

RECOVERIES OF BANDED BIRDS OF PREY

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THIS series of papers is started through the courtesy of the editor of *Bird-Banding* in making space available so that the most outstanding cases can be brought to the attention of operators of banding stations and others interested in the distribution and migration of birds. This seems particularly desirable since the last Biological Survey publication on returns of banded birds was issued in December, 1927.¹ Since that time the work has grown apace, and the accumulation of data is now so great that it is obvious another "return bulletin" cannot be attempted. If issued along the lines of the last publication on this subject, a volume of at least six hundred pages would be required, which probably would cost about \$12,000.

It is believed, however, that the publication of these selected cases will be of much interest to a large body of bird-students, and it also will serve to point out fields that should receive more intensive study. This is well illustrated in the present paper, as, in the final analysis, we know very little about the migration of the birds of prey, and data already at hand indicate that there are features of unusual interest associated with their movements. With this in mind, it is hoped that all banding coöperators will collaborate with the editor of *Bird-Banding* if he calls upon them for elaboration of some of the work used in the records here presented.

While space does not permit discussion of the data, some comments will be added when such seem necessary in order to clarify the record. Only outstanding cases can be presented for each species. The statement in this paper relative to totals of bandings and returns is as of July 1, 1935.

In an examination of these data it will be noted that certain bird-banding coöperators have more or less specialized on the birds of prey, as, for example, Dr. J. F. Brenckle, of Northville, South Dakota, on Burrowing Owls; Frank J. Vejtasa, of Fairdale, North Dakota, on Snowy Owls; E. A. McIlhenny, of Avery Island, Louisiana, and Victor Coles, of Hampton, Virginia, on Black and Turkey Vultures; and Walter R. Salt, of Rosebud, Alberta, and Albert A. Cross, of Huntington, Massachusetts, on a wide variety of both hawks and owls. Still other operators are credited in this tabulation with several valuable records. The marking of birds of prey is of exceptional importance, and every opportunity should be seized to place bands upon either nestlings or adults.

¹ Returns from Banded Birds: 1923 to 1926, *U. S. Dept. Agr. Tech. Bull.* No. 32, pp. 1-96, illus., Dec., 1927.

TURKEY VULTURE. *Cathartes aura*

Banded, 552. Returns, 17

- A674818, banded at Battle Creek, Mich., on September 20, 1931, by Dr. L. H. Walkinshaw, was killed (probably) at Plant City, Fla., on December 23, 1932.
A714735, banded at Church Creek, Md., on March 12, 1932, by Frank R. Smith, was shot at Flemington, N. J., on August 15, 1932.
A727958, banded at Hampton, Va., on October 25, 1934, by Victor Coles, was caught in trap (not banding) at Edenton, N. C., on December 28, 1934.
34-703662, banded at Hampton, Va., on January 12, 1935, by Victor Coles, was found dead at Seaford, Del., about April 1, 1935.

BLACK VULTURE. *Coragyps atratus*

Banded, 547. Returns, 10

- 34-702404, banded at Avery Island, La., on September 13, 1934, by E. A. McIlhenny, was caught at Gueydan, La., on April 14, 1935.
34-702437, banded at Avery Island, La., on September 13, 1934, by E. A. McIlhenny, was caught in trap and killed at Gueydan, La., on May 8, 1935.
34-702447, banded at Avery Island, La., on September 13, 1934, by E. A. McIlhenny, was caught at Gueydan, La., on April 23, 1935.
34-702464, banded at Avery Island, La., on September 13, 1934, by E. A. McIlhenny, was caught in trap and killed at Gueydan, La., on April 4, 1935. The point of recovery of these four records is about 33 miles west and north of the point of banding.
34-705055, banded at Hampton, Va., on April 13, 1935, by Victor Coles, was killed at Mathews, Va., about June 25, 1935.

GOSHAWK. *Astur atricapillus*

Banded, 34. Returns, 3

- A683590, banded at Chester, Mass., on May 19, 1931, by Harry E. Woods, was shot at Towners, N. Y., on November 14, 1931.

SHARP-SHINNED HAWK. *Accipiter velox*

Banded, 114. Returns, 10

- 315412, banded at Lenox, Mass., on July 4, 1931, by Maurice Broun, was killed at Lodge, Va., on April 17, 1932.
A428011, banded at Leetonia, Ohio, on July 9, 1933, by Paul A. Stewart, was killed at Murfreesboro, Tenn., on December 9, 1933.
A507551, banded at Berrien Springs, Mich., on June 21, 1931, by R. R. Ferguson, was killed at South Bend, Ind., on September 11, 1931.

