

Survival by Degrees: 389 Species on the Brink

Background

Birds form part of healthy ecosystems, bring joy to people, and benefit local economies throughout the United States. In 2011, birdwatching-related industries drove \$41 billion in expenditures and \$107 billion in total industry output nationally. There are more than 2,238,000 total birders in Texas alone [1]. Additionally, birds play critical roles in pollination, insect control, forest generation, seed dispersal, carrion scavenging, and many other ecosystem services we rely on.

However, the future of birds is at risk with alarming losses of biodiversity occurring worldwide. Global extinction rates are now 100 times higher than background rates [2]. Climate change exacerbates the global biodiversity crisis, with an anticipated rate of change 20 times faster in the next century than during the past two million years.

Audubon leads the way in conducting science to understand the vulnerability and threats to birds from climate change. Our science shows that stabilizing warming at a global average of 1.5°C (2.7°F), as recommended by the IPCC (Intergovernmental Panel on Climate Change) to reduce the global risk of climate change, would also reduce vulnerability and threats for many species of birds. To save birds we must address the underlying causes of climate change (*climate change mitigation*), and protect places that birds need now and will need in the future (*climate change adaptation*). Climate change mitigation means reducing or preventing the causes of climate change, such as greenhouse gas emissions. Climate change adaptation includes efforts to alter and adapt both our natural surroundings as well as our infrastructure to better withstand the threats of climate change.

Audubon's 2019 Report, *Survival by Degrees: 389 Bird Species on the Brink* [3], is a powerful look at how vulnerable birds are to climate change across North America based on a new, updated scientific analysis that leverages big data and incorporates the unique biology of each bird to determine its vulnerability. In this research, we related bird observations for 604 species with climate and habitat conditions at these locations and used modeling algorithms to capture the unique composition of each species's suitable range. We then mapped and compared the projected current and future ranges to estimate the projected range loss and gain under multiple future climate change scenarios. These projections were then used to assess how vulnerable each species was to climate change [4,5].



Figure 1. Golden-cheeked Warbler. Photo: Jason Crotty/Flickr (CC BY 2.0)

Future Climate and Habitat in Texas

Across the state of Texas, without substantial climate change mitigation (i.e., a 3°C/5.4°F global warming scenario), average temperatures during the warmest month are expected to increase approximately 5.1°C (9.1°F), and average temperatures during the coldest month are expected to increase approximately 3.3°C (5.9°F) from 2010 to the end of the century. Average annual precipitation is expected to decrease by approximately 47 mm (1.9 in), ranging from a decrease of 214 mm (8.5 in) in the southeast to an increase of 44 mm (1.7 in) in the southwest of the state. In addition, evapotranspiration is expected to increase, resulting in an overall decrease of available moisture of 32% across the state [6].

The distribution of vegetation biomes, critical for plants and animals, are also projected to change under climate change scenarios [7]. By the end of the century under a 3°C (5.4°F) global warming scenario, approximately 44% of the state of Texas will transition to a different biome. At present, the largest biome in the state is Grassland, covering 45% of the state. By the end of the century, the largest biome in the state will be Thorn Scrub, which will cover approximately 37% of the state.

All of these changes in climate and vegetation will alter plant and insect communities; influence availability of food, water, and shelter for birds; and will likely cause ecological disruption as species assemblages reshuffle. Over time, a complex suite of changes in climate and vegetation will inevitably affect Texas's bird communities.

Climate Change Vulnerability

Climate change will negatively affect many birds in the state. Here, we assess vulnerability based on the amount of a species's range that may be gained or lost with climate change. We designate species that may lose much more range across North America than they have the potential to gain as *climate vulnerable*. In Texas, 76 out of 272 species are climate vulnerable in summer under the 3°C scenario, meaning they stand to lose more of their North American summer range than they would gain under a warming climate. Reducing emissions to 1.5°C reduces the number of vulnerable species to 42. Impacts are somewhat lessened in winter, with 51 out of 333 species vulnerable under 3°C of

warming and 26 species vulnerable if we reduce warming to 1.5°C.

Each bird was grouped by its primary habitat (see Table 2 for groupings), and these groups are not equally affected. In Texas, the habitat groups with the most species vulnerable to the impacts of ongoing and future climate change are eastern forest (16 species) and western forest (16 species) in summer (Figure 2). In winter, western forest (12 species) and subtropical forest (9 species) groups have the most vulnerable species.

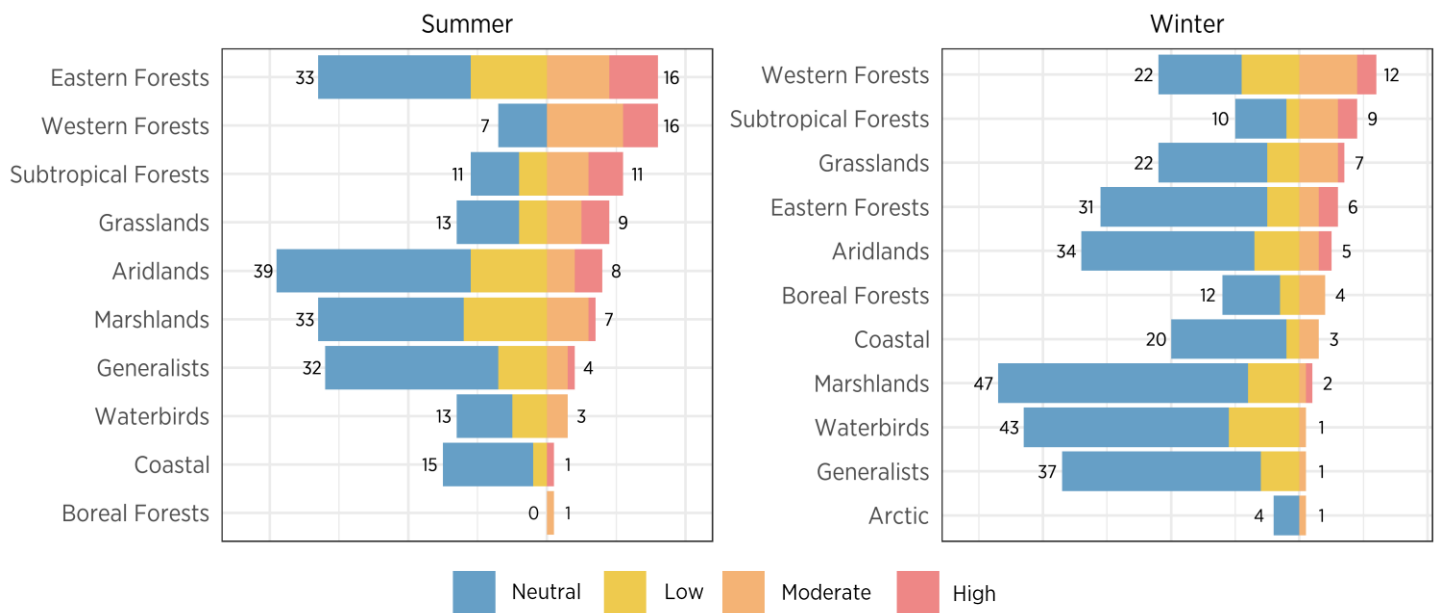


Figure 2. Number of species by their vulnerability to climate change in each habitat group under a global 3°C warming scenario. The species in each group are ones that currently live in the state, though vulnerability is assessed across the species's full North American range to better account for range-wide changes. Red and orange indicate number of vulnerable (high and moderate) species, and yellow and blue indicate non-vulnerable (low and neutral) species.

Climate-Related Threats

In addition to changes in climate across North America, we assessed the potential impacts of other forecasted threats related to climate change, including sea level rise, land use change, and extreme weather events, such as extreme spring heat, spring drought, fire weather, heavy rain, and false springs within the lower 48 states [8]. These threats are relevant to both birds and the places they need, but were only available for the lower 48 states, and were analyzed separately from vulnerability. This analysis provides information on how each location and the birds that occur there may be exposed to these specific, climate-related threats (Figure 3) beyond their range-wide vulnerability described above.

Here we summarize threats occurring within the state. Six climate-related threats will affect portions of Texas (Table 1). The threat affecting both the greatest area and number of species in the state is extreme spring heat.

In Texas, species that are most threatened by a combination of climate change and additional climate-related threats under 3°C of warming include Aplomado Falcon, Montezuma Quail, Black-capped Vireo, Rufous-crowned Sparrow, Golden-cheeked Warbler, Yellow-throated Warbler, and Painted Redstart. Eastern Towhee faces multiple climate-related threats and may be extirpated from part of Texas in winter, despite having low range shift-based vulnerability. For information on threats for individual species in Texas, see Table 2.

Climate-Related Threats (Cont.)

