

JOURNAL OF FIELD ORNITHOLOGY

Formerly BIRD-BANDING

A Journal of Ornithological Investigation

VOL. 53, No. 2

SPRING 1982

PAGES 81-208

J. Field Ornithol., 53(2):81-124

LONGEVITY RECORDS OF NORTH AMERICAN BIRDS: GAVIIDAE THROUGH ALCIDAE

BY ROGER B. CLAPP, M. KATHLEEN KLIMKIEWICZ, AND
JOHN H. KENNARD*

A list of longevity records of North American birds was published by Kennard (1975). This list was compiled by starting with the lists published by Gill (1945, 1946), reviewing subsequent literature, adding reports received in response to requests published in regional banding publications, and using somewhat incomplete data from Rydzewski's (1962, 1963, 1973) lists in *The Ring*.

Following Kennard's publication, Kennard received a great deal of correspondence giving additional data and correcting entries in the 1975 list and found more information in recent literature. In the meantime Clapp searched further into the literature, including all volumes of *Bird-Banding*, and found original references to records quoted from *EBBA News* and *The Ring* as well as some records that had been missed in Kennard's paper. Clapp also searched the August 1978 Recovery Retrieval File, a microfiche list of recoveries in the Bird Banding Laboratory (hereafter BBL), and discovered many unpublished longevity records greater than those in the 1975 list as well as a considerable number of longevity records for species not included there. Both Clapp and Klimkiewicz, aided by members of the staffs of the BBL and the Ecology Section of the Denver Wildlife Research Center, verified records from the literature and the microfiche by checking the original banding schedules and recovery letters. Clapp and Klimkiewicz also searched through subsequent microfiche files so that the records presented here would be as complete as possible, and current through material processed at the BBL through December 1981.

Originally we had intended to include only corrections or emendations of earlier reports, greater longevity records for species listed in the first paper, or species for which no longevity record was previously given. As we neared completion of the manuscript it became evident that few entries from Kennard's paper would remain unchanged; therefore, we thought it best to include all species listed in the original paper so that the reader would have easy access to current information on the longevity of all North American and central Pacific species. The records for two species (American Avocet, *Recurvirostra americana*, and Purple Gallinule, *Porphyryula martinica*) listed in the original paper proved to be invalid and are not included here.

* deceased

Kennard (1975) used a minimum of 5 years of age as a cut-off for inclusion, but we have arbitrarily included a number of species of lesser age in the supplement for several reasons. In some instances, age records obtained by personal communication were greater than anything listed in the files of the BBL and it seemed worthwhile to make these data available. In other instances the age records are for species seldom banded or for which there are very few returns or recoveries in the BBL files. These records are included not only to provide a more complete list but also to stimulate banders to check their data for records of greater longevity. We have made no attempt to list longevities for sea- or waterbirds of less than 5 years since such records have little or no significance. For some groups (e.g., shearwaters, shorebirds), the existing longevity data are often more a matter of band longevity than bird longevity.

Data listed in the table of longevities (Table 2) are presented in the general format of the original paper. On the first line of each entry we give the English name, band number, the date banded, the age and sex when banded if known, the bander or agency responsible for the banding, and location of banding.

On the second line we list the scientific name, the date recovered, the BBL code describing how the bird was obtained (Table 1), where it was found (if this is different from where it was banded) and the estimated minimum age in years and months. We sometimes also list the person who recovered the bird, but usually do so only when his role in obtaining the data seemed relevant (i.e., a biologist or bander who might reasonably be expected to be familiar with identification of birds). The estimated minimum age is calculated by assuming a hatching date of 1 June. This is not precise for some species that hatch young at other times of year, but we feel that such estimations are of more value than figures for elapsed time between banding and recovery that make no allowance for the age of the bird when it was banded. In a few instances we have emended the estimated minimum age (e.g., Leach's Storm Petrel) or noted that a species was actually older than the estimated minimum age (e.g., Laysan Albatross) based on our knowledge that some birds first breed at more than one year of age or because we recognize that some birds in adult plumage are more than one year old. The number of species covered as well as the variability of breeding seasons from region to region prevented us from making extensive calculations of this nature, but the data presented should allow the reader to make such adjustments as may be necessary in the light of other information.

The third line lists the number of recoveries for the species, the number of birds banded through August 1981 and the source of our data. The designation BBL by itself indicates that the data came from the files of the Bird Banding Laboratory, Patuxent Wildlife Research Center, Laurel, Maryland. When other sources (reports in the literature, personal communication) were the primary source of information, the

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

Codes for inexact date of recovery

99 = Unknown date or month. This replaces xx in Kennard (1975)	82 = Summer = 1 June
41 = 1st ten days of month	83 = Spring = 1 March
42 = 2nd ten days of month	93 = Fall = 1 September
	94 = Hunting Season = 1 September

Codes for age and sex and their verbal equivalents

A = Adult	F = Female	M = Male
A4Y = After fourth year	HY = Hatching year	N = Nestling
AHY = After hatching year	I = Immature	S = Subadult
ASY = After second year	J = Juvenile	SY = Second year
ATY = After third year	L = Local	U = Unknown

Codes for "How Recovered"

00 = Found dead	31 = Caught by or due to miscellaneous species of animals
01 = Shot	33 = (pre 1965) nesting in same 10- minute block of latitude and longitude, or
03 = Caught due to injury	= (post 1965) caught or observed at or in nest
04 = Caught by or due to trap or snare other than those for catching birds	45 = Found dead or injured on highway
07 = Caught by or due to miscellaneous 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	97 = Miscellaneous means of recovery
14 = Struck or struck by motor vehicle	99 = Trapped and released by bander in same 10-minute block where originally banded
16 = Collected as scientific specimen or for scientific study	
26 = Caught by or due to entanglement in fishing gear	
28 = Caught by hand	
29 = Sight record: identified by color band or marker other than U.S. Fish and Wildlife Service band	

BBL designation indicates that the information exists in the files of the BBL. The designation BBL (pt.) indicates that part of the data (usually the banding data) are in the files of the BBL but that other information is not.

This listing departs from the original (Kennard 1975) in several ways. Dates follow the codes of the BBL more strictly than in the first paper, and appear as they would be printed by the BBL computer. Six codes for inexact dates of recovery appear in this paper (Table 1). We equated these codes to certain dates to permit age calculations and picked these dates to minimize error in the estimated minimum age.

The codes for age and sex (Table 1), with the exception of the A4Y age code, are those used by the BBL. "Year" in these codes always refers to the calendar year of hatching. Many of the birds listed were banded

well 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 or from other sources of information. In a few instances (e.g., Arctic Tern) no schedule was ever submitted and the banding data were obtained by the BBL through correspondence with the bander. We occasionally list age and, more frequently, sex in parentheses. This indicates an age or sex not in the original data that we have added based on information received subsequent to the original banding or the present use of the age codes (e.g., U = AHY in January).

The totals for numbers recovered and banded are another departure from the format of the original paper. The first figure listed in parentheses beneath the scientific name is the number of recoveries in the BBL files as of August 1981. The second number is a composite figure that indicates the total number banded since the inception of bird banding in North America. Because the banding totals on the BBL computer through 1981 are complete only for gamebirds (Anseriformes, Gruiformes, Columbiformes, and two Charadriiformes—American Woodcock and Common Snipe) we have derived our banding totals for other species from three sources. The first source for non-game birds was the banding totals listed by the BBL computer through August 1981. This figure includes all birds banded since 1955 but not those banded before that year. Our second source was the BBL banding totals through 1953 as given by Van Velzen (1964). The third source was the banding totals in the BBL files for 1954 (Van Velzen 1965). We emphasize that our figures are not exact. Van Velzen's (1964) total included schedules received through April 1954 that undoubtedly include some totals for 1954. The discrepancy from the true total is probably slight because most schedules are received late in the year. There are also some errors in Van Velzen's list (e.g., Great Frigatebirds were listed as Magnificent Frigatebirds) some of which we have been able to correct. We list no totals for numbers of gallinaceous birds recovered and banded because management of these species is now administered by state game agencies and totals are not available in the BBL.

We give recovery and banding totals for several reasons. First, they help in evaluating the significance of the longevity records. When large numbers of short-lived species have been banded, particularly species not known to remove bands or for which bands may reasonably be expected to outlast the bearer, the longevity given probably represents a close approximation of the maximum longevity that may be expected in the wild. This is particularly true for a number of passerines which will be listed in ensuing parts of this tabulation. For other species where only moderate or small numbers of birds have been banded or re-

covered, longevities given here are almost certainly not the maximum that may be attained in the wild. For yet other species, such as most of those included here, our longevity records more often constitute a report on the "state of the art" both in terms of the amount of work that has been done with each species and in terms of the development of more durable bands for marking these birds.

A second reason for presenting banding and recovery figures is to aid in further research involving banding. Although banding and recovery figures are not strictly comparable, they may allow a fair estimate of the amount of work needed to obtain a given number of recoveries. This would not be true, however, for certain groups (e.g., the seabirds, largely banded by the Smithsonian Pacific Ocean Biological Survey Program [POBSP], where a great number of the recoveries were obtained by the program itself) but would likely be helpful for most species. In addition, a quick look through these figures will soon reveal those species that have been least subjected to the kinds of studies for which a marking program is necessary or helpful (e.g., dispersal, breeding biology, territoriality).

We have usually added one of three symbols before the common name in the list of longevities given below. A # indicates that this is the same bird listed by Kennard (1975). The estimated minimum age for these birds is usually the same as in the earlier paper but some have been changed because of additional data obtained since the first listing or because we discovered a discrepancy in the original data. An * denotes a bird of greater age than in the original list and two ** indicate a species not listed by Kennard (1975). Nine entries that lack a symbol preceding the English name (e.g., Brown Pelican) are records that replace entries in Kennard (1975) which upon further examination proved to be invalid. In all 9 instances the longevities of the birds are less than those listed in the earlier paper.