COOPER'S HAWK. *Accipiter cooperi*

Banded, 214. Returns, 44

- 554668, banded at Milwaukee, Wis., on July 4, 1932, by Clarence S. Jung, was shot at Parma, Mo., on February 23, 1933.
599858, banded at Toledo, Ohio, on June 28, 1930, by Louis W. Campbell, was killed at Wiggins, Miss., on December 23, 1930.
599865, banded at Toledo, Ohio, on July 4, 1931, by Louis W. Campbell, was captured at Bon Aqua, Tenn., about May 10, 1933.
A562142, banded at Pinckney, Mich., on July 8, 1933, by Paul F. Hickie, was found almost dead at Springfield, Ky., on December 15, 1933.

RED-TAILED HAWK. *Buteo borealis*

Banded, 367. Returns, 85

- 235859, banded at Verona, Wis., on May 15, 1930, by George Wagner, was killed 4 miles S. W. of Eunice, La., on January 31, 1931.
302126, banded at Jackson, Wyo., on June 22, 1931, by O. J. Murie, was found wounded at Coalcoman, Michoacan, Mexico, on January 11, 1932.
309018, banded at Muscow, Saskatchewan, Canada, on July 3, 1927, by R. H. Carter, was shot at Iota, La., about February 1, 1934.

- 599831, banded at Tadmore, Saskatchewan, Canada, on June 13, 1929, by Robert M. Blakely, was killed at Victoria, Tex., on February 13, 1932.
- 655444, banded at Hepburn, Saskatchewan, Canada, on June 23, 1930, by Philip Siemens, was killed at Flatonia, Tex., on December 30, 1930.
- A674869, banded at Knowlesville, N. Y., on May 26, 1934, by G. V. Knepper, was killed at Willow Hill, Ill., about November 29, 1934.
- A683594, banded at Chester, Mass., on May 24, 1931, by Harry E. Woods, was killed at Lynchburg, S. C., on December 25, 1931.
- A721709, banded at Ruthven, Iowa, on July 30, 1933, by Dr. Paul L. Errington, was killed at Colfax, La., on January 10, 1934.
- A724803, banded at Carmanagay, Alberta, Canada, on July 1, 1933, by Dr. and Mrs. J. E. Horning, was found dead 10 miles north of Kimball, Nebr., on January 20, 1934.
- B661937, banded at Williamston, Mich., on May 13, 1933, by Prof. P. F. English, was killed at Greensboro, Ala., on December 26, 1933.
- C622262, banded at Stenen, Saskatchewan, Canada, on June 14, 1933, by Mrs. F. Wickenkamp, was killed at Buffalo Bayou, Tex., on October 15, 1933.
- C629877, banded at Fairfield, Iowa, on May 30, 1934, by Carl Welty, was killed at Cuero, Tex., on December 30, 1934.

RED-SHOULDERED HAWK. *Buteo lineatus*

Banded, 191. Returns, 38

- 210855, banded at Hall, N. Y., on April 1, 1927, by H. A. Southerland, was retaken at North Side, N. C., in March, 1931.
- 210898, banded at H. Beadel Plantation, Leon County, Fla., on May 7, 1924, by C. O. Handley and H. L. Stoddard, was killed at Tallahassee, Fla., on April 18, 1930. This bird was banded as a fledgling and was killed on its nest.
- 226876, banded at East Lansing, Mich., on February 22, 1930, by Dr. Miles D. Pirnie, was shot at Dayton, Ohio, about January 10, 1931.
- 559185, banded at Berrien Springs, Mich., on June 15, 1931, by Roy R. Ferguson, was killed at Morganfield, Ky., about November 25, 1934.
- 660552, banded at Huntington, Mass., on June 14, 1931, by Albert A. Cross, was killed at Freeman, N. C., on January 4, 1934.
- A582565, banded at Sherman, Mo., on July 22, 1934, by L. M. Weber, was found wounded at Lavinia, Iowa, on August 24, 1934.
- B664473, banded at Demarest, N. J., on May 31, 1932, by B. S. Bowdish, was killed in Lee County, N. C., about November 10, 1932.
- B664991, banded at Rhinebeck, N. Y., on June 11, 1932, by M. R. Knapp, was killed at East Bend, N. C., on February 1, 1933.

