

1989

## Western Regional News

North American Bird Bander

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# *Western Regional News*

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*Western Bird Banding Association*

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Founded 1925

## **1990 ANNUAL MEETING**

The meeting will be hosted by the Beaverhill Bird Observatory in Alberta, CANADA, **August 24 - 26, 1990** August--a delightful time to be in Alberta. Watch for further details in future issues of NABB.

### **MONOGRAPH AND BACK ISSUE SALES**

Barbara A. Carlson was appointed Assistant Treasurer in charge of sales. Please send all orders for monographs and back issues to her at: P.O. Box 55419  
Riverside, CA 92517

### **IT'S DUES TIME**

Please save WBBA money and the Treasurer headaches and insure that you will not miss any issues of North American Bird Bander by paying your dues when you receive the notice. Thank you.

# ANNUAL REPORT

A summary of banding reported from the WBBA area for 1988 with USFWS/CWS bands.

Compiled by Coyote Creek Riparian Station, P.O. Box 1027, Alviso, CA 95002.

Codes in the HIGH BANDERS column refer to the list of individual or institutional banders. Numbers in ( ) are individual totals. Where no number is included, that individual banded the total for that species.

The AK/CANADA column includes birds banded in AB, BC, NWT, and AK.

NAME	AK/ CANADA	AZ/NM/ MX	CA	HI	NV/ID/ MT	OR/WA	WY/CO/ UT	TOTAL	HIGH BANDERS
COMMON LOON	3					1		4	C7(3), E2
PIED-BILLED GREBE							2	2	R13
HORNED GREBE	2							2	C24
EARED GREBE			258					258	J1
BLACK-FOOTED ALBATROSS				346				346	H9
LAYSAN ALBATROSS				1157				1157	H9
DARK-RUMPED PETREL				5				5	H20
BONIN PETREL				14				14	H9
BULWER'S PETREL				6				6	H20(5), H9
WEDGE-TAILED SHEARWATER				565				565	H9(481), H20(84)
NEWELL'S SHEARWATER				1647				1647	H20
SOOTY SHEARWATER	1			1				2	H20, C14
CHRISTMAS SHEARWATER				481				481	H9
FORK-TAILED STORM-PETREL	251					2		253	A6(247), U3(4), B8(2)
LEACH'S STORM-PETREL	3		3			30		36	B8(30), U3(3), P10(3)
ASHY STORM-PETREL			179					179	P10(178), T7
RED-TAILED TROPICBIRD				1327				1327	H9
MASKED BOOBY				213				213	H9
BROWN BOOBY				322				322	H9
RED-FOOTED BOOBY				929				929	H9
AMERICAN WHITE PELICAN					13		301	314	W1(201), R13(100), T4(13)
BROWN PELICAN		61	86					147	A13
DOUBLE-CRESTED CORMORANT					37		6	43	T4(37), R13(6)
BRANDT'S CORMORANT			97					97	P10(96), T1
PELAGIC CORMORANT			1					1	P10
GREAT FRIGATEBIRD				96				96	H9
AMERICAN BITTERN	1	1						2	C14, W15
LEAST BITTERN		8						8	W15
GREAT BLUE HERON	35		8					43	C14(33), H17(6), B19(2)
GREAT EGRET			27					27	H17
SNOWY EGRET			28				63	91	R13(63), H17(28)
CATTLE EGRET		36	297				11	344	H17(297), A13(36), R13(11)
GREEN-BACKED HERON	1							1	C14
BLACK-CROWNED NIGHT-HERON		217					60	277	W19(217), R13(60)
WHITE-FACED IBIS							203	203	R13
FULVOUS WHISTLING-DUCK			5					5	S17
WHISTLING SWAN	89				4			93	I2(48), S22(27), N5(7)
TRUMPETER SWAN	34				47	1	10	92	R6(47), C18(33), W1(10)
GREATER WH-FRONTED GOOSE	1796		346			38		2180	I1(938), N5(657), D7(346)
GREATER SNOW GOOSE	1223							1223	B18
LESSER SNOW GOOSE	1853							1853	C18(1223), L3(630)
ROSS' GOOSE	4							4	C18(2), B18(2)
EMPEROR GOOSE			1					1	K5
BLACK BRANT	66							66	N5(59), P3(4), L3(3)
CANADA GOOSE	3292	230	41		110	74	818	4565	C14(1208), C7(1002), N5(686)
CAKCLING GOOSE			568					568	K5
ALEUTIAN CANADA GOOSE			66					66	S30
HAWAIIAN GOOSE				5				5	H5(3), H20(2)
WOOD DUCK	211		214		1	10	23	459	C14(211), C10(121), S37(42)
AMERICAN GREEN-WNG TEAL	236		62		7	16	63	384	M13(99), B10(69), R13(63)
AMERICAN BLACK DUCK					2			2	M20
MALLARD	9867		9408		1402	7574	2991	31242	C20(6603), C10(3577), S18(3087)
NORTHERN PINTAIL	3605		934		182	146	114	4981	B10(2267), C20(890), C15(372)
BLUE-WINGED TEAL	3230		2		3		9	3244	S19(2319), C20(907), R13(9)
CINNAMON TEAL	2		312			6	1	321	C10(263), M6(38), S17(9)
NORTHERN SHOVELER			8		9	1		18	T4(9), C10(7), C15(1), M15(1)

NAME	AK/ CANADA	AZ/NM/ MX	CA	HI	NV/ID/ MT	OR/WA	WY/CO/ UT	TOTAL	HIGH BANDERS
GADWALL	11		87		4	3	112	217	R13(85), C10(82), W15(27)
AMERICAN WIGEON	36		99		2	21	24	182	C15(94), C20(22), R15(21)
CANVASBACK	11		5		80		1	97	M20(60), C20(7), O2(5)
REDHEAD	75		103		530	3	690	1401	R13(689), M20(413), K5(93)
RING-NECKED DUCK	5				2	5	3	15	M13(4), C17(3), R13(3)
GREATER SCAUP	19							19	C24
LESSER SCAUP	142		29		1	1	22	195	C24(119), K5(22), R13(19)
HARLEQUIN DUCK							18	18	W1(9), W14(9)
OLDSQUAW	2				1			3	C24(2), T4
COMMON GOLDENEYE	12							12	U3
BARROW'S GOLDENEYE	17							17	U3(16), C14
BUFFLEHEAD	11						1	12	C24(10), C20(1), R13(1)
HOODED MERGANSER						1		1	C16
COMMON MERGANSER					6			6	T4
RUDDY DUCK			2		3		1	6	T4(3), C10(1), M6(1), R13(1)
OSPREY	28		7		121	29		185	J8(85), B6(35), H6(26)
BLACK-SHOULDERED KITE			4					4	B19(3), S2
BALD EAGLE	65	3	2		66	4	14	154	S8(48), H13(33), M14(26)
NORTHERN HARRIER	7	1	65		10	1		84	C15(17), C10(16), G10(16)
SHARP-SHINNED HAWK	27	6	134		1184	6	14	1371	H19(1177), G10(97), D9(17)
COOPER'S HAWK	32	21	289		555	3	9	909	H19(553), G10(188), B19(73)
NORTHERN GOSHAWK	25	2	28		22	3	1	81	B19(28), H19(22), P8(10)
HARRIS' HAWK		61	21					82	M18(58), B19(21), C2(2)
RED-SHOULDERED HAWK			163		1			164	B19(149), G10(8), S2(3)
BROAD-WINGED HAWK	2				1			3	P8(2), H19
SWAINSON'S HAWK	453		90		24	21	7	595	S15(273), J2(91), B19(86)
RED-TAILED HAWK	82	4	641		59	25	53	864	B19(408), G10(178), P8(59)
HARLAN'S HAWK	5							5	U3
FERRUGINOUS HAWK	249	53	5		23	39	95	464	S15(166), A4(56), O4(53)
ROUGH-LEGGED HAWK	181		20		10	2	2	215	S6(147), B19(16), M13(15)
GOLDEN EAGLE	12	2	19		37	3	119	192	K1(94), B19(30), P9(15)
CRESTED CARACARA		7						7	G3
AMERICAN KESTREL	39	89	260		157	367	96	1008	B14(237), B19(143), A11(118)
MERLIN	177		4		6	2	5	194	S8(83), S15(51), P8(28)
PEREGRINE FALCON	115		115		6	3	7	246	B19(114), N5(57), H6(29)
GYRFALCON	99							99	N5(57), S6(25), H6(8)
PRAIRIE FALCON	46	1	60		11	17	221	356	W15(210), B19(54), A4(46)
CALIFORNIA QUAIL	5		25			6		36	G1(23), K2(6), J2(5)
BLACK RAIL		10						10	W15
CLAPPER RAIL		22						22	W15
VIRGINIA RAIL		8						8	W15
SORA	2	13	1		2			18	W15(13), E3(2), C14, J2, R17(1)
HAWAIIAN MOORHEN				1				1	H20
AMERICAN COOT	81		18			44	196	339	R13(196), L7(45), C17(43)
HAWAIIAN COOT				37				37	H20
SANDHILL CRANE			26			7		33	M6(26), S10(7)
WHOOPING CRANE	17							17	K8
BLACK-BELLIED PLOVER	1		1					2	B5(1), S4(1)
LESSER GOLDEN-PLOVER	15			31				46	P6(31), J9(31), L3(12)
SNOWY PLOVER			235			166		401	P10(233), S10(166), S7(2)
SEMIPALMATED PLOVER	6							6	P3
PIPING PLOVER	42							42	K8
KILLDEER	9	4	4			2	5	24	P8(6), C2(3), J2(3), R13(3)
BLACK OYSTERCATCHER			15					15	P10(8), F13(7)
BLACK-NECKED STILT					4	5		9	R1(5), T4(4)
AMERICAN AVOCET						1		1	R1
LESSER YELLOWLEGS	1							1	J2
SPOTTED SANDPIPER	2		1			4		7	B14(4), J2(2), H17(1)
UPLAND SANDPIPER							23	23	B17
WHIMBREL	16							16	M10(11), P3(5)
BRISTLE-THIGHED CURLEW	18			4				22	M10(15), H9(4)
LONG-BILLED CURLEW	5							5	C11
BAR-TAILED GODWIT	3							3	P3
RUDDY TURNSTONE	19		1					20	P3(18), J2(1), P10(1)
BLACK TURNSTONE			2			1		3	P10, R1, S4

