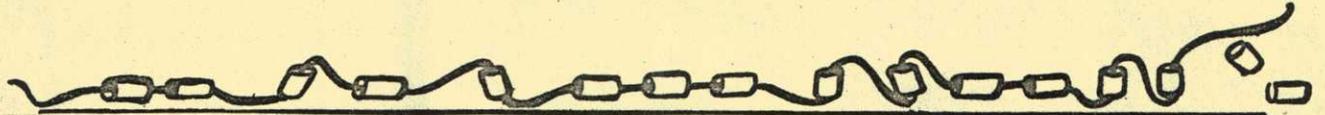


BIRD BANDING NOTES

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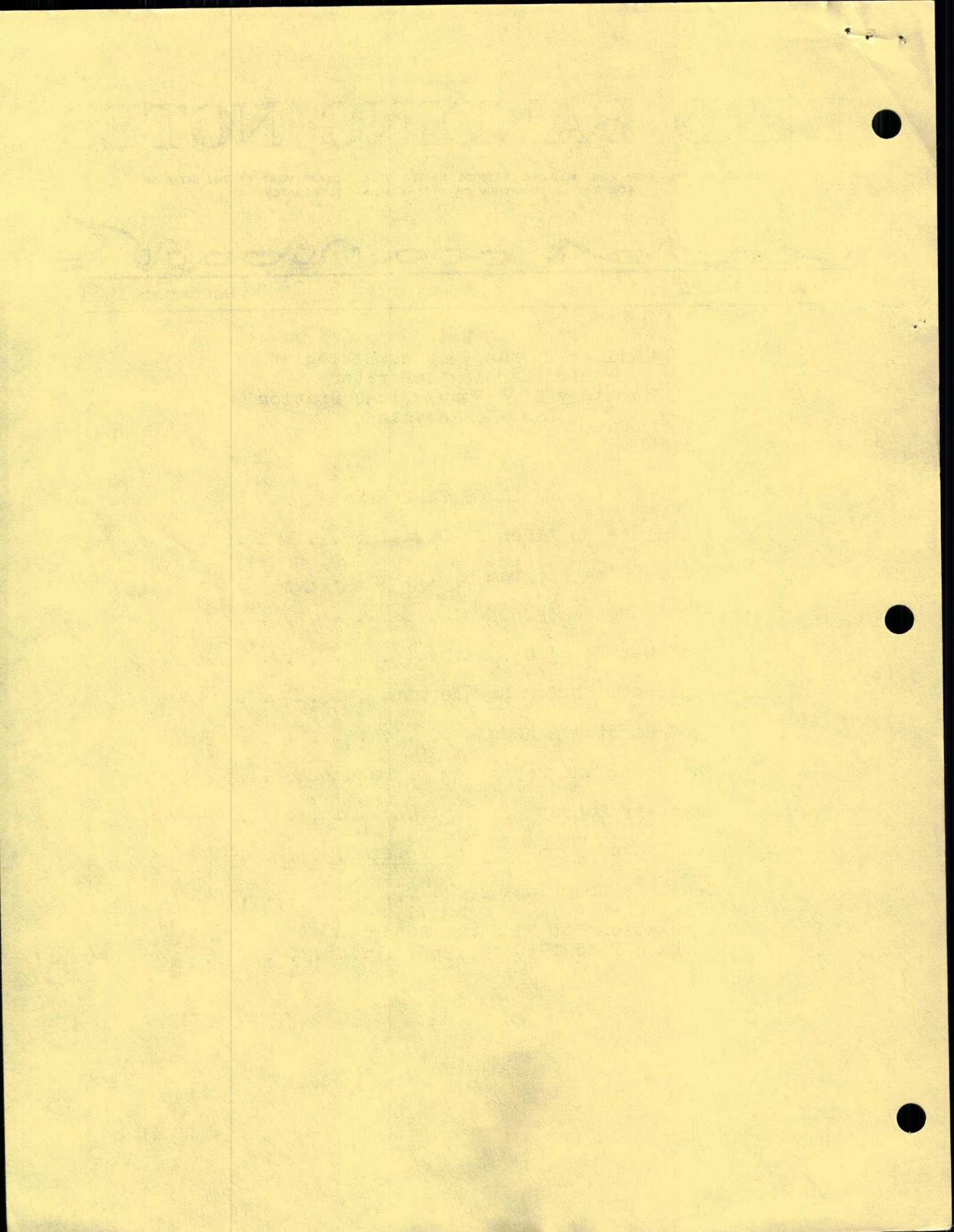
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A TRIBUTE TO ALLEN J. DUVALL

The Bird Banding Laboratory Staff wishes to take this opportunity to formally express our thanks and appreciation to Mr. Duvall for the leadership he has given to the laboratory for the past ten years. During his tenure in office he has guided us through some of the most difficult crises the program has ever experienced. Adapting a workable system to a rapidly expanding program has been a difficult and an absorbing problem for many years. In addition, the destructive fire of 1959 added untold burdens to every phase of the operation and still plagues us in many ways today.

As Mr. Duvall assumes his position with the Pesticides Review Board, we send with him our most sincere thanks and best wishes for the coming years.*

THE BANDING PROGRAM

Tremendous changes have occurred in the banding program since the last issue of Bird Banding Notes was published. The greatly expanded program of banding, naturally, has increased the burden upon our staff for handling the documents and data coming into the Laboratory.

It is interesting to note that in fiscal year 1950 a total of 753,303 bands were issued. In the fiscal year ending June 30, 1964, a total of 2,443,322 bands were issued. The number of issues for subsequent months have continued to maintain this upward trend, and special banding projects now being carried out should send the total of bands issued far beyond that previously reached for a particular year (e.g. 442,678 for August 1964).

During the calendar year of 1963 over 45,600 recovery reports were received; this compares with approximately 15,900 received during 1950. In the span of years between these two dates the number of recoveries has steadily increased although the total dropped slightly between 1959 and 1962.

