



Western

Regional

News

Western Bird Banding Association

Founded 1925

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<i>Auxiliary Markings</i>	Jon L. Atwood	<i>Annual Report</i>	Dr. Martha H. Balph

Applications for membership in the Western Bird Banding Association should be sent to the Treasurer. All classes of membership receive *North American Bird Bander*, the joint publication of Eastern Bird Banding Association and Western Bird Banding Association. Membership classifications are: Active Member, \$8.00 per year; Associate Member, \$8.00 per year; Sustaining Member, \$16.00 per year; Student Member, \$6.00 per year; Non-Subscribing Member, \$3.00 per year; Life Member, \$200.00. Outside the U.S., add \$2.00 to each membership except Life Member.

From the President

A look backward . . . and forward.

This past year spent as President of WBBA has been most interesting and rewarding. Your Board of Directors is in great part responsible for this. If I had a single term to describe the Board members, it would be "willing workers."

The great geographical distances between us were bridged easily and repeatedly because each member was generous with his time and expertise. Thus, the routine affairs of WBBA were taken care of promptly. More importantly, there was a rapport which made it possible to reach agreement on policy matters. Your Board is to be commended for its good work.

With each issue of NABB you can see and benefit from the cooperative work of the Editors, Eleanor Radke and "Mickie" Mutchler. Now, I must say that it has been a pleasure working with Bob Pantle, President of EBBA, during this year. His openness, frankness, and candor have been appreciated. This chance to have an inter-play of ideas between banding organizations is an added positive side-effect of our joint publishing effort.

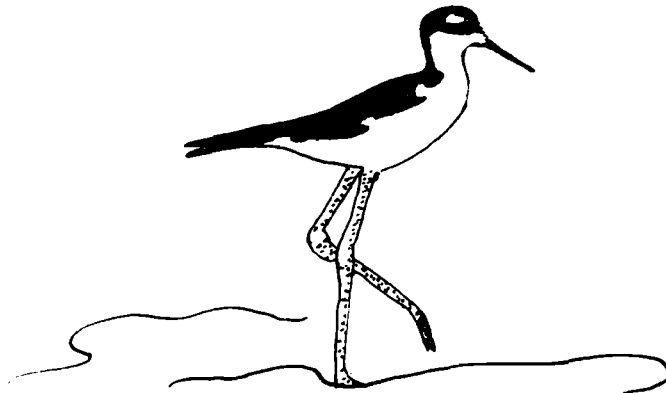
May I take the liberty of expressing some thoughts for the future of WBBA?

Presidents San Miguel and Collins started a trend towards overcoming the problem we have of separation due to geographical distances. Area representatives and Members-at-Large for the Board have provided us with key persons in strategic areas. With the tightening of fuel supplies, it may be that we need to be considering the possibility of area meetings.

Our Editors have been doing a great job. But, it goes without saying that to continue the good work will take a constant flow of articles and materials. So, send in those Mss — short or long. I believe that Dr. Trost of our Board is right . . . sub-permittees should be encouraged to write, too.

Finally, much is being written about the place of the "amateur" in ornithological associations. As one of them, I certainly hope that there will continue to be a place for us in WBBA. I'm not certain that we have a unique contribution to make, but at least we have been given a chance to contribute, and I for one am thankful for this opportunity.

Otis D. Swisher



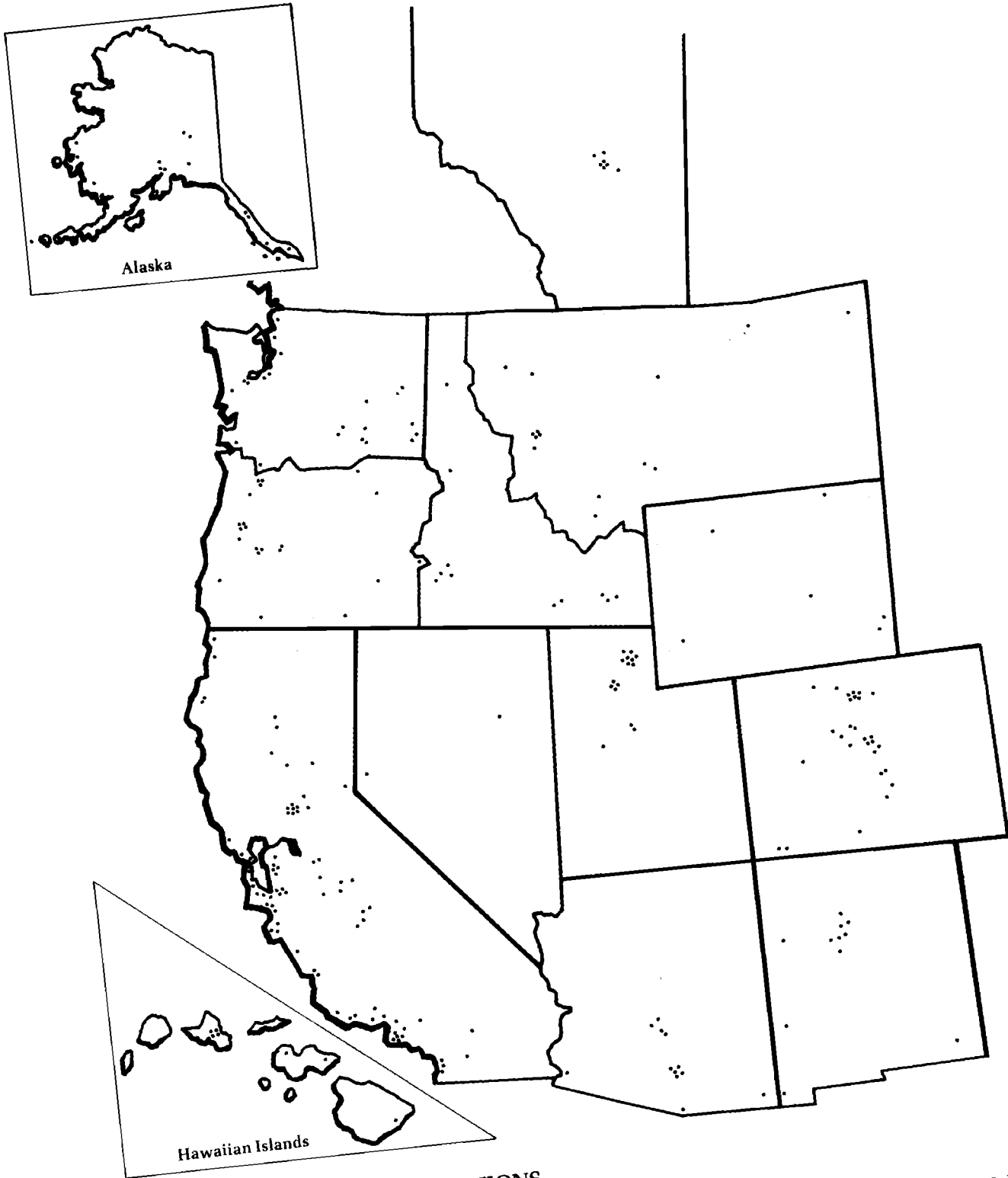
Worksheets for Western Birds

Ageing/sexing worksheets for western birds are mailed with NABB only to Western Bird Banding Association members. They are, however, available to anyone interested. For each worksheet desired, send 25 cents (or \$1.00 for any five worksheets) to Mrs. Donald F. Radke, P.O. Box 446, Cave Creek, AZ 85331.

The following species sheets have been issued: Harris' Hawk, Scaled Quail, California Quail, Gambel's Quail, Mountain Quail, Common Snipe,

Band-tailed Pigeon, key to kingbirds, Eastern Kingbird, Tropical Kingbird, Western Kingbird, Cassin's Kingbird, *Myarchis* flycatchers, Violet-green Swallow, Tree Swallow, Yellow-billed Magpie, Clark's Nutcracker, Verdin, Bushtit, Varied Thrush, gnatcatchers, Orange-crowned Warbler, waterthrushes, *Oporornis* warblers, Tricolored Blackbird, Western Tanager, Summer Tanager, Black-headed Grosbeak, Lazuli Bunting, Cassin's Finch, American Goldfinch, Lesser Goldfinch, towhees, White-crowned Sparrow.

ANNUAL REPORT



LOCATIONS OF REPORTING STATIONS

An analysis of bird-banding reports for 1978
 within the area of the Western
 Bird Banding Association
 Compiled by Martha H. Balph