NAME	AK/ CANADA	AZ/NM/ MX	CA	HI	NV/ID/ MT	OR/WA	WY/CO/ UT	TOTAL	HIGH BANDERS
RED KNOT	2							2	J2
SANDERLING	1		1					2	J2, T7
SEMPALMATED SANDPIPER	157							157	J2(58), L3(54), B5(43)
WESTERN SANDPIPER	23					2		25	C14(23), R1(2)
LEAST SANDPIPER	22					16		38	J2(16), R1(16), C14(6)
BAIRD'S SANDPIPER	1							1	K2
PECTORAL SANDPIPER	42							42	L3(23), B5(10), J2(6)
DUNLIN	42		47			17		106	P10(47), L3(22), H18(17)
STILT SANDPIPER	11							11	L3(10), J2(1)
BUFF-BREASTED SANDPIPER	10							10	L3
SHORT-BILLED DOWITCHER	1							1	J2
LONG-BILLED DOWITCHER	2							2	J2
COMMON SNIFE	8	2	1					11	J2(6), W15(2), C1, C18, J2(1)
WILSONS PHALAROPE	3							3	J2
RED-NECKED PHALAROPE	5							5	L3
RED PHALAROPE	3					1		4	L3(2), B5(1), R1(1)
PARASITIC JAEGER	2							2	J12
BONAPARTE'S GULL			2					2	T7
MEW GULL	14							14	M12
RING-BILLED GULL	1				498	144		643	G2(498), B14(144), C14(1)
CALIFORNIA GULL			1384		1536	2		2922	G2(1527), P10(1349), M5(35)
HERRING GULL	10							10	M12
WESTERN GULL			1643			2		1645	P10(1192), L6(297), P12(150)
GLAUCOUS-WINGED GULL	500					2		502	C14(500), A2(2)
GLAUCOUS GULL	10							10	J12
BLACK-LEGGED KITTIWAKE	149							149	H11(95), M12(44), A6(10)
RED-LEGGED KITTIWAKE	56							56	H11(33), A6(23)
SABINE'S GULL	37							37	P3(33), J12(4)
CASPIAN TERN			93			11		104	S7(92), B14(11), T7(1)
ARCTIC TERN	1							1	J12
GRAY-BACKED TERN				526				526	H9
BROWN NODDY				1221				1221	H9
BLACK NODDY				1433				1433	H9
BLUE-GRAY NODDY				5				5	H9
WHITE TERN				150				150	H9(148), H20(2)
BLACK SKIMMER			105					105	S7(97), H17(8)
COMMON MURRE			76					76	P10(74), T7(2)
THICK-BILLED MURRE	83							83	H11
BLACK GUILLEMOT	268							268	D8
PIGEON GUILLEMOT			147					147	P10
MARBLED MURRELET			1					1	T7
ANCIENT MURRELET	2037							2037	G5
CASSIN'S AUKLET	41		570					611	P10(565), G5(39), L6(5)
LEAST AUKLET	248							248	J4
CRESTED AUKLET	5							5	J4
RHINOCEROS AUKLET	32		150					182	P10(150), U3(32)
TUFTED PUFFIN	22							22	A6
BAND-TAILED PIGEON	4		9					13	T7(5), C14(4), M1(3)
SPOTTED DOVE			40					40	M3
WHITE-WINGED DOVE		365						365	C2(179), W2(162), D5(31)
MOURNING DOVE		2058	367			11	2	2438	W2(1298), C2(570), C1(204)
INCA DOVE		292						292	W2(109), T6(104), C2(32)
COMMON GROUND-DOVE		8	19					27	C19(12), C2(7), M3(4)
YELLOW-BILLED CUCKOO		3	1					4	C2(3), P10(1)
GREATER ROADRUNNER		4						4	C2(2), W2(2)
COMMON BARN-OWL	14		459		1	10	286	770	B19(338), S20(148), M25(131)
FLAMMULATED OWL	1						13	14	R7(12), S32(1), U3(1)
WESTERN SCREECH-OWL		14	30		3	8	2	57	S37(10), F11(10), W2(7)
GREAT HORNED OWL	142	8	76		6	4	31	267	P8(92), B19(43), A4(37)
SNOWY OWL	11							11	P8
NORTHERN HAWK-OWL	15							15	U3(13), C11(1), S6(1)
NORTHERN PYGMY-OWL	4		1		1	1		7	C11(3), B9, B19, K2, W8(1)
ELF OWL		11						11	W2(4), C2(2), R9(2)
BURROWING OWL	130		21		12	1		164	S15(121), B6(11), A4(9)
SPOTTED OWL			257			417		674	B7(272), F9(225), O3(144)
BARRED OWL	1		1			6		8	W12(4), O3(2), A4(1), B19(1)

NAME	AK/ CANADA	AZ/NM/ MX	CA	HI	NV/ID/ MT	OR/WA	WY/CO/ UT	TOTAL	HIGH BANDERS
GREAT GRAY OWL	5				1	3	5	14	S41(5), A4(3), B4(3)
LONG-EARED OWL		20	2			22	1	45	B4(20), C17(18), B14(4)
SHORT-EARED OWL	7		4				3	14	S6(6), S2(3), S32(3)
BOREAL OWL	73							73	S6(69), D9(4)
NORTHERN SAW-WHET OWL	64		2		18	6	2	92	U3(34), R14(18), S6(17)
LESSER NIGHTHAWK		1						1	W2
COMMON NIGHTHAWK					2			2	W4
COMMON POOR-WILL	2	4	1			4		11	F5(4), C2(4), L4(2)
BROAD-BILLED HUMMINGBIRD		161						161	F1(140), C22(13), R12(4)
BERYLLINE HUMMINGBIRD		2						4	R12
VIOLET-CROWNED HUMMINGBIRD		6						6	R12(5), F1(1)
BLUE-THROATED HUMMINGBIRD		19						19	F1(16), R12(2), C22(1)
MAGNIFICENT HUMMINGBIRD		117						117	F1(112), C22(4), R12(1)
LUCIFER HUMMINGBIRD		2						4	R12
BLACK-CHINNED HUMMINGBIRD		1031	26		11			1068	R12(583), F1(396), C22(52)
ANNA'S HUMMINGBIRD		547	108					655	R12(404), F1(107), C1(83)
COSTA'S HUMMINGBIRD		35	4					39	R12(22), C22(10), F1(3)
CALLIOPE HUMMINGBIRD		1	1		189		23	214	B9(156), J11(33), C22(22)
BROAD-TAILED HUMMINGBIRD		42					428	470	C22(324), K14(95), D5(37)
RUFIOUS HUMMINGBIRD		219	17		477	42	216	971	J11(296), R12(198), C22(196)
ALLEN'S HUMMINGBIRD		9	40			1		50	C1(30), P10(10), F1(5)
BELTED KINGFISHER	2	5	3				5	10	B9(5), M16(4), C1(2), C11, M27A, P8, W16
GREEN KINGFISHER		1						1	C2(1)
ACORN WOODPECKER		13	149					162	K12(144), C4(7), M27A(4)
GILA WOODPECKER		87						87	C3(38), W2(25), C2(18)
YELLOW-BELLIED SAPSUCKER	3							3	J2
RED-NAFED SAPSUCKER		4	1		5	8	14	32	A9(12), B9(5), V2(5)
RED-BREASTED SAPSUCKER	1		24			5		30	C19(13), P10(6), M1(2)
WILLIAMSON'S SAPSUCKER			3				1	4	C19(2), C19A(1), N1(1)
LADDER-BACKED WOODPECKER		10	5					15	M27(5), B9(4), W2(3)
NUTTALL'S WOODPECKER			17					17	M27(5), M3(3), S27(2), C19C(2)
DOWNY WOODPECKER	10		22		2	7	13	54	P10(9), C1(8), P8(7)
HAIRY WOODPECKER	4		3				4	11	P8(4), R2(3), P10(2)
STRICKLAND'S WOODPECKER		2						2	F1
YELLOW-SHAFTED FLICKER	4		2					6	P8(3), P10(2), C14(1)
RED-SHAFTED FLICKER	3	7	42		7	29	15	103	C1(16), B14(13), P10(10)
GILDED FLICKER		22						22	W2(9), T1(5), C2(4), C3(4)
OLIVE-SIDED FLYCATCHER			14			2		16	P10(10), M27(2), K2(2)
WESTERN WOOD-PEWEE	26	14	105		2	15	2	164	M27(37), P10(20), C1(15)
ALDER FLYCATCHER	75							75	J2(67), C18(8)
TRAILL'S FLYCATCHER	13	6						19	P8(13), C2(6)
WILLOW FLYCATCHER		3	75			190	4	272	S12(179), C1(37), M6(15)
LEAST FLYCATCHER	512		3					515	J2(491), P8(21), P10(3)
HAMMOND'S FLYCATCHER		2	20		11	1		34	M27(11), B9(9), P10(7)
DUSKY FLYCATCHER	5	1	31		37	9		83	H4(22), M27(19), B9(12)
GRAY FLYCATCHER		7	2		8	13		30	H18(7), B9(6), G2(5)
WESTERN FLYCATCHER		22	832		2	19	18	893	C1(447), P10(293), M27(29)
BLACK PHOEBE		24	141			1		166	C1(97), C2(14), W5(14)
EASTERN PHOEBE	7		2					9	J2(4), P8(2), P10(2)
SAY'S PHOEBE		1	17			13		31	B14(13), S4(7), M22(5)
VERMILION FLYCATCHER		6						6	C2
DUSKY-CAPPED FLYCATCHER		3						3	F1
ASH-THROATED FLYCATCHER		11	48			2		61	M27(14), W5(12), C1(6)
BROWN-CRESTED FLYCATCHER		23						23	W2(20), C2(1), C4(1), B9(1)
SULPHUR-BELLIED FLYCATCHER		5						5	F1
TROPICAL KINGBIRD			1					1	R17
CASSIN'S KINGBIRD		10						10	C2(8), B9(1), W2(1)
WESTERN KINGBIRD	3	2	2		1	46		54	B14(46), J2(3), W2(2)
EASTERN KINGBIRD	16					5		21	J2(16), B14(5)
PURPLE MARTIN	429					4		433	P8(401), K9(28), E2(4)
TREE SWALLOW	2559		215		286	307	1559	4926	C5(1461), P8(1027), S34(939)
VIOLET-GREEN SWALLOW	29		36			105	50	220	C5(49), K7(43), E2(25)
N. ROUGH-WINGED SWALLOW	2	4	7			1		14	P10(4), J2(2), C3(2), G4(2)
BANK SWALLOW	1		516			124		641	G4(516), B14(124), J2(1)
CLIFF SWALLOW		1	655			1	1	658	F12(420), M27(209), P17(14)
CAVE SWALLOW		922						922	W19
BARN SWALLOW	34	1	82		5	34	97	253	M25(92), P10(41), R17(31)