During the banding year ending April 30, 1950, approximately 350,000 bandings were reported. During the past calendar year (1963) over 800,000 birds were banded. In the current year one project alone has already banded more than 276,000 birds.

*Present address: Patuxent Wildlife Research Center, Laurel, Maryland

With these figures in mind there seems little necessity to emphasize the added stress that has been placed upon the Banding Laboratory staff to handle all phases of the operation. Many changes have been made during these years in an attempt to streamline the flow of material and enable us to handle this increase.

Naturally, along with the increased volume of banding, we have also received a corresponding increase in the accumulation of valuable data. Each year new age records are being set. This year a Herring Gull was reported which had reached the age of 31 years. Without doubt some of the Pacific projects, in their work with long-lived oceanic birds, will turn up records exceeding this.

Recoveries from other continents are forming an interesting pattern. Each year more and more Russian Bands (mostly on waterfowl) are being recovered in the U.S. and many of our bands are being reported from Russia. Recently some Japanese bands were also reported from Alaska. We look forward to a greater exchange with these two countries as their banding programs develop.

PERMIT RENEWAL

All non-game Bird Banding Permits are now issued for a 2-year period. It is the responsibility of each bander to check the expiration date on his permit and initiate a request for renewal. Such requests can be made by letter approximately 30 days before the permit expires. A statement should be included concerning any special authorizations given on the past permit so that we may evaluate their need for inclusion on the new permit. Currently, as stated in the Banding Manual, banding is authorized in States, other than the State of residence, only if adequate justification is given. All requests for permit renewal should be sent directly to the Bird Banding Laboratory, Laurel, Maryland.

MIST NET PERMITS

Special skill and training is deemed necessary for using Japanese mist nets. Therefore, permits for the use of nets can be given only after the bander has had previous experience with their use. Verification of this training should be forwarded to us from the party with whom the bander has worked.

APPLICATIONS FOR NEW PERMITS

The evaluation of banding permit applicants continues to be a very difficult phase of our operation. The addition of new banders to a heavily loaded program demands that the highest standards be maintained. Individuals who are not fully qualified or who lack the time or ability to keep and prepare adequate records add an increased pressure to our work load. We feel, therefore, that even more rigid standards should be sought, and we hope that much of the burden of this evaluation can be placed upon the banders who act as references. It is hoped that every bander, who is requested to furnish a reference, will give as critical an appraisal as possible. If you feel that the individual is not yet qualified, do not hesitate to suggest the need for additional study. In the long run, it is your program that will benefit from this action. If you, as a bander, encourage another person to apply for a permit, we would welcome advance news from you concerning this fact, giving details that may assist us in giving an early appraisal.

1964 BANDING SCHEDULES

All non-game bird banders are reminded that 1964 records are due on or before January 31, 1965. If no bandings were made during the year, notification of this fact is also desired.

Banders are urged to carefully check each document for completeness and accuracy before sending in their records. We continue to spend many hours of clerical time checking and correcting errors in the band numbers reported and, in addition, much unnecessary correspondence with individual banders is often required before documents can be processed.

Before sending in your Banding Schedules, please compare them with the example schedule on page B-1291 of the Banding Manual to assure that your documents are properly completed.

The road maps which were sent with the 1963 schedules have been of great value to us in the accurate determination of banding station coordinates. Therefore, banders are again asked to include a portion of a road map, upon which the banding sites are marked, with their 1964 records.

THE USING AND REPORTING OF BANDS

With the use of the present Banding Schedule it becomes

increasingly important that banders use bands in proper numerical sequence. Schedules are filed in numerical order and it is difficult to interfile schedules for numbers used out of sequence. It is also difficult for us to record the use of such bands. Those individuals banding a limited number of birds are requested to work from only one series of 100 bands (per size) at a time to help reduce the quantity of forms resulting when a few bands are used from several series. It should also be kept in mind that only numbers with the same prefix and within the same series of bands can be reported on a particular sheet.

"MYSTERY BANDS"

1. This past fall we received a very worn band taken from a Semi-palmated Sandpiper on the East Coast. The band was so badly worn that we are unable to read the complete number. We would be pleased to hear from any bander who used LB bands on this species, giving us a list of the numbers used.

2. We recently received a recovery of a hawk banded with number 636-49001. Would the bander who used this number please contact us as the issue slip for this band is missing from our files.

THE USE OF BIRD BANDING NOTES

It is hoped that Bird Banding Notes can serve as a medium of exchange between Banders and the Banding Laboratory (and also between Banders) for any problems that may arise affecting many participants. Individuals who wish to take advantage of this source of contact are invited to write us concerning points they may wish to include in future issues.

* * * * *

SEASON'S GREETINGS

The entire Staff of the Bird Banding Laboratory extends to you all our most sincere good wishes for a joyous holiday season. We deeply appreciate the cooperation we have received during the past and look forward to its continuance in 1965.

TABULATIONS OF BANDINGS REPORTED
EACH BANDING YEAR 1950 TO 1953

In the last issue of Bird Banding Notes the late Seth H. Low presented a tabulation of bandings reported from 1942 to 1949. Subsequent to this Mr. Low prepared a similar listing for the birds banded from 1950 to 1953. This listing included a grand total for all the birds previously banded, and, in addition, the number of recoveries then on file for each individual species. We are pleased to be able to present this compilation here. Tabulations of data from more recent years will be listed in subsequent issues.

It should be emphasized that the figures do not necessarily represent the number of birds actually banded in a given year. The figures were tabulated under the year that the schedules were received which was not necessarily the year of banding. All previously published tables have been prepared on the same basis.

It will be noted that the following list is not in taxonomic order according to the Fifth Edition of the AOU Check-list but is in the numerical order assigned to each species. This is the basis upon which the files and records are maintained in the Bird Banding Laboratory.