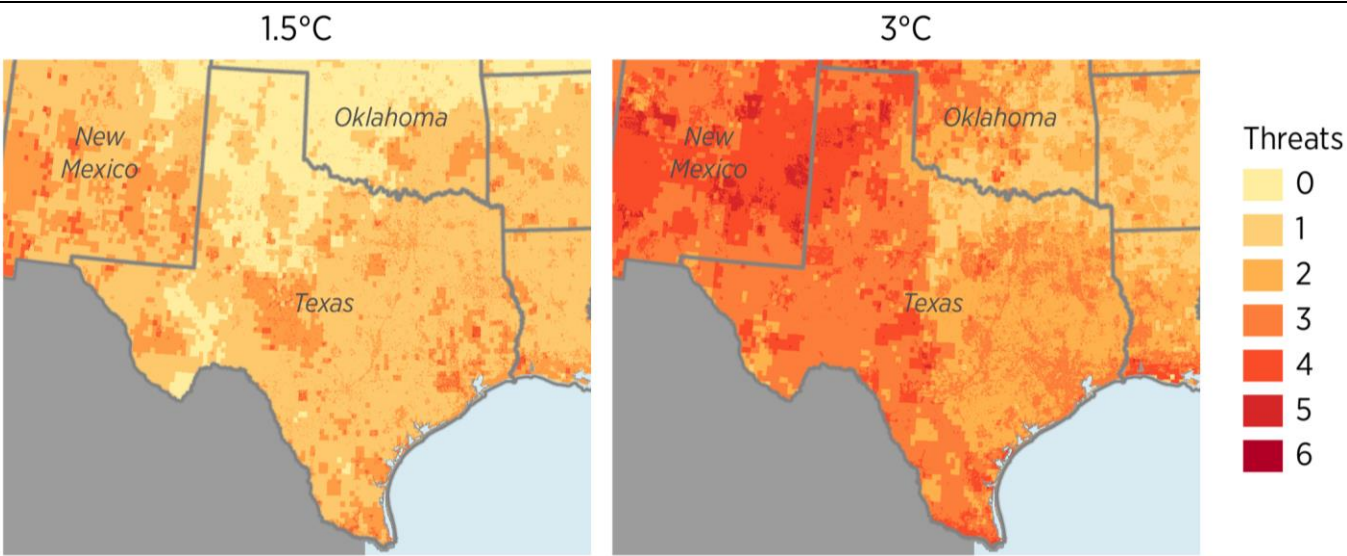








Figure 3. The number and distribution of overlapping climate-related threats under future global change scenarios of 1.5°C and 3°C. For detailed information on threats for each location in the state, refer to our online interactive tool at climate.audubon.org.
Table 1. Climate-related threats that Texas is expected to experience under the warming scenarios 1.5°C (2.7°F) and 3°C (5.4°F), and the projected area and number of species affected. We report the projected amount(s) of global sea level rise associated with each scenario [8]. Threats and scenarios were omitted if no species were affected in that scenario.

Threat	Scenario	Area Affected (acres)	Summer (Vulnerable) Species Affected	Winter (Vulnerable) Species Affected
 Sea Level Rise	1.5°C (0.5 m/1.6 ft)	1,143,296	15 (1)	24 (4)
	3°C (1 m/3.3 ft)	1,515,337	17 (2)	26 (7)
	3°C (2 m/6.6 ft)	2,199,716	20 (3)	35 (9)
 Urbanization	1.5°C	6,721,246	5 (3)	2 (0)
	3°C	20,969,016	154 (21)	251 (20)
 Extreme Spring Heat	1.5°C	129,777,322	245 (35)	307 (23)
	3°C	171,450,592	253 (57)	340 (48)
 Fire Weather	3°C	90,498,994	152 (38)	177 (31)
 Spring Droughts	1.5°C	13,276,705		4 (1)
	3°C	147,931,385	240 (47)	334 (46)
 False Springs	1.5°C	23,123,345	11 (7)	2 (2)
	3°C	24,661,326	19 (16)	21 (13)

We also mapped risk, areas of high conservation value for birds that are exposed to climate change-related threats. For any one location, risk is the product of the number of overlapping climate change-related threats, the total number of bird species that occur under future climate, and

the number of species with range-wide vulnerability under future climate. Risk is greater across Texas in summer relative to winter, and mitigating warming from 3°C to 1.5°C would more than halve the average risk of climate change-related threats to birds across the state.

Conclusions and Caveats

Birds are early responders to climate change and can be important indicators of large-scale ongoing and future ecological change. We found that 28% of Texas's 391 bird species are vulnerable to climate change across seasons. A rapidly changing climate could lead to population declines and local extinctions if species are not able to adapt. In addition, the reshuffling of bird communities at a continental scale will bring together species that previously lived in isolation, leading to novel, unpredictable interactions. Disruptions in food and nesting resources further compound vulnerabilities to climate change.

Although we project range gains offsetting loss for some species, especially in winter, it is unknown whether birds will establish populations in these new locations because of other factors not assessed here. On top of this, the added stressors of extreme weather events and other climate change-related threats will make establishment and persistence of populations difficult in the coming decades.

Call to Action

We know what to do.

The scientific consensus is clear. We must reduce greenhouse gas emissions at an urgent speed and on a wide scale from every sector of the economy to achieve a more favorable future for birds and people. There is no single perfect solution, but we can make a series of changes that lead to large-scale, systemic adjustments to achieve the required reductions.

Addressing the underlying causes of climate change.

Audubon is pursuing policies that together can drive down emissions at the scale and speed we need. For instance, we can invest in 100% clean energy, energy efficiency, and clean transportation policies that will dramatically reduce carbon emissions from the U.S. and world economies. We can adapt, improve, and innovate. We can power our cars, homes, cities, factories, farms, communities, and economy with clean energy—without contributing to climate change. We are working to implement policies and conservation practices that offset what we cannot eliminate, such as planting forests and testing new technologies to capture (i.e., sequester) carbon through industrial processes and permanently store it underground. We can do all of this in ways that spur innovation, create good jobs, promote homegrown industries, and build our economy for a smarter future.

Protecting the places birds need.

We can also pursue policies and conservation practices that help us avoid some of the worst effects of climate change

While these studies did not assess the effects of climate change on people, we know that the fate of humans and birds are deeply connected. Climate change is currently and will continue to cause harm to people too, who face threats like extreme weather, loss of coastal areas and changing economic patterns, to name a few. Climate change will cause disproportionate harm to vulnerable communities, including children, the elderly, the sick, and the poor, who may have fewer resources available to move or otherwise protect themselves from these threats. If we drastically reduce carbon emissions, we help people and birds alike.

This is the most comprehensive assessment of climate change vulnerability of birds in North America to date, but even this assessment may reasonably be considered conservative because the pace of change is exceeding the scenarios considered in this study. Our work concludes that climate change will have multiple, compounding effects on birds and will likely amplify biodiversity loss, unless actions are taken to lessen its effects.

by building more resilient infrastructure—meaning our cities, roads, and other structures—or even ranches, parks, floodplains, forests, and wetlands that can serve as good wildlife habitat and simultaneously protect our communities from extreme weather.

Audubon has identified the best opportunities to increase the resilience of coastal wetlands in key places that can serve as the first line of defense against the threat of sea level rise. We work to ensure key landscapes that are critical for birds have clean and reliable sources of water, now and in the future, and we advocate for conservation-minded management of working and urban landscapes that can help birds adapt to the changing climate.

We still have time.

We can avert and limit dangerous warming and its worst effects if we act quickly. Science tells us that in order to limit warming to a rise of 1.5°C (2.7°F), we must reduce greenhouse gas emissions 45% below 2010 levels by 2030 and reach net-zero carbon emissions by 2050.

We must act now.

We are on a dangerous path, but we have the power to chart a better one. Still, change will come only if we demand action from the public officials who represent us and the businesses we support.

We ask you to join us.

Be part of the solution. We can do this, together.

How You Can Help in Texas

Texas must lead this century by being the catalyst for the nation in promoting clean power and supply chains, and by supporting policies that will speed rapid worldwide uptake of clean technologies. As one of the world’s largest economies, an energy powerhouse, and a leader in the mobilization of clean power technologies, Texas has a unique and exciting role to play.

What role can you play? Talk to your local city council members and county commissioners; your elected members of Congress, and your representatives in the statehouse about your desire to see Texas lead the world into the 21st century through policies that will slow and arrest our carbon footprint. Let’s keep the planet hospitable for birds and people.

More Information

This project was conducted by the National Audubon Society. For more information, including details on the methods, please see the project website (climate.audubon.org) and the scientific publications [5,8].

References

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Contact

Brooke Bateman, PhD
Senior Climate Scientist, National Audubon Society
climatescience@audubon.org

Species Projections

Table 2. Climate suitability projections in summer and winter under the 3°C warming scenario for birds in Texas. Each bird is associated with the *Habitat Group* representing its primary habitat (see classification key below). *Range-wide Vulnerability* is the vulnerability of each species, across its full North American range under 3°C of global warming, based on long-term climate and vegetation change. High and moderately vulnerable species are considered vulnerable to climate change, whereas low and neutral species are considered not vulnerable. In *State Trends*, we show the top two trends in climate and habitat suitability for select birds in Texas, with colors reflecting the trend according to the legend below and percentages reflecting the percent of the state’s area in which each trend will occur. The total percentage reflects the area of the state that the species currently occupies and is projected to occupy in the future. Potential colonization indicates that climate and habitat are projected to become suitable for the species, whereas potential extirpation indicates that climate and habitat are suitable today but projected to become unsuitable. *State Threats* shows the additional climate-related threats each species might face, indicated by icons as in Table 1. Threats shown here were assessed within each state for species under either 1.5°C or 3°C warming (i.e., species that will be completely extirpated from the state do not have threats shown). Omitted species are either not present in the state during that season or not modeled due to data deficiency. These lists may have been further reduced by local experts. For a full list of species modeled in Texas, see the project website (climate.audubon.org).