Species	Alaska	Yukon B.C. Alta.	Wash. Oreg.	Mont. Idaho	Calif.	Nev. Utah	Wyo. Colo.	Ariz. New Mex.	Mex.	Total	Largest Indiv. Total	By Whom
Common Loon			1		2		18			21	18	Seedskadee NWR
Arctic Loon					3					3	3	Intnl. Bird Rescue Res. Ctr.
Red-throated Loon					1					1	1	Oakland Parks/Recr. Dept.
Horned Grebe							7			7	7	Seedskadee NWR
Eared Grebe		2			3		503			508	503	Seedskadee NWR
Western Grebe					3		17			20	16	Seedskadee NWR
Pied-billed Grebe					1		14			15	14	Seedskadee NWR
Northern Fulmar					1					1	1	Intn'l Bird Rescue Res. Ctr.
Fork-tailed Storm-Petrel	405		3							408	405	Off. Biol. Serv.—Coast. Ecol.
Leach's Storm-Petrel			62		48					110	62	Boersma
Ashy Storm-Petrel					61					61	59	PRBO
Black Storm-Petrel					1					1	1	Hunt
White Pelican					100		104			204	100 ea	Klamath Basin NWR; CO Nongame
Brown Pelican					15				469	484	484	Anderson, D.W.
Double-crested Cormorant		640	6	95	29					770	640	Prov. Mus. of Alta.
Brandt's Cormorant					242					242	241	PRBO
Pelagic Cormorant	48									48	48	Off. Biol. Serv.—Coast. Ecol.
Red-faced Cormorant	6									6	6	Off. Biol. Serv.—Coast. Ecol.
Great Blue Heron		66	24	44	51		4		4	193	66	Canad. Wildlife Serv.
(Northern) Green Heron			1		1					2	1 ea	Anderson, J.W.; Wahl
Cattle Egret			1	1			7	1		10	7	Ryder
Great Egret			6							6	6	Martin
Snowy Egret				168	202		123			493	202	Rigney
Black-crowned Night-Heron			192	195	234		63			684	230	Rigney
American Bittern							1			1	1	St. of Colo. Nongame
White-faced Ibis				193		65	4			262	193	Trost
Whistling Swan	1	147								148	147	Mossop
Trumpeter Swan			8	45						53	45	Red Rock Lakes NWR
Canada Goose	2235	71	527	1858	417	1961	2962	553		10,584	1841	Utah Div. Wildlife Res.
(Black) Brant	1576		1							1577	1549	USFWS—Alaska
White-fronted Goose	2148	2			320					2470	2148	USFWS—Alaska
Snow Goose	1				465			146		612	465	Klamath Basin NWR
Ross' Goose					33					33	33	Klamath Basin NWR
Mallard	177	3027	5167	5021	7900		12,489	177		33,958	11,545	Colo. Div. Wildlife
Black Duck		2								2	2	Kuyt
Gadwall		142		30	13		592			777	538	Colo. Div. Wildlife
Pintail	196	1312	11	60	3304		3105			7988	2908	Colo. Div. Wildlife
Mallard X Pintail		1								1	1	Kuyt
(American) Green-w. Teal	29	879		69	8		1829			2814	1729	Colo. Div. Wildlife
(Eurasian) Green-w. Teal	150									150	150	Aleutian Ids. NWR
Blue-winged Teal	1	2674		393			294			3362	2627	Benning
Cinnamon Teal		2			12		30			44	29	Ryder
Blue-w and/or Cinn Teal					508		1000			1508	1000	Colo. Div. Wildlife
American Wigeon	27	287	9	210	202		78			813	283	Benning
Northern Shoveler	6	10		99	4		18			137	99	Mont. Fish/Game Dept.
Wood Duck		16		47	132					195	82	Simmons
Redhead		134			49	238	101			522	238	Utah Div. Wildlife Res.
Ring-necked Duck					13		3			16	12	Calif. Dept. Fish/Game
Canvasback		7		1	383		1			392	330	Calif. Dept. fish/Game
Greater Scaup	21				399					420	393	Calif. Dept. Fish/Game
Lesser Scaup	5	66		93	67		106			337	92	Mont. Fish/Game Dept.
Tufted Duck ¹	1									1	1	Aleutian Ids. NWR
Common Goldeneye		2			22		2			26	21	Oakland Parks/Recr. Dept.
Barrow's Goldeneye							1			1	1	Seedskadee NWR
Bufflehead	1	1					6			8	6	Seedskadee NWR
Oldsquaw							2			2	2	Seedskadee NWR
Steller's Eider	503									503	503	Izembek NWR
White-winged Scoter					1			1		2	1 ea	Hundertmark; IBRRC
Surf Scoter					6					6	5	Intn'l. Bird Rescue Res. Ctr.
Black Scoter ²							2			2	2	Seedskadee NWR

¹First banding in W.B.B.A. area

²First bandings in W.B.B.A. area

Species	Alaska	Yukon B.C. Alta.	Wash. Oreg.	Mont. Idaho	Calif.	Nev. Utah	Wyo. Colo.	Ariz. New Mex.	Mex.	Total	Largest Indiv. Total	By Whom
Ruddy Duck					10		26			36	26	Seedskaadee NWR
Hooded Merganser					1					1	1	Modoc NWR
Red-breasted Merganser	3						115			118	115	Seedskaadee NWR
Turkey Vulture					1					1	1	Simmons
White-tailed Kite					12					12	10	Bloom/Marks
Goshawk		1	30	4		1				36	29	Pac. Northwest Field Sta.
Sharp-shinned Hawk	7	2	16	4	15	1	2	1		48	11	PRBO
Cooper's Hawk		7	117	3	14	5		3		149	67	McNutt
Red-tailed Hawk	2	107	109	60	167	40	6	6		497	166	Bloom/Marks/Jackson
Red-shouldered Hawk					44					44	37	Bloom/Marks
Broad-winged Hawk		3								3	3	Fyfe
Swainson's Hawk		252	48	8	8	4	11	2		333	182	Fyfe
Rough-legged Hawk	15		3		10		3			31	14	Bente
Ferruginous Hawk		195	33	71		26	22			347	195	Fyfe
Harris' Hawk					2			45		47	42	Dawson/Morin
Golden Eagle		26		62	11	84	7	3		193	41	BLM—Boise Dist.
Bald Eagle		3	4	22		1	16			46	15	Harmata
Marsh Hawk		40	10	10	5	1				66	30	Fyfe
Osprey		3	15	42	1	5				98	50	Carrier
Gyr Falcon	8	30		1					32	39	15 ea	Fyfe; Mossop
Prairie Falcon		227	24	175	16	85	9	2		538	227	Fyfe
Peregrine Falcon		101								101	73	Fyfe
Merlin		113	4	15	1					133	113	Fyfe
American Kestrel		31	376	130	137	107	40	4		825	328	Pac. Northwest Field Sta.
Blue Grouse								11		11	11	Ariz. Game/Fish Dept.
Ruffed Grouse		11								11	11	Lewis/Zwickel
White-tailed Ptarmigan							283			283	166	Braun
Sage Grouse				14			764			778	764	Braun
(Masked) Bobwhite								253		253	253	Ariz. Field Sta.—PWRC
California Quail			51		5					56	51	Crawford
Whooping Crane				3						3	3	Idaho Coop. WRU
Sandhill Crane				106						106	106	Idaho Coop. WRU
Sora		2			1		1			4	2	Kuyt
American Coot		118			124		42			284	118	Kuyt
Black Oystercatcher	5		1		2					8	5	Off. Biol. Serv.—Coast. Ecol.
Semipalmated Plover	26	3					1			30	25	Off. Biol. Serv.—Coast. Ecol.
Snowy Plover			37		293		10			340	293	PRBO
Killdeer		18	3	17	7		15			60	16	Canad. Wildlife Serv.
Mountain Plover							9			9	6	Boyd
American Golden Plover	31									31	20	Hanson
Black-bellied Plover	1	5								6	5	Canad. Wildlife Serv.
Ruddy Turnstone	1									1	1	Clarence Rhode NWR
Black Turnstone	85									85	85	Clarence Rhode NWR
Common Snipe	19	6		1	13			5		44	16	Hughes
Long-billed Curlew			65	82						147	82	BLM—Boise Dist.
Spotted Sandpiper		3	1				4			8	2 ea	Canad. Wildl. Serv.; Truan, V.A.
Solitary Sandpiper				1						1	1	Burk
Willet					1		1			2	1 ea	Pitelka; Truan, V.A.
Greater Yellowlegs		4								4	4	Canad. Wildlife Serv.
Lesser Yellowlegs	1	21					24			46	24	Chase
Red Knot	2									2	2	Off. Biol. Serv.—Coast. Ecol.
Rock Sandpiper	27	1								28	27	Off. Biol. Serv.—Coast. Ecol.
Sharp-tailed Sandpiper	29									29	29	Off. Biol. Serv.—Coast. Ecol.
Pectoral Sandpiper	62	26								88	38	Ellison
Baird's Sandpiper	2	1					1			4	1 ea	Canad. W.S.; Chase; Hanson; Troy
Least Sandpiper	13	306		1	6		3			329	306	Canad. Wildlife Serv.
Dunlin	586	775	42		13					1416	775	Canad. Wildlife Serv.
Short-billed Dowitcher		1			2					3	1 ea	Asper; Canad. W.S.; Mewaldt
Long-billed Dowitcher	5	43					2			50	43	Canad. Wildlife Serv.
Stilt Sandpiper	11	2								13	5 ea	Hanson; Troy
Semipalmated Sandpiper	288	36								324	195	Hanson
Western Sandpiper	793	902			49					1744	902	Canad. Wildlife Serv.
Buff-breasted Sandpiper	55									55	55	Hanson
Sanderling					99					99	99	Pitelka
American Avocet					2	161	2			165	161	Smith, K.G.

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Black-necked Stilt					10	89		10		109	89	Smith, K.G.
Red Phalarope	50									50	34	Schamel
Wilson's Phalarope					6		1			7	6	PRBO
Northern Phalarope	139	12			2					153	105	Schamel
Glaucous-winged Gull	5606		1276							6882	5606	Off. Biol. Serv.—Coast. Ecol.
Western Gull			396		2787				28	3211	2074	PRBO
Herring Gull	60		1							61	60	Off. Biol. Serv.—Coast. Ecol.
California Gull			102	600	3		124			829	500	Moos
Ring-billed Gull			88	1399	1					1488	1300	Moos
Mew Gull	21									21	21	Off. Biol. Serv.—Coast. Ecol.
Bonaparte's Gull					1					1	1	Rigney
Black-legged Kittiwake	787									787	787	Off. Biol. Serv.—Coast. Ecol.
Red-legged Kittiwake	14									14	14	Off. Biol. Serv.—Coast. Ecol.
Sabine's Gull	17									17	16	Schamel
Foster's Tern			76		106		4			186	106	Weston
Arctic Tern	120									120	81	Off. Biol. Serv.—Coast. Ecol.
Aleutian Tern	187									187	187	Off. Biol. Serv.—Coast. Ecol.
Least Tern					330		6			336	330	Least Tern Recov. Team
Caspian Tern			709		119					828	593	St. of Wash.—Nongame
Common Murre	597				32					629	597	Off. Biol. Serv.—Coast. Ecol.
Thick-billed Murre	278									278	278	Off. Biol. Serv.—Coast. Ecol.
Black Guillemot	67									67	67	Off. Biol. Serv.—Coast. Ecol.
Pigeon Guillemot	40				19					59	40	Off. Biol. Serv.—Coast. Ecol.
Xantus' Murrelet					128					128	128	Hunt
Cassin's Auklet					1514					1514	1499	PRBO
Parakeet Auklet	4									4	4	Off. Biol. Serv.—Coast. Ecol.
Least Auklet	262									262	262	Off. Biol. Serv.—Coast. Ecol.
Rhinoceros Auklet	13		3		2					18	13	Off. Biol. Serv.—Coast. Ecol.
Horned Puffin	71									71	71	Off. Biol. Serv.—Coast. Ecol.
Tufted Puffin	104				2					106	104	Off. Biol. Serv.—Coast. Ecol.
Band-tailed Pigeon			1		566	102	416	819		1904	819	Ariz. Game/Fish Dept.
White-winged Dove								45	1	46	41	Walters
Mourning Dove			5		295		194	201		695	171	Schaefer
Spotted Dove					25					25	14	McClure
Ground Dove					6			2		8	6	McIntosh
Inca Dove								354		354	212	Truan, J.B.
Yellow-billed Cuckoo				1					1	2	1 ea	Powers; Russell
Roadrunner								4		4	1 ea	Spitler; Spofford; West, S.; Truan, J.
Barn Owl			12	11	105	197	66	8		399	179	Marti
Common Screech Owl			8		16	6		2		32	12	Simmons
Flammulated Owl			12	3	4	4		1		24	8	Mewaldt
Great Horned Owl		80	27	23	31	58	23			242	73	Fyfe
Snowy Owl		1	4							5	2	Channing, C.H.
Hawk Owl		2								2	2	Gehlert
Pygmy Owl			2			5	1	2		10	5	Utah Div. Wildlife Res.
Elf Owl								1		1	1	Spitler
Burrowing Owl		8		10	4		4	1		27	10	BLM—Boise Dist.
Barred Owl ³				1						1	1	Servheen
Spotted Owl					2					2	2	Bloom
Great Grey Owl		6								6	6	Gehlert
Long-eared Owl		12	7	67	23	4	17			130	40	Johnson, D.R.
Short-eared Owl		5	2		1	4	37			49	35	Kahn
Boreal Owl	4									4	4	Peyton
Saw-whet Owl			10	2	4	3	2			21	4	PRBO
Poorwill			13		2					15	7	Pac. Northwest Lab.
Common Nighthawk			9					1		10	5	Pac. Northwest Lab.
Lesser Nighthawk					3					3	3	Grant
Bl.-chinned Hummingbird					1			9		10	9	Baltosser
Costa's Hummingbird					1			4		5	4	Baltosser
Anna's Hummingbird					80					80	67	Baldrige
Brd.-tail. Hummingbird							102	1		103	67	Den
Rufous Hummingbird					8		14			22	13	Waser
Allen's Hummingbird					37					37	37	PRBO
Blue-thr. Hummingbird					1					1	1	Avian Studies—CSUF
Anna's X Blue-thr. Humm. ⁴					2					2	2	Avian Studies—CSUF