NAME	AK/ CANADA	AZ/NM/ MX	CA	HI	NV/ID/ MT	OR/WA	WY/CO/ UT	TOTAL	HIGH BANDERS
GRAY JAY	29				6	1	101	137	L2(38), R5(32), R2(22)
STELLER'S JAY	20		14		10	15	84	143	R2(38), K4(22), C14(14)
BLUE JAY	33						7	40	P8(19), C11(9), S25(4)
SCRUB JAY		24	85		2	26	25	162	K4(24), M3(23), S36(15)
GRAY-BREASTED JAY		146						146	B2(104), S36(22), C4(17)
PINYON JAY		1			27	3		31	S39(27), M19(3), K13(1)
CLARK'S NUTCRACKER					1	1	35	37	R2(35), B14(1), R16(1)
BLACK-BILLED MAGPIE	42				10		5	57	H6(37), C11(4), K4(2)
YELLOW-BILLED MAGPIE			23					23	K12
AMERICAN CROW	22		99		2		6	129	C9(90), P8(16), B19(7)
NORTHWESTERN CROW	3					1		4	C14(3), K2(1)
CHIHUAHUA RAVEN		8						8	W19
COMMON RAVEN	76		1		5	80	14	176	B14(67), A8(52), R2(14)
BLACK-CAPPED CHICKADEE	540				48	69	117	774	J2(206), P8(192), H8(47)
MOUNTAIN CHICKADEE			64		89	161	348	662	D4(143), R5(96), G8(66)
BOREAL CHICKADEE	19							19	P8(9), P3(8), W10(2)
CHESTNUT-BACKED CHICKADEE	20		123		8	42	21	214	P10(73), C1(22), M16(21)
BRIDLED TITMOUSE		9						9	F1(5), B9(3), M21(1)
PLAIN TITMOUSE		1	46		1	8		56	K12(13), M27A(12), S27(7)
VERDIN		36	15					51	W2(21), B9(8), M27(8)
COMMON BUSHTIT		213	277		13	32		535	S16(191), P10(118), C1(49)
RED-BREASTED NUTHATCH	6		2		11	11	14	44	D4(12), K7(5), R16(5)
WHITE-BREASTED NUTHATCH	6	8	4		7	73	4	102	B14(30), M19(13), E2(7)
PYGMY NUTHATCH			12				5	17	D5(5), J10(4), C19B(4)
BROWN CREEPER	1	1	56		4	4	3	69	P10(39), C19(8), A9(3)
CACTUS WREN		50	2					52	W2(18), C3(13), B9(6)
ROCK WREN		3	4					7	C19B(2), C3, H3, C19, R9, P10(1)
CANYON WREN			13					13	M3(6), W5(5), C19(1), C19B(1)
BEWICK'S WREN		45	161			15		221	P10(83), S27(20), B9(13)
HOUSE WREN	70	3	237		235	75	762	1382	J13(677), W5(193), G8(187)
WINTER WREN			33					33	R17(13), P10(9), C1(5)
MARSH WREN	7	2	9			3		21	J2(6), M6(6), V2(2), W19(2)
AMERICAN DIPPER	1		5				3	9	C1(3), C8(2), W15(2)
GOLDEN-CROWNED KINGLET	1		193		10	38	1	243	P10(152), C1(20), R17(19)
RUBY-CROWNED KINGLET	6	26	567		11	110	28	748	P10(327), C1(83), K2(53)
BLUE-GRAY GNATCATCHER			8			1		9	M27(3), C19B(2), C1, V1, S27, C19
BLACK-TAILED GNATCATCHER		1	19					20	C19(16), S4, M27, C19B, R9(1)
ELEPAIO				16				16	F3
WHITE-RUMPED SHAMA				7				7	C21
WESTERN BLUEBIRD	75		214		376	1279	36	1980	C16(628), E2(249), L1(194)
MOUNTAIN BLUEBIRD	3587				1465	77	265	5394	S34(1477), J5(1069), M9(588)
TOWNSEND'S SOLITAIRE		3	99			10	1	113	B15(97), V2(7), C2(3)
OMAO				21				21	F3
VEERY	2		1				1	4	J2(2), F2(1), J13(1)
SWAINSON'S THRUSH	122		670		37	28	9	866	C1(313), P10(140), J2(111)
HERMIT THRUSH	10	29	870		5	23	19	956	C1(462), P10(262), R17(32)
AMERICAN ROBIN	223	7	274		105	148	189	946	K4(146), C14(101), C1(73)
VARIED THRUSH	3		43		2	15		63	P10(21), C1(16), A7(5)
RED-BILLED LEIOTHRIX				3				3	F3
WRENTIT			266					266	P10(216), R17(18), S27(17)
GRAY CATBIRD	33				2	7	7	49	J2(31), B14(7), J13(6)
NORTHERN MOCKINGBIRD	2	25	84					111	C1(40), W19(8), C19(6)
SAGE THRASHER						9		9	V2(8), H18(1)
BROWN THRASHER	1		2				1	4	P10(2), H7(1), J2(1)
BENDIRE'S THRASHER		1						1	B9
CURVE-BILLED THRASHER		143						143	W2(54), C2(44), C3(21)
CALIFORNIA THRASHER			14					14	C19(8), M27(4), M3(1), M27A(1)
CRISSAL THRASHER		4	3					7	B9(3), C19B(2), C1(1), C2(1)
BOHEMIAN WAXWING					72		1	73	J7(72), M4(1)
CEDAR WAXWING	111	1	84		29	55	6	286	P8(88), P10(59), K2(34)
PHAINOPEPLA		12	13					25	M27(11), W2(8), B9(2)
NORTHERN SHRIKE	8				1	6		15	M19(4), A12(3), C11(2)
LOGGERHEAD SHRIKE	72	2	41		10	68		193	P4(65), C11(61), C1(20)
COMMON MYNA				58				58	F3
EUROPEAN STARLING	1	4	29		1	89	109	233	C6(97), K7(68), C1(17)
JAPANESE WHITE-EYE				13				13	F3
WHITE-EYED VIREO			1					1	J10
BELL'S VIREO		38						38	W2(27), R9(6), B9(4)