Habitat classifications:

F-B = Boreal Forests

F-E = Eastern Forests

F-W = Western Forests

F-S = Subtropical Forests

A = Arctic

D = Aridlands

G = Grasslands

M = Marshlands

C = Coastal

W = Waterbirds


Gen = Generalists

























Trend classifications:
 Potential
extirpation






















































































 Worsening


























































































 Stable































































































 Improving








 Potential
colonization



































































































Species	Habitat Group	Season	Range-wide Vulnerability	State Trends	State Threats
Black-bellied Whistling-Duck	M	Summer	Neutral	<div><div>17%</div><div>45%</div></div>	  
	M	Winter	Neutral	<div><div>18%</div><div>53%</div></div>	  
Fulvous Whistling-Duck	M	Summer	Neutral	<div><div>16%</div><div>25%</div></div>	  
	M	Winter	Neutral	<div><div>3%</div><div>8%</div></div>	  
Snow Goose	W	Winter	Low	<div><div>3%</div><div>57%</div></div>	   
Ross's Goose	W	Winter	Low	<div><div>10%</div><div>55%</div></div>	   
Greater White-fronted Goose	W	Winter	Low	<div><div>39%</div><div>34%</div></div>	   
Cackling Goose	M	Winter	Moderate	<div><div>16%</div></div>	 
Canada Goose	W	Summer	Moderate	<div><div>15%</div><div>4%</div></div>	  
	W	Winter	Neutral	<div><div>47%</div><div>34%</div></div>	  
Wood Duck	W	Summer	Low	<div><div>26%</div><div>33%</div></div>	  
	W	Winter	Neutral	<div><div>14%</div><div>71%</div></div>	   
Blue-winged Teal	M	Summer	Low	<div><div>11%</div><div>7%</div></div>	  
	M	Winter	Neutral	<div><div>35%</div><div>42%</div></div>	  
Cinnamon Teal	M	Summer	Moderate	<div><div>3%</div><div>7%</div></div>	  
	M	Winter	Neutral	<div><div>48%</div><div>21%</div></div>	   
Northern Shoveler	M	Summer	Low	<div><div>2%</div><div>1%</div></div>	  
	M	Winter	Neutral	<div><div>80%</div><div>5%</div></div>	   
































































































Species	Habitat Group	Season	Range-wide Vulnerability	State Trends		State Threats			
Gadwall	M	Summer	Moderate	4% 2%					
	M	Winter	Neutral	62% 24%					
American Wigeon	M	Summer	Moderate	<1%					
	M	Winter	Neutral	60% 18%					
Mallard	W	Summer	Low	50% 25%					
	W	Winter	Neutral	42% 52%					
Mottled Duck	M	Summer	Low	4% 9%					
	M	Winter	Low	9% 21%					
Northern Pintail	M	Summer	Moderate	2% <1%					
	M	Winter	Neutral	58% 9%					
Green-winged Teal	M	Summer	Moderate	<1% <1%					
	M	Winter	Neutral	65% 10%					
Canvasback	M	Winter	Neutral	63% 8%					
Redhead	M	Summer	Neutral	11% 7%					
	M	Winter	Low	9% 11%					
Ring-necked Duck	W	Winter	Neutral	52% 42%					
Greater Scaup	W	Winter	Neutral	6% 7%					
Lesser Scaup	W	Winter	Neutral	76% 21%					
Surf Scoter	C	Winter	Neutral	1% <1%					
Black Scoter	C	Winter	Neutral	<1% <1%					
Bufflehead	W	Winter	Low	1% 39%					
Common Goldeneye	W	Winter	Neutral	7% 11%					
Hooded Merganser	W	Winter	Neutral	7% 30%					
Common Merganser	W	Winter	Low	4% 6%					
Red-breasted Merganser	W	Winter	Low	1% 2%					
Ruddy Duck	M	Summer	Low	21% 14%					
	M	Winter	Neutral	33% 22%					
Plain Chachalaca	F-S	Summer	Moderate	2% 8%					





























































Species	Habitat Group	Season	Range-wide Vulnerability	State Trends	State Threats			
Northern Bobwhite	F-S	Winter	Neutral	<div><div>4%</div><div>13%</div></div>				
	G	Summer	Neutral	<div><div>6%</div><div>82%</div></div>				
	G	Winter	Neutral	<div><div>9%</div><div>75%</div></div>				
Scaled Quail	D	Summer	Moderate	<div><div>5%</div><div>35%</div></div>				
	D	Winter	Moderate	<div><div>26%</div><div>8%</div></div>				
Montezuma Quail	F-S	Summer	High	<div><div>1%</div></div>				
	F-S	Winter	High	<div><div>6%</div><div>3%</div></div>				
Greater Prairie-Chicken	G	Summer	Neutral	<div><div>14%</div><div>2%</div></div>				
	G	Winter	Neutral	<div><div>3%</div><div>5%</div></div>				
Lesser Prairie-Chicken	G	Summer	Moderate	<div><div>12%</div><div>1%</div></div>				
	G	Winter	Moderate	<div><div>7%</div><div>1%</div></div>				
Wild Turkey	Gen	Summer	Neutral	<div><div>16%</div><div>49%</div></div>				
	Gen	Winter	Neutral	<div><div>29%</div><div>28%</div></div>				
Least Grebe	M	Summer	Neutral	<div><div>9%</div><div>20%</div></div>				
	M	Winter	Neutral	<div><div>8%</div><div>24%</div></div>				
Pied-billed Grebe	M	Summer	Neutral	<div><div>11%</div><div>11%</div></div>				
	M	Winter	Neutral	<div><div>57%</div><div>20%</div></div>				
Horned Grebe	M	Winter	Neutral	<div><div>2%</div><div>3%</div></div>				
Eared Grebe	M	Summer	High	<div><div>2%</div><div><1%</div></div>				
	M	Winter	Neutral	<div><div>25%</div><div>25%</div></div>				
Western Grebe	M	Summer	Low	<div><div>2%</div><div>3%</div></div>				
	M	Winter	Low	<div><div>5%</div><div>1%</div></div>				
Clark's Grebe	M	Summer	Low	<div><div>2%</div><div>2%</div></div>				
	M	Winter	High	<div><div>6%</div><div>2%</div></div>				
Band-tailed Pigeon	F-W	Summer	Moderate	<div><div><1%</div><div><1%</div></div>				
Inca Dove	D	Summer	Neutral	<div><div>25%</div><div>53%</div></div>				
	D	Winter	Neutral	<div><div>34%</div><div>34%</div></div>				
Common Ground-Dove	D	Summer	Neutral	<div><div>32%</div><div>50%</div></div>				




























































































Species	Habitat Group	Season	Range-wide Vulnerability	State Trends		State Threats			
White-tipped Dove	D	Winter	Neutral	<div><div></div></div> 28%	<div><div></div></div> 43%				
	F-S	Summer	Neutral	<div><div></div></div> 7%	<div><div></div></div> 16%				
	F-S	Winter	Neutral	<div><div></div></div> 6%	<div><div></div></div> 16%				
White-winged Dove	D	Summer	Neutral	<div><div></div></div> 32%	<div><div></div></div> 35%				
	D	Winter	Neutral	<div><div></div></div> 24%	<div><div></div></div> 39%				
Mourning Dove	Gen	Summer	Neutral	<div><div></div></div> 2%	<div><div></div></div> 98%				
	Gen	Winter	Neutral	<div><div></div></div> 33%	<div><div></div></div> 41%				
Groove-billed Ani	F-S	Summer	Neutral	<div><div></div></div> 5%	<div><div></div></div> 7%				
	F-S	Winter	Neutral	<div><div></div></div> <1%	<div><div></div></div> 3%				
Greater Roadrunner	D	Summer	Neutral	<div><div></div></div> 80%	<div><div></div></div> 9%				
	D	Winter	Neutral	<div><div></div></div> 64%	<div><div></div></div> 15%				
Yellow-billed Cuckoo	F-E	Summer	Neutral	<div><div></div></div> 49%	<div><div></div></div> 47%				
Mangrove Cuckoo	C	Summer	Neutral	<div><div></div></div> 3%					
	C	Winter	Neutral	<div><div></div></div> 4%					
Lesser Nighthawk	D	Summer	Neutral	<div><div></div></div> 32%	<div><div></div></div> 31%				
Common Nighthawk	Gen	Summer	Neutral	<div><div></div></div> 70%	<div><div></div></div> 15%				
Common Pauraque	F-S	Summer	Neutral	<div><div></div></div> 5%	<div><div></div></div> 18%				
	F-S	Winter	Neutral	<div><div></div></div> 5%	<div><div></div></div> 18%				
Common Poorwill	D	Summer	Neutral	<div><div></div></div> 33%	<div><div></div></div> 24%				
	D	Winter	Moderate	<div><div></div></div> 7%					
Chuck-will's-widow	F-E	Summer	Neutral	<div><div></div></div> 15%	<div><div></div></div> 20%				
Eastern Whip-poor-will	F-E	Winter	Low	<div><div></div></div> 14%					
Chimney Swift	F-E	Summer	Neutral	<div><div></div></div> 60%	<div><div></div></div> 8%				
White-throated Swift	D	Summer	Low	<div><div></div></div> 2%					
	D	Winter	Moderate	<div><div></div></div> 6%	<div><div></div></div> 6%				
Ruby-throated Hummingbird	F-E	Summer	Neutral	<div><div></div></div> 20%	<div><div></div></div> 10%				
	F-E	Winter	Low	<div><div></div></div> 7%					
	D	Summer	Neutral	<div><div></div></div> 29%	<div><div></div></div> 24%				





























































































