

U.S. Fish & Wildlife Service

Birds of Conservation Concern 2021

Migratory Bird Program



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Allen's Hummingbird, Brima Battle/USFWS

Executive Summary

The 1988 amendment to the Fish and Wildlife Conservation Act mandates the U.S. Fish and Wildlife Service (USFWS) to identify species, subspecies and populations (hereafter taxa) of all migratory nongame birds that without additional conservation action are likely to become candidates for listing under the Endangered Species Act (ESA) of 1973. The Birds of Conservation Concern 2021 (BCC 2021) is the most recent effort to carry out this mandate. The overall goal of this report is to identify those bird taxa (beyond those already designated as federally threatened or endangered) that represent the highest conservation priorities of the USFWS. The BCC 2021 is intended to stimulate coordinated, collaborative and proactive conservation actions among international, federal, state, tribal and private partners.

The geographic scope of this endeavor is the United States of America (USA) in its entirety, including island states, commonwealths and territories in the Pacific Ocean and Caribbean Sea and the marine areas delineated as territorial sea, contiguous zone and exclusive economic zone. The BCC 2021 encompasses four distinct geographic scales: 1) the Continental USA, including Alaska; 2) Pacific Ocean islands, including Hawaii; 3) Puerto Rico, the U.S. Virgin Islands and Navassa; and 4) continental Bird Conservation Regions (BCRs) and Marine Bird Conservation Regions (MBCRs), as defined by Bird Studies Canada and NABCI (2014). New to the BCC 2021 is the explicit inclusion of MBCRs.

Bird taxa considered for the BCC 2021 lists include nongame birds, gamebirds without hunting seasons or where harvest is minimal, and subsistence-hunted nongame birds in Alaska. Excluded from consideration for the BCC 2021 are bird species not protected under the Migratory Bird Treaties (Federal Register 2020a), taxa already listed as threatened or endangered under the ESA, or taxa that only occur irregularly or peripherally in the USA. Our conservation assessment was based on several factors, including population abundance and trends, threats on breeding and nonbreeding grounds, and size of breeding and nonbreeding ranges. The factor scores and associated thresholds used for identifying birds of conservation concern in the 2014 State of the Birds Watch List (Rosenberg et al. 2014) and the Avian Conservation Assessment Database (Partners in Flight 2019, Punjabi et al. 2019) served as the foundation on which we developed the BCC 2021 lists. Thus, we sought consistency of the BCC 2021 with priorities

identified through these other efforts, noting that appropriate differences do occur due to the unique scope and mandate of the Birds of Conservation Concern. The BCC 2021 also represents the first time we tried to unify the assessment system among waterbirds, shorebirds and landbirds.

The BCC 2021 identifies 269 individual bird taxa of conservation concern. Of these, 135 taxa are of conservation concern at the Continental scale, 88 taxa at the BCR scale, 29 taxa on Puerto Rico and the Virgin Islands, and 35 taxa on Hawaii and the Pacific Islands; 18 taxa identified on the Continental/BCR lists are shared with either Puerto Rico and the Virgin Islands or Hawaii and the Pacific Islands. The number of taxa on the Hawaii/Pacific Island list appears deceptively low, because a high number of birds there are already listed under the ESA. The number of taxa listed within a BCR, which includes those identified as conservation concern at the Continental or BCR scales, ranges from 12 taxa in the Arctic Plains and Mountains to 49 taxa in Coastal California, with an average of 25.4 taxa per BCR. Among MBCRs, the number of taxa ranged from two taxa in the Chuckchi and Beaufort Seas to 13 taxa in the California Current, with an average of 7.4 taxa per MBCR.

Although the bird taxa included in the BCC 2021 are priorities for conservation action, this list makes no finding with regard to whether they warrant consideration for ESA listing. Our goal is to eliminate the need for additional ESA bird listings by implementing proactive management and conservation actions that sustain populations well above thresholds of endangerment. We recommend that these lists be consulted in accordance with Executive Order 13186, Responsibilities of Federal Agencies to Protect Migratory Birds. Many of the taxa identified herein are targets of ongoing conservation attention by national and international initiatives (e.g., Partners in Flight, U.S. Shorebird Conservation Partnership), Migratory Bird Joint Ventures, state and federal natural resource agencies, non-governmental organizations, and other partnerships.

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Reddish Egret, Keenan Adams/USFWS

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This edition of the BCC 2021 is dedicated to the original USFWS “Nongame 7” who retired since the previous publication of the Birds of Conservation Concern: Tara Zimmerman (Pacific Region), Bill Howe (Southwest Region), Steve Lewis (Midwest Region), Stephanie Jones (Mountain-Prairie Region), and Kent Wohl (Alaska Region). They all contributed significantly to past versions of the Birds of Conservation Concern and thereby supported the development of this report.

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Introduction

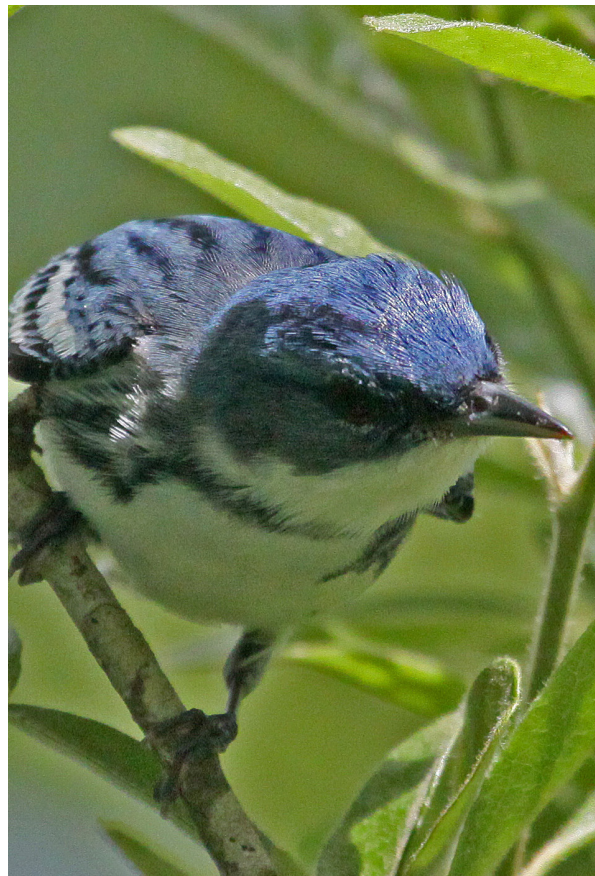
A Congressional amendment to the Fish and Wildlife Conservation Act (16 U.S.C. 2901–2912) in 1988 directed the Secretary of Interior, through the U.S. Fish and Wildlife Service (USFWS), to “identify species, subspecies, and populations of all migratory nongame birds that, without additional conservation actions, are likely to become candidates for listing under the Endangered Species Act (ESA) of 1973, as amended (16 U.S.C. 1531-1543)”. The intent of the legislation was to stimulate coordinated and proactive conservation actions among federal, state and tribal governments, non-governmental organizations (NGOs), and private partners in the United States (USA) before birds require protection under the ESA. Even prior to the passage of this amendment, the USFWS was providing periodic assessments of migratory birds that might become candidates for listing under the ESA, generating the first list of migratory nongame birds of management concern in 1982 (U.S. Fish and Wildlife Service 1982). Since that time, five additional lists have been published (U.S. Department of the Interior 1990; U.S. Fish and Wildlife Service 1987, 1995, 2002, 2008).

The Birds of Conservation Concern 2021 (BCC 2021) presented here is the most recent effort by the USFWS to carry out the Fish and Wildlife Conservation Act’s proactive conservation mandate and updates the Birds of Conservation Concern (BCC) 2008 (U.S. Fish and Wildlife Service 2008). Development of the BCC 2021 aligns with the USFWS mission of “working with others to conserve, protect, and enhance fish, wildlife, plants and their habitats for the continuing benefit of the American people” and meets the current USFWS objective to “guide the conservation, development, and management of the Nation’s fish and wildlife resources”. The overall goal of the BCC 2021 is to identify, by geography, those nongame migratory birds (beyond those already federally listed as threatened or endangered) in greatest need of conservation attention.

The philosophy underlying the BCC reports is that proactive bird conservation is critical at a time when continued human impacts will be intensified by effects of a changing climate. By investing in actions for designated BCC taxa, we can prevent further degradation to environments that we all share, improve the odds for successful long-term conservation, and avoid the complexities associated with federal ESA listing. Proactive conservation is recognized as being more cost-effective than the

recovery efforts required once a bird is listed under the ESA (e.g., Drechsler et al. 2011).

Because it is mandated by law and produced by the USFWS, federal agencies, international NGOs and foreign governments view the BCC list as the official USA Government position on migratory nongame birds of conservation concern. The BCC list is also used to identify priority wetland birds for evaluating North American Wetlands Conservation Act proposals, used in scoring of Neotropical Migratory Bird Conservation Act proposals, and referenced in Executive Order 13186, Responsibilities of Federal Agencies to Protect Migratory Birds. To promote more consistency among organizations developing various lists of birds of conservation concern, the BCC 2021 closely followed the methods used to generate the Watch List for the 2014 State of the Birds (Rosenberg et al. 2014), 2016 Partners in Flight Landbird Conservation Plan (Rosenberg et al. 2016) and Avian Conservation Assessment Database (Partners in Flight 2019). However, the BCC 2021 differs somewhat from these lists because of its unique scope and mandate.



Cerulean Warbler, Jerry Oldenettel CC BY 2.0

Methods

Geographic Scope

The geographic scope of the BCC 2021 consists of the entirety of the lands and waters of the USA, including states, commonwealths, territories and other affiliations in the Caribbean Sea and Pacific Ocean. Also included in the geographic scope are marine boundaries defined as the territorial sea, contiguous zone and exclusive economic zone (see <https://www.nauticalcharts.noaa.gov/csdl/mbound.htm>). To facilitate use and interpretation of the BCC 2021, we organized the presentation into four geopolitical and ecoregional groupings: 1) Continental USA, including Alaska; 2) Puerto Rico and the U.S. Virgin Islands, 3) Hawaii and the Pacific Islands, and 4) continental Bird Conservation Regions (BCRs) and Marine Bird Conservation Regions (MBCRs). Offshore jurisdictional waters associated with Hawaii and the Pacific Islands and Puerto Rico and the U.S. Virgin Islands are included in their respective regions. We decided to treat states, commonwealths, territories and other affiliations in the Caribbean Sea and Pacific Ocean separately because of the high endemism and high vulnerability of island avifauna (Kier et al. 2009). Descriptions of states, commonwealths, territories and other affiliations in the Caribbean Sea and Pacific Ocean are provided in Table 1, and BCRs and MBCRs are described in Table 2 and illustrated in Figure 1. For details on BCRs and MBCRs, please see Bird Studies Canada and NABCI (2014).

Birds Considered

The taxonomic scope for the BCC 2021 is bounded by the Migratory Bird Treaties that the USA has with Canada (1916), Mexico (1936), Japan (1972) and Russia (1976). The USFWS periodically updates the list of migratory birds covered by these treaties, which usually results from changes in taxonomy, status or distribution. The most recent published list of migratory birds (Federal Register 2020b) was used as the basis for developing the BCC 2021. Within this list, birds considered for inclusion in the BCC 2021 either do not have sport-hunting seasons in the USA or have sporting-hunting seasons where little harvest occurs (e.g., rails). Birds that are not sport-hunted in the lower 48 states but are hunted for subsistence in Alaska are also considered. Because the intent of BCC is to highlight potential candidate birds where ESA listing could be averted through proactive conservation attention, the BCC 2021 further excludes any species, subspecies or population of bird already listed as threatened or endangered under ESA. We also eliminated from consideration any bird that currently occurs as an accidental species in the USA per the AOU

Checklist (1983) and subsequent updates, or that was introduced into the USA by humans (Federal Register 2005). Although there is a conservation benefit to protecting accidental species that may potentially expand their regular range into the U.S. in the future, additional conservation actions are not currently necessary and would have little effect on the present status of those species. We use the term “taxon” or “taxa” to refer to species, subspecies and delineated populations of birds considered for the BCC 2021.

To present a more comprehensive perspective on the conservation status of birds within the jurisdictions of the USA, we provide additional information in Appendix 1 on taxa that do not fall within the scope of the BCC 2021 but were identified on the Watch Lists of the State of the Birds (Rosenberg et al. 2014) or in the Avian Conservation Assessment Database (Partners in Flight 2019); were listed as endangered or threatened under the ESA as of January 15, 2021; or are believed to be extinct. To our knowledge, a comprehensive presentation of all birds with an elevated conservation status within the USA was heretofore unavailable.

In general, common and scientific names of birds are presented at the species level, except where it is necessary to differentiate among taxa of a species that may occur in the USA but differ in their conservation status among geographic scales or populations (e.g., taxa listed under the ESA). Relevant taxa of island populations are also identified. Geographic and other modifiers are used throughout the tables to aid in identifying such differentiation, particularly at the BCR and MBCR scales. Species-level classification generally follows the American Ornithologists' Union's Checklist of North American Birds, 7th Edition (1983), including changes and supplements through the 61st supplement in 2020 (Chesser et al. 2020). Subspecies and population classification and species classification in the Pacific Islands generally follows Clements et al. (2019), with some exceptions for shorebirds (see Andres et al. 2012).