NAME	AK/ CANADA	AZ/NM/ MX	CA	HI	NV/ID/ MT	OR/WA	WY/CO/ UT	TOTAL	HIGH BANDERS
SOLITARY VIREO	6	1	22		2	2	1	34	M27(9), P10(6), J2(4)
YELLOW-GREEN VIREO			1					1	P10
HUTTON'S VIREO		7	75			12		94	P10(54), K2(11), F2(9)
WARBLING VIREO	102	5	355		22	24	23	531	P10(242), J2(98), C1(29)
RED-EYED VIREO	27		3			1	2	33	J2(25), P10(3), P8(2), S25(2)
TENNESSEE WARBLER	93		7			1		101	P8(51), J2(39), P10(6)
ORANGE-CROWNED WARBLER	43	14	462		16	165	37	737	P10(140), C1(139), S9(71)
NASHVILLE WARBLER	1	7	60		3	7		78	M27(14), A10(11), P10(11)
VIRGINIA'S WARBLER		5	2				5	12	K4(5), H3(3), P10(2)
LUCY'S WARBLER		42	3					45	W2(31), R9(4), C2(3)
YELLOW WARBLER	455	37	443		23	154	133	1245	J2(347), C1(182), P10(145)
CHESTNUT-SIDED WARBLER	1		4					5	P10(2), J2(1), J10(1), R17(1)
MAGNOLIA WARBLER	10		12					22	P10(9), P8(7), J2(3)
CAPE MAY WARBLER	3		2					5	P10(2), P8(2), J2(1)
BLACK-THROATED BLUE WARBLER			11					11	P10(9), J10(1), R17(1)
MYRTLE WARBLER	121	2	291		2	17	11	444	R17(166), P10(103), J2(53)
AUDUBON'S WARBLER	80	32	762		265	323	66	1528	B9(264), V2(253), C1(192)
BLACK-THROATED GRAY WARBLER		6	25				2	33	P10(10), M27(6), C1(3)
TOWNSEND'S WARBLER	2	1	157		3	14	1	178	P10(116), C1(9), K2(9)
HERMIT WARBLER			15					15	P10(10), C19(2), C1, M27, S40(1)
BLACK-TH. GREEN WARBLER	4		3					7	J2(4), P10(3)
BLACKBURNIAN WARBLER			2					2	P10
PRAIRIE WARBLER			1					1	P10
WESTERN PALM WARBLER	18		30					48	P10(28), C18(15), J2(3)
BAY-BREASTED WARBLER	1							1	P10
BLACKPOLL WARBLER	17		16			2		35	P10(16), P8(11), C18(3)
BLACK-AND-WHITE WARBLER	1		9					10	P10(7), C1(1), J2(1), M6(1)
AMERICAN REDSTART	18		12		1	2	7	40	J2(15), P10(13), J13(7)
WORM-EATING WARBLER			1					1	J10
OVENBIRD	3		12				1	16	P10(12), P8(2), J2(1), K4(1)
NORTHERN WATERTHRUSH	27	8	1		4		3	43	J2(17), W10(6), W2(5)
KENTUCKY WARBLER			1					1	P10
CONNECTICUT WARBLER			1					1	R17
MOURNING WARBLER	2		3					5	P10(3), J2(1), P8(1)
MAC GILLIVRAY'S WARBLER	6	34	87		18	41	46	232	A9(36), C1(25), M27(19)
COMMON YELLOWTHROAT	16	20	214		5	15	3	273	C1(72), M6(67), P10(38)
HOODED WARBLER			1					1	R17
WILSON'S WARBLER	61	43	673		23	64	1	865	P10(224), C1(170), M6(75)
CANADA WARBLER			2					2	P10(1), J10(1)
PAINTED REDSTART		4						4	F1
YELLOW-BREASTED CHAT		18	10		2	2		32	C2(11), W2(7), C1(4)
HEPATIC TANAGER		1						1	F1
SUMMER TANAGER		23						23	C2(20), W2(3)
WESTERN TANAGER	3	37	105		17	20	77	259	K4(76), P10(25), W2(23)
NORTHERN CARDINAL		99		2				101	W2(33), C2(29), B9(12)
PYRRHULOXIA		42						42	W2(14), C2(12), B9(7)
ROSE-BREASTED GROSBEAK		1	10		1			12	P10(10), C2(1), J7(1)
BLACK-HEADED GROSBEAK	12	40	72		4	11	158	297	K4(157), C1(31), W2(19)
BLUE GROSBEAK		27	3					30	C2(18), W2(4), P10(3)
LAZULI BUNTING		25	32		103	18	578	756	K4(527), J7(101), M27(21)
INDIGO BUNTING		4	4					8	P10(4), C2(3), M21(1)
PAINTED BUNTING		1						1	C2
DICKCISSEL			1					1	P10
GREEN-TAILED TOWHEE		46	15		2	12	20	95	W2(20), B9(13), H18(6)
RUFIOUS-SIDED TOWHEE	1	1	11			3	3	19	M27(6), M27A(5), E2(2)
SPOTTED TOWHEE	4	14	144		4	119	72	357	K4(72), P10(50), V2(36)
BROWN TOWHEE		59	182			1		242	C1(41), C19(28), C2(18)
ABERT'S TOWHEE		71						71	W2(42), B9(12), R9(5)
CASSIN'S SPARROW		3			1			4	B9(3), B12(1)
RUFIOUS-WINGED SPARROW		2						2	B9(1), W2(1)
RUFIOUS-CROWNED SPARROW		16	14					30	C2(7), M27(5), C19C(5)
AMERICAN TREE SPARROW	68		2				90	160	M4(70), C18(27), A12(27)
CHIPPING SPARROW	119	130	52		43	5	56	405	J2(82), B9(68), P10(41)
CLAY-COLORED SPARROW	246		20					266	J2(242), P10(20), P8(3)
BREWER'S SPARROW		33	4		11	40	1	89	H18(26), C2(20), V2(13)
BLACK-CHINNED SPARROW		6						6	B9(3), C2(2), C3(1)
VESPER SPARROW	16	103	4			130		253	C2(95), H18(64), C2(63)



NAME	AK/ CANADA	AZ/NM/ MX	CA	HI	NV/ID/ MT	OR/WA	WY/CO/ UT	TOTAL	HIGH BANDERS
LARK SPARROW	1	42	92				13	148	M27B(57), W2(26), S4(21)
BLACK-THROATED SPARROW		54	31					85	C3(26), B9(21), F12(12)
SAGE SPARROW			25					25	C19(23), C19(1), S4(1)
LARK BUNTING		5					1	6	C2(4), B12(1), H15(1)
SAVANNAH SPARROW	128	68	152		30	39	2	419	J2(76), C2(64), C18(42)
GRASSHOPPER SPARROW		1	2					3	P10(2), B9(1)
LE CONTE'S SPARROW	8							8	J2
SHARP-TAILED SPARROW	1		1					2	J2(1), S4(1)
FOX SPARROW	76		411		4	65	9	565	C1(166), R17(97), P10(55)
SONG SPARROW	645	14	820		28	265	16	1788	U3(578), C1(351), P10(146)
LINCOLN'S SPARROW	97	166	458		7	95	98	921	C1(177), C19A(92), A9(89)
SWAMP SPARROW	11	2	17					30	P10(16), C18(11), B9, C2, T7(1)
WHITE-THROATED SPARROW	48	2	18		1	1		70	P8(37), P10(8), J2(6)
GOLDEN-CROWNED SPARROW	47		792			393		1232	C1(330), V1(142), P10(132)
WHITE-CR. SP. (RACE ?)	234	95	63		58	94	254	798	L4(219), A9(159), H15(94)
GAMBEL'S WHITE-CR. SP.	552	1275	2607		51	1291	29	5805	C3(619), B11(527), B14(519)
MOUNTAIN WHITE-CR. SP.		2	70		41	35	41	189	M27(68), H18(26), R2(26)
PUGET SOUND WHITE-CR. SP.	43		602			95		740	C1(319), M1(91), K2(79)
NUTTALL'S WHITE-CR. SP.			236					236	P10(99), G7(69), R17(64)
HARRIS' SPARROW	21		1		2	1	2	27	K8(11), C18(7), J7(2)
DARK-EYED JUNCO (RACE ?)	6						14	20	M4(14), C11(6)
SLATE-COLORED JUNCO	150		6		5	10	16	187	W8(65), J2(26), W10(18)
OREGON JUNCO	379	298	954		129	1128	529	3417	W8(288), C19(242), K2(223)
GRAY-HEADED JUNCO		30	2		6		224	262	A9(113), R2(90), H3(12)
WHITE-WINGED JUNCO							31	31	D5
YELLOW-EYED JUNCO		313						313	S16
LAPLAND LONGSPUR	188							188	J12(100), L3(45), C18(17)
CHESTNUT-COLLARED LONGSPUR			2					2	P10
SNOW BUNTING	34							34	P3(24), K8(10)
BOBOLINK	10		1			1		12	J2(10), P10(1), V2(1)
RED-WINGED BLACKBIRD	93	27	275		22	941	378	1736	O1(798), C6(351), C1(192)
TRICOLORED BLACKBIRD			2					2	W5
WESTERN MEADOWLARK	2	9	2		22	1		36	T2(22), C3(6), C2(3)
YELLOW-HEADED BLACKBIRD	8		2			1134	18	1162	O1(921), M19(201), R13(18)
RUSTY BLACKBIRD	1							1	J2
BREWER'S BLACKBIRD	10	2	201		6	60		279	M3(67), M1(44), K7(22)
GREAT-TAILED GRACKLE		14					11	25	A9(11), S5(7), B9(4)
COMMON GRACKLE					14		52	66	C6(34), E3(14), U3(12)
BRONZED COWBIRD		10						10	W2(8), C4(2)
BROWN-HEADED COWBIRD	165	17	100		7	70	47	406	U3(152), V2(36), R2(27)
ORCHARD ORIOLE			2				2	4	H7(2), P10(2)
HOODED ORIOLE		7	44					51	S38(16), M1(12), M27(7)
BALTIMORE ORIOLE	43		4				7	54	J2(39), M16(7), P8(4)
BULLOCK'S ORIOLE		16	122		6	27	7	178	S4(65), M21(17), C1(10)
SCOTT'S ORIOLE		19	1					20	C4(18), F1(1), M27(1)
GRAY-CROWNED ROSY-FINCH							447	447	A9(249), R2(194), F6(4)
BLACK ROSY-FINCH							9	9	R2(5), A9(4)
BROWN-CAPPED ROSY-FINCH							1199	1199	A9(1129), R2(70)
PINE GROSBEAK							9	9	A9(5), D4(4)
PURPLE FINCH	31		318			161	1	511	P10(185), R17(64), V1(63)
CASSIN'S FINCH		15	57		26	148	644	890	K4(218), D5(161), A9(138)
HOUSE FINCH	141	3028	3959	16	114	1564	1525	10347	C1(1477), K4(1261), W2(1027)
RED CROSSBILL			1			111		112	W17(110), K2(1), R17(1)
COMMON REDPOLL	1304							1304	P11(1027), W10(155), P3(64)
HOARY REDPOLL	19							19	P11
PINE SISKIN	343	12	248		497	956	2432	4488	K4(1729), D5(551), B9(381)
LESSER GOLDFINCH		32	156			5		193	M27(31), C1(27), C19(23)
LAWRENCE'S GOLDFINCH			8					8	S4(5), C19(2), M27B(1)
AMERICAN GOLDFINCH	73	1	217		1	403	17	712	K7(212), B14(130), C1(114)
EVENING GROSBEAK	49	22	1		122	99	14	307	B9(71), A7(45), P8(44)
LAYSAN FINCH				381				381	C21
COMMON AMAKIHI				59				59	F3
AKIPOLAU				1				1	F3
HAWAII CREEPER				10				10	F3
AKEPA				23				23	F3
IIWI				96				96	F3
APAPANE				199				199	F3
HOUSE SPARROW	2	441	568		11	12	22	1056	M3(413), W2(364), M1(79)
NUTMEG MANAKIN				4				4	F3
	47794	14930	47210	11431	12341	23361	20953	178020	

# Summary report of individual banders

478 responding banders including 22 subpermittees and  
165 banders reporting no banding/no banding in the WBBA area/no banding with USFWS or CWS bands

