

FURTHER NOTES ON THE BIRDS PARASITIZED BY THE RED-EYED COWBIRD

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In the Auk (48, 1931, pp. 52-65) I brought up to date what was known to me of the birds parasitized by the Red-eyed Cowbird (*Tangavius aeneus*), beyond the material first elaborated in my book (The Cowbirds, 1929). Since then I have accumulated a considerable amount of new data, chiefly based on unpublished material in private collections. The following gentlemen have kindly sent me records for incorporation in this paper and to them I express my indebtedness: G. Bancroft, San Diego, California; C. E. Doe, Gainesville, Florida; A. M. Ingersoll, San Diego, California; A. E. Price, Grant Park, Illinois; M. Schönwetter, Gotha, Germany; and J. T. Wright (present whereabouts unknown—in the field in Mexico).

The following are additions to the known victims of the Red-eyed Cowbird and its subspecies. They bring the total of host species and subspecies up to 32 forms, an increase of 10 over my previous list.

Melopelia asiatica mearnsi Ridgway. Western White-winged Dove.
Tyrannus melancholicus occidentalis Hartert and Goodson. Western Kingbird.
Tyrannus melancholicus couchii Baird. Couch Kingbird.
Myiozetetes similis texensis (Giraud). Giraud Flycatcher.
Platypsaris aglaiae albiventris (Lawrence). Xantus Becard.
Catharus melpomene costaricensis Hellmayr. Costa Rican Thrush.
Vireo flavoviridis flavoviridis (Cassin). Yellow-green Vireo.
Piranga rubra cooperi Ridgway. Cooper Tanager.
Passerina ciris pallidior Mearns. Texas Painted Bunting.
Arremonops conirostris richmondi Ridgway. Richmond Sparrow.
Aimophila rufescens rufescens Swainson. Rusty Sparrow (hypothetical).

If we list them according to the subspecies of cowbird, we get the following:

- a. *Tangavius aeneus aeneus* (Wagler). Bronzed Cowbird.
Melopelia asiatica mearnsi Ridgway. Western White-winged Dove.
Tyrannus melancholicus occidentalis Hartert and Goodson. Western Kingbird.
Myiozetetes similis texensis (Giraud). Giraud Flycatcher.
Platypsaris aglaiae albiventris (Lawrence). Xantus Becard.
Piranga rubra cooperi Ridgway. Cooper Tanager.

From previous lists delete *Atlapetes gutturalis parvirostris* Dwight and Griscom. This brings the list of hosts of this race of the cowbird up to 13 forms.

- b. *Tangavius aeneus involucratus* Lesson. Red-eyed Cowbird.
Tyrannus melancholicus couchii Baird. Couch Kingbird.
Catharus melpomene costaricensis Hellmayr. Costa Rican Thrush.
Vireo flavoviridis flavoviridis (Cassin). Yellow-green Vireo.
Passerina ciris pallidior Mearns. Texas Painted Bunting.
Arremonops conirostris richmondi Ridgway. Richmond Sparrow.
Atlapetes gutturalis parvirostris Dwight and Griscom. Yellow-throated Sparrow.
Aimophila rufescens rufescens Swainson. Rusty Sparrow (hypothetical).

The hosts of this race now total 20 plus 1 hypothetical form. In the following annotated list these are treated in more detail as well as several forms concerning which new data of significance have been compiled.

1. *Melopelia asiatica mearnsi* Ridgway. Western White-winged Dove. One record. Mr. J. T. Wright informs me that at Guirocoba, District of Alamos, Sonora, during the latter part of May, 1931, he found a nest of the western white-winged dove with one egg of the dove and one of the bronzed cowbird.

