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2003

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*Wilson Bull.*, 115(2), 2003, pp. 210–212

## Male Brown-headed Cowbird Attacks and Kills a Nestling

Lawrence D. Igl<sup>1</sup>

**ABSTRACT.**—I observed a male Brown-headed Cowbird (*Molothrus ater*) attack and kill a nestling of an unidentified passerine in a grassland field in Day County, South Dakota, in June 2000. The killing or removal of nestlings by female cowbirds has been reported by others, but this behavior has not been documented previously in male cowbirds. Received 8 October 2002, accepted 3 March 2003.

Female Brown-headed Cowbirds (*Molothrus ater*) often remove and sometimes eat host eggs (e.g., Scott et al. 1992). Female cowbirds have been observed attacking, removing, or killing nestlings (Du Bois 1956, Tate 1967, Beane and Alford 1990, Scott and McKinney 1994, Sheppard 1996), and recent technological advances in videography have provided evidence that this behavior may be more common than previously believed (Averill-Murray et al. 1999, Elliott 1999, Thompson et al. 1999, Pietz and Granfors 2000, Granfors et al. 2001, Stake and Cavanagh 2001). In some cases, female cowbirds have been observed destroying or removing entire host clutches or broods (e.g., Beane and Alford 1990, Scott and McKinney 1994, Elliott 1999, Granfors et al. 2001, Stake and Cavanagh 2001, pers. obs.).

Observations of male cowbirds exhibiting interest in nests or nest contents are uncommon (Sealy 1994), although males occasion-

ally are observed in the vicinity of nests with females (Du Bois 1956, Mengel and Jenkins 1970, Strausberger 1998). Friedmann (1963) described two male and three female cowbirds destroying a Chipping Sparrow (*Spizella passerina*) nest several days after two cowbird eggs had disappeared from the nest ("mafia effect"; Soler et al. 1995). Sealy (1994) reported one instance of a male cowbird removing an egg from an Eastern Kingbird (*Tyrannus tyrannus*) nest. E. Greene (pers. comm.) videotaped male cowbirds removing and consuming eggs from both artificial nests and Lazuli Bunting (*Passerina amoena*) nests in Montana. Despite these reports, male cowbirds have not previously been observed removing or killing nestlings. Here, I report my observations of a male cowbird attacking and killing a nestling in northeastern South Dakota.

On 16 June 2000 at 05:23 CST, while conducting a breeding bird survey in an idle Conservation Reserve Program grassland field (97° 45' N, 45° 19' W) in Day County, South Dakota, I observed a female and a male Brown-headed Cowbird flying about 0.5 m above the vegetation. The male cowbird was carrying a nestling of an unknown passerine species grasped by the neck in his bill. The nestling was flailing its legs, wings, and head, and opening its bill. A male Red-winged Blackbird (*Agelaius phoeniceus*) briefly pursued the cowbirds as they flew over the blackbird's song perch. The male cowbird alighted

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on a wooden fencepost at the edge of the field (about 25 m from my observation point) and dropped the still active nestling onto the fencepost; the female cowbird landed on a barbed wire strand near the male. While holding the nestling down with its right foot, the male cowbird repeatedly pecked the nestling's head until the nestling was motionless and bloody. The male cowbird then flew off with the limp nestling in its bill and dropped it in a nearby pasture, about 100 m from the fencepost. The female cowbird departed with the male cowbird. Although my presence may have influenced the cowbird's behavior, there was no indication that the male intended to consume the nestling. Upon searching the pasture, I was unable to locate the discarded nestling in the dense vegetation.

The species of nestling was not obvious, but it appeared to be that of a larger passerine (cowbird-sized or larger), based on its size and age (i.e., recently hatched, largely naked, sparse light gray down on head, eyes closed). Several passerine species were recorded during the breeding bird survey in the vicinity of the observation, including Red-winged Blackbird, Western Meadowlark (*Sturnella neglecta*), and Bobolink (*Dolichonyx oryzivorus*). About 33% of passerine nests ( $n = 143$ ) found incidentally during bird surveys in grassland fields in this county between 1990 and 2002 were parasitized by cowbirds (unpubl. data).