CODE	BANDER	ADDRESS	SPECIES	BANDED
A10	Abbors, Stephen E.	1016 Rudgear Rd., Walnut Creek, CA 94596	3	23
A1	Abeles, Ernest R.	8451 Traminer Court, San Jose, CA 95135	6	34
A6	Alaska Maritime NWR	202 Pioneer, Homer, AK 99603	5	465
A12	Alaska Peninsula NWR (Ron Hood)	P. O. Box 277, King Salmon, AK 99613	7	74
A4	Alberta Fish & Game Division	9945-108 Street, Edmonton, Alberta T5K 2G6	21	375
A9	Allen, Susan	Rocky Mt. Biol. Lab., P. O. Box 519, Crested Butte, CO 81224	45	2198
A5	Alta. Fish & Wldf. Div. (E. Hofman)	4901 48th St. Parkland Sq. Red Deer, AB T4N 6M4	1	32
A7	Altman, Bob	8341 SE 190th., Portland, OR 97236	22	712
A11	Anderson, Clifford M.	P. O. Box 248, Bow, WA 98232	7	169
A13	Anderson, Daniel W.	Wildlife & Fisheries Biology, Univ. of Calif., Davis, CA 95616	2	183
A3	Anderson, David E.	227 Colgate, Kensington, CA 94708	8	72
A2	Anderson, Jon. D.	5710 Second Ave. SW, Olympia, WA 98502	19	184
A8	Arner, Bradley D.	241 Gladstone Bay, Fort McMurray, AB T9K 1S3	1	52
B11	Barrentine, Carl D.	Dept. of Biology, CSU, Bakersfield, CA 93311	2	533
B18	Barry, Tom W.	14322 Ravine Dr., Edmonton, AB T5N 3M3	3	1228
B16	Basham, Michael P.	1820 Copperton Lane, Camino, CA 95709	4	6
B6	Bechard, Marc J.	Dept. of Zoology, Boise State Univ., Boise, ID 83725	4	141
B3	Benedict, Richard	780 E. 38th., Eugene, OR 97405	15	198
B10	Benning, Douglas S.	USFWS, 730 Simms, Room 292, Golden, CO 80401	5	2886
B19	Bloom, Peter H.	13611 Hewes Avenue, Santa Ana, CA 92705	16	625
B19A	Anderson, R.	2850 Layton Drive, Davis, CA 95616	8	80
B19B	Austin, K.	P. O. Box 914, Mt. Shasta, CA 96067	1	8
B19C	Chubb, J.	11632 Wallingsford Rd., Los Alamitos, CA 90720	2	10
B19D	Detrich, P.	4505 Argonaut Way, Sacramento, CA 95864	6	162
B19E	Gibson, M.	9641 Janice Circle, Villa Park, CA 92667	6	95
B19F	Hawks, S.	BLM, 705 Hall Street, Susanville, CA 96130	6	58
B19G	Henckel, E. & J.	Rt. 1, Box 1380, Mt. Bethel, PA 18343	12	61
B19H	Johnstone, R.	1415 Dove Lane, Yreka, CA 96097	5	23
B19I	McCarthy, C.	U. S. Forest Service, 441 N. Main, Alturas, CA 96101	31	207
B19J	McCrary, M.	5927 Lakewood Blvd., Lakewood, CA 90712	4	4
B19K	Spiegel, L.	P. O. Box 4886, Chico, CA 95927	6	71
B19L	Walton, B. & Aulman	Predatory Bird Research Group, U.C. Santa Cruz, Santa Cruz, CA 95064	5	160
B19M	Woodbridge, B.	P. O. Box 134, MacDoel, CA 96058	11	210
B8	Boersma, Dee	Inst. for Env. Studies, Univ. of Washington, Seattle, WA 98195	2	32
B17	Bolster, David C.	Dept. of EPO Biology, Univ. of Colorado, Boulder, CO 80309	1	23
B1	Bowdoin National Wildlife Refuge	P. O. Box J, Malta, MT 59538	7	566
B15	Bowen, Rhys V.	Div. Environmental Studies, Univ. of Calif., Davis, CA 95616	2	138
B12	Bowers, Rick	3660 E. 3rd. St., #D-1, Tucson, AZ 85716	6	31
B5	Brackney, Alan	Arctic NWR, 101-12th Ave., Box 20, Fairbanks, AK 99701	6	73
B14	Brady, George L.	P. O. Box 535, Pateros, WA 98846	65	2555
B2	Brown, Jerram L.	Dept. Biol. Sciences, S.U.N.Y., Albany, NY 12222	1	104
B13	Buitron, Deborah	Zoology Dept., North Dakota State Univ., Fargo, ND 58105	2	105
B4	Bull, Evelyn	1401 Gekeler Lane, LaGrande, OR 97850	2	23
B7	Bureau Land Mgmt., (Bill Neitro)	P. O. Box 2965, Portland, OR 97208	1	272
B9	Burk, Kathryn B.	2738 West Casas Dr., Tucson, AZ 85741	120	2019
C9	Caffrey, Carolee	Biology Department, UCLA, Los Angeles, CA 90021	1	90
C22	Calder, William A.	Dept. of Ecology & Evol. Biol., Univ. of Arizona, Tucson, AZ 85721	9	658
C15	Calif. Dept. Fish & Game	1416 Ninth St., Sacramento, CA 95814	8	487
C10	California Waterfowl Association	2516 B Grizzly Island Road, Suisun, CA 94585	13	4329
C7	Campbell, Bruce	Alaska Dept. F&G, 333 Raspberry Rd., Anchorage, AK 99502	2	1005

C12	Campbell, Erick G.	4858 E. Loma Loop, Sierra Vista, AZ 85635	1	3
C24	Can. Wldf. Serv. (James Hawkings)	202-204 Range Road, Whitehorse, Yukon Y1A 3V1	10	213
C18	Can. Wldf. Serv. (Jacques Sirvis)	P. O. Box 637, Yellowknife, Northwest Territory X1A 2N5	27	407
C14	Can. Wldf. Serv. (Dave Smith)	P. O. Box 340, Delta, BC V4K 3Y3	33	2247
C20	Can. Wldf. Serv. (Turner & Pryor)	4999 - 98th Ave, Rm 230, Edmonton, AB T6B 2X3	12	8531
C19	Carlson, Barbara A.	P. O. Box 55419, Riverside, CA 92517	83	1461
C19A	Grayraven, Cin	25247 Bessant, San Bernardino, CA 92404	21	163
C19B	Williams, Douglas	P. O. Box 21, Running Springs, CA 92382	47	181
C19C	McKernan, R. L.	1230 Friar Lane, Redlands, CA 92373	21	281
C13	Channing, Edward C.	1115 Sierra Drive, Turlock, CA 95380	1	35
C2	Chapin, Ross E.	4340 N. Via Raposa, Tucson, AZ 85718	93	2384
C4	Church, Jane P.	P. O. Box 39, Sonoita, AZ 85637	28	236
C8	Clark, Thomas O.	Naval Air Station Lemoore, Code 18 DOO, Lemoore, CA 93246	23	85
C16	Clouse, David/Walters, George	ATTN: Fish & Wildlife, Fort Lewis, WA 98433	3	636
C23	Cogswell, Howard L.	1548 East Ave., Hayward, CA 94541	10	70
C5	Cohen, Robert R.	Dept. Biol., Metro State College, 1006 11th St., Denver CO 80204	2	1510
C11	Collister, Doug	3426 Lane Cres SW, Calgary, Alberta T3E 5X2	32	284
C17	Columbia NWR (Wm. R. Radke)	Columbia NWR, P. O. Drawer F, Othello, WA 99344	13	3306
C21	Conant, Sheila	University of Hawaii, 2450 Campus Rd., Honolulu, HI 96822	2	388
C3	Corchran, C. E.	7214 E. Camino Vecino, Tucson, AZ 85715	51	1156
C1	Coyote Creek Riparian Station	P. O. Box 1027, Alviso, CA 95002	97	6867
C6	Cummings, John	Denver Federal Center, Lakewood, CO 80225	7	607
D3	Danner, Bob	8507 - 87 Avenue, Edmonton, Alberta T6C 1K1	3	93
D2	DeLong, Russ	42 Glen Dr., Mill Valley, CA 94941	4	36
D5	Den, Steve	178 Poudre River Road, Bellvue, CO 80512	24	1336
D9	Dittrick, Bob	P. O. Box 10-3747, Anchorage, AK 99510	6	31
D8	Divoky, George J.	Inst. of Arctic Biology, Univ. of Alaska, Fairbanks, AK 99775	1	251
D6	Dixon, Keith L.	Dept. Biology, Utah State Univ., Logan, UT 84322	4	20
D7	Dixon W/L Res. Sta. (Gilmer et al.)	6924 Tremont Rd., Dixon, CA 95620	2	447
D1	Duffield, Mrs. M. O.	E 3660 Pickering Rd., Shelton, WA 98584	6	70
D4	Duffy, Katy	P. O. Box 43, Moran, WY 83013	7	171
E8	Elems, Stan	P. O. Box 4021, Modesto, CA 95350	3	36
E6	Ellis Bird Farm LTD (Myrna Pearman)	P. O. Box 2980, Lacombe, Alberta T0C 1S0	1	513
E5	Ellis, David H.	Rt. 2, Box 264A, Laurel, MD 20708	3	13
E4	Elmore, Marjorie M.	1728 Hudson Dr., San Jose, CA 95124	3	30
E2	Eltzroth, Elsie K.	3595 NW Roosevelt Dr., Corvallis, OR 97330	17	308
E3	Eng, Robert L.	Dept. of Biology, Montana State University, Bozeman, MT 59717	6	28
E7	Enright, Fran	83 Long View, Evergreen, CO 80439	6	214
E1	Ervin, Stephen	Dept. Biology, Calif. State Univ., Fresno, CA 93740	3	14
F13	Falka, Gary A.	P. O. Box 440, Bodega Bay, CA 94923	1	7
F10	Ferris, Patricia	Life Sci. Dept., L. A. Pierce College, Woodland Hills, CA 91371	10	66
F1	Ferry, David R.	37273 Oak Grove Road, Yucaipa, CA 92399	30	978
F12	Fisler, George F.	Dept. of Biology, Calif. State Univ., Northridge, CA 91330	4	480
F5	Fitzner, Richard E.	Battelle, Pacific NW Lab., P. O. Box 999, Richland, WA 99352	10	127
F2	Flavin, John W.	Box 1086, Summerland, CA 93067	42	396
F4	Fleming, Tracy L.	7701 Zengle Road N.E., Olympia, WA 98506	3	8
F4A	Bachman, Randy		3	13
F9	Franklin, Alan	P. O. Box 4446, Arcata, CA 95521	1	225
F3	Freed, Leonard A.	Dept. of Zoology, University of Hawaii, Honolulu, HI 96822	14	521
F6	French, Norman R.	Campus Box 450, Univ. of Colorado, Boulder, CO 80309	1	4
F11	Fresno Wldf. Rescue & Rehab.	P. O. Box 9032, Fresno, CA 93790	7	82
F7	Fugle, Gary N.	Dept. Biol. Sciences, Saddleback College, Mission Viejo, CA 92692	7	18