2. *Tyrannus melancholicus occidentalis* Hartert and Goodson. Western Kingbird. One record; a nest found by A. Forrer at Mazatlan, Mexico, June 14, 1882, containing four eggs of the kingbird and one of the bronzed cowbird; the set now is in the collection of the Florida State Museum.
3. *Tyrannus melancholicus couchii* Baird. Couch Kingbird. One record, a set of 3 eggs with 2 of the red-eyed cowbird, collected at Brownsville, Texas, May 24, 1902, by F. B. Armstrong, and now in the collection of Mr. A. E. Price of Grant Park, Illinois, to whom I am indebted for this record.
4. *Muscivora forficata* (Gmelin). Scissor-tailed Flycatcher. To the very little previously recorded of this bird as a host of the red-eyed cowbird may be added one more record: a set of 2 eggs of the host and 1 of the red-eyed cowbird, collected in Lee County, Texas, May 20, 1887, now in the Field Museum.
5. *Myiozetetes similis texensis* (Giraud). Giraud Flycatcher. One record. A set of 4 eggs of the flycatcher and 1 of the bronzed cowbird, collected at Presidio, Sinaloa, Mexico, May 15, 1881, by Professor A. Forrer, and now in the collection of Mr. A. M. Ingersoll.
6. *Platyparis aglaiae albiventris* (Lawrence). Xantus Becard. One record has come to my notice. In his Price List of Exotic Birds'-Eggs for 1899, W. Schlueter lists a set of this bird (under the name *Hadrostomus albiventris*) with an egg of *Tangavius aeneus aeneus*.
7. *Catharus melpomene costaricensis* Hellmayr. Costa Rican Thrush. Cherrie (Auk, 8, 1891, p. 273) saw one of these thrushes feeding a fledgling red-eyed cowbird near San Jose, Costa Rica.
8. *Vireo flavoviridis flavoviridis* (Cassin). Yellow-green Vireo. One record. Mr. E. J. Court informs me that he had at one time in his collection a set of eggs of this bird containing one of the red-eyed cowbird, collected in Costa Rica.
9. *Agelaius phoeniceus richmondi* Nelson. Rio Grande Red-wing. Merely listed by me (Auk, 48, 1931, p. 65); the data are as follows: A set of 2 eggs of the red-wing and 1 of the red-eyed cowbird, Camargo, Mexico, June 29, 1890, collected by T. H. Jackson. Another set of 4 eggs of the host and 1 of the parasite, collected in Hidalgo County, Texas, May 18, 1889, by J. A. Single. Both sets are in the J. P. Norris collection.
10. *Icterus cucullatus nelsoni* Ridgway. Arizona Hooded Oriole. A second record of this oriole as a victim of the bronzed cowbird is as follows: a parasitized set from Tombstone, Arizona, collected by F. C. Willard, June 26, 1913, and now in the J. P. Norris collection. A third is a parasitized set found near Oracle, Arizona, June 1, 1932, by Clyde L. Field.
11. *Icterus spurius* (Linnaeus). Orchard Oriole. To the few known records (from Texas) may be added one from Camargo, Mexico, now in the J. P. Norris collection.
12. *Icterus pustulatus* (Wagler). Scarlet-headed Oriole. I merely listed this bird before (Auk, 48, 1931, p. 65). The data are as follows. Bailey (Auk, 23, 1906, p. 390) found a parasitized nest in the general region of San Blas, Mexico.
A second record for this oriole has come to my attention. In his price list of birds' eggs for 1899, W. Schlueter lists a set of two eggs of this bird and one of *Tangavius aeneus aeneus* from Mazatlan, Mexico. Mr. Griffing Bancroft writes me that at Guaymas, Sonora, Mexico, he found this bird to be victimized by *T. a. aeneus*.
13. *Piranga rubra cooperi* Ridgway. Cooper Tanager. One record: J. T. Wright informs me that on August 28, 1929, at Saric, Sonora, he saw a Cooper tanager feeding and solicitously attending a young bronzed cowbird.
14. *Richmondia cardinalis canicaudus* (Chapman). Gray-tailed Cardinal. To the few previously known records of the gray-tailed cardinal as a victim of the red-eyed cowbird may be added the following data. The U. S. National Museum has 2 single eggs of the red-eyed cowbird taken from nests of this cardinal at Brownsville, Texas.
15. *Passerina ciris pallidior* Mearns. Texas Painted Bunting. One record. In the collection of Mr. A. C. Bent is an egg of the red-eyed cowbird taken from a nest of a painted bunting by H. P. Attwater at San Antonio, Texas, in April, 1895.
16. *Pipilo rutilus* (Lichtenstein). Sclater Towhee. Previously known from one record: a set now in the J. P. Norris collection, two eggs of the towhee and 2 of the

red-eyed cowbird, collected at Etna, Oaxaca, Mexico, May 20, 1912. To this may be added two other parasitized sets, collected during May in Oaxaca, now in the Field Museum.

17. *Arremonops conirostris richmondi* Ridgway. Richmond Sparrow. Herr Schönwetter informs me that he has in his collection a set of 1 egg of this finch with 1 egg of the red-eyed cowbird, collected in Costa Rica, on July 1, 1912, by Grolepp. He also writes that there are two other similarly parasitized sets, also collected in Costa Rica by Grolepp, in the collection of Herr H. Domeier of Göttingen.

18. *Atlapetes gutturalis parvirostris* Dwight and Griscom. Yellow-throated Sparrow. Alfaro (Paginas Ilustradas, 1, no. 2, March 22, 1904, p. 180) writes that the cowbirds (*T. a. involucratus*) deposit their eggs in the nests of this bird in Costa Rica. In my book (pp. 328, 333) I erroneously referred records of this bird to *T. a. aeneus* instead of *T. a. involucratus*.

19. *Aimophila rufescens rufescens* Swainson. Rusty Sparrow. Not definitely recorded as a cowbird host, but Sumichrast (La Naturaleza, 1, 1870, p. 309) writes that this sparrow (there called *Haemophila rufescens*) is probably a common host of the red-eyed cowbird in Vera Cruz. Herrera (La Naturaleza, 3rd ser., 1, no. 2, 1911, p. 124) writes that it is a host of *T. aeneus* (*involucratus*) in high country, apparently on the basis of Sumichrast's statement.

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