

USER'S GUIDE

A complete description of the data and supplemental files included in:

Data Supporting an Examination of Estimating the Potential Capacity of Ecosystems to Support biodiversity in the Prediction of Realized Avian Diversity

January 2021

Table of Contents

Introduction.....	2
GIS data	3
BBSrte_MBRrba_BCR_MBRrbaLocations.shp	3
BBSrte_MBRrba_BCR_StartLocations.shp	3
BCR_NA.shp	4
Tabular data.....	5
spp_abundance.csv.....	5
spp_richness_all_species.csv	6
spp_richness_exotic_passerine_species.csv	7
spp_richness_exotic_species.csv	7
spp_richness_forestWoodland_passerine_species.csv.....	7
spp_richness_forestWoodland_species.csv.....	8
spp_richness_grassland_passerine_species.csv	8
spp_richness_grassland_species.csv	9
spp_richness_native_passerine_species.csv	10
spp_richness_native_species.csv	10
spp_richness_passerine_species.csv	10
Supplemental data.....	12
BBS_MasterSpeciesList.csv	12
BBS_SpeciesGroupings.pdf.....	12
BCR.txt	12
data_set_modifications.txt	12
exotic_SpeciesList.csv	12
forestWoodland_SpeciesList.csv	12
grassland_SpeciesList.csv.....	12
RegionCodes.txt.....	13
RunProtocolID.csv	13
Runtype.txt.....	13
Unidentified_speciesList.csv	13

Introduction

This guide describes the data sets used and created, including their variables and descriptions, in support of the *Data supporting an examination of estimating the potential capacity of ecosystems to support biodiversity in the prediction of realized avian diversity* study.

References

Breeding Bird Survey Grouping (<https://www.mbr-pwrc.usgs.gov/bbs/htmgu/guildlst.html>)

North American Breeding Bird Survey. 2020. U.S. Geological Survey. <https://www.usgs.gov/centers/pwrc/science/north-american-breeding-bird-survey>.

Sauer, John R.; Link, William A.; Fallon, Jane E.; Pardieck, Keith L.; Ziolkowski, David J. Jr. 2013. The North American Breeding Bird Survey 1966-2011: Summary Analysis and Species Accounts. North American Fauna 79: 1–32. <https://doi.org/10.3996/nafa.79.0001>

GIS data

Within the data publication these ESRI ArcGIS shapefiles files can be found under: \\Data\\SHPfiles\\...

Metadata documents for each SHP file are available (*.shp.xml) and contain details on the data available within each file.

BBSrte_MBRrba_BCR_MBRrbaLocations.shp: ESRI ArcGIS shapefile (and associated files) containing Breeding Bird Survey (BBS) route centroids based on the rectangle by area minimum bounding geometry of the route path.

#	Variable	Description
1	FID	Unique identifier for each feature
2	Shape	Shape of the geographic feature
3	FID_BBSrte	Unique feature identifier for each BBS route
4	Rteno	BBS route number
5	ORIG_FID	Original feature identifier
6	FID_BCR_NA	Feature identifier for each Bird Conservation Region (BCR)
7	AREA	Area (m ²) of the polygon in which the BBS route centroid occurs
8	PERIMETER	Perimeter length (m) of the BCR polygon in which the BBS route occurs
9	BCR_	Internal ArcGIS identifier
10	BRC_ID	Internal ArcGIS identifier
11	BCR	BCR code
12	BCR_NAME	BCR name
13	KM2	Area (km ²) of polygon
14	BCR_AREA	Area (m ²) of the BCR
15	DISSOLVE_V	Variable used in running the ArcGIS Dissolve tool

BBSrte_MBRrba_BCR_StartLocations.shp: ESRI ArcGIS shapefile containing Breeding Bird Survey (BBS) route start locations.

#	Variable	Description
1	FID	Unique identifier for each feature
2	Shape	Shape of the geographic feature
3	FID_start_	Feature identifier for the BBS start location
4	rteno	BBS route number
5	Latitude	Latitude, in decimal-degrees, of the BBS route start location
6	Longitude	Longitude, in decimal-degrees, of the BBS route start location
7	FID_BCR_NA	Internal ArcGIS identifier
8	AREA	Area (m ²) of the polygon in which the BBS route occurs
9	PERIMETER	Perimeter length (m) of the BCR polygon in which the BBS route start location occurs
10	BCR_	Internal ArcGIS identifier
11	BRC_ID	Internal ArcGIS identifier
12	BCR	BCR code
13	BCR_NAME	BCR name
14	KM2	Area (km ²) of polygon
15	BCR_AREA	Area (m ²) of the BCR
16	DISSOLVE_V	Variable used in running the ArcGIS Dissolve tool

BCR_NA.shp: ESRI ArcGIS shapefile containing Bird Conservation Regions (BCR) for North America.