³First nesting record for Montana

⁴First bandings in W.B.B.A. area

Species	Alaska	Yukon B.C. Alta.	Wash. Oreg.	Mont. Idaho	Calif.	Nev. Utah	Wyo. Colo.	Ariz. New Mex.	Mex.	Total	Largest Indiv. Total	By Whom
Broad-bill. Hummingbird				6	6			2		2	2	Baltosser
Belted Kingfisher								1		13	6 ea	Trost; Udvardy
Common (Y-s) Flicker	1	2					1			4		Jones
Common (R-s) Flicker			25	17	27	4	10	5		88	14	Mewaldt
Common (Y-s X R-s) Flicker			1			1	1			3	1 ea	Denver WRC; Killpack; Mewaldt
Common (Gilded) Flicker								13		13	11	Walters
Pileated Woodpecker			6							6	6	Pac. NW Forest/Range Expt. Sta.
Gila Woodpecker								83	3	86	55	Corchran
Acorn Woodpecker					41			3		44	33	Davis
Yellow-bellied Sapsucker	1	3	20	5	9	2	3	3		46	11	Mewaldt
Williamson's Sapsucker							4	2		6	4	Crockett
Hairy Woodpecker	2	2	2	1	7		5	4		23	6	PRBO
Downy Woodpecker	1	8		1	10	3	5	5		28	8	Jones
Ladder-backed Woodpecker					1			4		5	3	Corchran
Nuttall's Woodpecker					9					9	3	Avian Studies—CSUF
Bl.-back. Three-toed Wpkr.				4						4	3	De Jong
Western Kingbird				2	2			53		57	53	Blancher
Cassin's Kingbird								13		13	13	Blancher
Great Crested Flycatcher ⁵		3								3	3	Trann
Wied's Crested Flyctchr								2		2	1 ea	McKnight; Truan, J.B.
Ash-throated Flycatcher					14		2	3	4	23	7	Avian Studies—CSUF
Black Phoebe			1		297			2		300	282	Univ. Calif.—Santa Barbara
Say's Phoebe					1		4	15		20	10	McCallum
Yellow-bellied Flycatcher		2								2	2	Jones
Willow Flycatcher			12		3					15	11	King, J.R.
Alder Flycatcher	5	5		9						19	9	Burk
Least Flycatcher		62	2		2					66	62	Jones
Hammond's Flycatcher			9	14	11	1	5	2		42	13	Burk
Dusky Flycatcher			52	9	11	4	2	5		83	52	Mewaldt
Gray Flycatcher			9		1	8	1	5		24	9	Mewaldt
Western Flycatcher			23	1	230	7	17	15		293	207	PRBO
Empidonax (sp?)							2			2	2	Crockett
Western Wood-Pewee		2	16	6	56		1	5		86	40	PRBO
Olive-sided Flycatcher					12					12	12	PRBO
Horned Lark			2				110			112	65	Truan, V.A.
Violet-green Swallow	15	54	23	10	11		24	4	1	50	24	Cohen
Tree Swallow	255			425	14		781			1312	780	Cohen
Bank Swallow		1		1	1					3	1 ea	Hickman
Rough-winged Swallow		10	32	60	82		31			217	50	Jones; PRBO; Powers
Barn Swallow	2									3		Klamath Basin NWR
Cliff Swallow	1		1	2	175		260	16		455	189	Truan, V.A.
Purple Martin			238	3	3		1			238	125	Contreras
Gray Jay	4		3	3			1			11	2 ea	Burk; Peyton; Porter; Swisher
Blue Jay		9					33			42	27	Cringan
Steller's Jay	14		38	1	87		22	2		164	45	Cheeseman
Scrub Jay			17	3	119	18	11	12		180	18	Killpack
Mexican Jay								110		110	97	Brown
Black-billed Magpie			10	518	27	143	3			701	510	Trost
Yellow-billed Magpie					1					1	1	Mewaldt
Common Raven	20		5	35	41	5				106	44	Bloom/Marks
Common Crow		7	2	1			1			11	5	Trann
Northwestern Crow	10									10	10	Hughes
Piñon Jay				30				17		47	30	Trost
Clark's Nutcracker			1		1					2	1 ea	Kebbe; Stager
Black-capped Chickadee	29	86	25	53		32	47			272	47	Jones
Mountain Chickadee			22	70	46	86	42	29		295	89	Evans
Boreal Chickadee	8	3								11	4 ea	Peyton; Porter
Chestnut-back. Chickadee	7		6	3	148					164	119	PRBO
Plain Titmouse				1	55		1	10		67	9	Cheeseman
Bridled Titmouse								6		6	3 ea	McKnight; Spofford
Verdin								25	5	30	11	Russell
Bushtit			1		112			6		119	65	PRBO
White-breasted Nuthatch		1	3		8			7		25	4	Snyder
Red-breasted Nuthatch		3	18		7			1		29	13	Mewaldt
Pygmy Nuthatch					1			12		31	18	McCallum

⁵Second banding and nesting record for W.B.B.A. area

Species	Alaska	Yukon B.C. Alta.	Wash. Oreg.	Mont. Idaho	Calif.	Nev. Utah	Wyo. Colo.	Ariz. New Mex.	Mex.	Total	Largest Indiv. Total	By Whom
Brown Creeper			1		20		1	1		23	17	PRBO
Wrentit					112					112	91	PRBO
Dipper				2	7	80	4			93	57	Everett
House Wren		5	34	212	51	36	11			349	207	Moos
Winter Wren			44		12					56	40	Shiflett
Bewick's Wren			6		119			21		146	73	PRBO
Cactus Wren					6			41		47	17	Corchran
Long-billed Marsh Wren							1	1		2	1 ea	Solberg; Truan, J.B.
Cañon Wren								1		1	1	McCallum
Rock Wren					1		1	2		4	1 ea	Corchran; Esposito; PRBO; Scholes
Mockingbird					57			12		69	14	Stoner
Gray Catbird		7					8			15	8	Williams, C.
Brown Thrasher		9			2					11	9	Jones
Bendire's Thrasher								2		2	2	Burk
Curve-billed Thrasher								112		112	39	Corchran
California Thrasher					17					17	7	Cheeseman
Crissal Thrasher								5		5	2 ea	Truan, J.B.; Walters
Sage Thrasher			10					2		12	9	Wiens
American Robin	18	50	168	90	217	81	38	21		683	180	Mewaldt
Varied Thrush	7		5	2	75					89	33	PRBO
Hermit Thrush	4	1	11	4	215	2	4	20		261	119	PRBO
Swainson's Thrush		26	8	27	145	3	9			218	92	PRBO
Western Bluebird			52		9		16	10		87	23	Thompson-Cowley
Mountain Bluebird		100	87	189			8	14		398	187	Moos
Wheatear ⁶	2									2	2	Off. Biol. Serv.—Coast. Ecol.
Townsend's Solitaire			4	3	7		1			15	5	Verner
Blue-gray Gnatcatcher					7		3	1		11	5	PRBO
Golden-crowned Kinglet				4	86			1		91	86	PRBO
Ruby-crowned Kinglet	3	1	16	6	276	2		42		346	193	PRBO
Yellow Wagtail	2									2	2	Clarence Rhode NWR
Water Pipit					10					10	10	Mewaldt
Bohemian Waxwing				34			1			35	34	Jeppson
Cedar Waxwing		13	2	8	150		1			174	68	Stoner
Phainopepla					2			1		3	1 ea	Hansen; San Miguel; Walters
Northern Shrike	2		7	1	5					15	6	Smith, E.R.
Loggerhead Shrike			3	7	27		2	5		44	9	Bloom/Hogg
Starling			393	6	28	14	111	7		559	387	Anim. Damage Control—Wash.
Hutton's Vireo			3		28					31	18	PRBO
Bell's Vireo								10		10	6	Walters
Solitary Vireo		1	3	6	6	4		6		26	6 ea	Burk; PRBO
Red-eyed Vireo		33	1	4	3		1			42	33	Jones
Philadelphia Vireo		2								2	2	Jones
Warbling Vireo			55	13	88	6	4	7		173	70	PRBO
Black-and-white Warbler		15			1			1		17	15	Jones
Tennessee Warbler		1457			16	1	1			1475	1475	Jones
Orange-crowned Warbler	7	86	38	2	209	6	21	23		392	121	PRBO
Nashville Warbler		1	8		46		1	5		61	14	Bleitz
Virginia's Warbler						1	23	7		31	18	Williams, C.
Lucy's Warbler								3		3	3	Corchran
Northern Parula					2			3		2	2	PRBO
Yellow Warbler	4	108	33	6	81	2	19	5	2	260	107	Jones
Nashville X Yellow Warb. ⁷		1								1	1	Jones
Magnolia Warbler		5			3		1			9	5	Jones
Cape May Warbler		10			1					11	10	Jones
Y-rump.(Myrtle) Warbler	9	40	1		94	3		1		148	58	PRBO
Y-rump (Audubon's) Warb.	1		34	246	279	56	30	64		710	297	Burk
Bl.-throated Gray Warbler					16		1	2		19	9	PRBO
Townsend's Warbler	3		2	2	53	1	2	2		65	49	PRBO
Bl.-throated Green Warbler					1					1	1	PRBO
Hermit Warbler			1		14					15	6	PRBO
Grace's Warbler					1			1		1	1	McCallum
Chestnut-sided Warbler					2					1	1	PRBO
Bay-breasted Warbler		4								6	4	Jones
Blackpoll Warbler		17			7					24	17	Jones
Prairie Warbler					1					1	1	PRBO

