JK	8-03
Cliff Swallow <i>Petrochelidon pyrrhonata</i>	41-97901 07-03-45	07-11-41 (99)	U-U	R. B. Fischer, Livingston Manor, N.Y.	PC-AB	4-01

Purple Martin <i>Progne subis</i>	B261331 03-xx-47	07-01-33	HY-U	L. E. Hunter, Dallas City, Ill.	BBL	4-1
Gray Jay	436659 08-11-36	09-23-27 (00)	U-U		Ring 77:96, 1973	9-02
<i>Perisoreus canadensis</i>	543-54804 12-16-71	07-24-57 (99)	HY-U	R. J. Middleton, Norristown, Pa.	BB 45:208, 1974	14-06
Blue Jay	34-359299 06-xx-44	06-29-38 (99)	U-U	M. E. Beatty, Yosemite, Cal.	BB 21:17, 1950	6-0
Steller's Jay						
<i>Cyanocitta stelleri</i>	07-07-70	05-14-60 (99)	AHY-F	G. E. Woolfenden, Tampa, Fla.	PC-JK	11-01
<i>Aphelocoma coerulescens</i>						
Mexican Jay	743-83922 12-10-69	12-01-65 (99)	U-U	L. Wilcox, Madera, Ariz.	PC-JK	4-06
<i>Aphelocoma ultramarina</i>						
Green Jay	703-31015 03-21-72	01-19-63 (99)	AHY-U W. R. Marion	R. J. Fleetwood, Santa Anna, NWR, Tex.	PC-JK	9-09
<i>Cyanocorax yncas</i>	B647232 03-05-38	06-12-32 (98)	HY-U		Ring 77:96, 1973	5-08
White-necked Raven						
<i>Corvus cryptoleucus</i>						
Common Crow				A. Holm		
<i>Corvus brachyrhynchos</i>					EBBA 36:28, 1973	14-01
Fish Crow	38-634512 08-23-45	04-30-38 (00)	U-U	E. A. Mellhenny, Avery Is., La.	BB 21:17, 1950	8-02
<i>Corvus ossifragus</i>				Little Rock, Ark.		
Clark's Nutcracker	503-86500 11-13-69	08-04-52 (99)	U-U	R. M. Brown, Crater Lake, Cal.	WBB 45:46, 1971	17-05
<i>Neotifraga columbiana</i>						
Black-capped Chickadee	25-62121 11-09-68	10-12-56 (99)	U-U	J. H. Kennard, Bedford, N.H.		12-05
<i>Parus atricapillus</i>	22-53814 05-26-67	04-14-57 (99)	AHY-U	W. H. Jenkins, Elmer, N.J.	PC-JK	10-11
Carolina Chickadee						
<i>Parus carolinensis</i>	C97908 03-03-38	12-28-30 (99*)	U-U			7-09
Mountain Chickadee					Ring 77:94—1973	
<i>Parus gambeli</i>	42-137944	01-27-39	AHY-U	R. Middleton, Norristown, Pa.	EBBA 32:225, 1969	12-
Tufted Titmouse			Same			
<i>Parus bicolor</i>	“Nestled 1950”					

White-breasted Nuthatch <i>Sitta carolinensis</i>	63-68470 03-31-71	01-28-62 (15)	U-U	A. Colister, Longmont, Colo.	WBB 46:54, 1971	9-09
Red-breasted Nuthatch <i>Sitta canadensis</i>	101-84069 12-13-68	01-11-62 (99)	AHY-M	R. Patterson, Mt. Desert, Me.	PC-HF & JK	7-06
Brown-headed Nuthatch <i>Sitta pusilla</i>	113-61608 11-12-71	06-15-67 (99)	HY-U	E. P. Teulings, Chapel Hill, N.C.	PC-HF & JK	4-05
Pygmy Nuthatch <i>Sitta pygmaea</i>	67-26804 02-29-69	09-02-62 (99)	U-U	A. C. Felt, Idyllwild, Cal.	WBB 45:46, 1971	7-03
Brown Creeper <i>Certhia familiaris</i>	104-23304 10-19-65	08-07-62 (99)	AHY-U	K. S. Anderson, Raynham, Mass.	PC-JK & EBBA 29:236, 1966	4-04