F8	Funk, Howard	Colorado Div. of Wildlife, 317 W. Prospect, Ft Collins, CO 80526	2	2885
G4	Garrison, Barrett A.	106 Dream St., Vacaville, CA 95687	4	524
G5	Gaston, Anthony J.	C.W.S., Environment Canada, Ottawa K1H OM3	2	2076
G8	Geis, Mary	13870 Kelly Canyon Rd., Bozeman, MT 59715	4	398
G1	Genelly, Richard E.	1628 Hyland Street, Bayside, CA 95524	10	130
G7	Gerstenberg, R. H.	Kings River College, 995 N. Reed, Reedley, CA 93654	11	88
G3	Gliński, Rich	2222 W. Greenway, Phoenix AZ 85023	1	7
G10	Golden Gate Raptor Observatory	GGNRA, Building 201, Fort Mason, San Francisco, CA 94123	10	502
G9	Green, Helen A.	2001 Yolo Ave., Berkeley, CA 94707	10	82
G6	Groschupf, Kathleen	5605 S. Spinnaker, Tempe, AZ 85283	1	2
G2	Gubanich, Alan A.	Department of Biology, University of Nevada, Reno, NV 89557	14	2497
H10	Hahn, Shari	503 Bridger, Rock Springs, WY 82901	3	71
H5	Haleakala National Park	P. O. Box 369, Makawao, HI 96768	1	3
H12	Halekas, George	Star Route, Wauconda, WA 98859	12	565
H3	Halstead, Bruce G.	1825 Zena Lona Ct. N.E., Albuquerque, NM 87112	28	871
H8	Hannon, Susan	Dept. of Zoology, University of Alberta, Edmonton	1	47
H13	Harmata, Al	4756 Itana Circle, Bozeman, MT 59717	7	72
H13A	Restani, Marco		3	53
H20	Hawaiian Div. of For. & Wldf.	1151 Punchbowl Street, Honolulu, HI 96813	9	1780
H9	Hawaiian Islands NWR	P. O. Box 50167, Honolulu, HI 96850	17	8229
H15	Hawes, W. D.	P. O. Box 239, Kinnear, WY 82516	15	235
H2	Henny, Charles J.	480 SW Airport Road, Corvallis, OR 97333	1	20
H18	Herman, Steven G.	2935 70th Ave. SW, Olympia, WA 98502	23	219
H1	Hiebert, David L.	P. O. Box 2515, Gearhart, OR 97138	9	27
H19	Hoffman, Steve	P. O. Box 1382, Albuquerque, NM 87103	10	1903
H17	Hogg, Norman D.	5629 Cedros Ave., Van Nuys, CA 91411	24	477
H16	Hogue, Janet G.	16602 NW Somerset Drive, Beaverton, OR 97006	1	2
H7	Howe, William H.	Nat. Ecol. Cen., USFWS, 1300 Blue Spruce Dr., Ft Collins, CO 80524	15	137
H14	Hubbard, John P.	2016 Valle Rio, Sante Fe, NM 87501	11	120
H6	Hughes, Jeffrey H.	333 Raspberry Road, Anchorage, AK 99502	12	131
H11	Hunt, George L., Jr.	Dept. Ecol. & Evol. Biology, Univ. of California, Irvine, CA 92717	3	211
H4	Hutto, Richard L.	Biological Sciences, University of Montana, Missoula, MT 59812	9	70
I1	Innoko NWR	P. O. Box 69, McGrath, AK 99627	5	1222
I3	Inouye, David	Rocky Mt. Biol. Lab., P. O. Box 519, Crested Butte, CO 81224	16	92
I2	Izembek NWR (Chris Dau)	P. O. Box 127, Cold Bay, AK 99571	2	50
J1	Jehl, Joseph R.	Hubbs Marine Research Inst., 1700 S. Shores Rd., San Diego, CA 92109	1	258
J12	Jensen, Kent C.	Dept. of Wildlife, Texas A&M Univ., College Station, TX 77840	8	133
J7	Jeppson, Joseph H.	962 Highland Blvd., Pocatello, ID 83204	37	464
J8	Johnson, B. R.	Biol. Sciences, Univ. of Idaho, Moscow, ID 83843	1	85
J3	Johnson, Eric V.	BioSci Dept, Calif Poly St. Univ., San Luis Obispo, CA 93407	1	1
J13	Johnson, L. S.	P. O. Box 582, Big Horn, WY 82833	7	704
J9	Johnson, Oscar W.	Dept. of Biology, Moorhead State University, Moorhead, MN 56560	1	31
J5	Johnson, Roger S.	P. O. Box 555, Provost, Alberta T0B 3S0	1	1069
J10	Johnson, Virginia P.	4637 Del Mar Ave., San Diego, CA 92107	32	263
J2	Jones, Edgar T.	43 Westbrook Drive, Edmonton, Alberta T6J 2C8	120	3388
J11	Jones, Elinor G.	Swan Lake Rt., Bigfork, MT 59911	21	435
J4	Jones, Ian L.	Dept. of Biology, Queen's Univ., Kingston, Ontario K7L 3N6	2	253
J6	Jozwiak, Elizabeth A.	Kenai NWR, P. O. Box 2139, Soldotna, AK 99669	1	3
K10	Kaminsky, Muriel	1213 Robertson Way, Sacramento, CA 95818	2	5
K6	Kanuti NWR	Federal Bldg., Box 11, 101 12th. Ave., Fairbanks, AK 99701	2	57
K7	Kebbe, Chester E.	5414 N.E. Emerson St., Portland OR 97718	39	1491
K1	Keller, Kent R.	1635 South 350 East, Orem, UT 84058	2	100
K11	Kelly, John P.	Audubon Cypress Grove Preserve, P. O. Box 753, Marshall, CA 94940	6	11

K13	Kennedy, Patricia	MSJ 495 Los Alamos National Laboratory, Los Alamos, NM 87544	16	63
K4	Killpack, Merlin L.	1726 24th. St., Ogden, UT 84401	44	4625
K9	Kinnaird, John S.	P. O. Box 676, Barrhead, Alberta T0G 0E0	8	243
K3	Kirkley, John S.	Department of Biology, Western Montana College, Dillon, MT 59725	2	4
K5	Klamath Basin NWR	Rt. 1, Box 74, Tulelake, CA 96134	5	1004
K12	Koenig, Walter D.	Star Route Box 80, Carmel Valley, CA 93924	4	331
K14	Kotliar, Natasha	Dept. of Biology, Colorado State Univ., Ft Collins, CO 80523	1	95
K2	Kridler, Eugene	103 Huckleberry Crest, Sequim, WA 98382	54	1038
K8	Kuyt, Ernie	Can. Wldf. Serv., 4999 - 98th Ave, Edmonton, Alberta T6B 2X3	8	93
L1	Larson, Alfred G.	3015 Silver St., Boise, ID 83703	11	845
L2	Lehner, Philip N.	Dept. of Biology, Colo. State Univ., Ft. Collins, CO 80523	1	38
L4	Lein, M. Ross	Dept. Biol. Sci., Univ. of Calgary, Calgary, AB T2N 1N4	6	354
L6	Lewis, David B.	UCSC Long Marine Laboratory, 100 Shaffer Rd., Santa Cruz, CA 95060	2	303
L5	Littlefield, Carroll D.	HC72 Box 260, Princeton, OR 97721	3	4
L3	LGL Alaska Res. Assoc. Inc.	1410 Cavitt Street, Bryan TX 77801	12	852
L7	Lyon, Bruce	Dept of Biology, Princeton University, Princeton, NJ 08544	1	45
M5	Maestrell, John R.	7824 Lemon St., Fair Oaks, CA 95628	1	35
M15	Malheur NWR	P. O. Box 245, Princeton, OR 97721	9	840
M22	Mann, Nancy Jean	Dept. Biology, Cuesta College, San Luis Obispo, CA 93403	27	139
M18	Mannan, Robert William	214 Bio. Sci. E., Univ. of Arizona, Tucson, AZ 85721	1	58
M7	Manning, D. C.	Box 2178, Rt. 2, Roosevelt, UT 84066	5	20
M11	Manolis, Tim	808 El Encino Way, Sacramento, CA 95864	4	4
M25	Marti, Carl	Dept. of Zoology, Weber State College, Ogden, UT 84408	2	223
M4	Martin, S. G.	7121 N. County Road 9, Wellington, CO 80549	14	150
M8	Maxwell NWR	P. O. Box 276, Maxwell, NM 87728	1	208
M10	McCaffery, Brian J.	Yukon Delta NWR, P. O. Box 346, Bethel, AK 99559	2	5
M14	McClelland, B. Riley	School of Forestry, University of Montana, Missoula, MT 59812	2	27
M3	McClure, H. Elliott	69 East Loop Drive, Camarillo, CA 93010	39	1742
M24	McComb, Bill	735 NW James Place, Corvallis, OR 97331	8	25
M17	McCowan, Randy	Rt 5 Box 164, Cordrey Dr., Escondido, CA 92025	1	7
M27	McKernan, Robert L.	1230 Friar Lane, Redlands, CA 92373	59	1096
M27A	Long, M. C.		42	238
M27B	Myers, Stephen J.		18	433
M21	McKnight, Mrs. Daniel M.	P. O. Box 246, Glenwood, NM 88039	12	25
M16	McLean, Robert G.	Div. Vector-borne Vir. Diseases, CDC, Box 2087, Ft Collins, CO 80522	22	110
M20	Medicine Lake NWR	HC 51, Box 2, Medicine Lake, MT 59247	5	1556
M19	Merrick, George G.	3090 N. E. 27th. St., Bend, OR 97701	24	959
M1	Mewaldt, L. Richard	4150 Golf Drive, San Jose, CA 95127	38	929
M2	Meyers, S. Mark	NSI Technology Services Corp., 200 SW 35th St., Corvallis, OR 97333	1	40
M26	Meyers, Tracy A.	P. O. Box 176, Forest Falls, CA 92330	4	14
M6	Modoc NWR (Clark Bloom)	P. O. Box 1610, Alturas, CA 96101	63	3589
M9	Moos, Louis M.	712 South 13, Bozeman, MT 59715	6	769
M23	Morrison, Michael L.	Dept. Forestry, Univ. of Calif., Berkeley, CA 94720	4	13
M13	Mossop, D.	Wildlife Branch, Govt. of Yukon, Box 2703, Whitehorse, YT	11	407
M12	Murphy, Edward C.	Institute of Arctic Biology, Univ. of Alaska, Fairbanks, AK 99775	3	68
N6	Nat. Aud. Soc., (Pete DeSimone)	P. O. Box 967, Trabuco Cyn., CA 92678	2	14
N2	National Bison Range	132 Bison Range Road, Moiese, MT 59824	1	107
N4	New Mexico Dept. Game & Fish	State Capitol Complex, Santa Fe, NM 87503	1	8
N1	Nicholls, Thomas H.	North Central Forest Exp. Sta., 1992 Folwell Ave., St. Paul, MN 55108	11	20
N3	Nisqually NWR (W. B. Hesselbart)	100 Brown Farm Road, Olympia, WA 98506	4	256
N5	Northwest Terr. Wildlife Service	Dept. of Renewable Resources, GNWT, Yellowknife, N.W.T. X1A 2L9	8	1538

