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## SOME LONGEVITY RECORDS OF WILD BIRDS

By MAY THACHER COOKE

BANDING returns are furnishing many data regarding the longevity of wild birds. Many records have been published of the length of time that birds have lived in captivity, but now, for the first time we begin to get some idea of how long birds can live in their wild state. Only through banding can this information be obtained.

The present paper is only a cursory study of the returns that have been received in the last three years, and does not include any duck records, those being a separate study. No birds less than five years old at the latest date of recovery have been included, and no attempt has been made to complete the records of returning individuals. In a few instances the entire record has been given on the last return card submitted.

As would be expected, larger numbers of long-lived individuals have been found among the species that trap readily. The list is remarkable as much for the species not included as for those that are. No Song Sparrows and few Robins are included in the present list, though both species have been banded in large numbers. It will be noted that all the returns listed for White-throated Sparrows are of winter birds. Although thousands of this species have been banded while in migration, there are few returns except of birds banded on their wintering grounds.

In previous papers of this series will be found other long-time records, notably three for the Osprey, of 21, 20, and 8 years, respectively, published in the January, 1936, issue of *Bird-Banding*.

Numbers preceded by an asterisk indicate that the bird was a young bird when banded, so that the exact age of the last return is definitely known.

BROWN PELICAN. *Pelecanus occidentalis*

\*A700348, banded at Merritt's Island, Fla., on September 5, 1929, by C. Brooke Worth, was found dead, with a fish fin three inches long stuck in its throat, at Indian River, near Vero Beach, Fla., on December 11, 1935.

DOUBLE-CRESTED CORMORANT. *Phalacrocorax auritus*

\*302525, banded in Saguenay County, Que., on August 4, 1928, by H. F. Lewis, was shot near Gaylor's Bay, N. C., on January 12, 1934.

BLACK-CROWNED NIGHT HERON. *Nycticorax nycticorax hoaccli*

\*210993, banded at Barr Lake, Colo., on June 29, 1929, by J. B. Rishel, was killed at Henderson, Colo., on July 31, 1934.

\*326122, banded at Muncie, Ind., on June 9, 1928, by O. B. Christy, was caught at Fair Play, S. C., on April 16, 1934.

\*336641, banded at Bourne, Mass., on June 9, 1925, by Benjamin S. Harrison, was found with a broken wing at Ocean View, Va., about April 19, 1935.

\*385326, banded at Barnstable, Mass., on June 19, 1925, by Allen Potter, was found decomposed at Wellfleet, Mass., on July 18, 1933.

\*420638, banded  $4\frac{1}{2}$  miles north of Foam Lake, Sask., on July 4, 1929, by J. A. M. Patrick, was shot by an Indian at Quinton, Sask., in the fall of 1934.

\*542932, banded at Evansville, Wis., on June 18, 1927, by John J. Gundlach, was found dead at Amboy, Lee County, Ill., about April 1, 1935.

\*559343, banded at Jeremy's Cove, Long Pond, Nantucket, Mass., on June 14, 1931, by Richard M. Hinchman, was caught in a snare at Westmoreland Parish, Jamaica, British West Indies, on February 17, 1935.

\*A674478, banded at Bay City, Mich., on May 25, 1930, by W. Bryant Tyrrell, was killed at Carlton, Ga., September 7, 1935.

SHARP-SHINNED HAWK. *Accipiter velox*

436821, banded at Pasadena, Calif., on February 27, 1930, by Harold Michener, was shot at Clovis, Calif., on November 15, 1935.

RED-TAILED HAWK. *Buteo borealis*

\*309003, banded at Muscow, Sask., Canada, on June 30, 1924, by R. H. Carter, Jr., was caught at Rose, Kans., about March 1, 1936.

420274, banded at Fairdale, N. D., on April 6, 1930, by F. J. Vejtasa, was shot 9 miles south of Fort Dodge, Iowa, about November 22, 1935.

422420, banded at Marshall, Mo., on February 12, 1928, by Tony Davis, was caught in a trap at Jerico Springs, Mo., on January 2, 1935.

SWAINSON'S HAWK. *Buteo swainsoni*

\*656405, banded at Vernon, Tex., on June 30, 1928, by George E. Maxon, was captured at Olustee, Okla., about October 2, 1934.

MARSH HAWK. *Circus hudsonius*

320513, banded at Hamilton, Kans., on November 30, 1924, by Dr. G. C. Rinker, was killed at McLean, Tex., about November 17, 1933.

\*A626651, banded at Garden Prairie, Ill., on July 10, 1930, by Donald J. Johnson, was killed at Crystal Lake, Ill., on May 27, 1936.

GLAUCOUS-WINGED GULL. *Larus glaucescens*

\*233277, banded at Bare Island, Haro Strait, B. C., on August 2, 1929, by G. D. Sprot, was found dead in a muskrat-trap at Sardis, B. C., about February 1, 1934.

\*299550, banded at Bare Island, Haro Strait, B. C., on July 21, 1924, by Donald W. Gillingham, was killed for scientific purposes at Hermosa Point, 3 miles north of Everett, Wash., on November 5, 1933.

\*421608, banded at Skipjack Island, San Juan County, Wash., on August 1, 1926, by L. G. Worley, was caught on a fish-hook at Egmont, B. C., about November 26, 1934.

\*421652, banded at Bare Rock, San Juan County, Wash., on July 24, 1927, by L. G. Worley, was found dead at Lake Washington, near Medina, Wash., on January 15, 1933.

\*466510, banded at Mittlenach Island, Strait of Georgia, B. C., on August 1, 1929, by Theed Pearse, was found dead at Ceepeecee, Vancouver Island, B. C., on January 15, 1934.

GREAT BLACK-BACKED GULL. *Larus marinus*

- \*418763, banded at Boat Island, Saguenay County, Que., on August 6, 1926, by Harrison F. Lewis, was shot at St. Johns, Newfoundland, on April 15, 1933.