Wren tit <i>Chamaea fasciata</i>	37-7517 08-03-44	09-02-38 (00)	U-U		Ring 77:95, 1973	6-02
House Wren <i>Troglodytes aedon</i>	108-44450 08-03-71	05-08-65 (99*)	AHY-U		Ring 77:94, 1973	7-02
Carolina Wren <i>Thryothorus ludovicianus</i>	H73200 04-19-39	11-19-34 (99)	U-U	A. R. Laskey, Nashville, Tenn.	PC-JK & EBBA 36:28, 1973	4-10
Mockingbird <i>Mimus polyglottos</i>	36-215596 05-15-45	10-01-36 (99)	U-U	A. R. Laskey, Nashville, Tenn.	PC-JK & EBBA 36:28, 1973	8-11
Gray Catbird <i>Dumetella carolinensis</i>	461076 04-24-38	08-19-26 (99*)	AHY-U	F. Labahn, Blue Is., Ill.	EBBA 9:4, 1946	9-03
American Robin <i>Turdus migratorius</i>	34-302899 01-04-52	05-09-40 (98)	U-U		Ring 77:94, 1973	12-10
Wood Thrush <i>Hylocichla mustelina</i>	62-115684 04-27-70	05-26-62 (00)	AHY-U	R. Cregar, Radnor, Pa.	Ring 77:94, 1973	11-08
Hermit Thrush <i>Catharus guttatus</i>	03-25-34 101-145049	10-25-28 (00)	U-U	B. Karlsru, Phila., Pa.	PC-HF & JK	8-10
Veery <i>Catharus fuscescens</i>	05-15-72	HY-U (13)	Avera, Ga.	W. Pepper, Phila., Pa.	EBBA 36:28, 1973	5-09
			D. Bordner, Island Beach, N.J.		PC-JK	9-11

Eastern Bluebird <i>Sialia sialis</i>						R. J. Fleetwood, Round Oak, Ga. EBBA 9:4, 1946	6-06
Cedar Waxwing <i>Bombayella cedrorum</i>	106-10225 01-28-72						5-07
Loggerhead Shrike <i>Lanius ludovicianus</i>	A279800 07-xx-36	11-06-66 (00)					6-01
Starling <i>Sturnus vulgaris</i>		04-23-31 (01*)				Ring 77:94, 1973	11-09
White-eyed Vireo <i>Vireo griseus</i>	75-60731 03-11-72	11-22-61 (99)					5-09
Yellow-throated Vireo <i>Vireo flavifrons</i>	88-59624 05-15-73	10-19-67 (99)					5-11
Red-eyed Vireo <i>Vireo olivaceus</i>	69-42199 06-09-72	06-01-68 (99)					10-
Warbling Vireo <i>Vireo gilvus</i>	110-70415 04-22-70	06-07-63 (99)					4-10
Black-and-white Warbler <i>Mniotilta varia</i>	24-77393 09-21-68	06-16-66 (99)					11-03
Prothonotary Warbler <i>Protonotaria citrea</i>	40-29355 05-10-45	09-01-57 (13)					5-11
Golden-winged Warbler <i>Vermivora chrysoptera</i>	103-36078 05-17-68	06-16-40 (99)					6-11
Blue-winged Warbler <i>Vermivora pinus</i>	115-83964 05-27-73	05-19-62 (99)					5-11
"Brewster's Warbler" " <i>Vermivora leucobronchialis</i> "		06 01 68 (99)					6-0
Tennessee Warbler <i>Vermivora peregrina</i>	113-63627 05-22-70						4-11
Orange-crowned Warbler <i>Vermivora celata</i>	35-6621 06-09-40	06-26-35 (99)					6-0

Parula Warbler <i>Parula americana</i>	109-83371 09-19-71	09-16-67 (99)	HY-M	M. Metcalf, Marshfield, Vt.	PC-JK	4-03
Yellow Warbler <i>Dendroica petechia</i>	105-91409 05-12-70	05-23-64 (99)	AHY-M	J. M. Conkey, N. Eastham, Mass. R. Patterson, Mt. Desert, Me.	EBBA 9:4, 194 PC-HF & JK	7-02 6-11
