USER'S GUIDE

A complete description of the figures and data files included in:
Wildlife population and harvest data for Forest Service 2010 RPA assessment

Version 1

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(minor updates 2/27/23)

Contents

Introduction

This data product contains the figures and underlying data from the General Technical Report: "Wildlife population and harvest trends in the United States: A technical document supporting the Forest Service 2010 RPA Assessment". The figures from the report are included in this data product along with the data, which are available as either ArcGIS files (GIS data) or comma-delimited ASCII text files (tabular data). This document contains a list of all the figures and data files. It also includes a complete description of every variable in the tabular data files. A list of specific variables included in the GIS data files are available in the metadata document (*.shp.xml) associated with each file, which are available through the full data product download.

References

Flather, Curtis H.; Knowles, Michael S.; Jones, Martin F.; Schilli, Carol. 2013. Wildlife population and harvest trends in the United States: A technical document supporting the Forest Service 2010 RPA Assessment. Gen. Tech. Rep. RMRS-GTR-296. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 94 p. https://doi.org/10.2737/RMRS-GTR-296

Figures

Within the data product these JPG files can be found under: \Supplements...

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Appendix_C_invertebrates.jpg	County-level counts of invertebrate species formally listed as threatened and endangered.
Appendix_C_mammals.jpg	County-level counts of mammal species formally listed as threatened and endangered.
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GIS data

Within the data product 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.

SHPfile Name	Folder	File Description
st2m_NTH_RPA_ALB	Fig_1	State boundaries for the RPA Northern Region
st2m_PAC_RPA_ALB	Fig_1	State boundaries for the RPA Pacific Coast Region
st2m_RMT_RPA_ALB	Fig_1	State boundaries for the RPA Rocky Mountain Region
st2m_STH_RPA_ALB	Fig_1	State boundaries for the RPA Southern Region
atlantic_flyway	Fig_8and10	County boundaries for the Atlantic Flyway
central_flyway	Fig_8and10	County boundaries for the Central Flyway
mississippi_flyway	Fig_8and10	County boundaries for the Mississippi Flyway
pacific_flyway_no_AK	Fig_8and10	County boundaries for the Pacific Flyway, excluding AK
woodcock_central_region	Fig_12and13	State boundaries for the Woodcock Central Region
woodock_eastern_region	Fig_12and13	State boundaries for the Woodcock Eastern Region
dove_central_mu	Fig_14and15	State boundaries for the Dove Central Management Unit
dove_eastern_mu	Fig_14and15	State boundaries for the Dove Eastern Management Unit
dove_western_mu	Fig_14and15	State boundaries for the Dove Western Management Unit
ak_cty_2001	Fig_25and26	Burrough and State boundaries of Alaska
ak_st_2001	Fig_25and26	State boundaries of Alaska
cty_2001_l48	Fig_25and26	County boundaries of the Lower 48 United States
hi_cty_2001	Fig_25and26	Boundary of Hawaii
st2m_Alb	Fig_25and26	State boundaries of the Lower 48 United States
st2m_dis_polygon	Fig_25and26	Boundary outline of the Lower 48 State boundaries of the United States

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

Appendix_C.csv: Comma-delimited ASCII text file containing county-level counts of species formally listed as threatened and endangered by broad species groupings. (Missing data are represented with a -9999).

     Additional Notes:
- The use of "cg" and "ig" respresent "complete taxonomic group" or "incomplete taxonomic group." "Complete" means that NatureServe tracks all native taxa for the group, and both range and EO data is available for the group. "Incomplete" means that the species counts are based solely on whatever available EO data exists.
- Conservations ranks are defined as: G1=critically imperiled, G2=imperiled, and G3=vulnerable to extirpation or extinction.