HERRING GULL. *Larus argentatus*

- \*408026, banded at Sister Island, Green Bay, Wis., on June 21, 1928, by Wallace B. Grange, was found dead at Fayette, Mich., about May 10, 1935.
- \*408599, banded at Muskeget Island, Mass., on July 16, 1928, by Allan Keniston, was shot at Maddaket Harbor, Nantucket, Mass., on December 6, 1934.
- \*564517, banded at Gravel Island, Door County, Wis., on July 6, 1927, by William I. Lyon, was found dead at Ingallston, Mich., on August 9, 1933.
- \*564683, banded at Little Gull Island, Delta County, Mich., on July 7, 1927, by William I. Lyon, was caught in a net and released unharmed 12 miles north of Menominee, Mich., on July 17, 1933.
- \*564921, banded at Little Gull Island, Mich., on July 7, 1927, by William I. Lyon, was shot at Lowell, Mich., on November 28, 1933.
- \*564997, banded at Gravelly, Gull Island, Delta County, Mich., on July 8, 1927, by William I. Lyon, was found dead with a broken wing at Nanty Glo, Cambria County, Pa., on May 14, 1934.
- \*566896, banded at St. Martin's Shoal, Mackinac County, Mich., on July 6, 1928, by William I. Lyon, was found with a broken wing at Whitefish Bay, Wis., on April 23, 1936.
- \*A608518, banded at Biddeford Pool, Maine, on July 17, 1929, by James P. Melzer, was taugth by a cat at Edgewater Park, Bronx, N. Y., on January 28, 1934.
- \*A682404, banded at Sister Island, Wis., on July 1, 1930, by Harold C. Wilson, flew aboard a ship and was released at Tuxpan, Vera Cruz, Mex., on March 3, 1936.
- \*701760, banded at Sister Island, Green Bay, Wis., on June 21, 1928, by Harold C. Wilson, was found dead in Rutherford County, N. C., about March 3, 1934.
- \*701770, banded at Sister Island, Green Bay, Wis., on June 21, 1928, by Harold C. Wilson, was found dead at Grassy Island, Green Bay, Wis., on April 14, 1934.
- \*701851, banded at Sister Island, Green Bay, Wis., on June 21, 1928, by Harold C. Wilson, was shot at Green Bay, Wis., on February 1, 1934.
- \*703566, banded at Hat Island, Door County, Wis., on June 30, 1928, by Wallace B. Grange, was retrapped at Waukegan, Ill., on January 30, 1935.

CALIFORNIA GULL. *Larus californicus*

- \*544322, banded at Bittern Lake, 12 miles northwest of Camrose, Alta., on June 22, 1927, by Frank L. Farley, was found dead at Caldwell, Idaho, on November 11, 1934.
- \*700230, banded at Gull Island, Bittern Lake, 12 miles northwest of Camrose, Alta., on June 21, 1929, by Frank L. Farley, was found dead at Calgary, Alta., on April 23, 1934.
- \*700152, banded at Gull Island, Bittern Lake, 12 miles northwest of Camrose, Alta., on June 22, 1929, by Frank L. Farley, was found dead 18 miles east of Ponoka, Alta., on May 1, 1935.
- \*701167, banded at Gull Island, Bittern Lake, 12 miles northwest of Camrose, Alta., on June 21, 1929, by Frank L. Farley, was found dead at Delmas, Sask., about May 30, 1936.
- \*701486, banded at Gull Island, Bittern Lake, 12 miles northwest of Camrose, Alta., on June 21, 1929, by Frank L. Farley, was found dead, probably from gopher poison at Bashaw, Alta., on May 3, 1935.

RING-BILLED GULL. *Larus delawarensis*

- \*701067, banded at Gull Island, Bittern Lake, 12 miles northwest of Camrose, Alta., on June 21, 1929, by Frank L. Farley, was captured and released at Tofield, Alta., on July 27, 1935.

COMMON TERN. *Sterna hirundo*

- \*211490, banded at Tern Island, Chatham, Mass., on July 20, 1923, by E. H. Forbush, was captured and released at the same place, June 14, 1935.
- \*280616, banded at Tern Island, Chatham, Mass., on June 12, 1924, by Dr. E. V. Ufford, was captured and released at Egg Island, Hyannis, Mass., on June 21, 1935.
- \*280757, banded at Tern Island, Chatham, Mass., on June 12, 1924, by Dr. E. V. Ufford, was captured and released at the same place, on June 4, 1936.
- \*280790, banded at Tern Island, Chatham, Mass., on June 12, 1924, by Dr. E. V. Ufford, was captured and released at the same place, June 11, 1935.
- \*382549, banded at Tern Island, Chatham, Mass., on July 4, 1925, by Charles B. Floyd, was trapped at the same place, June 6, 1935.
- \*403043, banded at Tern Island, Chatham, Mass., on July 6, 1926, by Charles B. Floyd, was trapped and released at the same place, on June 13, 1935, and on May 20, 1936.
- \*490477, banded at Starve Island, Put-in Bay, Ohio, on July 20, 1927, by Roscoe W. Franks, was picked up in an exhausted condition at Port Maitland, Ont., on August 24, 1934.
- 490499, banded at Starve Island, Put-in Bay, Ohio, on July 20, 1927, by Roscoe W. Franks, was captured by hand while stealing minnows at Port Maitland, Ont., on August 1, 1934.
- \*584344, banded at Starve Island, Ottawa County, Ohio, on July 20, 1927, by Edward S. Thomas, was found dead at Lake St. Clair, Mich., near Middle Channel, ½ mile north of Ship Channel, on June 17, 1936.
- \*591069, banded at Lone Tree Island, Saginaw Bay, Mich., on July 31, 1927, by Ben East, was found dead at Morgan's Point, Wainfleet, Ont., on August 17, 1933.
- \*A300031, banded at Biddeford Pool, Maine, on July 17, 1928, by James P. Melzer, was probably killed at Cabo Rajo, Puerto Rico, on September 7, 1934.