Fifty-four (27.8%) of the records of the 194 species or forms given in the following list are for birds of greater longevity than those listed by Kennard (1975). Another 109 (56.2%) longevity records are for taxa not listed in the original paper. Twenty-two (11.3%) records are the same as those given in the original paper, and the remaining 9 records (4.6%) are birds of lesser age that replace incorrect records in the original paper.

We encourage banders to submit records for avian longevities that exceed those listed here to Clapp and Klimkiewicz at the addresses listed at the end of this paper. We also solicit data on longevity for species not listed here that are older than those listed in Kennard (1975), and we wish to obtain data for species 5 years old or older that are not listed here or by Kennard. This information will be helpful in producing further supplements on the longevity of North American birds.

TABLE 2. Longevity records of North American birds.¹

Common name Scientific name (total recoveries— total banded)	Band number Recovery date	Banding date (Recovery type)	Age-Sex		Bander, banding locale	Data source	Age (yr-mo)
			Recovery locale	Recovery locale			
# Common Loon	34-669536	2 Sep 35	U-U		W. I. Lyon, Manitoulin Island, Ontario		
<i>Gavia immer</i> (82-624)	25 Apr 43	(00) near Beach Haven, New Jersey				BB 16:15, 1945, BBL	7-10
**Horned Grebe	546-01117	10 Aug 51	A-U		H. A. Hansen, Tetlin, Alaska	BBL	5-02
<i>Podiceps auritus</i> (67-3330)	21 Aug 61	(99)					
**Eared Grebe	496-94240	25 Jul 51	A-U		I. Mct. Cowan, Westwick, Cariboo, British Columbia	BBL	5-02
<i>Podiceps nigricollis</i> (48-3835)	6 Aug 55	(99)					
**Short-tailed Albatross	558-30754	10 Mar 64	N-U		Yamashina Institute, Torishima Island, Japan		
<i>Diomedea albatrus</i> (9-65)	26 Oct 81	(89) M. Naughton, Midway Atoll, NW HI				BBL	17-04
*Black-footed Albatross	498-85490	13 Feb 52	A-U		R. R. Sheehan, Midway Atoll, NW HI		
<i>Diomedea nigripes</i> (3874-56,167)	22 Feb 79	(99) J. P. Ludwig				BBL	27-08
#Laysan Albatross ²	38-714328	24 Nov 38	(ATY- U)		W. A. Wright, Midway Atoll, NW HI		

TABLE 2. Continued.

Common name Scientific name (total recoveries— total banded)	Band number Recovery date	Banding date (Recovery type)	Age-Sex Recovery locale	Bander, banding locale	Data source	Age (yr-mo)
<i>Diomedea immutabilis</i> (50,001-183,991)	30 Nov 72	(99) H. I. Fisher			BBL	37-05
**Northern Fulmar	526-17256	Mar 53	(AHY- U)	L. M. Tuck, Grand Banks, Newfoundland		
<i>Fulmarus glacialis</i> (3-708)	8 Oct 59	(26) off SW coast Greenland			BBL	7-04
**Phoenix Island Petrel	514-79112	23 Mar 64	A-U	POBSP, Motu Upua Islet, Christmas Island, Pacific Ocean		
<i>Pterodroma alba</i> (157-9837)	3 Oct 74	(33) H. Grossman, same			BBL	11-04
**Dark-rumped Petrel	554-28201	11 May 66	A-U	Mt. Haleakala, Maui Island, Hawaiian Islands		
<i>Pterodroma phaeopygia</i> (1-56)	20 Jun 72	(33) same			BBL	7-00
**Bonin Island Petrel	603-04088	21 Nov 56	A-U	C. S. Robbins, Sand Island, Midway Atoll, NW HI		
<i>Pterodroma hypoleuca</i> (337-21,419)	Feb 66	(00) same			BBL	10-08
**Bulwer's Petrel	542-75325	31 May 58	A-U	D. W. Rice, Laysan Island, NW HI		
<i>Bulweria bulwerii</i> (68-2322)	20 Jun 79	(99) E. Knudtson			BBL	22-00

TABLE 2. Continued.

Common name	Band number	Banding date	Age-Sex	Recovery locale	Banders, banding locale	Data source	Age (yr-mo)
Scientific name	Recovery date	(Recovery type)					
(total recoveries—total banded)							
**Greater Shearwater	756-12168	18 Jul 72	U-U		Bowdoin College, at sea, 17.7 km SE Whitehead, New Brunswick		
<i>Puffinus gravis</i> (7-550)	9 Jul 79	(26) At sea, 16.1 km ESE Green Island, Newfoundland			Thunder Bay,	BBL	7-01
**Wedge-tailed Shearwater	705-12346	23 Apr 69	ATY-U		POBSP, Kure Atoll, NW HI		
<i>Puffinus pacificus</i> (4704-83,981)	22 Jun 80	(99) C. S. Harrison				BBL	14-00
**Christmas Island Shearwater	705-17762	25 Aug 68	ATY-U		POBSP, Sand Island, Johnston Atoll, Pacific Ocean		
<i>Puffinus nativitatis</i> (730-10,624)	Spring 75	(00) same				BBL	10-09
**Fork-tailed Storm Petrel	53-193813	11 Jun 74	AHY-U		Aleutian NWR, Buldir Island, Alaska		
<i>Oceanodroma furcata</i> (21-5448)	25 Jun 79	(99)				BBL	6-00
*Leach's Storm Petrel	54-29224 ³	7 Jul 56	(A4Y-M)		C. E. Huntington, Kent Island, New Brunswick		
<i>Oceanodroma leucorhoa</i> (2017-58,038)	25 Jun 81	(99)				PC-KK/ CH, BBL	29-00

TABLE 2. Continued.

Common name Scientific name (total recoveries— total banded)	Band number		Banding date		Age-Sex		Data source	Age (yr-mo)
	Recovery date		(Recovery type)		Recovery locale	Bander, banding locale		
**Sooty Storm Petrel	632-20412		27 Feb 63		A-U	POBSP, Pearl and Hermes Reef, NW HI	BBL	9-09
<i>Oceanodroma tristrami</i> (25-1227)	14 Mar 72		(99) E. Kridler					
**Ashy Storm Petrel	67-150076		13 Jun 64		A-U	E. J. Veitch, Farallon Island, California	BBL	8-00
<i>Oceanodroma homochroa</i> (19-3296)	27 Jun 71		(00) D. Ainley, same					
**Red-billed Tropicbird	565-45964		8 Dec 76		AHY-U	R. Dewey, Cas Cay, 7.2 km ESE Charlotte Amalie, St. Thomas, Virgin Islands		
<i>Phaethon aethereus</i> (1-112)	21 Sep 80		(99)				BBL	5-03
*Red-tailed Tropicbird	595-56645		26 Jun 63		A-U	N. P. Ashmole, Motu Tabu Islet, Christmas Island, Pacific Ocean	BBL	16-01
<i>Phaethon rubricauda</i> (589-17,539)	4 Jul 80		(89) R. W. Schreiber, Christmas Island, Pacific Ocean					
*American White Pelican	34-708423		7 Jul 35		I-U	H. M. Worcester, Clear Lake Refuge, Modoc County, California		
<i>Pelecanus erythrorhynchos</i> (4344-60,179)	25 Nov 61		(00) Gerber Reservoir, near Lorella, Oregon				BBL	26-05

TABLE 2. Continued.

Common name	Band number	Banding date	Age-Sex	Recovery	Age
Scientific name	Recovery date	(Recovery type)	Recovery locale	locale	(yr-mo)
(total recoveries—total banded)					
Brown Pelican	488-02414	23 Jun 51	L-U	W. M. Davidson, Hall Island, Banana River, Florida	BBL 19-08
<i>Pelecanus occidentalis</i> (3510-108,980)	11 Feb 71	(00) Banana River, Florida			
*Blue-faced Booby	41-720687	11 Sep 41	J-U	G. C. Munro, Howland Island, Pacific Ocean	BBL 25-03
<i>Sula dactylatra</i> (14,112-35,993)	19 Sep 66	(97) POBSP			
**Brown Booby	737-37524	19 Jun 63	A-(F)	POBSP, Pearl and Hermes Reef, NW HI	BBL (pt.) 16-01
<i>Sula leucogaster</i> (827-5680)	24 Jul 78	(33) R. B. Clapp, same			
*Red-footed Booby	44-725171	14 Jun 47	A-U	G. C. Munro, Ulupau Head, Oahu, Hawaiian Islands	BBL 21-11
<i>Sula sula</i> (3318-33,776)	27 May 68	(00) Kailua, Oahu, Hawaiian Islands			
*Northern Gannet	662368	6 Aug 29	N-U	W. M. Duval, Bonaventure Island, Quebec	BBL 20-03
<i>Morus bassanus</i> (704-12,797)	Fall 49	(00) near Gabarouse, Nova Scotia			
**Great Cormorant	37-801919	10 Jul 37	J-U	H. F. Lewis, Lake Island, Saquenay, Saquenay Co., Quebec	

TABLE 2. Continued.