⁶First bandings in W.B.B.A. area

⁷First banding in W.B.B.A. area

Species	Alaska	Yukon B.C. Alta.	Wash. Oreg.	Mont. Idaho	Calif.	Nev. Utah	Wyo. Colo.	Ariz. New Mex.	Mex.	Total	Largest Indiv. Total	By Whom
Palm Warbler		1			17					18	17	PRBO
Ovenbird		54	2		2		1			59	54	Jones
Northern Waterthrush		22		16	1		1			40	22	Jones
Connecticut Warbler		4								4	4	Jones
Mourning Warbler		6			1					7	6	Jones
MacGillivray's Warbler			24	36	38		12	7		117	31	Burk
Common Yellowthroat			2	3	16	1	4	4	2	32	13	PRBO
Yellow-breasted Chat			3	1	2		12	8		26	10	Williams, C.
Hooded Warbler					1					1	1	PRBO
Wilson's Warbler		24	29	6	328	3	70	14		474	267	PRBO
Canada Warbler		1			1					2	1 ea	Jones; PRBO
American Redstart		61		19	3		3			86	61	Jones
Painted Redstart								2		2	2	Gallucci
House Sparrow			3	8	784		3	118		916	515	McClure
Western Meadowlark			1		1		4			6	3	Truan, V.A.
Yellow-headed Blackbird	1	6	263	1			17			287	263	Orians
Red-winged Blackbird		11	1438	618	132	2	604	3		2809	1428	Orians
Hooded Oriole					58			8		66	38	Doutt
N.(Baltimore) Oriole		28			2					30	28	Jones
N. (Bullock's) Oriole			21	7	124	1	4	5		162	54	Davis
Brewer's Blackbird		6	38	24	188	5	12	9		282	54	McClure
Common Grackle							166			166	129	Denver Wildlife Res. Ctr.
Brown-headed Cowbird		8	32	15	298		45	7	2	407	146	U.C.—Santa Barbara
Bronzed Cowbird								3		3	2	Truan, J.B.
Western Tanager		7	65	8	58	8	27	4		177	60	Mewaldt
Summer Tanager					1					1	1	PRBO
Common Cardinal					2			85	1	88	47	Corchran
Pyrrhuloxia								31		31	18	Corchran
Rose-breasted Grosbeak		11	1		6					18	11	Jones
Black-headed Grosbeak			13	5	51	53	14	11		147	29	Killpack
Indigo Bunting					2		2			4	2 ea	PRBO; Williams, C.
Lazuli Bunting			21	104	15	342	26	8		516	255	Stokes
Evening Grosbeak		17	40	218			314			589	168	Winkler
Purple Finch		34	15	3	166		1			219	120	PRBO
Cassin's Finch	2		287	25	15	67	226			622	189	Mewaldt
House Finch		13	206	576	1796	145	651	623	6	4016	676	McClure
Pine Grosbeak		2								2	2	Jones
Gray-crowned Rosy Finch	17		75		10		2			104	75	Herlugson
Brown-capped Rosy Finch							4			4	4	Hendricks
Hoary Redpoll	26	1								27	17	Peyton
Common Redpoll	730	8		39			2			779	706	Williams, R.B.
Redpoll (sp?)	16									16	15	Peyton
Pine Siskin	5		85	50	2641	196	1248	337		4562	2014	Feltes
American Goldfinch		15	4	23	139	3	6			190	44	PRBO
Lesser Goldfinch			2		81		16	59		158	40	Mewaldt
Lawrence's Goldfinch					12					12	9	Davis
Red Crossbill			18	4						22	16	Payne
White-winged Crossbill	1									1	1	Williams, R.B.
Green-tailed Towhee			37		3	3	80	39		162	72	Mery
Ruf.-s. (Spotted) Towhee		9	81	1	175	38	24	28		356	48	PRBO
Brown Towhee					154		2	78		234	28	Mewaldt
Abert's Towhee								33		33	18	Truan, J.B.
Lark Bunting								37		37	21	Burk
Savannah Sparrow	592	1	5	2	176		1			777	475	Clarence Rhode NWR
Grasshopper Sparrow								1		1	1	Harrison
Baird's Sparrow		1								1	1	Jones
Vesper Sparrow		7	5		3		26	23		64	24	Mery
Lark Sparrow		6		3	4		27	4		44	12	Truan, V.A.
Rufous-crowned Sparrow					14			7		21	8	PRBO
Five-striped Sparrow								18		18	18	Groschupf
Cassin's Sparrow								2		2	1 ea	McCallum; Russell
Black-throated Sparrow					4			46		50	32	Corchran
Sage Sparrow			24							24	24	Wiens
Dark-eyed (W-wing) Junco							3			3	1 ea	Truan, V.; Winkler; Winternitz
Dark-eyed (SI-c) Junco	238	26	3	21	3	8	23	2		324	232	Peyton

Species	Alaska	Yukon B.C. Alta.	Wash. Oreg.	Mont. Idaho	Calif.	Nev. Utah	Wyo. Colo.	Ariz. New Mex.	Mex.	Total	Largest Indiv. Total	By Whom
Dark-eyed (Oregon) Junco	155		609	371	589	273	448	177		2622	246	Killpack
Dark-eyed (subsp?) Junco	148	68		44	1		1			262	148	Foster
Gray-headed Junco				5			380	73		458	301	Mery
D-e (Oregon) X G-h Junco						1				1	1	Killpack
Yellow-eyed (Mex.) Junco								39		39	35	McCallum
Tree Sparrow	25				4		138			167	73	Valley Ctr. Ecol.
Chipping Sparrow		766	137	53	15		148	116		1235	766	Jones
Clay-colored Sparrow		13			3		2	2		20	13	Jones
Brewer's Sparrow		1	31		3		8	13		56	27	Wiens
Black-chinned Sparrow					1			1		2	1 ea	Scholes; Starr Ranch Aud. Sanc.
Harris' Sparrow				4			6			10	3	Valley Ctr. Ecol.
(Gambel's) Wt-cr Sparrow	58		71	5	2555	7	140	1073		3909	706	Mewaldt
(Mtn.) Wt-cr Sparrow			18	3	4		18	1		44	18	Mewaldt
(Puget Sound) Wt-cr Sp.			15		347					362	196	Mewaldt
(Nuttall's) Wt-cr Sp.					303					303	175	Tainter
Wt-cr (subsp?) Sparrow	37	30	35		1001		76	46		1225	447	U.C.—Santa Barbara
Golden-crowned Sparrow	43		46		913			2		1004	332	Mewaldt
White-throated Sparrow		49	2		2		3	3		59	49	Jones
Fox Sparrow	7	3	21		165	2				198	68	PRBO
Lincoln's Sparrow	14	2	40	2	91	3	19	85		256	56	Corchran
Song Sparrow	3	23	72	54	308	1	13	18		492	154	PRBO
McCown's Longspur							1			1	1	Ryder
Lapland Longspur	800						2			802	347	Clarence Rhode NWR
Snow Bunting	180						5			185	148	Ballard
McKay's Bunting	7									7	7	Izembek NWR
GRAND TOTAL	21,597	16,641	15,366	16,113	40,741	5,031	32,781	6,951	561	155,782		

Hawaiian birds

SPECIES	Total	Lgst Indiv Total	By whom
Black-footed Albatross	102	102	Hawaiian Ids. NWR
Laysan Albatross	3963	3963	Hawaiian Ids. NWR
Wedge-tailed Shearwater	300	300	Hawaiian Ids. NWR
Manx (Newell's) Shearwater	881	881	Hawaii Div. Fish/Game
Dark-rumped (Hawaiian) Petrel	5	3	Haleakala Field Station
Red-footed Booby	13	13	Hawaiian Ids. NWR
Hawaiian Goose	2	1 ea	Haleakala NP & Hawaii Div. F/G
Hawaiian Hawk'	2	2	Ralph
American (Hawaiian) Coot	3	3	Hawaii Div. Fish/Game
Black-necked (Hawaiian) Stilt	23	23	Hawaii Div. Fish/Game
Spotted Dove	2	1 ea	Bussen & van Riper
Barred Dove	1	1	van Riper
Hawaiian Crow	2	2	Hawaii Div. Fish/Game
Melodious Laughing-Thrush	3	3	van Riper
Red-billed Leiothrix	237	224	Ralph
Red-vented Bulbul'	1	1	Bussen
Hawaiian Thrush	197	171	Ralph
Elepaio	134	93	Ralph
Japanese White-eye	720	570	van Riper
Apapane	783	582	Ralph

SPECIES	Total	Lgst Indiv Total	By whom
Iiwi	360	315	Ralph
Amakihi	338	281	van Riper
Hawaiian Creeper	15	15	Ralph
Akepa	32	32	Ralph
Akiapolaau	11	11	Ralph
Palila	2	2	van Riper
House Sparrow	45	41	van Riper
Ricebird	91	85	van Riper
Common Cardinal	42	32	van Riper
Red-crested Cardinal	1	1	Bussen
House Finch	130	88	Bussen
Grand Total	8,441		

'New in 1978

Footnote to the 1978 W.B.B.A. Annual Report

Five banding summaries were received too late to be included in the 1978 Annual Report. Two banders reported inactivity, whereas three banded a total of 4,077 birds of 32 species.