Species	Habitat Group	Season	Range-wide Vulnerability	State Trends	State Threats
Black-chinned Hummingbird	D	Winter	Low	<div><div>2%</div><div>2%</div></div>	  
Broad-tailed Hummingbird	F-W	Summer	High	<div><div>1%</div></div>	  
Rufous Hummingbird	F-W	Winter	Moderate	<div><div>4%</div><div>4%</div></div>	   
Broad-billed Hummingbird	F-S	Summer	Neutral	<div><div>5%</div></div>	  
Buff-bellied Hummingbird	F-S	Summer	Moderate	<div><div>2%</div><div>14%</div></div>	  
	F-S	Winter	Neutral	<div><div>6%</div><div>16%</div></div>	  
King Rail	M	Summer	Low	<div><div>1%</div><div>2%</div></div>	   
	M	Winter	Neutral	<div><div>3%</div><div>5%</div></div>	   
Clapper Rail	C	Summer	Low	<div><div>1%</div><div>2%</div></div>	   
	C	Winter	Low	<div><div>2%</div><div>2%</div></div>	   
Virginia Rail	M	Winter	Low	<div><div>10%</div><div>7%</div></div>	  
Sora	M	Winter	Neutral	<div><div>30%</div><div>34%</div></div>	   
Common Gallinule	M	Summer	Neutral	<div><div>29%</div><div>37%</div></div>	   
	M	Winter	Neutral	<div><div>11%</div><div>48%</div></div>	  
American Coot	M	Summer	Neutral	<div><div>24%</div><div>22%</div></div>	   
	M	Winter	Neutral	<div><div>85%</div><div>10%</div></div>	   
Black Rail	M	Summer	Moderate	<div><div>1%</div><div>8%</div></div>	   
Limpkin	M	Winter	Neutral	<div><div>4%</div></div>	   
Sandhill Crane	M	Winter	Low	<div><div>29%</div><div>43%</div></div>	   
Whooping Crane	W	Winter	Low	<div><div>8%</div><div>14%</div></div>	  
Black-necked Stilt	M	Summer	Neutral	<div><div>35%</div><div>22%</div></div>	   
	M	Winter	Neutral	<div><div>10%</div><div>46%</div></div>	   
American Avocet	M	Summer	Neutral	<div><div>7%</div><div>9%</div></div>	  
	M	Winter	Neutral	<div><div>22%</div><div>27%</div></div>	  
American Oystercatcher	C	Summer	Neutral	<div><div>1%</div></div>	   
	C	Winter	Neutral	<div><div>2%</div><div>2%</div></div>	   
Black-bellied Plover	W	Winter	Neutral	<div><div>9%</div><div>13%</div></div>	  























































































Species	Habitat Group	Season	Range-wide Vulnerability	State Trends		State Threats			
Snowy Plover	C	Summer	Neutral	<div><div></div><div>18%</div><div>21%</div></div>					
	C	Winter	Neutral	<div><div><1%</div><div>1%</div></div>					
Wilson's Plover	C	Summer	Neutral	<div><div></div><div>4%</div><div>3%</div></div>					
	C	Winter	Neutral	<div><div>1%</div><div>8%</div></div>					
Semipalmated Plover	C	Winter	Neutral	<div><div><1%</div><div>5%</div></div>					
Piping Plover	C	Winter	Moderate	<div><div>4%</div><div>7%</div></div>					
Killdeer	W	Summer	Neutral	<div><div>6%</div><div>84%</div></div>					
	W	Winter	Neutral	<div><div>35%</div><div>30%</div></div>					
Mountain Plover	G	Winter	Low	<div><div></div><div>14%</div><div>11%</div></div>					
Upland Sandpiper	G	Summer	Neutral	<div><div>2%</div><div>18%</div></div>					
Whimbrel	W	Winter	Neutral	<div><div>2%</div><div>7%</div></div>					
Long-billed Curlew	G	Summer	High	<div><div>7%</div></div>					
	G	Winter	Neutral	<div><div>33%</div><div>37%</div></div>					
Marbled Godwit	M	Winter	Neutral	<div><div></div><div>3%</div></div>					
Ruddy Turnstone	W	Winter	Neutral	<div><div>3%</div><div>18%</div></div>					
Red Knot	W	Winter	Low	<div><div>1%</div><div>1%</div></div>					
Stilt Sandpiper	W	Winter	Neutral	<div><div>9%</div><div>52%</div></div>					
Sanderling	W	Winter	Neutral	<div><div>4%</div><div>6%</div></div>					
Dunlin	W	Winter	Low	<div><div>10%</div><div>4%</div></div>					
Least Sandpiper	W	Winter	Neutral	<div><div>38%</div><div>36%</div></div>					
Western Sandpiper	W	Winter	Neutral	<div><div>6%</div><div>8%</div></div>					
Short-billed Dowitcher	W	Winter	Neutral	<div><div>10%</div><div>3%</div></div>					
Long-billed Dowitcher	W	Winter	Neutral	<div><div>33%</div><div>31%</div></div>					
American Woodcock	F-E	Winter	Neutral	<div><div>10%</div><div>14%</div></div>					
Wilson's Snipe	M	Winter	Neutral	<div><div></div><div>98%</div><div>1%</div></div>					
Spotted Sandpiper	W	Summer	Moderate	<div><div><1%</div><div><1%</div></div>					
	W	Winter	Neutral	<div><div>20%</div><div>71%</div></div>					
Solitary Sandpiper	W	Winter	Moderate	<div><div>7%</div><div>61%</div></div>					
































Species	Habitat Group	Season	Range-wide Vulnerability	State Trends	State Threats
Greater Yellowlegs	W	Winter	Neutral	<div><div>34%</div><div>42%</div></div>	   
Willet	W	Summer	Neutral	<div><div>3%</div><div>3%</div></div>	  
	C	Winter	Neutral	<div><div>7%</div><div>1%</div></div>	   
Lesser Yellowlegs	W	Winter	Neutral	<div><div>20%</div><div>27%</div></div>	  
Bonaparte's Gull	W	Winter	Neutral	<div><div>56%</div><div>3%</div></div>	  
Laughing Gull	C	Summer	Neutral	<div><div>2%</div><div>48%</div></div>	  
	C	Winter	Neutral	<div><div>22%</div><div>8%</div></div>	  
Ring-billed Gull	W	Summer	Low	<div><div><1%</div><div>4%</div></div>	  
	W	Winter	Neutral	<div><div>18%</div><div>47%</div></div>	  
California Gull	W	Winter	Low	<div><div><1%</div><div><1%</div></div>	 
Herring Gull	W	Winter	Neutral	<div><div>10%</div><div>44%</div></div>	  
Lesser Black-backed Gull	C	Winter	Low	<div><div>1%</div><div>2%</div></div>	   
Least Tern	W	Summer	Low	<div><div>19%</div><div>8%</div></div>	  
Gull-billed Tern	C	Summer	Neutral	<div><div>14%</div><div>17%</div></div>	  
	C	Winter	Neutral	<div><div>6%</div><div>17%</div></div>	  
Caspian Tern	W	Summer	Low	<div><div>2%</div><div>6%</div></div>	  
	W	Winter	Neutral	<div><div>9%</div><div>13%</div></div>	  
Forster's Tern	M	Summer	Neutral	<div><div>6%</div><div>2%</div></div>	    
	M	Winter	Neutral	<div><div>5%</div><div>17%</div></div>	  
Royal Tern	C	Summer	Neutral	<div><div>1%</div></div>	   
	C	Winter	Neutral	<div><div>3%</div><div>1%</div></div>	   
Sandwich Tern	C	Summer	Low	<div><div>2%</div></div>	   
	C	Winter	Neutral	<div><div>1%</div><div>1%</div></div>	   
Black Skimmer	C	Summer	Neutral	<div><div>4%</div></div>	   
	C	Winter	Neutral	<div><div>2%</div><div>1%</div></div>	   
Common Loon	W	Winter	Low	<div><div>2%</div><div>1%</div></div>	   
Wood Stork	M	Summer	Neutral	<div><div><1%</div><div>2%</div></div>	  
	M	Winter	Neutral	<div><div><1%</div><div>8%</div></div>	  




















































































Species	Habitat Group	Season	Range-wide Vulnerability	State Trends	State Threats
Magnificent Frigatebird	C	Summer	Neutral	<div><div>1%</div><div>2%</div></div>	   
	C	Winter	Neutral	<div><div><1%</div><div>1%</div></div>	    
Northern Gannet	C	Winter	Neutral	<div><div><1%</div><div>1%</div></div>	  
Anhinga	M	Summer	Neutral	<div><div>6%</div><div>15%</div></div>	  
	M	Winter	Neutral	<div><div>9%</div><div>18%</div></div>	  
Neotropic Cormorant	C	Summer	Neutral	<div><div>31%</div><div>47%</div></div>	   
	C	Winter	Neutral	<div><div>12%</div><div>26%</div></div>	   
Double-crested Cormorant	W	Summer	Neutral	<div><div>2%</div><div>41%</div></div>	  
	W	Winter	Neutral	<div><div>41%</div><div>20%</div></div>	  
American White Pelican	M	Summer	Low	<div><div>3%</div></div>	  
	M	Winter	Neutral	<div><div>22%</div><div>20%</div></div>	  
Brown Pelican	C	Summer	Neutral	<div><div>1%</div><div>18%</div></div>	   
	C	Winter	Neutral	<div><div>3%</div><div>2%</div></div>	   
American Bittern	M	Winter	Neutral	<div><div>14%</div><div>12%</div></div>	  
Least Bittern	M	Summer	Neutral	<div><div>11%</div><div>32%</div></div>	  
	M	Winter	Neutral	<div><div>8%</div><div>25%</div></div>	  
Great Blue Heron	W	Summer	Neutral	<div><div>94%</div><div>6%</div></div>	   
	W	Winter	Neutral	<div><div>37%</div><div>30%</div></div>	  
Great Egret	W	Summer	Neutral	<div><div>44%</div><div>20%</div></div>	  
	W	Winter	Neutral	<div><div>51%</div><div>32%</div></div>	   
Snowy Egret	M	Summer	Neutral	<div><div>22%</div><div>36%</div></div>	  
	M	Winter	Neutral	<div><div>23%</div><div>43%</div></div>	  
Little Blue Heron	M	Summer	Neutral	<div><div>47%</div><div>12%</div></div>	  
	M	Winter	Neutral	<div><div>13%</div><div>19%</div></div>	  
Tricolored Heron	M	Summer	Neutral	<div><div>15%</div><div>21%</div></div>	  
	M	Winter	Neutral	<div><div>5%</div><div>8%</div></div>	  
Reddish Egret	C	Summer	Neutral	<div><div>1%</div><div>1%</div></div>	   
	C	Winter	Neutral	<div><div>3%</div><div>1%</div></div>	   























































