BROAD-WINGED HAWK. *Buteo platypterus*

Banded, 59. Returns, 6

- 660558, banded at Huntington, Mass., on July 10, 1932, by Albert A. Cross, was killed 8 miles west of Winchester, Va., on September 8, 1932.
- A675276, banded at Huntington, Mass., on July 5, 1930, by Albert A. Cross, was caught at Atkins, Mich., on August 28, 1930.
- B664997, banded at Rhinebeck, N. Y., on June 10, 1933, by Maxwell R. Knapp, was killed at Bloxom, Va., on February 14, 1934.

SWAINSON'S HAWK. *Buteo swainsoni*

Banded, 99. Returns, 12

- 388328, banded at Davidson, Saskatchewan, Canada, on May 1, 1932, by Bert Lloyd, was shot at Anson, Tex., on November 24, 1932.
- 656405, banded at Vernon, Tex., on June 30, 1928, by George E. Maxon, was captured at Olustee, Okla., about October 2, 1934.
- A605202, banded at Dollard, Saskatchewan, Canada, on June 26, 1932, by Charles F. Holmes, was killed at Stacey, Mont., on September 28, 1932.
- A605212, banded at Dollard, Saskatchewan, Canada, on August 12, 1934, by Charles F. Holmes, was shot at Clinton, Okla., on October 12, 1934.

AMERICAN ROUGH-LEGGED HAWK. *Buteo lagopus*

Banded, 30. Returns, 5

B670746, banded at Waukegan, Ill., on December 11, 1933, by William I. Lyon, was found dead at Shelby, Ind., about December 16, 1933.

FERRUGINOUS ROUGH-LEGGED HAWK. *Buteo regalis*

Banded, 87. Returns, 15

A709877, banded at Rosebud, Alberta, Canada, on July 8, 1930, by Walter R. Salt, was caught in steel trap at Tatum, New Mexico, on October 27, 1931.

A709896, banded at Rosebud, Alberta, Canada, on June 17, 1933, by Walter R. Salt, was shot at Midland, Tex., on November 10, 1933.

A717512, banded at Beynon, Alberta, Canada, on June 16, 1934, by Walter R. Salt, was found dead at Hudson, Colo., on March 15, 1935.

A717523, banded at Rosebud, Alberta, Canada, on June 19, 1934, by Walter R. Salt, was caught in coyote trap at Brea, Calif., about November 15, 1934.

A717525, banded at Rosebud, Alberta, Canada, on June 19, 1934, by Walter R. Salt, was found dead at Hugoton, Kans., about December 30, 1934.

BALD EAGLE. *Haliaeetus leucocephalus*

Banded, 57. Returns, 8

299451, banded at Ephraim, Wis., on June 29, 1928, by Prof. George Wagner, was caught in trap at South Boardman, Mich., on December 15, 1933.

303351, banded at Delaware City, Del., on May 5, 1928, by Benjamin C. Hiatt, was captured alive in trap at Olivet, Md., on February 4, 1931.

322057, banded at Grand Rapids, Mich., on May 20, 1928, by Ben East, was found wounded (later released and able to fly) at Roscommon Mich., on October 22, 1934.

MARSH HAWK. *Circus hudsonius*

Banded, 631. Returns, 129

223901, banded at Dawsetts Marsh, Washtinaw County, Mich., on July 11, 1924, by Walter E. Hastings, was killed at Thayer, Kans., about March 7, 1933.

226356, banded in Anoka County, Minn., on June 25, 1933, by W. J. Breckenridge, was killed at Windsor, Mo., on October 31, 1933.

233458, banded at Berlin Center, Ohio, on June 29, 1930, by Ernest W. Vickers, was killed in Wharton County, Tex., on December 28, 1930.

453015, banded at Beaverhills Lake, Alberta, Canada, on August 25, 1933, by William Rowan, was killed 40 miles west of Oklahoma City, Okla., on October 31, 1934.

542479, banded at Andover, N. Y., on June 18, 1932, by C. H. Watson, was killed (probably) at Waco, Tex., on September 17, 1932.

542951, banded at Montreal, Quebec, Canada, on July 16, 1930, by W. J. Low, was killed at Montezuma, N. Y., on October 9, 1930.