Common name	Band number	Banding date	Age-Sex	Data source	Age (yr-mo)
Scientific name	Recovery date	(Recovery type)	Recovery locale	Bander, banding locale	
(total recoveries—total banded)					
<i>Phalacrocorax carbo</i> (162-2448)	Fall 51	(01) Englishtown, Cape Breton, Nova Scotia		BBL	14-04
Double-crested Cormorant	41-809505	30 Jun 41	L-U	H. S. Southam, Big Pilgrim Island, Quebec	
<i>Phalacrocorax auritus</i> (4174-48,028)	Feb 59	(00) J. Tucker, Jr., Stuart, Florida		BBL	17-08
**Olivaceous Cormorant	527-05297	27 Apr 65	(AHY)-U	Sabine NWR, Cameron Parish, Sulphur, Louisiana	
<i>Phalacrocorax olivaceus</i> (9-543)	5 Jan 77	(00) 24.1 km W Hackberry, Louisiana		BBL	12-07
**Brandt's Cormorant	598-45136	9 Aug 70	L-U	Point Reyes Bird Observatory, Farallon Island, California	
<i>Phalacrocorax penicillatus</i> (518-7756)	27 Nov 79	(00) Crissy Field, San Francisco, California		BBL	9-05
**Pelagic Cormorant	587-01117	29 Jul 56	L-U	E. D. Wood, Chain Island, Victoria, British Columbia	
<i>Phalacrocorax pelagicus</i> (110-3628)	29 Apr 74	(00) Crab Island, Victoria, British Columbia		BBL	17-10
*American Anhinga	36-719287	24 May 36	U-U	B. B. Coffey, Jr., Glen Allan, Mississippi	
<i>Anhinga anhinga</i> (55-2028)	20 May 48	(01) 29.0 km N Natchitoches, Louisiana		BBL	11-11

TABLE 2. Continued.

Common name	Band number	Banding date	Age-Sex	Recovery date	Recovery type	Recovery locale	Bander, banding locale	Data source	Age (yr-mo)
**Magnificent Frigatebird	977-06963	9 Nov 72	AHY-F	2 Aug 78	(26)	near Marigot, St. Martin, Lesser Antilles	A. W. Diamond, Barbuda, Lesser Antilles	BBL	7-02
<i>Fregata magnificens</i> (15-451)									
**Great Frigatebird	39-722380	(3/4) Aug 39	A-(F)	15 Jun 68	(33)	POBSP, same	J. E. A. Kinney, Jarvis Island, Line Islands, Pacific Ocean	BB 40-47, 1969, BBL	30-00
<i>Fregata minor</i> (480-16,811)									
**Lesser Frigatebird	747-65490	12 Nov 64	A-M	10 Jun 80	(00)	Barakembe Beach, Papua New Guinea	POBSP, Enderbury Island, Phoenix Islands, Pacific Ocean	BBL	17-00
<i>Fregata ariel</i> (438-15,387)									
*Great Blue Heron	40-734305	21 Jun 47	J-U	11 Sep 70	(00)	island in Lake Huron off Oliphant, Ontario	H. H. Krug, Stokes Bay, Howdenvale, Ontario	BBL	23-03
<i>Ardea herodias</i> (1175-18,913)									
**Green Heron	685-93001	02 Jun 71	L-U	15 May 79	(01)	Puerto Madera, Chiapas, Mexico	J. J. Hellack, 0.8 km N Tishomingo, Oklahoma	BBL	7-11
<i>Butorides striatus</i> (65-7794)									
*Little Blue Heron	576-98716	16 Jun 57	L-U				J. Terborgh, Hollis Marsh Island, Virginia	BBL	

TABLE 2. Continued.

Common name Scientific name	Band number	Banding date	Age-Sex		Bander, banding locale	Data source	Age (yr-mo)
			Recovery type)	Recovery locale			
<i>Florida caerulea</i> (462-42,652)	42 May 71	(00) J. S. Marshall, Cherry Island, Cambridge, Maryland				BBL	13-11
**Cattle Egret	676-01597	1 Jul 62	L-U		C. S. Robbins, 1.6 km off South Point, Worcester County, Maryland		
<i>Bubulcus ibis</i> (362-35,811)	9 Jun 77	(31) near West Grove, Chester County, Pennsylvania				BBL	17-00
#Reddish Egret	B 611848	12 Jun 31	N-U		A. Clapp, Farwell Id., ca. 16 km W Port O'Connor, Texas		
<i>Dichromanassa rufescens</i> (62-1964)	10 Sep 42	(01) near Olivia, Jackson Co., Texas				BB 14-68, 1943, BBL	12-03
#Great Egret	34-603502	29 Jun 47	(L-U)		L. F. VanCamp, W Sister Island, Lucas County, Ohio		
<i>Egretta alba</i> (561-20,753)	27 Apr 70	(01) Oak Harbor, Carroll, Ohio				PC-JK, BBL	22-10
**Snowy Egret	526-29908	15 Jun 52	(L)-U		W. M. Petersen, ca. 8 km SW Brigham City, Utah		
<i>Egretta thula</i> (366-39,594)	20 Sep 63	(00) Bear River NWR, Box Elder, Utah				BBL	11-03
*Louisiana Heron	596-95638	6 Jun 58	L-U		F. R. Scott, 0.8 km W of S tip Wallops Island, Virginia		
<i>Hydranassa tricolor</i> (208-26,231)	12 Feb 76	(01) Cat Island, Bahamas				BBL	17-08

TABLE 2. Continued.

Common name Scientific name (total recoveries— total banded)	Band number Recovery date	Banding date (Recovery type)	Age-Sex		Bander, banding locale	Data source	Age (yr-mo)
			Recovery locale	Recovery locale			
#Black-crowned Night Heron	496-40807	6 Jun 52	N-(F)		L. F. Van Camp, ca. 6.4 km SW Port Clinton, Ohio	PC-JK, BBL	21-01
<i>Nycticorax nycticorax</i> (1432-53,505)	9 Jul 73	(16) W Sister Island, Oak Harbor, Ohio					
**American Bittern	40-644401	28 Apr 40	A-U		W. V. Crich, Toronto, Ontario	BBL	8-04
<i>Botaurus lentiginosus</i> (58-1263)	41 Oct 47	(00) Bolton, Ontario					
*Glossy Ibis	706-78406	22 May 65	N-U		T. A. Beckett III, Drum Island, Charleston, South Carolina	BBL	14-04
<i>Plegadis falcinellus</i> (86-7576)	9 Oct 79	(01) ca. 11.3 km W Varadero, Cuba					
**White-faced Ibis	526-40718	6 Jun 52	L-U		W. M. Petersen, Brigham City, Utah	BBL	14-06
<i>Plegadis chihii</i> (247-11,248)	28 Dec 66	(01) Cumuato, Michoacan, Mexico					
**White Ibis	576-97172	14 Jun 56	L-U		Alabama Department of Conservation, Southfield Lake, 29 km N Stockton, Alabama	BBL	16-04
<i>Eudocimus albus</i> (150-17,461)	3 Oct 72	(16) L. E. Williams, Jr., 9.7 km E Palmdale, Florida					
**Roseate Spoonbill	697-34005	27 May 62	L-U		Mrs. J. D. VanZandt, near Sabine Lake, Texas	BBL	16-04

TABLE 2. Continued.

Common name Scientific name (total recoveries— total banded)	Band number Recovery date	Banding date (Recovery type)	Age-Sex		Bander, banding locale	Data source	Age (yr-mo)
			Recovery locale	Recovery locale			
<i>Ayaia ajaja</i> (13-1076)	1 Mar 70	(00) Coachapa R., Miniatitlan, Veracruz, Mexico				BBL	7-09
**American Flamingo	528-35540	28 Jul 68	L-U		A. Sprunt, IV, Great Inagua, Bahamas		
<i>Phoenicopterus ruber</i> (123-3960)	22 Aug 81	(01) Riviere Salee, Haiti				BBL	13-02
**Mute Swan	509-86506	20 Aug 63	L-F		Rhode Island Fish & Game, Watch Hill, Rhode Island		
<i>Cygnus olor</i> (327-1328)	22 Nov 76	(07) Harkness State Park, Waterford, Connecticut				BBL	13-04
**Whistling Swan	599-04619	18 Aug 61	(ASY)-F		T. W. Barry, Anderson River Delta, Northwest Territories		
<i>Olor columbianus</i> (4163-7898)	15 Aug 75	(99)				BBL	16-02
Trumpeter Swan	509-55146	22 Jul 57	S-M		W. E. Banko, Upper Red Rock Lake, Lima, Montana		
<i>Olor buccinator</i> (281-2147)	25 Apr 80	(00) Snake River, 0.4 km S Island Park Dam, Fremont County, Idaho				BBL	23-10
*Canada Goose	428-02674	09 Jan 44	A-F		Illinois Natural History Survey, Horseshoe Lake, Illinois		
<i>Branita canadensis</i> (273,445-1,159,562)	8 Dec 66	(01) same				BBL	23-06

TABLE 2. Continued.

Common name Scientific name (total recoveries— total banded)	Band number Recovery date	Banding date (Recovery type)	Age-Sex		Bander, banding locale	Data source	Age (yr-mo)
			Recovery locale				
**Atlantic Brant	577-16605	7 Aug 56	A-U		T. W. Barry, Southampton Island, Northwest Territories		
<i>Branta bernicla</i> (2716-17,871)	8 Jan 72	(01) Pea Island, New Rochelle, New York				BBL	16-07
**Black Brant	647-61095	13 Jul 63	(ASY)-F		Alaska Department of Fish & Game, Lower Kushunuk River, Alaska		19-07
<i>Branta nigricans</i> (5867-43,430)	28 Jan 81	(01) Laguna Daiil, Baja California, Mexico				BBL	
**Emperor Goose	517-07305	21 Jul 52	I-F		USFWS, N mouth Yukon River, Alaska		6-03
<i>Phalacrocorax auritus</i>	10 Sep 58	(01) Izembek Bay, Cold Bay, Alaska				BBL	
**Greater White-fronted Goose	508-28578	9 Apr 54	(AHY)- F		Tule Lake NWR, near Tule Lake, California		20-04
<i>Anser albifrons</i> (11,678-57,948)	14 Oct 73	(01) Grays Harbor, Hoquiam, Washington				BBL	
*Blue Goose	34-702507	18 Nov 34	U-U		E. A. McIlhenny, Cheniere au Tigre, Louisiana		19-06
<i>Chen caerulescens</i> (18,285-129,864)	10 Dec 53	(01) 6.4 km E Bassett, Arkansas				BBL	
*Snow Goose	527-24321	1 Aug 52	A-U		G. F. Cooch, Southampton Island, Keewatin, Northwest Territories		

TABLE 2. Continued.