Assessing Conservation Status

The BCC 2021 represents the first application of a unified approach to evaluate the conservation status of landbirds, shorebirds and waterbirds for the BCC — an approach greatly facilitated through the efforts to promote consistency during the development of the State of the Birds Watch List in 2014 (Rosenberg et al. 2014). Although the overall approach to evaluate conservation status across all

bird groups for the BCC 2021 is now more consistent than previous BCC assessments, data availability and quality still vary widely among taxonomic groups.

Scoring factors and criteria developed by Partners in Flight (Rosenberg et al. 2016, Panjabi et al. 2019) were the primary means for evaluating conservation status of landbirds, shorebirds, and waterbirds. For areas or taxa where it was not possible to directly apply this evaluation approach, we consulted State Wildlife Action Plans for American Samoa (Department of Marine and Wildlife Resources 2006, 2015), Guam (Guam Division of Aquatic and Wildlife Resources 2006), Hawaii (Hawai'i Department of Land and Natural Resources 2015), the Northern Mariana Islands (Liske-Clark 2015), Puerto Rico (Puerto Rico Department of Natural and Environmental Resources 2015), and the U.S. Virgin Islands (Platenberg and Valiulis 2018). We also consulted the IUCN Red List of Threatened Species (2019), particularly for seabirds.

The intent of the assessment for landbirds, shorebirds and waterbirds is to emphasize their

conservation status relative to the entire USA. The conservation status of many landbirds reflects their global status, in the case of entire species that breed in, migrate through or winter in the USA. In contrast, most waterbirds and shorebirds tend to have cosmopolitan distributions, and their conservation at the species level includes populations occurring outside of the USA; therefore, we evaluated several species of shorebirds and waterbirds at the North American population scale. At the BCR and MBCR scales, we evaluated the conservation status of taxa relative to each region, to the degree available data and current understanding allowed.

Scores ranging from one to five were assigned to each of six assessment factors, which are presented below along with scoring criteria (see Panjabi et al. 2019 for details). Data on these six factors were recently updated for shorebirds (U.S. Shorebird Conservation Partnership 2016), landbirds (Partners in Flight 2019) and waterbirds (BirdLife International 2015; Wetlands International 2015; Partners in Flight 2019; L. Wires, unpublished data).



Black-footed Albatross pair, Dan Clark/USFWS

Population Size (PS).

The current estimated number of individuals of a taxon. The factor generally refers to the number of breeding adults but varies somewhat among taxonomic groups due to differing biology and estimation methods.

Score	Criterion
1	≥50,000,000 individuals
2	≥5,000,000 and <50,000,000 individuals
3	≥500,000 and <5,000,000 individuals
4	≥50,000 and <500,000 individuals
5	<50,000 individuals

Breeding Distribution (BD) and Nonbreeding Distribution (ND).

This factor is generally derived from maps developed by NatureServe (2015) and Birdlife International (2015). All range sizes are derived from two-dimensional polygons. For island-breeding seabirds, the breeding distribution generally refers to the size of their nesting islands and does not include pelagic foraging areas, which are hard to delineate for many taxa.

Score	Criterion
1	≥4,000,000 km ²
2	≥1,000,000 and <4,000,000 km ²
3	≥300,000 and <1,000,000 km ²
4	≥80,000 and <300,000 km ²
5	<80,000 km ²

Breeding Threats (TB) and Nonbreeding Threats (TN).

Threats were evaluated based on the cumulative level of significance to the future viability of a taxon within the geographic region of interest. For taxa that are widely dispersed during migration (e.g., landbirds), TN primarily reflects threats during the boreal winter; for groups that aggregate during migration (e.g., shorebirds), TN reflects migration and wintering threats.

Score	Criterion
1	Future conditions are expected to significantly improve for the majority of the taxon.
2	Future conditions are expected to remain stable; no significant threats.
3	Slight to moderate decline in the future suitability of conditions is expected for the majority of the taxon.
4	Severe deterioration in the future suitability of conditions is expected for the majority of the taxon.
5	Extreme deterioration in the future suitability of conditions is expected.

Population Trend (PT).

Forty-year trends from the Breeding Bird Survey (Criterion 1; see <https://www.mbr-pwrc.usgs.gov/>) provided information on the majority of landbirds. For waterbirds and shorebirds, information was used from a variety of sources and was less comprehensive and quantitative (Criterion 2).

Score	Criterion 1	Criterion 2
1	change ≥ 50%; P ≤ 0.1	significant large increase
2	change 0 to 50%; P ≤ 0.1 change > 0%; P ≤ 0.33 change > -15%; P ≤ 0.33; reliable	significant small increase possible increase stable
3	P > 0.33; unreliable or change ≤ -15%; P > 0.33; reliable change -15% to 0%; 0.1 < P < 0.33 change -15% to 0%; P ≤ 0.1	uncertain population change possible small decrease significant small decrease
4	change -15% to -50%; 0.1 < P < 0.33 change -15% to -50%; P ≤ 0.1 change ≤ -50%; 0.1 < P < 0.33	moderate decrease possible large decrease
5	change ≤ -50%; P ≤ 0.1	significant large decrease

Relative Density (RD).

Relative Density is an additional factor assessed at the BCR/MBCR scale but not at the continental scale. RD scores reflect the mean density of a taxa within a BCR/MBCR relative to density in the single BCR/MBCR in which the taxa occurs in its highest density (Panjabi et al. 2019). Nonbreeding season scores and those for MBCRs were often generated using expert opinion).

Score	Quantitative Criterion		Qualitative Criterion
	Relative abundance	Relative frequency	
0		BCR relative frequency < 1.5% of the maximum relative frequency	has occurred only irregularly, or strong evidence of regular occurrence is lacking
1	BCR relative abundance < 1% of the maximum relative abundance	BCR relative frequency 1.5-3.6% of maximum relative frequency	occurs regularly but in very small numbers or in only a very small part of the region in question
2	BCR relative abundance 1-10% of maximum relative abundance	BCR relative frequency 3.6-21.7% of maximum relative frequency	occurs in low mean abundance relative to the region(s) in which the taxa occurs in maximum density
3	BCR relative abundance 10-25% of maximum relative abundance	BCR relative frequency 21.7-44.6% of maximum relative frequency	occurs in moderate mean abundance relative to the region(s) in which the taxa occurs in maximum density
4	BCR relative abundance 25-50% of maximum relative abundance	BCR relative frequency 44.6-68.1% of maximum relative frequency	occurs in moderately high mean abundance relative to the region(s) in which the taxa occurs in maximum density
5	BCR relative abundance > 50% of maximum relative abundance	BCR relative frequency > 68.1% of maximum relative frequency	occurs in high mean abundance, similar to the region(s) in which the taxa occurs in maximum density

Identifying Birds of Conservation Concern

The following Combined Continental Scores (CCS) of factors and scoring thresholds, based primarily on Panjabi et al. (2019), were used to identify taxa of elevated conservation concern:

$$CCS(max) \geq 14 \text{ or } CCS(max) = 13 \text{ and } PT = 5, \text{ where}$$

CCS(max) is the maximum score of either CCS(B) or CCS(N),
 CCS(B) is Combined Continental Score (Breeding) = PS + BD + TB + PT, and
 CCS(N) is Combined Continental Score (Nonbreeding) = PS + ND + TN + PT.

of elevated conservation concern regionally. Taxa included as birds of conservation concern at the BCR scale had RD ≥ 2 and met the following scoring thresholds, based on the Partners in Flight action codes (Panjabi et al. 2019) at the regional scale:

- 1) TB or TN = 5 (Critical Recovery); or
- 2) TB or TN = 4 and PT = 5 (Immediate Management); or
- 3) Combined Regional Breeding Score (CRBS) ≥ 17, and
 - a) TB or TN = 3 and PT ≥ 4 or (Management Attention)
 - b) TB or TN = 4 and PT < 5 (Management Attention).

The above criteria are consistent with a breeding season Watch List designation at a North American continental scale (USA and Canada) in the recently published version of the Avian Conservation Assessment Database (Panjabi et al. 2019).

To be included as a Bird of Conservation Concern at the BCR or MBCR scale, a taxon had to meet the Watch List criteria above and had to occur regularly within the region at a manageable level (RD ≥ 2). Taxa breeding in a BCR were generally assessed using the quantitative criteria, whereas nonbreeding taxa were most often assessed using the qualitative criteria.

At the BCR scale, we identified additional taxa that did not meet the criteria for the BCC 2021 Continental list (Watch List) but were nonetheless

The CRBS is equivalent to the CCS(B) + RD. Inclusion of nonbreeding taxa at the BCR level was generally based on expert opinion, because BCR-scale nonbreeding scores are not yet incorporated into the Avian Conservation Assessment Database (Panjabi et al. 2019).

These regional criteria for the BCC 2021 were more stringent than the criteria used in the Avian Conservation Assessment Database to identify species of regional concern (Panjabi et al. 2019) but better address the overall mandate of the BCC. A few taxa below the species level were elevated to the Continental list due to continued concern expressed by partners or were subspecies unique to North America (e.g., Swallow-tailed Kite, Gray-headed Chickadee).

Results and Discussion

The BCC 2021 identifies 269 individual bird taxa of conservation concern (Appendix 1). Of these, 135 taxa are of conservation concern at the Continental scale, 88 taxa at the BCR scale, 29 taxa on Puerto Rico and the Virgin Islands and 35 taxa on Hawaii and the Pacific Islands; 18 taxa identified on the Continental/BCR lists are shared with either Puerto Rico and the Virgin Islands or Hawaii and the Pacific Islands (Table 3). The number of taxa on the Hawaii/Pacific Island list appears deceptively low, because a relatively high number of birds there are already listed under the ESA or are extinct (Appendix 2). A few of the taxa identified in the BCC 2021 are currently being considered for listing or de-listing under the ESA.

All major bird groups are represented in the BCC 2021, but shorebirds, seabirds and some landbirds have particularly high representation (Table 4). Of eligible taxa, 53% of shorebirds and 48% of seabirds met criteria for inclusion in the BCC 2021. Based on habitat designations of landbirds provided in Rosenberg et al. (2019), which apply to the Continental and BCR scales (Table 4), a high percentage of taxa inhabiting grasslands (54%)

and aridlands (47%) were included in the BCC 2021, as were aerial insectivores (31%). Excluding aridland birds, the other groups experienced the greatest losses of individuals over the last fifty years (Rosenberg et al. 2019).

The BCR/MBCR lists incorporate the 135 taxa of Continental concern where they are considered to occur at manageable levels and include an additional 88 taxa of regional concern within specific BCRs or MBCRs. The number of taxa listed within a BCR ranges from 12 taxa in the Arctic Plains and Mountains to 49 taxa in Coastal California, with an average of 25.4 taxa per BCR (see Tables 5-10). Among MBCRs, the number of taxa ranged from two taxa in the Chuckchi and Beaufort Seas to 13 taxa in the California Current, with an average of 7.4 taxa per MBCR (see Tables 5, 6, 8 and 10).

The BCC 2021 is the latest update in a continuing effort to assess and prioritize migratory birds for conservation purposes (U.S. Department of the Interior 1990; U.S. Fish and Wildlife Service 1982, 1987, 1995, 2002, 2008). Overall, it is difficult to make meaningful comparisons among the lists over the years because of differences in the way each list was constructed. However, the 2021 and 2008 lists were most similar in the assessment approach, with the exception of inclusion of some taxa in 2008 not considered in 2021. Accounting for this difference, the number of taxa was essentially the same on the Continental list between years (133 versus 132 in 2008), had a small increase (8%) on Puerto Rico/Virgin Islands list (28 versus 26 in 2008), and a significant increase (52%) on the Hawaii/Pacific Islands list (35 versus 23 in 2008). Between years, nine taxa identified in the 2008 BCC were listed under the ESA in 2021, and three species de-listed during the period were included in BCC 2021. The increase in Hawaii and the Pacific Islands is attributed to a more thorough treatment of Pacific Islands beyond Hawaii and inclusion of more seabird taxa; additional nonbreeding seabird taxa occurring in continental USA waters were included on the Continental list. Similar numbers of taxa were identified at the BCR level in 2008 and 2021 (84 taxa versus 83). Notwithstanding these differences, a number of taxa identified in 2008 are not included in the BCC 2021, which reflects a real change in our understanding of current conservation status. We do not present USFWS Region lists in 2021 as we did in 2008 and recognize the current acceptance of BCRs and MBCRs as fundamental conservation planning and implementation units.