Some highlights were 24 Black Oystercatchers, 41

Northwestern Crows, 828 Long-billed Marsh Wrens, 155 Rufous-sided (Spotted) Towhees, and 219 Song Sparrows (banded in B.C. by the B.C. Provincial Museum, Victoria).

M.H.B.

Summary report of individual banders

435 responding banders

(48 sub-permittees)

124 banders reporting no birds banded

	Bander	Address	Species	No.
A	Alaska Dept. Fish/Game	c/o Daniel Timm, 333 Raspberry Rd., Anchorage, AK 99502	10	1633
	Alcorn, Dr. Gordon D.	Biol. Dept., Univ. of Puget Sound, Tacoma, WA 98416	1	16
	Aleutian Islands NWR	c/o J.L. Martin, P.O. Box 5251, Adak, AK 98791	7	375
	Anderson, Dr. Daniel W.	Div. Wildl./Fish., Univ. of Calif., Davis, CA 95616	5	561
	Anderson, John W.	6230 Coyle Ave., Carmichael, CA 95608	2	2
	Animal Damage Control—Wash.	c/o T. Hoffman, 506 W. Valley Mall Blvd., Union Gap, WA 98903	1	387
	Arizona Field Station, P.W.R.C.	c/o D. Ellis, 301 Congress, Rm. B-3, Tucson, AZ 85701	1	253
	Arizona Game/Fish Dept.	c/o R. Jantzen, Game Mgt. Div., 2222 W. Greenway Rd., Phoenix, AZ 85023	2	830
	Armitage, Dr. James H.	1850 Folsom St., Apt. 405, Boulder, CO 80302	3	11
	Asper, Edward D.	7007 Sea World Dr., Orlando, FL 32809	2	2
	Atwood, Jonathan L.	2218 San Anseline, Apt. 6, Long Beach, CA 90815	1	2
	Avian Studies—C.S.U.F.	Dept. Biol., Calif. St. Univ., Fresno, CA 93740	35	551
	Ervin, Dr. Stephen			
	Harmon, Dr. Wallace M.			
	Staebler, Dr. Arthur E.			
	B	Baldrige, Frank A.	P.O. Box 701, Three Rivers, CA 93271	5
Ballard, Warren B., Jr.		P.O. Box 47, Glennallen, AK 99588	2	384
Balph, Dr. Martha H.		Dept. Wildl. Sci., UMC 52, Utah St. Univ., Logan, UT 84322	7	281
Baltosser, William H.		Dept. Biol., Box 3-AF, New Mex. St. Univ., Las Cruces, NM 88003	4	16
Barrentine, Carl D.		Dept. Biol., Treasure Valley Commun. Coll., Ontario, OR 97914	1	65
Benedict, Dr. Richard D.		2575 Roosevelt Blvd., Eugene, OR 97402	1	6
Benning, Douglas S.		U.S.F.W.S., 1978 S. Garrison, Rm. 102, Denver, CO 80227	12	6572
Benton Lake NWR		c/o Robert L. Pearson, P.O. Box 450, Black Eagle, MT 59414	2	2
Bishop, Marcella M.		Shoreline Rt., Polson, MT 59860	1	17
Bleitz, Donald L.		5334 Hollywood Blvd., Hollywood, CA 90027	16	85
Bloom, Peter H.		13611 Hewes Ave., Santa Ana, CA 92705	27	627
(Hanks, Steve)				
(Hogg, Norm)				
Jackson, Richard)				
(Marks, Mike)				
Boersma, Dr. P. Dee		223 Engineer Annex, FM-12, Univ. of Wash., Seattle, WA 98195	2	65
Bosque del Apache NWR		c/o R.W. Rigby, P.O. Box 1246, Socorro, NM 87801	1	146
Bowdoin NWR		c/o G.A. Sipe (Mgr.), P.O. Box J, Malta, MT 59538	1	90
Boyd, Dr. Roger L.		905 King St., Box 379, Baldwin City, KS 66006	1	6
Braun, Dr. Clait E.		Wildl. Res. Ctr., P.O. Box 2287, Ft. Collins, CO 80522	2	930
Briggs, Kenneth T.		Ctr. Coast. Marine Stud., Univ. of Calif., Santa Cruz, CA 95064	22	90
Brockner, Sylvia		5965 S. Herzman Dr., Evergreen, CO 80439	9	166
Brown, Dr. Jerram L.	Dept. Biol. Sci., St. Univ. of New York, Albany, NY 12222	1	97	
B.L.M.—Boise District	c/o M.N. Kochert, 230 Collins Rd., Boise, ID 83702	12	390	
Burk, Kathryn B.	2738 W. Casas Dr., Tucson, AZ 85704	66	944	
C	Calif. Dept. Fish/Game	c/o F.M. Kozlik, 1416 9th St., Sacramento, CA 95814	13	3515
	Calif. Polytechnic St. Univ.	c/o Dr. Eric V. Johnson, Biol. Sci. Dept., San Luis Obispo, CA 93407	3	41
	Calif. State Univ.—Humboldt	c/o Dr. Stanley W. Harris, Div. Nat. Res., Arcata, CA 95521	1	501
	Calif. State Univ.—Northridge	c/o Dr. G.F. Fisler, Dept. Biol., Northridge, CA 91330	4	10
	Camp, Lee B.	2179 N. 700 E., Logan UT 84321	3	56
	Canadian Wildlife Service	P.O. Box 340, Delta, B.C. V4K 3Y3	35	2478
	Carey, Dr. Cynthia	Dept. E.P.O. Biol., Univ. of Colo., Boulder, CO 80309	3	46
	Carrier, W. Dean	3507 Buckskin Rd., Coeur d'Alene, ID 83814	1	50
	Channing, Clyde H.	P.O. Box 206, Clearlake, WA 98235	11	54
	Channing, Dr. Edward C.	1115 Sierra, Turlock, CA 95380	1	41
	Chapel, Michael T.	4886 E. Jensen Ave., Fresno, CA 93725	33	92
	Cheeseman, Douglas T., Jr.	Dept. Biol., De Anza Coll., Cupertino, CA 95014	30	286
	Clarence Rhode NWR	c/o Christian P. Dau, P.O. Box 346, Bethel, AK 99559	15	1074
	Cogswell, Dr. Howard L.	1548 East Ave., Hayward, CA 94541	17	119
	(Abbors, S.E.)		11	28
	Cohen, Dr. Robert R.	Dept. Biol., Box 53, Metro. St. Coll., 1006 11th St., Denver, CO 80204	2	804
	Collier, Dr. Gerald	Dept. Zool., San Diego St. Univ., San Diego, CA 92182	1	9
	Collins, Dr. Charles T.	Dept. Biol., Calif. St. Univ., Long Beach, CA 90840	9	188
	(Least Tern Rec. Team)		1	330
	(Massey, Barbara)		2	17
	(Oda, Keri)		2	207
	(Roelen, David)		1	4
	(Wilson, Douglas)		7	255