In the following table the column headed Ret. & Rec. gives a card count of the total number of returns and recoveries received through 1953. Subsequent checks of these cards to eliminate duplicate and invalid reports may, in some cases, have resulted in a smaller number currently on file than are reported here.

Note: Before June 30, 1948, the Bird Banding Laboratory operated on a fiscal year that ran from July 1 through April 30. For the next 5 years, through April 30, 1954, the banding year ended on April 30. Since January 1, 1955, the banding year has coincided with the calendar year.

TOTALS OF BANDINGS REPORTED EACH YEAR 1950 TO 1953.

<u>1950</u>	<u>1951</u>	<u>1952</u>	<u>1953</u>	<u>Grand Total</u>	<u>Ret. & Rec.</u>
361,996	386,036	413,949	472,394	7,038,958	544,292

FOUR-YEAR SUMMARY OF NEW BANDINGS REPORTED EACH YEAR

<u>Species</u>	<u>1950</u>	<u>1951</u>	<u>1952</u>	<u>1953</u>	<u>Grand Total</u>	<u>Ret. & Rec.</u>
Western Grebe	1	2	0	0	71	4
Red-necked Grebe	3	3	5	6	103	7
Horned Grebe	6	27	73	40	444	8
Eared Grebe	99	22	101	64	714	11
Pied-billed Grebe	19	98	21	21	565	18
Common Loon	4	1	10	2	221	27
Pacific Loon	0	1	0	2	5	0
Red-throated Loon	0	1	1	2	24	3
Tufted Puffin	0	0	0	0	7	0
Common Puffin	5	14	0	0	446	25
Horned Puffin	0	0	0	0	7	0
Rhinoceros Auklet	0	0	0	0	2	0
Cassin's Auklet	0	0	0	0	18	0
Parakeet Auklet	0	0	0	0	5	0
Crested Auklet	0	2	0	0	3	0
Least Auklet	0	2	0	0	2	0
Marbled Murrelet	0	0	0	0	2	0
Xantus' Murrelet	0	0	0	0	2	0
Black Guillemot	0	16	7	6	1498	64
Pigeon Guillemot	0	1	1	58	130	0
Common Murre	0	0	1230	1211	7658	467
Thick-billed Murre	0	2	2	198	293	24
Razorbill	1	0	9	53	1129	66
Dovekie	2	1	1	1	104	9
Pomarine Jaeger	0	0	0	20	20	0
Parasitic Jaeger	1	0	0	0	2	0
Long-tailed Jaeger	0	0	0	0	8	0
Black-legged Kittiwake	0	7	0	25	36	0
Glaucous Gull	0	11	0	3	286	3
Glaucous-w. Gull	2005	493	308	821	9854	492
Great Black-b. Gull	57	336	264	277	4396	216
Western Gull	0	0	0	1	5946	595
Herring Gull	8503	11152	7980	7104	234504	10450
California Gull	2697	348	410	648	32226	772
Ring-billed Gull	8692	7686	5407	4838	96986	2292
Mew Gull	1	0	43	3	57	0
Heermann's Gull	0	1	2	0	3	0
Laughing Gull	580	2046	1725	2670	31345	279
Franklin's Gull	12	7	1	52	33438	161
Bonaparte's Gull	1	2	1	0	19	2
Sabine's Gull	0	0	0	1	8	0
Gull-billed Tern	114	18	16	5	248	3
Caspian Tern	453	716	909	811	20276	357
Royal Tern	387	604	0	0	19246	461
Cabot's Tern	0	9	0	0	90	0

	<u>1950</u>	<u>1951</u>	<u>1952</u>	<u>1953</u>	<u>Grand Total</u>	<u>Ret. & Rec.</u>
Forster's Tern	2	22	311	38	1230	6
Common Tern	19747	8588	18308	19723	434785	44234
Arctic Tern	1761	2505	35	50	12199	203
Roseate Tern	4660	1460	2927	3780	76494	573
Least Tern	356	436	231	312	8662	40
Sooty Tern	399	957	1267	0	22182	213
Bridled Tern	0	0	1	10	12	0
Black Tern	60	61	74	59	2251	2
Noddy Tern	0	234	3	16	3094	156
Fairy Tern	0	0	6	0	440	0
Black Skimmer	797	573	704	830	16189	107
Black-footed Albatross	13	5	907	0	1698	93
Laysan Albatross	231	33	515	0	1973	194
Fulmar	0	0	0	30	31	0
Christmas Is. Shearw.	0	0	0	0	253	5
Audubon's Shearwater	0	0	55	2	130	0
Sooty Shearwater	0	1	2	1	6	0
Wedge-t. Shearwater	0	0	0	0	7790	838
Bonin Is. Shearwater	0	0	0	0	600	0
Phoenix Is. Shearwater	0	0	0	0	127	0
Bulwer's Petrel	0	0	0	0	232	4
Fork-tailed Petrel	0	1	2	0	9	0
Leach's Petrel	25	152	9	158	4758	168
Black Petrel	0	0	0	0	3	1
Ashy Petrel	0	0	0	0	38	0
Wilson's Petrel	0	0	0	0	14	0
White-t. Tropic-bird	0	0	39	68	109	0
Red-t. Tropic-bird	0	0	38	0	1794	28
Blue-faced Booby	0	0	0	9	993	97
Brown Booby	0	0	0	0	795	3
Red-footed Booby	281	233	0	0	2632	92
Gannet	249	40	134	160	1828	48
Anhinga	17	0	14	6	1648	46
European Cormorant	0	0	0	0	1802	143
Double-c. Cormorant	306	891	870	854	17793	2290
Guanay Cormorant	1999	35000	9000	17900	90716	193
Mexican Cormorant	0	0	0	0	126	0
Brandt's Cormorant	0	0	0	0	208	9
Pelagic Cormorant	0	6	0	25	97	4
White Pelican	739	503	724	657	11482	908
Brown Pelican	14	683	49	125	9525	933
Peruvian Brown Pel.	500	8000	0	3500	26910	82
Peruvian Booby	500	-	-	-	2009	48
Mag. Frigate-bird	0	1	0	0	1132	4
American Merganser	5	34	47	50	482	61

