

## Brown Creeper (*occidentalis*)

Class: Aves  
Order: Passeriformes

*Certhia americana occidentalis*

Note: This assessment refers to this subspecies only. A species level report, which refers to all associated subspecies, is also available.

**Review Status:** Peer-reviewed

**Version Date:** 30 November 2018

### Conservation Status

NatureServe: Agency:

G Rank: ADF&G:

IUCN:

Audubon AK:

S Rank: USFWS:

BLM:

Final Rank		
Conservation category: <b>VI. Yellow</b>		
low status and high biological vulnerability and action need		
<u>Category</u>	<u>Range</u>	<u>Score</u>
Status	-20 to 20	-6
Biological	-50 to 50	-10
Action	-40 to 40	8
<b>Higher numerical scores denote greater concern</b>		

**Status** - variables measure the trend in a taxon's population status or distribution. Higher status scores denote taxa with known declining trends. Status scores range from -20 (increasing) to 20 (decreasing).

**Score**

*Population Trend in Alaska (-10 to 10)*

-6

Infrequently detected during surveys. Limited data suggest a stable long-term (1993-2015) trend in southeast and southcoastal Alaska (Handel and Sauer 2017).

*Distribution Trend in Alaska (-10 to 10)*

0

Unknown.

Status Total: -6

**Biological** - variables measure aspects of a taxon's distribution, abundance and life history. Higher biological scores suggest greater vulnerability to extirpation. Biological scores range from -50 (least vulnerable) to 50 (most vulnerable).

**Score**

*Population Size in Alaska (-10 to 10)*

0

Unknown.

*Range Size in Alaska (-10 to 10)*

-2

Found in southeast Alaska (Poulin et al. 2013; Gibson and Withrow 2015). Estimated range size is between 10,000 and 100,000 sq. km.

*Population Concentration in Alaska (-10 to 10)*

-10

Does not concentrate.

*Reproductive Potential in Alaska*Age of First Reproduction (-5 to 5)

-5

Unknown, but probably breeds in first year (Poulin et al. 2013).

Number of Young (-5 to 5)

1

Unknown for Alaska, but elsewhere in North America its annual clutch size averages 5-6 eggs (Poulin et al. 2013).

*Ecological Specialization in Alaska*Dietary (-5 to 5)

1

Consumes a variety of invertebrates including spiders, flies, beetles, insect larvae, ants, and lepidopterans (reviewed in Poulin et al. 2013). These prey items are principally obtained by gleaning invertebrates from rough tree bark (Poulin et al. 2013). Because this habit of feeding is specialized and restricts the type of prey available, we rank this question as B- Moderately adaptable.

Habitat (-5 to 5)

5

In Alaska, inhabits closed-canopy, old-growth coniferous and mixedwood forests (Isleib and Kessel 1973; Spindler and Kessel 1980; Dellasala et al. 1996; Andres et al. 2004; Van Hemert et al. 2006). Nests in natural crevices behind loose or peeling bark, usually in dead or dying trees (Andres et al. 2004; Poulin et al. 2013). The availability of suitable foraging and nesting habitat is thought to be a limiting factor for populations in Alaska (USFS 2008).

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Biological Total: -10

**Action** - variables measure current state of knowledge or extent of conservation efforts directed toward a given taxon. Higher action scores denote greater information needs due of lack of knowledge or conservation action. Action scores range from -40 (lower needs) to 40 (greater needs).

**Score***Management Plans and Regulations in Alaska (-10 to 10)*

2

Protected under the Migratory Bird Treaty Act (MBTA 1918).

*Knowledge of Distribution and Habitat in Alaska (-10 to 10)*

2

Habitat associations are well-known in southeast Alaska (Kessler and Kogut 1985; Dellasala et al. 1996; Smith et al. 2001; Andres et al. 2004). However, additional studies are needed to identify range limits and contact zones between *C. a. occidentalis* and *C. a. alascensis*.

*Knowledge of Population Trends in Alaska (-10 to 10)*

2

Monitored in southeast and southcoastal Alaska through the Breeding Bird Survey (Handel and Sauer 2017). However, detections are low and data are inadequate for estimating short-term trends.

*Knowledge of Factors Limiting Populations in Alaska (-10 to 10)*

2

The availability of suitable foraging and nesting habitat is thought to be a limiting factor for populations in Alaska (USFS 2008). Research in Alaska and elsewhere in its range suggests that this species is sensitive to habitat disturbance. Specifically, studies have found lower abundances (Nappi et al. 2010; Vanderwel et al. 2011; Thompson et al. 2013) and lower nest densities (Poulin et al. 2010; D'Astous and Villard 2012; Geleynse et al. 2016) in harvested or heavily burned forest stands. It is unclear whether these lower densities are the result of limited food (Poulin et al. 2010; D'Astous and Villard 2012) or limited nest sites (Geleynse et al. 2016). In addition, lower reproductive success has been documented for nests near forest edges and for nests in small forest patches, perhaps because of increased predation (Poulin and Villard 2011). Additional research is needed on the ecology and demographic rates of populations in Alaska, for which few data are available.

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**Supplemental Information** - variables do not receive numerical scores. Instead, they are used to sort taxa to answer specific biological or management questions.

<b>Harvest:</b>	None or Prohibited
<b>Seasonal Occurrence:</b>	Year-round
<b>Taxonomic Significance:</b>	Subspecies
<b>% Global Range in Alaska:</b>	<10%
<b>% Global Population in Alaska:</b>	<25%
<b>Peripheral:</b>	No

## References

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