

## LONGEVITY RECORDS OF NORTH AMERICAN BIRDS: COLUMBIDAE THROUGH PARIDAE

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This paper is the second in a four-part series supplementing and extending an earlier summary by Kennard (*Bird-Banding* 46:55-73, 1975). It is based on an extensive review of the literature and a detailed examination of the records in the Bird Banding Laboratory (hereafter BBL), Laurel, Maryland. A more detailed account of the work done and of changes in format from Kennard (*op. cit.*) is given by Clapp et al. (*J. Field Ornithol.* 53:81-124, 1982).

We have used 5 years of age as a minimum for inclusion of species with a considerable number of bandings, but have arbitrarily included a few records of lesser age for species that have been little studied and for which there is no previous published information.

Data listed in the table of longevities (Table 2) are presented in the same format as in the preceding paper in this series except that we do not use the codes for inexact dates of recovery, because we felt that these might be confusing to the reader. Such inexact dates of recovery have been equated to the earliest date that the bird could have been recovered (e.g., spring = 1 March, cf. Table 1 in Clapp et al., *op. cit.*). The estimated minimum age is calculated by assuming a hatching date of 1 June as was done by Kennard (*op. cit.*).

The recovery total is for those processed through August 1981. The banding total is a composite derived from several sources (Clapp et al., *op. cit.*) and is an inexact, but close, approximation of the total number banded since the inception of bird banding in North America. Reasons for inclusion of recovery and banding totals were given in Clapp et al. (*op. cit.*).

The codes for age and sex (Table 1) are those used by the BBL. "Year" in these codes always refers to the calendar year of banding. Many of the birds listed were banded before some of these codes (e.g., HY, AHY) came into use and a number of the earlier codes (e.g., N, I) do not have the same implications as those used currently (e.g., the previously used N and I for the currently used L and HY); therefore, we have listed age and sex as they appear on the original banding schedules. An age or sex listed in parentheses indicates an age or sex not in the original data that we have added. Such emendations are based either on information received subsequent to the original banding or on the present use of the age codes (U = AHY in January).

One of three symbols is usually given before the common name in the list of longevities in Table 2. A # indicates that this is the same bird listed by Kennard (*op. cit.*). The estimated minimum age for these birds is the same as in Kennard's paper. An \* denotes a bird of greater age than that given in the original list and two \*\* indicate a species not listed by Kennard. An \*# before two entries (Purple Martin and American

TABLE 1. Codes used in list of longevities of North American birds (Table 2).

Codes for age and sex and their verbal equivalent		
A = Adult	HY = Hatching year	M = Male
AHY = After hatching year	I = Immature	N = Nestling
ASY = After second year	J = Juvenile	SY = Second year
F = Female	L = Local	U = Unknown
Codes for "How Recovered"		
00 = Found dead	28 = Caught by hand	
01 = Shot	29 = Sight record; identified by color band or marker other than U.S. Fish and Wildlife Service band	
03 = Caught due to injury	45 = Found dead or injured on highway	
04 = Caught by or due to trap or snare other than used for catching birds	52 = Sight record: band read by telescope or other means	
09 = Caught by or due to hawks, owls, or other raptors	89 = Trapped and released by bander in different 10-minute block than where originally banded	
12 = Caught by or due to cat	99 = Trapped and released by bander in same 10-minute block where originally banded	
14 = Struck or struck by motor vehicle		
16 = Collected as scientific specimen or for scientific study		
20 = Caught due to disease		
21 = Caught or found dead in building or enclosure		

Crow) indicates that these are the same birds as those listed by Kennard, but are listed with greater ages. These resulted from discrepancies we discovered while examining the original data. Three entries (Northern [Yellow-shafted] Flicker, Pileated Woodpecker, and Barn Swallow) that lack a symbol preceding the English name are replacements for entries in Kennard that proved to be invalid and are younger than the birds listed there.