The following are groups of birds that were banded by Charles B. Floyd at Tern Island, Chatham, Mass., and retrapped by the Austin Ornithological Research Station:

- Ten juveniles, banded in July, 1926, were retrapped at the same place in June and July, 1935.
- Six juveniles, banded in July, 1926, were retrapped at the same place in May and June, 1936.
- Seven juveniles, banded in July, 1927, were retrapped at the same place in June and July, 1935.
- Thirteen juveniles, banded in July, 1927, were retrapped at the same place in May and June, 1936.
- One adult and twelve juveniles, banded in July, 1928, were retrapped at the same place in June and July, 1935.
- Two adults and fifteen juveniles, banded in July, 1928, were retrapped at the same place in May and June, 1936.
- Fifteen adults and eighteen juveniles, banded in July, 1929, were retrapped at the same place in June and July, 1935.
- Ten adults and seventeen juveniles, banded in July, 1929, were retrapped at the same place in May and June, 1936.
- One adult and thirteen juveniles, banded in July, 1929, were retrapped at other points on Cape Cod in June and July, 1935.
- Eight juveniles, banded in July, 1929, were retrapped at other points on Cape Cod in June, 1936.

ARCTIC TERN. *Sterna paradisæa*

- \*548131, banded at Red Islands, Turnevik, Labrador, on July 23, 1928, by O. L. Austin, Jr., was found dead at the same place, August 16, 1934.
- \*550393, banded at Tern Island, Chatham, Mass., on July 3, 1927, by Charles B. Floyd, was retrapped at the same place, June 16, 1936.

650750, banded at Hopkins Island, Orleans, Mass., on June, 15, 1929, by the Austin Ornithological Research Station, was retrapped at the same place, June 29, 1935.

712780, banded at Tern Island, Chatham, Mass., on July 14, 1929, by Charles B. Floyd, was retrapped at the same place, June 27, 1935.

ROSEATE TERN. *Sterna dougalli*

\*A300443, banded at Weepecket Island, Gosnold, Mass., on July 4, 1929, by Ethel M. Crowell, was retrapped at Tern Island, Chatham, Mass., on June 27, 1935.

\*A32864-, banded at Tern Island, Chatham, Mass., on July 11, 1929, by Charles B. Floyd, was found dead at Mineola, N. Y., on July 23, 1934.

\*A329006, banded at Tern Island, Chatham, Mass., on July 4, 1929, by Charles B. Floyd, was retrapped at the same place, May 30, 1936.

\*A329934, banded at Tern Island, Chatham, Mass., on July 6, 1929, by Charles B. Floyd, was found dead at the same place, June 27, 1934.

LEAST TERN. *Sterna antillarum*

687070, banded at Robinson, or Rossignol Island, Chatham County, Ga., on June 9, 1928, by Gilbert R. Rossignol, was killed at Amelia Island, Ga., July 6, 1934.

ROYAL TERN. *Thalasseus maximus*

\*A526604, banded in Charleston County, S. C., on July 11, 1931, by E. M. Burton, was found dead two miles north of Coronado Beach, Fla., about January 22, 1936.

CASPIAN TERN. *Hydroprogne caspia imperator*

\*456714, banded at South Limestone Island, Georgian Bay, Ont., on July 8, 1927, by Adam Brown, was caught in a twine noose, band removed, and bird released at Cedar Point, Ala., about December 1, 1934.

\*565845, banded at St. James, Mich., on July 14, 1927, by William I. Lyon, flew into electric wires and was killed near Saginaw, Mich., on August 15, 1933.

BLACK SKIMMER. *Rynchops nigra*

\*378761, banded at Brant Beach, N. J., on July 22, 1928, by George H. Beatty, Jr., was caught on a fish-hook and released with an injured wing at Ocean City, N. J., on May 30, 1936.

\*A503455, banded at Brant Beach, N. J., on July 14, 1929, by J. A. Gillespie, was injured by an airplane, but revived and flew away at St. Petersburg, Fla., on May 2, 1935.

MOURNING DOVE. *Zenaidura macroura*

439178, banded at Melrose Park, Philadelphia, Pa., on April 2, 1927, by Dr. William Pepper, was retrapped at the same place, on May 6, 1929, July 20, 1930, February 20, 1932, and May 27, 1934.

522280-, banded at Kansas, Ill., on July 27, 1927, by W. B. Taber, Jr., was found dead at Cedar Glades, Ark., on February 29, 1936.

BARN OWL. *Tyto alba pratincola*

\*233521, banded at Claremont, Calif., on May 16, 1925, by E. Lowell Sumner, Jr., was found dead clutching a full-grown Blue Jay at Ontario, Calif., on August 27, 1935.

\*421858, banded in Chester County, 10 miles from Pottstown, Pa., on July 16, 1929, by James Spear, Jr., was found dead at Lambertville, N. J., about June 4, 1934.

SCREECH OWL. *Otus asio*

368574, banded at Babson Park, Wellesley, Mass., on December 23, 1928, by Lester W. Smith, was captured alive when a dead tree was cut down, and released unharmed at Needham, Mass., on February 19, 1935.