Species	Habitat Group	Season	Range-wide Vulnerability	State Trends		State Threats			
Cattle Egret	W	Summer	Neutral	<div><div></div><div>61%</div><div></div><div>36%</div></div>					
	W	Winter	Neutral	<div><div></div><div>20%</div><div></div><div>42%</div></div>					
Green Heron	M	Summer	Neutral	<div><div></div><div>32%</div><div></div><div>33%</div></div>					
	M	Winter	Neutral	<div><div></div><div>18%</div><div></div><div>59%</div></div>					
Black-crowned Night-Heron	M	Summer	Neutral	<div><div></div><div>36%</div><div></div><div>28%</div></div>					
	M	Winter	Neutral	<div><div></div><div>20%</div><div></div><div>40%</div></div>					
Yellow-crowned Night-Heron	M	Summer	Neutral	<div><div></div><div>54%</div><div></div><div>16%</div></div>					
	M	Winter	Neutral	<div><div></div><div>9%</div><div></div><div>26%</div></div>					
White Ibis	M	Summer	Neutral	<div><div></div><div>39%</div><div></div><div>9%</div></div>					
	M	Winter	Neutral	<div><div></div><div>8%</div><div></div><div>5%</div></div>					
Glossy Ibis	M	Summer	Neutral	<div><div></div><div>1%</div><div></div><div>2%</div></div>					
	M	Winter	Low	<div><div></div><div>2%</div><div></div><div>2%</div></div>					
White-faced Ibis	M	Summer	Low	<div><div></div><div>21%</div><div></div><div>28%</div></div>					
	M	Winter	Neutral	<div><div></div><div>13%</div><div></div><div>17%</div></div>					
Roseate Spoonbill	C	Summer	Neutral	<div><div></div><div>7%</div><div></div><div>9%</div></div>					
	C	Winter	Neutral	<div><div></div><div>7%</div><div></div><div>5%</div></div>					
Black Vulture	Gen	Summer	Neutral	<div><div></div><div>25%</div><div></div><div>36%</div></div>					
	Gen	Winter	Neutral	<div><div></div><div>38%</div><div></div><div>24%</div></div>					
Turkey Vulture	Gen	Summer	Neutral	<div><div></div><div>87%</div><div></div><div>13%</div></div>					
	Gen	Winter	Neutral	<div><div></div><div>52%</div><div></div><div>24%</div></div>					
Osprey	W	Summer	Neutral	<div><div></div><div>6%</div><div></div><div>26%</div></div>					
	W	Winter	Neutral	<div><div></div><div>18%</div><div></div><div>45%</div></div>					
White-tailed Kite	D	Summer	Moderate	<div><div></div><div>9%</div><div></div><div>10%</div></div>					
	D	Winter	Neutral	<div><div></div><div>16%</div><div></div><div>37%</div></div>					
Hook-billed Kite	F-S	Summer	High	<div><div></div><div><1%</div><div></div></div>					
Swallow-tailed Kite	F-S	Summer	Low	<div><div></div><div>6%</div><div></div><div>1%</div></div>					
Golden Eagle	Gen	Summer	Moderate	<div><div></div><div>9%</div><div></div><div>6%</div></div>					
	Gen	Winter	Moderate	<div><div></div><div>31%</div><div></div><div>10%</div></div>					






Species	Habitat Group	Season	Range-wide Vulnerability	State Trends		State Threats			
Mississippi Kite	F-E	Summer	Neutral	<div><div></div><div></div></div> 27%	<div><div></div><div></div></div> 35%				
Northern Harrier	M	Summer	Low	<div><div></div><div></div></div> 2%					
	M	Winter	Neutral	<div><div></div><div></div></div> 90%	<div><div></div><div></div></div> 2%				
Sharp-shinned Hawk	F-W	Summer	Moderate	<div><div></div><div></div></div> 2%					
	F-W	Winter	Neutral	<div><div></div><div></div></div> 19%	<div><div></div><div></div></div> 61%				
Cooper's Hawk	Gen	Summer	Neutral	<div><div></div><div></div></div> 59%	<div><div></div><div></div></div> 31%				
	Gen	Winter	Low	<div><div></div><div></div></div> 57%	<div><div></div><div></div></div> 21%				
Bald Eagle	Gen	Summer	Low	<div><div></div><div></div></div> 17%	<div><div></div><div></div></div> 21%				
	Gen	Winter	Neutral	<div><div></div><div></div></div> 35%	<div><div></div><div></div></div> 29%				
Harris's Hawk	D	Summer	Low	<div><div></div><div></div></div> 20%	<div><div></div><div></div></div> 24%				
	D	Winter	Neutral	<div><div></div><div></div></div> 20%	<div><div></div><div></div></div> 42%				
White-tailed Hawk	G	Summer	Moderate	<div><div></div><div></div></div> 14%					
	G	Winter	Low	<div><div></div><div></div></div> 15%	<div><div></div><div></div></div> 15%				
Gray Hawk	F-W	Summer	Neutral	<div><div></div><div></div></div> 4%	<div><div></div><div></div></div> 19%				
	F-W	Winter	Moderate	<div><div></div><div></div></div> <1%	<div><div></div><div></div></div> 10%				
Red-shouldered Hawk	F-E	Summer	Neutral	<div><div></div><div></div></div> 28%	<div><div></div><div></div></div> 26%				
	F-E	Winter	Neutral	<div><div></div><div></div></div> 30%	<div><div></div><div></div></div> 12%				
Broad-winged Hawk	F-E	Summer	Low	<div><div></div><div></div></div> 6%	<div><div></div><div></div></div> 3%				
	F-E	Winter	Low	<div><div></div><div></div></div> 1%	<div><div></div><div></div></div> 16%				
Short-tailed Hawk	F-S	Summer	Low	<div><div></div><div></div></div> 1%					
	F-S	Winter	Neutral	<div><div></div><div></div></div> 7%					
Swainson's Hawk	G	Summer	Neutral	<div><div></div><div></div></div> 13%	<div><div></div><div></div></div> 35%				
Zone-tailed Hawk	F-W	Summer	Neutral	<div><div></div><div></div></div> 5%	<div><div></div><div></div></div> 2%				
	F-W	Winter	Neutral	<div><div></div><div></div></div> 1%	<div><div></div><div></div></div> 10%				
Red-tailed Hawk	Gen	Summer	Neutral	<div><div></div><div></div></div> 99%	<div><div></div><div></div></div> 1%				
	Gen	Winter	Neutral	<div><div></div><div></div></div> 3%	<div><div></div><div></div></div> 96%				
Rough-legged Hawk	A	Winter	Moderate	<div><div></div><div></div></div> 5%	<div><div></div><div></div></div> <1%				
Ferruginous Hawk	G	Summer	Moderate	<div><div></div><div></div></div> 1%					

































Species	Habitat Group	Season	Range-wide Vulnerability	State Trends		State Threats			
Barn Owl	G	Winter	Moderate	15%	37%				
	Gen	Summer	Neutral	61%	39%				
	Gen	Winter	Neutral	86%	14%				
Western Screech-Owl	F-W	Summer	Neutral	24%	6%				
	F-W	Winter	Neutral	8%	14%				
Eastern Screech-Owl	F-E	Summer	Neutral	26%	53%				
	F-E	Winter	Neutral	34%	21%				
Great Horned Owl	Gen	Summer	Neutral	99%	1%				
	Gen	Winter	Neutral	9%	83%				
Ferruginous Pygmy-Owl	D	Summer	Low	1%					
	D	Winter	Neutral	4%					
Burrowing Owl	G	Summer	Neutral	37%	6%				
	G	Winter	Neutral	32%	30%				
Barred Owl	F-E	Summer	Neutral	11%	28%				
	F-E	Winter	Neutral	6%	36%				
Long-eared Owl	F-W	Winter	Low	24%	11%				
Short-eared Owl	G	Winter	Neutral	16%	12%				
Ringed Kingfisher	W	Summer	Moderate	10%	17%				
	W	Winter	Neutral	3%	13%				
Belted Kingfisher	Gen	Summer	Neutral	4%					
	Gen	Winter	Neutral	100%					
Green Kingfisher	W	Summer	Neutral	8%	41%				
	W	Winter	Neutral	10%	71%				
Yellow-bellied Sapsucker	F-E	Winter	Neutral	45%	15%				
Red-naped Sapsucker	F-W	Winter	Neutral	18%	16%				
Lewis's Woodpecker	F-W	Winter	Low	2%	5%				
Red-headed Woodpecker	F-E	Summer	High	26%					
	F-E	Winter	Neutral	15%					























































