599863, banded at Toledo, Ohio, on July 1, 1930, by Louis W. Campbell, was killed (probably) 5 miles south of Kingston, Ga., on October 10, 1930.

656129, banded at Dayton, Ohio, on June 15, 1930, by Louis B. Kalter, was wounded 4 miles from Harlingen, Tex., on January 12, 1931.

656823, banded at Antwerp, Ohio, on July 6, 1930, by O. E. Ehrhart, was killed 8 miles east of Comanche, Tex., on September 4, 1930.

702951, banded at Minneapolis, Minn., on June 29, 1929, by Gustav A. Swanson, was killed 2 miles north of Mill Creek, Okla., on February 2, 1931.

703902, banded at Pottageville, York County, Ontario, Canada, on July 10, 1932, by Charles H. D. Clarke, was killed at Fulton, Mo., on November 17, 1932.

A502414, banded at Wolfville, Nova Scotia, Canada, on July 25, 1932, by Ronald W. Smith, was killed at Selbyville, Del., on November 14, 1933.

A544174, banded at Rosebud, Alberta, Canada, on July 4, 1933, by W. R. Salt, was shot at Oak Harbor, Wash., on August 31, 1933.

A568773, banded at Hyas, Saskatchewan, Canada, on July 29, 1933, by William L. Witherspoon, was killed at Beaumont, Tex., about December 20, 1934.

- A572815, banded at Rosebud, Alberta, Canada, on July 16, 1933, by Walter R. Salt, was caught in coyote trap at Brice, Brisco County, Tex., on December 22, 1933.
- A609865, banded at Zion, Ill., on June 29, 1931, by C. E. Holcombe, was killed at Ashburn, Ga., on March 2, 1933.
- A625374, banded at North Lima, Ohio, on June 21, 1931, by Edgar L. Stephenson, was killed at Muldrow, Okla., on August 21, 1931.
- A626612, banded at Madison, Wis., on June 11, 1930, by Prof. George Wagner, was killed at Pascagoula River Marshes, Jackson County, Miss., about December 10, 1932.
- A685618, banded at Valeport, Saskatchewan, Canada, on June 28, 1932, by Fred Bard, was killed at Apache, Okla., on October 13, 1932.
- A697063, banded at Argusville, N. D., on July 13, 1931, by Gale W. Monson, was retaken at Guantanamo, Cuba, about January 16, 1932.
- A721706, banded at Anoka, Minn., on June 28, 1933, by Dr. Paul L. Errington, was caught in Calloway County, Ky., about January 25, 1935.
- B607797, banded at Niles Center, Ill., on June 26, 1932, by William I. Lyon, was killed at Vernon, Tex., on September 12, 1932.
- B618505, banded at Lewiston, Ohio, on July 9, 1931, by John H. Chase, was caught at Lake Crystal, Minn., about July 1, 1935.
- B646388, banded at Rosebud, Alberta, Canada, on July 8, 1933, by Walter R. Salt, was found dead at Casa Grande, Ariz., about November 18, 1933.
- B652688, banded at Aberdeen, S. D., on July 12, 1933, by F. W. George, was killed (probably) at Littlefield, Tex., about November 30, 1933.
- B664960, banded at Berrien Springs, Mich., on June 10, 1933, by Roy Ferguson, was found dead at Harmon, Okla., on April 28, 1934.
- 34-508006, banded at Glenevis, Alberta, Canada, on June 22, 1934, by Dr. and Mrs. J. E. Horning, was killed at Keuterville, Idaho, on September 20, 1934.
- 34-508022, banded at Glenevis, Alberta, Canada, on June 22, 1934, by Dr. and Mrs. J. E. Horning, was caught at Blythe, Calif., about February 10, 1935.
- 34-509952, banded at London, Ontario, Canada, on July 7, 1934, by J. C. Higgins, was killed at Marianna, Ark., on November 12, 1934.