Common name	Band number	Banding date	Age-Sex	Age (yr-mo)
Scientific name	Recovery date	(Recovery type)	Recovery locale	Data source
(total recoveries—total banded)			Banders, banding locale	
<i>Chen caerulescens</i> (48,345-287,067)	1 Jan 78	(01) Port Acres, Texas		BBL
**Ross Goose	587-28258	26 Mar 57	A-M Tule Lake NWR, Tule Lake, California	26-07
<i>Chen rossii</i> (2765-14,661)	17 Jan 76	(01) near San Luis NWR, Los Banos, California		BBL
**Black-bellied Whistling Duck	627-62951	2 Jul 65	A-(F) Laguna Atascosa NWR, 12.9 km S Alamo, Texas	19-07
<i>Dendrocygna autumnalis</i> (97-2222)	25 Aug 72	(33) D. Delnicki, Welder Wildlife Foundation, Sinton, Texas		BBL
**Fulvous Whistling Duck	617-72127	28 Aug 71	L-M Louisiana Department Fish & Game, near Pecan Island, Rockefeller Refuge, Louisiana	8-02
<i>Dendrocygna bicolor</i> (103-2964)	Dec 77	(01) near Creole, Louisiana		BBL
Mallard	497-136(1)9 ⁴	14 Dec 48	A-M Oregon Game Commission, Malheur River, 3.2 km W Ontario, Oregon	6-06
<i>Anas platyrhynchos</i> (522,261-3,455,703)	28 Nov 70	(01) Sauvie Island, Oregon		BBL
**Laysan Teal	615-30625	22 Sep 67	HY-F E. Kridler, Laysan Island, NW HI	23-05

TABLE 2. Continued.

Common name Scientific name	Band number	Banding date		Age-Sex		Bander, banding locale	Data source	Age (yr-mo)
		(Recovery type)	(Recovery locale)	(Recovery type)	(Recovery locale)			
<i>Anas lysanensis</i> (88-1008)	21 Apr 79	(99)	D. Moulton, same				BBL	11-10
**Mexican Duck	897-75508	10 Sep 68	HY-M			New Mexico Department Game & Fish, San Simon Cienega, New Mexico		
<i>Anas diazi</i> (61-671)	9 Dec 73	(01)	1.6 km S Rodeo, New Mexico				BBL	5-06
*Black Duck	527-02394	17 Nov 52	U-M			Pennsylvania Game Commission, Pymatuning Refuge, Pennsylvania		
<i>Anas rubripes</i> (122,587-694,575)	8 Nov 78	(01)	Broadkill Beach, Delaware				BBL	26-05
**Mottled Duck	687-89069	6 Aug 63	A-M			Texas Coastal Waterfowl Survey, Port Acres, Texas		
<i>Anas fulvigula</i> (1454-13,586)	30 Nov 75	(01)	Sea Rim State Park, Texas				BBL	13-05
*Gadwall	496-62087	4 Aug 52	J-M			F. A. Thompson, Pelican Lake, Mortlach, Saskatchewan		
<i>Anas strepera</i> (6964-50,645)	28 Feb 70	(01)	Aticama, Nayarit, Mexico				BBL	17-08
Common Pintail	616-07511	15 Aug 59	A-M			California Department Fish & Game, Los Banos, California		

TABLE 2. Continued.

Common name	Band number	Banding date	Age-Sex	Data source	Age (yr-mo)
Scientific name	Recovery date	(Recovery type)	Recovery locale	Bander, banding locale	
(total recoveries—total banded)					
<i>Anas acuta</i> (125,009-1,061,830)	31 Dec 78	(01) Gustine, California		BBL	20-06
*Green-winged Teal	40-424048	15 Mar 41	A-F	H. S. Davis, Tulsa, Oklahoma	
<i>Anas crecca</i> (21,072-299,890)	hunting season 60	(01) Missouri River near Glasgow, Missouri		BBL	20-03
**Blue-winged Teal	525-16589	28 Jul 55	L-M	Valentine NWR, Lost Lake, Cherry, Nebraska	
<i>Anas discors</i> (45,478-878,016)	11 Nov 72	(01) Point Au Chien WMA, Louisiana		BBL	17-05
**Cinnamon Teal	505-34935	8 Mar 55	(AHY)-M	Salton Sea NWR, Ramar Lake, Imperial Co., California	
<i>Anas cyanoptera</i> (1439-23,681)	6 May 67	(00) 3.2 km NE Grenada, Siskiyou County, California		BBL	12-11
**Eurasian Wigeon	676-23420	14 Jan 66	(AHY)-M	Malheur NWR, 51.5 km SE Burns, Oregon	
<i>Anas penelope</i> (17-91)	9 Jan 74	(01) Sauvie Island, Portland, Oregon		BBL	8-07
*American Wigeon	516-42934	24 Nov 52	U-M	Washington Department of Game, Skagit Game Range, Skagit Delta, Washington	
<i>Anas americana</i> (23,092-180,814)	28 Oct 73	(01) 6.4 km E Kimball, Nebraska		BBL	21-04

TABLE 2. Continued.

Common name Scientific name (total recoveries— total banded)	Band number Recovery date	Banding date (Recovery type)	Age-Sex		Bander, banding locale	Data source	Age (yr-mo)
			I-M	Recovery locale			
#Northern Shoveler	46-600578	08 Oct 52	I-M		Nevada Department Fish and Game, Stillwater WMA, Fallon, Nevada	WBB 45-46, 1971; BBL	16-07
<i>Spatula clypeata</i> (4058-41,728)	Jan 69	(01) Los Banos, California					
**Wood Duck	565-37293	10 Nov 59	A-M		Tennessee Game & Fish Commission, Old Hickory Lake, near Lebanon, Tennessee	BBL	17-07
<i>Aix sponsa</i> (61,311-555,733)	1 Jan 76	(01) Ark Bayou, Tunica, Mississippi					
**Redhead	567- 4817(0)	(24-26) Mar 56 ⁵	AHY-U		Maryland Department Game & Fish, Kent Island, Maryland	BBL	21-05
<i>Aythya americana</i> (45,298-191,977)	07 Nov 76	(01) Freeland, Michigan					
*Ring-necked Duck	A 530867	18 Dec 31	A-M		O. L. Austin, Jr., near Cordessville, South Carolina	BBL	16-11
<i>Aythya collaris</i> (15,367-102,826)	29 May 47	(14) Indianapolis, Indiana					
*Canvasback	577-72388	18 Mar 57	(AHY)- M		New York Conservation Department, Canandaigua, New York	BBL	16-11

TABLE 2. Continued.

Common name Scientific name (total recoveries— total banded)	Band number Recovery date	Banding date (Recovery type)	Age-Sex		Bander, banding locale	Data source	Age (yr-mo)
			Recovery locale	Recovery locale			
<i>Aythya valisineria</i> (17,941-117,177)	24 Mar 75	(89)	Seneca Lake, 11.3 km S Geneva, New York			BBL	18-09
*Greater Scaup	536-97195	30 Jul 53	L-M		B. Kessel, 48.3 km W Fairbanks, Alaska		
<i>Aythya marila</i> (5309-43,098)	03 Oct 71	(01)	Great South Bay, Long Island, New York			BBL	18-04
*Lesser Scaup	556-90347	10 Mar 56	(AHY)- M		D. E. Russ, Quaker River, Chester Neck, Maryland		
<i>Aythya affinis</i> (24,713-283,379)	03 Oct 73	(01)	Peshuigo River, Peshuigo, Wisconsin			BBL	18-04
**Common Goldeneye	41-659053	21 Jul 42	(J-U)		Ducks Unlimited, Kazan Lake, Saskatchewan		
<i>Bucephala clangula</i> (1362-9871)	56 hunting season	(01)	Sled Lake, Saskatchewan			BBL	14-03
**Barrow's Goldeneye	716-07722	23 Jul 65	A-M		USFWS, Okting Lake, Alaska		
<i>Bucephala islandica</i> (2326-14,979)	7 Oct 79	(00)	Healy Lakes, near Fairbanks, Alaska			BBL	15-04
**Bufflehead	515-66991	5 Feb 58	I-M		New York Conservation Department, Dunkirk, New York		
<i>Bucephala albeola</i> (1608-15,326)	27 Dec 69	(01)	Ocean City, New Jersey			BBL	12-06

TABLE 2. Continued.