	<u>1950</u>	<u>1951</u>	<u>1952</u>	<u>1953</u>	<u>Grand Total</u>	<u>Ret. & Rec.</u>
Red-br. Merganser	9	4	4	0	107	8
Hooded Merganser	1	2	9	6	116	20
Mallard	75745	56802	66433	58808	626210	92938
Black Duck	14506	11549	13500	15067	175313	32323
New Mexican Duck	2	1	0	1	10	1
Mottled Duck	252	50	15	6	863	88
Gadwall	869	646	1373	622	11367	1988
European Widgeon	2	0	0	1	14	7
Baldpate	3099	2225	2567	3696	33134	4282
Green-winged Teal	3082	5610	5977	7087	69153	4906
Blue-winged Teal	8331	10839	12448	17975	108630	5304
Cinnamon Teal	506	632	751	740	5636	224
Shoveler	693	362	826	1051	9403	902
Pintail	25735	22597	33353	40233	317156	45971
Wood Duck	2084	3635	2678	3117	25706	2798
Redhead	3107	3180	3597	2717	30410	4629
Canvasback	562	329	654	537	8834	982
Greater Scaup	190	282	119	180	3721	438
Lesser Scaup	6395	5048	5208	5005	23633	8049
Ring-necked Duck	757	393	305	738	25176	4412
American Golden-eye	20	31	221	12	1052	99
Barrow's Golden-eye	1110	827	1209	1287	4889	582
Bufflehead	313	357	341	346	2285	216
Oldsquaw	1	0	2	1	27	2
Harlequin Duck	0	0	0	0	10	0
Steller's Eider	10	0	1	0	22	2
Spectacled Eider	7	66	1	15	102	1
Common Eider	0	5	7	3	87	3
King Eider	0	0	0	2	3	1
American Scoter	1	0	0	1	6	1
White-winged Scoter	0	7	23	27	168	9
Surf Scoter	2	0	0	2	9	0
Ruddy Duck	63	199	138	60	1483	57
Snow Goose	28	27	936	3695	5052	464
Blue Goose	113	52	131	1786	3232	267
Ross' Goose	33	3	0	7	54	0
White-fronted Goose	129	170	439	428	1479	188
Canada Goose	4674	8254	9383	1558	55816	11191
Brant	2	0	0	0	2	0
Black Brant	382	2455	2707	2740	8306	463
Barnacle Goose	0	0	0	0	4	0
Hawaiian Goose	7	0	11	6	24	0
Emperor Goose	54	241	74	53	501	11
Fulvous Tree Duck	7	76	148	34	328	19
Whistling Swan	0	13	6	6	129	14

	<u>1950</u>	<u>1951</u>	<u>1952</u>	<u>1953</u>	<u>Grand Total</u>	<u>Ret. & Rec.</u>
Trumpeter Swan	55	24	9	17	137	10
Roseate Spoonbill	0	0	0	0	68	4
White Ibis	0	262	126	0	625	8
Glossy Ibis	0	0	0	0	19	0
White-f. Glossy Ibis	4	4	754	805	1728	42
Wood Ibis	0	0	0	0	114	7
American Bittern	24	22	14	12	735	44
Least Bittern	13	40	32	32	457	3
Great White Heron	0	0	0	0	2	0
Great Blue Heron	179	211	172	551	5699	471
American Egret	66	26	81	43	7358	288
Snowy Egret	40	165	178	725	6204	80
Reddish Egret	0	0	0	0	443	38
Louisiana Heron	79	85	119	80	6623	78
Little Blue Heron	254	93	488	143	13171	203
Green Heron	52	109	161	56	2428	28
Black-cr. Night Heron	334	532	513	418	19997	750
Yellow-cr. Night Heron	4	0	3	0	204	5
Whooping Crane	1				1	0
Sandhill Crane	3	6	6	2	45	5
King Rail	97	16	5	19	211	4
Clapper Rail	31	286	747	18	1319	54
Virginia Rail	20	18	69	86	526	0
Sora	21	52	84	94	632	8
Yellow Rail	1	0	0	1	20	0
Black Rail	0	0	0	0	14	0
Purple Gallinule	0	6	0	0	140	2
Florida Gallinule	62	53	90	23	2576	139
American Coot	2155	3406	1613	3322	44990	4324
Red Phalarope	1	0	8	3	31	0
Northern Phalarope	0	0	0	0	32	0
Wilson's Phalarope	0	3	0	2	148	0
Avocet	9	8	6	0	352	2
Black-necked Stilt	81	1	3	0	300	4
American Woodcock	381	863	1438	983	5190	199
Wilson's Snipe	33	23	34	136	1099	34
"Dowitcher"	0	0	9	8	417	4
Stilt Sandpiper	0	0	0	2	111	0
American Knot	0	0	0	1	16	2
Purple Sandpiper	0	0	1	0	9	0
Pectoral Sandpiper	0	8	3	7	450	1
White-r. Sandpiper	0	0	0	1	113	0
Baird's Sandpiper	0	6	35	10	86	0
Least Sandpiper	11	47	152	76	6729	170
Dunlin	1	5	31	13	330	3