#	Variable Name	Description
1	FIPS	Federal Information Processing Standard (FIPS) state-county .
2	esa_global_tot	Total number of species per county formally listed by the Ecological Society of America (ESA) as threatened or endangered.
3	esa_global_vascplnt	Total number of vascular plants per county formally listed by the ESA as threatened or endangered.
4	esa_global_funglich	Total number of fungi or lichen species per county formally listed by the ESA as threatened or endangered.
5	esa_global_invert	Total number of invertebrates per county formally listed by the ESA as threatened or endangered.
6	esa_global_vert	Total number of vertebrates per county formally listed by the ESA as threatened or endangered.
7	esa_global_mamm	Total number of mammals per county formally listed by the ESA as threatened or endangered.
8	esa_global_bird	Total number of birds per county formally listed by the ESA as threatened or endangered.
9	esa_global_amphib	Total number of amphibians per county formally listed by the ESA as threatened or endangered.
10	esa_global_rept	Total number of reptiles per county formally listed by the ESA as threatened or endangered.
11	esa_global_FWfish	Total number of freshwater fish per county formally listed by the ESA as threatened or endangered.
12	g13_tot_cg	Total number of species per county with a NatureServe conservation rank of G1, G2, or G3.
13	g13_amphib_cg	Total number of amphibian species per county with a NatureServe conservation rank of G1, G2, or G3.
14	g13_bird_cg	Total number of bird species per county with a NatureServe conservation rank of G1, G2, or G3.
15	g13_mamm_cg	Total number of mammal species per county with a NatureServe conservation rank of G1, G2, or G3 (critically imperiled, imperiled, or vulnerable to extirpation or extinction, respectively).
16	g13_rept_cg	Total number of reptile species per county with a NatureServe conservation rank of G1, G2, or G3 (critically imperiled, imperiled, or vulnerable to extirpation or extinction, respectively).
17	g13_vascplnt_cg	Total number of vascular plant species per county with a NatureServe conservation rank of G1, G2, or G3 (critically imperiled, imperiled, or vulnerable to extirpation or extinction, respectively).

#		Description
18	g13_vert_cg	Total number of vertebrate species per county with a NatureServe conservation rank of G1, G2, or G3 (critically imperiled, imperiled, or vulnerable to extirpation or extinction, respectively).
19	g13_FWfish_ig	Total number of freshwater fish species per county with a NatureServe conservation rank of G1, G2, or G3 (critically imperiled, imperiled, or vulnerable to extirpation or extinction, respectively).
20	g13_funglich_ig	Total number of fungi or lichen species per county with a NatureServe conservation rank of G1, G2, or G3.
21	g13_invert_ig	Total number of invertebrate species per county with a NatureServe conservation rank of G1, G2, or G3.
22	g13_nonvasc_ig	Total number of nonvascular plant species per county with a NatureServe conservation rank of G1, G2, or G3.
23	ESA_global_herp	Total number of amphibian and reptile species per county formally listed by the ESA as threatened or endangered.
24	G13_herp_cg	Total number of amphibian and reptile species per county with a NatureServe conservation rank of G1, G2, or G3.

Figure_2_4_pop_line_graphs.csv: Comma-delimited ASCII text file containing population estimates for commonly harvested big game and small game species. Data compiled from State responses to forms requesting updates from previous RPA Assessment efforts.

#	Variable Name	Description
1	year	Year of assessment
2	state_fips	Federal Information Processing Standard (FIPS) state numeric code
3	state	FIPS state character code
4	species	Species code depicting the first three letters of the genus and species
5	common_name	Common name of assessed animal
6	class	Code depicting type of animal (2 = Bird, 3 = Mammal)
7	total	Statewide population estimates for big game and small game species as provided by State agency.

Figure_3_6_harv_line_graphs.csv: Comma-delimited ASCII text file containing harvest estimates for commonly harvested big game and small game species. Data compiled from State responses to forms requesting updates from previous RPA Assessment efforts.

#	Variable Name	Description
1	year	Year of assessment
2	state_fips	Federal Information Processing Standard (FIPS) state numeric code
3	State	FIPS state character code
4	species	Species code depicting the first three letters of the genus and species
5	common_name	Common name of assessed animal
6	class	Code depicting type of animal (2 = Bird, 3 = Mammal)
7	total	Statewide harvest estimates for big game and small game species as provided by State agency.