Common name	Band number	Banding date	Age-Sex	Data source	Age (yr-mo)	
Scientific name	Recovery date	(Recovery type)	Recovery locale	Bander, banding locale		
(total recoveries—total banded)						
**Oldsquaw	575-57665	18 Aug 64	A-M	USFWS, Takslesluk Lake, 64.4 km NW Bethel, Alaska	BBL	15-04
<i>Clangula hyemalis</i> (55-2422)	8 Jun 75	(01)	Srednekolymsk, Yakutiya, USSR			
**Steller's Eider	517-08762	5 Sep 61	A-M	USFWS, Izembek Bay, Alaska	BBL	15-04
<i>Polyictica stelleri</i> (118-5732)	Sep 72	(01)	Iul'tyn, Chutkotka, USSR			12-03
*Common Eider	767-28050	1 Mar 67	A-F	Monomoy NWR, Morris Island, Massachusetts	BBL	14-10
<i>Somateria mollissima</i> (1194-8197)	10 Apr 81	(01)	Les Escoumains Bay, Quebec			
**King Eider	40-807823	29 Jun 40	A-F	6.4 km S Gambell, Alaska	BBL	18-11
<i>Somateria spectabilis</i> (5-50)	22 May 58	(01)	3.2 km N Barrow, Alaska			
**White-winged Scoter	577-26801	2 Aug 61	L-F	C. E. Graham, Meadow Lake, Saskatchewan	BBL	11-08
<i>Melanitta deglandi</i> (77-2442)	Feb 73	(00)	Tomales Bay, California			
**Ruddy Duck	496-94461	25 Jul 51	A-M	I. Mct. Cowan, Westwick Lake, Cariboo, British Columbia	BB 49:186, 1978, BBL	11-08

TABLE 2. Continued.

Common name	Band number	Banding date	Age-Sex	Data source	Age (yr-mo)
Scientific name	Recovery date	(Recovery type)	Recovery locale	Bander, banding locale	
(total recoveries—total banded)					
<i>Oxyura jamaicensis</i> (450-8150)	Jan 64	(00) Klamath River, Klamath Falls, Oregon		BBL	13-07
**Hooded Merganser	555-90867	19 Sep 66	I-F	F. Payne, Louis Lake, Queens County, Nova Scotia	
<i>Lophodytes cucullatus</i> (247-1877)	hunting season 77	(01) Port Joli, Nova Scotia		BBL	11-03
**Common Merganser	38-710615	13 Dec 38	A-F	H. S. Davis, Tulsa, Oklahoma	
<i>Mergus merganser</i> (242-2225)	8 Nov 50	(01) near Hayward, Wisconsin		BBL	13-05
**Red-breasted Merganser	560392	12 Nov 30	A-U	O. L. Austin, Sr., Brewster, Massachusetts	
<i>Mergus serrator</i> (28-488)	15 Nov 34	(01) Hyannis Port Harbor, Hyannis Port, Massachusetts		BBL	5-05
**Turkey Vulture	34-706672	9 Apr 37	A-U	V. H. Coles, Sugar Grove, Ohio	
<i>Cathartes aura</i> (158-2474)	8 Apr 53	(01) 12.9 km NW Zanesville, Ohio		BBL	16-10
**Black Vulture	41-801429	2 Oct 40	U-U	E. A. McIlhenny, Avery Island, Louisiana	
<i>Coragyps atratus</i> (4011-24,303)	Dec 65	(00) near Latcher, Louisiana		BBL	25-06
**White-tailed Kite	39-663912	4 May 44	N-U	R. E. Dixon, San Luis Rey, California	

TABLE 2. Continued.

Common name Scientific name (total recoveries— total banded)	Band number Recovery date	Banding date		Age-Sex Recovery locale	Bander, banding locale	Data source	Age (yr-mo)
		(Recovery type)	(01) near Vista, California				
<i>Elanus leucurus</i> (22-458)	28 May 50		(01) near Vista, California			BBL	5-11
*Northern Goshawk	617-23215	2 Nov 68	HY-F		W. G. S. Mersereau, Blue Mountain, Pennsylvania		
<i>Accipiter gentilis</i> (302-6161)	6 Apr 80		(00) Salisbury, Herkimer County, New York			BBL	12-10
Sharp-shinned Hawk	1123- 72213	13 Oct 72	AHY-F		W. A. Lamb, Point Pelee National Park, Ontario		
<i>Accipiter striatus</i> (1257-101,578)	7 Apr 81		(00) Trussville, Alabama			BBL	9-10
*Cooper's Hawk	545-13710	29 Oct 67	HY-F		J. D. Judge, Merlin, Ontario		
<i>Accipiter cooperii</i> (482-10,777)	21 Dec 74		(00) 1.6 km W Beaufort, Mississippi			BBL	7-06
*Red-tailed Hawk	617-01301	24 Feb 58	SY-U		D. D. Berger, 4.8 km N Endeavor, Wisconsin		
<i>Buteo jamaicensis</i> (2775-46,647)	23 Mar 77		(00) 4.8 km E Prairie du Sac, Wisconsin			BBL	19-09
*Red-shouldered Hawk	34-541354	25 Feb 44	AHY- (U)		Patuxent Research Refuge, Laurel, Maryland		
<i>Buteo lineatus</i> (442-611)	27 May 63		(99) C. Robbins			PC-RC/ CSR, BBL	19-11

TABLE 2. Continued.

Common name Scientific name (total recoveries— total banded)	Band number Recovery date	Banding date (Recovery type)	Age-Sex Recovery locale	Bander, banding locale	Data source	Age (yr-mo)
*Broad-winged Hawk	535-04982	28 Apr 62	A-U	D. D. Berger, 3.2 km E Kellmer, Wisconsin	BBL	14-04
<i>Buteo platypterus</i> (115-3659)	Oct 75	(01) San Isidro de Penas Blancas, Quesada City, Costa Rica				
*Swainson's Hawk	627-19633	26 Jul 63	N-U	J. B. Millar, Swift Current, Saskatchewan	BB	15-11
<i>Buteo swainsoni</i> (245-6068)	23 May 79	(00) 3.2 km N Wymark, Saskatchewan			52;238, 1981 BBL	
*Rough-legged Hawk	597-53565	20 Jan 62	AHY-F	J. Oar, Cherry Valley, Winnebago County, Illinois	BBL	17-09
<i>Buteo lagopus</i> (118-1894)	5 Mar 79	(45) Interstate 90 near Rockford, Illinois				
Ferruginous Hawk	A-717534	23 Jun 35	(I-U)	W. Ray Salt, 3.2 km E Rosebud, Alberta	BBL	15-11
<i>Buteo regalis</i> (270-6406)	5 May 51	(01) Carbon, Alberta				
**Harris' Hawk	677-68320	4 Dec 71	AHY-U	K. A. Arnold, near Batesville, Texas	BBL	10-00
<i>Parabuteo unicinctus</i> (39-1883)	Jun 80	(00) N Alexander, near Falcon Dam, Texas				
#Golden Eagle	202902	8 May 27	J-U	W. M. Pierce, Laguna Beach, California	BBL	10-00

TABLE 2. Continued.

Common name Scientific name (total recoveries— total banded)	Band number Recovery date	Banding date (Recovery type)	Age-Sex Recovery locale	Bander, banding locale	Data source	Age (yr-mo)
<i>Aquila chrysaetos</i> (282-3666)	10 Oct 37	(01) San Miguel Mission, Baja California, Mexico			BB 12:154, 1941, BBL	10-05
**Bald Eagle	509-50691	3 Jun 70	L-U	J. B. Holt, 9.7 km E Fairview, Michigan		10-05
<i>Haliaeetus leucoccephalus</i> (499-7571)	17 Nov 80	(01) near Oscoda, Michigan			BBL	10-05
*Northern Harrier	656303	1 Jul 28	(J-U)	L. W. Campbell, Harding, Ohio		
<i>Circus cyaneus</i> (509-8694)	14 Nov 44	(01) near Wallaceburg, Ontario			Auk 63:88, 1946, BBL	16-05
Osprey	44-811850	5 Jul 48	J-U	S. R. Lester, Gardiner's Island, East Hampton, New York		
<i>Pandion haliaetus</i> (1188-15,984)	1 May 70	(89) P. R. Spitzer, same			BBL	21-11
**Prairie Falcon	576-87923	31 Mar 65	AHY-M	J. H. Anderson, Fort Collins, Colorado		
<i>Falco mexicanus</i> (480-8980)	Jul 73	(00) 3.2 km E Windsor, Colorado			BBL	9-01

TABLE 2. Continued.

Common name Scientific name (total recoveries— total banded)	Band number Recovery date	Banding date (Recovery type)	Age-Sex		Bander, banding locale	Data source	Age (yr-mo)
			Recovery locale				
*Peregrine Falcon ⁶	44-716600	30 May 46	N-(U)		B. J. Kane, Delaware Water Gap, Pennsylvania	BBL	12-03
<i>Falco peregrinus</i> (321-5439)	23 Nov 58	(00) Peekskill, New York					
**Merlin	653-82307	8 Oct 61	U-U		F. K. Mears, Island Beach State Park, New Jersey	BB 47:219, 1976, BBL	7-10
<i>Falco columbarius</i> (131-5417)	13 Apr 69	(01) Auburn, Maine					
**American Kestrel	513-90752	12 Jun 54	A-F		B. P. Burti, Syracuse, New York	BBL	11-07
<i>Falco sparverius</i> (1832-65,670)	17 Jan 65	(97) Matydale, New York					
#Plain Chachalaca	565-57741	2 Oct 64	(A-M)		R. J. Fleetwood, Santa Ana NWR, 12.9 km S Alamo, Texas	PC-JK, BB 45:178, 1974	8-10
<i>Oriolus vetula</i>	8 Apr 72	(29) W. P. Marion, same					
**Blue Grouse ⁷	2836	13 May 69	ASY-M		R. A. Lewis, Courtenay, British Columbia		

TABLE 2. Continued.

