

List of Sonoma County bird species projected to become endangered and/or threatened by climate change by 2050-2080 (National Audubon Society)

See the notes section on pages 3-4 for explanation of terms used. Birds are listed in order of highest to lowest risk, out of 314 species found at risk in all of North America.

Species	Audubon Climate Status	BBS Sensitivity	CBC Sensitivity	Season(s) Present
American Avocet	ENDANGERED_2	ENDANGERED	ENDANGERED	CBC
California Gull	ENDANGERED_2	ENDANGERED	ENDANGERED	CBC
Dunlin	ENDANGERED_2	ENDANGERED	ENDANGERED	CBC
Merlin	ENDANGERED_2	ENDANGERED	ENDANGERED	CBC
Red Crossbill	ENDANGERED_2	ENDANGERED	ENDANGERED	CBC
Willet	ENDANGERED_2	ENDANGERED	ENDANGERED	CBC
Yellow-billed Magpie	ENDANGERED_2	ENDANGERED	ENDANGERED	Both
Allen's Hummingbird	ENDANGERED_1	ENDANGERED	THREATENED	BBS
American Wigeon	ENDANGERED_1	ENDANGERED	STABLE	CBC+
Bell's Sparrow / Sage Sparrow	ENDANGERED_1	ENDANGERED	STABLE	CBC+
Black Oystercatcher	ENDANGERED_1	ENDANGERED	THREATENED	CBC
Black-crowned Night-Heron	ENDANGERED_1	ENDANGERED	STABLE	CBC+
Brown Creeper	ENDANGERED_1	ENDANGERED	STABLE	Both+
Brown Pelican	ENDANGERED_1	THREATENED	ENDANGERED	CBC
Bufflehead	ENDANGERED_1	ENDANGERED	STABLE	CBC+
Burrowing Owl	ENDANGERED_1	ENDANGERED	THREATENED	CBC
Cinnamon Teal	ENDANGERED_1	ENDANGERED	STABLE	CBC+
Clark's Grebe	ENDANGERED_1	ENDANGERED	THREATENED	CBC
Common Loon	ENDANGERED_1	STABLE	ENDANGERED	CBC
Common Poorwill	ENDANGERED_1	ENDANGERED	THREATENED	CBC
Eared Grebe	ENDANGERED_1	ENDANGERED	STABLE	CBC+
Ferruginous Hawk	ENDANGERED_1	ENDANGERED	STABLE	CBC+
Gadwall	ENDANGERED_1	ENDANGERED	STABLE	CBC+
Golden Eagle	ENDANGERED_1	ENDANGERED	STABLE	CBC+
Greater Scaup	ENDANGERED_1	STABLE	ENDANGERED	CBC
Hermit Warbler	ENDANGERED_1	THREATENED	ENDANGERED	BBS
Herring Gull	ENDANGERED_1	STABLE	ENDANGERED	CBC
Hooded Merganser	ENDANGERED_1	THREATENED	ENDANGERED	CBC
Horned Grebe	ENDANGERED_1	ENDANGERED	STABLE	CBC+
Hutton's Vireo	ENDANGERED_1	ENDANGERED	STABLE	Both+
Long-billed Curlew	ENDANGERED_1	ENDANGERED	THREATENED	CBC
Mallard	ENDANGERED_1	ENDANGERED	STABLE	Both+
Northern Harrier	ENDANGERED_1	ENDANGERED	STABLE	CBC+
Northern Pygmy-Owl	ENDANGERED_1	ENDANGERED	THREATENED	Both
Northern Saw-whet Owl	ENDANGERED_1	STABLE	ENDANGERED	CBC

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Northern Shoveler	ENDANGERED_1	ENDANGERED	STABLE	CBC+
Osprey	ENDANGERED_1	ENDANGERED	STABLE	BBS
Prairie Falcon	ENDANGERED_1	ENDANGERED	STABLE	CBC+
Pygmy Nuthatch	ENDANGERED_1	THREATENED	ENDANGERED	Both
Red-breasted Merganser	ENDANGERED_1	THREATENED	ENDANGERED	CBC
Ring-billed Gull	ENDANGERED_1	ENDANGERED	STABLE	CBC+
Ring-necked Duck	ENDANGERED_1	ENDANGERED	STABLE	CBC+
Ruddy Turnstone	ENDANGERED_1	Not modeled	ENDANGERED	CBC
Surfbird	ENDANGERED_1	Not modeled	ENDANGERED	CBC
Tundra Swan	ENDANGERED_1	STABLE	ENDANGERED	CBC
Varied Thrush	ENDANGERED_1	ENDANGERED	STABLE	CBC+
Vaux's Swift	ENDANGERED_1	ENDANGERED	Not modeled	BBS
Western Grebe	ENDANGERED_1	ENDANGERED	STABLE	CBC+
Western Gull	ENDANGERED_1	STABLE	ENDANGERED	CBC
Western Wood-Pewee	ENDANGERED_1	ENDANGERED	Not modeled	BBS
White-headed Woodpecker	ENDANGERED_1	ENDANGERED	THREATENED	CBC
Band-tailed Pigeon	THREATENED_2	THREATENED	THREATENED	Both
Hooded Oriole	THREATENED_2	THREATENED	THREATENED	BBS
Lewis's Woodpecker	THREATENED_2	THREATENED	THREATENED	CBC
Mountain Chickadee	THREATENED_2	THREATENED	THREATENED	Both
Rufous-crowned Sparrow	THREATENED_2	THREATENED	THREATENED	CBC
Tree Swallow	THREATENED_2	THREATENED	THREATENED	CBC
Western Screech-Owl	THREATENED_2	THREATENED	THREATENED	Both
Wilson's Warbler	THREATENED_2	THREATENED	THREATENED	BBS
American Dipper	THREATENED_1	THREATENED	STABLE	CBC+
American Kestrel	THREATENED_1	THREATENED	STABLE	Both+
American Pipit	THREATENED_1	THREATENED	STABLE	CBC+
Ancient Murrelet	THREATENED_1	Not modeled	THREATENED	CBC
Barn Owl	THREATENED_1	Not modeled	THREATENED	CBC
Black-bellied Plover	THREATENED_1	Not modeled	THREATENED	CBC
Black-headed Grosbeak	THREATENED_1	STABLE	THREATENED	BBS*
Black-throated Gray Warbler	THREATENED_1	THREATENED	STABLE	BBS
Brant	THREATENED_1	Not modeled	THREATENED	CBC
Brewer's Blackbird	THREATENED_1	THREATENED	STABLE	Both+
Bullock's Oriole	THREATENED_1	STABLE	THREATENED	BBS*
Common Goldeneye	THREATENED_1	THREATENED	STABLE	CBC+
Common Merganser	THREATENED_1	THREATENED	STABLE	Both+
Common Raven	THREATENED_1	THREATENED	STABLE	Both+
Double-crested Cormorant	THREATENED_1	THREATENED	STABLE	Both+