OSPREY. *Pandion haliaëtus*

Banded, 637. Returns, 46

- ABBA-26584, banded at Gardiner's Island, N. Y., on June 19, 1914, by H. H. Cleaves, found dead at Gardiner's Island, N. Y., on June 1, 1935. This bird was banded as a nestling. Its recovery makes the greatest longevity record thus far reported for any bird.
- ABBA-26591, banded at Gardiner's Island, N. Y., on June 15, 1914, by H. H. Cleaves and H. K. Decker, was killed at West Durham, N. C., on April 4, 1930. Banded as a nestling.
- 202392, banded at Providence, R. I., on June 20, 1924, by H. E. Childs, was shot at Lafayette, R. I., on July 16, 1932.
- 661055, banded at Avalon, N. J., on August 27, 1929, by John T. Emlen, skeleton found in Burke County, Ga., fall 1930.
- A700308, banded at Avalon, N. J., on August 10, 1929, by C. Brooke Worth, caught in steel trap at Rockledge, Fla., on January 2, 1932.
- A700412, banded at Gardiner's Island, L. I., N. Y., on July 3, 1931, by Le Roy Wilcox, was caught in steel trap (died) 8 miles north of Hancock, Md., on Tonolway Creek, Thompson Twsp., Pa., on September 27, 1931.
- A719002, banded at Slaughter Beach, Del., on April 25, 1932, by Herbert Buckalew, was shot at Milk River, Jamaica, B. W. I., on March 10, 1933.
- A719077, banded at Slaughter Beach, Del., on April 26, 1934, by Herbert Buckalew, was killed at El Mojan-Estado, Zulia, Venezuela, South America, on June 28, 1935.
- A721063, banded at Avalon, N. J., on August 20, 1933, by Mr. and Mrs. J. A. Gillespie, leg with band found at Edenton, N. C., about May 1, 1934.

- A727056, banded at Orient Point, L. I., N. Y., on July 23, 1933, by Marie V. Beals, was shot while attempting to alight on the mast of a ship 73 miles east of Cape Hatteras, N. C., on October 9, 1933.
34-701204, banded at Smith's Point, Va., on June 19, 1934, by W. Bryant Tyrrell, was found crippled at Beaufort, N. C., about October 1, 1934.

DUCK HAWK. *Falco peregrinus*

Banded, 55. Returns, 10

- A701032, banded at Mohonk Lake, N. Y., on June 18, 1929, by Albert K. Smiley, Jr., was shot at Grand Island, Nebr., on September 26, 1929.
B661961, banded at Scout Camp, Treasure Island, N. J., on September 3, 1932, by Joseph V. Sparmaker, was caught at McClure, Ill., on September 22, 1932.
C629585, banded at Rosebud, Alberta, Canada, on July 4, 1933, by Walter R. Salt, was shot at Butte, N. Dak., on September 22, 1933.

PIGEON HAWK. *Falco columbarius*

Banded, 41. Returns, 5

- A416122, banded at Rosebud, Alberta, Canada, on July 8, 1930, by W. R. Salt, was shot at Gila Valley near Stafford, Ariz., on December 12, 1930.
A420558, banded at Rosebud, Alberta, Canada, on July 6, 1931, by Walter R. Salt, was killed at Tucson, Ariz., on January 28, 1933.

SPARROW HAWK. *Falco sparverius*

Banded, 637. Returns, 46

- 368572, banded at Babson Park, Mass., on June 14, 1929, by Lester W. Smith, was killed at Allsbrook, S. C., on February 19, 1931.
A443939, banded at Norristown, Pa., on June 11, 1932, by R. J. Middleton, was killed in Nash County, N. C., on October 24, 1932.
A462120, banded at Rosebud, Alberta, Canada, on July 5, 1933, by Walter R. Salt, was found dead at Proctor, Tex., on March 27, 1934.
C338832, banded at Flushing, L. I., N. Y., on June 23, 1934, by Arthur F. McBride, was killed 7 miles west of Pinewood, S. C., on January 2, 1935.