CHIMNEY SWIFT. *Chætura pelagica*

- 469128, banded at Lawrence, Ind., on August 7, 1927, by S. E. Perkins, III, was retrapped at the same place on September 10, 1934.
- A51208, banded at Clayton, Ill., on September 21, 1929, by T. E. Musselman, was found dying in an empty house at Kellerville, Ill., about June 1, 1935.
- A75824, banded at Madison, Wis., on May 16, 1927, by Harold C. Wilson, was found dead at Sauk City, Wis., on July 5, 1935.
- A76105, banded at Madison, Wis., on May 17, 1927, by Harold C. Wilson, was found dead at the same place, about May 13, 1934.
- A102943, banded at Tallahassee, Fla., on September 28, 1928, by Charles O. Handley and H. L. Stoddard, was found wounded at Sebring, Fla., on June 23, 1936.
- A105859, banded at Tallahassee, Fla., on October 11, 1928, by Charles O. Handley and H. L. Stoddard, was found dead at Kenbridge, Va., on May 16, 1936.
- B102128, banded at Harvard, Mass., on June 24, 1931, by J. L. Peters, was released after coming down a chimney at the same place, on May 30, 1936.
- C18809, banded at Clayton, Ill., on September 21, 1929, by Russell S. Davis, was caught in a building and released unharmed at the same place on June 16, 1936.
- B52724, banded at Kingston, Ont., on June 9, 1928, by R. Owen Merriman, was found sick at Mt. Chesney, Ont., on June 16, 1934.
- Twelve adults and one juvenile were banded at Kingston, Ont., in June and July 1928, by R. Owen Merriman, were retrapped at the same place by him in May 1933.
- C24430, banded at Chattanooga, Tenn., on September 21, 1929, by Wyman R. Green, was found dead at the bottom of a smoke stack at Alexandria, Ont., on May 28, 1935.
- C36271, banded at Chattanooga, Tenn., on October 8, 1929, by Wyman R. Green, was retrapped at Charleston, W. Va., on August 23, 1934.
- F14321, banded at Jasper, Tenn., on October 9, 1930, by Wyman R. Green, was probably found dead near Bourne, Ky., about May 1, 1936.
- F3362, banded at Chattanooga, Tenn., on October 5, 1930, by Wyman R. Green, was found dead, had flown into blades of wind-charger at Urbana, Ohio, about June 1, 1936.
- A107655, banded at Charleston, W. Va., on September 14, 1928, by I. H. Johnston, was caught in a house at Tariff, W. Va., on June 21, 1935.
- A108434, banded at Charleston, W. Va., on September 18, 1928, by I. H. Johnston, flew into a building and died soon after at Leechburg, Pa., on June 25, 1934.
- C29817, banded at Charleston, W. Va., on September 22, 1929, by I. H. Johnston, was found dead at Claysville, Pa., about June 12, 1936.
- In September, 1934, I. H. Johnston, at Charleston, W. Va., retrapped 31 Swifts that he had banded at least 5 years before, as follows: 1 banded in 1926; 6 banded in 1927; 3 banded in 1928; and 21 banded in 1929.

FLICKER. *Colaptes auratus*

- \*414190, banded at Lakewood, Ohio, on September 1, 1927, by E. C. Hoffman, was found dead at the same place about August 24, 1932.
- B326311, banded at Northville, S. D., on September 13, 1931, by Dr. J. F. Brenckle, was killed at Muldrow, Okla., about May 20, 1936.

RED-HEADED WOODPECKER. *Melanerpes erythrocephalus*

- 462748, banded at Battle Creek, Mich., on June 23, 1926, by Carl E. Traut, was found dead at the same place, on May 21, 1935.

HAIRY WOODPECKER. *Dryobates villosus*

- 670171, banded at Muscow, Sask., on November 2, 1928, by R. H. Carter, Jr., was retrapped at the same place on December 29, 1935.

DOWNY WOODPECKER. *Dryobates pubescens*

- 424716, banded at Amherst, Mass., on April 18, 1929, by Mrs. Joseph S. Chamberlin, was retrapped at the same place on July 8, 1934.  
 479621, banded at Fenton, Mich., on February 11, 1930, by Harvey Swanebeck, was retrapped at the same place on February 9, 1935.  
 A216078, banded at Ottawa, Ont., on December 12, 1931, by Ralph E. DeLury, was retrapped at the same place on April 17, 1933, May 13, 1934, April 11, 1935, and April 26, 1936.

CRESTED FLYCATCHER. *Myiarchus crinitus*

- A147214, banded at Norristown, Pa., on June 12, 1929, by Raymond J. Middleton, was retrapped at the same place on July 8, 1934, and May 23, 1935.

PHEEBE. *Sayornis phæbe*

- 469017, banded at Culver, Ind., on July 2, 1927, by S. E. Perkins, III, was retrapped at the same place on July 5, 1935, again breeding under the same bridge.

TREE SWALLOW. *Iridoprocne bicolor*

- \*B3267, banded at North Eastham, Mass., on June 26, 1929, by the Austin Ornithological Research Station, was retrapped at the same place on June 8, 1934, and June 13, 1935.  
 \*B3271, banded at North Eastham, Mass., on June 26, 1929, by the Austin Ornithological Research Station, was retrapped at the same place on June 8, 1934, and June 5, 1935.  
 \*B3275, banded at North Eastham, Mass., on June 26, 1929, by the Austin Ornithological Research Station, was retrapped at the same place on June 6, 1934, and June 6, 1935.  
 \*C6633, banded at Brewer, Me., on June 29, 1929, by Helen J. Robinson, was found dead at Hampden, Me., on May 26, 1936.  
 C20163, banded at Pomfret, Conn., on May 30, 1930, by Mrs. Kenneth B. Wetherbee, was retrapped at the same place on June 2, 1934, and, June 16, 1935.  
 F35001, banded at North Eastham, Mass., on May 25, 1931, by the Austin Ornithological Research Station, was retrapped at the same place on May 12, 1934, May 18, 1935, and May 29, 1936.

BARN SWALLOW. *Hirundo erythrogaster*

- \*A8484, banded at Winchester, Ind., on June 27, 1927, by O. B. Christy, was captured in a chimney and released unharmed 17 miles northwest of Mexico, Mo., on July 14, 1933.  
 F41444, banded at Argusville, N. D., on May 22, 1931, by Gale W. Monson, was found with a broken wing at the same place on May 16, 1936.

PURPLE MARTIN. *Progne subis*

- 480252, banded at Bovey, Minn., on May 8, 1928, by H. E. Barcus, was caught alive and released unharmed at the same place on April 30, 1933.

BLUE JAY. *Cyanocitta cristata*

- 9612, banded at Ann Arbor, Mich., on January 2, 1922, by Scott Warthin, was retrapped at the same place on November 17, 1933.  
 212532, banded at Ann Arbor, Mich., on July 26, 1925, by Almerin D. Tinker, was retrapped at the same place on February 6, 1936.  
 277749, banded at Winnetka, Ill., on August 8, 1926, by Peter I. Johansen, was found injured and died at Wilmette, Ill., on June 21, 1934.  
 288316, banded at Baldwin, N. Y., on November 26, 1925, by K. W. Baasch, was found dead at the same place in June, 1934.  
 355279, banded at Quincy, Ill., on July 25, 1926, by T. E. Musselman, was caught at Tucker, Ark., on January 25, 1934.  
 361613, banded at Ann Arbor, Mich., on November 13, 1926, by A. D. Tinker, was retrapped at the same place on December 1, 1933.