Wilson's Plover. Russ/CC BY 2.0

The State of the Birds produced in 2014 (North American Bird Conservation Initiative, U.S. Committee 2014) provides more details on how land-use change and other environmental threats affect birds in the major ecosystems in the USA, and a more recent analysis provides an overview of declines and losses of birds in North America (Rosenberg et al. 2019). As with the results presented in the BCC 2021, island birds, grassland birds, seabirds and shorebirds demonstrate the greatest conservation need. Although we did not build specific climate change scoring into the current assessment, the 2010 State of the Birds provided an overview of climate change effects on USA birds (North American Bird Conservation Initiative, U.S. Committee 2010). Future updates to the Birds of Conservation Concern might consider including measures of the potential effects of climate change.

Although all of the bird taxa included in the BCC 2021 are priorities for conservation action, this list makes no finding with regard to whether they warrant consideration for ESA listing. Our goal is to avert the need for additional ESA bird listings by implementing and coordinating implementation of proactive management and conservation actions. We recommend that these lists be consulted in accordance with Executive Order 13186, Responsibilities of Federal Agencies to Protect Migratory Birds. The BCC 2021 is intended to stimulate coordinated and collaborative proactive conservation actions among federal, state, tribal and private partners. Many of the taxa identified herein are targets of ongoing conservation attention by national and international initiatives (e.g., Partners in Flight, U.S. Shorebird Conservation Partnership), Migratory Bird Joint Ventures, state and federal natural resource agencies, NGOs, and other partnerships.



Eastern Whip-poor-will, Susan Young/CC1.0

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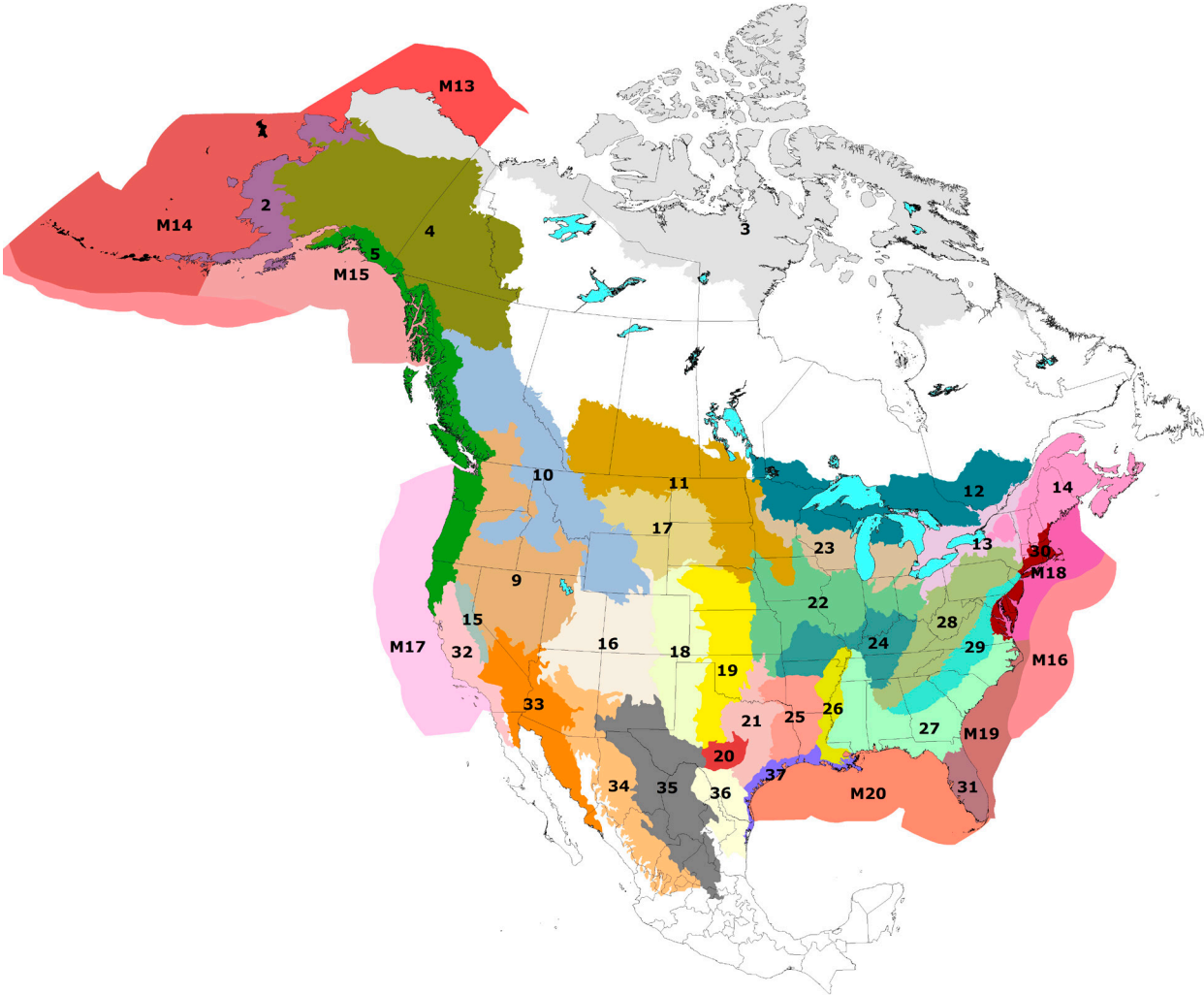
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Mariana Fruit-dove, Laura Wolf/CC BY 2.0

Figures

Figure 1.
Map of terrestrial Bird Conservation Regions (BCRs) Marine Bird Conservation Regions (MBCRs) of North America (Bird Studies Canada and NABCI 2014). See Table 2 for BCR and MBCR names.



Tables

Table 1.

Island states, commonwealths, territories and other affiliations of the United States (USA), including the USA territorial sea, contiguous zone and exclusive economic zone considered in the development of the Birds of Conservation Concern 2021.

Hawaii and Pacific Islands

State of Hawaii

American Samoa (unincorporated and unorganized territory)

Commonwealth of the Northern Marianas Islands (aligned through a covenant of “political union”)

Guam (unincorporated organized territory)

Unincorporated territories administered by the U.S. Fish and Wildlife Service (USFWS) as National Wildlife Refuges (NWR) unless noted.

Howland Island

Jarvis Island

Johnston Atoll (joint control with the Department of Defense)

Kingman Reef

Midway Atoll

Palmyra Atoll (partially privately owned)

Wake Island (administered by the Department of the Interior)

Puerto Rico and U.S. Virgin Islands

Commonwealth of Puerto Rico (commonwealth)

U.S. Virgin Islands (unincorporated organized territory)

Navassa Island (administered by the USFWS as a NWR)



King Rail, Alan Schmitter/CC0 1.0

Table 2.

Terrestrial Bird Conservation Regions (BCR) and Marine Bird Conservation Regions (MBCR) either wholly or partially within the jurisdiction of the Continental USA, including Alaska, used in the Birds of Conservation Concern 2021.

BCR/ MBCR	BCR/MBCR Name
1	Aleutian/Bering Sea Islands
2	Western Alaska
3	Arctic Plains and Mountains
4	Northwestern Interior Forest
5	Northern Pacific Rainforest
9	Great Basin
10	Northern Rockies
11	Prairie Potholes
12	Boreal Hardwood Transition
13	Lower Great Lakes/St. Lawrence Plain
14	Atlantic Northern Forest
15	Sierra Nevada
16	Southern Rockies/Colorado Plateau
17	Badlands and Prairies
18	Shortgrass Prairie
19	Central Mixed-grass Prairie
20	Edwards Plateau
21	Oaks and Prairies
22	Eastern Tallgrass Prairie
23	Prairie Hardwood Transition
24	Central Hardwoods
25	West Gulf Coastal Plain/Ouachitas
26	Mississippi Alluvial Valley
27	Southeastern Coastal Plain
28	Appalachian Mountains
29	Piedmont
30	New England/Mid-Atlantic Coast
31	Peninsular Florida
32	Coastal California
33	Sonoran and Mohave Deserts
34	Sierra Madre Occidental
35	Chihuahuan Desert
36	Tamaulipan Brushlands
37	Gulf Coastal Prairie
M13	Chukchi and Beaufort Seas
M14	East Bering Sea
M15	Gulf of Alaska
M17	California Current
M18	Northeast U.S. Continental Shelf and U.S. waters (M16) beyond the shelf
M19	Southeast U.S. Continental Shelf and U.S. waters (M16) beyond the shelf
M20	Gulf of Mexico

Table 3.

Birds of Conservation Concern 2021 in the Continental USA (CON), continental Bird Conservation Regions (BCR), Puerto Rico and Virgin Islands (PRVI), and Hawaii and Pacific Islands (HAPI). Refer to Appendix 1 for scientific names of species, subspecies and populations. Breeding (X) and nonbreeding (nb) status are indicated for each geography. Parenthesized names indicate conservation concern only exists for a specific subspecies or population.

Common Name	CON	BCR	PRVI	HAPI
West Indian Whistling-Duck			X	
Pacific Black Duck (Palau)				X
White-cheeked Pintail (West Indies)			X	
Masked Duck			X	
Ruddy Duck (West Indies)			X	
Western Grebe	X			
Clark's Grebe	X			
White-crowned Pigeon	X		X	
White-throated Ground Dove				X
Bridled Quail-Dove			X	
Many-colored Fruit-Dove				X
Mariana Fruit-Dove				X
Pacific Imperial-Pigeon (Pacific)				X
Yellow-billed Cuckoo (Eastern)		X		
Mangrove Cuckoo		X		
Black-billed Cuckoo	X			
Common Nighthawk (Lesser)		X		
Common Nighthawk (Henry's)		X		
Chuck-will's Widow		X		
Eastern Whip-poor-will	X			
Mexican Whip-poor-will	X			
Black Swift	X		X	
Chimney Swift	X			
Vaux's Swift (Vaux's)		X		
Antillean Mango (Puerto Rican)			X	
Lucifer Hummingbird	X			
Costa's Hummingbird		X		
Calliope Hummingbird	X			
Rufous Hummingbird	X			
Allen's Hummingbird	X			
Broad-tailed Hummingbird	X			
King Rail	X			
American Coot (Caribbean)			X	
Australasian (Purple) Swamphen (Samoan)				X
Spotless Crake (Tongan)				X
Yellow Rail	X			
Yellow-breasted Crake (Henderson's)			X	
Limpkin (Puerto Rican/Hispaniolan)			X	
American Avocet		X		
American Oystercatcher	X		X	
Black Oystercatcher	X			

Common Name	CON	BCR	PRVI	HAPI
American Golden-Plover	X			
Wilson's Plover	X		X	
Mountain Plover	X			
Snowy Plover (Interior/Gulf Coast)	X			
Snowy Plover (Caribbean)			X	
Upland Sandpiper		X		
Bristle-thighed Curlew	X			nb
Whimbrel (Atlantic)		X		
Long-billed Curlew		X		
Bar-tailed Godwit	X			
Hudsonian Godwit	X			
Marbled Godwit	X			
Ruddy Turnstone (Atlantic)		X		
Black Turnstone	X			
Red Knot (Pacific)	X			
Dunlin (Northern Alaska)		X		
Dunlin (Hudson Bay)		X		
Rock Sandpiper (Pribilof)		X		
Purple Sandpiper	X			
Buff-breasted Sandpiper	X			
Pectoral Sandpiper	X			
Semipalmated Sandpiper (Eastern/Central)		X	nb	
Short-billed Dowitcher	X			
Solitary Sandpiper (Western)		X		
Wandering Tattler	X			nb
Lesser Yellowlegs	X		nb	
Willet	X		nb	
Marbled Murrelet (Alaska)	X			
Kittlitz's Murrelet	X			
Scripps's Murrelet	X			
Guadalupe Murrelet	nb			
Craveri's Murrelet	nb			
Ancient Murrelet	X			
Cassin's Auklet		X		
Whiskered Auklet	X			
Tufted Puffin		X		
Red-legged Kittiwake	X			
Ivory Gull	nb			
Ross's Gull	nb			
Franklin's Gull	X			
Heermann's Gull	X			
Western Gull	X			
Yellow-footed Gull	nb			
California Gull	X			
Black Noddy (Hawaiian)				X
Blue-gray Noddy (Hawaiian)				X

Common Name	CON	BCR	PRVI	HAPI
Gray-backed Tern				X
Aleutian Tern	X			
Least Tern (Atlantic/Interior)	X		X	
Gull-billed Tern	X			
Black Tern	X			
Common Tern		X		
Forster's Tern		X		
Sandwich Tern		X		
Elegant Tern	X			
Black Skimmer	X			
White-tailed Tropicbird (Atlantic)			X	
Red-billed Tropicbird (Caribbean)			X	
Red-tailed Tropicbird (Black-billed)				X
Yellow-billed Loon	X			
Laysan Albatross	nb			X
Black-footed Albatross	nb			X
Polynesian Storm-Petrel				nb
Ashy Storm-Petrel	X			
Band-rumped Storm-Petrel (Atlantic)	nb			
Black Storm-Petrel	X			
Tristram's Storm-Petrel				X
Murphy's Petrel	nb			
Mottled Petrel	nb			nb
Black-capped Petrel	nb			
Bonin Petrel				X
Fea's Petrel	nb			
Cook's Petrel	nb			nb
Tahiti Petrel				X
Bulwer's Petrel				X
Cory's Shearwater	nb			
Buller's Shearwater	nb			nb
Pink-footed Shearwater	nb			
Christmas Shearwater				X
Manx Shearwater	nb			
Black-vented Shearwater	nb			
Audubon's Shearwater	nb		X	
Magnificent Frigatebird		X	X	
Great Frigatebird (Central Pacific)				X
Masked Booby (Atlantic)			X	
Red-footed Booby (Atlantic)			X	
Brandt's Cormorant	X			
Red-faced Cormorant	X			
American White Pelican		X		
Brown Pelican (Caribbean)			X	
Great Blue Heron (Great White)		X		
Little Blue Heron		X		