	<u>1950</u>	<u>1951</u>	<u>1952</u>	<u>1953</u>	<u>Grand Total</u>	<u>Ret. & Rec.</u>
Semipalmated Sandpiper	2	184	1063	120	11966	91
Western Sandpiper	4	0	207	10	2091	4
Sanderling	4	0	3	2	310	2
Marbled Godwit	4	0	23	20	255	6
Bar-tailed Godwit	0	0	0	0	2	0
Hudsonian Godwit	0	0	0	0	4	0
Greater Yellowlegs	3	5	13	9	313	6
Lesser Yellowlegs	3	1	5	10	762	5
Solitary Sandpiper	5	3	14	3	220	0
Willet	9	2	30	11	428	4
Wandering Tattler	0	0	0	0	5	0
Upland Plover	1	8	9	8	228	2
Buff-breasted Sandp.	0	0	0	0	2	0
Spotted Sandpiper	47	108	116	70	4140	38
Long-billed Curlew	0	3	6	4	94	3
Hudsonian Curlew	0	0	1	0	20	1
Black-bellied Plover	1	4	1	0	22	2
Am. Golden Plover	0	0	17	2	36	1
Killdeer	110	207	131	151	4145	42
Semipalmated Plover	0	21	54	12	588	1
Piping Plover	159	150	15	44	2146	284
Snowy Plover	3	0	8	1	31	0
Wilson's Plover	0	0	6	0	95	2
Mountain Plover	0	0	0	0	10	0
Surfbird	1	0	0	0	1	0
Ruddy Turnstone	2	12	21	8	92	3
Black Turnstone	0	0	0	1	14	0
American Oystercatcher	3	6	1	3	66	1
Black Oystercatcher	0	1	0	0	10	0
Hungarian Partridge	0	0	1	0	664	16
Chukar	0	0	0	0	134	2
Bobwhite	613	893	771	246	23908	1299
Mountain Quail	0	0	27	4	142	5
Scaled Quail	0	0	0	29	213	7
California Quail	39	163	329	154	6681	215
Gambel's Quail	3	0	37	3	2398	443
Blue Grouse	0	0	0	4	21	0
Spruce Grouse	0	0	0	0	6	1
Franklin's Grouse	0	0	0	0	4	0
Ruffed Grouse	11	40	8	29	428	28
Willow Ptarmigan	0	0	0	0	25	1
Rock Ptarmigan	0	0	0	0	7	0
Gr. Prairie Chicken	0	1	0	0	359	9
Lsr. Prairie Chicken	0	0	0	0	373	15
Sharp-tailed Grouse	5	2	0	0	1789	252

	<u>1950</u>	<u>1951</u>	<u>1952</u>	<u>1953</u>	<u>Grand Total</u>	<u>Ret. & Rec.</u>
Sage Grouse	10	0	13	0	66	0
Ring-necked Pheasant	98	116	26	26	2175	69
Turkey	69	1	20	0	1253	15
Band-tailed Pigeon	142	157	240	970	2087	72
White-crowned Pigeon	0	174	124	99	512	28
Chinese Spotted Dove	14	7	21	3	2067	135
Ringed Turtle Dove	57	1	0	0	99	1
Mourning Dove	14281	17935	21405	19338	118046	7062
Zenaida Dove	6	47	29	0	82	8
White-winged Dove	83	95	1476	1320	4948	298
Ground Dove	29	30	13	38	1619	161
Inca Dove	73	93	78	97	2334	536
California Condor	0	0	0	0	2	1
Turkey Vulture	83	16	13	17	1399	114
Black Vulture	19	0	0	604	23307	4124
White-tailed Kite	9	2	1	2	92	10
Mississippi Kite	4	5	3	25	47	0
Everglade Kite	0	0	0	0	16	0
Marsh Hawk	77	55	80	52	2400	345
Sharp-shinned Hawk	28	20	37	151	950	49
Cooper's Hawk	72	63	67	79	1701	218
Goshawk	1	8	7	7	112	22
Harris' Hawk	0	0	0	2	4	0
Red-tailed Hawk	93	95	153	150	2123	478
Red-shouldered Hawk	50	50	64	73	1321	242
Zone-tailed Hawk	0	0	0	0	2	0
White-tailed Hawk	0	0	0	0	10	0
Swainson's Hawk	2	11	8	23	519	80
Broad-winged Hawk	20	14	12	21	350	36
Rough-legged Hawk	1	13	2	48	223	38
Ferruginous Hawk	5	34	0	9	468	74
Golden Eagle	12	18	8	17	251	31
Bald Eagle	54	49	26	29	1840	166
Gyr Falcon	0	0	0	10	10	0
Prairie Falcon	10	17	14	19	462	85
Duck Hawk	42	74	28	82	753	102
Pigeon Hawk	9	2	6	15	171	11
Sparrow Hawk	195	167	171	228	3424	217
Caracara	0	0	0	0	28	1
Osprey	135	150	135	116	3293	358
Barn Owl	115	97	190	243	2952	400
Long-eared Owl	26	24	29	33	759	30
Short-eared Owl	5	6	1	15	270	9
Barred Owl	23	16	19	14	415	67
Spotted Owl	0	0	0	0	7	0