- 436577, banded at Ann Arbor, Mich., on July 3, 1927, by A. D. Tinker, was retrapped at the same place on May 26, 1934.
- 439024, banded at Cincinnati, Ohio, on May 23, 1926, by C. J. Goetz, was retrapped at the same place on September 9, 1935.
- 509189, banded at Waukegan, Ill., on July 28, 1928, by William I. Lyon, was retrapped at the same place on May 16, 1935.
- 525632, banded at Minneapolis, Minn., on November 3, 1928, by Mrs. John A. Thompson, was found dead at the same place on July 6, 1934.
- 526094, banded at Goshen, Ind., on February 12, 1928, by S. W. Witmer, was retrapped at the same place on January 22, 1936.
- 591701, banded at Mountain Lake, Fla., on February 1, 1928, by Henry O. Havemeyer, was retrapped at the same place January 17, 1934.
- A201309, banded at White Plains, N. Y., on October 11, 1928, by Colvin Farley, was found sick and died at the same place about June 1, 1935.
- A320341, banded at Kansas, Ill., on June 19, 1930, by William B. Taber, Jr., was retrapped at the same place April 28, 1935.
- A404057, banded at Gulfport, Fla., on April 15, 1929, by Daisy M. Morrison, was found dead at the same place on July 17, 1935.
- \*A410856, banded at Minneapolis, Minn., on July 26, 1929, by Mrs. J. A. Thompson, was found dead at St. Paul, Minn., on January 27, 1935.

CROW. *Corvus brachyrhynchos*

- 407029, banded at Richmond, Ill., on May 28, 1927, by Donald Johnson, was shot in Kenosha County, Wis., about March 13, 1934.
- 211125, banded at Lunda, Man., on May 1, 1926, by Adolf Holm, was shot in Grant County, S. D., on April 2, 1933.
- 656076, banded at Garden Prairie, Ill., on May 19, 1929, by Donald J. Johnson, was shot at Marengo, Ill., on March 25, 1934.

CHICKADEE. *Parus atricapillus*

- 59867, banded at Wareham, Mass., on January 23, 1926, by Walter B. Savary, was retrapped at the same place on February 12, 1932.
- 88689, banded at Milton, Mass., on October 12, 1929, by W. R. Peabody, was retrapped at the same place on January 5, 1935, and September 11, 1935.
- 93789, banded at Cohasset, Mass., on July 27, 1924, by Mrs. K. C. Harding, was retrapped at the same place, on February 9, 1931.
- B26924, banded at Sandwich, Mass., on December 11, 1928, by Mrs. George E. Burbank, was retrapped for the sixth time on January 8, 1936.
- \*B53122, banded at Montclair, N. J., on July 16, 1930, by Mrs. Charles S. Hege-man, was retrapped at Allendale, N. J., on January 23, 1936.
- B58538, banded at Chester, Mass., on February 11, 1929, by H. E. Woods, was retrapped at the same place February 15, 1934.
- B58540, banded at Chester, Mass., on February 24, 1929, by H. E. Woods, was retrapped at the same place February 17, 1934, and November 15, 1934.
- C1530, banded at Wells River, Vt., on January 24, 1930, by Wendell P. Smith, was retrapped at the same place for the fifth time on January 20, 1936.
- C21641, banded at Great Head, Bar Harbor, Maine, on October 16, 1929, by Mrs. E. Anthony, was retrapped at the same place April 23, 1934, March 15, 1935, and December 4, 1935.
- C45476, banded at Great Head, Bar Harbor, Maine, on December 7, 1929, by Mrs. E. Anthony, was retrapped at the same place March 10, 1935, July 31, 1935, and March 29, 1936.
- C50526, banded at Hardwick, Mass., on January 27, 1930, by Dorothy A. Baldwin, was retrapped at the same place November 25, 1933, and January 26, 1935.
- C52627, banded at Great Head, Bar Harbor, Maine, on March 11, 1930, by Mrs. E. Anthony, was trapped at the same place April 19, 1935, and December, 5, 1935.

A87173, banded at Hardwick, Mass., on December 19, 1927, by Dorothy A. Baldwin, was retrapped at the same place on October 26, 1933, and February 1, 1935.

TUFTED TITMOUSE. *Baeolophus bicolor*  
A128478, banded at Fort Smith, Ark., on May 26, 1929, by S. H. Weakley, was retrapped at the same place on February 10, 1934.

WHITE-BREASTED NUTHATCH. *Sitta carolinensis*  
C152699, banded at Demarest, N. J., on April 25, 1929, by B. S. Bowdish, was retrapped at the same place on April 29, 1934.

WREN-TIT. *Chamaea fasciata*  
91519, banded at Berkeley, Calif., on March 22, 1935, by E. D. Clabaugh, was retrapped at the same place on December 3, 1932, and February 21, 1934.

HOUSE WREN. *Troglodytes aedon*  
B97054, banded at Gates Mills, Ohio, on August 1, 1929, by S. P. Baldwin, was retrapped at the same place on June 12, 1934.  
C68918, banded at Gates Mills, Ohio, on July 15, 1930, by S. P. Baldwin, was retrapped at the same place on June 27, 1935.  
C68966, banded at Gates Mills, Ohio, on July 22, 1930, by S. P. Baldwin, was retrapped at the same place on June 24, 1935.

MOCKINGBIRD. *Mimus polyglottos*  
693985, banded at Fort Smith, Ark., on September 30, 1928, by S. H. Weakley, was retrapped at the same place on March 22, 1934.  
A309739, banded at Gulfport, Fla., on March 20, 1929, by Daisie M. Morrison, was retrapped at the same place on April 15, 1934, and found dead at the same place on September 10, 1934.

CATBIRD. *Dumetella carolinensis*  
\*167738, banded at Sioux City, Iowa, on July 19, 1929, by Mrs. Marie Dales, was retrapped at the same place on May 23, 1935.  
390941, banded at Demarest, N. J., on May 25, 1926, by B. S. Bowdish, was retrapped at the same place on May 23, 1934, and May 8, 1935.  
664725, banded at Gates Mills, Ohio, on July 3, 1928, by S. P. Baldwin, was retrapped at the same place on May 8, 1934.  
693794, banded at Glen Olden, Pa., on May 7, 1930, by Mr. and Mrs. John A. Gillespie, was retrapped at the same place on May 12, 1934, and May 20, 1935.  
A134773, banded at East Lansing, Mich., on May 17, 1930, by J. W. Stack, was retrapped at the same place on May 15, 1935.