#	Variable	Description
1	FID	Unique identifier for each feature
2	Shape	Shape of the geographic feature
3	AREA	Area (m ²) of the BCR
4	PERIMETER	Area (m) of the BCR
5	BRC_	Internal ArcGIS identifier
6	BCR_ID	Internal ArcGIS identifier
7	BCR	BCR code
8	BCR_NAME	BCR name
9	KM2	Area (km ²) of polygon
10	BCR_AREA	Area (km ²) of BCR
11	DISSOLVE_V	Variable used in running the ArcGIS Dissolve tool

Tabular data

Within the data publication these comma-delimited ASCII text files can be found under: \Data\...

spp_abundance.csv: Comma-delimited ASCII text file containing a count of all individuals detected on each BBS route in each year, 2010-2014.

Additional Notes:

- Missing data are represented with a “ ”.
- Total includes unidentified or hybrid species.
- Exotic only includes species identified as exotic.
- Native excludes species identified as exotic.
- Passerine includes species identified as Order Passeriformes by Breeding Bird Survey master species list.
- Forest-woodland species based on Breeding Bird Survey Species Grouping (<https://www.mbr-pwrc.usgs.gov/bbs/htmgu/guildlst.html>) and Sauer et al. (2013).

#	Variable	Description
1	rteno	Breeding Bird Survey (BBS) route xxxxyy, where xx = BBS state code, yyy = BBS route
2	BCR	Bird Conservation Region (BCR) in which the MBR centroid falls
3	Total_2010	Total number of individuals observed on rteno, 2010
4	Total_2011	Total number of individuals observed on rteno, 2011
5	Total_2012	Total number of individuals observed on rteno, 2012
6	Total_2013	Total number of individuals observed on rteno, 2013
7	Total_2014	Total number of individuals observed on rteno, 2014
8	Exotic_2010	Total number of exotic individuals observed on rteno, 2010
9	Exotic_2011	Total number of exotic individuals observed on rteno, 2011
10	Exotic_2012	Total number of exotic individuals observed on rteno, 2012
11	Exotic_2013	Total number of exotic individuals observed on rteno, 2013
12	Exotic_2014	Total number of exotic individuals observed on rteno, 2014
13	Native_2010	Total number of native individuals observed on rteno, 2010
14	Native_2011	Total number of native individuals observed on rteno, 2011
15	Native_2012	Total number of native individuals observed on rteno, 2012
16	Native_2013	Total number of native individuals observed on rteno, 2013
17	Native_2014	Total number of native individuals observed on rteno, 2014
18	Passerine_2010	Total number of passerine individuals observed on rteno, 2010
19	Passerine_2011	Total number of passerine individuals observed on rteno, 2011
20	Passerine_2012	Total number of passerine individuals observed on rteno, 2012
21	Passerine_2013	Total number of passerine individuals observed on rteno, 2013
22	Passerine_2014	Total number of passerine individuals observed on rteno, 2014
23	NativePasserine_2010	Total number of native passerine individuals observed on rteno, 2010
24	NativePasserine_2011	Total number of native passerine individuals observed on rteno, 2011
25	NativePasserine_2012	Total number of native passerine individuals observed on rteno, 2012
26	NativePasserine_2013	Total number of native passerine individuals observed on rteno, 2013
27	NativePasserine_2014	Total number of native passerine individuals observed on rteno, 2014
28	ExoticPasserine_2010	Total number of exotic passerine individuals observed on rteno, 2010
29	ExoticPasserine_2011	Total number of exotic passerine individuals observed on rteno, 2011
30	ExoticPasserine_2012	Total number of exotic passerine individuals observed on rteno, 2012
31	ExoticPasserine_2013	Total number of exotic passerine individuals observed on rteno, 2013
32	ExoticPasserine_2014	Total number of exotic passerine individuals observed on rteno, 2014