Figure_5.csv: Comma-delimited ASCII text file containing long-term trend data for upland game birds. The species trends covers multiple time periods between 1966 and 2008 (***years*** in the table below contains the last 2 digits of the starting and the last 2 digits of the ending, e.g. 6608 represents 1966-2008) as well as the four RPA Regions (***LOC***: NOR=North, SOU=South, ROC=Rocky Mountain, and PAC=Pacific Coast) and the United States (***LOC***: USA). (When there are no data to be recorded, this is represented with a ".")

Variable Name	Description
AOU	American Ornithologists' Union (AOU) species
SCI_NAME	Scientific name of bird
common_name	Common name of bird
trend_***years_LOC***	Long-term population trends of upland game birds for the specified period of time (***years*** = 6608 or 9708 as defined above) and location (***LOC***=NOR, SOU, ROC, PAC, or USA as defined above).
ci_l95_ ***years_LOC***	Lower 95% confidence interval for the population trends of upland game birds for the specified period of time and location.
ci_u95_ ***years_LOC***	Upper 95% confidence interval for the population trends of upland game birds for the specified period of time and location.
n_***years_LOC***	Total number of the upland game birds of the specified species found in the U.S.

Figure_7_bar_graph.csv: Comma-delimited ASCII text file containing the population objectives as specified by the North American Waterfowl Plan for the ten (10) principal duck species.

#	Variable Name	Description
1	Species	Species of duck
2	2010 Population	2010 population estimate
3	2010 Population Objective	2010 population objective as reported by the North American Waterfowl Management Plan.
4	2010 Index	2010 population index of population estimate to population objective

Figure_7_line_graph.csv: Comma-delimited ASCII text file containing the estimated duck populations for the United States, 1955-2010.

#	Variable Name	Description
1	Year	Year of estimate
2	Breeding_Duck_Estimate	Estimate of breeding ducks for year, in millions

Figure_8.csv: Comma-delimited ASCII text file containing the trends in total duck harvests from 1961 to 2008 for the nation and by administrative flyway. (When there are no data to be recorded, this is represented as ".")

#	Variable Name	Description
1	Year	Year of harvest counts of ducks
2	Af	Atlantic flyway duck harvest count, in millions
3	af_pct_us	Atlantic flyway duck harvest count, as a percent of total U.S. population.
4	Mf	Mississippi flyway duck harvest count, in millions
5	mf_pct_us	Mississippi flyway duck harvest count as a percent of total U.S. population.
6	Cf	Central flyway duck harvest count, in millions
7	cf_pct_us	Central flyway duck harvest count, as a percent of total U.S. population.
8	Pf	Pacific flyway duck harvest count, in millions
9	pf_pct_us	Pacific flyway duck harvest count, as a percent of total U.S. population.
10	Af	Alaska duck harvest count, in millions
11	af_pct_us	Alaska duck harvest count, as a percent of total U.S. population.
12	pf_ak	Pacific flyway (including Alaska) duck harvest count, in millions
13	pf_ak_pct_us	Pacific flyway (including Alaska) duck harvest count, as a percent of total U.S. population.
14	Us	U.S. total duck harvest count, in millions

Figure_9a-d.csv: Comma-delimited ASCII text file containing Canada goose trends for specific populations, 1970-2010. (When there are no data to be recorded, this is represented as ".")

#	Variable Name	Description
1	Year	Year of population count
2	NAP	North Atlantic population, in thousands
3	AP	Atlantic population count, in thousands
4	AFRP(new estimates)	Atlantic Flyway Resident population count, in thousands (a new methodology for calculating total population was developed and it is not comparable to the previous [old] methodology)
5	SJBP	Southern James Bay population count, in thousands
6	MVP	Mississippi Valley population count, in thousands
7	MFGP	Mississippi Flyway Giant population count, in thousands
8	EPP	Eastern Prairie population count, in thousands
9	WPP/GPP	Western Prairie and Great Plains population count, in thousands
10	TGPP	Tall Grass Prairie population count, in thousands
11	SGPP	Short Grass Prairie population count, in thousands
12	HLP	Hi-Line population count, in thousands
13	RMP	Rocky Mountain population count, in thousands
14	Dusky	Dusky population count, in thousands
15	Cackling	Cackling population count, in thousands
16	Aleutian	Aleutian population count, in thousands
17	AFRP(old estimates)	Atlantic Flyway Resident population count, in thousands (outdated methodology for calculating total population)

Figure_9e.csv: Comma-delimited ASCII text file containing Tundra Swan indices for the Eastern and Western populations, 1970-2010. (When there are no data to be recorded, this is represented as ".")