Species	Habitat Group	Season	Range-wide Vulnerability	State Trends	State Threats
Acorn Woodpecker	F-W	Summer	High	<div><div></div><div>6%</div><div><1%</div></div>	  
	F-W	Winter	Moderate	<div><div></div><div>2%</div><div><1%</div></div>	   
Golden-fronted Woodpecker	F-S	Summer	High	<div><div></div><div>46%</div><div>5%</div></div>	  
	F-S	Winter	Neutral	<div><div>27%</div><div>41%</div></div>	   
Red-bellied Woodpecker	F-E	Summer	Neutral	<div><div>16%</div><div>11%</div></div>	  
	F-E	Winter	Neutral	<div><div>16%</div><div>15%</div></div>	  
Downy Woodpecker	Gen	Summer	Neutral	<div><div>35%</div><div>21%</div></div>	  
	Gen	Winter	Neutral	<div><div>48%</div><div>16%</div></div>	  
Ladder-backed Woodpecker	D	Summer	Neutral	<div><div>46%</div><div>26%</div></div>	   
	D	Winter	Neutral	<div><div>60%</div><div>17%</div></div>	   
Red-cockaded Woodpecker	F-E	Summer	Low	<div><div>8%</div><div><1%</div></div>	
	F-E	Winter	Neutral	<div><div>6%</div><div>4%</div></div>	  
Hairy Woodpecker	Gen	Summer	Low	<div><div><1%</div><div><1%</div></div>	   
	Gen	Winter	Low	<div><div><1%</div></div>	
Pileated Woodpecker	F-E	Summer	Neutral	<div><div>7%</div><div>10%</div></div>	  
	F-E	Winter	Neutral	<div><div>7%</div><div>14%</div></div>	  
Northern Flicker	Gen	Summer	Moderate	<div><div>39%</div></div>	  
	Gen	Winter	Neutral	<div><div>26%</div><div>50%</div></div>	   
Crested Caracara	D	Summer	Neutral	<div><div>22%</div><div>27%</div></div>	  
	D	Winter	Neutral	<div><div>19%</div><div>59%</div></div>	  
American Kestrel	Gen	Summer	Neutral	<div><div>16%</div><div>40%</div></div>	  
	Gen	Winter	Neutral	<div><div>93%</div><div>7%</div></div>	   
Merlin	F-E	Winter	Neutral	<div><div>1%</div><div>99%</div></div>	   
Aplomado Falcon	G	Summer	High	<div><div>11%</div><div>3%</div></div>	    
	G	Winter	Moderate	<div><div>11%</div><div>16%</div></div>	   
Peregrine Falcon	Gen	Summer	Neutral	<div><div>32%</div><div>19%</div></div>	  
	Gen	Winter	Neutral	<div><div>26%</div><div>65%</div></div>	   
Prairie Falcon	D	Summer	Low	<div><div>9%</div><div>4%</div></div>	  






















































































Species	Habitat Group	Season	Range-wide Vulnerability	State Trends	State Threats
Red-crowned Parrot	D	Winter	Low	<div><div>19%</div><div>46%</div></div>	  
	F-S	Summer	Moderate	<div><div>2%</div><div>5%</div></div>	   
	F-S	Winter	Moderate	<div><div>1%</div><div>13%</div></div>	   
Northern Beardless-Tyrannulet	D	Summer	Low	<div><div>6%</div><div>16%</div></div>	  
	D	Winter	Neutral	<div><div>6%</div><div>17%</div></div>	  
Western Wood-Pewee	F-W	Summer	High	<div><div>4%</div></div>	   
Eastern Wood-Pewee	F-E	Summer	Low	<div><div>24%</div></div>	
Acadian Flycatcher	F-E	Summer	Moderate	<div><div>28%</div><div>3%</div></div>	 
Least Flycatcher	F-B	Winter	Neutral	<div><div>5%</div><div>19%</div></div>	  
Hammond's Flycatcher	F-W	Winter	Moderate	<div><div>2%</div></div>	  
Gray Flycatcher	D	Summer	High	<div><div><1%</div></div>	
	D	Winter	Neutral	<div><div>6%</div><div>19%</div></div>	  
Dusky Flycatcher	F-W	Winter	Neutral	<div><div>1%</div></div>	  
Cordilleran Flycatcher	F-W	Summer	High	<div><div><1%</div></div>	
Black Phoebe	Gen	Summer	Neutral	<div><div>19%</div><div>7%</div></div>	  
	Gen	Winter	Neutral	<div><div>10%</div><div>7%</div></div>	  
Eastern Phoebe	F-E	Summer	Low	<div><div>19%</div></div>	   
	F-E	Winter	Neutral	<div><div>53%</div><div>13%</div></div>	  
Say's Phoebe	Gen	Summer	Low	<div><div>5%</div><div>35%</div></div>	  
	Gen	Winter	Low	<div><div>19%</div><div>16%</div></div>	  
Vermilion Flycatcher	D	Summer	Neutral	<div><div>43%</div><div>23%</div></div>	   
	D	Winter	Neutral	<div><div>24%</div><div>31%</div></div>	  
Ash-throated Flycatcher	D	Summer	Neutral	<div><div>53%</div><div>23%</div></div>	   
	D	Winter	Neutral	<div><div>4%</div><div>17%</div></div>	   
Great Crested Flycatcher	F-E	Summer	Moderate	<div><div>18%</div><div>3%</div></div>	 
	F-E	Winter	Neutral	<div><div>20%</div></div>	  
Brown-crested Flycatcher	D	Summer	Neutral	<div><div>12%</div><div>38%</div></div>	   
Great Kiskadee	F-S	Summer	Neutral	<div><div>6%</div><div>8%</div></div>	   


















































































Species	Habitat Group	Season	Range-wide Vulnerability	State Trends	State Threats
Tropical Kingbird	F-S	Winter	Neutral	<div><div>4%</div><div>8%</div></div>	   
	D	Summer	Neutral	<div><div>4%</div><div>15%</div></div>	   
	D	Winter	Neutral	<div><div>1%</div><div>10%</div></div>	   
Couch's Kingbird	F-S	Summer	Moderate	<div><div>8%</div><div>18%</div></div>	  
	F-S	Winter	Moderate	<div><div>9%</div><div>32%</div></div>	  
Cassin's Kingbird	D	Summer	High	<div><div>6%</div><div><1%</div></div>	  
	D	Winter	Neutral	<div><div>3%</div></div>	   
Thick-billed Kingbird	F-S	Summer	Neutral	<div><div>4%</div></div>	  
Western Kingbird	G	Summer	Neutral	<div><div>78%</div><div>5%</div></div>	   
	G	Winter	Neutral	<div><div>4%</div></div>	  
Eastern Kingbird	G	Summer	Moderate	<div><div>10%</div></div>	
Scissor-tailed Flycatcher	G	Summer	Neutral	<div><div>53%</div><div>31%</div></div>	   
	G	Winter	Neutral	<div><div>17%</div><div>39%</div></div>	  
Loggerhead Shrike	G	Summer	Neutral	<div><div>92%</div><div>5%</div></div>	   
	G	Winter	Neutral	<div><div>71%</div><div>15%</div></div>	   
Northern Shrike	F-B	Winter	Moderate	<div><div><1%</div></div>	
Black-capped Vireo	D	Summer	High	<div><div>10%</div><div>4%</div></div>	  
White-eyed Vireo	F-E	Summer	Neutral	<div><div>59%</div><div>12%</div></div>	  
	F-E	Winter	Low	<div><div>14%</div><div>36%</div></div>	  
Bell's Vireo	D	Summer	Low	<div><div>16%</div><div>52%</div></div>	  
	D	Winter	Low	<div><div>3%</div></div>	   
Gray Vireo	D	Summer	Moderate	<div><div><1%</div></div>	
Hutton's Vireo	F-W	Summer	Moderate	<div><div>2%</div><div><1%</div></div>	  
	F-W	Winter	Moderate	<div><div>2%</div><div><1%</div></div>	   
Yellow-throated Vireo	F-E	Summer	Moderate	<div><div>12%</div><div>5%</div></div>	  
Cassin's Vireo	F-W	Winter	Neutral	<div><div>1%</div><div>3%</div></div>	  
Blue-headed Vireo	F-E	Winter	Low	<div><div>13%</div><div>26%</div></div>	  
Plumbeous Vireo	F-W	Summer	Neutral	<div><div>1%</div><div>2%</div></div>	  

































































































Species	Habitat Group	Season	Range-wide Vulnerability	State Trends	State Threats
Warbling Vireo	Gen	Summer	Neutral	4%	  
Red-eyed Vireo	F-E	Summer	Low	18% <1%	   
Green Jay	F-S	Summer	Low	8% 20%	  
	F-S	Winter	High	6% 16%	  
Steller's Jay	F-W	Summer	Moderate	<1%	
	F-W	Winter	Moderate	<1%	
Blue Jay	F-E	Summer	Neutral	24% 18%	  
	F-E	Winter	Neutral	7% 14%	  
Woodhouse's Scrub-Jay	F-W	Summer	Moderate	22% 5%	  
	F-W	Winter	Moderate	31% 7%	   
Mexican Jay	F-S	Summer	High	9% 1%	   
	F-S	Winter	Moderate	3% 1%	   
American Crow	Gen	Summer	Low	24% 37%	  
	Gen	Winter	Neutral	53% 35%	  
Fish Crow	Gen	Summer	High	7%	
	Gen	Winter	Low	13% 1%	   
Chihuahuan Raven	D	Summer	Neutral	45% 11%	  
	D	Winter	Neutral	26% 26%	  
Common Raven	Gen	Summer	Low	44% 14%	  
	Gen	Winter	Low	33% 25%	  
Horned Lark	G	Summer	Low	13% 8%	   
	G	Winter	Low	4% 28%	  
Northern Rough-winged Swallow	Gen	Summer	Neutral	50% 35%	   
	Gen	Winter	Neutral	1% 19%	  
Purple Martin	Gen	Summer	Neutral	43% 30%	   
Tree Swallow	Gen	Winter	Neutral	14% 14%	  
Violet-green Swallow	F-W	Summer	Moderate	1%	  
Bank Swallow	Gen	Summer	Neutral	3% 5%	  


























































