Thirty-seven (40.2%) of the records for the 92 taxa listed in Table 2 represent birds of greater longevity than those listed by Kennard (*op. cit.*). Forty-six (50%) are for taxa not listed in the original paper. Six (6.5%) records represent longevities that have not been exceeded since the original paper and the remaining three (3.3%) records are for birds of lesser age than those in the original paper.

We encourage banders to submit records for avian longevities greater than those listed to the BBL. Copies should be sent to Clapp and Klimkiewicz. We also solicit data on longevity for species not listed here that are older than those listed by Kennard (1975) or by Clapp *et al.* (*op. cit.*) and for species 4 years old or older that are not listed by these sources. This information will be helpful in producing further supplements on the longevity of North American birds.

#### ACKNOWLEDGMENTS

Many people aided us in obtaining the data presented in this paper by supplying us with original banding or recovery data. Many of these

Table 2. Longevity records of North American Birds<sup>1</sup>

Common name	Band number	Banding date		Age-Sex	Bander	Data Source	Age (yr-mo)
		Recovery date	Recovery type				
Scientific name	Recovery Location		Banding Location				
(total recoveries-- total banded)							
*White-crowned Pigeon <u>Columba leucocephala</u> (680-15,849)	344-03708 16 Aug 54 same	23 Jun 42 (01)	N-U	H. A. Beatty, Christiansted, St. Croix, Virgin Is.	BBL	12-02	
*Band-tailed Pigeon <u>Columba fasciata</u> (7998-110,058)	655-65241 28 Dec 81 near Bass Lake, CA	5 Jun 67 (01)	A-U	M. C. Dillon Kalama, WA <sup>9</sup>	BBL	15-06	
**Spotted Dove <u>Streptopelia chinensis</u> (154-2936)	374-12426 28 Feb 44 same	7 Jun 37 (00)	A-U	H. Michener Pasadena, CA	BBL	7-08	
*White-winged Dove <u>Zenaida asiatica</u> (10,922-221,693)	524-25883 10 Mar 80 near Sierra Calarada, Guerrero, Mexico	8 Aug 58 (01)	I-U	Arizona Game & Fish Commission 35 km SW Buckeye, AZ	BBL	21-09	
*Mourning Dove <u>Zenaida macroura</u> (85,087-1,779,885)	573-91412 25 Oct 77 Los Cerritos, Sansare, Guatemala	15 Jun 58 (01)	I-U	W. H. Schuett 29 km N Springfield, CO	BBL	19-04	
*Inca Dove <u>Columba inca</u> (615-6719)	39-213443 5 Mar 46 same	3 Nov 39 (99)	A-U	V. R. Kiessling Tempe, AZ	BBL	7-09	
*Common Ground-Dove <u>Columba passerina</u> (286-13,214)	582-79522 22 Jul 65 same	21 Aug 60 (00)	A-U	Penney Farms 11 km W Green Cove Springs, FL	BBL	6-01	

Table 2. (continued)