O2	Oakland Parks & Recreation	1520 Lakeside Drive, Oakland, CA 94612	2	12
O4	Olson, Edward	Bureau of Indian Affairs, Navajo Area Office, Window Rock, AZ 86515	2	61
O3	Oregon Coop. Wldf. Res. Unit	104 Nash Hall, Oregon State University, Corvallis, OR 97331	2	146
O1	Orians, Gordon H.	Dept. of Zoology, NJ-15, Univ. of Washington, Seattle, WA 98195	2	1719
P5	Pacific SW Exp. Sta., USFS	1700 Bayview Dr., Arcata, CA 95521	1	28
P1	Patterson, John Michael	384 Altadena Ave, Astoria, OR 97103	13	286
P9	Paul, Don S.	801 No. Woodridge Dr., Layton, UT 84040	7	41
P7	Peterson, B. "Moose"	P. O. Box 30694, Santa Barbara, CA 93130	10	50
P11	Peyton, Leonard J.	Inst. of Arctic Biology, Univ. of Alaska, Fairbanks, AK 99775	5	1057
P11A	Collins, Cliff	P. O. Box 698, Cordova, AK 99574	5	103
P12	Pierotti, Raymond	Dept. of Biology, Univ. of New Mexico, Albuquerque, NM 87131	1	150
P2	Platt, Stephen W.	P. O. Box 2274, Rock Springs, WY 82902	3	57
P8	Pletz, Erhard	6915 - 87 Avenue, Edmonton, AB T6B 0L5	76	2865
P3	Pogson, Thomas H.	2228 Railroad Drive, Fairbanks, AK 99709	15	194
P10	Point Reyes Bird Observatory	4990 Shoreline Highway, Stinson Beach, CA 94970	150	8758
P4	Poole, Linda	P. O. Box 147, Malott, WA 98829	1	65
P6	Pyle, Robert L.	741 N. Kalaheo Ave., Kailua, HI 96734	1	31
Q1	Quay, W. B.	2003 Ida Street, Napa, CA 94558	11	107
R17	Ralph, C. J.	1700 Bayview Drive, Arcata, CA 95521	63	1250
R5	Raphael, Martin G.	222 South 22nd St., Laramie, WY 82070	2	128
R4	Raveling, Dennis G.	Dept. Wildl. & Fish. Biol., Univ. Calif., Davis, CA 95616	1	31
R11	Ream, Catherine H.	4217 Timberlane, Missoula, MT 59802	2	2
R6	Red Rock Lakes NWR	Monida Star Route, Box 15, Lima, MT 59739	1	47
R14	Reese, Kerry Paul	Col. Forestry, Wldf. & Range Sci., Univ. of Idaho, Moscow, ID 83843	1	18
R2	Reiner, Lorraine	16 Colorado Highway S., Idaho Springs, CO 80452	16	558
R7	Reynolds, Richard T.	222 South 22nd. Street, Laramie, WY 82070	2	18
R15	Ridgefield NWR	P. O. Box 457, Ridgefield, WA 98642	5	280
R10	Ritchie, Robert J.	2671 Black Sheep Rd., Fairbanks, AK 99701	1	1
R1	Roberts, Craig S.	4006 Filbert, Tillamook, OR 97141	14	52
R3	Rodriguez, Joe B., Jr.	Las Vegas NWR, Rt 1 Box 399, Las Vegas, NM 87701	1	14
R16	Rogers, James M.	P. O. Box 984, Polson, MT 59860	0	0
R16A	Bishop, Marcella M.	750 Rocky Point Rd., Polson, MT 59860	10	115
R12	Russell, Ruth O.	2850 N. Camino de Oeste, Tucson, AZ 85745	13	1231
R9	Russell, Stephen M.	Dept. Ecol. & Evol. Biol., Univ. of Arizona, Tucson, AZ 85721	15	48
R8	Ruggiero, Leonard F.	3625 93rd Ave SW, Olympia, WA 98502	1	3
R13	Ryder, Ronald A.	Dept. of F&W Biol., Colo State Univ., Ft. Collins, CO 80523	42	2308
S18	Sacramento NWR	Route 1, Box 311, Willows, CA 95988	2	3095
S17	Salton Sea NWR	P. O. Box 120, Calipatria, CA 92233	5	291
S5	Schemnitz, S. D.	Dept. Fish & Wldf., New Mexico State Univ., Las Cruces, NM 88003	2	17
S8	Schempf, Philip F.	P. O. Box 021287, Juneau, AK 99802	2	131
S7	Schew, William A.	California State University, Long Beach, CA 90840	4	194
S15	Schmutz, Josef K.	Dept. of Biol., Univ. of Sask., Saskatoon, Saskatchewan S7N 0W0	11	638
S24	Scholes, Robert T.	P. O. Box 117, Rodeo, NM 88056	7	12
S41	Schroeder, Mark	Bartlett Cove, Gostavus, AK 99826	1	5
S3	Schultz, Lonnie L.	459-870 Garra Road, Janesville, CA 96114	1	7
S2	Schulz, Terry A.	UCD Raptor Center, Davis, CA 95616	14	142
S12	Sedgwick, James A.	6225 Ridgeview Lane, Fort Collins, CO 80524	1	179
S9	Sheldon-Hart Mt. NWR (Ken Voget)	P. O. Box 111, Lakeview, OR 97630	39	308
S20	Shirley, Dennis L.	1115 North Main, Springville, UT 84663	1	148
S40	Sillett, Allan J.	3315 Inverness Drive, Walnut Creek, CA 94598	35	416
S37	Simmons, Steve	2499 5th. Avenue, Merced, CA 95340	4	67
S27	Sisk, Thomas	Dept. Biological Sciences, Stanford, CA 94305	21	121
S26	Smith, E. Linwood	3030 N. Longhorn Drive, Tucson, AZ 85749	7	27
S4	Smith, Gregory P.	P. O. Box 2002, Morro Bay, CA 93442	54	625
S23	Smith, James A.	1857 Hwy 66, Moraine Rt., Estes Park, CO 80517	10	135
S31	Smith, Julia I.	Museum of Vert. Zool., Univ. of California, Berkeley, CA 94720	1	4
S25	Snyder, Mildred O.	161 Del Mar Circle, Aurora, CO 80011	19	68