Common name	Band number	Banding date	Age-Sex	Data source	Age (yr-mo)
Scientific name	Recovery date	(Recovery type)	Recovery locale		
<i>Dendragapus obscurus</i>	11 Apr 78	(01) same		NABB 4:141, 1979	10-11
**Spruce Grouse	627-01409	28 Jul 58	A-F	Washington Department of Game, Winthrop, Washington	
<i>Canachites canadensis</i>	9 Sep 62	(01) near Conconully, Washington		BBL	5-03
#Ruffed Grouse*	A-18	16 Aug 65	HY-U	R. J. Stoll, Vinton County, Ohio	
<i>Bonasa umbellus</i>	4 Jan 73	(01) Vinton County, Ohio		BB 45:270 -271, 1974	7-07
**Lesser Prairie Chicken	A-573718	10 Jul 33	HY-U	V. E. Davidson, Arnett, Oklahoma	
<i>Tympanuchus pallidicinctus</i>	Dec 46	(01) Roger Mills County, Oklahoma		BBL	13-06
**Sharp-tailed Grouse	606-30716	14 May 61	A-M	R. T. Gammell, 8.0 km S Kenmare, North Dakota	
<i>Pediocetes phasianellus</i>	23 Oct 66	(01) same		BBL	6-04
#Common Bobwhite	—	4 Feb 54	ASY-M	H. M. Marden, Boone County, Missouri	
<i>Colinus virginianus</i>	29 Nov 58	(01)		Auk 28:94, 1961	6-05

TABLE 2. Continued.

Common name	Band number	Banding date	Age-Sex	Bander, banding locale	Data source	Age (yr-mo)
Scientific name	Recovery date	(Recovery type)	Recovery locale			
(total recoveries—total banded)						
*California Quail	38-314808	30 Sep 38	I-U	Mrs. N. E. Ayer, Pomona, California	WBB 24:38, 1949	6-11
<i>Lophortyx californica</i>	25 May 46	(99)				
#Gambel's Quail	36-412088	12 Oct 36	A-M	C. Stannard, Phoenix, Arizona	Ring 77:92, 1973, BBL (pl.)	7-05
<i>Lophortyx gambelii</i>	24 Nov 42	(99)				
#Turkey	—	24 Nov 60	HY-U	West Virginia Department of Natural Resources	PC-HF	12-06
<i>Meleagris gallopavo</i>	Dec 72	(00)				
*Sandhill Crane	558-30589	31 Oct 61	I-U	Bitter Lake NWR, Roswell, New Mexico	BBL	18-03
<i>Grus canadensis</i> (470-6470)	14 Sep 79	(01) near Solomon, Alaska				
**Clapper Rail	645-28262	24 May 71	AHY-M	New Jersey Fish & Game, 8.0 km SSE Tuckerton, New Jersey	BBL	7-06
<i>Rallus longirostris</i> (758-11,241)	5 Dec 77	(01) Little Egg Harbor, 6.4 km S Tuckerton, New Jersey			BBL	7-06

TABLE 2. Continued.

Common name	Band number	Banding date	Age-Sex	Banding locale	Data source	Age (yr-mo)
Scientific name	Recovery date	(Recovery type)	Recovery locale	Bander, banding locale		
(total recoveries—total banded)						
*Common Gallinule	A-511120	26 Feb 31	(AHY)-U	E. A. McIlhenny, Avery Island, Louisiana	BBL	10-06
<i>Gallinula chloropus</i> (200-5,163)	31 Dec 40	(99)				
*American Coot	A-585618	19 Jan 34	(AHY)-U	E. A. McIlhenny, Avery Island, Louisiana	BBL	19-06
<i>Fulica americana</i> (7069-137,529)	21 Dec 52	(01)	Lake County, Tennessee			
*American Oystercatcher	575-25603	15 Jun 62	N-U	L. Wilcox, East Moriches, New York		
<i>Haematopus palliatus</i> (39-552)	3 Jun 76	(89)	L. Wilcox, Shinnecock Bay, East Quogue, New York		PC-RC/LW, BBL (pt.)	14-00
**Black Oystercatcher	615-57116	22 Jul 71	L-U	University British Columbia Museum, Cleland Island, Vancouver, British Columbia	BBL	6-02
<i>Haematopus bachmani</i> (3-344)	14 Aug 77	(99)				
**Semipalmated Plover	109-128278	20 Aug 72	AHY-U	R. McNeil, LaVerriere, Magdalen Islands, Quebec		
<i>Charadrius semipalmatus</i> (26-6532)	9 Aug 79	(89)	R. I. G. Morrison, North Point, James Bay, Ontario		BBL	8-02

TABLE 2. Continued.

Common name Scientific name (total recoveries— total banded)	Band number Recovery date	Banding date (Recovery type)	Age-Sex		Bander, banding locale	Data source	Age (yr-mo)
			Recovery locale	Sex			
*Killdeer	572-72566	4 Jul 63	L-U		D. F. Parmalee, Cheyenne Bottoms, Kansas		
<i>Charadrius vociferus</i> (86-12,179)	24 May 74	(89) E. F. Martinez, Cheyenne Bottoms WMA, Kansas				BBL	10-11
#Piping Plover	44-103528	9 Jun 50	A-M		L. Wilcox, Moriches Bay, Long Island, New York		
<i>Charadrius melodus</i> (348-4894)	6 Jun 63	(99)				PC,JK, BBL (pt.)	14-00
**Snowy Plover	112- 152961	28 Jul 71	L-U		R. L. Boyd, Cheyenne Bottoms WMA, Kansas		
<i>Charadrius alexandrinus</i> (35-1522)	29 Jun 78	(33) same				NABB 4:141, 1979, BBL (pt.)	7-00
**Black-bellied Plover	813-16863	10 Oct 69	AHY-U		Humboldt State College, Humboldt Bay, California		
<i>Pluvialis squatarola</i> (10-1199)	17 Feb 81	(00) G. McLaughlin, 0.8 km S Arcata, California				BBL	12-08
**Marbled Godwit	564-44722	10 Oct 69	AHY-U		Humboldt State College, Humboldt Bay, California		
<i>Limosa fedoa</i> (13-917)	15 Jan 77	(00) N Humboldt Bay, California				BBL	8-07

TABLE 2. Continued.

Common name Scientific name (total recoveries— total banded)	Band number Recovery date	Banding date (Recovery type)	Age-Sex		Bander, banding locale	Data source	Age (yr-mo)
			Recovery locale	Recovery locale			
**Whimbrel	514-30601	21 Jun 64	A-F		J. R. Jehl, Jr., Churchill, Manitoba		
<i>Numenius phaeopus</i> (38-301)	26 Jun 74	(33)	Mrs. M. Skeel, Churchill, Manitoba			BB 47:74, 1976, BBL	11-00
#Upland Sandpiper	37-309981	22 May 42	AHY-U		G. Wagner, Jefferson County, Wisconsin	BBL	5-02
<i>Bartramia longicauda</i> (7-1039)	29 Aug 46	(03)	Macon, Mississippi				
#Lesser Yellowlegs ⁹	562-35222	24 Aug 60	U-U		R. P. French, Guaraçara River, Pt. a Pierre, Trinidad		
<i>Tringa flavipes</i> (15-3852)	1 May 65	(00)	Crow Creek, Plankinton, South Dakota			BBL	4-09
**Willet	1063- 73835	5 Jun 69	AHY-M		L. Wilcox, Shinnecock Bay, New York		
<i>Caloptrophorus semipalmatus</i> (26-1701)	27 May 77	(99)				PC-RC/ LW, BBL	8-11
*Spotted Sandpiper	78-190781	15 Jun 68	AHY-M		D. M. Cooper, Great Gull Island, New York		
<i>Actitis macularia</i> (70-11,974)	11 Jun 79	(99)	H. Hays			BBL	12-00

TABLE 2. Continued.

Common name	Band number	Banding date	Age-Sex	Banders, banding locale	Data source	Age (yr-mo)
Scientific name	Recovery date	(Recovery type)	Recovery locale			
**Ruddy Turnstone	1103-00548	5 Aug 67	ASY-U	POBSP, St. George Island, Pribilof Islands, Alaska		
<i>Arenaria interpres</i> (2261-21,300)	16 Sep 79	(12) I.	Tekunea, Tabiteuea Atoll, Kiribati (Gilbert Islands)	BBL		14-03
*American Woodcock	503-67833	19 Dec 51	(U)-F	L. L. Glasgow, Gross Tete, Louisiana		
<i>Philohela minor</i> (4293-72,749)	8 Oct 60	(01)	Manistee River, 19.3 km W Grayling, Michigan	BBL		9-04
*Common Snipe	693-87165	2 Aug 64	I-U	L. M. Tuck, Colinet, Newfoundland		
<i>Capella gallinago</i> (431-14,639)	29 Sep 73	(01) J. F.	Moore's, same		BBL	9-03
**Short-billed Dowitcher	542-09891	24 Aug 72	AHY-U	R. McNeil, LaVerriere, Magdalen Islands, Quebec		
<i>Limnodromus griseus</i> (40-3,902)	29 Jan 79	(28)	Lusignan, Guyana		BBL	7-07
**Long-billed Dowitcher	752-06643	12 Sep 69	AHY-U	E. F. Martinez, Cheyenne Bottoms, Kansas		
<i>Limnodromus scolopaceus</i> (5-1536)	24 Oct 76	(01)	same		BBL	8-04
#Red Knot	502-75260	9 Jul 55	HY-U	D. F. Parmalee, Eureka, Slide Fjoid, Ellesmere Island, Northwest Territories		

TABLE 2. Continued.

