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**BIRDS OF  
CONSERVATION CONCERN  
2008**

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**U.S. Fish and Wildlife Service  
Division of Migratory Bird Management  
Arlington, Virginia**

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## LIST OF ACRONYMS

AI	Area Importance (an assessment factor)
ABC	American Bird Conservancy
BBS	Breeding Bird Survey
BCC	Birds of Conservation Concern
BCR	Bird Conservation Region
BD	Breeding Distribution
CCS	Continental Combined Score
DPS	Distinct Population Segment
ESA	Endangered Species Act
FWCA	Fish and Wildlife Conservation Act
MBTA	Migratory Bird Treaty Act
NABCI	North American Bird Conservation Initiative
NAWCP	North American Waterbird Conservation Plan
ND	Non-breeding Distribution
NWR	National Wildlife Refuge
PIF	Partners in Flight
PS	Population Size
PT	Population Trend
RD	Relative Density
TB	Threats in the Breeding Season
TN	Threats in the Non-breeding season
USFWS	U.S. Fish and Wildlife Service
USSCP	United States Shorebird Conservation Plan

## 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 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.” *Birds of Conservation Concern 2008 (BCC 2008)* is the most recent effort to carry out this mandate. The overall goal of this report is to accurately identify the migratory and non-migratory bird species (beyond those already designated as federally threatened or endangered) that represent our highest conservation priorities. The geographic scope of this endeavor is the United States in its entirety, including island "territories" in the Pacific and Caribbean. *BCC 2008* encompasses three distinct geographic scales—North American Bird Conservation Initiative (NABCI) Bird Conservation Regions (BCRs), USFWS Regions, and National—and is primarily derived from assessment scores from three major bird conservation plans: the Partners in Flight North American Landbird Conservation Plan, the United States Shorebird Conservation Plan, and the North American Waterbird Conservation Plan.

Bird species considered for inclusion on lists in this report include nongame birds, gamebirds without hunting seasons, subsistence-hunted nongame birds in Alaska; and Endangered Species Act candidate, proposed endangered or threatened, and recently delisted species. Assessment scores from all three bird conservation plans are based on several factors, including population trends, threats, distribution, abundance, and relative density. These assessment scores serve as the foundation on which we built the *BCC 2008* lists. Although the different bird conservation plans use somewhat different methods for determining the highest priority species, the scores from each represent true conservation priorities for each of the three species groups (landbirds, shorebirds, and waterbirds). We therefore view the conservation priorities within each plan as approximately equivalent. After creating BCR lists, we developed specific criteria for including species on USFWS Region and National lists. The various BCR lists contain 10 to 53 species, USFWS Region lists contain 27 to 78 species, and the National list contains 147 species. On average, priority species make up about 10 to 15 percent of the native bird species in any given geographic unit.

While all of the bird species included in *BCC 2008* are priorities for conservation action, this list makes no finding with regard to whether they warrant consideration for ESA listing. Our goal is to prevent or remove the need for additional ESA bird listings by implementing 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.” This report should also be used to develop research, monitoring, and management initiatives. *BCC 2008* is intended to stimulate coordinated and collaborative proactive conservation actions among Federal, State, Tribal, and private partners. We hope that, by focusing attention on these highest-priority species, this report will promote greater study and protection of the habitats and ecological communities upon which these species depend, thereby contributing to healthy avian populations and communities.

## ACKNOWLEDGMENTS

This document was the result of close collaboration between staff in all regions of the U.S. Fish and Wildlife Service's Migratory Bird Program. The primary collaborators were Mila Plavsic, Jeff Shenot, and Marie Strassburger (Region 9); the initiative coordinators, Brad Andres (U.S. Shorebird Conservation Plan; USSCP), Jennifer Wheeler (North American Waterbird Conservation Plan; NAWCP) and Terry Rich (Partners in Flight; PIF); and the Regional Coordinators: Tara Zimmerman, Mike Green, Nanette Seto, Sue Thomas, and Maura Naughton (Region 1), Bill Howe and Dave Krueper (Region 2), Steve Lewis, Tom Will, and Bob Russell (Region 3), Dean Demarest, Chuck Hunter, Jaime Collazo, and Stefani Melvin (Region 4), Randy Dettmers (Region 5), Stephanie Jones, Suzanne Fellows, and Kevin Kritz (Region 6), Kent Wohl, Steve Matsuoka, and Richard Lanctot (Region 7). All were involved in developing selection criteria, compiling and finalizing BCR and USFWS Region lists, and reviewing and commenting on several drafts of this report.

The basis of this list is the work that many people have done to reach true avian priorities, and we have based this document on their work. We are particularly grateful for all of the work the initiatives (USSCP, NAWCP, and PIF) have done completing prioritization scores and methods. We thank Arvind Panjabi (Rocky Mountain Bird Observatory) for making available the PIF database and for responding to our many questions.

This edition of the *BCC 2008* is dedicated to John L. Trapp, who retired from USFWS in 2007 after 33 years of outstanding contributions to bird conservation. John had an extensive ornithological knowledge and passion for birds, and he oversaw almost all of the previous editions of the Birds of Conservation Concern.

## INTRODUCTION

The purpose of this document is to identify migratory and non-migratory birds of the United States and its territories that are of conservation concern so as to stimulate coordinated and proactive conservation actions among Federal, State, Tribal, and private partners. The conservation concerns may be the result of population declines, naturally or human-caused small ranges or population sizes, threats to habitat, or other factors. The primary statutory authority for *Birds of Conservation Concern 2008 (BCC 2008)* is the Fish and Wildlife Conservation Act of 1980 (FWCA), as amended; other authorities include the Endangered Species Act (ESA) of 1973, the Fish and Wildlife Act of 1956, and 16 U.S.C. § 701. The 1988 amendment (Public Law 100-653, Title VIII) to the FWCA requires the Secretary of the Interior, through the United States 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 of 1973.” *BCC 2008* is the most recent effort by the USFWS to carry out this proactive conservation mandate and update *Birds of Conservation Concern 2002* (USFWS 2002). The overall goal of this report is to accurately identify those species (beyond those already federally listed as threatened or endangered) in greatest need of conservation action at three different geographic scales.

A primary goal of the USFWS is to conserve avian diversity in North America (USFWS 1990, 2004). This goal includes reducing or removing threats that may necessitate that a species be considered for listing under the ESA. The Birds of Conservation Concern are largely a subset of a larger list known as the Birds of Management Concern (BMC). The BMC is a subset of all species protected by the Migratory Bird Treaty Act (MBTA, see 50 CFR 10.13), and includes those which pose special management challenges due to a variety of factors (e.g., too few, too many, conflicts with human interests, or societal demands) (USFWS 2004). The BMC includes both game birds below their desired condition and nongame birds. As indicated in its strategic plan (USFWS 2004), the Migratory Bird Program places priority emphasis on these birds in its activities.

The philosophy underlying this report is that proactive bird conservation is necessary at a time when human impacts are at an all-time high. We strongly believe that a well-designed program that addresses resource-management issues up front will prevent or remove the need to consider listing species as threatened or endangered, and will promote and conserve long-term avian diversity in the United States. In addition, proactive conservation clearly is more cost-effective than the extensive recovery efforts required once a species is federally listed under the ESA. Our intent is for *BCC 2008* to stimulate coordinated efforts to develop and implement comprehensive and integrated approaches for the study, management, and protection of “non-ESA listed” bird species deemed to be in the most need of additional conservation actions. It should also be noted that, while the inclusion of native species not listed under the MBTA is beyond the scope of the FWCA, the USFWS has an incentive to encourage proactive management of these species by State agencies and other partners to prevent the need for listing them as endangered or threatened.

Bird species assemblages, guilds, or communities have recently been promoted as indicators of ecological integrity in a variety of habitats (Bradford et al. 1998, O'Connell et al. 2000, Canterbury et al. 2000, Venier and Pearce 2007), and at-risk bird species are good measures of ecosystem threats (Beissinger et al. 1996). Setting priorities in conservation is crucial because resources are limited. Many systems for setting wildlife-conservation priorities have been proposed. Some have focused heavily on identifying and quantifying threats to endangered or rare species (Master 1991, Wilcove et al. 1998). Others have focused on highlighting species that deserve attention due to threats to their populations, widespread or long-term declines, or low potential for population recovery (Millsap et al. 1990). The Canadian Wildlife Service developed a priority ranking system that focuses on conservation concerns and agency responsibilities to assist in setting conservation priorities for landbird species (Dunn 1997, Dunn et al. 1999). The mandate of the 1988 FWCA amendment requires a more proactive approach.

*BCC 2008* uses current conservation assessment scores from three bird conservation plans: Partners in Flight North American Landbird Conservation Plan (PIF; Rich et al. 2004), the United States Shorebird Conservation Plan (USSCP; Brown et al. 2001, USSCP 2004), and the North American Waterbird Conservation Plan (NAWCP, Kushlan et al. 2002). Waterfowl game species covered by the North American Waterfowl Management Plan (Canadian Wildlife Service, U.S. Fish and Wildlife Service, Secretario de Medio Ambiente y Recursos Naturales, 2004) are specifically excluded from the BCC list in accordance with the FWCA of 1980. Species in need of additional conservation attention are identified at three distinct geographic scales: North American Bird Conservation Initiative (NABCI) Bird Conservation Regions (BCRs; U.S. NABCI Committee 2000a, 2000b, 2000c), USFWS Regions, and National.

Assessment scores are based on several parameters including population trend, threats, distribution, abundance, and the importance of an area to a species. Partners in Flight, a coalition of Federal and State government agencies, non-governmental organizations, and private interests, developed species assessment scores out of concern for the sharp declines in many North American landbirds (Rich et al. 2004). The PIF approach (Carter et al. 2000, Rich et al. 2004) has been peer-reviewed by an independent body of avian biologists (Beissinger et al. 2000). Similar coalitions have prepared and reviewed conservation assessment scores for shorebirds at the National scale (Brown et al. 2000, USSCP 2004), and in step-down regional shorebird conservation plans (see <http://www.fws.gov/shorebirdplan>) and for waterbirds at the continental scale (Kushlan et al. 2002) and in step-down regional waterbird conservation plans (see <http://www.waterbirdconservation.org>). Additionally, we found it necessary to develop conservation assessment scores for species not yet evaluated by any of the bird conservation plans, such as Pacific Island birds. Taken together, these assessment scores can be used to develop a comprehensive set of integrated bird conservation priorities; this represents a unique conservation effort unmatched in any other major group of organisms in North America.

## BACKGROUND



## Why Did We Create Lists at Different Geographic Scales?

Listing birds of conservation concern at three geographic scales maximizes the utility of the lists for a variety of partner agencies and organizations. The different geographic scales, from smallest to largest, are as follows:

Bird Conservation Regions (BCRs). We have adopted BCRs as the smallest of our geographic scales. BCRs have been endorsed by the North American Bird Conservation Initiative (NABCI, U.S. NABCI Committee 2000a, 2000b, 2000c) as the basic units within which all-bird conservation efforts will be planned and evaluated (Fig. 1). The NABCI is an endeavor to increase the effectiveness of bird conservation at the continental level and currently includes the United States, Canada, and Mexico. Its goal is to deliver “the full spectrum of bird conservation through regionally based, biologically driven, landscape-oriented partnerships” (U.S. NABCI Committee 2000a). A published map of BCRs and accompanying written descriptions of each are available (U.S. NABCI Committee 2000b, 2000c). The BCR lists will be most useful to Federal land-managing agencies and their partners in their efforts to abide by the bird conservation principles embodied in the MBTA and Executive Order 13186, “Responsibilities of Federal agencies to protect migratory birds” (Clinton 2001). The NABCI has recognized 35 BCRs that cover the contiguous 48 States, Alaska, and Hawaii, numbered 1 to 5, 9 to 37, and 67 (Hawaii) (U.S. NABCI Committee 2000a, 2000b, 2000c, <http://www.nabci-us.org/bcrs.html>). For purposes of this report, we created two additional BCRs to encompass island “territories” of the United States,<sup>1</sup> “Other U.S. Pacific Islands” (i.e., excluding Hawaii) and “U.S. Caribbean Islands.” In the *BCC 2002* report, these two BCRs were referred to as BCR 68 for the Pacific Ocean and BCR 69 for the Caribbean, but those designations were changed for *BCC 2008* because NAWCP uses those numbers to refer to marine areas (“pelagic” BCRs). Although *BCC*

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<sup>1</sup> Island “territories” and other affiliations of the United States considered in this document include (a) *American Samoa*—an unincorporated and unorganized territory; (b) *Baker Island*—an unincorporated territory administered by the USFWS as a National Wildlife Refuge (NWR); (c) *Commonwealth of the Northern Marianas Islands*—aligned through a covenant of “political union”; (d) *Guam*—an unincorporated organized territory; (e) *Howland Island*—an unincorporated territory administered by the USFWS as a NWR; (f) *Jarvis Island*—an unincorporated territory administered by the USFWS as a NWR; (g) *Johnston Atoll*—an unincorporated and unorganized territory under joint operational control of the Department of Defense and USFWS (and administered as a NWR); (h) *Kingman Reef*—an unincorporated territory administered by the USFWS as a NWR; (i) *Midway Atoll*—an unincorporated territory administered by the USFWS as a NWR; (j) *Navassa Island*—administered by the USFWS as a NWR; (k) *Palmyra Atoll*—an incorporated territory that is partially privately owned and partially administered by USFWS as an NWR; (l) *Commonwealth of Puerto Rico*—a commonwealth; (m) *U.S. Virgin Islands*—an unincorporated organized territory; and (n) *Wake Island*—an unincorporated territory administered by the Department of the Interior (Central Intelligence Agency 2001).

2008 does not adopt the pelagic BCR system, it recognizes that some BCC species occur in the U.S. primarily or only at sea. These species are listed under the adjacent terrestrial BCR. Thus, there are 37 BCR lists of priority species.

USFWS Regions. BCC lists are presented in this document for 8 USFWS Regions.<sup>2</sup> The USFWS Region lists will be useful to USFWS administrators and biologists, other Federal and State agencies within a Region, and their partners and cooperators.

National. The National list encompasses the United States in its entirety, including island "territories" in the Caribbean and the Pacific. The National list should be viewed as a barometer of the status of U.S. bird populations, providing an "early warning" of birds that may decline to levels requiring ESA protection unless additional conservation measures are taken. The National list will be most useful as an outreach tool for educating the public about the precarious status of bird species in the U.S. It will also be useful for National bird conservation planning. The National list should not be used to foster bird conservation at smaller geographic scales; that is the purpose of the BCR and USFWS Region lists.

Although there are other lists of this nature, such as the National Audubon Society/American Bird Conservancy 2007 WatchList (Butcher et al. 2007), *BCC 2008* is the only list that meets USFWS mandates for the conservation of migratory nongame birds. Conservation organizations create lists of concern that reflect their unique missions, and it is important to keep this in mind when comparing lists. With regard to birds, the USFWS focuses on its trust responsibilities as defined by the Code of Federal Regulations, which excludes, for example, gallinaceous birds (resident game birds) unless they are listed as threatened or endangered under the Endangered Species Act (ESA). Similarly, the *Birds of Conservation Concern*, as mandated by Congressional legislation, excludes birds regulated as hunted species and birds listed under the ESA. Nongovernmental organizations like American Bird Conservancy (ABC) or National Audubon are not limited by these legal distinctions, and as a result they can provide lists that are more inclusive. The USFWS *Birds of Conservation Concern*, the ABC/Audubon Watch List, and a number of other lists share a common base: they are all reliant on the conservation assessments of the major bird partner initiatives and the surveys upon which those initiative assessments are grounded. National Audubon, American Bird Conservancy, and the USFWS are all partners, among others, in participating in the assessments of those initiatives.