#	Variable Name	Description
1	Year	Year of tundra swan population count
2	Western	Western region tundra swan population count, in thousands
3	Eastern	Eastern region tundra swan population count, in thousands

Figure_10.csv: Comma-delimited ASCII text file containing the total goose harvest for the US and administrative flyway (Atlantic, Mississippi, Central, and Pacific), 1961-2008.

#	Variable Name	Description
1	year	Year of geese harvest counts
2	af	Atlantic flyway goose harvest count, in thousands
3	af_pct_us	Atlantic flyway goose harvest count, as a percent of total U.S. population.
4	mf	Mississippi flyway goose harvest count, in thousands
5	mf_pct_us	Mississippi flyway goose harvest count, as a percent of total U.S. population.
6	cf	Central flyway goose harvest count, in thousands
7	cf_pct_us	Central flyway goose harvest count, as a percent of total U.S. population.
8	pf	Pacific flyway goose harvest count, in thousands
9	pf_pct_us	Pacific flyway goose harvest count, as a percent of total U.S. population.
10	af	Alaska goose harvest count, in thousands
11	af_pct_us	Alaska goose harvest count, as a percent of total U.S. population.
12	pf_ak	Pacific flyway (including Alaska) goose harvest count, in thousands
13	pf_ak_pct_us	Pacific flyway (including Alaska) goose harvest count, as a percent of total U.S. population.
14	us	U.S. total goose harvest count, in thousands

Figure_11.csv: Comma-delimited ASCII text file containing the total tundra swan harvest for the U.S. and Eastern and Western populations, 1962-2007. (No data represented as ".")

#	Variable Name	Description
1	Year	Year of tundra swan harvest and population counts
2	MT	Eastern population: tundra swan harvest count for Montana
3	ND	Eastern population: tundra swan harvest count for North Dakota
4	SD	Eastern population: tundra swan harvest count for South Dakota
5	NC	Eastern population: tundra swan harvest count for North Carolina
6	VA	Eastern population: tundra swan harvest count for Virginia
7	E_TOTAL	Eastern population: total tundra swan harvest count
8	UT	Western population: tundra swan harvest count for Utah
9	NV	Western population: tundra swan harvest count for Nevada
10	MT	Western population: tundra swan harvest count for Montana
11	AK	Western population: tundra swan harvest count for Arkansas
12	W_TOTAL	Western: total tundra swan harvest count
13	TOTAL	Total tundra swan harvest count for both Eastern and Western populations

Figure_12.csv: Comma-delimited ASCII text file containing woodcock population trends for the U.S. and management region (Eastern and Central), 1968-2010. (No data represented as ".")

#	Variable Name	Description
1	Year	Year of woodcock population count
2	Eastern	Woodcock population trends in the Eastern management region of the U.S.
3	Central	Woodcock population trends in the Central management region of the U.S.
4	US	Woodcock population trends for the continental U.S.

Figure_13.csv: Comma-delimited ASCII text file containing woodcock harvest trends for the U.S. and management region (Eastern and Central), 1999-2009. (No data represented as ".")

#	Variable Name	Description
1	Year	Year of woodcock harvest trend
2	Eastern	Woodcock harvest trends in the Eastern management region of the U.S.
3	Central	Woodcock harvest trends in the Central management region of the U.S.
4	US	Woodcock harvest trends for the continental U.S.

Figure_14.csv: Comma-delimited ASCII text file containing mourning dove population trends by management unit (Eastern, Central, and Western), 1966-2010.

#	Variable Name	Description
1	Year	Year of mourning dove population trend assessment
2	Eastern	Mourning dove population trends in the Eastern management region of the U.S.
3	Central	Mourning dove population trends in the Central management region of the U.S.
4	Western	Mourning dove population trends in the Western management region of the U.S.