Common Name	CON	BCR	PRVI	HAPI
Reddish Egret	X			
Swallow-tailed Kite	X			
Northern Harrier		X		
Harris's Hawk		X		
'lo				X
Ferruginous Hawk		X		
Flammulated Owl	X			
Puerto Rican Screech-Owl (Virgin Islands)			X	
Whiskered Screech-Owl	X			
Western Screech-Owl (Northern Pacific)		X		
Snowy Owl	X			
Burrowing Owl (Western)		X		
Burrowing Owl (Florida)		X		
Spotted Owl (California)	X			
Long-eared Owl	X			
Short-eared Owl	X			
Pueo				X
Northern Saw-whet Owl		X		
Elegant Trogon	X			
Mariana Kingfisher				X
Belted Kingfisher		X		
Lewis's Woodpecker	X			
Red-headed Woodpecker	X			
Gila Woodpecker		X		
Williamson's Sapsucker (Rocky Mountain)		X		
Nuttall's Woodpecker		X		
White-headed Woodpecker (California)		X		
Arizona Woodpecker	X			
Gilded Flicker	X			
American Kestrel (Southeast)		X		
Prairie Falcon		X		
Olive-sided Flycatcher	X			
Cordilleran Flycatcher		X		
Loggerhead Shrike (Eastern)		X		
Black-capped Vireo	X			
Puerto Rican Vireo			X	
Plumbeous Vireo		X		
Pinyon Jay	X			
Island Scrub-Jay	X			
Woodhouse's Scrub-Jay (Woodhouse's)		X		
Clark's Nutcracker		X		
Yellow-billed Magpie	X			
Chihuahuan Raven		X		
Black-capped Chickadee (Appalachian)		X		
Mexican Chickadee	X			
Chestnut-backed Chickadee (Northern)		X		

Common Name	CON	BCR	PRVI	HAPI
Gray-headed Chickadee (Alaska)	X			
Oak Titmouse	X			
Verdin (Southwest)		X		
White-breasted Nuthatch (Slender-billed)		X		
Brown-headed Nuthatch		X		
Marsh Wren (Worthington's)		X		
Bewick's Wren (Eastern)		X		
Cactus Wren (Speckled)		X		
American Dipper		X		
Wrentit	X			
'Ōma'o				X
Veery (Eastern)		X		
Bicknell's Thrush	X			
Wood Thrush	X			
Varied Thrush (Pacific)		X		
Curve-billed Thrasher (Brownsville)		X		
Curve-billed Thrasher (Palmer's)		X		
Bendire's Thrasher	X			
California Thrasher	X			
LeConte's Thrasher	X			
Sage Thrasher		X		
Phainopepla (Southwest)		X		
Sprague's Pipit	X			
Evening Grosbeak	X			
Maui 'Alauahio				X
'Apapane				X
Anianiau				X
Hawai'i 'Amakihi				X
O'ahu 'Amakihi				X
Kaua'i 'Amakihi				X
Black Rosy-Finch	X			
Brown-capped Rosy-Finch	X			
Cassin's Finch	X			
Cassia Crossbill	X			
Lawrence's Goldfinch	X			
Chestnut-collared Longspur	X			
Thick-billed Longspur	X			
McKay's Bunting	X			
Rufous-winged Sparrow	X			
Cassin's Sparrow		X		
Bachman's Sparrow	X			
Grasshopper Sparrow (Northern)		X		
Lark Bunting		X		
Black-chinned Sparrow	X			
Field Sparrow		X		
Vesper Sparrow (Oregon)		X		

Common Name	CON	BCR	PRVI	HAPI
LeConte's Sparrow	X			
Seaside Sparrow (Atlantic/Gulf)	X			
Saltmarsh Sparrow	X			
Baird's Sparrow	X			
Henslow's Sparrow	X			
Savannah Sparrow (Belding's)		X		
Song Sparrow (Alameda/Samuels)		X		
Song Sparrow (Channel Island)		X		
Rufous-crowned Sparrow (Rock)		X		
Yellow-breasted Chat (Eastern)		X		
Yellow-headed Blackbird		X		
Bobolink	X			
Eastern Meadowlark		X		
Puerto Rican Oriole			X	
Orchard Oriole		X		
Bullock's Oriole		X		
Scott's Oriole		X		
Tricolored Blackbird	X			
Rusty Blackbird		X		
Golden-winged Warbler	X			
Blue-winged Warbler		X		
Prothonotary Warbler	X			
Colima Warbler	X			
Virginia's Warbler	X			
Connecticut Warbler	X			
Kentucky Warbler	X			
Common Yellowthroat (San Francisco)		X		
Kirtland's Warbler	X			
Cape May Warbler		X		
Cerulean Warbler	X			
Bay-breasted Warbler		X		
Prairie Warbler	X		nb	
Grace's Warbler	X			
Black-throated Gray Warbler		X		
Hermit Warbler		X		
Black-throated Green Warbler (Wayne's)		X		
Canada Warbler	X			
Red-faced Warbler	X			
Scarlet Tanager		X		
Pyrrhuloxia	X			
Rose-breasted Grosbeak		X		
Varied Bunting	X			
Painted Bunting		X		
Dickcissel		X		
Totals	135	88	29	35

Table 4.

Numbers of taxa of Birds of Conservation Concern 2021 represented on the Continental USA (CON), continental Bird Conservation Region (BCR), Puerto Rico and Virgin Islands (PRVI), Hawaii and Pacific Islands (HAPI) lists by general taxonomic groups and by habitats within landbirds. Also presented are the unique taxa represented on all lists.

	CON	BCR	PRVI	HAPI	Unique Taxa
Landbirds ¹	71	69	8	14	159
aerial insectivores ²	5	4	1		
grasslands	7	9			
forests	38	33	5	12	
aridlands	13	13			
wetlands	3	8			
other habitats	5	2	2	2	
Shorebirds ³	19	10	6	2	30
Seabirds ⁴	36	7	7	16	58
Waterbirds ⁵	8	3	8	3	22
All Taxa	134	88	29	35	269

¹Doves and pigeons; cuckoos; nightjars and allies; swifts; hummingbirds; eagles and hawks; owls; trogons; kingfishers; woodpeckers; falcons; songbirds (perching birds).

²Nightjars and allies; swifts; some flycatchers.

³Avocets; oystercatchers; plovers; and sandpipers and allies.

⁴Auks, murres and puffins; gulls, terns and skimmers; tropicbirds; albatrosses; shearwaters and petrels; storm-petrels; frigatebirds; and boobies.

⁵Ducks; grebes; rails, gallinules and coots; limpkins; cranes; loons; storks; cormorants; pelicans; and herons and egrets.



Flammulated Owl, Alan Schmierer/CC0 1.0

Table 5.

Birds of Conservation Concern 2021 designated within BCRs 1, 2, 3, 4 and MBCRs 13, 14, 15. See Table 2 for descriptions of BCRs and MBCRs, Scientific names of species, subspecies and populations are provided in Appendix 1. Breeding (X) and nonbreeding (nb) status are indicated for each BCR or MBCR; breeding BCRs may also support passage or wintering birds.

Taxon Common Name	BCR/MBCR						
	1	2	3	4	M13	M14	M15
Black Oystercatcher	X	X					
American Golden-Plover		X	X	X			
Bristle-thighed Curlew		X		X			
Bar-tailed Godwit		X	X				
Hudsonian Godwit		X		X			
Marbled Godwit		X					
Black Turnstone		X					
Red Knot (Pacific)		X	X				
Dunlin (Northern Alaska)		nb	X				
Rock Sandpiper (Pribilof)	X	nb		nb			
Buff-breasted Sandpiper			X				
Pectoral Sandpiper			X				
Short-billed Dowitcher		X		X			
Solitary Sandpiper (Western)				X			
Wandering Tattler		X	X	X			
Lesser Yellowlegs				X			
Marbled Murrelet (Alaska)	X	X		X		nb	nb
Kittlitz's Murrelet	X	X	X			nb	nb
Ancient Murrelet	X					nb	nb
Whiskered Auklet	X					nb	
Red-legged Kittiwake	X					nb	nb
Ivory Gull					nb	nb	
Ross's Gull					nb		
Aleutian Tern	X	X		X			
Yellow-billed Loon	nb	X	X				nb
Laysan Albatross							nb
Black-footed Albatross						nb	nb
Murphy's Petrel						nb	nb
Mottled Petrel						nb	nb
Buller's Shearwater							nb
Pink-footed Shearwater							nb
Red-faced Cormorant	X	X					
Snowy Owl	X	X	X				
Short-eared Owl	X	X	X	X			
Olive-sided Flycatcher		X		X			
Gray-headed Chickadee (Alaska)			X	X			
McKay's Bunting	X						
Totals	13	20	12	13	2	9	11

Table 6.

Birds of Conservation Concern 2021 designated within BCRs 5, 10, 15, 32 and MBCR 17. See Table 2 for descriptions of BCRs and MBCRs. Scientific names of species, subspecies and populations are provided in Appendix 1. Breeding (X) and nonbreeding (nb) status are indicated for each BCR or MBCR; breeding BCRs may also support passage or wintering birds.

Taxon Common Name	BCR/MBCR				
	5	10	15	32	M17
Western Grebe	X	X	X	X	
Clark's Grebe	X	X	X	X	
Black Swift	X	X	X	X	
Vaux's Swift	X				
Calliope Hummingbird		X	X		
Rufous Hummingbird	X	X			
Allen's Hummingbird	X			X	
Broad-tailed Hummingbird		X			
Yellow Rail		X		nb	
Black Oystercatcher	X			X	
Mountain Plover		X		nb	
Snowy Plover (Interior/Gulf Coast)				X	
Marbled Godwit	nb			nb	
Red Knot (Pacific)	nb			nb	
Rock Sandpiper (Pribilof)	nb				
Short-billed Dowitcher	X			nb	
Lesser Yellowlegs	nb	nb			
Willet	nb	X	X	nb	
Marbled Murrelet (Alaska)	X				
Kittlitz's Murrelet	X				
Scripps's Murrelet				X	nb
Guadalupe Murrelet					nb
Craveri's Murrelet					nb
Ancient Murrelet	X				
Cassin's Auklet	X				
Tufted Puffin	X				nb
Franklin's Gull		X			
Heermann's Gull				X	
Western Gull	X			X	
California Gull	X	X	X	X	
Aleutian Tern	X				
Gull-billed Tern				X	
Black Tern		X		X	
Elegant Tern				X	
Black Skimmer				X	
Laysan Albatross					nb
Black-footed Albatross					nb
Ashy Storm-Petrel				X	nb
Black Storm-Petrel				X	nb
Murphy's Petrel					nb
Cook's Petrel					nb

Taxon Common Name	BCR/MBCR				
	5	10	15	32	M17
Buller's Shearwater					nb
Pink-footed Shearwater					nb
Black-vented Shearwater					nb
Brandt's Cormorant	X			X	
Red-faced Cormorant	X				
Northern Harrier				X	
Flammulated Owl	X	X	X	X	
Western Screech-Owl (Northern Pacific)	X			X	
Burrowing Owl (Western)				X	
Spotted Owl (California)			X	X	
Long-eared Owl		X	X	X	
Short-eared Owl				X	
Lewis's Woodpecker		X	X		
Williamson's Sapsucker (Rocky Mountain)		X			
Nuttall's Woodpecker				X	
White-headed Woodpecker (California)				X	
Olive-sided Flycatcher	X	X	X	X	
Pinyon Jay		X	X	X	
Island Scrub-Jay				X	
Yellow-billed Magpie				X	
Chestnut-backed Chickadee (Northern)	X				
Oak Titmouse	X		X	X	
White-breasted Nuthatch (Slender-billed)	X				
American Dipper			X		
Wrentit	X		X	X	
Varied Thrush (Pacific)	X				
California Thrasher			X	X	
LeConte's Thrasher				X	
Evening Grosbeak	X	X	X		
Black Rosy-Finch		X			
Cassin's Finch	X	X	X	X	
Lawrence's Goldfinch			X	X	
Thick-billed Longspur		X			
Black-chinned Sparrow				X	
Vesper Sparrow (Oregon)	X				
Savannah Sparrow (Belding's)				X	
Song Sparrow (Alameda/Samuels)				X	
Song Sparrow (Channel Island)				X	
Bobolink		X			
Bullock's Oriole				X	
Tricolored Blackbird				X	
Common Yellowthroat (San Francisco)				X	
Black-throated Gray Warbler			X		
Hermit Warbler			X		
Totals	34	24	21	49	13

Table 7.