Although I did not observe the male cowbird at a nest, the fact that the nestling was very young and still alive at the beginning of my observation suggests that it was removed from a nest recently by the male cowbird or possibly by a female cowbird. There is increasing evidence that female cowbirds may destroy or remove the contents of nests that they do not intend to parasitize (Arcese et al. 1996, Granfors et al. 2001), but the motivation of such predatory behavior in cowbirds remains speculative. A number of researchers have suggested that consumption of nestlings is not the primary reason for cowbirds removing nestlings from a nest (Scott et al. 1992, Sealy 1994, Ortega 1998, Granfors et al. 2001). Arcese and coworkers (1992, 1996) speculated that cowbirds will destroy nest contents late in the nesting cycle to induce hosts to reneest, thus enabling the cowbird to synchronize their egg laying with that of the

reneesting host. Cowbirds also may disrupt nests in the vicinity of their hosts' nests to reduce competition for the cowbird nestling's food (Granfors et al. 2001) or to reduce competition among conspecifics (Laskey 1950).

Elliott (1999) suggested that infanticide rather than predation may be a more appropriate term to characterize the cowbird's behavior of removing nestlings from nests, because cowbirds do not eat the nestlings and because cowbird fecundity may be enhanced by increased breeding opportunities from the reneesting hosts. Regardless of the intent of this male's behavior or the terminology used to describe it, the killing or removal of nestlings appears to be rare among male cowbirds.

#### ACKNOWLEDGMENTS

I thank J. E. Austin, P. F. Elliott, D. H. Johnson, D. A. Granfors, P. J. Pietz, and F. R. Thompson for providing constructive comments on earlier drafts of this manuscript. I am grateful to E. Greene, Univ. of Montana, Missoula, for providing information on egg removal and consumption by male cowbirds at artificial and natural nests in Montana. A. Cox (deceased) provided access to her property between 1990 and 2000.

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*Wilson Bull.*, 115(2), 2003, pp. 212–213

## New Record of Shiny Cowbird (*Molothrus bonariensis*) Parasitism of Black-chinned Siskins (*Carduelis barbata*)

Andrea Alejandra Astié<sup>1</sup>

**ABSTRACT.**—I present the second record of Shiny Cowbird (*Molothrus bonariensis*) parasitism of the Black-chinned Siskin (*Carduelis barbata*). The last recorded observation was in 1929. This also represents the northernmost nesting record of the Black-chinned Siskin. Received 6 August 2002, accepted 23 February 2003.

Brood parasitism is a breeding strategy in which parasites lay eggs in the nests of other species (hosts) which incubate eggs and provide parental care to the offspring. The Shiny Cowbird (*Molothrus bonariensis*) is a generalist, obligate, brood parasite. The Black-chinned Siskin (*Carduelis barbata*) was reported to be a host of Shiny Cowbirds in the Cape San Antonio, Buenos Aires province, Argentina (Gibson in Friedmann 1929). This record has been cited in several works (Friedmann 1963, Friedmann and Kiff 1985, Ortega

1998) but no new records have been reported. Here I present new information related to Shiny Cowbirds parasitizing Black-chinned Siskins.

The Black-chinned Siskin occurs only in South America. The known distribution of this species includes Chile, except for the North Atacama Region, and Argentina, from the provinces of Neuquen and Rio Negro to Tierra del Fuego (Ridgely and Tudor 1989). Shiny Cowbirds historically were confined to grasslands and open woods of South America (Friedmann 1929) and, more recently, expanded their range into areas that have been transformed for agriculture or animal husbandry (Post et al. 1990). Presently, Shiny Cowbirds occur in the central and southern areas of South America, excluding the High Andes, south of Patagonia, and unexploited areas of Amazonia (Ridgely and Tudor 1989).

On 25 October 1999, I found a Black-chinned Siskin nest containing one host egg and one Shiny Cowbird egg in San Carlos, Mendoza province, Argentina (33° 44' S, 69°

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