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<sup>2</sup>The Pacific Region (Region 1) includes Idaho, Oregon, Washington, Hawaii, and the Pacific Islands. The Southwest Region (Region 2) includes Arizona, New Mexico, Oklahoma, and Texas. The Great Lakes-Big Rivers Region (Region 3) includes Illinois, Indiana, Iowa, Michigan, Missouri, Minnesota, Ohio, and Wisconsin. The Southeast Region (Region 4) includes Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, Puerto Rico/Virgin Islands, South Carolina, and Tennessee. The Northeast Region (Region 5) includes Connecticut, Delaware, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, Virginia, and West Virginia. The Mountain-Prairie Region (Region 6) includes Colorado, Kansas, Montana, North Dakota, Nebraska, South Dakota, Utah, and Wyoming. The Alaska Region (Region 7) consists of the state of Alaska. The California and Nevada Region (Region 8) consists of the states of California and Nevada.

## What Bird Species Did We Consider?

The various species groups considered for inclusion in *BCC 2008* are described in Table 1 and include nongame birds; gamebirds without hunting seasons; subsistence-hunted nongame birds in Alaska; and Endangered Species Act candidate, proposed endangered or threatened, and recently delisted species. The major groups of species not considered in this assessment are (1) migratory gamebirds for which hunting regulations are established (i.e., cooperatively managed by Federal-State flyway councils); (2) species that are peripheral to the U.S. (i.e., population fragments within U.S. jurisdiction are too small to be managed capably); (3) species, subspecies, and populations of federally-endangered or -threatened birds (i.e., those subject to the provisions of the ESA); (4) resident gamebirds (i.e., managed by State wildlife agencies), unless listed as a federal ESA candidate; and (5) non-native species.

Because the assessments of the three bird conservation initiatives that we use here are all species-based, assessment scores were available only for full species. However, where appropriate, subspecies and populations are included in this assessment based on geographic range, federal candidate status, or available local data. Such subspecies and populations are noted on lists at all three geographic scales.

In the spirit of all-bird conservation, we include native species not specifically covered by the MBTA when they are deemed to be conservation priorities, as long as they are not part of one of the groups excluded from consideration (see above). To avoid confusion, we clearly differentiate between those species that are and are not protected by the MBTA. A list of species protected by the MBTA is found in Title 50, Part 10, of the *Code of Federal Regulations*.

## What Sources of Information Did We Use?

The methods used to assess and prioritize species differ between PIF, the USSCP, and the NAWCP. These differences relate to geographic scope, factor thresholds, and treatment of uncertainty. Although the methods for determining the highest-priority species are somewhat different among the different initiatives, scoring reflects state-of-the-art conservation assessments for each of the three species groups (landbirds, shorebirds, and waterbirds); we therefore view the conservation priorities within the three conservation plans as approximately equivalent.

PIF Assessment Scores. We used assessment scores from the PIF Species Assessment Database (version 2005, with unpublished 2007 updates) housed at the Rocky Mountain Bird Observatory, which we believe were the best available data at the time this report was prepared. In this database a panel of bird species experts has assigned each landbird species in North America scores ranging from 1 (lowest priority or degree of concern) to 5 (highest priority or degree of concern) for each of six factors, assessing aspects of future vulnerability at the range-wide scale: Population Size (PS), Breeding Distribution (BD), Non-breeding Distribution (ND), Threats in the Breeding Season (TB), Threats in the Non-breeding season (TN), and Population Trend (PT) (Panjabi et al. 2005). These factors are then used to calculate a Continental Combined Score

(CCS):  $PS + \max(BD, ND) + \max(TB, TN) + PT$ . The threats scores and the distribution scores are highly correlated so PIF used this score rather than a simple total. Thus, CCS ranges from 4 for a widespread and increasing species which is expected to face even more favorable conditions in the future, to 20 for a species of the very highest future conservation concern. The CCS was used to develop the landbird portion of the National BCC list.

Partners in Flight also assesses species at the BCR level. That assessment includes two additional criteria, Relative Density (RD) and Percent of Population, which reflect the importance of a particular BCR to each species. The global scores for TB, TN, and PT are also adjusted using BCR-specific data. These BCR scores informed the selection of landbirds for the *BCC 2008* BCR lists.

All of these factors are defined and discussed in detail in Panjabi et al. (2005). Both PIF breeding and wintering (non-breeding) scores, where available, were used in assessing species for inclusion in the *BCC 2008* report. In consultation with experts, the USFWS prepared scores for landbirds of Hawaii and Pacific island “territories” using the PIF process.

USSCP Assessment Scores. For shorebird species, we started with the updated assessment scores from the USSCP (USSCP 2004), which were built on original plan assessments (Brown et al. 2000, Brown et al. 2001). We incorporated new information on shorebird population trends and sizes published by Morrison et al. (2006) and Bart et al. (2007). Information on population sizes were ranked according to the PIF criteria. We also included updates in breeding and nonbreeding threats provided by regional shorebird working groups. The USSCP assessment process uses most of the same factor scores (with slightly different criteria) as PIF, but priorities were derived using a categorical (rather than a summation) approach (Brown et al. 2001). A prioritization protocol for shorebirds (in Brown et al. 2001) describes prioritization categories and their relationship to factor scores.

NAWCP Assessment Scores. Like USSCP, the NAWCP assessment process also uses most of the same factor scores (with slightly different criteria) as PIF and derives priorities using a categorical approach (Kushlan et al. 2002). For all three scales used in the BCC, we referred to the continental-scale assessment results documented in the NAWCP plan (Kushlan et al. 2002) and subsequent analyses (i.e., for non-colonial waterbirds, documented at <http://www.waterbirdconservation.org>), which we considered to be the best available data for waterbirds and seabirds. For *BCC 2008* BCR lists, we also referred to assessments in regional waterbird conservation plans or documents that most closely resemble regional waterbird conservation plans, where available (see [www.waterbirdconservation.org](http://www.waterbirdconservation.org).) These regional-scale status assessments are, in general, based on the continental-scale assessment, though regional planning groups made adjustments based on BCR-scale needs and values.

### **What Selection Criteria Did We Use For *Birds of Conservation Concern 2008* Lists?**

The following are the criteria used to select species for consideration and inclusion on BCR, USFWS Region, and National lists. At each scale, USFWS expertise and discretion refined the

pool of species under consideration from the three bird conservation initiatives—as well as those selected for priority lists—to comply with the FWCA amendment of 1988. The same criteria were used for all subspecies and populations considered separately for inclusion.

There may be additions to the lists over the next several years. Newly designated Federal candidate species, species proposed for listing, and species removed from the list of endangered and threatened species will automatically be considered to be on the appropriate BCC list(s), effective the day of their designation or delisting as published in the *Federal Register*.

### **General criteria (rule-sets) for placing species on any BCC list**

1. Begin with list from appropriate bird conservation initiative.
2. Follow criteria below for appropriate bird groups (see Panjabi et al. 2005 for explanation of terms).
3. Add non-breeding species if the species occurs at significant Relative Density scores and/or has moderate or high threat levels (based on expert opinion or data) in non-breeding season, if not already included due to breeding population (indicate with “nb”).
4. Consider subspecies and populations where appropriate and where information on their status is available (e.g., Dickinson 2003).
5. Remove sport-hunted species (including their non-hunted populations) and federally-listed threatened or endangered populations (retaining non-listed populations with notation).
6. Add any recently ESA de-listed, candidate, or proposed species not already included.
7. In very limited circumstances, add or remove species (and document rationale) when Service expertise, supplemental information, or local data indicates a much greater or lesser degree of concern than that reflected by bird conservation initiative scoring.

### **Criteria for placing species on BCR lists**

***LANDBIRD* criteria for BCR lists (see Panjabi 2005 for explanation of terms):**

1. Include species meeting the PIF criteria for Species of Regional Importance – Continental Concern (U.S. and Canada), EXCEPT
  - a) if Regional Combined Score <15 and Action Code = “Planning and Responsibility”
  - b) in BCRs shared with Canada and Mexico, those with Relative Density  $\geq 1$  in the U.S. portion of the BCR (consult state population data).

- c) for species shared with Latin America and the Caribbean (LAC), remove species with core ranges outside the U.S. and its territories if <1% of population or range-wide distribution is in the U.S. and threats in LAC are low. However, if conservation action for a species is warranted in the U.S. due to high threats in LAC, then it could be included in the appropriate U.S. BCR lists.
2. Include species meeting the PIF criteria for Species of Regional Importance – Regional Concern IF:
    - a) Regional Combined Score  $\geq 15$  and Action Code = “Critical Recovery” or “Immediate Management”
    - b) Regional Combined Score  $\geq 17$  and Action Code = “Management Attention”
  3. Rank species in Hawaii and Pacific island territories using latest PIF criteria and above criteria as appropriate.

***SHOREBIRD* criteria for *BCR* lists:**

1. Include all species, subspecies, and populations meeting criteria for National BCC List if >1% of taxon occurs anytime during annual cycle in the BCR (i.e., Relative Density  $\geq 1$  in the BCR). The criteria for National BCC List are:
  - a) population is undergoing a strong decline (Population Trend = 5), regardless of population size; OR
  - b) population is declining or stable (Population Trend = 4 or 3) and populations are small, distributions are limited and threats are high (Population Size + Breeding Distribution + Non-breeding Distribution + Threats to Breeding + Threats to Non-breeding  $\geq 18$ ).

***WATERBIRD* criteria for *BCR* lists:**

1. Initially identify species of greatest concern from each BCR using the regional waterbird conservation plans or similar documentation (e.g., Joint Venture implementation plans). Depending on BCR-scale approaches, include species regionally assessed as High or Highest/Highly Imperiled, as Tier I (if the PIF approach was used), or priority species for BCR-scale partnership.
2. Remove species from BCR lists if U.S. populations are considered unmanageable (e.g., Relative Density <1).
3. Identify and retain only those species of greatest conservation concern, as some regional-plan species lists were designed to maximize support for a wide range of conservation activities by partners or identify species around which partnerships could operate.

### **Criteria for placing species on USFWS Regional lists**

1. Include species from the BCC BCR lists if the species has the equivalent of a RD >1 or a manageable population in 50% or more of the BCRs in which it occurs within a USFWS region.

### **Criteria for placing species on BCC National list**

#### ***LANDBIRD* criteria for *National* list:**

1. Include all PIF “Continental Watchlist” (which includes the U.S. and Canada) species and U.S. island territories’ species that meet PIF Continental Watchlist criteria EXCEPT,
  - a) species without manageable populations in the U.S. or its territories; however, if conservation action is warranted in the U.S. due to high threats elsewhere, then such species could be included;
  - b) species that are not listed on any BCC BCR list.

#### ***SHOREBIRD* criteria for *National* list:**

1. Include species (or subspecies/population designations where supported by USSCP Conservation Assessment [2000] or more recent work) that meet any ONE of the following criteria:
  - a) population is undergoing a strong decline (Population Trend = 5), regardless of population size; OR
  - b) population is declining or unknown (Population Trend = 4 or 3) and populations are small, distributions are limited and threats are high (Population Size + Breeding Distribution + Non-breeding Distribution + Threats to Breeding + Threats to Non-breeding  $\geq 18$ ).

Scores have been revised and reflect the best science to date and are under review (Andres unpubl.).

#### ***WATERBIRD* criteria for *National* list:**

1. Include species ranked “Highly Imperiled” in the NAWCP continental-scale assessment unless not occurring on any BCR list.
2. Consider all species ranked “High” in the NAWCP continental-scale assessment (unless not

occurring on any BCR list) and include those with global population size (PS) factor score of 5, 4, 3 or 2. Populations at PS = 2 are included if they are at the lower end of the range in this category (i.e., 69,200) and experiencing steep declines.

## **THE BIRDS OF CONSERVATION CONCERN 2008 LISTS**

To maximize the usefulness of this report to multiple partners, the *BCC 2008* lists are presented in 46 separate tables, comprising 37 BCR lists (Tables 2 to 38), 8 USFWS Region lists (Tables 39 to 47) and 1 National list (Table 48). Summaries of the status of each species at each of the three distinct geographic scales are provided in Appendix B, and a list of scientific names of all species mentioned is found in Appendix C. The BCR lists range from 10 to 53 species, USFWS Region lists range from 27 to 78 species, and the National list consists of 147 species. The number of priority species represents roughly 10 to 15 percent of all bird species of any given geographic unit.

### **BCR Lists**

The number of species on individual BCR lists (Tables 2 to 38) ranges from 10 to 53, averaging about 27. Lists are generally larger for BCRs in the southern United States, reflecting greater species diversity at lower latitudes and the importance of these regions for wintering migrants. Island birds are at increased risk of becoming endangered. Thus, the “Other U.S. Pacific Islands” BCR and “U.S. Caribbean Islands” BCR have relatively high proportions of their native species represented as birds of conservation concern. Roughly ten percent of the bird species native to Hawaii (BCR 67) are identified as birds of conservation concern, but that region also has a disproportionately large number of bird species listed as either endangered or threatened under the ESA; combining birds of conservation concern with endangered or threatened species, about 25 percent of the native Hawaiian avifauna is at risk.

### **USFWS Region Lists**

The number of species on individual USFWS Region lists (Tables 39 to 47) ranges from 27 to 78, averaging about 50. Following the trend seen in BCRs, USFWS Region lists of priority species are larger in the southern United States, although this is partially attributed by the disparities in area covered by each of the Regions. The birds on the USFWS Region lists generally represent about 10 percent of the species native to the respective Regions.

### **National List**

The National list (Table 48) is comprised of 147 species, and includes disproportionately larger numbers of species from the orders Procellariiformes (albatrosses, petrels, shearwaters, and storm-petrels), Charadriiformes (shorebirds, gulls, terns, and auks), and Piciformes (woodpeckers). Within the Charadriiformes, the families Charadriidae (plovers), Haematopodidae (oystercatchers), Scolopacidae (sandpipers), and Alcidae (murrelets, murrelets,



and auklets) are represented on the list by greater numbers of species than expected. Among the Passeriformes—a large and diverse order of perching birds—the families Parulidae (wood-warblers) and Emberizidae (sparrows) and the subfamily Drepanidinae (Hawaiian honeycreepers) dominate the list in terms of both actual and relative numbers.

## DISCUSSION

*BCC 2008* is the latest update in a continuing effort to assess and prioritize bird species for conservation purposes (USFWS 1982, 1987, 1995, 2002; and U.S. Department of the Interior 1990). It is difficult to make meaningful comparisons among the lists because of differences in the way each succeeding report was prepared. In chronological order, these previous lists contained 28, 30, 77, 124, and 131 species of conservation concern at a National scale in 1982, 1987, 1990, 1995, and 2002 respectively; by comparison, *BCC 2008* includes 147 species at the National scale.

Do these figures reflect an actual decline in the conservation status of the Nation's birdlife, or do they merely reflect improvements in our ability to accurately identify and characterize species in real need of conservation attention? The truth probably lies somewhere in between. The preparation of prioritized species lists should be viewed as an evolving process, improving as our knowledge base increases, with each list reflecting the best available information at the time of its publication. The three bird conservation initiatives update their own assessments and scoring as new data or analyses become available. The data from these initiatives—which form the basis of *BCC 2008*—incorporate a great deal of input from many bird experts and have wide acceptance among members of avian conservation and scientific communities. We are confident that the methods used in *BCC 2008* are the best available for identifying avian conservation priorities as directed by the FWCA amendment of 1988.