Birds of Conservation Concern 2021 designated within BCRs 9, 16, 33, 34, 35 and 36. See Table 2 for descriptions of BCRs. Scientific names of species, subspecies and populations are provided in Appendix 1. Breeding (X) and nonbreeding (nb) status are indicated for each BCR; breeding BCRs may also support passage or wintering birds.

Taxon Common Name	BCR/MBCR					
	9	16	33	34	35	36
Western Grebe	X	X	X	X		
Clark's Grebe	X	X	X		X	
Common Nighthawk (Henry's)					X	
Mexican Whip-poor-will				X	X	
Black Swift	X	X				
Chimney Swift						X
Lucifer Hummingbird					X	
Costa's Hummingbird			X			
Calliope Hummingbird	X					
Rufous Hummingbird	X					
Broad-tailed Hummingbird	X	X		X	X	
King Rail						X
Yellow Rail	X					
American Avocet	X		X			
American Golden-Plover						nb
Wilson's Plover						X
Mountain Plover		X	nb		nb	nb
Snowy Plover (Interior/Gulf Coast)	X	X	X		X	X
Long-billed Curlew					nb	nb
Marbled Godwit	nb		nb			
Red Knot (Pacific)	nb					
Buff-breasted Sandpiper						nb
Pectoral Sandpiper	nb	nb				nb
Lesser Yellowlegs	nb	nb				nb
Willet	X		nb			
Franklin's Gull	X					
Yellow-footed Gull			nb			
California Gull	X	X				
Gull-billed Tern			X			X
Black Tern	X					
Forster's Tern	X					
Black Skimmer			X			
American White Pelican	X					
Northern Harrier	X					
Harris's Hawk						X
Ferruginous Hawk					X	
Flammulated Owl	X	X		X	X	
Whiskered Screech-Owl				X		
Burrowing Owl (Western)			X		X	
Long-eared Owl	X	X	X	X		
Short-eared Owl	X	X				

Taxon Common Name	BCR/MBCR					
	9	16	33	34	35	36
Elegant Trogon				X		
Lewis's Woodpecker	X	X		X		
Gila Woodpecker			X			
Arizona Woodpecker				X		
Gilded Flicker			X	X		
Olive-sided Flycatcher	X	X		X		
Cordilleran Flycatcher				X		
Black-capped Vireo					X	
Plumbeous Vireo				X		
Pinyon Jay	X	X	X	X	X	
Woodhouse's Scrub-Jay (Woodhouse's)					X	
Clark's Nutcracker		X				
Chihuahuan Raven						X
Mexican Chickadee				X		
Verdin (Southwest)			X			
Cactus Wren (Speckled)					X	
Curve-billed Thrasher (Palmer's))			X			
Curve-billed Thrasher (Brownsville)						X
Bendire's Thrasher	X	X	X	X	X	
California Thrasher			X			
LeConte's Thrasher			X			
Sage Thrasher	X					
Phainopepla (Southwest)				X		
Sprague's Pipit				nb	nb	nb
Evening Grosbeak	X	X		X	X	
Black Rosy-Finch	X	X				
Brown-capped Rosy-Finch		X				
Cassin's Finch	X	X				
Cassia Crossbill	X					
Lawrence's Goldfinch			X			
Chestnut-collared Longspur				nb	nb	nb
Thick-billed Longspur					nb	
Rufous-winged Sparrow			X	X		
Cassin's Sparrow					X	
Black-chinned Sparrow		X	X	X	X	
Baird's Sparrow				nb	nb	
Yellow-headed Blackbird		X				
Bobolink	X					
Eastern Meadowlark					X	X
Orchard Oriole						X
Scott's Oriole				X	X	
Tricolored Blackbird			X			
Colima Warbler					X	
Virginia's Warbler	X	X		X	X	
Grace's Warbler		X	X	X	X	

Taxon Common Name	BCR/MBCR					
	9	16	33	34	35	36
Black-throated Gray Warbler				X		
Red-faced Warbler				X		
Pyrrhuloxia			X	X	X	X
Varied Bunting				X	X	
Painted Bunting						X
Totals	34	25	27	30	30	20

Table 8.

Birds of Conservation Concern 2021 designated within BCRs 11, 17, 18, 19, 20, 21, 37 and MBCR 20. See Table 2 for descriptions of BCRs and MBCRs. Scientific names of species, subspecies and populations are provided in Appendix 1. Breeding (X) and nonbreeding (nb) status are indicated for each BCR/MBCR; breeding BCRs may also support passage or wintering birds.

Taxon Common Name	BCR/MBCR							
	11	17	18	19	20	21	37	M20
Western Grebe	X	X		X				
Clark's Grebe	X		X					
Black-billed Cuckoo	X	X		X				
Eastern Whip-poor-will	X							
Chimney Swift	X		X	X	X	X	X	
Broad-tailed Hummingbird			X					
King Rail				X			X	
Yellow Rail	X							nb
American Oystercatcher								X
American Golden-Plover	nb			nb	nb	nb	nb	nb
Wilson's Plover								X
Mountain Plover	X	X	X	nb	nb	nb	nb	nb
Snowy Plover (Interior/Gulf Coast)			X	X				X
Whimbrel (Atlantic)			nb	nb				nb
Long-billed Curlew	X		X		nb	nb	nb	nb
Hudsonian Godwit	nb		nb	nb				nb
Marbled Godwit	X	X						nb
Ruddy Turnstone (Atlantic)	nb							nb
Red Knot (Pacific)								nb
Dunlin (Hudson Bay)	nb							nb
Buff-breasted Sandpiper	nb		nb	nb	nb	nb	nb	nb
Pectoral Sandpiper	nb		nb	nb	nb	nb	nb	nb
Short-billed Dowitcher	nb							nb
Lesser Yellowlegs	nb	nb	nb	nb	nb	nb	nb	nb
Willet	X	X		X				X
Franklin's Gull	X	X						
California Gull	X	X						
Least Tern (Atlantic/Interior)				X		X	X	
Gull-billed Tern								X
Black Tern	X	X		X				
Forster's Tern								X

Taxon Common Name	BCR/MBCR							
	11	17	18	19	20	21	37	M20
Sandwich Tern							X	
Black Skimmer							X	
Band-rumped Storm-Petrel (Atlantic)								nb
Black-capped Petrel								nb
Cory's Shearwater								nb
Audubon's Shearwater								nb
Magnificent Frigatebird								nb
Little Blue Heron						X		
Reddish Egret							X	
Swallow-tailed Kite							X	
Northern Harrier	X	X	X					
Ferruginous Hawk		X	X					
Burrowing Owl (Western)		X		X				
Long-eared Owl	X	X	X	X				
Short-eared Owl	X	X	nb	nb				
Lewis's Woodpecker		X	X					
Red-headed Woodpecker	X	X	X	X		X	X	
Prairie Falcon		X						
Loggerhead Shrike (Eastern)						X	X	
Black-capped Vireo				X	X			
Pinyon Jay		X	X					
American Dipper		X						
Sprague's Pipit	X	X	nb	nb		nb	nb	
Chestnut-collared Longspur	X	X	X	nb	nb			
Thick-billed Longspur	X	X	X	nb	nb			
Grasshopper Sparrow (Northern)	X	X	X		X			
Lark Bunting		X		X				
Field Sparrow					X			
LeConte's Sparrow	X							nb
Seaside Sparrow (Atlantic/Gulf)							X	
Baird's Sparrow	X	X						
Henslow's Sparrow	X					X	X	
Rufous-crowned Sparrow (Rock)					X			
Bobolink	X	X		X				
Eastern Meadowlark					X			
Golden-winged Warbler	X							
Prothonotary Warbler						X	X	
Kentucky Warbler						X		
Pyrrhuloxia			X	X	X		X	
Painted Bunting					X		X	
Dicksissel							X	
Totals	33	26	22	27	16	15	36	5

Table 9.

Birds of Conservation Concern 2021 designated within BCRs 12, 13, 22, 23, 24, 25, 26, 28 and 29. See Table 2 for descriptions of BCRs. Scientific names of species, subspecies and populations are provided in Appendix 1. Breeding (X) and nonbreeding (nb) status are indicated for each BCR; breeding BCRs may also support passage or wintering birds.

Taxon Common Name	BCR/MBCR								
	12	13	22	23	24	25	26	28	29
Western Grebe				X					
Yellow-billed Cuckoo (Eastern)								X	
Black-billed Cuckoo	X	X	X	X	X			X	X
Common Nighthawk (Lesser)								X	
Chuck-will's Widow						X		X	X
Eastern Whip-poor-will	X	X	X	X	X	X	X	X	X
Chimney Swift	X	X	X	X	X	X	X	X	X
King Rail			X	X	X	X	X		X
Yellow Rail	X			X		nb	nb		
American Golden-Plover		nb	nb	nb		nb	nb		
Upland Sandpiper		X	X	X					
Whimbrel (Atlantic)	nb								
Hudsonian Godwit			nb						
Marbled Godwit				X					
Ruddy Turnstone (Atlantic)	nb	nb	nb	nb					
Dunlin (Hudson Bay)	nb	nb	nb	nb					
Buff-breasted Sandpiper		nb	nb	nb					
Pectoral Sandpiper	nb	nb	nb	nb		nb	nb		
Semipalmated Sandpiper (Eastern/Central)	nb	nb	nb	nb	nb		nb		
Short-billed Dowitcher		nb	nb	nb					
Lesser Yellowlegs	nb	nb	nb	nb	nb	nb	nb		
Least Tern (Atlantic/Interior)					X	X	X		
Black Tern	X			X					
Common Tern	X								
Little Blue Heron							X		
Swallow-tailed Kite						X	X		
Long-eared Owl	X	X		X					
Short-eared Owl		nb	nb	nb	nb				nb
Northern Saw-whet Owl								X	
Belted Kingfisher		X							
Red-headed Woodpecker		X	X	X	X	X	X	X	X
American Kestrel (Southeast)						X			
Olive-sided Flycatcher	X								
Loggerhead Shrike (Eastern)			X						
Black-capped Chickadee (Appalachian)								X	
Brown-headed Nuthatch					X	X			
Bewick's Wren (Eastern)					X	X			
Veery (Eastern)	X								
Bicknell's Thrush								X	

Taxon Common Name	BCR/MBCR								
	12	13	22	23	24	25	26	28	29
Wood Thrush	X	X	X	X	X	X	X	X	X
Sprague's Pipit						nb			
Evening Grosbeak	X	X							
Bachman's Sparrow					X	X			
Grasshopper Sparrow (Northern)			X	X	X				X
Field Sparrow					X				
LeConte's Sparrow	X			X	nb	nb	nb		
Henslow's Sparrow			X	X	X	nb	nb	X	
Bobolink	X	X	X	X	X			X	
Eastern Meadowlark		X							
Rusty Blackbird			nb	nb	nb		nb	nb	nb
Golden-winged Warbler	X	X		X				X	
Blue-winged Warbler		X							
Prothonotary Warbler			X		X	X	X	X	X
Connecticut Warbler	X								
Kentucky Warbler			X		X	X	X	X	X
Kirtland's Warbler	X			X					
Cerulean Warbler	X	X	X	X	X		X	X	X
Prairie Warbler		X			X	X	X	X	X
Canada Warbler	X	X		X				X	
Rose-breasted Grosbeak		X							
Totals	24	26	25	30	23	22	20	20	14



Bicknell's Thrush, Alan Schmierer/CC0 1.0

Table 10.

Birds of Conservation Concern 2021 designated within BCRs 14, 27, 30, 31 and MBCR 18, 19. See Table 2 for descriptions of BCRs and MBCRs. Scientific names of species, subspecies and populations are provided in Appendix 1. Breeding (X) and nonbreeding (nb) status are indicated for each BCR/MBCR; breeding BCRs may also support passage or wintering birds.

