

Appendices

Appendix 4: Comparison of Population Size Estimates for Priority Species in Nevada.

Because we report only one population size estimate on the front pages of the species accounts, here we gather all sources of estimates for comparison. One methodological issue should be noted. BBS-based estimates (Rich et al. 2004, and unpublished Blancher spreadsheet; see *Appendix 1: Methods*) are adjusted by several “correction factors” based on bird detectability. The most important is that raw count numbers are automatically doubled, under the assumption that only males are being detected. NBC estimates, in contrast, do not use correction factors, based on our indications that most of the more visible or local landbirds are being detected within the defined sample area of each survey point (see *Appendix 1: Methods*). Refinement of correction factors and determining when their use is appropriate are priority considerations for improving the population estimation process (Thogmartin et al. 2006).

Table App-4-1: Population size estimates for Priority species. NBC = Nevada Bird Count; BBS = Breeding Bird Survey, with analysis by Blancher (i.e. “Blancher spreadsheet”). Numbers in **bold** are the ones reported in the species accounts. “Source for reported estimate” gives citations or other source information about the estimate shown in bold. WAP = Wildlife Action Plan.

SPECIES	NBC	BBS	Other	Source for reported estimate
Trumpeter Swan			≤ 30 breeding	Census
Tundra Swan			1–10,000 winter	Expert Opinion
Cinnamon Teal			> 10,000	Nevada WAP Team 2006
Northern Pintail			5,000 breeders	Nevada WAP Team 2006
Canvasback			4,600 breeders	Nevada WAP Team 2006
Redhead			4,500 breeders	Nevada WAP Team 2006
Lesser Scaup			~650 breeders	USFWS (2001)
Greater Sage-Grouse			68-88,000	Nevada WAP Team 2006
Blue Grouse		174	Unknown	
Sharp-tailed Grouse			226	NDOW reintroductions
Mountain Quail		840		Blancher spreadsheet
Gambel's Quail	260,000	14,000		Nevada Bird Count
Common Loon			500 migrants	Expert Opinion
Eared Grebe			400 breeders	Ivey and Herziger 2006
Western Grebe			250	Nevada WAP Team 2006
Clark's Grebe			300	Nevada WAP Team 2006
American White Pelican			8,600	Anaho Island NWR data
Least Bittern			Unknown	
Snowy Egret			600	Nevada WAP Team 2006
White-faced Ibis	16,000		5–6,000	Ivey and Herziger 2006
Bald Eagle			~ 10; >120	Buehler 2000; WAP 2006
Northern Goshawk	700	17	700	Herron 1999
Swainson's Hawk	21,000	7,700	300	Herron et al. 1985
Ferruginous Hawk	1,200	900		Nevada Bird Count
Golden Eagle	3,000	6,200	2,400	Nevada Bird Count

Appendices

SPECIES	NBC	BBS	Other	Source for reported estimate
Peregrine Falcon			140-180	Klinger,NDOW, <i>pers.comm.</i>
Prairie Falcon	11,500	8,600	2,500	Nevada Bird Count
Clapper Rail			20-40	Garnett et al. 2004
Sandhill Crane	3,300		650 – 1,000	Bradley 2005
Snowy Plover			350 – 1,000	GBBO unpublished data
Black-necked Stilt			3,000	Expert Opinion
American Avocet			18,000	Expert Opinion
Willet	6,800		2,100	Expert Opinion
Long-billed Curlew	15,000		1,150	Fellows and Jones 2009
Marbled Godwit			350	Expert Opinion
Western Sandpiper			12,000 migrants	IWJV (in prep.)
Least Sandpiper			2,200	IWJV (in prep.)
Long-billed Dowitcher	174		14–20,000	IWJV (in prep.);WAP 2006
Wilson's Phalarope			3,000 breeders 12,000 migrants	IWJV (in prep.) Expert Opinion
Red-necked Phalarope			3,000	IWJV (in prep.)
Franklin's Gull			350	Expert Opinion
Black Tern			700	Expert Opinion
Band-tailed Pigeon	615	7,500		Nevada Bird Count
Yellow-billed Cuckoo			10-20	NDOW 2009
Flammulated Owl			< 2,500	Expert Opinion
Burrowing Owl	3,000	22,000		Nevada Bird Count
Spotted Owl			<12	Nevada WAP Team 2006
Short-eared Owl		5,000		Blancher spreadsheet
Common Poorwill			Unknown	
White-throated Swift	14,000	4,300		Nevada Bird Count
Costa's Hummingbird	14,000			Nevada Bird Count
Calliope Hummingbird	9,500	60,000		Nevada Bird Count
Rufous Hummingbird	218		>1,000,000 migrants	Expert Opinion
Lewis's Woodpecker	13,000	10,000		Nevada Bird Count
Williamson's Sapsucker	1,500	480		Nevada Bird Count
White-headed Woodpecker	840	660		Nevada Bird Count
Gilded Flicker			<100	Floyd et al 2007
Olive-sided Flycatcher	5,600	1,000		Nevada Bird Count
Willow Flycatcher	7,300	1,500		Blancher spreadsheet
SW Willow Flycatcher			90	Swett 1999
Gray Flycatcher	650,000	601,000		Nevada Bird Count
Bell's Vireo	1,000			Nevada Bird Count
Gray Vireo	78,000	300		Nevada Bird Count
Pinyon Jay	428,000	1,353,000		Nevada Bird Count
Sage Thrasher	1,500,000	3,820,000		Nevada Bird Count

Appendices

SPECIES	NBC	BBS	Other	Source for reported estimate
Bendire's Thrasher	3,100	1,000	<50	Expert Opinion
Le Conte's Thrasher	20,000	9,700	<100	Expert Opinion
Virginia's Warbler	8,200	101,857		Nevada Bird Count
Lucy's Warbler	2,900	29,000		Nevada Bird Count
Hermit Warbler	140	7,300		Nevada Bird Count
Grace's Warbler	610	170		Nevada Bird Count
Green-tailed Towhee	885,000	686,000		Nevada Bird Count
Abert's Towhee	2,300			Nevada Bird Count
Brewer's Sparrow	7,400,000	7,000,000		Nevada Bird Count
Black-chinned Sparrow	8,400			Nevada Bird Count
Sage Sparrow	2,900,000	1,824,000		Nevada Bird Count
Tricolored Blackbird			<100	Ammon and Woods 2008
Black Rosy-finch			Unknown	