	<u>1950</u>	<u>1951</u>	<u>1952</u>	<u>1953</u>	<u>Grand Total</u>	<u>Ret. & Rec.</u>
Great Gray Owl	0	0	0	0	2	0
Richardson's Owl	0	0	1	0	15	0
Saw-whet Owl	185	83	85	112	850	16
Screech Owl	184	229	285	397	4246	424
Great Horned Owl	70	139	117	120	1752	267
Snowy Owl	9	3	14	12	193	27
Hawk Owl	0	1	0	0	4	0
Burrowing Owl	3	6	20	25	1055	52
Pygmy Owl	1	0	3	0	11	0
Elf Owl	0	0	0	0	1	0
Smooth-billed Ani	0	0	0	0	44	1
Road Runner	1	5	17	11	130	7
Yellow-billed Cuckoo	12	12	26	28	632	7
Black-billed Cuckoo	17	17	5	25	769	1
Belted Kingfisher	188	28	37	23	1342	47
Ivory-billed Woodpkr	0	0	0	0	1	0
Hairy Woodpecker	72	81	139	130	2418	465
Downy Woodpecker	544	505	797	687	12716	274
Ladder-backed Woodpkr	0	0	0	0	10	0
Nuttall's Woodpecker	0	1	0	0	28	0
White-headed Woodpkr	1	1	4	4	47	0
Black-backed Three-toed	0	5	0	0	11	0
Northern Three-toed	0	0	0	0	14	0
Yellow-b. Sapsucker	23	24	11	23	1224	14
Red-b. Sapsucker	0	1	1	0	2	1
Williamson's Sapsucker	0	0	0	0	7	0
Pileated Woodpecker	0	4	6	1	51	7
Red-headed Woodpecker	24	25	26	18	2374	193
California Woodpecker	1	2	0	9	122	6
Lewis' Woodpecker	0	0	0	0	53	1
Red-bellied Woodpkr	57	57	53	47	1191	223
Golden-fr. Woodpecker	0	0	0	0	2	1
Gila Woodpecker	2	5	6	1	131	11
Yellow-s. Flicker	209	323	276	374	14604	481
Red-shafted Flicker	49	36	50	36	892	49
Gilded Flicker	0	0	2	0	24	0
Chuck-will's-widow	1	2	1	0	25	0
Whip-poor-will	2	9	2	5	104	5
Poor-will	2	0	3	2	13	0
Common Nighthawk	43	13	30	25	701	23
Texas Nighthawk	0	0	0	0	45	1
Black Swift	0	5	0	0	5	0
Chimney Swift	9795	9531	13496	18693	489103	22268
Vaux's Swift	0	0	0	0	6	0
White-th. Swift	0	0	0	0	6	0

	<u>1950</u>	<u>1951</u>	<u>1952</u>	<u>1953</u>	<u>Grand Total</u>	<u>Ret. & Rec.</u>
Ruby-th. Hummingb.	2	6	17	10	239	7
Black-c. Hummingb.	0	0	0	0	1	0
Anna's Hummingbird	0	0	0	0	8	0
Broad-t. Hummingb.	0	0	0	0	2	0
Rufous Hummingbird	0	0	0	0	8	0
Scissor-t. Flycatcher	0	2	5	38	105	0
Eastern Kingbird	23	59	63	57	3139	27
Gray Kingbird	0	0	0	0	1	0
Arkansas Kingbird	4	3	15	21	1890	16
Cassin's Kingbird	0	0	0	0	8	1
Gr. Crested Flycatcher	43	60	70	74	1248	40
Wied's Crested Fly.	0	0	0	0	23	0
Ash-throated Fly.	0	0	3	5	103	2
Olivaceous Flycatcher	0	0	0	0	1	0
Eastern Phoebe	359	375	298	491	13619	139
Say's Phoebe	9	0	13	27	900	35
Black Phoebe	20	12	22	31	512	4
Olive-s. Flycatcher	0	2	0	0	55	0
E. Wood Pewee	8	5	36	68	532	9
W. Wood Pewee	2	1	10	0	93	0
Yellow-b. Flycatcher	8	10	7	13	370	2
Western Flycatcher	15	9	13	3	256	3
Acadian Flycatcher	1	0	7	10	168	1
Alder Flycatcher	7	35	41	86	929	5
Least Flycatcher	27	29	28	50	1682	14
Hammond's Flycatcher	1	0	0	0	20	0
Dusky Flycatcher	0	1	0	0	17	0
Vermilion Flycatcher	0	0	0	0	27	0
Horned Lark	97	133	236	65	4483	79
American Magpie	36	51	57	29	1882	132
Yellow-b. Magpie	0	2	3	1	26	1
Blue Jay	3342	3508	3382	3895	76494	11679
Steller's Jay	42	76	35	55	2181	199
Scrub Jay	106	171	118	91	3314	324
Mexican Jay	0	0	0	0	21	1
Green Jay	0	0	0	0	2	0
Gray Jay	14	27	42	14	422	116
Common Raven	13	18	13	9	226	15
White-necked Raven	0	0	14	1	878	132
Common Crow	197	179	127	157	9850	1318
Fish Crow	0	0	0	0	633	48
Clarke's Nutcracker	0	165	38	70	608	56
Piñon Jay	0	0	0	0	60	1
Starling	4763	6153	4991	4889	165205	8625
Bobolink	62	52	2	20	851	3

	<u>1950</u>	<u>1951</u>	<u>1952</u>	<u>1953</u>	<u>Grand Total</u>	<u>Ret. & Rec.</u>
Brown-h. Cowbird	2827	5067	4574	8046	83454	4927
Bronzed Cowbird	0	0	1	0	19	0
Yellow-h. Blackbird	302	205	60	49	5760	57
Redwinged Blackbird	1485	3700	4874	6390	77093	4550
Tricolored Blackbd.	65	0	1	0	20813	130
E. Meadowlark	163	302	119	83	5261	132
W. Meadowlark	8	0	0	77	1364	41
Audubon's Oriole	0	0	0	0	2	0
Scott's Oriole	0	0	0	0	14	0
Hooded Oriole	10	14	18	46	1421	45
Orchard Oriole	32	32	27	74	1671	64
Baltimore Oriole	202	319	176	266	8414	448
Bullock's Oriole	86	13	50	64	1816	173
Rusty Blackbird	49	44	29	91	6594	232
Brewer's Blackbird	555	246	405	236	9502	689
Purple Grackle	5960	8282	11532	4524	170615	13201
Boat-tailed Grackle	16	211	112	34	10378	358
Evening Grosbeak	8490	1031	8554	9787	44742	3160
Pine Grosbeak	5	11	61	3	716	5
Purple Finch	4816	13471	4766	14050	156894	14262
Cassin's Finch	1	68	76	2	541	3
House Finch	1211	1066	1643	1591	78744	5871
Red Crossbill	1	40	19	9	2495	26
White-winged Cross.	5	0	0	26	294	5
Gray-cr. Rosy Finch	118	0	47	11	967	15
Black-cr. Rosy Finch	0	0	13	51	70	0
Brown-c. Rosy Finch	0	0	11	0	11	0
European Goldfinch	0	0	0	1	3	0
Hoary Redpoll	9	35	0	165	500	5
Common Redpoll	367	973	122	2169	22339	88
American Goldfinch	2038	1113	3352	3116	38604	1859
Lesser Goldfinch	30	29	20	11	3829	38
Lawrence's Goldfinch	26	1	0	1	168	0
Pine Siskin	139	210	326	7431	21345	279
Snow Bunting	125	26	447	619	7134	230
McKay's Bunting	0	0	0	0	2	0
Lapland Longspur	17	36	230	445	3089	17
Smith's Longspur	0	0	0	0	5	0
Chestnut-c. Longspur	0	3	0	0	117	3
McCown's Longspur	0	1	0	3	55	0
Vesper Sparrow	107	140	136	224	6207	418
Ipswich Sparrow	0	0	0	0	10	0
Savannah Sparrow	535	334	451	692	18892	393
Baird's Sparrow	0	1	0	0	41	0
Grasshopper Sparrow	51	22	104	137	1084	15