BARN OWL. *Tyto alba*

Banded, 937. Returns, 115

- 223277, banded at Oconomowoc, Wis., on July 22, 1929, by Irving J. Perkins, was caught in steel trap at Tuckerman, Ark., on May 23, 1932.
232151, banded at Horsham, Pa., on June 25, 1929, by Mrs. Florence C. Griscom, was captured at Boston, Ga., on January 8, 1931.
496906, banded at Quincy, Ill., on June 7, 1930, by T. E. Musselman, was caught in steel trap at Bassfield, Miss., on December 11, 1930.
599803, banded at Riverton, N. J., on June 13, 1929, by John T. Emlen, Jr., was caught in a "hawk trap" at Berea, N. C., on November 15, 1930.
656951, banded at Brainard, Nebr., on April 22, 1934, by Mr. and Mrs. A. A. Misk, was killed near Houston, Tex., on February 3, 1935.
B622022, banded at Springdale, Hamilton County, Ohio, on June 11, 1932, by C. J. Goetz, was found dead at Albany, Ga., on November 8, 1933.
B622023, banded at Springdale, Ohio, on June 11, 1932, by C. J. Goetz, was shot at Carlisle, Ark., on October 18, 1932.
B622025, banded at Springdale, Ohio, on June 11, 1932, by C. J. Goetz, was shot at Theodore, Ala., on November 20, 1932.
B664405, banded at Leetonia, Ohio, on May 22, 1933, by Paul A. Stewart, was killed (probably) at Naples, Fla., on January 30, 1934.
B664406, banded at Leetonia, Ohio, on July 2, 1933, by Paul A. Stewart, was shot at Amherstburg, Ontario, Canada, on May 23, 1934.
B674207, banded at Chilmark, Mass., on July 3, 1932, by George D. Eustis, was caught at Schwenkville, Pa., about August 29, 1933.

SCREECH OWL. *Otus asio*
Banded, 1270. Returns, 153

- 209911, banded at Ashton, Iowa, on December 16, 1928, by James E. Townsend, was caught (died of cold) at Tabor, S. Dak., in January, 1930. The distance between points of banding and recovery is nearly 100 miles.
- 290939, banded at Claremont, Calif. on May 20, 1928, by E. L. Sumner, Jr., was found dead at La Verne, Calif., on May 20, 1931, about 35 miles away.
- A510850, banded at Glenwood, Minn., on March 25, 1932, by James V. Porter, was found dead in Palo Alto County, near Emmetsburg, Iowa, on December 20, 1932, the bird having covered a distance of nearly 200 miles.
- A600862, banded at La Verne, Calif., on March 7, 1929, by Rudolph Fischer, was shot at North Pomona, Calif, about July 1, 1930, about 360 miles south.
- B652681, banded at Aberdeen, S. Dak., on June 20, 1933, by F. W. George, was caught in sheep barn at Havana, N. Dak., on October 25, 1933, a distance of more than 50 miles.

GREAT HORNED OWL. *Bubo virginianus*
Banded, 306. Returns, 54

- 301328, banded at Indian Head, Saskatchewan, Canada, on May 5, 1928, by George Lang, was shot 5 miles north of Qu'Appelle, Saskatchewan, Canada, on June 19, 1935.
- 661183, banded at Muscow, Saskatchewan, Canada, on May 22, 1932, by John R. Carter, was shot at Moose Mountain Indian Reserve, near Manor, Saskatchewan, Canada, about November 3, 1933. The distance covered by this bird was about 115 miles.

SNOWY OWL. *Nyctea nyctea*
Banded, 81. Returns, 16

- 237336, banded at Fairdale, N. Dak., on March 9, 1930, by Frank J. Vejtasa, was retaken at Crooked Gutway, Fort George, Quebec, Canada, about September 10, 1932.
- 237339, banded at Fairdale, N. Dak., on April 6, 1930, by Frank J. Vejtasa, was shot at Horndean, Manitoba, Canada, on April 20, 1931.
- 237340, banded at Fairdale, N. Dak., on April 17, 1930, by Frank J. Vejtasa, was found dead at Fisher Branch, Manitoba, Canada, on July 21, 1930.
- 320672, banded at Fairdale, N. Dak., on April 7, 1931, by Frank J. Vejtasa, was killed at St. Laurent, Manitoba, Canada, on April 30, 1931.
- 320674, banded at Fairdale, N. Dak., on April 7, 1931, by Frank J. Vejtasa, was captured alive at Meleb, Manitoba, Canada, about May 23, 1932.