**White-tipped Dove <u>Leptoptila verreauxi</u> (84-1056)	673-74403 11 Jan 71 same	27 Feb 63 (99)	A-U	F. O. Novy Santa Ana NWR, Alamo, TX	BBL	8-07
**Black-billed Cuckoo <u>Coccyzus erythrophthalmus</u> (21-6277)	552-98476 14 Jun 69 Woodbridge, CT	10 Jun 65 (00)	(AHV)-U	Long Point Bird Observatory Long Point, Ontario	BBL	5-00
**Yellow-billed Cuckoo <u>Coccyzus americanus</u> (19-6138)	582-81752 23 Jun 64 8 km E Gatlinburg, TN	14 Jun 60 (14)	A-U	E. Tyson St. Petersburg, FL	BBL	5-00
*Common Barn-Owl <u>Tyto alba</u> (971-13,324)	607-74570 3 Nov 76 Magee Marsh, OH	6 Jun 61 (01)	L-U	L. Van Camp Pemberville, OH	BBL	15-05
**Eastern Screech-Owl <u>Otus asio</u> (777-15,246)	505-55649 15 Dec 68 Pinafore Park, St. Thomas, Ontario	20 Nov 55 (09)	(U)-U	M. Field Eglin County, Ontario	BBL	13-06
**Western Screech-Owl <sup>2</sup> <u>Otus kennicottii</u>	295313 5 May 39 same	28 May 26 (00)	J-U	E. L. Sumner, Jr. Claremont, CA	BBL	12-11
*Great Horned Owl <u>Bubo virginianus</u> (1488-14,984)	518-65731 Oct 76 near Hampshire, IL	28 Apr 59 (00)	L-U	D. Seal Rockford, IL	BBL	17-04
#Snowy Owl <u>Nyctea scandiaca</u> (152-1441)	518-83117 Nov 69 129 km SW Coral Harbour, Southamton Is., Kewatin, Northwest Territories	18 Jul 60 (04)	L-U	D. F. Parmalee, Victoria Is., BBL Franklin, Northwest Territories	BBL	9-05
#Burrowing Owl <u>Athene cucularia</u> (91-2810)	A575106 13 Feb 40 Yoakum, TX	7 Jun 32 (04)	A-U	J. F. Brenckle Northville, SD	BB 12:160, 1941 BBL	8-08

Table 2. (continued)

*Barred Owl <i>Strix varia</i> (136-1620)	587-62402 25 Feb 75 Mingo NWR, Puxico, MO	25 Oct 64 (45)	U-(F)	J. P. Rogers Duck Creek WMA, Puxico, MO	BBL	10-08
**Great Gray Owl <i>Strix nebulosa</i> (16-526)	638-57616 31 May 80 R. W. Nero, 14 km N Roseau, MN	9 Mar 74 (89)	AHY-(F)	Manitoba Dept. Mines & Resources, Roseau Bog, MN	BBL	6-11
**Long-eared Owl <i>Asio otus</i> (82-5338)	526-24634 10 Jun 62 Virginiatown, Ontario	5 Feb 54 (00)	A-U	L. G. Lambert Toronto, Ontario	BBL	9-00
**Short-eared Owl <i>Asio flammeus</i> (37-2063)	696-46803 18 Oct 70 Humboldt Bay, CA	5 Aug 66 (01)	I-U	W. M. Hughes Nanaimo, British Columbia	BBL	4-04
**Northern Saw-whet Owl <i>Aegolius acadicus</i> (143-15,398)	604-94602 15 Oct 81 same	19 Oct 75 (99)	AHY-U	D. L. Evans near Arnold, MN	BBL	7-04
**Common Nighthawk <i>Chordeiles minor</i> (33-2462)	42-232611 26 Jun 59 same	7 Jun 50 (99)	(AHY)-F	R. W. Dexter, Kent State University Kent State, OH	BBL	9-00
*Whip-poor-will <i>Caprimulgus vociferus</i> (9-1758)	563-24927 17 Jun 59 same	19 Jun 56 (01)	A-U	F. C. Schmid Patuxent WRC, Laurel, MD	BBL	4-00
**Black Swift <i>Cyseooides niger</i> (1-63)	61-179613 30 Jun 69 Olathe, CO	5 Sep 63 (00)	N-U	J. A. Murphey Silverton, CO	BBL	6-00
*Chimney Swift <i>Chaetura pelagica</i> (26,581-570,227)	24-167605 25 Jun 70 same	16 Sep 57 (99)	(AHY-M)	R. W. Dexter Kent State University Kent State, OH	BBL	14-00

Table 2. (continued)

