

Host List, continued

out of 27 pre-1900; 15 of 41 post-1900 sets with cowbird eggs. REF: Friedmann and Kiff 1985; Goelitz 1915a; Nehrling 1880-85; Sanborn and Goelitz 1915. SETS: 12 (WFVZ, FMNH, ChAS).

• **Prothonotary Warbler, *Protonotaria citrea*** — Host. Common in swamps and bottomland forests. BBS: 0.1. Near Quincy, Poling (1890) found 11 of 70 nests parasitized. For a central Illinois sample of (mostly) pre-1900 nests, 24 of 154 were parasitized, but only 1 of 69 nests from northern Illinois (Graber et al. 1983). Barnes (1889) made no mention of cowbird parasitism in discussing examination of "hundreds" of Prothonotary Warbler nests, but he later (Barnes 1890, 1909) listed this warbler as a cowbird host. REF: Friedmann 1929, 1963; Loucks 1893a, 1894; Poling 1889. SETS: 26 (WFVZ, SBCM, FMNH, ISM, PSM).

• **Worm-eating Warbler, *Helmitheros vermivorus*** — Host. Uncommon in bottomland forests. BBS: +. Of 9 nests with contents described, 1 was parasitized (Graber et al. 1983). REF: Kleen and Bush 1972; Robinson and Wilcove 1994; Robinson et al 1995b; Trine et al., in press.

• **Ovenbird, *Seiurus aurocapillus*** — Host. Uncommon in woodlands. BBS: 0.1. Hess (1902) found a nest with 7 cowbird eggs. REF: Friedmann 1929, 1963; Robinson 1992; Robinson and Wilcove 1994; Robinson et al 1995b; Trine et al., in press; Wilson 1912. SETS: 3 (WFVZ, ChAS).

• **Louisiana Waterthrush, *Seiurus motacilla*** — Host. Common in woodlands. BBS: +. Literature mentions 5 instances of cowbird parasitism in Illinois (Graber et al. 1963, Allison 1947). REF: Keen 1992; Robinson 1992; Robinson and Wilcove 1994; Trine et al., in press.

• **Kentucky Warbler, *Oporornis formosus*** — Host. Fairly common in forests. BBS: 0.1. At least 7 of 18 nests parasitized (Poling 1890, Giddings 1897). Thom (1973) noted

Kentucky Warblers caring for 2 out of nest cowbird young. REF: Barnes 1890; Friedmann 1963; Robinson 1992; Robinson and Wilcove 1994; Robinson et al 1995b; Trine et al., in press. SETS: 2 in FMNH.

• **Mourning Warbler, *Oporornis philadelphia*** — Host. Occasional in thickets and woodland undergrowth. REF: Friedmann 1963; Pitelka 1939.

• **Common Yellowthroat, *Geothlypis trichas*** — Host. Common in marshy areas, thickets and forest edges. BBS: 9.9; G&G: about 400,000 in 1907 and 1957. Cowbird parasitism in Illinois is 5 of 30 nests in the north, 7 of 26 nests for the central region, and 3 of 11 in the south (Graber et al. 1983). At Morton Arboretum, 1 of 3 nests were parasitized (B. M. Strausberger, unpubl.). Report of female feeding 3 nearly full grown cowbirds (Graber et al. 1983). REF: Blocher 1924; Cory 1909; Du Bois 1922; Friedmann 1929, 1963, Friedmann and Kiff 1985; Nehrling 1880-85; Poling 1889; Sanborn and Goelitz 1915. SETS: 6 (FMNH, ChAS).

• **Hooded Warbler, *Wilsonia citrina*** — Host. Uncommon in forests. BBS: +. Graber et al. (1983) mention a single parasitized nest. REF: Friedmann 1963; Trine et al., in press.

• **Yellow-breasted Chat, *Icteria virens*** — Host. Common in thickets and forest edges. BBS: 1.9. Illinois records showed 12 of 50 nests contained 16 cowbird eggs (Graber et al. 1983). REF: Barnes 1890; Friedmann 1963; Poling 1889 [nearby Missouri record]; Smith 1920; Trine et al., in press. SETS: 19 (FMNH, DMNH, ChAS, ISM).

• **Summer Tanager, *Piranga rubra*** — Host. Common in upland woods. BBS: 0.2. REF: Cory 1909; Friedmann 1929; Nehrling 1880-85; 1963; Poling 1889; Robinson 1992; Robinson and Wilcove 1994; Trine et al., in press.

• **Scarlet Tanager, *Piranga olivacea*** — Host. Uncommon in forests. BBS: 0.2. REF: Cory 1909; Ford 1956; Friedmann 1929, 1963;

Poling 1889; Robinson 1992; Thompson and Robinson 1963; Trine et al., in press. SETS: 9 (FMNH, SBM).

• **Northern Cardinal, *Cardinalis cardinalis*** — Host. Common in woodland edges and residential areas. BBS: 19.3. G&G: 1,200,000. Of 19 nests, 16 contained cowbird eggs (Blocher 1936). At Morton Arboretum, 109 cowbird eggs were found in 66 of 95 nests found (B. M. Strausberger, unpubl.). REF: Du Bois 1918b; Friedmann 1929, 1963; Goelitz 1915a; Musselman 1918; Nice 1952; Peer and Bollinger 1997; Poling 1889; Robinson 1992; Robinson et al 1995b; Thompson 1960; Thompson and Robinson 1963; Trine et al., in press. SETS: 6 (WFVZ, ChAS).

• **Rose-breasted Grosbeak, *Phoebastria ludovicianus*** — Host. Common in woodlands. The 1 nest found by B. M. Strausberger (unpubl.) was parasitized. BBS: 1.2. REF: Friedmann 1929, 1963; Goelitz 1915a; McKinney 1967; Sanborn 1911; Sanborn and Goelitz 1915. SETS: 5 (WFVZ, FMNH, ChAS).

• **Indigo Bunting, *Passerina cyanea*** — Host. Abundant in open country. BBS: 24.4. G&G: 850,000 — 1,700,000. Of 41 nests in a Champaign Co. study, 16 contained 22 cowbird eggs which produced 15 young (Twomey 1945). A total of 106 cowbird eggs were found in 57 of 67 nests at Morton Arboretum (B. M. Strausberger, unpubl.). REF: Barnes 1890; Friedmann 1929, 1963; Goelitz 1915a; Kleen 1995, 1996; McKinney 1966, 1967; Paul 1969; Poling 1889; Robinson et al 1995b; Thompson and Robinson 1962, 1963, 1965; Trine et al., in press. SETS: 11 (WFVZ, FMNH, ChAS).

• **Dickcissel, *Spiza americana*** — Host. Common in open areas. BBS: 32.5. G&G: 1,700,000 — 3,400,000. Hess (1899) found no cowbird parasitism among 30+ nests. Extensive studies in Kansas find higher rates of parasitism: Zimmerman (1983) found 430 of 620 nests parasitized. This difference indicates either a regional