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Glaucous-winged Gull	THREATENED_1	THREATENED	STABLE	CBC+
Golden-crowned Kinglet	THREATENED_1	THREATENED	STABLE	Both+
Greater Yellowlegs	THREATENED_1	THREATENED	STABLE	CBC+
Hairy Woodpecker	THREATENED_1	THREATENED	STABLE	Both+
Hermit Thrush	THREATENED_1	THREATENED	STABLE	Both+
House Finch	THREATENED_1	THREATENED	STABLE	Both+
Lawrence's Goldfinch	THREATENED_1	STABLE	THREATENED	Both*
Lesser Scaup	THREATENED_1	THREATENED	STABLE	CBC+
Marsh Wren	THREATENED_1	THREATENED	STABLE	CBC+
Mountain Quail	THREATENED_1	THREATENED	STABLE	Both+
Nashville Warbler	THREATENED_1	THREATENED	STABLE	BBS
Northern Fulmar	THREATENED_1	Not modeled	THREATENED	CBC
Pacific Wren / Winter Wren	THREATENED_1	THREATENED	STABLE	Both+
Pacific-slope Flycatcher	THREATENED_1	STABLE	THREATENED	BBS*
Peregrine Falcon	THREATENED_1	Not modeled	THREATENED	CBC
Pine Siskin	THREATENED_1	THREATENED	STABLE	Both+
Purple Finch	THREATENED_1	THREATENED	STABLE	Both+
Red-breasted Nuthatch	THREATENED_1	THREATENED	STABLE	BBS
Red-breasted Sapsucker	THREATENED_1	THREATENED	STABLE	CBC+
Red-throated Loon	THREATENED_1	THREATENED	STABLE	CBC+
Rhinoceros Auklet	THREATENED_1	Not modeled	THREATENED	CBC
Snowy Plover	THREATENED_1	Not modeled	THREATENED	CBC
Spotted Sandpiper	THREATENED_1	THREATENED	STABLE	CBC+
Townsend's Warbler	THREATENED_1	THREATENED	STABLE	CBC+
Tricolored Blackbird	THREATENED_1	THREATENED	STABLE	CBC+
Violet-green Swallow	THREATENED_1	THREATENED	STABLE	Both+
Western Bluebird	THREATENED_1	THREATENED	STABLE	Both+
Western Tanager	THREATENED_1	THREATENED	STABLE	BBS
Whimbrel	THREATENED_1	Not modeled	THREATENED	CBC
White-breasted Nuthatch	THREATENED_1	THREATENED	STABLE	Both+
White-tailed Kite	THREATENED_1	THREATENED	STABLE	Both+
White-throated Swift	THREATENED_1	THREATENED	STABLE	CBC+
Wood Duck	THREATENED_1	THREATENED	STABLE	CBC+

Column 1: Species

Climate threatened and endangered species whose current climate range falls within your chapter's territory.

Column 2: Audubon Climate Status

There are four possible classifications for each species. Below they are described and ranked from highest to lowest threat:

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- **ENDANGERED_2:** *This species has been modeled both during the CBC and BBS, and it's considered climate endangered during both seasons*
- **ENDANGERED_1:** *This species is considered climate endangered during one season (CBC or BBS)*
- **THREATENED_2:** *This species has been modeled both during the CBC and BBS, and it's considered climate threatened during both seasons*
- **THREATENED_1:** *This species is considered climate threatened during one season (CBC or BBS)*

Where:

- **Climate endangered** means the species could lose at least half of its current climate range by the year 2050, with no chance to make it up elsewhere
- **Climate threatened** means the species could lose at least half of its current climate range by the year 2080, with the chance to make up that loss in expanded climatic range

Column 3: BBS Sensitivity

Climate sensitivity during the breeding season (BBS). See above for definitions of climate endangered and climate threatened.

Column 4: CBC Sensitivity

Climate sensitivity during the winter (CBC). See above for definitions of climate endangered and climate threatened.

Column 5: Season(s) Present

Displays the season(s) that the species' core climate range falls within your chapter's territory, where BBS = breeding season and CBC = winter.

An asterisk (*) is used to indicate that the species is climate stable during the breeding season (BBS), and a plus sign (+) is used to indicate that the species is climate stable during the winter (CBC).