Common name	Band number	Banding date		Age-Sex		Bander, banding locale	Data source	Age (yr-mo)
		Recovery date	(Recovery type)	Recovery locale				
<i>Calidris canutus</i> (19-2002)	22 Aug 61	(89) St. Kilda Island, Scotland					BBL	6-02
**Sanderling	75-118337	23 Nov 74	AHY-U		F. A. Pielka, Doran Beach, 2.4 km S Bodega Bay, California			
<i>Calidris alba</i> (21-3940)	4 Oct 78	(99)					BBL	5-04
*Semipalmated Sandpiper	52-37685	18 Aug 57	U-U		R. Brown, Presqu'île Provincial Park, Brighton, Ontario			
<i>Calidris pusilla</i> (1231-14,680)	25 Jul 69	(99) G. L. Holroyd					Ont. BB 6:73, 1970, BBL (pt.)	12-01
**Western Sandpiper	81-38684	15 Aug 72	AHY-U		E. F. Martinez, Cheyenne Bottoms, Kansas		BBL	9-02
<i>Calidris mauri</i> (59-39,631)	29 Aug 80	(99)						
*Least Sandpiper	118-17274	19 Sep 68	AHY-U		E. F. Martinez, Cheyenne Bottoms, Kansas			
<i>Calidris minutilla</i> (240-41,479)	29 Sep 78	(99)					PC-RC/ EFM, BBL	11-03

TABLE 2. Continued.

Common name Scientific name (total recoveries— total banded)	Band number Recovery date	Banding date (Recovery type)	Age-Sex		Bander, banding locale	Data source	Age (yr-mo)
			Recovery locale				
**White-rumped Sandpiper	1091- 28318	20 Aug 72	SY-U		R. McNeil, LaVerriere, Magdalen Islands, Quebec		
<i>Calidris fuscicollis</i> (136-9139)	19 Jun 78	(00) Pangnirtung Beach, Territories			Pangnirtung, Northwest Territories	BBL	7-00
*Dunlin	72-150137	27 Oct 68	HY-(M)		Point Reyes Bird Observatory, Point Reyes, California		
<i>Calidris alpina</i> (66-13,412)	10 Oct 77	(89) R. E. Gill, Jr., Nelson Lagoon, Alaska				NABB 3:90, ¹⁰ 1978, BBL	9-04
**Silt Sandpiper	74-134513	27 Jul 69	AHY-U		E. F. Martinez, Cheyenne Bottoms, Kansas		
<i>Micropalama himantopus</i> (18-4053)	28 Jul 77	(99)				PC-RC/ EFM, BBL	9-01
**Northern Phalarope	76-134825	13 Jun 76	AHY- (F)		G. C. West, Cape Espenberg, Alaska		
<i>Lobipes lobatus</i> (5-2359)	12 Jun 80	(99)				BBL	5-00
**Long-tailed Jaeger	523-50242	15 Jun 55	A-U		D. F. Parmalee, Eureka, Ellesmere Island, Northwest Territories		
<i>Stercorarius longicaudus</i> (6-452)	30 Jul 62	(00) H. Carmichael, same				BBL	8-01

TABLE 2. Continued.

Common name Scientific name (total recoveries— total banded)	Band number Recovery date	Banding date (Recovery type)	Age-Sex		Bander, banding locale	Data source	Age (yr-mo)
			Recovery locale	Recovery locale			
#Glaucous-winged Gull ¹¹	48-732xx4 Jul 71	Jul 49 (52)	J-U Protection Island, Washington	J-U Protection Island, Washington	Z. M. Schultz, San Juan Islands, Washington	WBB 48:4, 1973, BBL (pt).	22-01
<i>Larus glaucescens</i> (18,979-153,650)							
*Great Black-backed Gull	517-38331 26 Sep 75	6 Jul 52 (14)	L-U Lake Ontario, SE Toronto, Ontario	L-U Lake Ontario, SE Toronto, Ontario	L. G. Lambert, Gull Rock Island, Quebec	BBL	23-03
<i>Larus marinus</i> (1426-26,310)							
*Western Gull	38-656742 25 Apr 72	18 Jun 44 (00)	J-U California	J-U California	H. M. Hill, Carmel, California	BBL	27-10
<i>Larus occidentalis</i> (2916-45,806)							
Herring Gull	496-31926 7 Sep 75	19 Jul 49 (03)	A-U Maryland	A-U Maryland	Canadian Wildlife Service, Kent Island, New Brunswick	BBL	27-03
<i>Larus argentatus</i> (34,713-777,861)							
*California Gull	685-95761	18 Jun 67	L-U	L-U	L. M. Moos, Freezeout Lake, 6.4 km NW Fairfield, Montana	BBL	27-03

TABLE 2. Continued.

Common name Scientific name (total recoveries— total banded)	Band number Recovery date	Banding date (Recovery type)	Age-Sex		Bander, banding locale	Data source	Age (yr-mo)
			Recovery locale	Recovery locale			
<i>Larus californicus</i> (2658-107,275) *Ring-billed Gull	29 Oct 80 525-00717	(00) same 24 Jun 56		L-U	W. N. Campbell, Presque Point, Ontario	BBL	13-04
<i>Larus delawarensis</i> (23,531-664,523) **Mew Gull	28 Jul 81 534-42094	(00) W. Pratt, Presquille Park, Ontario 5 May 62		A-U	L. J. Peyton, Spenard, Alaska	BBL	25-01
<i>Larus canus</i> (21-956) *Laughing Gull	12 Aug 79 36-668263	(14) Anchorage, Alaska 18 Jul 39		I-U	E. M. Crowell, Muskeget Island, Massachusetts	NABB 5:129, 1980, BBL	18-02
<i>Larus atricilla</i> (2269-147,092) *Franklin's Gull	16 Jul 54 544-17561	(00) J. C. Andrews, same 15 Jun 63		L-U	L. M. Moos, Freezeout Lake, Montana	PC/J. Hatch, BBL	15-01
<i>Larus pipixcan</i> (250-56,211) **Black-legged Kittiwake	Nov 72 585-88468	(01) same 16 Jul 70		L-U	W. Threlfall, Green Island, S of St. Johns, Newfoundland	BBL	9-05
<i>Rissa tridactyla</i> (29-6545)	11 Jun 77	(26) J. T. Snow, Salmon Cove, Newfoundland				BBL	7-00

TABLE 2. Continued.

Common name Scientific name (total recoveries— total banded)	Band number Recovery date	Banding date (Recovery type)	Age-Sex		Bander, banding locale	Data source	Age (yr-mo)
			Recovery locale				
**Gull-billed Tern	682-02989	8 Jun 69	L-U		T. A. Beckett, III, Cape Roman NWR, South Carolina	BBL	6-04
<i>Gelochelidon nilotica</i> (21-1902)	23 Oct 75	(04) B. Somwar	Berbice, Guyana				
**Forster's Tern	48-338703	5 Jul 48	I-U		W. B. Tyrrell, Galveston Bay, Texas	BBL	10-03
<i>Sterna forsteri</i> (61-7831)	16 Sep 58	(00) N shore Houston Ship Channel	Texas				
#Common Tern	—	99-99-29	A-U		O. L. Austin, Massachusetts ¹²		
<i>Sterna hirundo</i> (56,067-872,790)	99-99-52	(09) Tern Island	Chatham, Massachusetts			BB 27:61, 1956	24 —
#Arctic Tern	35-325864	24 Jul 36	L-U		A. Davis, Green Island, Maine	BB	34-00
<i>Sterna paradisaea</i> (291-16,744)	19 Jun 70	(33) J. Hatch, Petit Manan Island	Maine			BB 45:269, 1974, BBL	
*Roseate Tern	1083- 23167	5 Aug 68	L-U		E. H. Dunn, Gray's Beach, Yarmouth, Massachusetts		
<i>Sterna dougallii</i> (1286-107,485)	25 Jul 80	(89) H. Hayes, Bostwick Point	York		Gardiner's Island, New	BBL	12-01
**Gray-backed Tern	723-65006	20 Jun 63	A-U		POBSP, Pearl and Hermes Reef, NW HI		

TABLE 2. Continued.

Common name	Band number	Banding date	Age-Sex	Data source	Age (yr-mo)
Scientific name	Recovery date	(Recovery type)	Recovery locale		
<i>Sterna lunata</i> (43-6471)	25 Aug 78	(99) C. Harrison		PC-RC/ CH, BBL	16-02
#Sooty Tern	40-350148	11 Jun 40	J-U	G. D. Robinson, Bush Key, Dry Tortugas, Florida	
<i>Sterna fuscata</i> (30,461-1,738,628)	7 Jun 72	(99) W. B. Robertson		PC-JK, BBL (pt.)	32-00
#Least Tern	518574	15 Jul 29	J-U	O. L. Austin, Jr., Poponneset Point, Cotuit, Massachusetts	
<i>Sterna albifrons</i> (181-33,282)	9 Jul 50	(00) Cotuit, Massachusetts		BB 23:72, 1952, BBL	21-01
**Royal Tern	535-25537	26 Jun 57	L-U	A. J. Duvall, South Point, Worcester County, Maryland	
<i>Sterna maxima</i> (4230-163,301)	13 Jun 74	(89) J. S. Weske, Metomkin Island, Virginia		BBL	17-00
**Elegant Tern	573-10056	28 May 60	N-U	F. M. Gallup, Chula Vista, California	
<i>Sterna elegans</i> (5-1017)	19 May 69	(28) same		BBL	8-11
**Sandwich Tern	743-52632	26 Jun 63	L-U	L. Williams, Chandeleur Island, Louisiana	

TABLE 2. Continued.