Magnolia Warbler <i>Dendroica magnaia</i>	H34352 02-01-40	10-23-33 (97 "killed")		G. Gill, Huntington, L.I., N.Y.	EBBA Oct., 1945	6-08
Myrtle Warbler <i>Dendroica coronata</i>	31-43992 05-26-65	09-10-60 (99)	AHY-M	R. Patterson, Mt. Desert, Me.	PC-HF & JK	5-11
Black-throated Green Warbler <i>Dendroica virens</i>	38-896 07-10-43	06-06-39 (99)	AHY-U M. Belisle	E. Goellner, Manchester, N.H.	PC-AB	5-01
Chestnut-sided Warbler <i>Dendroica pensylvanica</i>	59882 04-09-32	04-16-26 (99*)	AHY-U		Ring 77:95, 1973	6-10
Pine Warbler <i>Dendroica pinus</i>	34-51868 06-13-48	06-17-41 (99)	AHY-M	J. VanTyne, Oscoda Co., Mich.	PC-AB	8-0
Kirtland's Warbler <i>Dendroica kirtlandii</i>	29-12914 09-17-65	09-15-56	AHY-M	D. Kraus, Kingston, R.I.	PC-JK	10-03
Prairie Warbler <i>Dendroica discolor</i>	114-89766 01-19-73	03-03-67 (99)	AHY-U	D. Mendinhal, Samibel, Fla.	PC-HF & JK	6-07
Western Palm Warbler <i>Dendroica palmarum palmarum</i>	34-28161 04-06-41	03-29-36 (99)	AHY-M	L. T. Melcher, Homosassa Springs, Fla.	PC-AB	5-10
Yellow Palm Warbler <i>Dendroica palmarum hypochrysea</i>	69-67006 05-28-71	04-27-64 (99)	AHY-U C. F. Leck	J. Swinebroad, Somerset, N.J.	BB 43:214, 1973	7-11
Ovenbird <i>Seiurus aurocapillus</i>	56-21329 05-13-73	07-18-65 (99)	HY-U	M. Metcalf, Marshfield, Vt.	PC-JK	6-11
Northern Waterthrush <i>Seiurus noveboracensis</i>	72-54884 05-02-70	05-14-67 (99)	AHY-M	Powdermill NR, Rector, Pa.	PC-JK	3-11
Louisiana Waterthrush <i>Seiurus motacilla</i>	38-30320 06-30-44	09-07-38 (99)	AHY-F	A. R. Laskey, Nashville, Tenn.	PC-AB	7-0
Yellowthroat <i>Geothlypis trichas</i>						

Yellow-breasted Chat <i>Icteria virens</i>	62-186066 05-07-72	05-26-64 (99)	AHY-U J. Stewart, Marietta, Ohio	L. Kiff, Pt. Pleasant, W.V. J. Stewart, Marietta, Ohio	PC-HF & JK	8-11
Hooded Warbler <i>Wilsonia citrina</i>				T. D. Carter, Wyanokee, N.J.	EBBA 9:4, 1946	4-11
Canada Warbler <i>Wilsonia canadensis</i>	106-69390 05-25-71	06-28-64 (00)	AHY-F Cleveland Hts., Ohio	R. Pantle, Candor, N.Y.	EBBA 36:165, 1973	7-11
American Redstart <i>Setophaga ruticilla</i>	140-51256 05-28-45	06-21-41 (99)	AHY-F	C. P. Mountz, Stow, Ohio	PC-AB	4-11
House Sparrow <i>Passer domesticus</i>	33-181475 01-20-74	05-15-64 (99)	HY-F	O. L. Austin, Jr., Gainesville, Fla.	PC-JK	9-07
Yellow-headed Blackbird <i>Xanthocephalus xanthocephalus</i>	582-47618 06-08-71	05-19-63 (89)	SY-M Hoven, S.D.	W. C. Royall, Houghton, S.C.		9-0
Red-winged Blackbird <i>Agelaius phoeniceus</i>	35-218437 11-29-49	10-03-35 (00)	HY-M Perquimans Co., N.C.	V. Burtch, Branchport, N.Y.	BB 22:115, 1951	14-05
