

Examination disclosed the oak to be badly infested on the undersurfaces of perhaps half its leaves by a small gall of 2 to 4 millimeters diameter, caused by a gall-wasp (family Cynipidae). The sparrows were seen to be eating these galls, apparently whole, for the few dropping to the ground were not broken but seemingly just knocked off. Probably the younger galls were eaten for the most part, as the galls become dry and hard when older. Though the enclosed larvae must have proven acceptable food, it seems likely that the young and succulent plant tissue of the gall was equally acceptable. The concentration of sparrows remained great at least half of this day but dwindled during succeeding days, no sparrows being observed after December 10.

Although the economic value of these English Sparrows due to wholesale destruction of an insect which can cause extensive defoliation is undeniable in this case, it seems more appropriate to emphasize this observation as another example of the adaptability of the English Sparrow and of its propensity to congregate or to take advantage of a new food source even though this may demand new or peculiar habits of feeding. Such adaptability may well account in large measure for the progressive population of the United States by this bird. Although such plasticity is frequently exemplified in our native birds, it seems less characteristic of them. In the above oak, for example, two Song Sparrows were the only native birds seen apparently feeding on the galls.—FRANK RICHARDSON, *Museum of Vertebrate Zoology, Berkeley, January 13, 1938.*

**The Rusty Blackbird in Kern County, California.**—On December 16, 1937, while I was engaged in field work in the South Fork Valley of the Kern River, Kern County, California, Mrs. Stanley Smith, the wife of a rancher in the valley, called my attention to a "peculiar looking blackbird" which she had taken away from her cat. Being familiar only with our western blackbirds, I was unable to recognize this specimen. Therefore, upon returning to Los Angeles, I took the skin (now no. 1020, Stager collection) to the Los Angeles Museum, where Mr. George Willett identified it as *Euphagus carolinus*.

Credit is due Mrs. Smith, whose knowledge of bird life enabled her to recognize the specimen as of an unusual bird. According to Mrs. Smith, the cat caught two individuals of this species, but the second bird was too badly mauled to be worth saving. From all available literature, *carolinus* is a rare winter visitor in southern California. Three other records are known, two of which are from the Santa Barbara Islands and the third from Jamacha, San Diego County (Willett, Pac. Coast Avif. No. 21, 1933, p. 155).—KENNETH E. STAGER, *Los Angeles, California, March 4, 1938.*

**Two Late Fall Records of Birds in the San Francisco Bay Region.**—Dusky Poor-will, *Phalaenoptilus nuttallii californicus*. Before dawn on November 3, 1937, I was stationed on the first high ridge northeast of Temescal Lake, Alameda County, whistling poor-will calls. Soon, answering calls came from the next ridge to the north, and a poor-will appeared, its eyes shining red before my flash-light. It flew around me several times, uttering both the "poor-will" and "quup" notes, then perched for a while upon a fence post near-by. The latest previous record is for October 29, at Berkeley (Pacific Coast Avifauna No. 18, 1927, p. 92).

Cassin Solitary Vireo, *Vireo solitarius cassinii*. A Cassin Solitary Vireo was noted in Wildcat Canyon, Contra Costa County, on November 28, 1937. This is the latest definite record for the San Francisco Bay region. The vireo was foraging in live oaks and leafless poison-oak thickets with a mixed flock of juncos, Plain Titmouses, Ruby-crowned Kinglets, Myrtle Warblers, and Hutton Vireos. It was promptly collected for identification with a sling-shot employed for such emergencies and is now a skin (male, number 200) in my collection.—JOE T. MARSHALL, JR., *Berkeley, California, January 14, 1938.*

**"Homing Instinct" in the Golden-crowned Sparrow.**—How unusual are the following two records? Since I began banding birds I have been interested in their so-called "homing instinct." By this I do not mean the instinct which impels them in their seasonal migrations, but that which gives them the desire and the ability to return to the same location after having been removed to a distance.

Most of my experiments on this subject have been with Golden-crowned Sparrows (*Zonotrichia coronata*), and I have removed about 100 of these birds from the places where I trapped and banded them to distances of from one mile up to more than 300 miles. Many have been recaptured; some remained for many weeks at the location where they were released and were repeatedly trapped there, but never, with one exception, after the first northerly migration.