Taxon Common Name	BCR/MBCR					
	14	27	30	31	M18	M19
White-crowned Pigeon				X		
Mangrove Cuckoo				X		
Black-billed Cuckoo	X		X			
Chuck-will's Widow		X				
Eastern Whip-poor-will	X	X	X			
Chimney Swift	X	X	X	X		
King Rail		X	X	X		
Yellow Rail		nb		nb		
American Oystercatcher		X	X	X		
Wilson's Plover		X		X		
Snowy Plover (Interior/Gulf Coast)		X		X		
Whimbrel (Atlantic)	nb	nb	nb	nb		
Hudsonian Godwit	nb		nb			
Marbled Godwit		nb				
Ruddy Turnstone (Atlantic)		nb	nb	nb		
Dunlin (Hudson Bay)		nb	nb	nb		
Purple Sandpiper	nb	nb	nb			
Pectoral Sandpiper		nb	nb	nb		
Semipalmated Sandpiper (Eastern/Central)	nb	nb	nb	nb		
Short-billed Dowitcher		nb	nb	nb		
Lesser Yellowlegs	nb	nb	nb	nb		
Willet	X	X	X	X		
Least Tern (Atlantic/Interior)		X	X	X		
Gull-billed Tern		X	X	X		
Black Skimmer		X	X	X		
Band-rumped Storm-Petrel (Atlantic)					nb	nb
Black-capped Petrel						nb
Fea's Petrel					nb	nb
Cory's Shearwater					nb	nb
Manx Shearwater					nb	nb
Audubon's Shearwater					nb	nb
Magnificent Frigatebird				X		nb
Great Blue Heron (Great White)				X		
Reddish Egret				X		
Swallow-tailed Kite		X		X		
Burrowing Owl (Florida)				X		
Long-eared Owl	X		X			
Short-eared Owl	nb		nb			
Red-headed Woodpecker		X	X	X		

Taxon Common Name	BCR/MBCR					
	14	27	30	31	M18	M19
American Kestrel (Southeast)		X		X		
Olive-sided Flycatcher	X					
Brown-headed Nuthatch		X				
Marsh Wren (Worthington's)				X		
Veery (Eastern)	X					
Bicknell's Thrush	X					
Wood Thrush	X	X	X			
Evening Grosbeak	X					
Bachman's Sparrow		X		X		
Grasshopper Sparrow (Northern)		X	X			
LeConte's Sparrow		nb				
Seaside Sparrow (Atlantic/Gulf)		X	X	X		
Saltmarsh Sparrow		nb	X	nb		
Henslow's Sparrow		nb		nb		
Yellow-breasted Chat (Eastern)			X			
Bobolink	X		X			
Rusty Blackbird		nb	nb			
Blue-winged Warbler			X			
Prothonotary Warbler		X	X			
Kentucky Warbler		X	X			
Cape May Warbler	X					
Cerulean Warbler		X	X			
Bay-breasted Warbler	X					
Prairie Warbler	X	X	X	X		
Black-throated Green Warbler (Wayne's)		X				
Canada Warbler	X		X			
Scarlet Tanager			X			
Rose-breasted Grosbeak	X					
Painted Bunting		X		X		
Totals	22	39	35	32	5	7



Yellow-billed Loon, Bob Wick/BLM

Appendices

Appendix 1.

Common and scientific names of species, subspecies, and populations designated as Birds of Conservation Concern 2021, listed as threatened or endangered under the USA Endangered Species Act, considered as extinct in the wild, or included as non-migratory birds on the Watch Lists of the State of the Birds (Rosenberg et al. 2014) or in the Avian Conservation Assessment Database (Partners in Flight 2019). Taxonomic sequence and nomenclature follow the American Ornithologists' Union Check-list of North American Birds, 7th Edition (1998), through the 60th supplement (2019). Subspecies and population nomenclature follow Andres et al. (2012) and Clements et al. (2019); nomenclature for Pacific island species follows Clements et al. (2019).

Common Name	Scientific Name	BCC 2021 ¹			ESA/WL ²	
		CO	PV	HP	List	Area
West Indian Whistling-Duck	<i>Dendrocygna arborea</i>		P			
Emperor Goose	<i>Anser canagicus</i>				W	C
Brant	<i>Branta bernicla</i>				W	C
Nēnē	<i>Branta sandvicensis</i>				E	H
Cinnamon Teal	<i>Spatula cyanoptera</i>				W	C
Pacific Black Duck (Palau)	<i>Anas superciliosa pelewensis</i>			H		
Laysan Duck	<i>Anas laysanensis</i>				E	H
Hawaiian Duck/Koloa	<i>Anas wyvilliana</i>				E	H
Mariana Mallard	<i>Anas oustaleti</i> (?)				X	H
Mottled Duck	<i>Anas fulvigula</i>				W	C
White-cheeked Pintail (West Indies)	<i>Anas bahamensis bahamensis</i>		P			
Steller's Eider	<i>Polysticta stelleri</i>				T	C
Spectacled Eider	<i>Somateria fischeri</i>				T	C
Labrador Duck	<i>Camptorhynchus labradorius</i>				X	C
Masked Duck	<i>Nomonyx dominicus</i>		P			
Ruddy Duck (West Indies)	<i>Oxyura jamaicensis</i> (West Indies)		P			
Micronesian Scrubfowl (Mariana)	<i>Megapodius laperouse laperouse</i>				E	H
Mountain Quail	<i>Oreortyx pictus</i>				W	C
Northern Bobwhite (Masked)	<i>Colinus virginianus ridgwayi</i>				E	C
Greater Sage-Grouse	<i>Centrocercus urophasianus</i>				W	C
Gunnison Sage-Grouse	<i>Centrocercus minimus</i>				T	C
Greater Prairie-Chicken	<i>Tympanuchus cupido pinnatus</i>				W	C
Greater Prairie-Chicken (Heath Hen)	<i>Tympanuchus cupido cupido</i>				X	C
Attwater's (Greater) Prairie-Chicken	<i>Tympanuchus cupido attwateri</i>				E	C
Lesser Prairie-Chicken	<i>Tympanuchus pallidicinctus</i>				W	C
Western Grebe	<i>Aechmophorus occidentalis</i>	C				
Clark's Grebe	<i>Aechmophorus clarkii</i>	C				
White-crowned Pigeon	<i>Patagioenas leucocephala</i>	C	P			

Common Name	Scientific Name	BCC 2021 ¹			ESA/WL ²	
		CO	PV	HP	List	Area
Plain Pigeon (Puerto Rican)	<i>Patagioenas inornata wetmorei</i>				E	P
Passenger Pigeon	<i>Ectopistes migratorius</i>				X	C
Shy (Friendly) Ground Dove	<i>Alopecoenas stairi</i>				E	H
White-throated Ground Dove	<i>Alopecoenas xanthonurus</i>				H	
Bridled Quail-Dove	<i>Geotrygon mystacea</i>		P			
Many-colored Fruit-Dove	<i>Ptilinopus perousii perousii</i>				H	
Mariana Fruit-Dove	<i>Ptilinopus roseicapilla</i>				H	
Pacific Imperial-Pigeon (Pacific)	<i>Ducula pacifica pacifica</i>				H	
Yellow-billed Cuckoo (Western)	<i>Coccyzus americanus</i> (Western)				T	C
Yellow-billed Cuckoo (Eastern)	<i>Coccyzus americanus</i> (Eastern)	R				
Mangrove Cuckoo	<i>Coccyzus minor</i>	R				
Black-billed Cuckoo	<i>Coccyzus erythrophthalmus</i>	C				
Common Nighthawk (Lesser)	<i>Chordeiles minor minor</i>	R				
Common Nighthawk (Henry's)	<i>Chordeiles minor henryi</i>	R				
Chuck-will's Widow	<i>Antrostomus carolinensis</i>	R				
Eastern Whip-poor-will	<i>Antrostomus vociferus</i>	C				
Mexican Whip-poor-will	<i>Antrostomus arizonae</i>	C				
Puerto Rican Nightjar	<i>Antrostomus noctitherus</i>				E	P
Black Swift	<i>Cypseloides niger</i>	C	P			
Chimney Swift	<i>Chaetura pelagica</i>	C				
Vaux's Swift (Vaux's)	<i>Chaetura vauxi vauxi</i>	R				
Mariana Swiftlet	<i>Aerodramus bartschi</i>				E	H
Antillean Mango (Puerto Rican)	<i>Anthracothorax dominicus aurulentus</i>		P			
Lucifer Hummingbird	<i>Calothorax lucifer</i>	C				
Costa's Hummingbird	<i>Calypte costae</i>	R				
Calliope Hummingbird	<i>Selasphorus calliope</i>	C				
Rufous Hummingbird	<i>Selasphorus rufus</i>	C				
Allen's Hummingbird	<i>Selasphorus sasin</i>	C				
Broad-tailed Hummingbird	<i>Selasphorus platycercus</i>	C				
Antillean Cave-Rail	<i>Nesotrochis debooyi</i>				X	P
Ridgway's Rail (California)	<i>Rallus obsoletus obsoletus</i>				E	C
Ridgway's Rail (Light-footed)	<i>Rallus obsoletus levipes</i>				E	C
Ridgway's Rail (Yuma)	<i>Rallus obsoletus yumanensis</i>				E	C
King Rail	<i>Rallus elegans</i>	C				
Guam Rail	<i>Gallirallus owstoni</i>				E	H
Wake Island Rail	<i>Gallirallus wakensis</i>				X	H
Common Gallinule (Hawaiian)	<i>Gallinula galeta sandvicensis</i>				E	H
Common Moorhen (Mariana)	<i>Gallinula chloropus guami</i>				E	H
Hawaiian Coot	<i>Fulica alai</i>				E	H
American Coot (Caribbean)	<i>Fulica americana americana</i> (Caribbean)		P			
Australasian (Purple) Swamphen (Samoan)	<i>Porphyrio (porphyrio) melanotus samoensis</i>				H	
Laysan Rail	<i>Zapornia palmeri</i>				X	H

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Hawaiian Rail	<i>Zapornia sandwichensis</i>				X	H
Spotless Crake (Tongan)	<i>Zapornia tabuensis tabuensis</i>				H	
Yellow Rail	<i>Coturnicops noveboracensis</i>	C				
Yellow-breasted Crake (Henderson's)	<i>Hapalocrex flaviventer hendersoni</i>		P			
Black Rail	<i>Laterallus jamaicensis jamaicensis/</i> <i>coturniculus</i>				E	C,P
Limpkin (Puerto Rican/Hispaniolan)	<i>Aramus guarana elucus</i>		P			
Sandhill Crane (Mississippi)	<i>Antigone canadensis pulla</i>				E	C
Whooping Crane	<i>Grus americana</i>				E	C
Black-necked Stilt (Hawaiian)	<i>Himantopus mexicanus knudseni</i>				E	H
American Avocet	<i>Recurvirostra americana</i>	R				
American Oystercatcher	<i>Haematopus palliatus</i>	C	P			
Black Oystercatcher	<i>Haematopus bachmani</i>	C				
American Golden-Plover	<i>Pluvialis dominica</i>	C				
Piping Plover (Atlantic)	<i>Charadrius melodus melodus</i>				T	C
Piping Plover (Great Lakes)	<i>C. m. circumcinctus</i> (Great Lakes)				E	C
Piping Plover (Great Plains)	<i>C. m. circumcinctus</i> (Great Plains)				T	C
Wilson's Plover	<i>Charadrius wilsonia</i>	C	P			
Mountain Plover	<i>Charadrius montanus</i>	C				
Snowy Plover (Pacific Coast)	<i>Charadrius nivosus nivosus</i> (Pacific Coast)				T	C
Snowy Plover (Interior/Gulf Coast)	<i>C. n. nivosus</i> (Interior/Gulf Coast)	C				
Snowy Plover (Caribbean)	<i>C. n. tenuirostris</i>		P			
Upland Sandpiper	<i>Bartramia longicauda</i>	R				
Bristle-thighed Curlew	<i>Numenius tahitiensis</i>	C		H		
Whimbrel (Atlantic)	<i>Numenius phaeopus hudsonicus</i> (Atlantic)	R				
Eskimo Curlew	<i>Numenius borealis</i>				E	C
Long-billed Curlew	<i>Numenius americanus</i>	R				
Bar-tailed Godwit	<i>Limosa lapponica</i>	C				
Hudsonian Godwit	<i>Limosa haemastica</i>	C				
Marbled Godwit	<i>Limosa fedoa</i>	C				
Ruddy Turnstone (Atlantic)	<i>Arenaria interpres morinella</i>	R				
Black Turnstone	<i>Arenaria melanocephala</i>	C				
Red Knot (Atlantic)	<i>Calidris canutus rufa</i>				T	C
Red Knot (Pacific)	<i>Calidris canutus roselaari</i>	C				
Dunlin (Northern Alaska)	<i>Calidris alpina arctica</i>	R				
Dunlin (Hudson Bay)	<i>Calidris alpina hudsonia</i>	R				
Rock Sandpiper (Pribilof)	<i>Calidris ptilocnemis ptilocnemis</i>	R				
Purple Sandpiper	<i>Calidris maritima</i>	C				
Buff-breasted Sandpiper	<i>Calidris subruficollis</i>	C				
Pectoral Sandpiper	<i>Calidris melanotos</i>	C				
Semipalmated Sandpiper (Eastern/ Central)	<i>Calidris pusilla</i> (Eastern/Central)	R	P			
Short-billed Dowitcher	<i>Limnodromus griseus</i>	C				