**Vaux's Swift <u>Chaetura vauxi</u> (7-680)	72-00614 11 Jul 76 same	13 Apr 72 (99)	AHY-U	C. T. Collins 20 km N Maracay, Venezuela	NABB 2:191, 1977, BBL	5-01
**White-throated Swift <u>Aeronautes saxatilis</u> (4-166)	612-85996 17 Feb 75 same	8 Mar 70 (99)	AHY-U	C. T. Collins 11 km SE Mecca, CA	BBL	5-08
*Ruby-throated Hummingbird <u>Archilochus colubris</u> (14-7919)	X12382 10 Sep 75 same	3 Jun 70 (99)	AHY-F	J. C. Johnson 11 km SW Branson, MO	BBL	6-03
**Anna's Hummingbird <u>Calypte anna</u> (1-2740)	X15233 10 Jun 82 same	25 Jun 76 (99)	HY-(F)	Point Reyes Bird Observatory Bolinas, CA	PC-MKK/DD, BBL	6-00
**Broad-tailed Hummingbird <u>Selasphorus platycercus</u> (13-943)	X14958 <sup>3</sup> 14 Jul 79 same	21 Aug 72 (99)	U-(F)	D. W. Inouye Gothic, CO	BBL	7-01
**Allen's Hummingbird <u>Selasphorus sasin</u> (1-1327)	X19349 16 May 80 same	18 Jun 77 (99)	AHY-F	Point Reyes Bird Observatory Bolinas, CA	PC-MKK/DD, BBL	3-11
*Red-headed Woodpecker <u>Melanerpes erythrocephalus</u> (261-7325)	462748 21 May 35 same	23 Jun 26 (00)	A-U	C. E. Traut Battle Creek, MI	BBL	9-11
**Acorn Woodpecker <u>Melanerpes formicivorus</u> (17-1318)	632-2526? <sup>4</sup> 28 Dec 77 K. Bryan, same	Aug/Sep 69 (52)	AHY-U	R. H. Mauer Boot Canyon, Big Bend National Park, TX	PC-MKK/KB, BBL (pt)	9-06
**Gila Woodpecker <u>Melanerpes uropygialis</u> (18-1247)	44-222880 16 Mar 54 same	10 Aug 46 (99)	U-M	J. T. Birckett Tempe, AZ	BBL	7-09

Table 2. (continued)

**Golden-fronted Woodpecker <u>Melanerpes aurifrons</u> (5-282)	572-14223 4 Feb 67 F. O. Novy, same	19 Mar 62 (00)	A-M	W. T. Van Velzen Bentsen Rio Grand State Park, Misson, TX	BBL	5-08
*Red-bellied Woodpecker <u>Melanerpes carolinus</u> (414-10,615)	722-55807 4 Jul 79 same	21 Mar 68 (52)	AHY-M	D. A. Tallman 8 km SSE Manassas, VA	BBL	12-01
*Yellow-bellied Sapsucker <u>Sphyrapicus varius</u> (59-18,248)	110-197920 Mar 79 Summerville, SC	7 Apr 73 (00)	(AHY)-M	R. W. Foy Ship Bottom, NJ	BBL	6-09
*Ladder-backed Woodpecker <u>Picoides scalaris</u> (3-370)	26-116510 2 Dec 68 Laguna Vista, TX	17 Feb 65 (28)	AHY-M	Laguna Atascosa NMR 40 km NE San Benito, TX	BBL	4-06
*Downy Woodpecker <u>Picoides pubescens</u> (3696-89,512)	41-165602 23 Nov 52 same	30 Jan 42 (99)	A-M	C. A. Sturdevant Prattsburgh, NY	BBL	11-05
*Hairy Woodpecker <u>Picoides villosus</u> (831-18,723)	622-82312 7 Apr 80 same	14 Apr 65 (99)	A-F	D. J. Holden Brookings, SD	BBL	15-10
**Red-cockaded Woodpecker <u>Picoides borealis</u> (2-1620)	60-177205 8 Mar 75 D. Johnston, same	22 Nov 62 (29)	AHY-F	C. H. Trost Gainesville, FL	PC-JK/DJ, BBL	13-09
Northern (Yellow-shafted) Flicker <u>Colaptes auratus</u> ssp. (845-55,238)	623-02035 <sup>5</sup> 11 Aug 73 same	31 Mar 65 (00)	A-M	H. W. Kale II Tampa, FL	BBL	9-02
*Northern (Red-shafted) Flicker <u>Colaptes auratus</u> ssp. (103-3842)	37-309348 27 Feb 48 H. Graham, same	26 Oct 41 (28)	(U)-U	H. Graham Los Angeles, CA	BBL	6-08