Of the 131 species on the *BCC 2002* National list, 103 were retained on the current 2008 list and 28 were deleted due to a lack of convincing evidence that continued elevated concern is warranted. Forty-four species were added to the National list, resulting in a net gain of sixteen species for a current total of 147 species.

Of the 211 species on the Audubon WatchList (Butcher et al. 2007) that are not also a) endangered or threatened or b) hunted, 106 are on the *BCC 2008* National list and an additional 8 are on USFWS Region or BCR lists.

The selection criteria that we used identified 10 to 15 percent of all species at each geographic scale to be in need of additional conservation attention. Nongame migratory birds protected by the MBTA, the primary focus of this effort, make up an overwhelming proportion of the species on the *BCC 2008* lists. However, the proportional representation of non-MBTA species increases progressively at larger scales, reflecting the vulnerability of the island-endemic species that form the bulk of this group. The proportional representation of ESA candidate species also increases progressively at larger scales. ESA-delisted and ESA-proposed species make up a progressively smaller proportion of the species at larger scales.

*BCC 2008* can be used as a barometer of the condition of our country's avifauna. Although there are general patterns that can be inferred from this report, there is no single reason why any species was placed on any one of these lists; some are relatively common but are undergoing sharp declines in population numbers, others are rare but may actually be increasing in numbers in certain locations, and others may be both rare and declining. However, habitat loss due to alteration or destruction continues to be the major reason for the declines of many species (Askins et al. 1990, USFWS 1995, Samson et al. 1998, Askins 2000). Birds included in the *BCC 2008* lists are deemed priorities for conservation actions, and the lists will be consulted for actions taken on Federal lands in accordance with Executive Order 13186, "Responsibilities of Federal agencies to protect migratory birds" (Clinton 2001). *BCC* species will also receive priority attention in the USFWS when allocating research, monitoring, and management funding. Our hope is that *BCC 2008* will stimulate coordinated, collaborative proactive conservation actions among Federal, State, and private partners.

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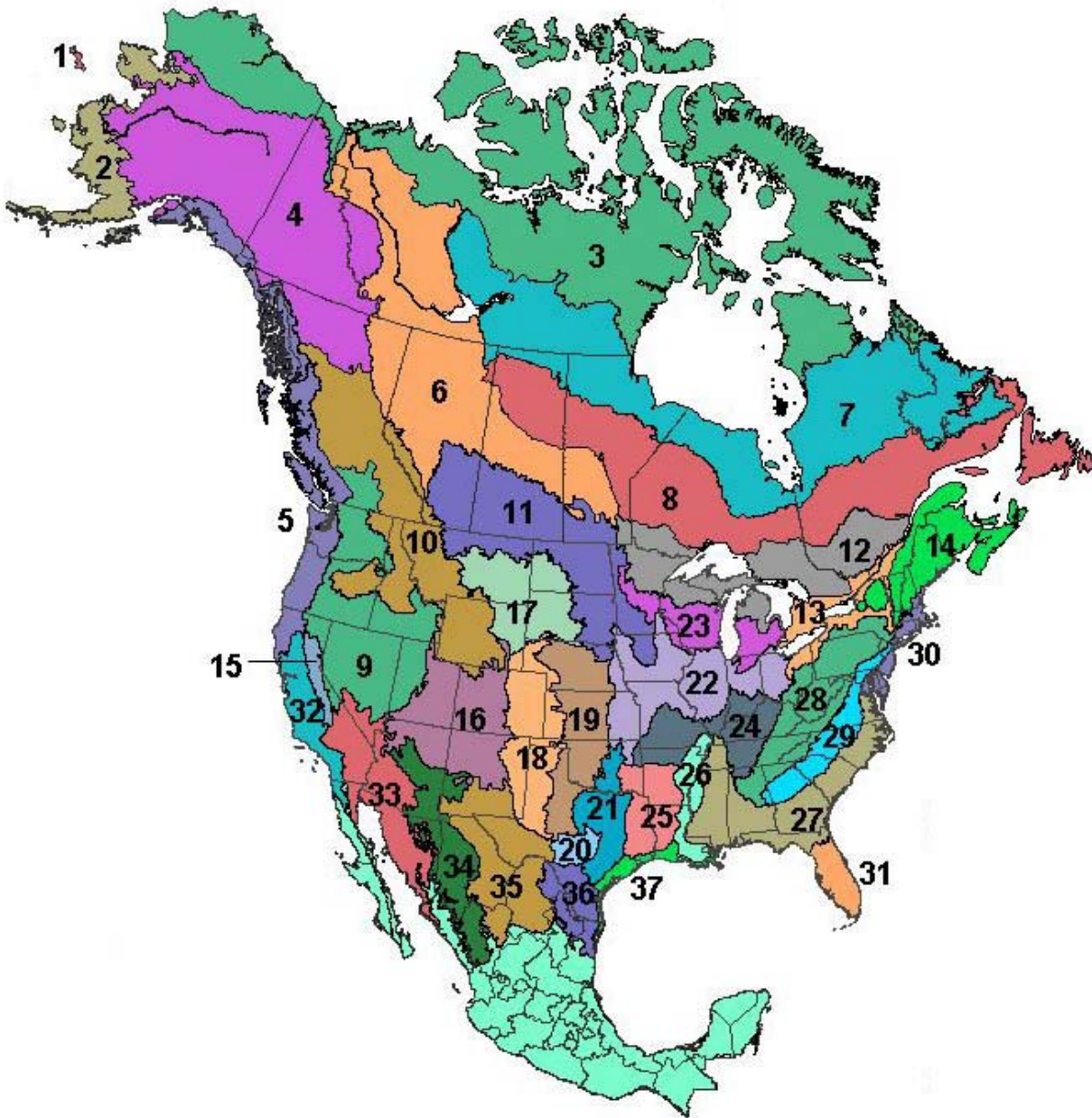
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APPENDIX A

Figure 1 Map of the Bird Conservation Regions (BCRs) of the United States 3



3 The figure does not show BCR 67 (Hawaii) or two other Bird Conservation Regions from the report that included islands in the Pacific and Caribbean which are either U.S. Territories or other affiliates.



Table 1 Eligibility of Various Species Groups for *BCC 2008* Consideration.

Applicable Federal Authority	Eligible	Not Eligible
Migratory Bird Treaty Act	"Nongame" and "other" species (as variously defined by bilateral migratory bird conventions with Canada, Mexico, Japan, and Russia)	Species peripheral to the U.S. (e.g., population fragments too small to be managed capably)
	"Gamebirds" (as defined by 50 CFR 20.11) for which hunting seasons have not recently been established (e.g., most shorebirds)	"Gamebirds" (as defined by 50 CFR 20.11) for which sport hunting seasons are established
	All subsistence-hunted species in Alaska (except "gamebirds" with established sport hunting seasons)	
Endangered Species Act	Candidates, including "resident gamebirds" (see below), or proposed Endangered or Threatened	Species, subspecies, and populations designated as Endangered or Threatened (as listed at 50 CFR 17.11)
	Non-listed subspecies and populations of otherwise Endangered or Threatened species (e.g., <i>occidentalis</i> ssp. of Spotted Owl)	
	Recently delisted MBTA species (e.g., Peregrine Falcon)	
	Other MBTA species delisted in the future	
None	Endemic Hawaiian honeycreepers of the subfamily Drepanididae (e.g., Hawai'i 'Amakihi)	"Resident gamebirds" (generally hunted and managed by State wildlife agencies), unless listed as ESA Candidate (see above)
	Other island endemics (e.g., Fiji Shrikebill)	Non-native species

Table 2 BCR 1 (Aleutian/Bering Sea Islands) *BCC 2008* list<sup>4</sup>

Laysan Albatross (nb)  
Black-footed Albatross (nb)  
Red-faced Cormorant  
Pelagic Cormorant  
Black Oystercatcher  
Rock Sandpiper (*ptilocnemis* ssp.)  
Red-legged Kittiwake  
Aleutian Tern  
Arctic Tern  
Marbled Murrelet (c)  
Kittlitz's Murrelet (a)  
Whiskered Auklet  
McKay's Bunting

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<sup>4</sup> (a) ESA candidate, (b) ESA delisted, (c) non-listed subspecies or population of Threatened or Endangered species, (d) MBTA protection uncertain or lacking, (nb) non-breeding in this BCR

Table 3 BCR 2 (Western Alaska) *BCC 2008* list<sup>5</sup>

Red-throated Loon  
Yellow-billed Loon  
Red-faced Cormorant  
Pelagic Cormorant  
Peregrine Falcon (b)  
Black Oystercatcher  
Solitary Sandpiper  
Lesser Yellowlegs  
Whimbrel  
Bristle-thighed Curlew  
Hudsonian Godwit  
Bar-tailed Godwit  
Marbled Godwit  
Red Knot (*roselaari* ssp.)  
Rock Sandpiper (*ptilocnemis* ssp.) (nb)  
Dunlin (*arcticola* ssp.) (nb)  
Short-billed Dowitcher  
Aleutian Tern  
Arctic Tern  
Marbled Murrelet (c)  
Kittlitz's Murrelet (a)  
McKay's Bunting (nb)

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<sup>5</sup> (a) ESA candidate, (b) ESA delisted, (c) non-listed subspecies or population of Threatened or Endangered species, (d) MBTA protection uncertain or lacking, (nb) non-breeding in this BCR

Table 4 BCR 3 (Arctic Plains and Mountains U.S. portion only) *BCC 2008* list.<sup>6</sup>

Red-throated Loon  
Yellow-billed Loon  
Peregrine Falcon (b)  
Whimbrel  
Bar-tailed Godwit  
Red Knot (*roselaari* ssp.)  
Dunlin (*arcticola* ssp.)  
Buff-breasted Sandpiper  
Arctic Tern  
Smith's Longspur

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<sup>6</sup> (a) ESA candidate, (b) ESA delisted, (c) non-listed subspecies or population of Threatened or Endangered species, (d) MBTA protection uncertain or lacking, (nb) non-breeding in this BCR

Table 5 BCR 4 (Northwestern Interior Forest U.S. portion only) *BCC 2008* list.<sup>7</sup>

Horned Grebe  
Peregrine Falcon (b)  
Solitary Sandpiper  
Lesser Yellowlegs  
Upland Sandpiper  
Whimbrel  
Bristle-thighed Curlew  
Hudsonian Godwit  
Red Knot (*roselaari* ssp.)  
Rock Sandpiper (*ptilocnemis* ssp.) (nb)  
Short-billed Dowitcher  
Olive-sided Flycatcher  
Smith's Longspur  
Rusty Blackbird

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<sup>7</sup> (a) ESA candidate, (b) ESA delisted, (c) non-listed subspecies or population of Threatened or Endangered species, (d) MBTA protection uncertain or lacking, (nb) non-breeding in this BCR

Table 6 BCR 5 (Northern Pacific Forest U.S. portions only) *BCC 2008 list*.<sup>8</sup>

Yellow-billed Loon (nb)  
Western Grebe (nb)  
Laysan Albatross (nb)  
Black-footed Albatross (nb)  
Pink-footed Shearwater (nb)  
Red-faced Cormorant  
Pelagic Cormorant (*pelagicus* ssp.)  
Bald Eagle (b)  
Northern Goshawk (*laingi* ssp.)  
Peregrine Falcon (b)  
Black Oystercatcher  
Solitary Sandpiper (nb)  
Lesser Yellowlegs (nb)  
Whimbrel (nb)  
Long-billed Curlew (nb)  
Hudsonian Godwit (nb)  
Marbled Godwit (nb)  
Red Knot (*roselaari* ssp.) (nb)  
Short-billed Dowitcher (nb)  
Aleutian Tern  
Caspian Tern  
Arctic Tern  
Marbled Murrelet (c)  
Kittlitz's Murrelet (a)  
Black Swift  
Rufous Hummingbird  
Allen's Hummingbird  
Olive-sided Flycatcher  
Willow Flycatcher (c)  
Horned Lark (*strigata* ssp.) (a)  
Oregon Vesper Sparrow (*affinis* ssp.)  
Purple Finch

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<sup>8</sup> (a) ESA candidate, (b) ESA delisted, (c) non-listed subspecies or population of Threatened or Endangered species, (d) MBTA protection uncertain or lacking, (nb) non-breeding in this BCR

Table 7 BCR 9 (Great Basin) *BCC 2008* list.<sup>9</sup>

Greater Sage-Grouse (Columbia Basin DPS) (a)  
Eared Grebe (nb)  
Bald Eagle (b)  
Ferruginous Hawk  
Golden Eagle  
Peregrine Falcon (b)  
Yellow Rail  
Snowy Plover (c)  
Long-billed Curlew  
Marbled Godwit (nb)  
Yellow-billed Cuckoo (w. U.S. DPS) (a)  
Flammulated Owl  
Black Swift  
Calliope Hummingbird  
Lewis's Woodpecker  
Williamson's Sapsucker  
White-headed Woodpecker  
Willow Flycatcher (c)  
Loggerhead Shrike  
Pinyon Jay  
Sage Thrasher  
Virginia's Warbler  
Green-tailed Towhee  
Brewer's Sparrow  
Black-chinned Sparrow  
Sage Sparrow  
Tricolored Blackbird  
Black Rosy-Finch

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<sup>9</sup> (a) ESA candidate, (b) ESA delisted, (c) non-listed subspecies or population of Threatened or Endangered species, (d) MBTA protection uncertain or lacking, (nb) non-breeding in this BCR

Table 8 BCR 10 (Northern Rockies U.S. portion only) *BCC 2008* list.<sup>10</sup>

Bald Eagle (b)  
Swainson's Hawk  
Ferruginous Hawk  
Peregrine Falcon (b)  
Upland Sandpiper  
Long-billed Curlew  
Yellow-billed Cuckoo (w. U.S. DPS) (a)  
Flammulated Owl  
Black Swift  
Calliope Hummingbird  
Lewis's Woodpecker  
Williamson's Sapsucker  
White-headed Woodpecker  
Olive-sided Flycatcher  
Willow Flycatcher (c)  
Loggerhead Shrike  
Sage Thrasher  
Brewer's Sparrow  
Sage Sparrow  
McCown's Longspur  
Black Rosy-Finch  
Cassin's Finch

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<sup>10</sup> (a) ESA candidate, (b) ESA delisted, (c) non-listed subspecies or population of Threatened or Endangered species, (d) MBTA protection uncertain or lacking, (nb) non-breeding in this BCR



Table 9 BCR 11 (Prairie Potholes U.S. portion only) *BCC 2008* list.<sup>11</sup>

Horned Grebe  
American Bittern  
Least Bittern  
Bald Eagle (b)  
Swainson's Hawk  
Peregrine Falcon (b)  
Yellow Rail  
Mountain Plover  
Solitary Sandpiper (nb)  
Upland Sandpiper  
Long-billed Curlew  
Hudsonian Godwit (nb)  
Marbled Godwit  
Buff-breasted Sandpiper (nb)  
Short-billed Dowitcher (nb)  
Black Tern  
Black-billed Cuckoo  
Short-eared Owl  
Red-headed Woodpecker  
Sprague's Pipit  
Grasshopper Sparrow  
Baird's Sparrow  
Nelson's Sharp-tailed Sparrow  
McCown's Longspur  
Smith's Longspur (nb)  
Chestnut-collared Longspur  
Dickcissel