	Bander	Address	Species No.	
C (cont.)	Collister, Allegra (Esposito, Tony) (Williams, Craig)	2640 Woodbridge Crt., Apt. 3, Placerville, CA 95667	5	5
	Colorado Div. Wildlife	c/o R. Hopper, P.O. Box 2287, Ft. Collins, CO 80522	48	536
	Colorado Mountain College	c/o Parry A. Larsen, Dept. Nat. Res. Mgt., Glenwood Springs, CO 81601	10	19,722
	Columbia NWR	c/o John T. Taylor (Mgr.), P.O. Drawer F, Othello, WA 99344	2	4
	Corchran, Charles E. (Walters, Philip M.)	P.O. Box 367, Lake Hubert, MN 56459	1	3288
	Crawford, Dr. John A.	Dept. Fish/Wildl., Oregon St. Univ., Corvallis, OR 97331	55	1251
	Crockett, Dr. Allen B.	2131 Bluebell, Boulder, CO 80302	51	863
			1	51
		26	105	
D	Davis, Dr. John (Koenig, W.) (Williams, P.)	Hastings Reserv., Star Rt., Box 80, Carmel Valley, CA 93924	36	481
	Deer Flat NWR	c/o E.C. Barney, P.O. Box 448, Nampa, ID 83651	2	2118
	De Jong, Daniel	Rural Rt., Marion, MT 59925	25	243
	Den, Steven E.	2905 Galway Dr., La Porte, CO 80535	12	189
	Denver Wildl. Res. Ctr.	c/o W.C. Royall, Jr., Bldg. 16, Federal Ctr., Denver, CO 80225	10	1498
	De Sante, Dr. David F.	4990 Shoreline Hwy., Stinson Beach, CA 94970	3	8
	Dixon, Dr. Keith L. (Fite, M. Kathleen) (Linner, Susan C.) (Reese, Kerry P.) (Ritchison, Gary K.)	Dept. Biol., UMC 53, Utah St. Univ., Logan, UT 84322	4	17
			1	23
			1	1
			1	143
			3	21
	Doutt, Dr. Richard L.	1781 Glen Oaks Dr., Santa Barbara, CA 93108	8	60
	Duffield, M.O.	Rt. 2, Box 481-A, Shelton, WA 98584	5	23
E	Edmonds, Sue	12330 9th St., Apt. 21, Poway, CA 92064	1	2
	Elms, Stan W.	P.O. Box 4021, Modesto, CA 95352	9	546
	Elmore, Marjorie, M.	1728 Hudson Dr., San Jose, CA 95124	9	35
	Evans, Raymond N.	Dept. Biol., Feather River Coll., Quincy, CA 95971	5	164
	Everett, Stephen W.	678 Ogden Canyon, Ogden, UT 84401	3	65
F	Feltes, Charles H.	437 Myrtle Ave., Modesto, CA 95350	36	2624
	Ferris, Reed W.	729 Hackberry Pl., Fallbrook, CA 92028	9	93
	Fish Springs NWR	c/o Rolf H. Kraft (Mgr.), Dugway, UT 84022	1	14
	Foster, William L.	P.O. Box 2018, Sitka, AK 99835	5	156
	Freligh, Stephen B.	P.O. Box 1557, Bozeman, MT 59715	5	16
	Fyfe, Richard	Can. Wildl. Serv., 10025 Jasper Ave., Edmonton, Alta. T5J 1S6	20	1058
G	Gallucci, Tony	Chihuahuan Desert Res. Inst., P.O. Box SR-6381, Alpine, TX 79830	1	2
	Gehlert, R.E.	12155 96th St., Edmonton, Alta. T5G 1V9	4	12
	Gerstenberg, Ron H.	Forest./Wildl., Reedley Coll., Reedley, CA 93654	22	349
	Gessaman, Dr. James A.	Dept. Biol., UMC 53, Utah St. Univ., Logan, UT 84322	4	82
	Giesen, Kenneth M.	Wildl. Res. Ctr., P.O. Box 2287, Ft. Collins 80522	1	117
	Grant, Gilbert S.	Dept. Biol., Univ. of Calif., Los Angeles, CA 90024	5	21
	Grays Lake NWR	c/o Edward Loth, P.O. Box 837, Soda Springs, ID 83276	1	20
H	Haleakala Field Station	c/o Dr. Cameron B. Kepler, 248 Kaweo Pl., Kula, Maui, HI 96790	1	3
	Haleakala National Park	c/o Hugo H. Huntzinger, P.O. Box 537, Makawao, Maui, HI 96768	1	1
	Hansen, Robert B.	13665 W. Dovewood Ln., Fresno, CA 93704	21	46
	Hanson, Wayne C.	5707 W. 8th Ave., Kennewick, WA 99336	11	379
	Harmata, Alan R.	3609 Highland Dr., Ft. Collins, CO 80524	4	30
	Harrington, Paul E.	Tongass Natl. Forest, Federal Bldg., Ketchikan, AK 99901	12	41
	Harrison, William I.	P.O. Box 866, Nogales, AZ 85621	8	22
	Hawaii Div. Fish/Game	1151 Punchbowl St., Honolulu, HI 96813	6	911
	Hawaiian Islands NWR	c/o J. Giezantanner, 300 Ala Moana Blvd., Box 50167, Honolulu, HI 96850	5	4379
	Hawthorne, Vernon M.	Univ. of Calif., Sagehen Creek Sta., Box 939, Truckee, CA 95734	1	7
	Hay, Douglas B.	Rt. 3, 65 Leisure Ln., Flagstaff, AZ 86001	7	43
	Hendricks, D. Paul	305 E. Maplewood Ave., Littleton, CO 80121	7	69
	Henson, Paulette J.	728 Thomsen, Dillon, MT 59725	4	15
	Herlugson, Christopher J.	Dept. Zool., Wash. St. Univ., Pullman, WA 99164	3	169
	Herman, Dr. Steven G. (McNutt, John)	2935 70th Ave. S.W., Olympia, WA 98502	17	71
			1	67
	Hubbard, Dr. John P.	2016 Valle Rio, Santa Fe, NM 87501	25	186
	Hughes, Jeffrey H.	P.O. Box 1061, Petersburg, AK 99833	13	108
	Hundertmark, C.A.	223 Morningside N.E., Albuquerque, NM 87108	5	51
Hunt, Dr. George L., Jr.	Dept. Ecol./Evol. Biol., Univ. of Calif., Irvine, CA 92717	8	753	
Hurlbert, Capt. Elgin B.	P.O. Box 123, Pacific Grove, CA 93950	12	58	
Hyde, Dr. Kenneth M.	Pt. Loma Coll., San Diego, CA 92106	3	7	
I	Idaho Coop. W.R.U.	c/o Elwood G. Bizeau, Coll. F.W.R., Univ. of Idaho, Moscow, ID 83843	3	156
	Idaho Dept. Fish/Game	c/o D.C. Norell, 600 S. Walnut, Box 25, Boise, ID 83707	2	813
	Ingram, Dr. Kathryn A.	3133 E. Bloomfield Rd., Phoenix, AZ 85032	6	8
	Internat'l. Bird Rescue Res. Ctr.	c/o D.C. Smith, Aquatic Park, Berkeley, CA 94710	24	93
	Izembek NWR	c/o John Sarvis, Pouch 2, Cold Bay, AK 99571	6	794

	Bander	Address	Species	No.
J	Jeppson, Joseph H.	962 Highland, Pocatello, ID 83201	42	1225
	Johnson, Dr. Donald R.	Dept. Biol. Sci.—Zool., Univ. of Idaho, Moscow, ID 83843	7	136
	Johnson, Virginia P.	4637 Del Mar Ave., San Diego, CA 92107	2	5
	Jones, Edgar T.	6115 141st St., Edmonton, Alta. T6H 4A6	75	3314
K	Kadlec, Dr. John A. (Steele, Benjamin B.)	Dept. Wildl. Sci., UMC 52, Utah St. Univ., Logan, UT 84322	1	65
	Kaminsky, Muriel	1213 Robertson Way, Sacramento, CA 95818	6	34
	Keeler-Wolf, Virginia	P.O. Box 866, Corning, CA 96021	13	136
	Killpack, Merlin L.	1726 24th St., Ogden, UT 84401	31	706
	King, Dr. James R.	Dept. Zool., Wash. St. Univ., Pullman, WA 99164	1	11
	Klamath Basin NWR	c/o F.J. O'Neill, Rt. 1, Box 74, Tulelake, CA 96134	8	6768
	Klasson, Barbara J.	Fern Rd. E., Box 70-K, Whitmore, CA 96096	5	15
Kuyt, Ernest	3810 103-B St., Edmonton, Alta. T6J 2X9	20	2107	
L	Layton, Frank C.	P.O. Box 2851, Casper, WY 82602	18	32
	Leopold, Dr. A. Starker	School Forest./Conserv., Univ. of Calif., Berkeley, CA 94720	3	174
	Lewis, R.A. & Zwickel, Fred C.	Dept. Zool., Univ. of Alberta, Edmonton, Alta. T6G 2E9	1	11
	Lindner, Mary P.	22319 St. Hwy. 140, Hesperus, CO 81326	15	42
	Linsdale, Mary Ann R.	657 Kirkwood Ave., Salinas, CA 93901	6	90
Lund, Dr. Tom A.	P.O. Box 3105, Eugene, OR 97403	1	26	
M	McCallum, D. Archibald	P.O. Box 234, Portal, AZ 85632	47	298
	McClelland, Dr. B. Riley	School Forest., Univ. of Mont., Missoula, MT 59801	4	18
	McClure, Dr. H. Elliott	69 E. Loop Dr., Camarillo, CA 93010	23	1635
	McIntosh, Beverly L.	P.O. Box 5161, Orange, CA 92667	6	11
	McKenzie, Dr. Donald S.	Lewis & Clark Coll., 615 SW Palatine Hill Rd., Portland, OR 97219	2	2
	McKnight, Barbara C.	P.O. Box 246, Glenwood, NM 88039	20	39
	McLean, Dr. Robert G.	Vector-borne Dis. Div., CDC, USPHS, Box 2087, Ft. Collins, CO 80522	6	21
	McMorris, J. Robert	San Francisco Zoo, Skyline Blvd. & Zoo Rd., San Francisco, CA 94132	1	8
	McNary NWR	c/o O.H. Vivion, P.O. Box 308, Burbank, WA 99323	1	1014
	MacDonald, John A.	128 Sharon Ct., Los Gatos, CA 95030	11	52
	Maestrelli, John R.	7824 Lemon St., Fair Oaks, CA 95628	2	14
	Malheur NWR	c/o Joseph P. Mazzone (Mgr.), P.O. Box 113, Burns, OR 97720	1	1
	Marti, Dr. Carl D.	Dept. Zool., Weber St. Coll., Ogden, UT 84408	4	191
	Martin, Donald F.	Rt. 1, P.O. Box 124-A, Cowiche, WA 98923	16	411
	Medicine Lake NWR	c/o J.R. Bellinger, Medicine Lake, MT 59247	2	454
	Merrick, George G., Jr.	3090 N.E. Denser Rd., Bend, OR 97701	2	7
	Mery, Sophia C.	345 S.E. Boston Ave., Bartlesville, OK 74003	22	820
	Mewaldt, Dr. L. Richard	Avian Biol. Lab, San Jose St. Univ., San Jose, CA 95192	103	3116
	Miller, Dr. Don E.	Dept. Zool., Wash. St. Univ., Pullman, WA 99164	2	57
	Minidoka NWR	c/o J.D. Hill (Mgr.), Rt. 4, Rupert, ID 83350	1	388
	Modoc NWR	c/o M.R. Kaschke, P.O. Box 111, Lakeview, OR 97630	14	2024
Montana Fish/Game Dept.	c/o Dale Witt, P.O. Box 488, Fairfield, MT 59601	10	3694	
Monte Vista NWR	c/o M.T. Nail, P.O. Box 511, Monte Vista, CO 81144	6	812	
Moos, Louis M.	712 S. 13th St., Bozeman, MT 59715	17	2865	
Mossop, D.H.	Yukon Wildl. Branch, P.O. Box 2703, Whitehorse, Y.T. Y1A 2C6	6	194	
Murphy, Dr. Joseph R.	Dept. Zool., 167 WIDB, Brigham Young Univ., Provo, UT 84602	1	7	
N	National Bison Range	c/o R.C. Brown (Mgr.), Moiese, MT 59864	3	255
	Nevada Dept. Fish/Game	c/o L. Barngrover, P.O. Box 10678, Reno, NV 89520	2	102
	New Mexico Dept. Game/Fish	c/o James L. Sands, Star Rt., Box 10, Placitas, NM 87043	2	730
O	Oakland Parks/Recr. Dept.	c/o F. Hays, 1520 Lakeside Dr., Oakland, CA 94612	12	156
	Office Biol. Serv.—Coast. Ecol.	c/o Dr. Calvin J. Lensink, 1011 E. Tudor Rd., Anchorage, AK 99503	34	9860
	Orde, Curt J.	U.S. Forest Serv., 2009 9th St., Greeley, CO 80631	8	22
	Oregon Coop. W.R.U.	c/o Dr. E.C. Meslow (Leader), Oregon St. Univ., Corvallis, OR 97331	3	100
	Oregon Dept. Fish/Wildlife (Kebbe, Chester E.)	c/o Chester E. Kebbe, 606 S.W. Mill St., Box 3503, Portland, OR 97208	5	167
	Orians, Dr. Gordon H. (Erckmann, W.J., Jr.)	Dept. Zool., Univ. of Wash., Seattle, WA 98195	18	169
		6	1698	
		4	126	
P	Pacific NW Field Station	c/o Dr. Charles J. Henny, 480 S.W. Airport Rd., Corvallis, OR 97330	16	517
	Pac. NW Forest/Range Expt. Sta.	c/o Dr. Jack W. Thomas, Rt. 2, Box 2315, La Grande, OR 97850	1	6
	Pacific Northwest Lab	c/o Richard E. Fitzner, Ecosystems Dept., Battelle, Richland, WA 99352	18	190
	Paul, Don S.	1214 W. 5050 S., Ogden, UT 84403	5	134
	Payne, Donald E. (Contreras, Alan)	34886 Matthews Rd., Eugene, OR 97405	56	996
	Peyton, Leonard J. (Bente, Peter J.)	Inst. Arctic Biol., Univ. of Alaska, Fairbanks, AK 99701	18	184
	(Clark, Ronald G.)		26	395
	(Troy, Declan)		3	24
	Pitcher, Edward J.		1	6
	Pitelka, Dr. Frank A.	P.O. Box 3049, Sheridan, WY 82801	15	122
	Point Reyes Bird Observatory	Mus. Vert. Zool., Univ. of Calif., Berkeley, CA 94720	1	2
Porter, David K.	c/o D. Clark, 4990 Shoreline Hwy., Stinson Beach, CA 94970	2	100	
	P.O. Box 152, Trapper Creek, AK 99688	139	7709	
		6	32	