Table 2. (continued)

**Northern (Gilded) Flicker <u>Colaptes auratus</u> ssp. (2-255)	523-96554 Oct 69 same	7 Oct 63 (00)	(U)-U	F. M. Weideman Tucson, AZ	BBL	6-04						
Pileated Woodpecker <u>Dryocopus pileatus</u> (15-670)	37-402708 20 Jun 51 Aurora, NY	4 Jun 42 (00)	I-F	J. S. G. Hoyt Ithaca, NY	BBL	9-00						
**Olive-sided Flycatcher <u>Contopus borealis</u> (1-1278)	78-30740 11 May 80 same	8 Jun 75 (99)	AHY-U	Point Reyes Bird Observatory Bolinas, CA	PC-RC/BS, BBL	5-11						
**Western Wood Pewee <u>Contopus sordidulus</u> (3-3978)	77-46501 5 Jul 74 Crane Prairie Reservoir, Bend, OR	3 Aug 69 (00)	AHY-U	G. G. Merrick Quinn River, Bend, OR	BBL	6-01						
*Eastern Wood Pewee <u>Contopus virens</u> (38-20,187)	109-85385 15 Jul 71 same	29 Jul 65 (99)	AHY-(M)	C. S. Robbins, Patuxent WRC, Laurel, MD	PC-RC/CSR, BBL	7-01						
**Yellow-bellied Flycatcher <u>Empidonax flaviventris</u> (7-21,773)	F38047 May 34 Groton, MA	29 May 31 (12)	AHY-U	W. P. Wharton near Ayer, MA	BBL	3-11						
**Acadian Flycatcher <u>Empidonax virescens</u> (10-8083)	102-38365 29 May 72 C. S. Robbins, same	18 Jun 62 (99)	AHY-M	D. Bridge Patuxent WRC, Laurel, MD	PC-RC/CSR, BBL	10-11						
*Willow (Traill's) Flycatcher <u>Empidonax traillii</u> (46-29,495)	104-41346 5 Jun 69 same	9 Jun 63 (99)	AHY-U	L. Lenz Huntington Woods, MI	PC-RC/JJF, BBL	7-00						
**Alder (Traill's) 6 Flycatcher <u>Empidonax alnorum</u>	1300-02379 5 Aug 76 G. F. Bennett, same	30 Jul 73 (99)	U-U	A. D. Smith near Jolicure, New Brunswick	BBL	3-02						



Table 2. (continued)