The exception was in the case of Golden-crowned Sparrow no. 34-119203, trapped and banded at my home in the Santa Cruz Mountains, San Mateo County, California, about 40 miles south of San Francisco, at an elevation of 2000 feet. This bird was banded on December 10, 1936. It was

trapped again in the same place on December 13, 1936, and was released the same day on the University of California campus, Berkeley. This same bird was trapped again on the university campus by Miss Kathryn S. Buchanan on October 5, 1937.

This instance is unique in my experience, as in every other case when I have released birds from the location where they were first trapped, if they were recaptured after the next migration it was always where they were trapped originally.

I wrote to Mr. Joseph Mailliard about this recapture, and asked him if he had ever had a similar record. Mr. Mailliard writes me that of the fifteen Golden-crowned Sparrows which I trapped in Strawberry Canyon, near Berkeley, on January 20, 1934, and released next day at his country home in Woodacre, Marin County, which is about twenty miles northwest of Berkeley, no. C175847 was retaken at Woodacre on February 3, 1934, and returned to the same place November 10, 1934, repeating November 19 and December 2, 1934. Since then it has not been trapped. Of the remaining fourteen birds, I trapped two again in Strawberry Canyon in January and February, 1934. It would be interesting to know if other banders have similar records.—E. L. SUMNER, SR., *Menlo Park, California, February 1, 1938.*

**A Species New to the Known Avifauna of Lower California.**—On September 19, 1937, Major E. A. Goldman, his son Luther G. Goldman, and the writer embarked on a sport-fishing craft, with its usual company of about 40 patrons, for a day of fishing near Los Coronados Islands, just below the international boundary line in Lower California. While we were drifting about half a mile off the eastern side of the South Island, a lone shearwater was seen to fly toward the boat from a northerly direction. It alighted upon the water, and immediately dove, seized a baited hook on one of the fishermen's lines, and swallowed it. It was reeled in on deck and the writer extracted the hook to save the bird for a museum specimen.

This bird proved to be an adult male Slender-billed Shearwater (*Puffinus tenuirostris*), in rather emaciated condition. It is now no. 17626 in the collection of the San Diego Society of Natural History. Grinnell in his summation of Lower California ornithology (Univ. Calif. Publ. Zool., vol. 32, 1928) does not list this species, nor does there appear to be any subsequent record of its having been taken in Lower California waters.

We were told by the boatmen that many birds are hooked in this way but that they are usually killed and thrown overboard to prevent their further disturbing the sport-fishermen!—LAURENCE M. HUEY, *San Diego Society of Natural History, Balboa Park, San Diego, California, February 17, 1938.*

**Distribution of the Races of the Williamson Sapsucker in British Columbia.**—Examination of specimens of the Williamson Sapsucker (*Sphyrapicus thyroideus*) from British Columbia in the collection of the British Columbia Provincial Museum led me to assemble all the readily available material from adjacent territory. Specimens were borrowed from the National Museum of Canada, the Museum of Vertebrate Zoology, Colorado Museum, Mr. Kenneth Racey, Dr. Alden H. Miller, and Mr. Stanley G. Jewett. To these institutions and individuals I wish to express my thanks.

The breeding range of *S. t. thyroideus* is known to extend from the Cascade Mountains of southern British Columbia to the Sierra Nevada of California and adjacent mountains. That of *S. t. nataliae* is stated to be (4th ed., A.O.U. Check-list, 1931, p. 194): "Boreal forests of the Rocky Mountain region from Montana to central Arizona and central New Mexico."

Measurements of length of wing and of tarsus fail to disclose any constant difference in those respects between the individuals of the two races. Apparently the sole distinguishing character is, as brought out by Swarth (Condor, vol. 19, 1917, pp. 62-65), the size of bill. That of *nataliae* is shorter and more slender than that of *thyroideus*.

In British Columbia the Williamson Sapsucker occurs in the Transition Zone of two areas. In the Okanagan region it is common in the mountains on the international boundary and occurs north, casually at least, to Schoonover Mountain. In this general region it is found east to Midway, west to Similkameen. The species is apparently absent from the large area between Midway and the East Kootenay. In the latter district, however, as shown by specimens from Cranbrook and Newgate, there is a small breeding population.

As regards bill size, the birds of the Okanagan region apparently are identical with specimens from western Oregon and from the Sierran region of California, and may be referred to the race *thyroideus*. Measurements of the East Kootenay specimens, as set forth on the accompanying graph (fig. 36), will be seen to fall well within the limits of variation for *nataliae*, as exemplified by a series from Arizona. The discovery of a population clearly representative of *nataliae* in eastern British Columbia marks a considerable extension of the known range of this race.