33	ForestWoodland2010	Total number of forest-woodland individuals observed on rteno, 2010
34	ForestWoodland_2011	Total number of forest-woodland individuals observed on rteno, 2011
35	ForestWoodland_2012	Total number of forest-woodland individuals observed on rteno, 2012
36	ForestWoodland_2013	Total number of forest-woodland individuals observed on rteno, 2013
37	ForestWoodland_2014	Total number of forest-woodland individuals observed on rteno, 2014
38	PasserineFW_2010	Total number of forest-woodland passerine individuals observed on rteno, 2010
39	PasserineFW_2011	Total number of forest-woodland passerine individuals observed on rteno, 2011
40	PasserineFW_2012	Total number of forest-woodland passerine individuals observed on rteno, 2012
41	PasserineFW_2013	Total number of forest-woodland passerine individuals observed on rteno, 2013
42	PasserineFW_2014	Total number of forest-woodland passerine individuals observed on rteno, 2014
43	Grassland_2010	Total number of grassland passerine individuals observed on rteno, 2010
44	Grassland_2011	Total number of grassland passerine individuals observed on rteno, 2011
45	Grassland_2012	Total number of grassland passerine individuals observed on rteno, 2012
46	Grassland_2013	Total number of grassland passerine individuals observed on rteno, 2013
47	Grassland_2014	Total number of grassland passerine individuals observed on rteno, 2014
48	PasserineGrassland_2010	Total number of grassland passerine individuals observed on rteno, 2010
49	PasserineGrassland_2011	Total number of grassland passerine individuals observed on rteno, 2011
50	PasserineGrassland_2012	Total number of grassland passerine individuals observed on rteno, 2012
51	PasserineGrassland_2013	Total number of grassland passerine individuals observed on rteno, 2013
52	PasserineGrassland_2014	Total number of grassland passerine individuals observed on rteno, 2014

spp_richness_all_species.csv: Comma-delimited ASCII text file containing a count of the observed and estimated species richness for all species detected on Breeding Bird Survey routes in the coterminous United States, as calculated by COMDYN (<https://www.usgs.gov/centers/pwrc/software>).

Additional Notes:

- Missing data are represented with a “ ”.
- Includes exotic species.
- Excludes hybrid species.

#	Variable	Description
1	Rteno	Breeding Bird Survey (BBS) route xxyyy, where xx = BBS state code, yyy = BBS route
2	BCR	Bird Conservation Region (BCR) in which the MBR centroid falls
3	obs_species_2010	Observed Species Richness for All Species, 2010
4	est_species_2010	Estimated Species Richness for All Species, 2010
5	obs_species_2011	Observed Species Richness for All Species, 2011
6	est_species_2011	Estimated Species Richness for All Species, 2011
7	obs_species_2012	Observed Species Richness for All Species, 2012
8	est_species_2012	Estimated Species Richness for All Species, 2012
9	obs_species_2013	Observed Species Richness for All Species, 2013
10	est_species_2013	Estimated Species Richness for All Species, 2013
11	obs_species_2014	Observed Species Richness for All Species, 2014
12	est_species_2014	Estimated Species Richness for All Species, 2014

spp_richness_exotic_passerine_species.csv: Comma-delimited ASCII text file of the observed and estimated species richness for exotic passerine species detected on Breeding Bird Survey routes in the coterminous United States, as calculated by COMDYN (<https://www.usgs.gov/centers/pwrc/software>).

Additional Notes:

- Missing data are represented with a “ ”.
- Passerine species identified by the Order Passeriformes by the BBS (see \Supplements\BBS_MasterSpeciesList.csv).
- Excludes hybrid species.
- Excludes unidentified species if they cannot be unambiguously assigned to a species.