BROWN THRASHER. *Toxostoma rufum*  
461076, banded at Waynesville, N. C., on August 19, 1926, by Marion A. Boggs, was retrapped at the same place on May 22, 1935.  
646271, banded at Lansing, Mich., on April 28, 1930, by F. E. and C. C. Ludwig, was retrapped at the same place for the seventh year in succession on May 5, 1936.  
A214010, banded at Sioux City, Iowa, on May 17, 1929, by Mrs. Marie Dales, was retrapped at the same place on September 9, 1934.  
A219642, banded at Fargo, N. D., on May 27, 1929, by O. A. Stevens, was retrapped at the same place on May 13, 1934.  
A270333, banded at Summerville, S. C., on March 8, 1931, by William P. Wharton, was retrapped at the same place on March 13, 1936.  
A312097, banded at Oak Bluffs, Mass., on July 30, 1929, by Mr. and Mrs. John A. Gillespie, was retrapped at the same place on July 20, 1935.  
A322167, banded at Norristown, Pa., on August 17, 1929, by Raymond J. Middleton, was retrapped for the third time at the same place, June 1, 1935.

- A387955, banded at Brookline, Mass., on September 16, 1930, by Harriet A. Frothingham, was retrapped at the same place on August 3, 1932, and August 26, 1935.  
A412506, banded at Indianapolis, Ind., on June 29, 1930, by S. E. Perkins III, was retrapped at the same place on April 20, 1935.

ROBIN. *Turdus migratorius*

- \*410911, banded at Philadelphia, Pa., on August 18, 1925, by Dr. William Pepper, was retrapped at the same place on September 25, 1929, and May 5, 1932.  
A200647, banded at Sioux Falls, S. D., on June 14, 1929, by Mrs. Blanche M. Getty, was retrapped at the same place on May 15, 1935.  
A214035, banded at Sioux City, Iowa, on July 20, 1929, by Mrs. Marie Dales, was retrapped at the same place on May 26, 1934.  
A216375, banded at Pomfret, Conn., on July 24, 1929, by Mrs. Kenneth B. Wetherbee, was retrapped at the same place on June 3, 1933, and June 9, 1934.  
\*A302777, banded at Waukegan, Ill., on August 10, 1929, by William I. Lyon, was found injured and died soon after at Chicago, Ill., on April 17, 1934.  
A319336, banded at Hillsdale, Mich., on June 5, 1929, by Frank Smith, was retrapped at the same place on May 24, 1934.  
A320616, banded at Sault Ste. Marie, Mich., on September 8, 1929, by M. J. Magee, was caught by a cat and died at the same place on May 1, 1934.

WOOD THRUSH. *Hylocichla mustelina*

- A202086, banded at Demarest, N. J., on June 30, 1929, by B. S. Bowdish, was retrapped at the same place on April 29, 1935.

STARLING. *Sturnus vulgaris*

- 278120, banded at Durham Center, N. Y., on February 27, 1929, by Vernon Haskins, was retrapped at the same place on January 1, 1934.  
A213070, banded at Columbus, Ohio, on February 16, 1929, by Edward S. Thomas was retrapped at Canal Winchester, Ohio, on January 28, 1933, and January 27, 1934.  
A239203, banded at Philadelphia, Pa., on November 14, 1929, by Henry P. Baily, was found dead at the same place on February 2, 1935.

YELLOW WARBLER. *Dendroica aestiva*

- F35028, banded at North Eastham, Mass., on May 28, 1931, by the Austin Ornithological Research Station, was retrapped at the same place on May 18, 1936.

PINE WARBLER. *Dendroica pinus*

- 59882, banded at Wareham, Mass., on April 16, 1926, by Walter B. Savary, was retrapped at the same place on April 9, 1932.

RED-WING. *Agelaius phoeniceus*

- 356743, banded at Branchport, N. Y., on July 30, 1925, by Verdi Burtch, was retrapped at the same place on June 20, 1933.  
478391, banded at Zion, Ill., on June 4, 1928, by C. E. Holcombe, was retrapped at the same place on March 24, 1933.  
486920, banded at Pickford, Mich., on April 27, 1928, by Dr. Karl Christofferson, was killed at the same place on June 25, 1934.  
A216978 and A216984, banded at Waverly Mills, S. C., on April 25, 1931, by Dr. William Pepper, were both retrapped at the same place on April 5, 1936.  
\*A221262, banded at Crystal Bay, Minn., on July 29, 1930, by Frank W. Commons, was shot at Frankston, Tex., on November 11, 1935.  
A234775, banded at Groton, Mass., on May 25, 1930, by William P. Wharton, was retrapped at the same place on June 14, 1935.  
\*A261318, banded at Neskowin, Ore., on September 26, 1930, by Reed W. Ferris, was found injured at Tillamook, Ore., on June 14, 1935.

- A354427, banded at Branchport, N. Y., on June 10, 1927, by Verdi Burtch, was retrapped at the same place, May 11, 1933.  
 B300781, banded at Waukegan, Ill., on May 5, 1929, by William I. Lyon, was retrapped at the same place, April 20, 1934.

TRICOLORED RED-WING. *Agelaius tricolor*

- \*592982, banded at Redlands, Calif., on June 9, 1928, by Carl Levingston and L. G. Ingles, was found dead at the same place about March 30, 1933.

RUSTY BLACKBIRD. *Euphagus carolinus*

- \*A310641, banded at Mooreland, Ind., on May 17, 1929, by L. D. Felton, was killed at Covington, Tenn., on January 4, 1935.

BREWER'S BLACKBIRD. *Euphagus cyanocephalus*

- 132833, banded at Escondido, Calif., on March 5, 1928, by Fred N. Gallup, was probably killed at the same place about January 25, 1933.