**Least Flycatcher <u>Empidonax minimus</u> (30-52,873)	H93386 17 May 38 same	31 May 33 (00)	A-F	L. O. Shelby East Westmoreland, NH	BBL	5-11
**Western Flycatcher <u>Empidonax difficilis</u> (11-9123)	78-30677 20 Jun 77 same	14 Jul 72 (99)	AHY-F	Point Reyes Bird Observatory Bolinas, CA	PC-RC/BS, BBL	6-00
*Eastern Kingbird <u>Tyrannus tyrannus</u> (54-11,665)	42-203159 22 May 53 same	13 Jul 43 (12)	I-U	H. W. Schaars Ashland, WI	BBL	9-11
#Western Kingbird <u>Tyrannus verticalis</u> (20-3596)	35-139818 30 May 41 same	26 May 35 (01)	A-U	J. F. Brenckle Northville, SD	BB 14:73, 1943 BBL	6-11
*Great Crested Flycatcher <u>Myiarchus crinitus</u> (77-12,170)	52-133654 30 May 67 Fairlee, VT	24 Aug 53 (00)	(U)-U	F. P. Frazier, Sr. Upper Montclair, NJ	BBL	13-11
**Brown-crested (Wied's) Flycatcher <u>Myiarchus tyrannulus</u> (2-471)	55-135174 1 Jun 66 A. Cruickshank, same	16 May 59 (00)	(AHY)-U	D. L. Bleitz Madera Canyon, AZ	BBL	8-00
**Ash-throated Flycatcher <u>Myiarchus cinerascens</u> (5-1179)	73-131840 9 May 76 same	9 May 72 (99)	AHY-U	Point Reyes Bird Observatory Bolinas, CA	PC-RC/BS, BBL	4-11
*Eastern Phoebe <u>Sayornis phoebe</u> (196-51,769)	A69017 5 Jul 35 same	2 Jul 27 (99)	A-U	S. E. Perkins III Culver, IN	BB 8:58, 1937 BBL	9-01
**Black Phoebe <u>Sayornis nigricans</u> (14-2814)	850-40845 15 Jun 78 same, Goleta Slough, CA	14 May 75 (89)	L-U	University of California Santa Barbara, Gavvota, CA	BBL	3-00

Table 2. (continued)

**Horned Lark <u>Eremophila alpestris</u> (87-11,718)	820-73321 14 Jul 78 R. L. Boyd, same	20 Jun 72 (52)	AHY-M	R. A. Ryder Pawnee National Grasslands, Nunn, CO	NABB 4:142, 1979, BBL	7-01
*#Purple Martin Progne subis (829-66,452)	B261331 Spring 47 G. C. Arthur, same	1 Jul 33 (00)	I-U	L. Hunter Dallas City, TX	BBL	13-09
*Tree Swallow <u>Iridoprocne bicolor</u> (2843-171,867)	75-48658 15 Jun 80 same	17 Jun 70 (99)	SY-(F)	Long Point Bird Observatory Long Point, Ontario	LP80 Newsl. 11:7, 11-00 1979, BBL	11-00
**Violet-green Swallow <u>Tachycineta thalassina</u> (38-3576)	78-42790 3 Apr 77 same	6 Jun 71 (99)	AHY-M	Point Reyes Bird Observatory Bolinas, CA	PC-RC/BS, BBL	6-10
*Bank Swallow <u>Riparia riparia</u> (1467-189,778)	63-03843 15 Jun 68 D. Stoner, New Berlin, WI	13 Jun 61 (89)	A-(F)	W. N. MacBriar, Jr. Waukesha, WI	BB 41:130, 1970 BBL	8-00
**Rough-winged Swallow <u>Steigodopteryx ruficollis</u> (12-6415)	115-06291 6 May 72 same	3 May 67 (99)	A-U	C. A. Ely Hays, KS	PC-RC/CAE, BBL	5-11
Barn Swallow <u>Hirundo rustica</u> (1128-184,488)	34-88541 <sup>7</sup> 13 Jul 42 same	1 Jul 35 (99)	A-F	W. P. Wharton Groton, MA	BBL	8-01
*Cliff Swallow <u>Petrochelidon pyrrhonota</u> (6 795-84,192)	68-18370 14 Jun 71 same	22 Jun 63 (00)	A-M	M. C. Thomason Princeton, MA	BBL	9-00
*Gray Jay <u>Perisoreus canadensis</u> (160-2331)	A283458 6 Aug 46 D. S. Farmer, same	27 Dec 37 (16)	A-U	W. T. Frost Crater Lake National Park, OR	BB 18:32, 1947 BBL	10-02

Table 2. (continued)