#	Variable	Description
1	rteno	Breeding Bird Survey (BBS) route xxyyy, where xx = BBS state code, yyy = BBS route
2	BCR	Bird Conservation Region (BCR) in which the MBR centroid falls
3	obs_species_2010	Observed Species Richness for Exotic Passerine Species, 2010
4	est_species_2010	Estimated Species Richness for Exotic Passerine Species, 2010
5	obs_species_2011	Observed Species Richness for Exotic Passerine Species, 2011
6	est_species_2011	Estimated Species Richness for Exotic Passerine Species, 2011
7	obs_species_2012	Observed Species Richness for Exotic Passerine Species, 2012
8	est_species_2012	Estimated Species Richness for Exotic Passerine Species, 2012
9	obs_species_2013	Observed Species Richness for Exotic Passerine Species, 2013
10	est_species_2013	Estimated Species Richness for Exotic Passerine Species, 2013
11	obs_species_2014	Observed Species Richness for Exotic Passerine Species, 2014
12	est_species_2014	Estimated Species Richness for Exotic Passerine Species, 2014

spp_richness_exotic_species.csv: Comma-delimited ASCII text file of the observed and estimated species richness for exotic species detected on Breeding Bird Survey routes in the coterminous United States, as calculated by COMDYN (<https://www.usgs.gov/centers/pwrc/software>).

Additional Notes:

- Missing data are represented with a “ ”.
- Excludes unidentified White-winged / Yellow-chevroned Parakeet (AOU=3827).

#	Variable	Description
1	rteno	Breeding Bird Survey (BBS) route xxyyy, where xx = BBS state code, yyy = BBS route
2	BCR	Bird Conservation Region (BCR) in which the MBR centroid falls
3	obs_species_2010	Observed Species Richness for Exotic Species, 2010
4	est_species_2010	Estimated Species Richness for Exotic Species, 2010
5	obs_species_2011	Observed Species Richness for Exotic Species, 2011
6	est_species_2011	Estimated Species Richness for Exotic Species, 2011
7	obs_species_2012	Observed Species Richness for Exotic Species, 2012
8	est_species_2012	Estimated Species Richness for Exotic Species, 2012
9	obs_species_2013	Observed Species Richness for Exotic Species, 2013
10	est_species_2013	Estimated Species Richness for Exotic Species, 2013
11	obs_species_2014	Observed Species Richness for Exotic Species, 2014
12	est_species_2014	Estimated Species Richness for Exotic Species, 2014

spp_richness_forestWoodland_passerine_species.csv: Comma-delimited ASCII text file of the observed and estimated species richness for forest-woodland passerine species detected on Breeding Bird Survey routes in the coterminous United States, as calculated by COMDYN(<https://www.usgs.gov/centers/pwrc/software>).

Additional Notes:

- Missing data are represented with a “ ”.
- Forest-woodland species based on Breeding Bird Survey Species Grouping (<https://www.mbr-pwrc.usgs.gov/bbs/htmgu/guildlst.html>) and Sauer et al. (2013).
- Passerine species identified by the Order Passeriformes by the BBS (see \Supplements\BBS_MasterSpeciesList.csv).
- Excludes hybrid species.
- Excludes unidentified species if they cannot be unambiguously assigned to a species.

#	Variable	Description
1	rteno	Breeding Bird Survey (BBS) route xxyyy, where xx = BBS state code, yyy = BBS route
2	BCR	Bird Conservation Region (BCR) in which the MBR centroid falls
3	obs_species_2010	Observed Species Richness for Forest-Woodland Passerine Species, 2010
4	est_species_2010	Estimated Species Richness for Forest-Woodland Passerine Species, 2010
5	obs_species_2011	Observed Species Richness for Forest-Woodland Passerine Species, 2011
6	est_species_2011	Estimated Species Richness for Forest-Woodland Passerine Species, 2011
7	obs_species_2012	Observed Species Richness for Forest-Woodland Passerine Species, 2012
8	est_species_2012	Estimated Species Richness for Forest-Woodland Passerine Species, 2012
9	obs_species_2013	Observed Species Richness for Forest-Woodland Passerine Species, 2013
10	est_species_2013	Estimated Species Richness for Forest-Woodland Passerine Species, 2013
11	obs_species_2014	Observed Species Richness for Forest-Woodland Passerine Species, 2014
12	est_species_2014	Estimated Species Richness for Forest-Woodland Passerine Species, 2014

spp_richness_forestWoodland_species.csv: Comma-delimited ASCII text file of the observed and estimated species richness for forest-woodland species detected on Breeding Bird Survey routes in the coterminous United States, as calculated by COMDYN (<https://www.usgs.gov/centers/pwrc/software>).

Additional Notes:

- Missing data are represented with a “ ”.
- Forest-woodland species based on Breeding Bird Survey Species Grouping (<https://www.mbr-pwrc.usgs.gov/bbs/htmgu/guildlst.html>) and Sauer et al. (2013).
- Excludes exotic and hybrid species.
- Excludes unidentified species if they cannot be unambiguously assigned to a species.