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<sup>11</sup> (a) ESA candidate, (b) ESA delisted, (c) non-listed subspecies or population of Threatened or Endangered species, (d) MBTA protection uncertain or lacking, (nb) non-breeding in this BCR

Table 10 BCR 12 (Boreal Hardwood Transition U.S. portion only) *BCC 2008* list.<sup>12</sup>

Pied-billed Grebe  
Horned Grebe (nb)  
American Bittern  
Bald Eagle (b)  
Peregrine Falcon (b)  
Yellow Rail  
Solitary Sandpiper (nb)  
Upland Sandpiper  
Whimbrel (nb)  
Hudsonian Godwit (nb)  
Marbled Godwit (nb)  
Red Knot (*rufa* ssp.) (a) (nb)  
Buff-breasted Sandpiper (nb)  
Short-billed Dowitcher (nb)  
Black Tern  
Common Tern  
Red-headed Woodpecker  
Olive-sided Flycatcher  
Wood Thrush  
Golden-winged Warbler  
Canada Warbler  
Henslow's Sparrow  
Rusty Blackbird

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12 (a) ESA candidate, (b) ESA delisted, (c) non-listed subspecies or population of Threatened or Endangered species, (d) MBTA protection uncertain or lacking, (nb) non-breeding in this BCR

Table 11 BCR 13 (Lower Great Lakes/St. Lawrence Plain U.S. portion only) *BCC 2008* list.<sup>13</sup>

Pied-billed Grebe  
Horned Grebe (nb)  
American Bittern  
Least Bittern  
Black-crowned Night-Heron  
Bald Eagle (b)  
Peregrine Falcon (b)  
Solitary Sandpiper (nb)  
Lesser Yellowlegs (nb)  
Upland Sandpiper  
Whimbrel (nb)  
Hudsonian Godwit (nb)  
Marbled Godwit (nb)  
Red Knot (*rufa* ssp.) (a) (nb)  
Semipalmated Sandpiper (Eastern) (nb)  
Buff-breasted Sandpiper (nb)  
Black Tern  
Common Tern  
Black-billed Cuckoo  
Short-eared Owl (nb)  
Red-headed Woodpecker  
Wood Thrush  
Blue-winged Warbler  
Golden-winged Warbler  
Cerulean Warbler  
Canada Warbler  
Henslow's Sparrow

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13 (a) ESA candidate, (b) ESA delisted, (c) non-listed subspecies or population of Threatened or Endangered species, (d) MBTA protection uncertain or lacking, (nb) non-breeding in this BCR

Table 12 BCR 14 (Atlantic Northern Forests U.S. portion only) *BCC 2008* list.<sup>14</sup>

Red-throated Loon (nb)  
Pied-billed Grebe  
Horned Grebe (nb)  
Greater Shearwater (nb)  
Great Cormorant (nb)  
American Bittern  
Least Bittern  
Snowy Egret  
Bald Eagle (b)  
Peregrine Falcon (b)  
Yellow Rail  
Solitary Sandpiper (nb)  
Lesser Yellowlegs (nb)  
Upland Sandpiper  
Whimbrel (nb)  
Hudsonian Godwit (nb)  
Red Knot (*rufa* ssp.) (a) (nb)  
Semipalmated Sandpiper (Eastern) (nb)  
Purple Sandpiper (nb)  
Arctic Tern  
Olive-sided Flycatcher  
Bicknell's Thrush  
Wood Thrush  
Blue-winged Warbler  
Bay-breasted Warbler  
Canada Warbler  
Nelson's Sharp-tailed Sparrow  
Saltmarsh Sharp-tailed Sparrow  
Rusty Blackbird

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14 (a) ESA candidate, (b) ESA delisted, (c) non-listed subspecies or population of Threatened or Endangered species, (d) MBTA protection uncertain or lacking, (nb) non-breeding in this BCR

Table 13 BCR 15 (Sierra Nevada) *BCC 2008* list.<sup>15</sup>

Bald Eagle (b)  
Peregrine Falcon (b)  
Flammulated Owl  
Spotted Owl (*occidentalis* ssp.) (c)  
Black Swift  
Calliope Hummingbird  
Lewis's Woodpecker  
Williamson's Sapsucker  
Olive-sided Flycatcher  
Willow Flycatcher (c)  
Cassin's Finch

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15 (a) ESA candidate, (b) ESA delisted, (c) non-listed subspecies or population of Threatened or Endangered species, (d) MBTA protection uncertain or lacking, (nb) non-breeding in this BCR

Table 14 BCR 16 (Southern Rockies/Colorado Plateau) *BCC 2008* list.<sup>16</sup>

Gunnison Sage Grouse  
American Bittern  
Bald Eagle (b)  
Ferruginous Hawk  
Golden Eagle  
Peregrine Falcon (b)  
Prairie Falcon  
Snowy Plover (c)  
Mountain Plover  
Long-billed Curlew  
Yellow-billed Cuckoo (w. U.S. DPS) (a)  
Flammulated Owl  
Burrowing Owl  
Lewis's Woodpecker  
Willow Flycatcher (c)  
Gray Vireo  
Pinyon Jay  
Juniper Titmouse  
Veery  
Bendire's Thrasher  
Grace's Warbler  
Brewer's Sparrow  
Grasshopper Sparrow  
Chestnut-collared Longspur  
Black Rosy-Finch  
Brown-capped Rosy-Finch  
Cassin's Finch

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<sup>16</sup> (a) ESA candidate, (b) ESA delisted, (c) non-listed subspecies or population of Threatened or Endangered species, (d) MBTA protection uncertain or lacking, (nb) non-breeding in this BCR

Table 15 BCR 17 (Badlands and Prairies) *BCC 2008* list.<sup>17</sup>

Horned Grebe  
American Bittern  
Bald Eagle (b)  
Ferruginous Hawk  
Golden Eagle  
Peregrine Falcon (b)  
Prairie Falcon  
Yellow Rail  
Mountain Plover  
Upland Sandpiper  
Long-billed Curlew  
Marbled Godwit  
Black-billed Cuckoo  
Burrowing Owl  
Short-eared Owl  
Lewis's Woodpecker  
Red-headed Woodpecker  
Loggerhead Shrike  
Pinyon Jay  
Sage Thrasher  
Sprague's Pipit  
Brewer's Sparrow  
Sage Sparrow  
Grasshopper Sparrow  
Baird's Sparrow  
McCown's Longspur  
Chestnut-collared Longspur  
Dickcissel

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17 (a) ESA candidate, (b) ESA delisted, (c) non-listed subspecies or population of Threatened or Endangered species, (d) MBTA protection uncertain or lacking, (nb) non-breeding in this BCR

Table 16 BCR 18 (Shortgrass Prairie) *BCC 2008* list.<sup>18</sup>

Lesser Prairie-Chicken (a)  
Bald Eagle (b)  
Golden Eagle  
Prairie Falcon  
Snowy Plover (c)  
Mountain Plover  
Upland Sandpiper  
Long-billed Curlew  
Burrowing Owl  
Lewis's Woodpecker  
Willow Flycatcher (c)  
Bell's Vireo (c)  
Sprague's Pipit (nb)  
Lark Bunting  
McCown's Longspur  
Chestnut-collared Longspur

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18 (a) ESA candidate, (b) ESA delisted, (c) non-listed subspecies or population of Threatened or Endangered species, (d) MBTA protection uncertain or lacking, (nb) non-breeding in this BCR



Table 17 BCR 19 (Central Mixed-Grass Prairie) *BCC 2008* list.<sup>19</sup>

Lesser Prairie-Chicken (a)  
Little Blue Heron  
Mississippi Kite  
Bald Eagle (b)  
Swainson's Hawk  
Black Rail  
Snowy Plover (c)  
Mountain Plover (nb)  
Solitary Sandpiper (nb)  
Upland Sandpiper  
Long-billed Curlew  
Hudsonian Godwit (nb)  
Marbled Godwit (nb)  
Buff-breasted Sandpiper (nb)  
Short-billed Dowitcher (nb)  
Red-headed Woodpecker  
Scissor-tailed Flycatcher  
Loggerhead Shrike  
Bell's Vireo (c)  
Sprague's Pipit (nb)  
Cassin's Sparrow  
Lark Bunting  
Henslow's Sparrow  
Harris's Sparrow (nb)  
McCown's Longspur (nb)  
Smith's Longspur (nb)  
Chestnut-collared Longspur (nb)

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<sup>19</sup> (a) ESA candidate, (b) ESA delisted, (c) non-listed subspecies or population of Threatened or Endangered species, (d) MBTA protection uncertain or lacking, (nb) non-breeding in this BCR

Table 18 BCR 20 (Edwards Plateau) *BCC 2008* list.<sup>20</sup>

Bald Eagle (b)  
Peregrine Falcon (b)  
Mountain Plover (nb)  
Upland Sandpiper (nb)  
Long-billed Curlew (nb)  
Gray Vireo  
Rufous-crowned Sparrow  
Harris's Sparrow (nb)  
McCown's Longspur (nb)  
Chestnut-collared Longspur (nb)  
Orchard Oriole

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20 (a) ESA candidate, (b) ESA delisted, (c) non-listed subspecies or population of Threatened or Endangered species, (d) MBTA protection uncertain or lacking, (nb) non-breeding in this BCR

Table 19 BCR 21 (Oaks and Prairies) *BCC 2008* list.<sup>21</sup>

Little Blue Heron  
Swallow-tailed Kite  
Bald Eagle (b)  
Peregrine Falcon (b)  
Black Rail (nb)  
Upland Sandpiper  
Long-billed Curlew (nb)  
Hudsonian Godwit (nb)  
Buff-breasted Sandpiper (nb)  
Red-headed Woodpecker  
Scissor-tailed Flycatcher  
Loggerhead Shrike  
Bell's Vireo (c)  
Sprague's Pipit (nb)  
Swainson's Warbler  
Henslow's Sparrow (nb)  
Harris's Sparrow (nb)  
Smith's Longspur (nb)  
Orchard Oriole

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21 (a) ESA candidate, (b) ESA delisted, (c) non-listed subspecies or population of Threatened or Endangered species, (d) MBTA protection uncertain or lacking, (nb) non-breeding in this BCR

Table 20 BCR 22 (Eastern Tallgrass Prairie) *BCC 2008* list.<sup>22</sup>

Pied-billed Grebe	Dickcissel
Horned Grebe (nb)	Rusty Blackbird (nb)
American Bittern	
Least Bittern	
Black-crowned Night-Heron	
Bald Eagle (b)	
Peregrine Falcon (b)	
Black Rail	
Solitary Sandpiper (nb)	
Upland Sandpiper	
Whimbrel (nb)	
Hudsonian Godwit (nb)	
Marbled Godwit (nb)	
Red Knot ( <i>roselaari</i> ssp.) (nb)	
Red Knot ( <i>rufa</i> ssp.) (a) (nb)	
Buff-breasted Sandpiper (nb)	
Short-billed Dowitcher (nb)	
Black Tern	
Common Tern	
Black-billed Cuckoo	
Short-eared Owl (nb)	
Whip-poor-will	
Red-headed Woodpecker	
Northern Flicker	
Acadian Flycatcher	
Loggerhead Shrike	
Bell's Vireo (c)	
Bewick's Wren ( <i>bewickii</i> ssp.)	
Wood Thrush	
Blue-winged Warbler	
Cerulean Warbler	
Prothonotary Warbler	
Kentucky Warbler	
Field Sparrow	
Grasshopper Sparrow	
Henslow's Sparrow	
Smith's Longspur (nb)	

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22 (a) ESA candidate, (b) ESA delisted, (c) non-listed subspecies or population of Threatened or Endangered species, (d) MBTA protection uncertain or lacking, (nb) non-breeding in this BCR

Table 21 BCR 23 (Prairie Hardwood Transition) *BCC 2008* list.<sup>23</sup>

Pied-billed Grebe  
Horned Grebe (nb)  
American Bittern  
Bald Eagle (b)  
Peregrine Falcon (b)  
Yellow Rail  
Solitary Sandpiper (nb)  
Upland Sandpiper  
Whimbrel (nb)  
Hudsonian Godwit (nb)  
Marbled Godwit (nb)  
Red Knot (*roselaari* ssp.) (nb)  
Red Knot (*rufa* ssp.) (a) (nb)  
Buff-breasted Sandpiper (nb)  
Short-billed Dowitcher (nb)  
Black Tern  
Common Tern  
Black-billed Cuckoo  
Short-eared Owl (nb)  
Red-headed Woodpecker  
Willow Flycatcher (c)  
Marsh Wren  
Brown Thrasher  
Blue-winged Warbler  
Golden-winged Warbler  
Cerulean Warbler  
Henslow's Sparrow  
Dickcissel  
Bobolink  
Rusty Blackbird (nb)

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23 (a) ESA candidate, (b) ESA delisted, (c) non-listed subspecies or population of Threatened or Endangered species, (d) MBTA protection uncertain or lacking, (nb) non-breeding in this BCR

Table 22 BCR 24 (Central Hardwoods) *BCC 2008* list.<sup>24</sup>

Bald Eagle (b)  
Peregrine Falcon (b)  
Black Rail  
Solitary Sandpiper (nb)  
Buff-breasted Sandpiper (nb)  
Short-eared Owl (nb)  
Whip-poor-will  
Red-headed Woodpecker  
Loggerhead Shrike  
Bell's Vireo (c)  
Brown-headed Nuthatch  
Bewick's Wren (*bewickii* ssp.)  
Sedge Wren  
Wood Thrush  
Blue-winged Warbler  
Prairie Warbler  
Cerulean Warbler  
Worm-eating Warbler  
Swainson's Warbler  
Kentucky Warbler  
Bachman's Sparrow  
Henslow's Sparrow  
LeConte's Sparrow (nb)  
Smith's Longspur (nb)  
Painted Bunting  
Rusty Blackbird (nb)

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24 (a) ESA candidate, (b) ESA delisted, (c) non-listed subspecies or population of Threatened or Endangered species, (d) MBTA protection uncertain or lacking, (nb) non-breeding in this BCR

Table 23 BCR 25 (West Gulf Coastal Plain/Ouachitas) BCC 2008 list.<sup>25</sup>

Least Bittern  
Little Blue Heron  
Swallow-tailed Kite  
Bald Eagle (b)  
American Kestrel (*paulus* ssp.)  
Yellow Rail (nb)  
Solitary Sandpiper (nb)  
Hudsonian Godwit (nb)  
Buff-breasted Sandpiper (nb)  
Chuck-will's-widow  
Red-headed Woodpecker  
Loggerhead Shrike  
Brown-headed Nuthatch  
Bewick's Wren (*bewickii* ssp.)  
Wood Thrush  
Sprague's Pipit (nb)  
Prairie Warbler  
Cerulean Warbler  
Prothonotary Warbler  
Worm-eating Warbler  
Swainson's Warbler  
Louisiana Waterthrush  
Kentucky Warbler  
Bachman's Sparrow  
Henslow's Sparrow (nb)  
Smith's Longspur (nb)  
Painted Bunting  
Orchard Oriole

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25 (a) ESA candidate, (b) ESA delisted, (c) non-listed subspecies or population of Threatened or Endangered species, (d) MBTA protection uncertain or lacking, (nb) non-breeding in this BCR