Species	Habitat Group	Season	Range-wide Vulnerability	State Trends	State Threats
	Gen	Winter	Low	<div><div></div>2%</div>	   
Barn Swallow	Gen	Summer	Neutral	<div><div>16%</div><div>76%</div></div>	   
Cliff Swallow	Gen	Summer	Neutral	<div><div>19%</div><div>69%</div></div>	   
Cave Swallow	D	Summer	Low	<div><div>30%</div><div>45%</div></div>	   
	D	Winter	Low	<div><div>7%</div><div>22%</div></div>	  
Carolina Chickadee	F-E	Summer	Neutral	<div><div>10%</div><div>23%</div></div>	  
	F-E	Winter	Low	<div><div>30%</div><div>2%</div></div>	  
Mountain Chickadee	F-W	Winter	High	<div><div><1%</div></div>	
Juniper Titmouse	F-W	Winter	Low	<div><div><1%</div></div>	
Tufted Titmouse	F-E	Summer	Neutral	<div><div>7%</div><div>12%</div></div>	  
	F-E	Winter	Neutral	<div><div>11%</div><div>8%</div></div>	  
Black-crested Titmouse	F-S	Summer	Neutral	<div><div>35%</div><div>39%</div></div>	   
	F-S	Winter	Neutral	<div><div>26%</div><div>23%</div></div>	   
Verdin	D	Summer	Neutral	<div><div>30%</div><div>30%</div></div>	  
	D	Winter	Neutral	<div><div>31%</div><div>25%</div></div>	  
Bushtit	F-W	Summer	High	<div><div>7%</div><div><1%</div></div>	  
	F-W	Winter	Moderate	<div><div>2%</div></div>	   
Red-breasted Nuthatch	F-B	Winter	Neutral	<div><div>62%</div></div>	  
White-breasted Nuthatch	F-E	Summer	Low	<div><div>31%</div><div><1%</div></div>	   
	F-E	Winter	Neutral	<div><div>40%</div><div><1%</div></div>	  
Brown-headed Nuthatch	F-E	Summer	High	<div><div>12%</div></div>	
	F-E	Winter	High	<div><div>12%</div></div>	   
Brown Creeper	F-W	Winter	Neutral	<div><div>73%</div><div>4%</div></div>	   
Rock Wren	D	Summer	Moderate	<div><div>1%</div><div>6%</div></div>	  
	D	Winter	Neutral	<div><div>50%</div><div>18%</div></div>	   
Canyon Wren	D	Summer	Neutral	<div><div>7%</div><div>5%</div></div>	  
	D	Winter	Neutral	<div><div>16%</div><div>18%</div></div>	   
House Wren	Gen	Winter	Neutral	<div><div>73%</div><div>13%</div></div>	   








































































Species	Habitat Group	Season	Range-wide Vulnerability	State Trends	State Threats
Winter Wren	F-E	Winter	Low	<div><div></div><div>11%</div><div><1%</div></div>	 
Sedge Wren	G	Winter	Neutral	<div><div>8%</div><div>43%</div><div></div></div>	  
Marsh Wren	M	Summer	Low	<div><div></div><div>1%</div><div><1%</div></div>	  
	M	Winter	Low	<div><div>33%</div><div>15%</div><div></div></div>	  
Carolina Wren	F-E	Summer	Neutral	<div><div>6%</div><div>44%</div><div></div></div>	  
	F-E	Winter	Neutral	<div><div>6%</div><div>43%</div><div></div></div>	  
Bewick's Wren	D	Summer	Neutral	<div><div>51%</div><div>22%</div><div></div></div>	   
	D	Winter	Low	<div><div>29%</div><div>55%</div><div></div></div>	   
Cactus Wren	D	Summer	Neutral	<div><div>37%</div><div>31%</div><div></div></div>	  
	D	Winter	Neutral	<div><div>35%</div><div>25%</div><div></div></div>	  
Blue-gray Gnatcatcher	Gen	Summer	Neutral	<div><div>8%</div><div>38%</div><div></div></div>	  
	Gen	Winter	Neutral	<div><div>21%</div><div>50%</div><div></div></div>	  
Black-tailed Gnatcatcher	D	Summer	Neutral	<div><div>13%</div><div>18%</div><div></div></div>	  
	D	Winter	Neutral	<div><div>9%</div><div>16%</div><div></div></div>	  
Golden-crowned Kinglet	F-B	Winter	Neutral	<div><div>23%</div><div>9%</div><div></div></div>	  
Ruby-crowned Kinglet	F-W	Winter	Neutral	<div><div>80%</div><div>9%</div><div></div></div>	   
Eastern Bluebird	F-E	Summer	Neutral	<div><div>18%</div><div>8%</div><div></div></div>	  
	F-E	Winter	Neutral	<div><div>9%</div><div>34%</div><div></div></div>	  
Western Bluebird	F-W	Summer	Moderate	<div><div>1%</div><div></div><div></div></div>	   
	F-W	Winter	High	<div><div>6%</div><div></div><div></div></div>	   
Mountain Bluebird	F-W	Winter	Low	<div><div>16%</div><div></div><div></div></div>	  
Townsend's Solitaire	F-W	Winter	High	<div><div>1%</div><div><1%</div><div></div></div>	   
Hermit Thrush	F-W	Winter	Low	<div><div>29%</div><div>35%</div><div></div></div>	  
Wood Thrush	F-E	Summer	High	<div><div>8%</div><div></div><div></div></div>	
	F-E	Winter	High	<div><div><1%</div><div><1%</div><div></div></div>	
American Robin	Gen	Summer	Moderate	<div><div>3%</div><div></div><div></div></div>	   
	Gen	Winter	Neutral	<div><div>49%</div><div>37%</div><div></div></div>	  
Gray Catbird	F-E	Summer	Neutral	<div><div>34%</div><div>7%</div><div></div></div>	  














































































Species	Habitat Group	Season	Range-wide Vulnerability	State Trends		State Threats			
Curve-billed Thrasher	F-E	Winter	Moderate	2%	4%				
	D	Summer	Neutral	31%	28%				
	D	Winter	Neutral	23%	39%				
Brown Thrasher	F-E	Summer	High	4%					
	F-E	Winter	Neutral	20%	8%				
Long-billed Thrasher	F-S	Summer	Moderate	6%	28%				
	F-S	Winter	Moderate	11%	29%				
Crissal Thrasher	D	Summer	Low	17%	12%				
	D	Winter	Low	16%	15%				
Sage Thrasher	D	Winter	Low	31%	4%				
Northern Mockingbird	Gen	Summer	Neutral	99%					
	Gen	Winter	Neutral	61%	31%				
American Pipit	A	Winter	Neutral	67%	15%				
Sprague's Pipit	G	Winter	Neutral	20%	61%				
Cedar Waxwing	Gen	Winter	Neutral	32%	36%				
Phainopepla	D	Summer	Neutral	9%	15%				
	D	Winter	Neutral	17%	10%				
Evening Grosbeak	F-B	Winter	Moderate	<1%					
House Finch	Gen	Summer	Low	26%	46%				
	Gen	Winter	Low	38%	32%				
Purple Finch	F-B	Winter	Low	9%					
Cassin's Finch	F-W	Winter	Moderate	14%	3%				
Red Crossbill	F-B	Winter	Moderate	<1%					
Pine Siskin	F-W	Winter	Neutral	27%	47%				
Lesser Goldfinch	F-W	Summer	Neutral	25%	49%				
	F-W	Winter	Neutral	43%	14%				
American Goldfinch	Gen	Winter	Neutral	27%	32%				
Lapland Longspur	A	Winter	Neutral	32%	<1%				
















Species	Habitat Group	Season	Range-wide Vulnerability	State Trends		State Threats			
Chestnut-collared Longspur	G	Winter	Moderate	22% 10%					
Smith's Longspur	A	Winter	Neutral	7% 4%					
McCown's Longspur	G	Winter	Moderate	12% 4%					
Botteri's Sparrow	G	Summer	High	33% 5%					
	G	Winter	Low	29% 24%					
Cassin's Sparrow	G	Summer	Low	57% 12%					
	G	Winter	Moderate	30% 25%					
Bachman's Sparrow	F-E	Summer	Moderate	5% 2%					
	F-E	Winter	Neutral	7% 2%					
Grasshopper Sparrow	G	Summer	Low	26% 4%					
	G	Winter	Neutral	17% 64%					
Olive Sparrow	F-S	Summer	Low	7% 22%					
	F-S	Winter	Low	7% 18%					
Chipping Sparrow	Gen	Winter	Neutral	41% 40%					
Clay-colored Sparrow	G	Winter	Neutral	15% 27%					
Black-chinned Sparrow	D	Summer	High	3% <1%					
	D	Winter	Low	16% 15%					
Field Sparrow	F-E	Summer	High	16%					
	F-E	Winter	Neutral	8% 65%					
Brewer's Sparrow	D	Winter	Moderate	17% 14%					
Black-throated Sparrow	D	Summer	Neutral	31% 29%					
	D	Winter	Neutral	27% 25%					
Lark Sparrow	D	Summer	Neutral	15% 70%					
	D	Winter	Neutral	44% 32%					
Lark Bunting	G	Summer	High	11%					
	G	Winter	Neutral	37% 23%					
American Tree Sparrow	A	Winter	Neutral	5%					