#	Variable	Description
1	rteno	Breeding Bird Survey (BBS) route xxyyy, where xx = BBS state code, yyy = BBS route
2	BCR	Bird Conservation Region (BCR) in which the MBR centroid falls
3	obs_species_2010	Observed Species Richness for Forest-Woodland Species, 2010
4	est_species_2010	Estimated Species Richness for Forest-Woodland Species, 2010
5	obs_species_2011	Observed Species Richness for Forest-Woodland Species, 2011
6	est_species_2011	Estimated Species Richness for Forest-Woodland Species, 2011
7	obs_species_2012	Observed Species Richness for Forest-Woodland Species, 2012
8	est_species_2012	Estimated Species Richness for Forest-Woodland Species, 2012
9	obs_species_2013	Observed Species Richness for Forest-Woodland Species, 2013
10	est_species_2013	Estimated Species Richness for Forest-Woodland Species, 2013
11	obs_species_2014	Species Richness Observed for Forest-Woodland Species, 2014
12	est_species_2014	Species Richness Estimated for Forest-Woodland Species, 2014

spp_richness_grassland_passerine_species.csv: Comma-delimited ASCII text file of the observed and estimated species

richness for grassland species detected on Breeding Bird Survey routes in the coterminous United States, as calculated by COMDYN (<https://www.usgs.gov/centers/pwrc/software>).

Additional Notes:

- Missing data are represented with a “ ”.
- Grassland species based on Breeding Bird Survey Species Grouping (<https://www.mbr-pwrc.usgs.gov/bbs/htmgu/guildlst.html>) and Sauer et al. (2013).
- Passerine species identified by the Order Passeriformes by the BBS (see \Supplements\BBS_MasterSpeciesList.csv).
- Excludes exotic and hybrid species.
- Excludes unidentified species if they cannot be unambiguously assigned to a species.

#	Variable	Description
1	rteno	Breeding Bird Survey (BBS) route xxyyy, where xx = BBS state code, yyy = BBS route
2	BCR	Bird Conservation Region (BCR) in which the MBR centroid falls
3	obs_species_2010	Observed Species Richness for Grassland Passerine Species, 2010
4	est_species_2010	Estimated Species Richness for Grassland Passerine Species, 2010
5	obs_species_2011	Observed Species Richness for Grassland Passerine Species, 2011
6	est_species_2011	Estimated Species Richness for Grassland Passerine Species, 2011
7	obs_species_2012	Observed Species Richness for Grassland Passerine Species, 2012
8	est_species_2012	Estimated Species Richness for Grassland Passerine Species, 2012
9	obs_species_2013	Observed Species Richness for Grassland Passerine Species, 2013
10	est_species_2013	Estimated Species Richness for Grassland Passerine Species, 2013
11	obs_species_2014	Observed for Species Richness Grassland Passerine Species, 2014
12	est_species_2014	Estimated Species Richness for Grassland Passerine Species, 2014

spp_richness_grassland_species.csv: Comma-delimited ASCII text file of the observed and estimated species richness for grassland species detected on Breeding Bird Survey routes in the coterminous United States, as calculated by COMDYN (<https://www.usgs.gov/centers/pwrc/software>).

Additional Notes:

- Missing data are represented with a “ ”.
- Grassland species based on Breeding Bird Survey Species Grouping (<https://www.mbr-pwrc.usgs.gov/bbs/htmgu/guildlst.html>) and Sauer et al. (2013).
- Excludes exotic and hybrid species.
- Excludes unidentified species if they cannot be unambiguously assigned to a species.

#	Variable	Description
1	rteno	Breeding Bird Survey (BBS) route xxyyy, where xx = BBS state code, yyy = BBS route
2	BCR	Bird Conservation Region (BCR) in which the MBR centroid falls
3	obs_species_2010	Observed Species Richness for Grassland Species, 2010
4	est_species_2010	Estimated Species Richness for Grassland Species, 2010
5	obs_species_2011	Observed Species Richness for Grassland Species, 2011
6	est_species_2011	Estimated Species Richness for Grassland Species, 2011
7	obs_species_2012	Observed Species Richness for Grassland Species, 2012
8	est_species_2012	Estimated Species Richness for Grassland Species, 2012
9	obs_species_2013	Observed Species Richness for Grassland Species, 2013
10	est_species_2013	Estimated Species Richness for Grassland Species, 2013
11	obs_species_2014	Observed Species Richness for Grassland Species, 2014
12	est_species_2014	Estimated Species Richness for Grassland Species, 2014

spp_richness_native_passerine_species.csv: Comma-delimited ASCII text file of the observed and estimated species richness for native passerine species detected on Breeding Bird Survey routes in the coterminous United States, as calculated by COMDYN (<https://www.usgs.gov/centers/pwrc/software>).