Table 24 BCR 26 (Mississippi Alluvial Valley) *BCC 2008* list.<sup>26</sup>

American Bittern (nb)  
Least Bittern  
Swallow-tailed Kite  
Bald Eagle (b)  
Peregrine Falcon (b)  
Yellow Rail (nb)  
Black Rail  
Solitary Sandpiper (nb)  
Hudsonian Godwit (nb)  
Marbled Godwit (nb)  
Buff-breasted Sandpiper (nb)  
Short-billed Dowitcher (nb)  
Short-eared Owl (nb)  
Red-headed Woodpecker  
Sedge Wren (nb)  
Wood Thrush  
Cerulean Warbler  
Prothonotary Warbler  
Swainson's Warbler  
Kentucky Warbler  
Henslow's Sparrow (nb)  
LeConte's Sparrow (nb)  
Painted Bunting  
Dickcissel  
Rusty Blackbird (nb)  
Orchard Oriole

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26 (a) ESA candidate, (b) ESA delisted, (c) non-listed subspecies or population of Threatened or Endangered species, (d) MBTA protection uncertain or lacking, (nb) non-breeding in this BCR



Table 25 BCR 27 (Southeastern Coastal Plain) *BCC 2008* list.<sup>27</sup>

Red-throated Loon	Sandwich Tern
Black-capped Petrel (nb)	Black Skimmer
Audubon's Shearwater (nb)	Common Ground-Dove
American Bittern (nb)	Chuck-will's-widow
Least Bittern	Whip-poor-will
Roseate Spoonbill (nb)	Red-headed Woodpecker
Swallow-tailed Kite	Loggerhead Shrike
Bald Eagle (b)	Brown-headed Nuthatch
American Kestrel ( <i>paulus</i> ssp.)	Bewick's Wren ( <i>bewickii</i> ssp.)
Peregrine Falcon (b)	Sedge Wren (nb)
Yellow Rail (nb)	Wood Thrush
Black Rail	Blue-winged Warbler
Limpkin	Black-throated Green Warbler
Snowy Plover (c)	Prairie Warbler
Wilson's Plover	Cerulean Warbler
American Oystercatcher	Prothonotary Warbler
Solitary Sandpiper (nb)	Swainson's Warbler
Upland Sandpiper (nb)	Kentucky Warbler
Whimbrel (nb)	Bachman's Sparrow
Long-billed Curlew (nb)	Henslow's Sparrow
Marbled Godwit (nb)	LeConte's Sparrow (nb)
Red Knot ( <i>rufa</i> ssp.) (a) (nb)	Nelson's Sharp-tailed Sparrow (nb)
Semipalmated Sandpiper (Eastern) (nb)	Saltmarsh Sharp-tailed Sparrow (nb)
Buff-breasted Sandpiper (nb)	Seaside Sparrow (c)
Short-billed Dowitcher (nb)	Painted Bunting
Least Tern (c)	Rusty Blackbird (nb)
Gull-billed Tern	

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27 (a) ESA candidate, (b) ESA delisted, (c) non-listed subspecies or population of Threatened or Endangered species, (d) MBTA protection uncertain or lacking, (nb) non-breeding in this BCR

Table 26 BCR 28 (Appalachian Mountains) *BCC 2008* list.<sup>28</sup>

Bald Eagle (b)  
Peregrine Falcon (b)  
Upland Sandpiper  
Northern Saw-whet Owl (S. Appalachian breeding pop.)  
Whip-poor-will  
Red-headed Woodpecker  
Yellow-bellied Sapsucker (S. Appalachian breeding pop.)  
Olive-sided Flycatcher  
Loggerhead Shrike  
Black-capped Chickadee (S. Appalachian pop.)  
Bewick's Wren (*bewickii* ssp.)  
Sedge Wren (nb)  
Wood Thrush  
Blue-winged Warbler  
Golden-winged Warbler  
Prairie Warbler  
Cerulean Warbler  
Worm-eating Warbler  
Swainson's Warbler  
Louisiana Waterthrush  
Kentucky Warbler  
Canada Warbler  
Henslow's Sparrow  
Rusty Blackbird (nb)  
Red Crossbill (S. Appalachian pop.)

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28 (a) ESA candidate, (b) ESA delisted, (c) non-listed subspecies or population of Threatened or Endangered species, (d) MBTA protection uncertain or lacking, (nb) non-breeding in this BCR

Table 27 BCR 29 (Piedmont) *BCC 2008* list.<sup>29</sup>

Bald Eagle (b)  
Peregrine Falcon (b)  
Black Rail  
Short-eared Owl (nb)  
Whip-poor-will  
Loggerhead Shrike  
Brown-headed Nuthatch  
Bewick's Wren (*bewickii* ssp.)  
Sedge Wren  
Wood Thrush  
Blue-winged Warbler  
Prairie Warbler  
Cerulean Warbler  
Swainson's Warbler  
Kentucky Warbler  
Bachman's Sparrow  
Henslow's Sparrow  
Rusty Blackbird (nb)

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29 (a) ESA candidate, (b) ESA delisted, (c) non-listed subspecies or population of Threatened or Endangered species, (d) MBTA protection uncertain or lacking, (nb) non-breeding in this BCR

Table 28 BCR 30 (New England/Mid-Atlantic Coast) *BCC 2008* list.<sup>30</sup>

Red-throated Loon (nb)	Short-billed Dowitcher (nb)
Pied-billed Grebe	Least Tern (c)
Horned Grebe (nb)	Gull-billed Tern
Greater Shearwater (nb)	Black Skimmer
Audubon's Shearwater (nb)	Short-eared Owl (nb)
American Bittern	Whip-poor-will
Least Bittern	Red-headed Woodpecker
Snowy Egret	Loggerhead Shrike
Bald Eagle (b)	Brown-headed Nuthatch
Peregrine Falcon (b)	Sedge Wren
Black Rail	Wood Thrush
Wilson's Plover	Blue-winged Warbler
American Oystercatcher	Golden-winged Warbler
Solitary Sandpiper (nb)	Prairie Warbler
Lesser Yellowlegs (nb)	Cerulean Warbler
Upland Sandpiper	Worm-eating Warbler
Whimbrel (nb)	Kentucky Warbler
Hudsonian Godwit (nb)	Henslow's Sparrow
Marbled Godwit (nb)	Nelson's Sharp-tailed Sparrow
Red Knot ( <i>rufa</i> ssp.) (a) (nb)	Saltmarsh Sharp-tailed Sparrow
Semipalmated Sandpiper (Eastern) (nb)	Seaside Sparrow (c)
Purple Sandpiper (nb)	Rusty Blackbird (nb)
Buff-breasted Sandpiper (nb)	

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30 (a) ESA candidate, (b) ESA delisted, (c) non-listed subspecies or population of Threatened or Endangered species, (d) MBTA protection uncertain or lacking, (nb) non-breeding in this BCR

Table 29 BCR 31 (Peninsular Florida) *BCC 2008* list.<sup>31</sup>

Black-capped Petrel (nb)	Semipalmated Sandpiper (Eastern) (nb)
Audubon's Shearwater (nb)	Buff-breasted Sandpiper (nb)
Brown Booby (nb)	Short-billed Dowitcher (nb)
Magnificent Frigatebird	Least Tern (c)
American Bittern (nb)	Black Skimmer
Least Bittern	White-crowned Pigeon
Reddish Egret	Common Ground-Dove
Roseate Spoonbill	Mangrove Cuckoo
Swallow-tailed Kite	Smooth-billed Ani
Bald Eagle (b)	Chuck-will's-widow
Short-tailed Hawk	Red-headed Woodpecker
American Kestrel ( <i>paulus</i> ssp.)	Loggerhead Shrike
Peregrine Falcon (b)	Black-whiskered Vireo
Yellow Rail (nb)	Brown-headed Nuthatch
Black Rail	Yellow Warbler ( <i>gundlachi</i> ssp.)
Limpkin	Prairie Warbler
Snowy Plover (c)	Prothonotary Warbler
Wilson's Plover	Bachman's Sparrow
American Oystercatcher	Grasshopper Sparrow
Solitary Sandpiper (nb)	Henslow's Sparrow (nb)
Lesser Yellowlegs (nb)	Nelson's Sharp-tailed Sparrow (nb)
Whimbrel (nb)	Saltmarsh Sharp-tailed Sparrow (nb)
Long-billed Curlew (nb)	Seaside Sparrow (c)
Marbled Godwit (nb)	Painted Bunting (nb)
Red Knot ( <i>rufa</i> ssp.) (a) (nb)	

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31 (a) ESA candidate, (b) ESA delisted, (c) non-listed subspecies or population of Threatened or Endangered species, (d) MBTA protection uncertain or lacking, (nb) non-breeding in this BCR

Table 30 BCR 32 (Coastal California U.S. portion only) *BCC 2008* list.<sup>32</sup>

Black-footed Albatross (nb)	Spotted Owl ( <i>occidentalis</i> ssp.) (c)
Pink-footed Shearwater (nb)	Black Swift
Black-vented Shearwater (nb)	Costa's Hummingbird
Ashy Storm-Petrel	Allen's Hummingbird
Bald Eagle (b)	Lewis's Woodpecker
Peregrine Falcon (b)	Nuttall's Woodpecker
Yellow Rail (nb)	White-headed Woodpecker
Black Rail	Loggerhead Shrike
Snowy Plover (c)	Island Scrub-Jay
Mountain Plover (nb)	Yellow-billed Magpie
Black Oystercatcher	Oak Titmouse
Whimbrel (nb)	Cactus Wren
Long-billed Curlew (nb)	LeConte's Thrasher
Marbled Godwit (nb)	Yellow Warbler ( <i>brewsteri</i> ssp.)
Red Knot ( <i>roselaari</i> ssp.) (nb)	Common Yellowthroat ( <i>sinuosa</i> ssp.)
Short-billed Dowitcher (nb)	Spotted Towhee ( <i>clementae</i> ssp.)
Gull-billed Tern	Black-chinned Sparrow
Black Skimmer	Song Sparrow ( <i>graminea</i> ssp.)
Xantus's Murrelet (a)	Song Sparrow ( <i>maxillaris</i> ssp.)
Cassin's Auklet	Song Sparrow ( <i>pusillula</i> ssp.)
Yellow-billed Cuckoo (w. US DPS) (a)	Song Sparrow ( <i>samuelis</i> ssp.)
Flammulated Owl	Tricolored Blackbird
Burrowing Owl	Lawrence's Goldfinch

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32 (a) ESA candidate, (b) ESA delisted, (c) non-listed subspecies or population of Threatened or Endangered species, (d) MBTA protection uncertain or lacking, (nb) non-breeding in this BCR

Table 31 BCR 33 (Sonoran and Mojave Deserts U.S. portion only) *BCC 2008* list.<sup>33</sup>

Least Bittern  
Bald Eagle (b)  
Peregrine Falcon (b)  
Prairie Falcon  
Black Rail  
Snowy Plover (c)  
Mountain Plover (nb)  
Whimbrel (nb)  
Long-billed Curlew (nb)  
Marbled Godwit (nb)  
Red Knot (*roselaari* ssp.) (nb)  
Gull-billed Tern  
Black Skimmer  
Yellow-billed Cuckoo (w. US DPS) (a)  
Elf Owl  
Burrowing Owl  
Costa's Hummingbird  
Gila Woodpecker  
Gilded Flicker  
Bell's Vireo (c)  
Gray Vireo  
Bendire's Thrasher  
LeConte's Thrasher  
Lucy's Warbler  
Yellow Warbler (*sonorana* ssp.)  
Rufous-winged Sparrow  
Black-chinned Sparrow  
Lawrence's Goldfinch

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33 (a) ESA candidate, (b) ESA delisted, (c) non-listed subspecies or population of Threatened or Endangered species, (d) MBTA protection uncertain or lacking, (nb) non-breeding in this BCR

Table 32 BCR 34 (Sierra Madre Occidental U.S. portion only) *BCC 2008* list.<sup>34</sup>

Bald Eagle (b)  
Common Black-Hawk  
Peregrine Falcon (b)  
Mountain Plover (nb)  
Yellow-billed Cuckoo (w. U.S. DPS) (a)  
Flammulated Owl  
Elf Owl  
Blue-throated Hummingbird  
Elegant Trogon  
Lewis's Woodpecker  
Arizona Woodpecker  
Northern Beardless-Tyrannulet  
Buff-breasted Flycatcher  
Rose-throated Becard  
Bell's Vireo (c)  
Gray Vireo  
Pinyon Jay  
Bendire's Thrasher  
Sprague's Pipit (nb)  
Phainopepla  
Olive Warbler  
Lucy's Warbler  
Yellow Warbler (*sonorana* ssp.)  
Black-throated Gray Warbler  
Grace's Warbler  
Red-faced Warbler  
Canyon Towhee  
Rufous-winged Sparrow  
Botteri's Sparrow  
Five-striped Sparrow  
Black-chinned Sparrow  
Lark Bunting (nb)  
Grasshopper Sparrow (nb)  
Grasshopper Sparrow (*ammolegus* ssp.)  
Baird's Sparrow (nb)  
Chestnut-collared Longspur (nb)  
Varied Bunting

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34 (a) ESA candidate, (b) ESA delisted, (c) non-listed subspecies or population of Threatened or Endangered species, (d) MBTA protection uncertain or lacking, (nb) non-breeding in this BCR



Table 33 BCR 35 (Chihuahuan Desert U.S. portion only) *BCC 2008* lists.<sup>35</sup>

Bald Eagle (b)  
Common Black-Hawk  
Ferruginous Hawk (nb)  
Golden Eagle  
Peregrine Falcon (b)  
Snowy Plover (c)  
Mountain Plover  
Long-billed Curlew (nb)  
Yellow-billed Cuckoo (w. US DPS) (a)  
Flammulated Owl  
Elf Owl  
Burrowing Owl  
Lucifer Hummingbird  
Loggerhead Shrike  
Bell's Vireo (c)  
Gray Vireo  
Bendire's Thrasher  
Sprague's Pipit (nb)  
Virginia's Warbler  
Colima Warbler  
Yellow Warbler (*sonorana* ssp.)  
Grace's Warbler  
Red-faced Warbler  
Cassin's Sparrow  
Black-chinned Sparrow  
Lark Bunting (nb)  
Baird's Sparrow (nb)  
McCown's Longspur (nb)  
Chestnut-collared Longspur (nb)  
Varied Bunting  
Painted Bunting

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35 (a) ESA candidate, (b) ESA delisted, (c) non-listed subspecies or population of Threatened or Endangered species, (d) MBTA protection uncertain or lacking, (nb) non-breeding in this BCR

Table 34 BCR 36 (Tamaulipan Brushlands U.S. portion only) *BCC 2008 list*.<sup>36</sup>

Harris's Hawk  
Swainson's Hawk  
Snowy Plover (c)  
Mountain Plover (nb)  
Solitary Sandpiper (nb)  
Lesser Yellowlegs (nb)  
Long-billed Curlew (nb)  
Gull-billed Tern  
Red-billed Pigeon  
Green Parakeet (d)  
Red-crowned Parrot (d)  
Elf Owl  
Burrowing Owl  
Buff-bellied Hummingbird  
Northern Beardless-Tyrannulet  
Rose-throated Becard  
Bell's Vireo (c)  
Verdin  
Curve-billed Thrasher  
Sprague's Pipit (nb)  
Tropical Parula  
Summer Tanager  
White-collared Seedeater  
Cassin's Sparrow  
Lark Bunting (nb)  
Chestnut-collared Longspur (nb)  
Varied Bunting  
Painted Bunting  
Dickcissel  
Hooded Oriole  
Altamira Oriole  
Audubon's Oriole

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36 (a) ESA candidate, (b) ESA delisted, (c) non-listed subspecies or population of Threatened or Endangered species, (d) MBTA protection uncertain or lacking, (nb) non-breeding in this BCR