S19	Solberg, John W.	P. O. Box 1686, Kearney, NE 68847	8	4695
S11	Spofford, Sally H.	Rancho-Aguila, P. O. Box J, Portal, AZ 85632	5	7
S30	Springer, Paul	Walter Warren House 38, Humboldt State Univ., Arcata, CA 95521	1	66
S36	Stacey, Peter B.	Dept. of Biology, Univ. of New Mexico, Albuquerque, NM 87131	3	38
S21	Staebler, Arthur E.	390 Pierce Dr., Clovis, CA 93612	4	31
S33	Stafford, Michael	4763 East Illinois, Fresno, CA 93702	2	2
S29	Stalmaster, Mark	209 23rd. Ave., Milton, WA 98354	1	38
S38	Starrett, Andrew	10601 Andora Ave., Chatsworth, CA 91311	19	169
S39	Stephens, D. A.	Dept. of Biol. Sci., Box 8007, ISU, Pocatello, ID 83209	24	191
S10	Stern, Mark	The Nature Conservancy, 1205 NW 25th, Portland, OR 97210	2	173
S34	Stiles, Donald J.	20 Lake Wapta Rise SE, Calgary, AB T2J 2M9	2	2416
S13	Stock, Charles E.	30646 Abraham Drive, Halsey, OR 97348	1	1
S32	Stoddard, J. W.	5711 Holladay Blvd., Salt Lake City, UT 84121	11	42
S22	Stroebele, Jerry	Selawik NWR, P. O. Box 270, Kotzebue, AK 99752	2	157
S1	Sturts, Shirley G.	E 4615 Fernan Lake Rd, Coeur D'alene, ID 83814	2	13
S16	Sullivan, Kim	Dept. of Biology, Utah State University, Logan, UT 84322	2	504
S14	Sundove, Meryl	376 Greenwood Beach Rd., Tiburon, CA 94920	5	48
S28	Swanson, David L.	Dept. of Zoology, Oregon State Univ., Corvallis, OR 97331	16	119
S6	Swem, Ted	Boise State University, Boise, ID 83725	15	332
S35	Swisher, Otis D.	P. O. Box 1582, Medford, OR 97501	5	17
T3	Tannenbaum, Bernice	3809 SW Idaho Terr., Portland OR 97221	1	12
T4	Thompson, Steve P.	Stillwater Waterfowl Management Area, Box 1236, Fallon, NV 89406	32	281
T5	Toffice, Gregory S.	5500 Phinney Ave., N., Seattle, WA 98103	1	2
T6	Truan, Jolan	4220 W. Diana Ave., Phoenix, AZ 85051	23	226
T2	Tuttle, Kenneth C.	457 E. Lakeview Drive, Elk Ridge, UT 84651	4	7
T1	Tweit, Robert C.	3116 N. Willow Creek Dr., Tucson, AZ 85712	16	595
T7	Tyler, Wm. Breck	Long Marine Lab, 100 Shaffer Rd., Santa Cruz, CA 95060	42	166
U1	Umatilla Refuges	P. O. Box 239, Umatilla, OR 97882	1	3187
U2	Univ. of Alberta (R. M. Chabaylo)	Dept. of Zoology, University of Alberta, Edmonton T6G 2E9	2	361
U3	Univ. of British Columbia	Dept. of Zoology, U.B.C., Vancouver, BC V6T 2A9	30	1332
V2	Voget, Ken	853 Millview, Lakeview, OR 97630	74	1411
V1	Vroman, Dennis P.	1102 NW A Street, Grants Pass, OR 97526	44	1163
W4	Waage, Bruce	3105 Arvin, Billings, MT 59102	2	16
W6	Waite, Thomas A.	Dept. Zoology, Ohio State Univ., 1735 Neil Ave., Columbus, OH 43210	1	19
W14	Wallen, Rick	P. O. Box 351, Moose, WY 83012	1	9
W2	Walters, P. M.	5111 Soledad Primera, Tucson, AZ 85718	71	3842
W5	Wasserman, Janet L.	1158 Beechwood St., Camarillo, CA 93010	18	438
W3	West, George C.	P. O. Box 841, Homer, AK 99603	1	290
W19	West, Steve	P. O. Box 2489, Carlsbad, NM 88220	12	1168
W10	Whitman, Jackson S.	c/o Alaska Dept. F&G, P. O. Box 230, McGrath, AK 99627	17	251
W8	Williams, Ralph B.	P. O. Box 32354, Juneau, AK 99803	18	736
W13	Williams, Sartor O., III	65 Verano Loop, Santa Fe, NM 87505	2	14
W12	Willopa NWR (J. B. Atkinson)	HC 01, Box 910, Ilwaco, WA 98624	3	10
W17	Wingfield, John C.	Dept. of Zoology NJ-15, Univ. of Washington, Seattle, WA 98195	4	219
W11	Winternitz, Barbara	Biology Department, Colorado College, Colorado Springs, CO 80903	1	1
W16	Wisniewski, Stephen J.	1712 Aspen Street, Ft. Collins, CO., 80524	21	110
W9	Wolf, Carl E.	Route 1, Box 104B, Worden, MT 59088	9	29
W7	Wood, Robert P.	P. O. Box 213, Moose, WY 83012	2	2
W18	Wright, Philip L.	Dept. Biol. Sci., Univ. of Montana, Missoula, MT 59812	7	58
W15	Wyoming Coop. Wldf. Res. Unit	P. O. Box 3166, Univ. Station, Univ. of Wyoming, Laramie, WY 82071	11	306
W1	Wyoming G & F Dept. (L. Serdiuk)	260 Buena Vista, Lander, WY 82520	5	714

# Commentary on the 1988 Annual Report

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A total of 479 banding reports was received for 1988, including 22 reports from subpermittees and 165 individuals or organizations who reported no banding with USFWS/CWS bands in the WBBA area. The number of active reports, 313, up slightly from 1987 and the 5-year mean (1983-1987) of 284.6 (see Table 1 below). This year's total of active banders reporting ranks third in the previous ten years (2 years tied with 361 active reports in 1979 and 1982). In fact, the number of active banders (or those who report bandings) in the WBBA area has steadily increased since it reached a 10-year low in 1983.

The number of birds banded in the WBBA area 178,020 reflects an increase of nearly 10,000 over last year's total and a 17% increase over the 5-year mean.

1986 since the devastating El Nino years of 1982 and 1983 (see Figure 1). The total number of full species banded (406) on the continent was down from the record-setting 1987 total of 414. We are, however, apparently continuing the trend of increasing numbers and species banded as noted by Desante (NABB vol. 13 no. 3) last year.

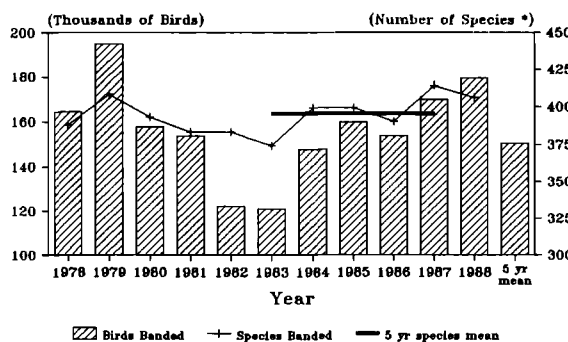
The number of birds banded per active bander in 1988 (567) is above the 1987 figure (555) and well above the 5 year mean of 528. In looking back over the previous ten years of banding activity it is interesting to note the higher figures achieved by banders in 1978-1980. Could this have been a recovery of populations following the "great western drought" of 1976-1977? The mean num-

**Table 1. Ten-year summary of banding activity in WBBA area**

	1979	1980	1981	1982	1983	1984	1985	1986	1987	5 yr mean 83-87	1988	10-yr Aver. 79-88
Number of active reports	361	282	314	361	238	276	299	304	306	285	313	306
Species banded*	408	393	383	383	374	399	399	390	414	395	406	395
Average species/bander	12	12	11	11	14	13	14	13	12	13	13	13

Only 1979 had a higher total number of birds banded in the past ten years. The number of birds banded has steadily increased (except for a slight decrease in

ber of species banded per active bander (12.7) was comparable to the previous years' figures. It is also interesting to note, however, that 60 banders (19% of active banders) banded only one species while 40 (13%) banded 25 species or more.



\* Continental birds, full species only

**Figure 1. Graphic representation of bird and species totals for the past ten years in the WBBA area.**

Major banding efforts in the Hawaii-Pacific Islands region and Alaska-Western Canada produced record high totals of 11,431 birds and 47,794 birds, respectively. California bandings were down slightly while most of the other regions in the WBBA area remained fairly constant.

Table 2 provides an analysis of bandings over the past five years as function of general types of birds banded. Waterfowl continue to be banded in large numbers with 1988 totals surpassing any of the previous five years. Mallards accounted for 58% (31,242) of the total for all waterfowl (53,573). A new record number (at least within the last five years) of raptors were banded in 1988 far above the previous high recorded in 1985.



**Table 2. Number of Birds Banded (% of Total) for Groups of Species**

	1983	1984	1985	1986	1987	5-yr mean	1988
Waterfowl (Anseriformes)	32516 (26.9)	41785 (28.3)	36482 (22.8)	40151 (26.1)	52577 (31.0)	40702 (27.0)	53573 (29.9)
Birds of Prey (Falconiformes & Strigiformes)	5243 (4.3)	6050 (4.1)	7478 (4.7)	6488 (4.3)	7366 (4.4)	6525 (4.3)	9590 (5.3)
Shorebirds, Gulls & Alcids (Charadriiformes)	8247 (6.8)	10588 (7.2)	17270 (10.8)	7262 (4.7)	13104 (7.7)	11294 (7.5)	14300 (8.0)
Pigeons & Doves (Columbiformes)	9494 (7.9)	15365 (10.4)	5332 (3.3)	2936 (1.9)	3009 (1.8)	7227 (4.8)	3175 (1.8)
Passerines (Passeriformes)	54440 (45.0)	62922 (42.6)	79548 (49.8)	79092 (51.5)	79906 (47.0)	71182 (47.3)	83103 (46.3)
Wood-warblers (% of passerines)	4776 (8.8)	5697 (9.1)	6074 (7.6)	6746 (8.5)	5105 (6.4)	5680 (7.9)	6082 (7.3)
All Other Birds	10996 (9.1)	11095 (7.5)	13728 (8.6)	17725 (11.5)	13731 (8.0)	13455 (8.9)	15585 (8.7)
<b>TOTAL</b>	<b>120936</b>	<b>147805</b>	<b>159838</b>	<b>153654</b>	<b>169683</b>	<b>150385</b>	<b>178020</b>

Notable numbers of Sharp-shinned and Cooper's Hawks were banded in 1988 and the intense interest in the Spotted Owl produced record numbers of that species as well.

Banding of Charadriiformes in 1988 was again above the previous 5-year mean in absolute numbers as well percent of total birds banded and second only to 1985 totals. Bandings of pigeons and doves were again well below the 5-year mean and up only slightly in absolute numbers from last year. There appears to be a continuing decline either in interest on the part of banders to focus on columbiformes populations or a genuine decline in western populations.

A six-year record high number of passerines was banded in 1988 although the percent of total birds banded was lower than the 5-year mean and lower than many of the previous years' percentages. Most of the questions raised by DeSante in last year's commentary relating to population trends, whether real or artifacts of banding effort, remain unanswered. Wood-warbler numbers increased from 1987 to 1988 although this group's representation (as a percentage of overall passerines banded) remained relatively low.

In summary, banding in the WBBA area appears to be rising again to the levels of the late 1970's both in

terms of numbers of active banders and numbers and types of birds banded.

Dave DeSante, in last year's commentary, pointed out the necessity of "rigorously standardized" banding studies to determine if perceived trends in banding statistics are related to actual population trends in birds. This year as I look at the steadily increasing numbers of banders and birds banded I cannot help but wonder if this is not, in part, a result of an intense effort (including providing self-addressed stamped envelopes) to get banders to contribute their data to the annual report. I hope that if this is indeed a real upward trend we will see more publications of banding results and more focus on long-term biomonitoring programs such as those being pursued by several North American bird observatories.

I would like to thank CCRS members Pat Gordon, Dick Mewaldt, Fran Mewaldt, Syndie Meyer, Helen Le, and Craig Kuziel for their diligent efforts in data entry and editing. Bob Johnson, of B.C. Software, developed the R-BASE application program which was so valuable for data entry.

This is CCRS contribution number 2.