Species	Habitat Group	Season	Range-wide Vulnerability	State Trends	State Threats			
Fox Sparrow	F-B	Winter	Moderate	<div><div></div>8%</div>				
Dark-eyed Junco	F-W	Winter	Neutral	<div><div></div>71%<div></div>5%</div>				
White-crowned Sparrow	Gen	Winter	Neutral	<div><div></div>12%<div></div>65%</div>				
Harris's Sparrow	F-B	Winter	Low	<div><div></div>26%<div></div>1%</div>				
White-throated Sparrow	F-B	Winter	Neutral	<div><div></div>17%<div></div>51%</div>				
Sagebrush Sparrow	D	Winter	Neutral	<div><div></div>7%<div></div>11%</div>				
Vesper Sparrow	G	Winter	Neutral	<div><div></div>69%<div></div>20%</div>				
LeConte's Sparrow	G	Winter	Neutral	<div><div></div>22%<div></div>17%</div>				
Seaside Sparrow	C	Summer	Neutral	<div><div></div><1%<div></div>1%</div>				
	C	Winter	Moderate	<div><div></div>2%<div></div>2%</div>				
Nelson's Sparrow	G	Winter	High	<div><div></div>3%<div></div><1%</div>				
Savannah Sparrow	G	Winter	Low	<div><div></div>17%<div></div>56%</div>				
Henslow's Sparrow	G	Winter	Neutral	<div><div></div>13%<div></div>5%</div>				
Song Sparrow	Gen	Summer	Moderate	<div><div></div>6%</div>				
	Gen	Winter	Neutral	<div><div></div>47%<div></div>29%</div>				
Lincoln's Sparrow	F-B	Winter	Neutral	<div><div></div>62%<div></div>36%</div>				
Swamp Sparrow	M	Winter	Neutral	<div><div></div>11%<div></div>42%</div>				
Canyon Towhee	D	Summer	Low	<div><div></div>13%<div></div>20%</div>				
	D	Winter	High	<div><div></div>8%<div></div>4%</div>				
Abert's Towhee	D	Summer	Moderate	<div><div></div>11%</div>				
Rufous-crowned Sparrow	D	Summer	Low	<div><div></div>21%<div></div>13%</div>				
	D	Winter	High	<div><div></div>15%<div></div>2%</div>				
Green-tailed Towhee	D	Winter	Neutral	<div><div></div>17%<div></div>17%</div>				
Spotted Towhee	F-W	Summer	Moderate	<div><div></div>3%<div></div><1%</div>				
	F-W	Winter	Low	<div><div></div>31%<div></div>7%</div>				
Eastern Towhee	F-E	Winter	Neutral	<div><div></div>13%<div></div>13%</div>				
Yellow-breasted Chat	F-E	Summer	Neutral	<div><div></div>21%<div></div>23%</div>				
Yellow-headed Blackbird	M	Summer	Low	<div><div></div>18%</div>				

Species	Habitat Group	Season	Range-wide Vulnerability	State Trends		State Threats			
	M	Winter	Low	<div><div>15%</div></div>	<div><div>14%</div></div>				
Western Meadowlark	G	Summer	Low	<div><div>13%</div></div>					
	G	Winter	Neutral	<div><div>11%</div></div>	<div><div>49%</div></div>				
Eastern Meadowlark	G	Summer	Moderate	<div><div>33%</div></div>	<div><div>31%</div></div>				
	G	Winter	Neutral	<div><div>70%</div></div>	<div><div>22%</div></div>				
Orchard Oriole	F-E	Summer	Low	<div><div>36%</div></div>	<div><div>8%</div></div>				
Hooded Oriole	F-W	Summer	Neutral	<div><div>24%</div></div>	<div><div>32%</div></div>				
	F-W	Winter	Moderate	<div><div>2%</div></div>	<div><div>11%</div></div>				
Bullock's Oriole	F-W	Summer	Neutral	<div><div>47%</div></div>	<div><div>12%</div></div>				
	F-W	Winter	Moderate	<div><div>1%</div></div>					
Altamira Oriole	F-S	Summer	Neutral	<div><div>2%</div></div>	<div><div>12%</div></div>				
	F-S	Winter	Low	<div><div><1%</div></div>	<div><div>4%</div></div>				
Audubon's Oriole	F-S	Summer	Moderate	<div><div>5%</div></div>	<div><div>13%</div></div>				
	F-S	Winter	High	<div><div>8%</div></div>	<div><div>10%</div></div>				
Baltimore Oriole	F-E	Summer	Low	<div><div>10%</div></div>					
	F-E	Winter	High	<div><div>1%</div></div>					
Scott's Oriole	D	Summer	Neutral	<div><div>28%</div></div>	<div><div>27%</div></div>				
Red-winged Blackbird	Gen	Summer	Neutral	<div><div>59%</div></div>	<div><div>24%</div></div>				
	Gen	Winter	Neutral	<div><div>72%</div></div>	<div><div>20%</div></div>				
Bronzed Cowbird	D	Summer	Neutral	<div><div>17%</div></div>	<div><div>44%</div></div>				
	D	Winter	Neutral	<div><div>18%</div></div>	<div><div>43%</div></div>				
Brown-headed Cowbird	Gen	Summer	Neutral	<div><div>17%</div></div>	<div><div>80%</div></div>				
	Gen	Winter	Neutral	<div><div>74%</div></div>	<div><div>13%</div></div>				
Rusty Blackbird	F-B	Winter	Neutral	<div><div>22%</div></div>	<div><div>5%</div></div>				
Brewer's Blackbird	Gen	Winter	Neutral	<div><div>67%</div></div>	<div><div>24%</div></div>				
Common Grackle	F-E	Summer	Low	<div><div>33%</div></div>	<div><div>15%</div></div>				
	F-E	Winter	Neutral	<div><div>9%</div></div>	<div><div>15%</div></div>				
Boat-tailed Grackle	C	Summer	High	<div><div>2%</div></div>	<div><div>1%</div></div>				

Species	Habitat Group	Season	Range-wide Vulnerability	State Trends		State Threats			
	C	Winter	Moderate	<div><div></div></div>	<div><div></div></div>				
Great-tailed Grackle	Gen	Summer	Neutral	<div><div></div></div>	<div><div></div></div>				
	Gen	Winter	Neutral	<div><div></div></div>	<div><div></div></div>				
Ovenbird	F-E	Winter	Neutral	<div><div></div></div>	<div><div></div></div>				
Worm-eating Warbler	F-E	Summer	High	<div><div></div></div>					
Louisiana Waterthrush	F-E	Summer	Neutral	<div><div></div></div>	<div><div></div></div>				
Northern Waterthrush	F-B	Winter	Neutral	<div><div></div></div>	<div><div></div></div>				
Black-and-white Warbler	F-E	Summer	Moderate	<div><div></div></div>					
	F-E	Winter	Neutral	<div><div></div></div>	<div><div></div></div>				
Prothonotary Warbler	F-E	Summer	Neutral	<div><div></div></div>	<div><div></div></div>				
Swainson's Warbler	F-E	Summer	Low	<div><div></div></div>					
Orange-crowned Warbler	F-W	Winter	Neutral	<div><div></div></div>	<div><div></div></div>				
Lucy's Warbler	D	Summer	Low	<div><div></div></div>	<div><div></div></div>				
Nashville Warbler	F-E	Winter	Neutral	<div><div></div></div>	<div><div></div></div>				
Kentucky Warbler	F-E	Summer	Low	<div><div></div></div>					
Common Yellowthroat	Gen	Summer	Low	<div><div></div></div>	<div><div></div></div>				
	Gen	Winter	Neutral	<div><div></div></div>	<div><div></div></div>				
Hooded Warbler	F-E	Summer	Moderate	<div><div></div></div>					
American Redstart	F-B	Summer	Moderate	<div><div></div></div>					
	F-B	Winter	Neutral	<div><div></div></div>	<div><div></div></div>				
Northern Parula	F-E	Summer	Moderate	<div><div></div></div>	<div><div></div></div>				
	F-E	Winter	Moderate	<div><div></div></div>	<div><div></div></div>				
Tropical Parula	F-S	Summer	Low	<div><div></div></div>					
	F-S	Winter	Moderate	<div><div></div></div>	<div><div></div></div>				
Yellow Warbler	F-B	Winter	Neutral	<div><div></div></div>					
Palm Warbler	F-B	Winter	Low	<div><div></div></div>	<div><div></div></div>				
Pine Warbler	F-E	Winter	Neutral	<div><div></div></div>	<div><div></div></div>				
Yellow-rumped Warbler	F-B	Winter	Neutral	<div><div></div></div>	<div><div></div></div>				

Species	Habitat Group	Season	Range-wide Vulnerability	State Trends	State Threats
Yellow-throated Warbler	F-E	Summer	High	14% <1%	   
	F-E	Winter	Neutral	12% 31%	  
Prairie Warbler	F-E	Summer	Moderate	7%	   
	F-E	Winter	Low	4%	  
Black-throated Gray Warbler	F-W	Winter	Low	<1% 1%	  
Golden-cheeked Warbler	F-S	Summer	High	3% 2%	  
Black-throated Green Warbler	F-E	Winter	High	<1%	    
Wilson's Warbler	F-W	Winter	Low	6% 14%	  
Painted Redstart	F-S	Winter	Moderate	<1% <1%	
Hepatic Tanager	F-W	Summer	Moderate	3% <1%	  
Summer Tanager	F-E	Summer	Neutral	47% 23%	   
	F-E	Winter	Moderate	<1%	
Western Tanager	F-W	Summer	Moderate	<1% 2%	  
	F-W	Winter	Low	7%	  
Northern Cardinal	F-E	Summer	Neutral	84% 11%	   
	F-E	Winter	Neutral	56% 35%	   
Pyrrhuloxia	D	Summer	Neutral	41% 26%	  
	D	Winter	Neutral	43% 26%	   
Black-headed Grosbeak	F-W	Summer	Moderate	1% <1%	  
	F-W	Winter	Neutral	2% 11%	  
Blue Grosbeak	F-S	Summer	Neutral	53% 15%	   
	F-S	Winter	Neutral	3%	   
Lazuli Bunting	F-W	Summer	Neutral	6%	  
	F-W	Winter	Neutral	1% 2%	
Indigo Bunting	F-E	Summer	Moderate	12%	
Varied Bunting	D	Summer	Neutral	33% 25%	  
	D	Winter	Neutral	2%	

Species	Habitat Group	Season	Range-wide Vulnerability	State Trends	State Threats
Painted Bunting	D	Summer	Neutral	<div> <div>54%</div> <div>15%</div> </div>	<div> <div></div> <div></div> <div></div> <div></div> </div>
	D	Winter	Neutral	<div> <div>5%</div> </div>	<div> <div></div> <div></div> <div></div> <div></div> </div>
Dickcissel	G	Summer	Neutral	<div> <div>32%</div> <div>31%</div> </div>	<div> <div></div> <div></div> <div></div> </div>
	G	Winter	Neutral	<div> <div>4%</div> </div>	<div> <div></div> <div></div> <div></div> <div></div> </div>