	<u>1950</u>	<u>1951</u>	<u>1952</u>	<u>1953</u>	<u>Grand Total</u>	<u>Ret. & Rec.</u>
Henslow's Sparrow	3	8	2	6	266	3
LeConte's Sparrow	4	0	0	3	76	0
Sharp-tailed Sparrow	5	3	6	6	176	1
Seaside Sparrow	0	12	53	6	213	0
Dusky Seaside Sparrow	0	0	0	14	14	0
Lark Sparrow	35	31	59	64	1249	40
Harris' Sparrow	603	468	476	998	42644	439
White-cr. Sparrow	3344	3510	3885	7158	138276	8960
Golden-cr. Sparrow	831	932	1506	1064	30087	5764
White-th. Sparrow	9806	9791	4892	10677	318887	4896
Tree Sparrow	4150	2480	3065	4657	102115	9297
Chipping Sparrow	1914	1848	2326	2236	68950	6787
Clay-colored Sparrow	282	121	107	244	11051	96
Brewer's Sparrow	39	2	4	0	259	5
Field Sparrow	1007	660	997	1452	23753	1534
Worthen's Sparrow	0	0	0	0	1	0
Black-chinned Sparrow	0	0	0	0	9	0
White-winged Junco	20	60	27	51	1108	102
Junco (Sl. + Ore.)	12675	12605	15629	21930	402871	11670
Junco (Gray-h. + Mex.)	100	142	139	173	4791	569
Black-throated Sparrow	1	0	10	6	167	6
Sage Sparrow	0	0	13	1	57	0
Bachman's Sparrow	0	0	0	0	77	2
Cassin's Sparrow	0	0	0	0	1	0
Rufous-winged Sparrow	0	0	0	0	2	0
Rufous-cr. Sparrow	1	4	0	2	99	12
Song Sparrow	7091	7060	7089	7678	205524	13850
Lincoln's Sparrow	467	431	294	436	25967	103
Swamp Sparrow	268	189	145	778	15243	133
Fox Sparrow	1024	568	785	1751	35461	430
Eastern Towhee	1688	1719	1381	1662	34315	2169
Spotted Towhee	193	274	347	354	9707	958
Brown Towhee	471	572	786	416	12587	1488
Abert's Towhee	4	4	35	30	1415	317
Green-tailed Towhee	13	8	12	13	708	14
Cardinal	2754	3468	2754	2961	46172	5584
Pyrrhuloxia	1	0	2	0	80	1
Rose-br. Grosbeak	150	267	145	237	4780	854
Black-hd. Grosbeak	86	46	45	35	3599	359
Blue Grosbeak	8	19	8	14	143	5
Indigo Bunting	158	154	169	212	4349	143
Lazuli Bunting	16	11	30	0	775	2
Painted Bunting	58	16	33	41	937	46
Dickcissel	12	12	14	62	300	0

	<u>1950</u>	<u>1951</u>	<u>1952</u>	<u>1953</u>	<u>Grand Total</u>	<u>Ret. & Rec.</u>
Lark Bunting	12	1	2	0	971	3
Western Tanager	80	37	24	14	1235	31
Scarlet Tanager	73	58	67	105	1359	18
Hepatic Tanager	0	0	0	0	9	1
Summer Tanager	16	27	19	42	311	8
Purple Martin	333	312	381	551	11400	352
Cliff Swallow	624	1527	3559	7480	20792	2183
Barn Swallow	1015	1090	8409	1196	49126	947
Tree Swallow	921	1147	1371	1580	23646	2007
Violet-green Swallow	0	7	5	5	669	28
Bank Swallow	1217	734	1064	667	32722	706
Rough-winged Swallow	48	110	34	53	1352	8
Bohemian Waxwing	27	14	64	57	2758	27
Cedar Waxwing	279	628	239	329	29082	737
Phainopepla	1	0	3	1	102	0
Northern Shrike	24	3	5	1	318	16
Loggerhead Shrike	35	67	62	109	2500	101
Black-whiskered Vireo	0	0	0	0	6	0
Red-eyed Vireo	82	47	58	232	2651	20
Philadelphia Vireo	3	3	9	4	191	0
Warbling Vireo	12	8	7	8	489	9
Yellow-th. Vireo	2	4	2	4	126	0
Solitary Vireo	8	7	1	13	306	0
White-eyed Vireo	10	1	7	13	179	4
Hutton's Vireo	7	3	0	0	41	0
Bell's Vireo	9	1	0	3	182	3
Gray Vireo	0	0	0	0	3	0
Black & White Warbler	142	125	167	163	5455	16
Prothonotary Warbler	17	12	12	1	582	33
Swainson's Warbler	0	0	0	0	3	0
Worm-eating Warbler	4	3	2	7	139	0
Bachman's Warbler	0	0	0	0	4	0
Blue-w. Warbler	19	15	27	18	668	5
Brewster's Warbler	0	0	0	0	25	0
Lawrence's Warbler	0	0	1	0	12	0
Golden-w. Warbler	5	6	13	6	287	0
Lucy's Warbler	0	0	0	0	1	0
Virginia's Warbler	0	0	0	0	5	0
Nashville Warbler	72	73	65	110	3271	4
Orange-cr. Warbler	166	202	118	68	4952	30
Tennessee Warbler	331	176	285	777	6914	3
Parula Warbler	22	33	17	39	737	3
Cape May Warbler	64	56	50	99	1035	2
Yellow Warbler	348	330	237	332	9463	163
Black-th. Blue. W.	75	49	52	169	2019	1