	823-59016 27 Jun 76 same	5 Jul 66 (99)	A-M	Point Reyes Bird Observatory Bolinas, CA	PC-RBC/BS, BBL	11-00
*Steller's Jay <u>Cyanocitta stelleri</u> (312-8774)						
*Blue Jay <u>Cyanocitta cristata</u> (22,250-414,669)	763-38263 Oct 81 same	21 Sep 63 (21)	U-U	H. Goldman Glen Falls, NY	BBL	18-04
*Green Jay <u>Cyanocorax yncas</u> (758-1550)	623-79459 3 Feb 70 F. O. Novy, same	6 Mar 60 (99)	A-U	Laguna Atascosa NWR Santa Ana NWR, Alamo, TX	BBL	10-08
*Scrub Jay <u>Aphelocoma coerulescens</u> (616-11,549)	A289715 18 Mar 48 same	24 Jun 32 (20)	I-U	E. D. Clabaugh Berkeley, CA	BBL	15-09
*Gray-breasted (Mexican) Jay <u>Aphelocoma ultramarina</u> (37-1021)	1153-21051 30 Mar 79 same	29 Jan 70 (99)	ASY-U	J. L. Brown Portal, AZ	BBL	10-09
**Pinyon Jay <u>Gymnorhinus cyanocephalus</u> (95-5466)	1073-70782 28 Mar 79 Whiteriver, AZ	5 Sep 72 (01)	ASY-F	R. P. Balda Flagstaff, AZ	BBL	8-09
#Clark's Nutcracker <u>Nucifraga columbiana</u> (65-1646)	503-86500 13 Nov 69 same	4 Aug 52 (99)	I-U	D. S. Farner Crater Lake National Park, OR	WBB 45:46, 1970 BBL	17-05
**Black-billed Magpie <u>Pica pica</u> (285-11,525)	524-81846 20 Jun 72 11.3 km NW Speers, Saskatchewan	23 Jun 67 (01)	N-U	C. S. Houston Speers, Saskatchewan	BBL	5-00
**Yellow-billed Magpie <u>Pica nuttalli</u> (5-148)	1073-94750 19 May 78 W. Koenig, same	21 Feb 70 (00)	ASY-F	J. Davis Hastings Reservation, Jamesburg, CA	BBL	9-11

Table 2. (continued)

*American Crow <u>Corvus brachyrhynchos</u> (1680-15,752)	2111238 13 Jan 38 Sherman, SD	16 Apr 24 (01)	A-U	A. L. Holm Otto, Manitoba	BBN 2:293, 1938 BB 13:112, 1942 BBL	14-07
**Northwestern Crow <u>Corvus caurinus</u> (42-588)	A506262 15 Apr 45 same	27 Jan 33 (01)	A-U	J. A. Flett Duncan, British Columbia	BBL	12-10
*Fish Crow <u>Corvus ossifragus</u> (56-765)	102331 Dec 35 Jeanerette, LA	31 Mar 22 (04)	(AHY)-U	E. A. McIlhenny Avery Island, LA	BBL	14-06
**Common Raven <u>Corvus corax</u> (437-6707)	637-40997 9 Oct 79 Advocate Harbor, Nova Scotia	5 Feb 67 (00)	A-U	C. K. Coldwell Wolfville, Nova Scotia	BBL	13-04
*Chihuahuan (White-necked) Raven <u>Corvus cryptoleucus</u> (118-1224)	B647009 14 Dec 43 Big Spring, TX	13 Nov 31 (01)	U-U	E. R. Kalmbach Spur, TX	BBL	12-06
#Black-capped Chickadee <u>Parus atricapillus</u> (14,275-327,087)	25-62121 9 Nov 68 same	12 Oct 56 (99)	U-U	J. H. Kennard Bedford, NH	BBL	12-05
#Carolina Chickadee <u>Parus carolinensis</u> (1404-39,889)	22-53814 26 May 67 same	31 Mar 57 (99)	A-U	W. H. Jenkins Elmer, NJ	PC-JK, BBL	10-11
*Mountain Chickadee <u>Parus gambeli</u> (142-16,741)	106-74819 6 Jul 74 same	13 May 65 (29)	A-M	K. L. Dixon Beaver Mountain Ski Area, UT	WB 6:162, 1975 BBL	10-01
**Chestnut-backed Chickadee <u>Parus rufescens</u> (85-4663)	119-10625 11 Mar 77 same	3 Aug 69 (10)	HY-U	Point Reyes Bird Observatory Bolinas, CA	PC-RC/BS, BBL	7-09