Table 35 BCR 37 (Gulf Coastal Prairie U.S. portion only) *BCC 2008* list.<sup>37</sup>

Audubon's Shearwater (nb)	Red Knot ( <i>rufa</i> ssp.) (a) (nb)
Band-rumped Storm-Petrel (nb)	Buff-breasted Sandpiper (nb)
American Bittern	Short-billed Dowitcher (nb)
Least Bittern	Least Tern (c)
Reddish Egret	Gull-billed Tern
Swallow-tailed Kite	Sandwich Tern
Bald Eagle (b)	Black Skimmer
White-tailed Hawk	Short-eared Owl (nb)
Peregrine Falcon (b) (nb)	Loggerhead Shrike
Yellow Rail (nb)	Sedge Wren (nb)
Black Rail	Sprague's Pipit (nb)
Snowy Plover (c)	Prothonotary Warbler
Wilson's Plover	Swainson's Warbler
Mountain Plover (nb)	Botteri's Sparrow
American Oystercatcher	Grasshopper Sparrow
Solitary Sandpiper (nb)	Henslow's Sparrow (nb)
Lesser Yellowlegs (nb)	LeConte's Sparrow (nb)
Upland Sandpiper (nb)	Nelson's Sharp-tailed Sparrow (nb)
Whimbrel (nb)	Seaside Sparrow (c)
Long-billed Curlew	Painted Bunting
Hudsonian Godwit (nb)	Dickcissel
Marbled Godwit (nb)	
Red Knot ( <i>roselaari</i> ssp.) (nb)	

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37 (a) ESA candidate, (b) ESA delisted, (c) non-listed subspecies or population of Threatened or Endangered species, (d) MBTA protection uncertain or lacking, (nb) non-breeding in this BCR

Table 36 BCR 67 (Hawaii) *BCC 2008* list.<sup>38</sup>

Laysan Albatross  
Black-footed Albatross  
Christmas Shearwater  
Band-rumped Storm-Petrel (a)  
Tristram's Storm-Petrel  
Bristle-thighed Curlew (nb)  
Short-eared Owl  
`Elepaio (d)  
`Oma`o  
Hawai`i `Amakihi (d)  
Oahu `Amakihi (d)  
Kaua`i `Amakihi (d)  
`Anianiau (d)  
`Akikiki (a,d)  
Maui `Alauahio (d)  
`Akeke`e (d)  
`I`iwi (d)  
`Apapane (d)

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38 (a) ESA candidate, (b) ESA delisted, (c) non-listed subspecies or population of Threatened or Endangered species, (d) MBTA protection uncertain or lacking, (nb) non-breeding in this BCR

Table 37 Other U.S. Pacific Islands *BCC 2008* list.<sup>39</sup>

Laysan Albatross  
Black-footed Albatross  
Herald Petrel  
Tahiti Petrel (d)  
Phoenix Petrel (d)  
Christmas Shearwater  
Audubon's Shearwater  
Polynesian Storm-Petrel (d)  
Spotless Crake (American Samoa pop.) (a,d)  
Purple Swamphen  
Bristle-thighed Curlew (nb)  
Friendly Ground-Dove (American Samoa DPS) (a,d)  
Micronesian Myzomela (d)  
Rufous Fantail (*mariae* ssp.) (d)  
Rufous Fantail (*saipanensis* ssp.) (d)  
Fiji Shrikebill (d)  
Tinian Monarch (d)  
Bridled White-eye (*saypani* ssp.) (c,d)  
Golden White-eye (d)  
Micronesian Starling (*guami* ssp.) (d)  
Polynesian Starling (d)

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39 (a) ESA candidate, (b) ESA delisted, (c) non-listed subspecies or population of Threatened or Endangered species, (d) MBTA protection uncertain or lacking, (nb) non-breeding in this BCR

Table 38 U.S. Caribbean Islands (Puerto Rico and U.S. Virgin Islands) *BCC 2008* list.<sup>40</sup>

West Indian Whistling-Duck  
White-cheeked Pintail  
Masked Duck  
Ruddy Duck (*jamaicensis* ssp.)  
Audubon's Shearwater  
Masked Booby  
Brown Booby  
Red-footed Booby  
Magnificent Frigatebird  
Least Bittern  
American Flamingo  
Black Rail  
Yellow-breasted Crake  
Caribbean Coot  
Limpkin  
Snowy Plover (c)  
Wilson's Plover  
American Oystercatcher  
Red Knot (*rufa* ssp.) (a) (nb)  
Semipalmated Sandpiper (Eastern) (nb)  
White-crowned Pigeon  
Bridled Quail-Dove  
Antillean Mango (d)  
Loggerhead Kingbird  
Puerto Rican Vireo  
Elfin-woods Warbler (a)  
Greater Antillean Oriole

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40 (a) ESA candidate, (b) ESA delisted, (c) non-listed subspecies or population of Threatened or Endangered species, (d) MBTA protection uncertain or lacking, (nb) non-breeding in this BCR

Table 39 USFWS Region 1 (Pacific Region) *BCC 2008* list.<sup>41</sup>

Greater Sage-Grouse (Columbia Basin DPS)(a)	Rufous Hummingbird
Black-footed Albatross	Lewis's Woodpecker
Herald Petrel	Williamson's Sapsucker
Tahiti Petrel (d)	White-headed Woodpecker
Phoenix Petrel (d)	Olive-sided Flycatcher
Pink-footed Shearwater (nb)	Willow Flycatcher (c)
Polynesian Storm-Petrel (d)	Loggerhead Shrike
Band-rumped Storm-Petrel (a)	Pinyon Jay
Tristram's Storm-Petrel	Rufous Fantail ( <i>mariae</i> ssp.) (d)
Bald Eagle (b)	`Elepaio (d)
Swainson's Hawk	Tinian Monarch (d)
Ferruginous Hawk	Horned Lark ( <i>strigata</i> ssp.) (a)
Peregrine Falcon (b)	`Oma`o
Yellow Rail	Golden White-eye (d)
Spotless Crake (American Samoa pop.) (a,d)	Sage Thrasher
Purple Swamphen	Virginia's Warbler
Snowy Plover (c)	Green-tailed Towhee
Black Oystercatcher	Brewer's Sparrow
Whimbrel (nb)	Oregon Vesper Sparrow ( <i>affinis</i> ssp.)
Bristle-thighed Curlew (nb)	Sage Sparrow
Long-billed Curlew	Black Rosy-Finch
Marbled Godwit (nb)	Cassin's Finch
Red Knot ( <i>roselaari</i> ssp.) (nb)	Hawai`i `Amakihi (d)
Short-billed Dowitcher (nb)	Oahu `Amakihi (d)
Friendly Ground-Dove (American Samoa DPS) (a,d)	Kaua`i `Amakihi (d)
Yellow-billed Cuckoo (w. US DPS) (a)	`Anianiau (d)
Flammulated Owl	`Akikiki (a,d)
Short-eared Owl	Maui `Alauahio (d)
Black Swift	`Akeke`e (d)
Calliope Hummingbird	`I`iwi (d)
	`Apapane (d)

41 (a) ESA candidate, (b) ESA delisted, (c) non-listed subspecies or population of Threatened or Endangered species, (d) MBTA protection uncertain or lacking, (nb) non-breeding in this BCR

Table 40 USFWS Region 2 (Southwest Region) *BCC 2008* list.<sup>42</sup>

Lesser Prairie-Chicken (a)	Gray Vireo
Reddish Egret	Pinyon Jay
Swallow-tailed Kite	Brown-headed Nuthatch
Bald Eagle (b)	Sedge Wren (nb)
Common Black-Hawk	Wood Thrush
White-tailed Hawk	Bendire's Thrasher
Golden Eagle	LeConte's Thrasher
Peregrine Falcon (b)	Sprague's Pipit (nb)
Yellow Rail (nb)	Olive Warbler
Black Rail	Colima Warbler
Snowy Plover (c)	Lucy's Warbler
Wilson's Plover	Yellow Warbler ( <i>sonorana</i> ssp.)
Mountain Plover	Grace's Warbler
American Oystercatcher	Prairie Warbler
Solitary Sandpiper (nb)	Cerulean Warbler
Lesser Yellowlegs (nb)	Prothonotary Warbler
Upland Sandpiper	Worm-eating Warbler
Whimbrel (nb)	Swainson's Warbler
Long-billed Curlew	Kentucky Warbler
Hudsonian Godwit (nb)	Red-faced Warbler
Red Knot ( <i>roselaari</i> ssp.) (nb)	Rufous-winged Sparrow
Red Knot ( <i>rufa</i> ssp.) (a) (nb)	Bachman's Sparrow
Buff-breasted Sandpiper (nb)	Botteri's Sparrow
Short-billed Dowitcher (nb)	Five-striped Sparrow
Gull-billed Tern	Black-chinned Sparrow
Sandwich Tern	Lark Bunting
Black Skimmer	Grasshopper Sparrow ( <i>ammolegus</i> ssp.)
Yellow-billed Cuckoo (w. U.S. DPS) (a)	Baird's Sparrow (nb)
Flammulated Owl	Henslow's Sparrow (nb)
Elf Owl	LeConte's Sparrow (nb)
Burrowing Owl	Nelson's Sharp-tailed Sparrow (nb)
Lucifer Hummingbird	Seaside Sparrow (c)
Costa's Hummingbird	Harris's Sparrow (nb)
Lewis's Woodpecker	McCown's Longspur (nb)
Red-headed Woodpecker	Smith's Longspur (nb)
Gilded Flicker	Chestnut-collared Longspur (nb)
Northern Beardless-Tyrannulet	Varied Bunting
Buff-breasted Flycatcher	Painted Bunting
Loggerhead Shrike	Rusty Blackbird (nb)
Bell's Vireo (c)	Audubon's Oriole

42 (a) ESA candidate, (b) ESA delisted, (c) non-listed subspecies or population of Threatened or Endangered species, (d) MBTA protection uncertain or lacking, (nb) non-breeding in this BCR



Table 41 USFWS Region 3 (Great Lakes-Big Rivers Region) *BCC 2008* list.<sup>43</sup>

Pied-billed Grebe	Whip-poor-will
Horned Grebe (nb)	Red-headed Woodpecker
American Bittern	Olive-sided Flycatcher
Least Bittern	Loggerhead Shrike
Bald Eagle (b)	Bell's Vireo (c)
Swainson's Hawk	Bewick's Wren ( <i>bewickii</i> ssp.)
Peregrine Falcon (b)	Wood Thrush
Yellow Rail	Blue-winged Warbler
Black Rail	Golden-winged Warbler
Solitary Sandpiper (nb)	Prairie Warbler
Upland Sandpiper	Cerulean Warbler
Whimbrel (nb)	Worm-eating Warbler
Hudsonian Godwit (nb)	Swainson's Warbler
Marbled Godwit	Kentucky Warbler
Red Knot ( <i>roselaari</i> ssp.) (nb)	Canada Warbler
Red Knot ( <i>rufa</i> ssp.) (a) (nb)	Bachman's Sparrow
Buff-breasted Sandpiper (nb)	Henslow's Sparrow
Short-billed Dowitcher (nb)	Nelson's Sharp-tailed Sparrow
Black Tern	Smith's Longspur (nb)
Common Tern	Chestnut-collared Longspur
Black-billed Cuckoo	Dickcissel
Short-eared Owl (nb)	Rusty Blackbird

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43 (a) ESA candidate, (b) ESA delisted, (c) non-listed subspecies or population of Threatened or Endangered species, (d) MBTA protection uncertain or lacking, (nb) non-breeding in this BCR

Table 42 USFWS Region 4 (Southeast Region) mainland *BCC 2008* list.<sup>44</sup>

Red-throated Loon	Mangrove Cuckoo
Black-capped Petrel	Smooth-billed Ani
Audubon's Shearwater	Short-eared Owl
Band-rumped Storm-Petrel (a) (Hawaii DPS is candidate; Atlantic pop. is not)	Chuck-will's-widow
American Bittern	Red-headed Woodpecker
Least Bittern	Olive-sided Flycatcher
Reddish Egret	Loggerhead Shrike
Swallow-tailed Kite	Black-whiskered Vireo
Bald Eagle (b)	Brown-headed Nuthatch
Short-tailed Hawk	Bewick's Wren ( <i>bewickii</i> ssp.)
American Kestrel ( <i>paulus</i> ssp.)	Sedge Wren
Peregrine Falcon (b)	Wood Thrush
Yellow Rail	Sprague's Pipit
Black Rail	Blue-winged Warbler
Limpkin	Golden-winged Warbler
Snowy Plover (c)	Prairie Warbler
Wilson's Plover	Cerulean Warbler
American Oystercatcher	Prothonotary Warbler
Solitary Sandpiper (nb)	Worm-eating Warbler
Whimbrel (nb)	Swainson's Warbler
Long-billed Curlew (nb)	Kentucky Warbler
Hudsonian Godwit (nb)	Canada Warbler
Marbled Godwit (nb)	Bachman's Sparrow
Red Knot ( <i>rufa</i> ssp.) (nb)	Henslow's Sparrow
Semipalmated Sandpiper (Eastern) (nb)	LeConte's Sparrow
Buff-breasted Sandpiper (nb)	Nelson's Sharp-tailed Sparrow
Short-billed Dowitcher (nb)	Saltmarsh Sharp-tailed Sparrow
Least Tern (c)	Seaside Sparrow (c)
Gull-billed Tern	Smith's Longspur
Black Skimmer	Painted Bunting
White-crowned Pigeon	Rusty Blackbird

44 (a) ESA candidate, (b) ESA delisted, (c) non-listed subspecies or population of Threatened or Endangered species, (d) MBTA protection uncertain or lacking, (nb) non-breeding in this BCR

Table 43 USFWS Region 4 (Puerto Rico and U.S. Virgin Islands) *BCC 2008* list.<sup>45</sup>

West Indian Whistling-Duck  
White-cheeked Pintail  
Masked Duck  
Ruddy Duck (*jamaicensis* ssp. only)  
Audubon's Shearwater  
Masked Booby  
Brown Booby  
Red-footed Booby  
Magnificent Frigatebird  
Least Bittern  
American Flamingo  
Black Rail  
Yellow-breasted Crake  
Caribbean Coot  
Limpkin  
Snowy Plover (c)  
Wilson's Plover  
American Oystercatcher  
Red Knot (*rufa* ssp.) (a) (nb)  
Semipalmated Sandpiper (Eastern) (nb)  
White-crowned Pigeon  
Bridled Quail-Dove  
Antillean Mango (d)  
Loggerhead Kingbird  
Puerto Rican Vireo  
Elfin-woods Warbler (a)  
Greater Antillean Oriole

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45 (a) ESA candidate, (b) ESA delisted, (c) non-listed subspecies or population of Threatened or Endangered species, (d) MBTA protection uncertain or lacking, (nb) non-breeding in this BCR