Additional Notes:

- Missing data are represented with a “ ”.
- Passerine species identified by the Order Passeriformes by the BBS (see \Supplements\BBS_MasterSpeciesList.csv).
- Excludes exotic and hybrid species.
- Excludes unidentified species if they cannot be unambiguously assigned to a species.

#	Variable	Description
1	rteno	Breeding Bird Survey (BBS) route <i>xyyyy</i> , where <i>xx</i> = BBS state code, <i>yyy</i> = BBS route
2	BCR	Bird Conservation Region (BCR) in which the MBR centroid falls
3	obs_species_2010	Observed Species Richness for Native Passerine Species, 2010
4	est_species_2010	Estimated Species Richness for Native Passerine Species, 2010
5	obs_species_2011	Observed Species Richness for Native Passerine Species, 2011
6	est_species_2011	Estimated Species Richness for Native Passerine Species, 2011
7	obs_species_2012	Observed Species Richness for Native Passerine Species, 2012
8	est_species_2012	Estimated Species Richness for Native Passerine Species, 2012
9	obs_species_2013	Observed Species Richness for Native Passerine Species, 2013
10	est_species_2013	Estimated Species Richness for Native Passerine Species, 2013
11	obs_species_2014	Observed Species Richness for Native Passerine Species, 2014
12	est_species_2014	Estimated Species Richness for Native Passerine Species, 2014

spp_richness_native_species.csv: Comma-delimited ASCII text file of the observed and estimated species richness for native species detected on Breeding Bird Survey routes in the coterminous United States, as calculated by COMDYN (<https://www.usgs.gov/centers/pwrc/software>).

Additional Notes:

- Missing data are represented with a “ ”.
- Excludes exotic and hybrid species.
- Excludes unidentified species that cannot be unambiguously assigned to a species.

#	Variable	Description
1	rteno	Breeding Bird Survey (BBS) route <i>xyyyy</i> , where <i>xx</i> = BBS state code, <i>yyy</i> = BBS route
2	BCR	Bird Conservation Region (BCR) in which the MBR centroid falls
3	obs_species_2010	Observed Species Richness for Native Species, 2010
4	est_species_2010	Estimated Species Richness for Native Species, 2010
5	obs_species_2011	Observed Species Richness for Native Species, 2011
6	est_species_2011	Estimated Species Richness for Native Species, 2011
7	obs_species_2012	Observed Species Richness for Native Species, 2012
8	est_species_2012	Estimated Species Richness for Native Species, 2012
9	obs_species_2013	Observed Species Richness for Native Species, 2013
10	est_species_2013	Estimated Species Richness for Native Species, 2013
11	obs_species_2014	Observed Species Richness for Native Species, 2014
12	est_species_2014	Estimated Species Richness for Native Species, 2014

spp_richness_passerine_species.csv: Comma-delimited ASCII text file of the observed and estimated species richness for passerine species detected on Breeding Bird Survey routes in the coterminous United States, as calculated by

COMDYN (<https://www.usgs.gov/centers/pwrc/software>).

Additional Notes:

- Missing data are represented with a “ ”.
- Passerine species identified by the Order Passeriformes by the BBS (see \Supplements\BBS_MasterSpeciesList.csv).