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American Woodcock	<i>Scolopax minor</i>				W	C
Solitary Sandpiper (Western)	<i>Tringa solitaria cinnamomea</i>	R				
Wandering Tattler	<i>Tringa incana</i>	C		H		
Lesser Yellowlegs	<i>Tringa flavipes</i>	C	P			
Willet	<i>Tringa semipalmata</i>	C	P			
Great Auk	<i>Pinguinus impennis</i>				X	C
Marbled Murrelet (CA/OR/WA)	<i>Brachyramphus marmoratus</i> (California/ Oregon/ Washington)				T	C
Marbled Murrelet (Alaska)	<i>Brachyramphus marmoratus</i> (Alaska)	C				
Kittlitz's Murrelet	<i>Brachyramphus brevirostris</i>	C				
Scripps's Murrelet	<i>Synthliboramphus scrippsi</i>	C				
Guadalupe Murrelet	<i>Synthliboramphus hypoleucus</i>	C				
Craveri's Murrelet	<i>Synthliboramphus craveri</i>	C				
Ancient Murrelet	<i>Synthliboramphus antiquus</i>	C				
Cassin's Auklet	<i>Ptychoramphus aleuticus</i>	R				
Whiskered Auklet	<i>Aethia pygmaea</i>	C				
Tufted Puffin	<i>Fratercula cirrhata</i>	R				
Red-legged Kittiwake	<i>Rissa brevirostris</i>	C				
Ivory Gull	<i>Pagophila eburnea</i>	C				
Ross's Gull	<i>Rhodostethia rosea</i>	C				
Franklin's Gull	<i>Leucophaeus pipixcan</i>	C				
Heermann's Gull	<i>Larus heermanni</i>	C				
Western Gull	<i>Larus occidentalis</i>	C				
Yellow-footed Gull	<i>Larus livens</i>	C				
California Gull	<i>Larus californicus</i>	C				
Black Noddy (Hawaiian)	<i>Anous minutus melanogenys</i>			H		
Blue-gray Noddy (Hawaiian)	<i>Anous cerulea saxatilis</i>			H		
Gray-backed Tern	<i>Onychoprion lunata</i>			H		
Aleutian Tern	<i>Onychoprion aleuticus</i>	C				
Least Tern (California)	<i>Sternula antillarum brownii</i>				E	C
Least Tern (Atlantic/Interior)	<i>Sternula antillarum antillarum/</i> <i>athalassos</i>	C	P			
Gull-billed Tern	<i>Gelochelidon nilotica</i>	R				
Black Tern	<i>Chlidonias niger surinamensis</i>	C				
Roseate Tern	<i>Sterna dougallii dougallii</i>				E/T	C,P
Common Tern	<i>Sterna hirundo</i>	R				
Forster's Tern	<i>Sterna forsteri</i>	R				
Sandwich Tern	<i>Thalasseus sandvicensis</i>	R				
Elegant Tern	<i>Thalasseus elegans</i>	C				
Black Skimmer	<i>Rynchops niger</i>	C				
White-tailed Tropicbird (Atlantic)	<i>Phaethon lepturus catesbyi</i>		P			
Red-billed Tropicbird (Caribbean)	<i>Phaethon aethereus mesonauta</i> (Caribbean)		P			

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Red-tailed Tropicbird (Black-billed)	<i>Phaethon rubricauda melanorhynchos</i>			H		
Yellow-billed Loon	<i>Gavia adamsii</i>	C				
Laysan Albatross	<i>Phoebastria immutabilis</i>	C		H		
Black-footed Albatross	<i>Phoebastria nigripes</i>	C		H		
Short-tailed Albatross	<i>Phoebastria albatrus</i>				E	C,H
Polynesian Storm-Petrel	<i>Nesofregetta fuliginosa</i>			H		
Ashy Storm-Petrel	<i>Hydrobates homochroa</i>	C				
Band-rumped Storm-Petrel (Pacific)	<i>Hydrobates castro (Pacific)</i>				E	H
Band-rumped Storm-Petrel (Atlantic)	<i>Hydrobates castro (Atlantic)</i>	C				
Black Storm-Petrel	<i>Hydrobates melania</i>	C				
Tristram's Storm-Petrel	<i>Hydrobates tristrami</i>			H		
Murphy's Petrel	<i>Pterodroma ultima</i>	C				
Mottled Petrel	<i>Pterodroma inexpectata</i>	C		H		
Bermuda Petrel	<i>Pterodroma cahow</i>				E	C
Black-capped Petrel	<i>Pterodroma hasitata</i>	C				
Hawaiian Petrel	<i>Pterodroma sandwichensis</i>				E	H
Bonin Petrel	<i>Pterodroma hypoleuca</i>			H		
Fea's Petrel	<i>Pterodroma feae</i>	C				
Cook's Petrel	<i>Pterodroma cookii</i>	C		H		
Tahiti Petrel	<i>Pseudobulweria rostrata</i>			H		
Bulwer's Petrel	<i>Bulweria bulwerii</i>			H		
Cory's Shearwater	<i>Calonectris diomedea</i>	C				
Buller's Shearwater	<i>Ardenna bulleri</i>	C		H		
Pink-footed Shearwater	<i>Ardenna creatopus</i>	C				
Christmas Shearwater	<i>Puffinus nativitatis</i>			H		
Manx Shearwater	<i>Puffinus puffinus</i>	C				
Newell's Shearwater	<i>Puffinus newelli</i>				T	H
Black-vented Shearwater	<i>Puffinus opisthomelas</i>	C				
Audubon's Shearwater	<i>Puffinus lherminieri</i>	C	P			
Wood Stork (Southeast USA)	<i>Mycteria americana (Southeast USA)</i>				T	C
Magnificent Frigatebird	<i>Fregata magnificens</i>	R	P			
Great Frigatebird (Central Pacific)	<i>Fregata minor palmerstoni</i>			H		
Masked Booby (Atlantic)	<i>Sula dactylatra dactylatra</i>		P			
Red-footed Booby (Atlantic)	<i>Sula sula sula</i>		P			
Brandt's Cormorant	<i>Phalacrocorax penicillatus</i>	C				
Red-faced Cormorant	<i>Phalacrocorax urile</i>	C				
American White Pelican	<i>Pelecanus erythrorhynchos</i>	R				
Brown Pelican (Caribbean)	<i>Pelecanus occidentalis occidentalis</i>		P			
Great Blue Heron (Great White)	<i>Ardea herodias occidentalis</i>	R				
Little Blue Heron	<i>Egretta caerulea</i>	R				
Reddish Egret	<i>Egretta rufescens</i>	C				
California Condor	<i>Gymnogyps californianus</i>				E	C

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Swallow-tailed Kite	<i>Elanoides forficatus</i>	C				
Northern Harrier	<i>Circus hudsonius</i>	R				
Sharp-shinned Hawk (Puerto Rican)	<i>Accipiter striatus venator</i>				E	P
Snail Kite (Everglade)	<i>Rostrhamus sociabilis plumbeus</i>				E	C
Harris's Hawk	<i>Parabuteo unicinctus harrisi</i>	R				
Broad-winged Hawk (Puerto Rican)	<i>Buteo platypterus brunnescens</i>				E	P
'lo	<i>Buteo solitarius</i>				H	
Ferruginous Hawk	<i>Buteo regalis</i>	R				
Flammulated Owl	<i>Psilosops flammeolus</i>	C				
Puerto Rican Screech-Owl (Virgin Islands)	<i>Megascops nudipes newtoni</i>		P			
Whiskered Screech-Owl	<i>Megascops trichopsis</i>	C				
Western Screech-Owl (Northern Pacific)	<i>Megascops kennicottii kennicottii/ cardonensis</i>	R				
Snowy Owl	<i>Bubo scandiacus</i>	C				
Burrowing Owl (Western)	<i>Athene cunicularia hypugaea</i>	R				
Burrowing Owl (Florida)	<i>Athene cunicularia floridana</i>	R				
Spotted Owl (California)	<i>Strix occidentalis occidentalis</i>	C				
Spotted Owl (Northern)	<i>Strix occidentalis caurina</i>				T	C
Spotted Owl (Mexican)	<i>Strix occidentalis lucida</i>				T	C
Long-eared Owl	<i>Asio otus</i>	C				
Short-eared Owl	<i>Asio flammeus flammeus</i>	C				
Pueo	<i>Asio flammeus sandwichensis</i>				H	
Northern Saw-whet Owl	<i>Aegolius acadicus</i>	R				
Elegant Trogon	<i>Trogon elegans</i>	C				
Guam Kingfisher	<i>Todiramphus cinnamominus</i>				E	H
Mariana Kingfisher	<i>Todiramphus albicilla</i>				H	
Belted Kingfisher	<i>Megaceryle alcyon</i>	R				
Lewis's Woodpecker	<i>Melanerpes lewis</i>	C				
Red-headed Woodpecker	<i>Melanerpes erythrocephalus</i>	C				
Gila Woodpecker	<i>Melanerpes uropygialis</i>	R				
Williamson's Sapsucker (Rocky Mountain)	<i>Sphyrapicus thyroideus nataliae</i>	R				
Nuttall's Woodpecker	<i>Drybates nuttallii</i>	R				
Red-cockaded Woodpecker	<i>Drybates borealis</i>				E	C
White-headed Woodpecker (California)	<i>Drybates albolarvatus gravirostris</i>	R				
Arizona Woodpecker	<i>Drybates arizonae</i>	C				
Gilded Flicker	<i>Colaptes chrysoides</i>	C				
Ivory-billed Woodpecker	<i>Campephilus principalis</i>				X	C
Crested Caracara (Audubon's)	<i>Caracara cheriway audubonii</i>				T	C
American Kestrel (Southeast)	<i>Falco sparverius paulus</i>	R				
Aplomado Falcon (Northern)	<i>Falco femoralis septentrionalis</i>				E	C
Prairie Falcon	<i>Falco mexicanus</i>	R				
Blue-crowned Lorikeet	<i>Vini australis</i>				W	H
Carolina Parakeet	<i>Conuropsis carolinensis</i>				X	C

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Green Parakeet	<i>Psittacara holochlorus</i>				W	C
Puerto Rican Parakeet	<i>Psittacara maugaei</i>				X	P
Thick-billed Parrot	<i>Rhynchopsitta pachyrhyncha</i>				E	C
Puerto Rican Parrot	<i>Amazona vittata</i>				E	P
Red-crowned Parrot	<i>Amazona viridigenalis</i>				W	C
Olive-sided Flycatcher	<i>Contopus cooperi</i>	C				
Willow Flycatcher (Southwestern)	<i>Empidonax traillii extimus</i>				E	C
Cordilleran Flycatcher	<i>Empidonax occidentalis</i>	R				
Micronesian Myzomela	<i>Myzomela rubratra saffordi</i>				W	H
Mao	<i>Gymnomyza samoensis</i>				E	H
Loggerhead Shrike (San Clemente)	<i>Lanius ludovicianus mearnsi</i>				E	C
Loggerhead Shrike (Eastern)	<i>Lanius ludovicianus excubitorides/migrans</i>	R				
Black-capped Vireo	<i>Vireo atricapilla</i>	C				
Puerto Rican Vireo	<i>Vireo latimeri</i>		P			
Bell's Vireo (Least)	<i>Vireo bellii pusillus</i>				E	C
Plumbeous Vireo	<i>Vireo plumbeus</i>	R				
Pinyon Jay	<i>Gymnorhinus cyanocephalus</i>	C				
Florida Scrub-Jay	<i>Aphelocoma coerulescens</i>				T	C
Island Scrub-Jay	<i>Aphelocoma insularis</i>	C				
Woodhouse's Scrub-Jay (Woodhouse's)	<i>Aphelocoma woodhouseii woodhouseii</i>	R				
Clark's Nutcracker	<i>Nucifraga columbiana</i>	R				
Yellow-billed Magpie	<i>Pica nuttalli</i>	C				
Mariana Crow	<i>Corvus kubaryi</i>				E	H
White-necked Crow	<i>Corvus leucognaphalus</i>				E	P
Hawaiian Crow/Alalā	<i>Corvus hawaiiensis</i>				E	H
Chihuahuan Raven	<i>Corvus cryptoleucus</i>	R				
Rufous Fantail (Guam)	<i>Rhipidura rufifrons uraniae</i>				X	H
Rufous Fantail (Saipan)	<i>Rhipidura rufifrons saipanensis</i>				W	H
Rufous Fantail (Rota)	<i>Rhipidura rufifrons mariae</i>				W	H
Hawai'i 'Elepaio	<i>Chasiempis sandwichensis</i>				W	H
Kaua'i 'Elepaio	<i>Chasiempis sclateri</i>				W	H
O'ahu 'Elepaio	<i>Chasiempis ibidis</i>				E	H
Fiji Shrikebill (Manua)	<i>Clytorhynchus vitiensis powelli</i>				W	H
Tinian Monarch	<i>Monarcha takatsukasae</i>				W	H
Guam Flycatcher	<i>Myiagra freycineti</i>				X	H
Horned Lark (Streaked)	<i>Eremophila alpestris strigata</i>				T	C
Black-capped Chickadee (Appalachian)	<i>Poecile atricapillus praticus</i>	R				
Mexican Chickadee	<i>Poecile sclateri</i>	C				
Chestnut-backed Chickadee (Northern)	<i>Poecile rufescens rufescens</i>	R				
Gray-headed Chickadee (Alaska)	<i>Poecile cinctus lathamii</i>	C				
Oak Titmouse	<i>Baeolophus inornatus</i>	C				