Table 44 USFWS Region 5 (Northeast Region) *BCC 2008* list.<sup>46</sup>

Red-throated Loon (nb)	Gull-billed Tern
Pied-billed Grebe	Arctic Tern
Horned Grebe (nb)	Black Skimmer
Greater Shearwater (nb)	Short-eared Owl (nb)
Audubon's Shearwater (nb)	Whip-poor-will
American Bittern	Red-headed Woodpecker
Least Bittern	Olive-sided Flycatcher
Snowy Egret	Loggerhead Shrike
Bald Eagle (b)	Bewick's Wren ( <i>bewickii</i> ssp.)
Peregrine Falcon (b)	Sedge Wren
Yellow Rail	Bicknell's Thrush
Black Rail	Wood Thrush
Wilson's Plover	Blue-winged Warbler
American Oystercatcher	Golden-winged Warbler
Solitary Sandpiper (nb)	Prairie Warbler
Lesser Yellowlegs (nb)	Bay-breasted Warbler
Upland Sandpiper	Cerulean Warbler
Whimbrel (nb)	Worm-eating Warbler
Hudsonian Godwit (nb)	Swainson's Warbler
Marbled Godwit (nb)	Kentucky Warbler
Red Knot ( <i>rufa</i> ssp.) (a) (nb)	Canada Warbler
Semipalmated Sandpiper (Eastern) (nb)	Henslow's Sparrow
Purple Sandpiper (nb)	Nelson's Sharp-tailed Sparrow
Buff-breasted Sandpiper (nb)	Saltmarsh Sharp-tailed Sparrow
Short-billed Dowitcher (nb)	Seaside Sparrow (c)
Least Tern (c)	Rusty Blackbird

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46 (a) ESA candidate, (b) ESA delisted, (c) non-listed subspecies or population of Threatened or Endangered species, (d) MBTA protection uncertain or lacking, (nb) non-breeding in this BCR

Table 45 USFWS Region 6 (Mountain-Prairie Region) *BCC 2008* list.<sup>47</sup>

Gunnison Sage-Grouse	Short-eared Owl
Lesser Prairie-Chicken (a)	Lewis's Woodpecker
Horned Grebe	Red-headed Woodpecker
American Bittern	Willow Flycatcher (c)
Least Bittern	Loggerhead Shrike
Bald Eagle (b)	Bell's Vireo (c)
Ferruginous Hawk	Gray Vireo
Golden Eagle	Pinyon Jay
Peregrine Falcon (b)	Bewick's Wren ( <i>bewickii</i> ssp.)
Prairie Falcon	Sage Thrasher
Yellow Rail	Sprague's Pipit
Black Rail	Sage Sparrow
Snowy Plover (c)	Grasshopper Sparrow
Mountain Plover	Baird's Sparrow
Upland Sandpiper	Henslow's Sparrow
Long-billed Curlew	Nelson's Sharp-tailed Sparrow
Hudsonian Godwit (nb)	McCown's Longspur
Marbled Godwit	Smith's Longspur
Buff-breasted Sandpiper (nb)	Chestnut-collared Longspur
Short-billed Dowitcher (nb)	Black Rosy-Finch
Black-billed Cuckoo	Brown-capped Rosy-Finch
Flammulated Owl	Cassin's Finch
Burrowing Owl	

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47 (a) ESA candidate, (b) ESA delisted, (c) non-listed subspecies or population of Threatened or Endangered species, (d) MBTA protection uncertain or lacking, (nb) non-breeding in this BCR

Table 46 USFWS Region 7 (Alaska Region) *BCC 2008* list.<sup>48</sup>

Red-throated Loon  
Yellow-billed Loon  
Horned Grebe  
Laysan Albatross  
Black-footed Albatross  
Red-faced Cormorant  
Pelagic Cormorant  
Northern Goshawk (*laingi* ssp.)  
Peregrine Falcon (b)  
Black Oystercatcher  
Solitary Sandpiper  
Lesser Yellowlegs  
Whimbrel  
Bristle-thighed Curlew  
Hudsonian Godwit  
Bar-tailed Godwit  
Marbled Godwit  
Red Knot (*roselaari* ssp.)  
Rock Sandpiper (*ptilocnemis* spp.)  
Dunlin (*arcticola* ssp.)  
Buff-breasted Sandpiper  
Short-billed Dowitcher  
Red-legged Kittiwake  
Aleutian Tern  
Arctic Tern  
Marbled Murrelet (c)  
Kittlitz's Murrelet (a)  
Whiskered Auklet  
Rufous Hummingbird  
Olive-sided Flycatcher  
Smith's Longspur  
McKay's Bunting  
Rusty Blackbird

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48 (a) ESA candidate, (b) ESA delisted, (c) non-listed subspecies or population of Threatened or Endangered species, (d) MBTA protection uncertain or lacking, (nb) non-breeding in this BCR

Table 47 USFWS Region 8 ( California and Nevada) *BCC 2008* list.<sup>49</sup>

Black-footed Albatross	Olive-sided Flycatcher
Pink-footed Shearwater (nb)	Willow Flycatcher (c)
Ashy Storm-Petrel	Loggerhead Shrike
Bald Eagle (b)	Bell's Vireo (c)
Peregrine Falcon (b)	Gray Vireo
Yellow Rail	Island Scrub-Jay
Black Rail	Pinyon Jay
Snowy Plover (c)	Yellow-billed Magpie
Mountain Plover (nb)	Oak Titmouse
Black Oystercatcher	Cactus Wren
Whimbrel (nb)	Sage Thrasher
Long-billed Curlew (nb)	LeConte's Thrasher
Marbled Godwit (nb)	Virginia's Warbler
Red Knot ( <i>roselaari</i> ssp.) (nb)	Yellow Warbler ( <i>brewsteri</i> ssp.)
Short-billed Dowitcher (nb)	Yellow Warbler ( <i>sonorana</i> ssp.)
Gull-billed Tern	Common Yellowthroat ( <i>sinuosa</i> ssp.)
Black Skimmer	Green-tailed Towhee
Xantus's Murrelet (a)	Spotted Towhee ( <i>clementae</i> ssp.)
Yellow-billed Cuckoo (w. US DPS) (a)	Brewer's Sparrow
Flammulated Owl	Black-chinned Sparrow
Burrowing Owl	Sage Sparrow
Spotted Owl ( <i>occidentalis</i> ssp.) (c)	Song Sparrow ( <i>graminea</i> ssp.)
Black Swift	Song Sparrow ( <i>maxillaris</i> ssp.)
Costa's Hummingbird	Song Sparrow ( <i>pusillula</i> ssp.)
Calliope Hummingbird	Song Sparrow ( <i>samuelis</i> ssp.)
Allen's Hummingbird	Tricolored Blackbird
Lewis's Woodpecker	Lawrence's Goldfinch
Williamson's Sapsucker	

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49 (a) ESA candidate, (b) ESA delisted, (c) non-listed subspecies or population of Threatened or Endangered species, (d) MBTA protection uncertain or lacking, (nb) non-breeding in this BCR

Table 48 National (including Caribbean and Pacific Island "Territories") BCC 2008 list.<sup>50</sup>

West Indian Whistling-Duck	Bar-tailed Godwit
Greater Sage-Grouse (Colum. Basin DPS) (a)	Marbled Godwit
Gunnison Sage-Grouse	Red Knot ( <i>roselaari</i> ssp.)
Lesser Prairie-Chicken (a)	Red Knot ( <i>rufa</i> ssp.) (a) (nb)
Yellow-billed Loon	Semipalmated Sandpiper (Eastern) (nb)
Black-footed Albatross	Purple Sandpiper (nb)
Tahiti Petrel (d)	Rock Sandpiper ( <i>ptilocnemis</i> ssp.)
Phoenix Petrel (d)	Dunlin ( <i>arcticola</i> spp.)
Black-capped Petrel	Buff-breasted Sandpiper
Pink-footed Shearwater	Short-billed Dowitcher
Christmas Shearwater	Red-legged Kittiwake
Audubon's Shearwater	Aleutian Tern
Polynesian Storm-Petrel (d)	Least Tern (c)
Ashy Storm-Petrel	Gull-billed Tern
Band-rumped Storm-Petrel (a) (Hawaii DPS is candidate; Atlantic pop. is not)	Black Skimmer
Reddish Egret	Marbled Murrelet (c)
Swallow-tailed Kite	Kittlitz's Murrelet (a)
Bald Eagle (b)	Xantus's Murrelet (a)
Swainson's Hawk	White-crowned Pigeon
Peregrine Falcon (b)	Friendly Ground-Dove (Am. Samoa) (a,d)
Yellow Rail	Green Parakeet (d)
Black Rail	Red-crowned Parrot (d)
Spotless Crake (Am. Samoa pop.) (a, d)	Yellow-billed Cuckoo (w. U.S. DPS) (a)
Caribbean Coot	Mangrove Cuckoo
Limpkin	Flammulated Owl
Snowy Plover (c)	Elf Owl
Wilson's Plover	Spotted Owl ( <i>occidentalis</i> ssp.) (c)
Mountain Plover	Short-eared Owl
American Oystercatcher	Black Swift
Black Oystercatcher	Costa's Hummingbird
Solitary Sandpiper	Calliope Hummingbird
Lesser Yellowlegs	Rufous Hummingbird
Upland Sandpiper	Allen's Hummingbird
Whimbrel	Elegant Trogon
Bristle-thighed Curlew	Lewis's Woodpecker
Long-billed Curlew	Red-headed Woodpecker
Hudsonian Godwit	Table 48 Continued

50 (a) ESA candidate, (b) ESA delisted, (c) non-listed subspecies or population of Threatened or Endangered species, (d) MBTA protection uncertain or lacking, (nb) non-breeding in this BCR



Nuttall's Woodpecker  
Arizona Woodpecker  
White-headed Woodpecker  
Olive-sided Flycatcher  
Willow Flycatcher (c)  
Loggerhead Shrike  
Puerto Rican Vireo  
Bell's Vireo (c)  
Gray Vireo  
Island Scrub-Jay  
Pinyon Jay  
Yellow-billed Magpie  
Rufous Fantail (*mariae* ssp.) (d)  
`Elepaio (d)  
Tinian Monarch (d)  
Horned Lark (*strigata* ssp.) (a)  
Oak Titmouse  
Brown-headed Nuthatch  
Bewick's Wren (*bewickii* ssp.)  
`Omao  
Bicknell's Thrush  
Wood Thrush  
Golden White-eye (d)  
Bendire's Thrasher  
LeConte's Thrasher  
Sprague's Pipit  
Blue-winged Warbler  
Golden-winged Warbler  
Virginia's Warbler  
Colima Warbler  
Lucy's Warbler  
Grace's Warbler  
Prairie Warbler  
Bay-breasted Warbler  
Cerulean Warbler  
Elfin-woods Warbler (a)  
Prothonotary Warbler  
Worm-eating Warbler  
Swainson's Warbler  
Kentucky Warbler  
Canada Warbler  
Red-faced Warbler

Rufous-winged Sparrow

Bachman's Sparrow  
Five-striped Sparrow  
Brewer's Sparrow  
Black-chinned Sparrow  
Baird's Sparrow  
Henslow's Sparrow  
Nelson's Sharp-tailed Sparrow  
Saltmarsh Sharp-tailed Sparrow  
Seaside Sparrow (c)  
Harris's Sparrow  
McCown's Longspur  
Smith's Longspur  
McKay's Bunting  
Varied Bunting  
Painted Bunting  
Dickcissel  
Tricolored Blackbird  
Rusty Blackbird  
Audubon's Oriole  
Black Rosy-Finch  
Brown-capped Rosy-Finch  
Lawrence's Goldfinch  
Hawai'i `Amakihi (d)  
Oahu `Amakihi (d)  
Kaua'i `Amakihi (d)  
`Anianiau (d)  
`Akikiki (a,d)  
Maui `Alauahio (d)  
`Akek`ee (d)  
`Iiwi (d)  
`Apapane (d)

## Appendix B

Matrix of Species on BCR, USFWS Region, and National Lists in *BCC 2008*,  
Arranged Taxonomically (according to American Ornithologists' Union 48<sup>th</sup> Checklist)<sup>51</sup>

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51 (a) ESA candidate, (b) ESA delisted, (c) non-listed subspecies or population of threatened or endangered species, (d) MBTA protection uncertain or lacking

























	Bird Conservation Regions																										USFWS Regions								National												
	1	2	3	4	5	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	U.S. Pacif. Islds.	U.S. Carib. Islds.	1	2	3	4	a	5	6		7	8										
	'x' indicates species is included for breeding period (plus non-breeding where species occurs year-round), 'nb' indicates species is included only for non-breeding period																										(4a = Puerto Rico & USVI)																				
Totals	13	22	10	14	30	28	22	27	23	27	29	11	27	28	16	26	11	19	39	30	26	27	26	53	25	18	45	48	45	28	37	31	31	42	18	20	27	61	78	45	61	27	51	45	34	55	147

(a) ESA candidate, (b) ESA delisted, (c) non-listed subspecies or population of ESA listed species, (d) MBTA protection uncertain or lacking

## APPENDIX C

Index of Scientific Names of Species Appearing in the BCC 2008 Lists  
(Tables 2-48), Arranged Alphabetically by Common Name

Common Name	Scientific Name
Akekee	<i>Loxops caeruleirostris</i>
Akikiki	<i>Oreomystis bairdi</i>
Alauahio, Maui	<i>Paroreomyza maculata</i>
Albatross, Black-footed	<i>Phoebastria nigripes</i>
Albatross, Laysan	<i>Phoebastria immutabilis</i>
Amakihi, Hawaii	<i>Hemignathus virens</i>
Amakihi, Kauai	<i>Hemignathus kauaiensis</i>
Amakihi, Oahu	<i>Hemignathus flavus</i>
Ani, Smooth-billed	<i>Crotophaga ani</i>
Anianiau	<i>Hemignathus pan/us</i>
Apapane	<i>Mimatione sanguinea</i>
Auklet, Cassin's	<i>Ptychoramphus aleuticus</i>
Auklet, Whiskered	<i>Aethia pygmaea</i>
Beardless-Tyrannulet, Northern	<i>Camptostoma imberbe</i>
Becard, Rose-throated	<i>Pachyramphus aglaiae</i>
Bittern, American	<i>Botaurus lentiginosus</i>
Bittern, Least	<i>Ixobrychus exilis</i>
Blackbird, Rusty	<i>Euphagus carolinus</i>
Blackbird, Tricolored	<i>Agelaius tricolor</i>
Black-Hawk, Common	<i>Buteogallus anthracinus</i>
Bobolink	<i>Dolichonyx oryzivorus</i>
Booby, Brown	<i>Sula leucogaster</i>
Booby, Masked	<i>Sula dactylatra</i>
Booby, Red-footed	<i>Sula sula</i>
Bunting, Lark	<i>Calamospiza melanocorys</i>
Bunting, McKay's	<i>Plectrophenax hyperboreus</i>
Bunting, Painted	<i>Passerina ciris</i>
Bunting, Varied	<i>Passerina versicolor</i>
Chickadee, Black-capped	<i>Poecile atricapillus</i>
Chuck-will's-widow	<i>Caprimulgus carolinensis</i>
Coot, Caribbean	<i>Fulica caribaea</i>
Cormorant, Great	<i>Phalacrocorax carbo</i>
Cormorant, Red-faced	<i>Phalacrocorax urile</i>
Cormorant, Pelagic	<i>Phalacrocorax pelagicus pelagicus</i>
Crake, Spotless	<i>Porzana tabuensis</i>
Crake, Yellow-breasted	<i>Porzana flaviventer</i>
Crossbill, Red	<i>Loxia curvirostra</i>
Cuckoo, Black-billed	<i>Coccyzus erythrophthalmus</i>
Cuckoo, Mangrove	<i>Coccyzus minor</i>
Cuckoo, Yellow-billed	<i>Coccyzus americanus</i>
Curlew, Bristle-thighed	<i>Numenius tahitiensis</i>
Curlew, Long-billed	<i>Numenius americanus</i>
Dickcissel	<i>Spiza americana</i>
Dowitcher, Short-billed	<i>Limnodromus griseus</i>
Duck, Masked	<i>Nomonyx dominicus</i>