	Bander	Address	Species	No.
P (cont.)	Powers, Leon R.	224 W. Dewey, Nampa, ID 83651	23	91
	Provincial Museum of Alberta	12845 102nd Ave., Edmonton, Alta. T5N 0M6	2	642
	Pyle, Dr. Robert L.	741 N. Kalaheo Ave., Kailua, HI 96734	1	2
	(Bussen, Omer)		6	96
R	Radke, Eleanor L.	P.O. Box 446, Cave Creek, AZ 85331	5	9
	(Dawson, James & Morin, Susanna)		8	58
	Ralph, Dr. C. John	Inst. Pac. Ids. Forest., 1151 Punchbowl St., Honolulu, HI 96813	14	1674
	Raveling, Dr. Dennis G.	Div. Wildl./Fish. Biol., Univ. of Calif., Davis, CA 95616	1	27
	Ream, Dr. Catherine H.	4217 Timberlane, Missoula, MT 59801	2	2
	Red Rocks NWR	c/o E.D. Stroops, Monida Star Rt., Box 15, Lima, MT 59739	1	45
	Ridgefield NWR	c/o G.D. Gahimer, P.O. Box 457, Ridgefield, WA 98642	1	11
	Rigney, Michael D.	Biol. Serviceroom, San Jose St. Univ., San Jose, CA 95192	25	664
	Robertson, Dr. R.J.	Dept. Biol., Queen's Univ., Kingston, Ont. K7L 3N6		
	(Blancher, Peter)		2	66
	Robinson, Gary G.W.	P.O. Box 96, Yoder, WY 82244	8	20
	Rogers, Thomas H.	E. 10820 Maxwell, Spokane, WA 99206	1	5
	Ruby Lake NWR	c/o Lawrence Kline, Ruby Valley, NV 89833	1	16
	Russell, Dr. Stephen M.	Dept. Ecol./Evol. Biol., Univ. of Ariz., Tucson, AZ 85721	29	182
	(Groschupf, Kathleen)		2	19
	Ryder, Dr. Ronald A.	Dept. Fish./Wildl. Biol., Colo. St. Univ., Ft. Collins, CO 80523	29	855
	(Bodner, Theodore P.)		9	30
	(Chase, Charles, III)		15	68
	(Cringan, Alexander T.)		15	565
	(Hollowed, Edward J.)		3	69
	(Kahn, Richard H.)		3	48
(Millsap, Brain A.)		1	50	
(Solberg, John W.)		3	8	
S	Sacramento NWR	c/o Lonnie L. Schultz, Rt. 1, Box 311, Willows, CA 95988	1	1856
	San Miguel, Michael R.	7515 Fairway Dr., Yucca Valley, CA 92284	12	172
	Schaefer, Wendel	4 Senate Ct., Pueblo, CO 81005	10	243
	Schaeffer, Philip P.	376 Greenwood Beach Rd., Tiburon, CA 94920	8	63
	Scholes, Dr. Robert T.	P.O. Box 117, Rodeo, NM 88056	18	67
	Schultz, Terry A.	1709 Tea Pl., Davis, CA 95616	1	25
	Seedskadee NWR	c/o H.J. Johnson (Mgr.), Fontanelle Rt., Kemmerer, WY 83101	24	992
	Seryheen, Christopher	School Forest., Univ. of Mont., Missoula, MT 59801	3	5
	(Aller, Steve)		1	2
	(Becker, Dale M.)		8	105
	(English, Walter)		8	13
	(Nelson, Bruce)		3	12
	Shea, David S.	P.O. Box 461, Powers, OR 97466	1	14
	Shepard, Marianne R.	P.O. Box 141, Glen Ellen, CA 95442	10	25
	Shiflett, James T.	P.O. Box 7171, Olympia, WA 98507	5	46
	Shor, Capt. Williston	318 Montford Ave., Mill Valley, CA 94941	1	5
	Shultz, Carol	2008 E. Linden, Caldwell, ID 83605	4	9
	Simmons, Steve B.	2499 5th Ave., Merced, CA 95340	8	118
	Smith, Dr. E. Linwood	9527 E. Stella Rd., Tucson, AZ 85730	6	29
	Smith, Edwin R.	S.R. 677, Box 27-A, Goldendale, WA 98620	6	66
	Smith, Kimberly G.	Dept. Biol., UMC 53, Utah St. Univ., Logan, UT 84322	5	279
	Smith, Walton A.	1051 Valencia Rd., Aptos, CA 95003	1	2
	Snyder, Mildred O.	161 Del Mar Circle, Aurora, CO 80011	42	258
	Spitler, Shirley S.	3975 N. Pontatoc Rd., Tucson, AZ 85718	21	54
	Spofford, Dr. Sally H.	Aguila-Rancho, Portal, AZ 85632	23	573
	Stager, Dr. Kenneth E.	2715 Veteran Ave., Los Angeles, CA 90064	11	61
	Starr Ranch Audubon Sanctuary	c/o David R. Bontrager, Box 111, Dept. Biol., Long Beach, CA 90840	15	47
	State of Colorado—Nongame	c/o Dr. Walter D. Graul, CO Div. Wildl., 6060 Broadway, Denver, CO 80216	5	270
	State of Wash.—Nongame	c/o Fred Hosea, P.O. Box 44, Aberdeen, WA 98520	35	1435
	Steeves, L. Rich	P.O. Box 3058, Univ. Sta., Eugene, OR 97403	6	28
	Stewart, Charles J.	Dept. Biol., 50 Phelan Ave., City Coll. of S.F., San Francisco, CA 94112	6	8
	Stokes, Dr. Allen W.	1722 Saddle Hill Dr., Logan, UT 84321	1	255
	Stoner, Emerson A.	285 E. "L" St., Benecia, CA 94510	38	1064
Swisher, Otis D.	1002 S. Oakdale, Medford, OR 97501	13	77	
T	Tainter, Fern R.	355 Evans Rd., San Luis Obispo, CA 93401	46	664
	Thompson-Cowley, Lloyd	3321 S.W. Willamette Ave., Corvallis, OR 97330	26	78
	Trann, Kenneth B.	R.R. 2, Kingman, Alta. T0B 2M0	17	227
	(Nicolai, Brian)			
	(Svercek, Richard)			
	Travis, James R.	638-B 43rd St., Los Alamos, NM 87544	2	38
	Troetschler, Ruth	184 Lockhart Ln., Los Altos, CA 94022	10	37
	Trost, Dr. Charles H.	Dept. Biol., Idaho St. Univ., Pocatello, ID 83209	16	1537
	Truan, Jolan B., II	3314 W. Glenn Dr., Phoenix, AZ 85021	45	805
	Truan, Van A.	833 Harmony Dr., Pueblo West, CO 81007	40	576
	Turnbull NWR	c/o Don White, Rt. 3, Box 385, Cheney, WA 99004	1	8
	Tyler, William B.	Ctr. Coast. Mar. Stud., Univ. of Calif., Santa Cruz, CA 95064	28	140