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Verdin (Southwest)	<i>Auriparus flaviceps acaciaram</i>	R				
White-breasted Nuthatch (Slender-billed)	<i>Sitta carolinensis aculeata</i>	R				
Brown-headed Nuthatch	<i>Sitta pusilla</i>	R				
Marsh Wren (Worthington's)	<i>Cistothorus palustris griseus</i>	R				
Bewick's Wren (Eastern)	<i>Thryomanes bewickii bewickii</i>	R				
Cactus Wren (Speckled)	<i>Campylorhynchus brunneicapillus guttatus</i>	R				
California Gnatcatcher (Coastal)	<i>Polioptila californica californica</i>				T	C
American Dipper	<i>Cinclus mexicanus</i>	R				
Wrentit	<i>Chamaea fasciata</i>	C				
Golden White-eye	<i>Cleptornis marchei</i>				W	H
Bridled White-eye (Guam)	<i>Zosterops conspicillatus conspicillatus</i>				X	H
Bridled White-eye (Saipan)	<i>Zosterops conspicillatus saypani</i>				W	H
Rota White-eye	<i>Zosterops rotensis</i>				E	H
Nightingale Reed Warbler (Guam)	<i>Acrocephalus luscinius</i>				X	H
Nightingale (Saipan) Reed Warbler	<i>Acrocephalus luscinius/hiwae</i>				E	H
Aguiguan Reed Warbler	<i>Acrocephalus nijoi</i>				X	H
Pagan Reed Warbler	<i>Acrocephalus yamashinae</i>				X	H
Millerbird (Nihoa)	<i>Acrocephalus familiaris kingi</i>				E	H
Kāma'o	<i>Myadestes myadestinus</i>				X	H
Āmaui	<i>Myadestes wahensis</i>				X	H
Oloma'o	<i>Myadestes lanaiensis rutha</i>				E	H
'Ōma'o	<i>Myadestes obscurus</i>			H		
Puaiohi	<i>Myadestes palmeri</i>				E	H
Veery (Eastern)	<i>Catharus fuscescens fuscescens</i>	R				
Bicknell's Thrush	<i>Catharus bicknelli</i>	C				
Wood Thrush	<i>Hylocichla mustelina</i>	C				
Varied Thrush (Pacific)	<i>Ixoreus naevius naevius</i>	R				
Curve-billed Thrasher (Brownsville)	<i>Toxostoma curvirostre oberholseri</i>	R				
Curve-billed Thrasher (Palmer's)	<i>Toxostoma curvirostre palmeri</i>	R				
Bendire's Thrasher	<i>Toxostoma bendirei</i>	C				
California Thrasher	<i>Toxostoma redivivum</i>	C				
LeConte's Thrasher	<i>Toxostoma lecontei</i>	C				
Sage Thrasher	<i>Oreoscoptes montanus</i>	R				
Polynesian Starling (Manua)	<i>Aplonis tabuensis manuae</i>				W	H
Polynesian Starling (Tutuila)	<i>Aplonis tabuensis tutuilae</i>				W	H
Samoa Starling	<i>Aplonis atrifusca</i>				W	H
Kaua'I Ō'Ō	<i>Moho braccatus</i>				X	H
O'ahu Ō'Ō	<i>Moho apicalis</i>				X	H
Bishop's Ō'Ō	<i>Moho bishopi</i>				X	H
Hawai'i Ō'Ō	<i>Moho nobilis</i>				X	H
Kioea	<i>Chaetoptila angustipluma</i>				X	H
Phainopepla (Southwest)	<i>Phainopepla nitens lepida</i>	R				

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Sprague's Pipit	Anthus spragueii	C				
Evening Grosbeak	Coccothraustes vespertinus	C				
Po`ouli	Melamprosops phaeosoma				X	H
'Akikiki	Oreomystis bairdi				E	H
O'ahu 'Alauahio	Paroreomyza maculata				E	H
Kākāwahie	Paroreomyza flammea				X	H
Maui 'Alauahio	Paroreomyza montana			H		
Palila	Loxioides bailleui				E	H
Laysan Finch	Telespyza cantans				E	H
Nihoa Finch	Telespyza ultima				E	H
Kona Grosbeak	Chloridops kona				X	H
Lesser Koa-Finch	Rhodacanthis flaviceps				X	H
Greater Koa-Finch	Rhodacanthis palmeri				X	H
'Ula-'ai-hawane	Ciridops anna				X	H
'Akohekohe	Palmeria dolei				E	H
Laysan Honeycreeper	Himatione fraithii				X	H
'Apapane	Himatione sanguinea			H		
'Tiwi	Drepanis coccinea				E	H
Hawai'i Mamo	Drepanis pacifica				X	H
Black Mamo	Drepanis funerea				X	H
`Ō`ū	Psittirostra psittacea				E	H
Lanai Hookbill	Dysmorodrepanis munroi				X	H
Maui Parrotbill	Pseudonestor xanthophrys				E	H
Kaua'i Nukupu'u	Hemignathus hanapepe				X	H
O'ahu Nukupu'u	Hemignathus lucidus				X	H
Maui Nukupu'u	Hemignathus affinis				X	H
'Akiapōlā'au	Hemignathus wilsoni				E	H
Lesser 'Akialoa	Akialoa obscura				X	H
Kaua'i 'Akialoa	Akialoa stejnegeri				X	H
O'ahu 'Akialoa	Akialoa ellisiana				X	H
Maui-nui 'Akialoa	Akialoa lanaiensis				X	H
'Anianiau	Magumma parva			H		
Hawai'i 'Amakihi	Chlorodrepanis virens			H		
O'ahu 'Amakihi	Chlorodrepanis flava			H		
Kaua'i 'Amakihi	Chlorodrepanis stejnegeri			H		
Greater 'Amakihi	Viridonia sagittirostris				X	H
Hawai'i Creeper	Loxops mana				E	H
'Akeke'e	Loxops caeruleirostris				E	H
O'ahu 'Akepa	Loxops wolstenholmei				X	H
Maui 'Akepa	Loxops ochraceus				X	H
Hawai'i 'Akepa	Loxops coccineus				E	H
Black Rosy-Finch	Leucosticte atrata	C				
Brown-capped Rosy-Finch	Leucosticte australis	C				
Cassin's Finch	Haemorhous cassinii	C				
Cassia Crossbill	Loxia sinesciuris	C				

Common Name	Scientific Name	BCC 2021 ¹			ESA/WL ²	
		CO	PV	HP	List	Area
Lawrence's Goldfinch	<i>Spinus lawrencei</i>	C				
Chestnut-collared Longspur	<i>Calcarius ornatus</i>	C				
Thick-billed Longspur	<i>Rhynchophanes mccownii</i>	C				
McKay's Bunting	<i>Plectrophenax hyperboreus</i>	C				
Rufous-winged Sparrow	<i>Peucaea carpalis</i>	C				
Cassin's Sparrow	<i>Peucaea cassinii</i>	R				
Bachman's Sparrow	<i>Peucaea aestivalis</i>	C				
Grasshopper Sparrow (Florida)	<i>Ammodramus savannarum flridanus</i>				E	C
Grasshopper Sparrow (Northern)	<i>Ammodramus savannarum perpallidus/pratensis</i>	R				
Lark Bunting	<i>Calamospiza melanocorys</i>	R				
Black-chinned Sparrow	<i>Spizella atrogularis</i>	C				
Field Sparrow	<i>Spizella pusilla</i>	R				
Bell's Sparrow (San Clemente)	<i>Artemisiospiza belli clementeae</i>				T	C
Vesper Sparrow (Oregon)	<i>Poocetes gramineus affinis</i>	R				
LeConte's Sparrow	<i>Ammodramus leconteii</i>	C				
Dusky Seaside Sparrow	<i>Ammospiza maritima nigrescens</i>				X	C
Seaside Sparrow (Cape Sable)	<i>Ammodramus maritimus mirabilis</i>				E	C
Seaside Sparrow (Atlantic/Gulf)	<i>Ammodramus maritima maritima/pennisulae/ macgillivraii/ fisheri/sennetti</i>	C				
Saltmarsh Sparrow	<i>Ammodramus caudacuta</i>	C				
Baird's Sparrow	<i>Centronyx bairdii</i>	C				
Henslow's Sparrow	<i>Centronyx henslowii</i>	C				
Savannah Sparrow (Belding's)	<i>Passerculus sandwichensis beldingi</i>	R				
Song Sparrow (Alameda/Samuels)	<i>Melospiza melodia pusillula/samuelis</i>	R				
Song Sparrow (Channel Island)	<i>Melospiza melodia graminea</i>	R				
California Towhee (Inyo)	<i>Melozone crissalis eremophilus</i>				T	C
Rufous-crowned Sparrow (Rock)	<i>Aimophila ruficeps eremoeca</i>	R				
Yellow-breasted Chat (Eastern)	<i>Icteria virens virens</i>	R				
Yellow-headed Blackbird	<i>Xanthocephalus xanthocephalus</i>	R				
Bobolink	<i>Dolichonyx oryzivorus</i>	C				
Eastern Meadowlark	<i>Sturnella magna</i>	R				
Puerto Rican Oriole	<i>Icterus portoricensis</i>		P			
Orchard Oriole	<i>Icterus spurius</i>	R				
Bullock's Oriole	<i>Icterus bullockii</i>	R				
Scott's Oriole	<i>Icterus parisorum</i>	R				
Tricolored Blackbird	<i>Agelaius tricolor</i>	C				
Yellow-shouldered Blackbird	<i>Agelaius xanthomus</i>				E	P
Rusty Blackbird	<i>Euphagus carolinus</i>	R				
Bachman's Warbler	<i>Vermivora bachmanii</i>				X	C
Golden-winged Warbler	<i>Vermivora chrysoptera</i>	C				
Blue-winged Warbler	<i>Vermivora cyanoptera</i>	R				
Prothonotary Warbler	<i>Protonotaria citrea</i>	C				

Common Name	Scientific Name	BCC 2021 ¹			ESA/WL ²	
		CO	PV	HP	List	Area
Colima Warbler	<i>Leiothlypis crissalis</i>	C				
Virginia's Warbler	<i>Leiothlypis virginiae</i>	C				
Connecticut Warbler	<i>Oporornis agilis</i>	C				
Kentucky Warbler	<i>Geothlypis formosa</i>	C				
Common Yellowthroat (San Francisco)	<i>Geothlypis trichas sinuosa</i>	R				
Elfin-woods Warbler	<i>Setophaga angelae</i>				T	P
Kirtland's Warbler	<i>Setophaga kirtlandii</i>	C				
Cape May Warbler	<i>Setophaga tigrina</i>	R				
Cerulean Warbler	<i>Setophaga cerulea</i>	C				
Bay-breasted Warbler	<i>Setophaga castanea</i>	R				
Prairie Warbler	<i>Setophaga discolor</i>	C	P			
Grace's Warbler	<i>Setophaga graciae</i>	C				
Black-throated Gray Warbler	<i>Setophaga nigrescens</i>	R				
Hermit Warbler	<i>Setophaga occidentalis</i>	R				
Golden-cheeked Warbler	<i>Dendroica chrysoparia</i>				E	C
Black-throated Green Warbler (Wayne's)	<i>Setophaga virens</i> (Wayne's)	R				
Canada Warbler	<i>Cardellina canadensis</i>	C				
Red-faced Warbler	<i>Cardellina rubrifrons</i>	C				
Scarlet Tanager	<i>Piranga olivacea</i>	R				
Pyrrhuloxia	<i>Cardinalis sinuatus</i>	C				
Rose-breasted Grosbeak	<i>Pheucticus ludovicianus</i>	R				
Varied Bunting	<i>Passerina versicolor</i>	C				
Painted Bunting	<i>Passerina ciris</i>	R				
Dickcissel	<i>Spiza americana</i>	R				

¹BCC = Birds of Conservation Concern 2021: CO (C) = Continental USA, R = continental Bird Conservation Region list (BCR); PV (P) = Puerto Rico and Virgin Islands; HP (H) = Hawaii and Pacific Islands.

²ESA/WL (List) = listed under the USA Endangered Species Act as endangered (E) or threatened (T); considered extinct in the wild (X); or on the Partners in Flight Watch List in 2014 or the Avian Conservation Assessment Database in 2019 and not defined as a Migratory Bird (W). Area = main occurrence region of ESA or Watch List taxa as described above (C, P, H).

Appendix 2.

Numbers of Birds of Conservation Concern 2021, non-migratory birds on the Watch Lists in the 2014 State of the Birds (Rosenberg et al. 2014) or Avian Conservation Assessment Database (Partners in Flight 2019), species or populations listed as threatened or endangered under the ESA, and extinct species or populations for the Continental USA, Puerto Rico and the Virgin Islands, and Hawaii and the Pacific Islands. Shared taxa assigned to breeding area list or by greatest abundance.

Region	BCC 2021	Watch List 2014/2019	ESA	Extinct
Continental USA ¹	129 (88) ¹	11	43	8
Puerto Rico/Virgin Islands	21	0	8	2
Hawaii/Pacific Islands	31	13	37	37

¹Continental list and (additional BCR-scale taxa).



Least Tern, Joanna Gilkeson/USFWS

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