Table 2. (continued)

**Bridled Titmouse <u>Parus wollweberi</u> (1-108)	116-89181 13 Jan 74 S. H. Spofford, same	3 Aug 68 (99)	AHY-U	A. Collister Portal, AZ	NABB 2:40, 1977 BBL	6-07
**Plain Titmouse <u>Parus inornatus</u> (253-4193)	51-75647 4 Jun 64 same	26 Aug 56 (99)	(U)-U	R. M. Thomssen Sonoma, CA	WBB 40:32, 1965 BBL	8-00
*Tufted (Eastern) Titmouse <u>Parus bicolor ssp.</u> (4460-81,727)	32-102711 10 Sep 74 same	19 Apr 62 (03)	(AHY)-U	S. Mitchell Newport News, VA	BBL	13-03
**Tufted (Black-crested) Titmouse <u>Parus bicolor ssp.</u> (7-692)	105-14054 6 Mar 67 F. O. Novy, same	20 Feb 63 (99)	A-U	A. Collister Bentsen Rio Grande State Park, Mission, TX	BBL	4-09

- (1) All measurements of distance given in this table were in English in the original data. These have been converted to the metric system. We also used several abbreviations to conserve space. These are BB (Bird-Banding), BBN (Bird Banding Notes), LPBO (Long Point Bird Observatory), NABB (North American Bird Bander), NWR (National Wildlife Refuge), WB (Western Birds), WBB (Western Bird Bander), WMA (Wildlife Management Area), and WRC (Wildlife Research Center).
- (2) We do not know how many of the birds banded as Eastern Screech-Owls were actually Western Screech-Owls but have found a valid longevity record in the BBL files for the latter based on its known range. The totals for Eastern Screech-Owl include both species.
- (3) X14958 was originally banded as an "unidentified hummingbird" but was identified and sexed when recaptured 15 Aug 77.
- (4) Number partially read from photograph and determined to be one of three birds (632-25261, 62, or 63) banded on 10 Aug 1969 and 29 Sep 1969 at the same location.

Table 2. (continued)

- (5) The bird listed by Kennard (1975) was originally banded 490801 and listed in several journals (Jack-Pine Warbler 17:13, 1939; BB 13:74, 1942; EBBA 36:27, 1973). When we examined this record at the BBL we found that it had been coded as "found dead" but was actually on a skeleton found in a soot trap. Consequently, we have discarded the earlier record.
- (6) Most of the Alder Flycatchers were banded as Empidonax traillii. Thus we can give no adequate figures for banding and recovery for this species.
- (7) Bird 63-15554, listed by Kennard (1975, cf EBBA News 34:211 [1971]) was found to be a misread Hairy Woodpecker number and was removed from the BBL files in December 1979.
- (8) The last digit of this band was illegible but was determined by the BBL to be either 3 or 4. Number 211123 was entered into the BBL files because both birds had identical banding data.
- (9) The 2-letter U.S. Postal Service abbreviations have been used for states of the United States because of space limitations.

individuals are listed in Table 2; we thank them and all others for their help. Kelly Bryan, David DeSante, Charles A. Ely, John J. Flores, David W. Johnston, Chandler S. Robbins, and Bruce Sorrie were particularly helpful in supplying data for this part of the supplement.

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