Common name Scientific name (total recoveries— total banded)	Band number Recovery date	Banding date (Recovery type)	Age-Sex Recovery locale	Bander, banding locale	Data source	Age (yr-mo)
<i>Sterna sandvicensis</i> (177-19,318)	29 Jul 79	(26)	Mobile Bay, Alabama		BBL	16-01
# Caspian Tern	378622	19 Jul 25	J-U	F. C. Lincoln, Little Hat Island, St. James, Michigan		
<i>Hydroprogne caspia</i> (2390-65,491)	9 Aug 51	(16)	North Bass Island, Ohio		BB 23,72, 1952, BBL	26-02
**Black Tern	56-152049	23 Jun 70	ASY-U	L. W. Oring, 11.3 km W Lake George, Minnesota		
<i>Chlidonias niger</i> (11-3887)	24 Nov 76	(00)	Morro Grande, El Salvador		BBL	8-05
**Blue-gray Noddy	642-01486	5 Nov 63	A-U	POBSP, Phoenix Islands, Pacific Ocean		
<i>Procelsterna cerulea</i> (81-3255)	23 Jun 73	(99)	R. B. Clapp		BBL (pt.)	11-00
*Noddy Tern	42-330840	12 Jun 47	J-U	G. C. Munro, Manana Island, Hawaiian Islands		
<i>Anous stolidus</i> (942-44,541)	23 May 72	(99)	W. Y. Brown		BB 46:251, 1975, BBL	24-11
**Black Noddy	632-20745	21 Jun 63	A-U	POBSP, Southeast Island, Pearl and Hermes Reef, NW HI		

TABLE 2. Continued.

Common name Scientific name (total recoveries— total banded)	Band number Recovery date	Banding date (Recovery type)	Age-Sex Recovery locale	Bander, banding locale	Data source	Age (yr-mo)
<i>Anous tenuirostris</i> (184-15,471)	15 Jul 78	(89) R. B. Clapp, HI	Tern Island, French Frigate Shoals, NW		BBL (pt.)	16-01
**Fairy Tern	662-05200	2 Feb 64	A-U	E. Kridler, Sand Island, Midway Atoll, NW HI		
<i>Gygis alba</i> (376-7997)	3 Mar 81	(00) G. Grant, same			BBL	17-09
*Black Skimmer	524-50173	15 Aug 58	L-U	H. W. Kale II, Little Egg Island, Georgia		
<i>Rynchops niger</i> (927-44,429)	28 Jun 78	(16) R. W. Loftin, Mayport, Florida			BBL	20-00
**Razorbill	396- 53245 ¹³	27 Jul 35	A-U	H. F. Lewis, Saguenay County, Quebec		
<i>Alca torda</i> (68-1371)	3 Aug 40	(99)			BBL	6-02
**Common Murre	47-610882	11 Jul 51	A-U	L. M. Tuck, Funk Island, Newfoundland		
<i>Uria ualge</i> (1132-33,499)	15 Nov 76	(01) Fogo Island, Newfoundland			BBL	26-05
**Thick-billed Murre	526-76850	1 Aug 55	L-U	L. M. Tuck, Digges Island, Keewatin, Northwest Territories		
<i>Uria lomvia</i> (351-17,336)	14 Feb 78	(01) E side Chapel Arm, Trinity Bay, Newfoundland			BBL	22-08

TABLE 2. Continued.

Common name	Band number	Banding date	Age-Sex	Data source	Age (yr-mo)
Scientific name (total recoveries— total banded)	Recovery date	(Recovery type)	Recovery locale	Bander, banding locale	
**Black Guillemot	524-78845	17 Jun 60	A-(F)	C. E. Huntington, Kent Island, New Brunswick	
<i>Cephus grylle</i> (106-3472)	5 Jul 71	(99)			BBL 12-01
**Pigeon Guillemot	625-86304	21 May 69	AHY-U	J. A. Wiens, Yaquina Head, Oregon	
<i>Cephus columba</i> (96-2511)	16 Sep 77	(00)	Beachside State Park, Washington		BBL 9-03
**Ancient Murrelet	533-32816	10 Jul 75	AHY-U	Aleutian Islands NWR, Buldir Island, Alaska	
<i>Synthliboramphus antiquus</i> (3-452)	13 Jun 79	(99)	same		BBL 5-00
**Rhinoceros Auklet	775-90114	17 Jul 75	(ASY)-U	D. A. Manuwal, Protection Island, Washington	
<i>Cerorhinca monocerata</i> (7-954)	10 Aug 79	(00)	King's Point, Lopez Island, Washington		BBL 6-02
**Cassin's Auklet	643-19630	28 Jun 65	A-U	R. R. Tenaza, S Farallon Island, California	
<i>Pychoramphus aleuticus</i> (356-13,637)	6 Feb 70	(99)	J. Lewis		BBL 5-08

TABLE 2. Continued.

Common name	Band number	Banding date	Age-Sex	Age
Scientific name	Recovery date	(Recovery type)	Recovery locale	(yr-mo)
(total recoveries—total banded)				
**Atlantic Puffin	705-50352	22 Jun 68	AHY-U	
			D. N. Nettleship, Great Island, Ferryland, Newfoundland	
<i>Fratracula arctica</i> (65-6044)	07 Aug 80	(01)	Chance Bay, Aquaforte, Newfoundland	BBL 13-02

¹ All measurements of distance given in this table were in the English system in the original data. These have been converted to the metric system throughout. We also used several abbreviations to conserve space. These are BB (Bird-Banding), NABB (North American Bird Bander), NWR (National Wildlife Refuge), NW HI (Northwestern Hawaiian Islands), Ont. BB (Ontario Bird-Banding), WBB (Western Bird Bander), WMA (Wildlife Management Area), and USFWS (U.S. Fish and Wildlife Service).

² According to C. S. Robbins this bird must have been 6 years or older and must have hatched in the spring of 1933 or earlier. Thus it must have been at least 39 years 5 months old.

³ Captured as a breeding bird and thus at least four years old (Huntingdon, pers. comm.) Paul Bunyan (54-22224) has outlived Long John Silver (53-155960) (Kennard 1975), last recaptured 23 Jun 77.

⁴ Etching of worm band did not result in adequate identification of digit in parentheses. Number in BBL files picked by random selection and/or process of elimination.

⁵ Etching of worm band did not result in adequate identification of digit in parentheses Number in BBL files picked by random selection and/or process of elimination.

⁶ Bird was found decomposed but recognizable as a hawk 23 Nov 58. We have assumed that it died during the fall.

⁷ Provincial band.

⁸ State band.

⁹ Bird decomposed when found 1 May 65 but recognizable as a shorebird. We have assumed that it died in March.

¹⁰ The source cited gives age when banded and banding and recapture dates at variance with data in the BBL.

¹¹ BB 46: 166, 1975 lists an unbanded gull identified on the basis of physical peculiarities that is estimated to be 25 years 6 months of age, but the information is based to a degree on reminiscence and we have not included it here. Examination of the schedules in the BBL showed that the gull listed here (one of 50 birds) could have been banded either in July or August, contra the listing in WBB.

¹² Band number, day when banded, and locality were not given in the source cited, but the latter was almost certainly Massachusetts.

¹³ This record appears in the BBL files as 396-53245 which is a replacement band. The partially illegible band was traceable to one of two numbers—35-526001 used on 27 Jul 35 (Eastern Island, St. Mary's Islands, Saguenay County, Quebec) or 35-526171 used on 28 Jul 35 (Wapitagan, Saguenay, Quebec), respectively.

ACKNOWLEDGMENTS

Many individuals cooperated in the preparation of this paper by supplying original banding or recovery data. Many contributors of this information are listed in Table 2; we thank these people and all others for their aid. Chandler S. Robbins, Bruce Sorrie, E. F. Martinez, and C. E. Huntington were particularly helpful in supplying data for this part of the supplement. Personnel of the Hawaiian Islands NWR, particularly Craig S. Harrison and Maura Naughton, made a special effort to capture and report banded seabirds.

Personnel of the Bird Banding Laboratory, Office of Migratory Bird Management, especially Nancy S. Mullis and Benedict B. Pagac, and the Marine Bird Project, Denver Wildlife Research Center, especially Deborah Morgan-Jacobs and Martha B. Hays, were immensely helpful in locating and verifying longevity records at the BBL. We also thank George M. Jonkel, Chief, BBL, for his assistance and encouragement.

Richard C. Banks, George M. Jonkel, Chandler S. Robbins, Richard L. Zusi, Christopher Grue, and Anthony Fitcher made valuable comments on the manuscript during various stages of its preparation.

LITERATURE CITED

- GILL, G. 1945. Age records of banded birds. *EBBA News* 8(10):2.
 ———. 1946. Old age record of banded birds—final list. *EBBA News* 9(3):3–4.
 KENNARD, J. H. 1975. Longevity records of North American birds. *Bird-Banding* 46:55–73.
 RYDZEWSKI, W. 1962. Longevity of ringed birds. *Ring* 33:147–152.
 ———. 1963. Longevity records II. *Ring* 34:177–181.
 ———. 1973. Longevity records IV. *Ring* 77:91–96.
 VAN VELZEN, W. T. 1964. Tabulations of bandings reported each banding year 1950 to 1953. *Bird Banding Notes* 5(1):5–18.
 ———. 1965. Summaries of non-game birds banded from 1954 through 1962. *Bird Banding Notes* 5(2):3–20.
- Museum Section, Denver Wildlife Research Center, U.S. Fish and Wildlife Service, National Museum of Natural History, Washington, D.C. 20560; Bird Banding Laboratory, Office of Migratory Bird Management, Patuxent Wildlife Research Center, U.S. Fish and Wildlife Service, Laurel, MD 20708. Received 6 Jan. 1982; accepted 7 Feb. 1982.*