#	<u>Variable</u>	<u>Description</u>
1	rteno	Breeding Bird Survey (BBS) route xxyyy, where xx = BBS state code, yyy = BBS route
2	BCR	Bird Conservation Region (BCR) in which the MBR centroid falls
3	obs_species_2010	Observed Species Richness for Passerine Species, 2010
4	est_species_2010	Estimated Species Richness for Passerine Species, 2010
5	obs_species_2011	Observed Species Richness for Passerine Species, 2011
6	est_species_2011	Estimated Species Richness for Passerine Species, 2011
7	obs_species_2012	Observed Species Richness for Passerine Species, 2012
8	est_species_2012	Estimated Species Richness for Passerine Species, 2012
9	obs_species_2013	Observed Species Richness for Passerine Species, 2013
10	est_species_2013	Estimated Species Richness for Passerine Species, 2013
11	obs_species_2014	Observed Species Richness for Passerine Species, 2014
12	est_species_2014	Estimated Species Richness for Passerine Species, 2014

Supplemental data

Within the data product these comma-delimited ASCII text files can be found under: \Supplements\...

BBS_MasterSpeciesList.csv: Comma-delimited ASCII text file containing the complete list of avian species in the Breeding Bird Survey master species list.

#	Variable	Description
1	AOU	Unique Species Identification Number
2	English Common Name	Common Name
3	Order	Order Taxonomic Rank
4	Family	Family Taxonomic Rank
5	Genus	Genus Taxonomic Rank
6	Species	Species Taxonomic Rank

BBS_SpeciesGroupings.pdf: PDF file of species groupings based on breeding habitat, nest type, migration form, and nest location as defined by the Breeding Bird Survey (BBS).

BCR.txt: ASCII text file containing Bird Conservation Regions (BCR) descriptions.

#	Variable	Description
1	BCRId	Unique BCR Identification Number
2	BCRName	Common Name
3	BCRNameFrench	French Common Name
4	BCRNameSpanish	Spanish Common Name

data_set_modifications.txt: ASCII text file containing the filters applied to the Breeding Bird Survey (BBS) data, 2010-2014.

exotic_SpeciesList.csv: Comma-delimited ASCII text file containing the list of species identified as exotic.

#	Variable	Description
1	AOU	Unique Species Identification Number
2	common name	Species Common Name

forestWoodland_SpeciesList.csv: Comma-delimited ASCII text file containing the list of species identified as Forest-Woodland, as defined by the Breeding Bird Survey Grouping (<https://www.mbr-pwrc.usgs.gov/bbs/htmgu/guildlst.html>) and Sauer et al. (2013).

#	Variable	Description
1	common name	Species Common Name
2	sci name	Species Scientific Name
3	AOU	Unique Species Identification Number
4	Woodand BBS	Woodland Species as Defined by the Breeding Bird Survey
5	Forest Boreal Sauer	Boreal Forest Species as Defined by Sauer et al. (2013)
6	Forest Eastern Sauer	Eastern Forest Species as Defined by Sauer et al. (2013)
7	Forest Subtropical Sauer	Subtropical Forest Species as Defined by Sauer et al. (2013)
8	Forest Western Sauer	Western Forest Species as Defined by Sauer et al. (2013)

grassland_SpeciesList.csv: Comma-delimited ASCII text file containing the list of species identified as grassland, as defined by the Breeding Bird Survey and Sauer et al. (2013) Grouping (<https://www.mbr-pwrc.usgs.gov/bbs/htmgu/guildlst.html>).

#	Variable	Description
1	common name	Species Common Name

2	sci_name	Species Scientific Name
3	AOU	Numeric Identifier, Unique to each species
4	Grassland BBS	Grassland Species as Defined by the Breeding Bird Survey
5	Grassland Sauer	Grassland Species as Defined by Sauer et al. (2013)

RegionCodes.txt: ASCII text file containing the Country, State, Canadian provinces, and U.S. Territories in the Breeding Bird Survey (BBS) data.

#	Variable	Description
1	CountryNum	Numeric code for each country
2	CountryName	Country Name
3	RegionCode	Number code for each State, Canadian Province, and U.S. Territory
4	State/Prov/TerrName	State, Canadian Province, and U.S. Territory Name

RunProtocolID.csv: Comma-delimited ASCII text file containing the run protocol for routes in the Breeding Bird Survey (BBS) data.

#	Variable	Description
1	RPID	Run protocol identification number
2	RunProtocol_English	General description for each RPID
3	RunProtocolDesc	Detailed description for each RPID

Runtype.txt: ASCII text file containing the criteria for acceptable Breeding Bird Survey (BBS) routes, 2010-2014.

Unidentified_speciesList.csv: Comma-delimited ASCII text file containing American Ornithologist's Union (AOU) species codes.

#	Variable	Description
1	AOU	American Ornithologist's Union code
2	common_name	Common name