BURROWING OWL. *Speotyto cucularia*
Banded, 576. Returns, 34

- A515484, banded at Northville, S. Dak., on June 27, 1931, by J. F. Brenckle, was shot near Edmond, Okla., on December 12, 1932.
- A515489, banded at Northville, S. Dak., on June 27, 1931, by J. F. Brenckle, was captured 4 miles north of Gunter, Tex., on January 7, 1932.
- A519449, banded at Northville, S. Dak., about July 1, 1931, by J. F. Brenckle, was found badly injured at Royal, Nebr., about October 1, 1931.
- A544057, banded at Northville, S. Dak., on July 10, 1932, by J. F. Brenckle, was caught at Willow, Okla., about April 4, 1933.
- A544070, banded at Northville, S. Dak., on July 10, 1932, by J. F. Brenckle, was shot at Columbia, S. Dak., on April 24, 1934.
- A544093, banded at Northville, S. Dak., on June 21, 1933, by J. F. Brenckle, was killed during a hail storm at Snyder, Tex., on April 3, 1935.
- A568829, banded at Northville, S. Dak., on June 24, 1933, by J. F. Brenckle, was caught at Kamrar, Iowa, about April 21, 1934.
- A568860, banded at Northville, S. Dak., on July 18, 1933, by J. F. Brenckle, was killed at Lott, Tex., about January 20, 1935.
- A568894, banded at Northville, S. Dak., on July 18, 1933, by J. F. Brenckle, was killed at Gasoline, Tex., on October 11, 1933.

- A568899, banded at Northville, S. Dak., on July 18, 1933, by J. F. Brenckle, was killed (probably) at Flatonia, Tex., about October 15, 1934.
B622725, banded at Jamestown, N. Dak., on July 16, 1933, by Glenn L. Berner, was killed (probably) 5 miles west of Moore, Tex., on December 26, 1934.

BARRED OWL. *Strix varia*
Banded, 100. Returns, 17

- 662514, banded at Prairie du Sac, Wis., on May 24, 1931, by George Wagner, was captured at Galena, Ill., on November 28, 1931. The distance covered by this bird was about 70 miles.

LONG-EARED OWL. *Asio wilsonianus*
Banded, 255. Returns, 9

- 208816, banded at Martha's Vineyard, Mass., in 1927, by Allan Keniston, was found wounded at Englewood, N. J., on April 19, 1933.
B661987, banded at Escondido, Calif., on April 22, 1934, by Fred N. Gallup, was shot at Corbeil, Ontario, Canada, on October 9, 1934. This is one of the most unusual records thus far obtained. It has been thoroughly checked.
C616735, banded at St. Johns, Mich., on May 14, 1933, by Frank C. Bishop, was captured at Abitibi, Quebec, Canada, on September 4, 1933.
C629600, banded at Rosebud, Alberta, Canada, on July 4, 1933, by Walter R. Salt, was shot at Layton, Utah, on February 2, 1935.

SHORT-EARED OWL. *Asio flammeus*
Banded, 71. Returns, 2

- A685603, banded at Tregarva, Saskatchewan, Canada, on July 18, 1931, by Fred G. Bard, was shot at Rice Lake, Minn., on October 23, 1931.

SAW-WHET OWL. *Cryptoglaux acadica*
Banded, 69. Returns, 1

- 439545, banded at Sound Beach, Conn., on January 15, 1929, by Joseph J. Hickey, was found dead at Kittery, Maine, about February 16, 1930.

Biological Survey, Washington, D. C.

GENERAL NOTES

Apparent Intelligence of the Sparrow (*Passer d. domesticus*) and Starling (*Sturnus v. vulgaris*) at the Trap.—During the autumn of 1935 I spent a fortnight with members of the Midlothian Ornithological Club at their trapping station on the Isle of May, Firth of Forth, Scotland. The trap, situated at one end of the central valley of the island, is in shape a huge funnel of wire netting with an entrance measuring some 10 by 36 feet, the side netting extending a great deal farther than this.

Excluding some vegetables in the lighthouse gardens, the only cover on the island is around the entrance to the trap. This is all artificial and is so arranged that it is thickest in the mouth and for the first 18 feet inside the trap. Migratory and resident Passerine birds seek this cover in preference to anywhere else on the island, and, when disturbed from the right direction, are easily induced to move up into the thicker cover, where they find themselves in the trap and, frightened by the human figures, attempt to escape through the apparent exit at the other end—a sheet of glass.

The breeding Passerines on the island are Sparrow, Starling, Blackbird (*Turdus m. merula*), Song Thrush (*Turdus e. ericetorum*), Pied Wagtail (*Motacilla alba yarrellii*), Meadow Pipit (*Anthus pratensis*) and Rock Pipit (*Anthus spinoletta petrosus*), and, except for the first two, these, with the passage-migrant species, always flew away from the disturbance into the cover and so into the trap. But I noted that the Sparrows and Starlings almost invariably flew over or around the entrance, which meant that they had to fly upwards for ten feet.