COWBIRD. *Molothrus ater*

- 623456, banded at Mont Belvieu, Tex., on March 24, 1928, by Dr. A. R. Shearer, was shot 9 miles south of Dayton, Tex., about December 28, 1935.  
 A120478, banded at Groton, Mass., on May 11, 1929, by William P. Wharton, was retrapped at the same place, May 23, 1934.

CARDINAL. *Richmondia cardinalis*

- 206102, banded at Gates Mills, Ohio, on April 25, 1927, by S. P. Baldwin, was retrapped at the same place on July 6, 1933.  
 356325, banded at La Crosse, Wis., on April 23, 1926, by Charles G. Hyland, was found wounded at the same place on January 23, 1935.  
 474863, banded at Summerville, S. C., on January 11, 1928, by William P. Wharton, was found dead at the same place on December 27, 1934.  
 477336, banded at Oracle, Ariz., on February 2, 1928, by Mrs. J. W. Lawson, was found dead at the same place sometime during the winter of 1934-35.  
 478679, banded at Glen Olden, Pa., on January 4, 1928, by Mr. and Mrs. John A. Gillespie, was retrapped at the same place on January 6, 1934, and December 30, 1935.  
 A203987, banded at Summerville, S. C., on January 11, 1930, by William P. Wharton, was retrapped at the same place on February 8, 1936.

ROSE-BREADED GROSBEAK. *Hedymeles ludovicianus*

- A265523, banded at Hubbard Woods, Ill., on May 29, 1930, by Dr. Harold H. Hayes, was retrapped at the same place on May 18, 1935.

EVENING GROSBEAK. *Hesperiphona vespertina*

- 331389, banded at Sault Ste. Marie, Mich., on April 4, 1926, by M. J. Magee, was retrapped at the same place on May 27, 1934.  
 691353, banded at Sault Ste. Marie, Mich., on January 27, 1929, by M. J. Magee, was found dead at Gardiner, Maine, on April 2, 1934.  
 691370, banded at Sault Ste. Marie, Mich., on January 30, 1929, by M. J. Magee, was found injured and died soon after at Boon, Mich., on April 21, 1934.  
 A200964, banded at Ah-gwah-ching, Minn., on May 5, 1929, by Dr. H. A. Burns, was trapped at Winnipeg, Man., on March 22, 1935.  
 A217352, banded at Sault Ste. Marie, Mich., on March 20, 1929, by M. J. Magee, was trapped at Blaney Park, Mich., on April 25, 1936.

PURPLE FINCH. *Carpodacus purpureus*

- 89108, banded at New Haven, Conn., on December 3, 1927, by Mrs. F. D. Hubbard, was found frozen to death at the same place on February 14, 1934.  
 \*A100520, banded at Northeast Harbor, Maine, on August 26, 1928, by Henry P. Baily, was retrapped at Great Head, Bar Harbor, Maine, on May 23, 1934.

- B26591, Ad. ♂ banded at Peterboro, N. H., on September 5, 1929, by Charles L. Whittle, was retrapped at the same place on August 9, 1935.  
B53324, Ad. ♂ banded at Northeast Harbor, Maine, on July 25, 1930, by Henry P. Baily, was retrapped at Great Head, Bar Harbor, Maine, on May 10, 1935.  
B114092, banded at Northeast Harbor, Maine, on August 20, 1930, by Henry P. Baily, was retrapped at Bar Harbor, Maine, on May 1, 1935.  
\*C123749, banded at Athol, Mass., on July 21, 1931, by Robert Allison, was retrapped at the same place on April 28, 1936.

HOUSE FINCH. *Carpodacus mexicanus frontalis*

- \*B17018, banded at Los Angeles, Calif., on October 21, 1927, by Blanche Vignos, was retrapped at the same place, on December 4, 1933.  
B19906, banded at Los Angeles, Calif., on January 14, 1928, by Blanche Vignos, was retrapped at the same place on January 26, 1934.  
\*B19938, banded at Los Angeles, Calif., on February 27, 1928, by Blanche Vignos, was retrapped at the same place on December 14, 1933, and retrapped again at the same place on January 20, 1935.  
\*B25351, banded at Pasadena, Calif., on July 2, 1928, by Mr. and Mrs. Harold Michener, was found dead at Santa Ana, Calif., about December 1, 1934.  
B109382, banded at Los Angeles, Calif., on December 31, 1930, by J. L. Partin, was retrapped at the same place, on December 26, 1935.  
C19986, Ad. ♂ banded at Los Angeles, Calif., on July 4, 1926, by C. A. Barnes, was retrapped at the same place, on June 18, 1933.

PINE GROSBEAK. *Pinicola enucleator*

- 254668, banded at Winnipeg, Man., on February 18, 1926, by P. Kuntz, was found dead 6 miles southwest of Winnipeg Beach, Man., on February 17, 1931.

PINE SISKIN. *Spinus pinus*

- 576403, banded at Indianpoint Lake, Barkerville, B. C., on July 16, 1928, was retrapped at the same place, on June 1, 1934.

GOLDFINCH. *Spinus tristis*

- B50411, banded at Fort Smith, Ark., on February 2, 1929, by S. H. Weakley, was retrapped at the same place on January 31, 1934.  
B84983, banded at Fort Smith, Ark., on January 11, 1930, by S. H. Weakley, was found dead at the same place on May 7, 1936.  
F27022, banded at Milford, N. H., on April 16, 1931, by James P. Melzer, was retrapped at the same place on January 14, 1936.

VESPER SPARROW. *Poocetes gramineus*

- B148446, banded at North Eastham, Mass., on September 20, 1931, by the Austin Ornithological Research Station, was retrapped at the same place on July 16, 1934, April 30, 1935, and June 2, 1936. The last date is marked fifth return.  
C83072, banded at North Eastham, Mass., on July 12, 1930, by the Austin Ornithological Research Station, was retrapped at the same place on July 11, 1934, and April 24, 1935.  
C83239, banded at North Eastham, Mass., on August 2, 1930, by the Austin Ornithological Research Station, was retrapped at the same place on September 22, 1934, and August 2, 1935. This bird was taken in five consecutive years.