Duck, Ruddy	<i>Oxyura jamaicensis jamaicensis</i>
Dunlin	<i>Calidris alpina arcticola</i>
Eagle, Bald	<i>Haliaeetus leucocephalus</i>
Eagle, Golden	<i>Aquila chrysaetos</i>
Egret, Reddish	<i>Egretta rufescens</i>
Egret, Snowy	<i>Egretta thula</i>
Elepaio	<i>Chasiempis sandwichensis</i>
Falcon, Peregrine	<i>Falco peregrinus</i>
Falcon, Prairie	<i>Falco mexicanus</i>
Fantail, Rufous	<i>Rhipidura rufifrons mariae</i>
Fantail, Rufous	<i>Rhipidura rufifrons saipanensis</i>
Finch, Cassin's	<i>Carpodacus cassinii</i>
Finch, Purple	<i>Carpodacus purpureus</i>
Flamingo, American	<i>Phoenicopterus ruber</i>
Flicker, Gilded	<i>Colaptes chrysoides</i>
Flicker, Northern	<i>Colaptes auratus</i>
Flycatcher, Acadian	<i>Empidonax virescens</i>
Flycatcher, Buff-breasted	<i>Empidonax fulvifrons</i>
Flycatcher, Olive-sided	<i>Contopus cooperi</i>
Flycatcher, Scissor-tailed	<i>Tyrannus forficatus</i>
Flycatcher, Willow	<i>Empidonax traillii</i>
Frigatebird, Magnificent	<i>Fregata magnificens</i>
Godwit, Bar-tailed	<i>Limosa lapponica baueri</i>
Godwit, Hudsonian	<i>Limosa haemastica</i>
Godwit, Marbled	<i>Limosa fedoa</i>
Goldfinch, Lawrence's	<i>Carduelis lawrencei</i>
Goshawk, Northern	<i>Accipiter gentilis laingi</i>
Grebe, Eared	<i>Podiceps nigricollis</i>
Grebe, Horned	<i>Podiceps auritus</i>
Grebe, Pied-billed	<i>Podilymbus podiceps</i>
Grebe, Western	<i>Aechmophorus occidentalis</i>
Ground-Dove, Common	<i>Columbina passerina</i>
Ground-Dove, Friendly	<i>Gallicolumba stairi</i>
Hawk, Ferruginous	<i>Buteo regalis</i>
Hawk, Harris's	<i>Parabuteo unicinctus</i>
Hawk, Short-tailed	<i>Buteo brachyurus</i>
Hawk, Swainson's	<i>Buteo swainsoni</i>
Hawk, White-tailed	<i>Buteo albicaudatus</i>
Heron, Little Blue	<i>Egretta caerulea</i>
Hummingbird, Allen's	<i>Selasphorus sasin</i>
Hummingbird, Blue-throated	<i>Lampornis clemenciae</i>
Hummingbird, Buff-bellied	<i>Amazilia yucatanensis</i>
Hummingbird, Calliope	<i>Stellula calliope</i>
Hummingbird, Costa's	<i>Calypte costae</i>
Hummingbird, Lucifer	<i>Calothorax lucifer</i>
Hummingbird, Rufous	<i>Selasphorus rufus</i>
liwi	<i>Vestiaria coccinea</i>

Jay, Pinyon	<i>Gymnorhinus cyanocephalus</i>
Kestrel, American	<i>Falco sparverius paulus</i>
Kingbird, Loggerhead	<i>Tyrannus caudifasciatus</i>
Kite, Mississippi	<i>Ictinia mississippiensis</i>
Kite, Swallow-tailed	<i>Elanoides forficatus</i>
Kittiwake, Red-legged	<i>Rissa brevirostris</i>
Knot, Red	<i>Calidris canutu roselaari</i>
Knot, Red	<i>Calidris canutus rufa</i>
Lark, Horned	<i>Eremophila alpestris strigata</i>
Limpkin	<i>Aramus guarauna</i>
Longspur, Chestnut-collared	<i>Calcarius ornatus</i>
Longspur, McCown's	<i>Calcarius mccownii</i>
Longspur, Smith's	<i>Calcarius pictus</i>
Loon, Red-throated	<i>Gavia stellata</i>
Loon, Yellow-billed	<i>Gavia adamsii</i>
Magpie, Yellow-billed	<i>Pica nuttalli</i>
Mango, Antillean	<i>Anthracothorax dominicus</i>
Monarch, Tinian	<i>Monarcha takatsukasae</i>
Murrelet, Kittlitz's	<i>Brachyramphus brevirostris</i>
Murrelet, Marbled	<i>Brachyramphus marmoratus</i>
Murrelet, Xantus's	<i>Synthliboramphus hypoleucus</i>
Myzomela, Micronesian	<i>Myzomela rubrata</i>
Night-Heron, Black-crowned	<i>Nycticorax nycticorax</i>
Nuthatch, Brown-headed	<i>Sitta pusilla</i>
Omao	<i>Myadestes obscurus</i>
Oriole, Altamira	<i>Icterus gularis</i>
Oriole, Audubon's	<i>Icterus graduacauda</i>
Oriole, Greater Antillean	<i>Icterus dominicensis</i>
Oriole, Hooded	<i>Icterus cucullatus</i>
Oriole, Orchard	<i>Icterus spurius</i>
Owl, Burrowing	<i>Athene cunicularia</i>
Owl, Elf	<i>Micrathene whitneyi</i>
Owl, Flammulated	<i>Otus flammeolus</i>
Owl, Northern Saw-whet	<i>Aegolius acadicus</i>
Owl, Short-eared	<i>Asio flammeus</i>
Owl, Spotted	<i>Strix occidentalis occidentalis</i>
Oystercatcher, American	<i>Haematopus palliatus palliatus</i>
Oystercatcher, Black	<i>Haematopus bachmani</i>
Parakeet, Green	<i>Aratinga holochlora</i>
Parrot, Red-crowned	<i>Amazona viridigenalis</i>
Parula, Tropical	<i>Parula pitiayumi</i>
Petrel, Black-capped	<i>Pterodroma hasitata</i>
Petrel, Herald	<i>Pterodroma arminjoniana</i>
Petrel, Phoenix	<i>Pterodroma alba</i>
Petrel, Tahiti	<i>Pterodroma rostrata</i>
Phainopepla	<i>Phainopepla nitens</i>
Pigeon, Red-billed	<i>Columba flavirostris</i>

Pigeon, White-crowned	<i>Columba leucocephala</i>
Pintail, White-cheeked	<i>Anas bahamensis</i>
Pipit, Sprague's	<i>Anthus spragueii</i>
Plover, Mountain	<i>Charadrius montanus</i>
Plover, Snowy	<i>Charadrius alexandrinus nivosus/tenuirostris</i>
Plover, Wilson's	<i>Charadrius wilsonia wilsonia</i>
Prairie-Chicken, Lesser	<i>Tympanuchus pallidicinctus</i>
Quail-Dove, Bridled	<i>Geotrygon mystacea</i>
Rail, Black	<i>Laterallus jamaicensis</i>
Rail, Yellow	<i>Coturnicops noveboracensis</i>
Rosy-Finch, Black	<i>Leucosticte atrata</i>
Rosy-Finch, Brown-capped	<i>Leucosticte australis</i>
Sage-Grouse, Greater	<i>Centrocercus urophasianus</i>
Sage-Grouse, Gunnison	<i>Centrocercus minimus</i>
Sandpiper, Buff-breasted	<i>Tryngites subruficollis</i>
Sandpiper, Purple	<i>Calidris maritima maritima/belcheri</i>
Sandpiper, Rock	<i>Calidris ptilocnemis ptilocnemis</i>
Sandpiper, Semipalmated	<i>Calidris pusilla</i>
Sandpiper, Solitary	<i>Tringa solitaria</i>
Sandpiper, Upland	<i>Bartramia longicauda</i>
Sapsucker, Williamson's	<i>Sphyrapicus thyroideus</i>
Sapsucker, Yellow-bellied	<i>Sphyrapicus varius</i>
Scrub-Jay, Island	<i>Aphelocoma insularis</i>
Seedeater, White-collared	<i>Sporophila torqueola</i>
Shearwater, Audubon's	<i>Puffinus nativitatis</i>
Shearwater, Black-vented	<i>Puffinus opisthomelas</i>
Shearwater, Christmas	<i>Puffinus nativitatis</i>
Shearwater, Greater	<i>Puffinus gravis</i>
Shearwater, Pink-footed	<i>Puffinus creatopus</i>
Shrike, Loggerhead	<i>Lanius ludovicianus</i>
Shrikebill, Fiji	<i>Clytorhynchus vitiensis</i>
Skimmer, Black	<i>Rynchops niger</i>
Sparrow, Bachman's	<i>Aimophila aestivalis</i>
Sparrow, Baird's	<i>Ammodramus bairdii</i>
Sparrow, Black-chinned	<i>Spizella atrogularis</i>
Sparrow, Botteri's	<i>Aimophila botterii</i>
Sparrow, Brewer's	<i>Spizella breweri</i>
Sparrow, Cassin's	<i>Aimophila cassinii</i>
Sparrow, Field	<i>Spizella pusilla</i>
Sparrow, Five-striped	<i>Aimophila quinquestriata</i>
Sparrow, Grasshopper	<i>Ammodramus savannarum</i>
Sparrow, Grasshopper	<i>Ammodramus savannarum ammolegus</i>
Sparrow, Harris's	<i>Zonotrichia querula</i>
Sparrow, Henslow's	<i>Ammodramus henslowii</i>
Sparrow, Le Conte's	<i>Ammodramus leconteii</i>
Sparrow, Nelson's Sharp-tailed	<i>Ammodramus nelsoni</i>
Sparrow, Rufous-crowned	<i>Aimophila ruficeps</i>

Sparrow, Rufous-winged	<i>Aimophila carpalis</i>
Sparrow, Sage	<i>Amphispiza belli</i>
Sparrow, Saltmarsh Sharp-tailed	<i>Ammodramus caudacutus</i>
Sparrow, Seaside	<i>Ammodramus maritimus</i>
Sparrow, Song	<i>Melospiza melodia graminea</i>
Sparrow, Song	<i>Melospiza melodia maxillaris</i>
Sparrow, Song	<i>Melospiza melodia pusillula</i>
Sparrow, Song	<i>Melospiza melodia samuelis</i>
Sparrow, Oregon Vesper	<i>Poocetes gramineus affinis</i>
Spoonbill, Roseate	<i>Platalea ajaja</i>
Starling, Micronesia	<i>Aplonis opaca guami</i>
Starling, Polynesian	<i>Aplonis tabuensis</i>
Storm-Petrel, Ashy	<i>Oceanodroma homochroa</i>
Storm-Petrel, Band-rumped	<i>Oceanodroma castro</i>
Storm-Petrel, Polynesian	<i>Nesofregatta fuliginosa</i>
Storm-Petrel, Tristram's	<i>Oceanodroma tristrami</i>
Swamphen, Purple	<i>Porphyrio porphyrio</i>
Swift, Black	<i>Cypseloides niger</i>
Tanager, Summer	<i>Piranga rubra</i>
Tern, Caspian	<i>Hydroprogne caspia</i>
Tern, Aleutian	<i>Sterna aleutica</i>
Tern, Arctic	<i>Sterna paradisaea</i>
Tern, Black	<i>Chlidonias niger</i>
Tern, Common	<i>Sterna hirundo</i>
Tern, Gull-billed	<i>Gelochelidon nilotica</i>
Tern, Least	<i>Sternula antillarum</i>
Tern, Sandwich	<i>Thalasseus sandvicensis</i>
Thrasher, Bendire's	<i>Toxostoma bendirei</i>
Thrasher, Brown	<i>Toxostoma rufum</i>
Thrasher, Curve-billed	<i>Toxostoma curvirostre</i>
Thrasher, Le Conte's	<i>Toxostoma lecontei</i>
Thrasher, Sage	<i>Oreoscoptes montanus</i>
Thrush, Bicknell's	<i>Catharus bicknelli</i>
Thrush, Wood	<i>Hylocichla mustelina</i>
Titmouse, Juniper	<i>Baeolophus ridgwayi</i>
Titmouse, Oak	<i>Baeolophus inornatus</i>
Towhee, Canyon	<i>Pipilo fuscus</i>
Towhee, Green-tailed	<i>Pipilo chlorurus</i>
Towhee, Spotted	<i>Pipilo maculatus clementae</i>
Trogon, Elegant	<i>Trogon elegans</i>
Verdin	<i>Auriparus flaviceps</i>
Veery	<i>Catharus fuscescens</i>
Vireo, Bell's	<i>Vireo bellii</i>
Vireo, Black-whiskered	<i>Vireo altiloquus</i>
Vireo, Gray	<i>Vireo vicinior</i>
Vireo, Puerto Rican	<i>Vireo latimeri</i>
Warbler, Bay-breasted	<i>Dendroica castanea</i>

Warbler, Black-throated-green	<i>Dendroica virens</i>
Warbler, Black-throated Gray	<i>Dendroica nigrescens</i>
Warbler, Blue-winged	<i>Vermivora pinus</i>
Warbler, Canada	<i>Wilsonia canadensis</i>
Warbler, Cerulean	<i>Dendroica cerulea</i>
Warbler, Colima	<i>Vermivora crissalis</i>
Warbler, Elfin-wood	<i>Dendroica angelae</i>
Warbler, Golden-winged	<i>Vermivora chrysoptera</i>
Warbler, Grace's	<i>Dendroica graciae</i>
Warbler, Kentucky	<i>Oporornis formosus</i>
Warbler, Lucy's	<i>Vermivora luciae</i>
Warbler, Olive	<i>Peucedramus taeniatus</i>
Warbler, Prairie	<i>Dendroica discolor</i>
Warbler, Prothonotary	<i>Protonotaria citrea</i>
Warbler, Red-faced	<i>Cardellina rubrifrons</i>
Warbler, Swainson's	<i>Limnothlypis swainsonii</i>
Warbler, Virginia's	<i>Vermivora virginiae</i>
Warbler, Worm-eating	<i>Helmitheros vermivorus</i>
Warbler, Yellow	<i>Dendroica petechia brewsteri</i>
Warbler, Yellow	<i>Dendroica petechia gundlachi</i>
Warbler, Yellow	<i>Dendroica petechia sonorana</i>
Waterthrush, Louisiana	<i>Seiurus motacilla</i>
Whimbrel	<i>Numenius phaeopus</i>
Whip-poor-will	<i>Caprimulgus vociferus</i>
Whistling-Duck, West Indian	<i>Dendrocygna arborea</i>
White-eye, Bridled	<i>Zosterops conspicillatus saypani</i>
White-eye, Golden	<i>Cleptornis marchei</i>
Woodpecker, Arizona	<i>Picoides arizonae</i>
Woodpecker, Gila	<i>Melanerpes uropygialis</i>
Woodpecker, Lewis's	<i>Melanerpes lewis</i>
Woodpecker, Nuttall's	<i>Picoides nuttallii</i>
Woodpecker, Red-headed	<i>Melanerpes erythrocephalus</i>
Woodpecker, White-headed	<i>Picoides albolarvatus</i>
Wren, Bewick's	<i>Thryomanes bewickii bewickii</i>
Wren, Cactus	<i>Campylorhynchus brunneicapillus</i>
Wren, Marsh	<i>Cistothorus palustris</i>
Wren, Sedge	<i>Cistothorus platensis</i>
Yellowlegs, Lesser	<i>Tringa flavipes</i>
Yellowthroat, Common	<i>Geothlypis trichas sinuosa</i>