Tricolored Blackbird <i>Agelaius tricolor</i>	422-16083 03-19-62	05-31-49 (99)	HY-U B. Hill	R. W. DeHaven, Shaftier, Cal.	PC & WBB 48:10, 1973	12-10
Orchard Oriole <i>Icterus spurius</i>	40-143569 05-11-45	07-10-40 (99)	AHY-U	R. Thomas, Little Rock, Ark.	BB 21:147, 1950	6-11
Spotted-breasted Oriole <i>Icterus pectoralis</i>	602-47292 10-07-73	05-15-67 (99)	AHY-U	Ms. B. Fisk, Homestead, Fla.	PC-JK	7-04
Hooded Oriole <i>Icterus cucullatus</i>	105-140355 06-28-72	05-09-67 (00)	SY-M San Diego, Cal.	A. M. Craig, Pt. Loma, Cal.	WBB 48:48, 1973	6-0
Baltimore Oriole <i>Icterus galbula</i>	06-03-43	05-29-37 (99)	U-U	C. A. Stevens, Fargo, N.D.	EBBA 36:29, 1973	7-0
Eastern Meadowlark <i>Sturnella magna</i>	375331 02-16-35	06-14-26 (01)	HY-U C. Gillikin, Beaufort, N.C.	M. B. Gillespie, Oak Bluffs, Mass.	PC-JK	8-08
Rusty Blackbird <i>Euphagus carolinus</i>				S. Weakley	EBBA 36:29, 1973	8-07
Boat-tailed Grackle <i>Cassidix major</i>	A453802 03-xx-45	12-30-32 (01)	U-U St. Petersburg, Fla.	D. M. Morrison, Gulfport, Fla.	BB 21:147, 1950	12-09

Common Grackle <i>Quiscalus quiscula</i>	583-32101 07-23-72	11-13-57 (89)	U-U E. Brunswick, N.J.	G. Detweiler, Whiting, N.J.	PC-JK	16-01
Brown-headed Cowbird <i>Molothrus ater</i>	56-128526 05-14-71	05-03-58 (89)	AHY-F Salisbury, N.Y.	L. C. Stegeman, Syracuse, N.Y.	PC-HF	13-11
Scarlet Tanager <i>Piranga olivacea</i>	40-158464 07-08-56	09-08-48 (00)	AHY-M	R. Middleton, Norristown, Pa.	EBBA 32:226, 1969	9-01
Summer Tanager <i>Piranga rubra</i>	31-127633 05-20-67	05-06-62 (95)	AHY-M	C. H. Blake, Hillsboro, N.C.	PC-JK & IBB 40:61, 1968	5-11
Cardinal <i>Cardinalis cardinalis</i>	53-197516 02-06-68	07-26-54 (99)	HY-F	E. Peacock, Fairfax, Va.	PC-JK	13-08
Rose-breasted Grosbeak <i>Pheucticus ludovicianus</i>	36-20091 05-12-45	06-26-37 (99)	AHY-M	A. C. Goven, Lexington, Mass.	BB 21:148, 1958	8-11
Black-headed Grosbeak <i>Pheucticus melanocephalus</i>	A284151 06-28-38	05-05-33 (99*)	AHY-U		Ring 77:95, 1973	6-0
Indigo Bunting <i>Passerina cyanea</i>	66-80840 07-16-69	05-25-62 (99)	AHY-F	Powdermill NR, Rector, Pa.	PC-JK	8-01
Painted Bunting <i>Passerina ciris</i>	107-24331 10-31-73	02-25-66 (99)	AHY-U	E. J. Fisk, Homestead, Fla.	PC-JK	8-04
Evening Grosbeak <i>Hesperiphona vespertina</i>	54-197708 11-30-68	01-23-56 (89)	AHY-M W. E. Savell, Linwood, N.J.	M. Broun, Hawk Mt., Pa.	EBBA 32:220, 1969	13-05
Purple Finch <i>Carpodacus purpureus</i>	53-63223 02-04-72	03-14-60 (99)	SY-M	C. H. Blake, Hillsboro, N.C.	PC-JK & IBB 40:134, 1968	12-08
House Finch <i>Carpodacus mexicanus</i>	04-xx-53 562-28345 03-15-70	03-xx-43 (89)	AHY-F Sacramento, Cal.	E. C. Ayer, Pamona, Cal.	WBB 29:44, 1954	10-10