TREE SPARROW. *Spizella arborea*

- 174353, banded at Belchertown, Mass., on December 9, 1926, by George E. McPherson, was retrapped at the same place on March 21, 1933.  
A42289, banded at Branchport, N. Y., on January 27, 1926, by Verdi Burtch, was retrapped at the same place on February 11, 1931, and February 12, 1933.

- A161367, banded at Norristown, Pa., on January 11, 1930, by Raymond J. Middleton, was retrapped at the same place on December 10, 1933, December 22, 1934, and for the sixth time, on December 20, 1935.
- A177133, banded at Hardwick, Mass., on November 21, 1929, by Dorothy A. Baldwin, was retrapped at the same place on November 14, 1933, and December 10, 1934.
- A190389, banded at Ithaca, N. Y., on April 9, 1930, by A. C. Fraser, was retrapped at the same place on January 31, 1935, and December 24, 1935.
- B22148, banded at Concord, N. H., on February 12, 1928, by F. B. White, was retrapped at the same place on January 20, 1934.
- B48126, banded at Westfield, Mass., on November 17, 1928, by Sadie B. Knox, was retrapped at the same place, on January 24, 1935.
- B79727, banded at Concord, N. H., on February 24, 1929, by F. B. White, was retrapped at the same place on February 5, 1934, and January 25, 1935.
- B129607, banded at Ithaca, N. Y., on January 27, 1931, by A. C. Fraser, was retrapped at the same place on January 1, 1932, November 27, 1932, November 18, 1933, December 3, 1934, and December 13, 1935.
- C19608, banded at North Eastham, Mass., on November 21, 1929, by the Austin Ornithological Research Station, was captured alive and released unharmed at Lexington, Miss., about March 20, 1935.

CHIPPING SPARROW. *Spizella passerina*

- C62551, banded at Summerville, S. C., on April 9, 1930, by William P. Wharton, was retrapped at the same place on March 13, 1935.
- B37036, banded at Summerville, S. C., on March 27, 1928, by William P. Wharton, was retrapped for the fourth time at the same place on March 3, 1936.
- B66987, banded at Summerville, S. C., on January 28, 1929, by William P. Wharton, was retrapped at the same place on February 2, 1935.
- B27015, banded at Ephraim, Wis., on May 7, 1928, by Henry A. Anderson, was retrapped at the same place on May 16, 1934.
- C50168, banded at Summerville, S. C., on March 23, 1930, by William P. Wharton, was retrapped at the same place on March 13, 1935.
- C66701, banded at Great Head, Bar Harbor, Maine, on May 19, 1930, by Effie A. Anthony, was retrapped at the same place on May 17, 1934, May 24, 1935, and May 7, 1936.
- C61088, banded at Treesebank, Man., on May 26, 1930, by Norman Criddle, was retrapped at the same place on May 10, 1934, and May 14, 1935.
- C66710, banded at Great Head, Bar Harbor, Maine, on May 22, 1930, by Effie A. Anthony, was retrapped at the same place on May 13, 1934, May 20, 1935, and May 1, 1936.
- F35069, banded at North Eastham, Mass., on May 29, 1931, by the Austin Ornithological Research Station, was retrapped at the same place on August 7, 1934, on July 28, 1935, and the fifth return on May 14, 1936.

FIELD SPARROW. *Spizella pusilla*

- F26295, banded at Huntington, N. Y., on May 3, 1931, by Geoffrey Gill, was retrapped at the same place on May 2, 1932, May 1, 1933, May 16, 1934, and April 23, 1936.

HARRIS'S SPARROW. *Zonotrichia querula*

- A142939, banded at Fairbury, Neb., on February 25, 1930, by Agnes and Susie Callaway, was retrapped at the same place on April 7, 1935.
- B128632, banded at Jamestown, N. D., on May 17, 1931, by Glenn Berner, was killed at Carnegie, Okla., about May 1, 1936.

WHITE-CROWNED SPARROW. *Zonotrichia leucophrys*

- 122750, banded at Buena Park, Calif., on November 25, 1923, by J. M. Robertson, was retrapped at the same place on December 24, 1929.

- 173811, banded at Stanford University, Calif., on February 2, 1926, by L. Emery Myers, was retrapped at the same place on January 11, 1931.  
A100801, banded at Altadena, Calif., on February 27, 1929, by W. I. Allen, was retrapped at the same place on December 31, 1934.  
A178900, banded at Berkeley, Calif., on October 21, 1930, by Ernest D. Cla-  
baugh, was retrapped at the same place on March 20, 1936.  
B17483, banded at Claremont, Calif., on December 9, 1928, by Mr. and Mrs.  
Harlan H. Edwards, was retrapped at the same place on January 24, 1934.

GOLDEN-CROWNED SPARROW. *Zonotrichia coronata*

- 150448, banded at Stanford University, Calif., on December 9, 1924, by Gustav  
Offerman, was retrapped at the same place on March 30, 1929, January 5,  
1930, December 5, 1930, and March 7, 1931.

WHITE-THROATED SPARROW. *Zonotrichia albicollis*

- 578074, banded at Glen Olden, Pa., on February 22, 1929, by Mr. and Mrs.  
John A. Gillespie, was retrapped for the sixth consecutive winter at the  
same place on February 11, 1934.  
A101836, banded at Waynesville, N. C., on November 21, 1928, by Marion A.  
Boggs, was retrapped at the same place on December 20, 1934.  
A101873, banded at Waynesville, N. C., on April 21, 1929, by Marion A. Boggs,  
was found dead from striking a wire screen at the same place, on November  
8, 1935.  
A120336, banded at Summerville, S. C., on February 11, 1929, by William P.  
Wharton, was retrapped at the same place on February 28, 1935.  
A167328, banded at Summerville, S. C., on February 27, 1930, by William P.  
Wharton, was retrapped at the same place on January 21, 1936.  
B145536, banded at Summerville, S. C., on April 5, 1931, by William P. Wharton,  
was retrapped at the same place on January 5, 1935, and March 5, 1936

SNOW BUNTING. *Plectrophenax nivalis*

- C98315, banded at McMillan, Mich., on January 31, 1931, by Oscar McKinley  
Bryens, was retrapped at the same place on January 12, 1936.

Biological Survey, Washington, D. C.