	<u>1950</u>	<u>1951</u>	<u>1952</u>	<u>1953</u>	<u>Grand Total</u>	<u>Ret. & Rec.</u>
Myrtle Warbler	1563	1817	785	2134	33351	169
Audubon's Warbler	53	85	112	81	6075	418
Magnolia Warbler	191	223	270	245	5700	6
Cerulean Warbler	1	1	1	1	72	0
Chestnut-s. Warbler	69	88	83	59	2253	2
Bay-br. Warbler	84	83	226	203	1730	3
Blackpoll Warbler	142	133	160	268	4948	3
Blackburnian Warbler	44	36	37	81	1018	2
Yellow-th. Warbler	3	6	3	4	51	2
Grace's Warbler	0	0	0	0	9	1
Black-th. Gray Warb.	6	1	4	0	138	0
Black-th. Green Warb.	79	49	73	98	2126	7
Townsend's Warbler	6	4	6	1	103	0
Hermit Warbler	0	20	2	0	98	0
Kirtland's Warbler	1	1	19	15	210	46
Pine Warbler	60	69	85	98	2379	100
Palm Warbler	33	55	80	162	1437	21
Prairie Warbler	13	10	26	59	495	1
Ovenbird	357	311	328	439	12482	81
N. Waterthrush	86	59	85	85	4051	4
La. Waterthrush	10	1	15	2	223	1
Kentucky Warbler	14	6	6	10	409	9
Connecticut Warbler	14	13	19	29	820	0
Mourning Warbler	39	49	57	39	1579	1
MacGillivray's Warb.	9	2	3	0	376	1
Yellowthroat	338	364	325	475	13304	288
Yellow-br. Chat	53	47	42	55	1745	18
Hooded Warbler	12	2	14	15	260	3
Wilson's Warbler	140	90	51	70	3284	2
Canada Warbler	92	85	63	82	2723	1
American Redstart	516	389	458	664	13702	66
Painted Redstart	0	0	0	0	1	0
House Sparrow	1293	223	264	580	14607	356
Eur. Tree Sparrow	0	0	0	0	183	0
Yellow Wagtail	0	0	0	1	12	0
Water Pipit	8	31	25	117	858	20
Sprague's Pipit	0	0	1	0	9	0
Dipper	0	5	0	9	84	1
Sage Thrasher	2	1	1	4	149	0
Mockingbird	272	382	595	362	13951	763
Catbird	3095	3826	2733	3685	74693	5640
Brown Thrasher	1514	1561	1264	1655	46243	3811
Long-b. Thrasher	0	0	0	0	1	0
Curve-b. Thrasher	8	6	20	14	545	69
Bendire's Thrasher	2	0	0	0	100	23

	<u>1950</u>	<u>1951</u>	<u>1952</u>	<u>1953</u>	<u>Grand Total</u>	<u>Ret. & Rec.</u>
California Thrasher	58	86	31	26	1674	257
LeConte's Thrasher	0	0	1	1	12	0
Crissal Thrasher	0	0	6	14	97	27
Cactus Wren	10	8	7	19	552	104
Rock Wren	0	0	0	0	99	4
Carolina Wren	192	220	210	259	4084	272
Bewick's Wren	64	53	51	69	2639	93
House Wren	1476	2100	1237	1464	57884	2280
Winter Wren	62	76	46	64	1709	10
Cañon Wren	0	0	3	3	69	1
Short-b. Marsh Wren	1	4	1	3	50	0
Long-b. Marsh Wren	13	47	70	22	2548	4
Brown Creeper	74	76	104	99	5807	27
White-br. Nuthatch	611	535	844	582	12332	2309
Red-br. Nuthatch	98	34	148	80	1948	66
Brown-hd. Nuthatch	0	1	24	6	158	15
Pigmy Nuthatch	0	0	4	21	729	111
Tufted Titmouse	766	629	732	716	12638	2589
Black-cr. Titmouse	0	0	0	0	22	3
Plain Titmouse	37	109	66	74	1437	198
Bridled Titmouse	0	0	0	0	9	0
Black-c. Chickadee	3222	1480	5458	3211	56176	10638
Carolina Chickadee	257	251	313	308	3152	639
Mountain Chickadee	0	11	28	27	1343	127
Boreal Chickadee	4	1	16	4	141	8
Chestnut-b. Chickadee	17	16	8	28	434	13
Wrentit	18	32	30	28	1440	156
Common Bushtit	7	15	150	54	844	14
Verdin	0	0	0	0	46	6
Golden-cr. Kinglet	97	102	90	213	3737	3
Ruby-cr. Kinglet	143	147	98	311	6743	25
Blue-gr. Gnatcatcher	1	4	4	4	80	1
Black-t. Gnatcatcher	0	0	0	0	1	0
Townsend's Solitaire	1	3	6	0	165	0
Wood Thrush	372	283	284	463	8485	623
Veery	106	86	91	138	3894	34
Gray-ch. Thrush	145	108	179	208	7010	3
Olive-b. Thrush	687	472	479	629	19304	35
Hermit Thrush	684	497	397	1373	23388	195
Robin	5150	4777	4939	5939	170237	9069
Varied Thrush	6	2	46	15	1015	12
Eastern Bluebird	1248	1058	994	1105	32784	994
Western Bluebird	10	0	8	6	2198	108
Mountain Bluebird	20	8	9	30	981	26



12/1/72