Pine Grosbeak <i>Pinicola enucleator</i>	42-10197 01-06-34	12-14-61 (45)	AHY-M	G. Loery, Morris, Conn.	PC-JK	8-09
Pine Siskin <i>Spinus pinus</i>	27-67397 04-22-66	7-16-28 (99*)	U-U		Ring 77:96, 1973	5-11
American Goldfinch <i>Spinus tristis</i>		04-23-58 (99)	AHY-M R. Lof, Storrs, Conn.	F. McCarney, Storrs, Conn.	PC-JK	8-10

Rufous-sided Towhee <i>Pipilo erythrophthalmus</i>	26-152846 07-07-48	03-02-37 (99)	AHY-U	R. E. Ware, Clemson, S.C.	EBBA 26:225, 1963	12-03
Brown Towhee <i>Pipilo fuscus</i>	A274362 11-03-37	07-25-32 (01*)	HY-U		Ring 77:95, 1973	5-05
Abert's Towhee <i>Pipilo aberti</i>	37-217716 01-27-43	02-19-37 (01*)	AHY-U		Ring 77:95, 1973	6-07
Vesper Sparrow <i>Pooecetes gramineus</i>	B91717 05-11-39	05-12-33 (99*)	AHY-U		Ring 77:95, 1973	6-11
Slate-colored Junco <i>Junco hyemalis</i>	F17189 03-05-41	04-07-31 (01)	AHY-U	M. Broun, Lenox, Mass. R. D. Epps, Conway, S.C.	BB 14:46, 1943	10-09
Oregon Junco <i>Junco hyemalis oregonus</i>	37-98767 10-08-45	11-30-37 (00)	U-U	E. K. Kinsey, Manor, Cal.	BB 21:148, 1950	8-04
Gray-headed Junco <i>Junco caniceps</i>	69-24368 12-28-72	01-12-64 (99)	AHY-U	B. McKnight, Cedar Crest, N.M.	WBB 48:49, 1973	8-06
Yellow-eyed Junco <i>Junco phaeonotus</i>	H72690 11-25-38	12-10-32 (99*)	U-U		Ring 77:95, 1973	6-05
Tree Sparrow <i>Spizella arborea</i>	65-58275 03-29-70	12-14-61 (99)	AHY-U	G. Leory, Morris, Conn.	PC-JK	8-09
Chipping Sparrow <i>Spizella passerina</i>				S. Stringer, Beachton, Ga.	EBBA 10:4, 1946	9-09
Field Sparrow <i>Spizella pusilla</i>	101-75429 05-03-67	08-25-61 (99)	AHY-U	Powdermill NR, Rector, Pa.	PC-JK	6-11
Harris Sparrow <i>Zonotrichia querula</i>	01-14-73	01-09-64 (00)	AHY-U	W. Leushen, Wisner, Neb.	PC-JK	9-07
White-crowned Sparrow <i>Zonotrichia leucophrys</i>	613-746 10-21-42	12-26-69 (?)	U-U		Ring 77:95, 1973	13-04
Golden-crowned Sparrow <i>Zonotrichia auricapilla</i>	31-179464 12-16-70	12-21-61 (99)	U-U	W. A. Smith, Grey Lodge, Cal.	WBB 46:43, 1971	9-06
White-throated Sparrow <i>Zonotrichia albicollis</i>	20-173174 01-06-60	12-11-51 (99)	U-U	A. H. Fast	EBBA 26:228, 1963	9-07

Fox Sparrow <i>Passerella iliaca</i>	43516 04-30-29	03-18-20 (99*)	U-U		King 77:95, 1973	9-09
Swamp Sparrow <i>Melospiza georgiana</i>	71-58484 10-03-70	05-08-65 (99)	AHY-U	M. Metcalf, Plainfield, Vt.	PC-JK	6-04
Song Sparrow <i>Melospiza melodia</i>	78-79912 10-18-73	10-07-63 (99)	U-U	A. Collister, Longmont, Colo.	PC-JK	10-04
Snow Bunting <i>Plectrophenax nivalis</i>	S73527 02-11-42	02-22-34 (99)	AHY-U	O. M. Bryens, McMillan, Mich.	EBBA 36:29, 1973	8-08