	Bander	Address	Species	No.
U	Udvardy, Dr. Miklos D.F.	Dept. Biol. Sci., Calif. St. Univ., Sacramento, CA 95819	38	491
	Umatilla NWR	c/o J.E. Kurtz (Mgr.), P.O. Box 239, Umatilla, OR 97882	1	785
	Univ. of Calif.—Santa Barbara	c/o Dr. Stephen I. Rothstein, Dept. Biol. Sci., Santa Barbara, CA 93106	20	1055
	Univ. of San Francisco	c/o Dr. David A. Mullen, Harney Sci. Ctr., San Francisco, CA 94117	11	128
	U.S.F.W.S.—Alaska	c/o James G. King, P.O. Box 1287, Juneau, AK 99802	9	4188
	Utah Div. Wildlife Resources	c/o Albert F. Regenthal, 1596 W.N. Temple, Salt Lake City, UT 84116	17	2284
V	Valley Center for Ecology	c/o Dr. Oakleigh Thorne, II, S. Fork Star Rt., Cody, WY 82414	23	204
	van Riper, Dr. Charles, III	Coop. Natl. Park Res. Stud. Unit, Box 54, Hawaii Volcanos NP, HI 96718	15	1375
	Verner, Dr. Jared	P.S.W. Forest Res., 1130 "O" St., Fresno, CA 93721	24	85
	Voth, Dr. Elver H.	Dept. Biol., George Fox Coll., Newberg, OR 97132	4	4
W	Wagner, John L.	P.O. Box 445, Walden, CO 80480	4	13
	Wahl, Terence R.	3041 Eldridge, Bellingham, WA 98225	10	1290
	Ward, Michael E.	410 Pecan St., Arroyo Grande, CA 93420	6	26
	Waser, Dr. Nickolas M.	Dept. Biol., Univ. of Utah, Salt Lake City, UT 84112	2	48
	Washington Dept. Game	c/o R. Jeffrey, 1100 E. College Way, Mt. Vernon, WA 98273	3	475
	Webb, Bruce E.	Dept. E.P.O. Biol., Univ. of Colo., Boulder, CO 80309	8	28
	Weinrich, Alva E. (No. 8292)	7425 Troon Way, Sacramento, CA 95822	1	1
	Weinrich, Alva E. (No. 9005)	Rm. 1542, 650 Capitol Mall, Sacramento, CA 95814	2	2
	West, Dr. George C.	Inst. Arctic Biol., Univ. of Alaska, Fairbanks, AK 99701	5	296
	(Ellison, S.)		5	143
	(Hickman, G.)		2	256
	(Schamel, Douglas)		4	194
	West, Steve	P.O. Box 104, Loving, NM 88256	2	4
	Weston, Dr. Henry G., Jr.	Dept. Biol., San Jose St. Univ., San Jose, CA 95192	11	267
	Wiens, Dr. John A.	Dept. Biol., Univ. of New Mex., Albuquerque, NM 87131	6	112
	Wildlife Research Field Sta.	c/o Dr. Paul F. Springer, Humboldt St. Univ., Arcata, CA 95521	1	37
	Wilkinson, Gerald S.	Dept. Biol., Univ. of Calif.—San Diego, La Jolla, CA 92093	1	86
	Williams, Dr. Joseph B.	Dept. Nat. Sci., Pepperdine Univ., Malibu, CA 90265	1	144
	Williams, Dr. Ralph B.	P.O. Box 2354, Juneau, AK 99803	25	1042
	Winkler, Dr. Howard A.	P.O. Box 1549, Durango, CO 81301	17	884
	Winn, Dr. David S.	2745 N. 800 E., Logan, UT 84321	2	15
	Winternitz, Dr. Barbara L.	28 Garden Dr., Colorado Springs, CO 80904	7	67
	Wirtz, Dr. William O., II	Dept. Biol., Pomona Coll., Claremont, CA 91711	21	57
	Wisner, Herbert P.	Biol. Dept., Univ. of Oregon, Eugene, OR 97403	6	40
	Wright, Dr. Philip L.	Dept. Zool., Univ. of Mont., Missoula, MT 59801	14	100
	Wyoming Game/Fish Dept.	c/o George Wrakestraw, P.O. Box 567, Torrington, WY 82240	8	2180
	Y	Yutzy, W. Robert	480 Buckeye Terr., Apt. 4, Redding, CA 96001	5
Z	Zakis, Aivars	Star Rt., Box 652, Klamath, CA 95548	7	56

Totals also include hybrids or intergrades, unidentified species, and subspecies groups or subspecies.

Commentary on the 1978 Annual Report

Alan T. Gilmore

In 1978, a total of 164,224 birds representing 416 species were banded by W.B.B.A. members and cooperatives. This represents an increase of 2% in total individuals banded and a 5% increase in the number of species banded when compared with the ten-year average. Contrasting 1978's totals with those of 1977, total individuals banded increased 10% and the number of species banded decreased 6%. Of the 550 forms mailed to master banders, 79% or 435 responded in 1978. The number of active reports totaled 311, (263 masters and 48 sub-permittees); this was an increase of 40% over the 1977 total of 223. However, those banders reporting less than 100 birds totaled 157 — 50% of the year's total. The banders banded an average of 12.3

species and 624 individuals each, both showing decreases from the ten-year average of 14% and 17%, respectively.

Five new species were banded in the W.B.B.A. region in 1978. These were: Tufted Duck (1) by Aleutian Islands National Wildlife Refuge in Adak, AK; Black Scoter (2) by Seedskadee National Wildlife Refuge in Kemmerer, WY; Wheatear (2) by the Office of Biological Service, Coastal Ecology, in Anchorage, AK; Hawaiian Hawk (2) by Dr. C.J. Ralph in Honolulu, HI; and Red-vented Bulbul (1) by O. Bussen in Kailua, HI. Of the four hybrid forms banded in 1978, two were firsts for the W.B.B.A. area; these were: Anna's X Blue-throated

	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	10-year average
Including all sources											
Number of reports	226	213	195	187	164	189	236	242	223	311	219
Reports of less than 100 birds	87	82	69	77	73	67	116	98	104	157	93
Species banded	406	360	381	366	377	393	412	410	444	416	397
Birds banded	218,974	184,681	185,946	167,358	137,408	139,103	119,547	149,964	149,335	164,224	161,654
Average species/bander	13.6	14.8	14.5	14.9	15.2	18.3	13.6	14.3	12.1	12.3	14.4
Average birds/bander	895	867	830	890	723	658	514	961	564	624	753
Excluding Hawaii-Pacific area											
Birds banded	189,986	184,284	184,794	166,648	137,112	138,923	119,339	149,316	147,739	155,782	157,392
Birds banded by area											
Alaska	1,189	2,443	3,130	1,774	6,216	2,164	4,185	9,451	19,621	21,597	7,177
Yukon, B. C., Alberta	12,256	8,133	11,136	7,718	7,307	4,069	9,086	22,334	17,409	16,641	11,609
Washington, Oregon	29,137	24,319	17,101	18,472	14,963	12,598	10,597	19,156	13,013	15,366	17,472
Idaho, Montana	17,770	15,788	14,920	14,652	10,019	11,403	5,999	13,244	16,235	16,113	13,614
California	76,121	71,690	71,241	62,108	46,428	41,110	43,243	39,363	35,162	40,741	52,721
Nevada, Utah	12,595	13,081	11,145	8,541	6,112	7,392	6,485	4,380	5,579	5,031	8,034
Wyoming, Colorado	30,864	33,295	40,246	40,399	35,973	36,643	32,232	33,630	29,815	32,781	34,588
Arizona, New Mexico*	9,022	15,535*	16,393*	10,672	10,051	11,421	7,614	8,406	8,569	6,951	10,463
Mexico*	32			2,312	43	239	106		737	561	403
Hawaii, Pacific Islands	29,988	397	1,152	710	296	180	208	648	1,596	8,441	4,362

*Combined in 1970, 1971

Table 1. 1978 banding breakdown by category and major species within each category.

Ducks & geese	Predatory birds (Hawks, eagles, falcons & owls)	Shorebirds, gulls & alcids	Passerines	Others
Mallard 33,958 (48%) ¹	American Kestrel 825 (18%)	Glaucous-winged Gull 6,882 (31%)	Pine Siskin 4,562 (10%)	Band-tailed Pigeon 1,904 (10%)
Canada Goose 10,584 (15%)	Prairie Falcon 538 (12%)	Western Gull 3,211 (15%)	House Finch 4,016 (8%)	Sage Grouse 778 (4%)
Pintail 7,988 (11%)	Red-tailed Hawk 497 (11%)	Western Sandpiper 1,744 (8%)	(Gambel's) White-crowned Sparrow 3,909 (8%)	Double-crested Cormorant 770 (4%)
70,194 (43%) ²	4,542 (3%)	22,091 (13%)	47,491 (29%)	19,426 (12%)

¹ Percentages within each category

² Totals and percentages of each category with respect to total banding

Hummingbird — 2 (new); Nashville X Yellow Warbler — 1 (new); Mallard X Pintail — 1; and Dark-eyed (Oregon) X Gray-headed Junco — 1.

In recognition of their outstanding banding achievements, the following banders should be congratulated. Banders and/or cooperatives with the highest number of species were: Point Reyes Bird Observatory, Stinson Beach, CA — 139; Dr. L.R. Mewaldt, Avian Bio. Laboratory, San Jose, CA — 103; Edgar T. Jones, Edmonton, Alta, — 75; and Kathryn B. Burk, Tucson, AZ — 66. Banders and/or cooperatives with the highest number of individual birds banded were: Colorado Division of Wildlife, Fort Collins, CO — 19,722; Office of Biological Services, Coastal Ecology, Anchorage, AK — 9,860; Point Reyes Bird Observatory — 7,709; Klamath Basin National Wildlife Refuge, Tulelake, CA — 6,768; and Douglas S. Benning, Denver, CO — 6,572.

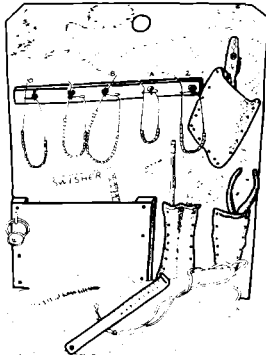
A breakdown of banding accomplished in 1978 by category and major species within each category is shown in Table 1. This table shows that game species comprised nearly one-half (43%) of the

total birds banded in 1978. This indicates the importance of banding studies in game management decisions by both State and Federal agencies.

When looking at 1978's data, one can see a pattern in the 1978 totals as being above those of 1977 yet still below the ten-year average. This pattern exists in three major categories: total birds banded, average species per bander, and the average number of birds banded per bander. Overall, however, 1978 was a good year for the W.B.B.A. region with 11 of the 17 categories listed showing increases over the 1977 totals, with a range of from 2 to 429%. The six categories decreasing in 1978 ranged from 1 to 24%.

I would like to congratulate all the banders constituting the Western Bird Banding Association for their work in 1978. I would also like to express my appreciation to Dr. Martha H. Balph for her tabulation of this past year's data, and Dr. Charles Trost for his support and patience. ☺

Dept. of Biology, Idaho State Univ., Pocatello, ID 83209.



E.B.B.A. and W.B.B.A. present . . .

B.I.R.D. Manual. The Education Committee of EBBA has compiled the best of old workshop manuals with some new ideas for banders: Ethics, Traps, Nets, Suppliers, Ageing/Sexing Techniques, Identification, and many other aids. It has been prepared for use in a loose leaf notebook and the committee will be adding to the information occasionally with inserts in NABB. The B(anders) I(nformation) R(esource) D(ata) Manual is available from: Tom Mutchler, c/o Hartwood Club, Box 212X, RD 1, Monticello, NY 12701. \$2.50 ppd.

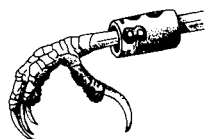
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	Sust	Act	Non Mem	Sust	Act	Non Mem	Sust	Act	Non Mem
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1½	4.15	4.30	4.65				7.45	7.80	8.50
2½							8.50	8.85	9.65
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1¼		8.85	9.25	10.10			11.75	12.30	13.40
1½		6.85	7.15	7.75			8.50	8.90	9.70
1¼x2.6 cm							11.75	12.30	13.40
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1½		9.10	9.50	10.30			12.60	13.15	14.30

Sust—Sustaining member

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