Figure_14_national.csv: Comma-delimited ASCII text file containing mourning dove population counts for the U.S., 2003-2009.

#	Variable Name	Description
1	Year	Year of mourning dove population count
2	N_CMU	Mourning dove abundance estimate for the Central management unit
3	N_se_CMU	Mourning dove standard error for the Central management unit
4	N_cv_CMU	Mourning dove coefficient of variation for the Central management unit
5	N_ln_CMU	Mourning dove natural log for the Central management unit
6	N_EMU	Mourning dove abundance estimate for the Eastern management unit
7	N_se_EMU	Mourning dove standard error for the Eastern management unit
8	N_cv_EMU	Mourning dove coefficient of variation for the Eastern management unit
9	N_ln_EMU	Mourning dove natural log for the Eastern management unit
10	N_WMU	Mourning dove abundance estimate for the Western management unit
11	N_se_WMU	Mourning dove standard error for the Western management unit
12	N_cv_WMU	Mourning dove coefficient of variation for the Western management unit
13	N_ln_WMU	Mourning dove natural log for the Western management unit
14	N_National	Mourning dove abundance estimate for the U.S.

Figure_15.csv: Comma-delimited ASCII text file containing mourning dove harvest trends for the U.S. and management unit (Eastern, Central, and Western), 1999-2009.

#	Variable Name	Description
1	Year	Year of mourning dove harvest trend assessment
2	EMU	Mourning dove harvest trends in the Eastern management unit of the U.S.
3	CMU	Mourning dove harvest trends in the Central management unit of the U.S.
4	WMU	Mourning dove harvest trends in the Western management unit of the U.S.
5	Total	Mourning dove harvest trend totals for the U.S.

Figure_16_*REGION*.csv: Five comma-delimited ASCII text files containing total furbearer harvest for each of four regions and the entire United States from 1970-2008. Variables raccoon_sum and muskrat_sum are used for the line graphs and all_species_sum for the bar graph. (***REGION***: North=RPA Northern region, Pacific_Coast=RPA Pacific Coast Region, Rocky_Mountain=RPA Rocky Mountain region, South=RPA Southern region, and US=United States)

#	Variable Name	Description
1	Year	Year of furbearer harvest count
2	arctic_fox_sum	Total arctic fox harvest
3	badger_sum	Total badger harvest
4	bassarisk_sum	Total bassarisk harvest
5	beaver_sum	Total beaver harvest
6	bobcat_sum	Total bobcat harvest
7	cougar_sum	Total cougar harvest
8	coyote_sum	Total coyote harvest
9	fisher_sum	Total fisher harvest
10	fox_gray_sum	Total gray fox harvest
11	fox_kit_sum	Total kit fox harvest
12	fox_red_sum	Total red fox harvest
13	fox_swift_sum	Total swift fox harvest
14	gray_wolf_sum	Total gray wolf harvest
15	lynx_sum	Total lynx harvest
16	marten_sum	Total marten harvest
17	mink_sum	Total mink harvest
18	muskrat_sum	Total muskrat harvest
19	nutria_sum	Total nutria harvest
20	opossum_sum	Total opossum harvest
21	otter_sum	Total otter harvest
22	raccoon_sum	Total raccoon harvest
23	skunk_hooded_sum	Total hooded skunk harvest
24	skunk_hognosed_sum	Total hognosed skunk harvest
25	skunk_striped_sum	Total striped skunk harvest
26	squirrel_sum	Total squirrel harvest
27	weasel_sum	Total weasel harvest
28	wolverine_sum	Total wolverine harvest
29	all_species_sum	Total furbearer harvest

Figure_17.csv: Comma-delimited ASCII text file containing average relative (percent) fur harvest by RPA region for the 1970-1995 (previous assessment) and 1996-2008 periods.

#	Variable Name	Description
1	Region	RPA region (North, South, Rocky Mountain, or Pacific Coast)
2	harvest_1970-1995	Fur harvest counts for each region from 1970-1995
3	percent_1970-1995	Average relative (percent) fur harvest for each region from 1970-1995
4	harvest_1996-2008	Fur harvest counts for each region from 1996-2008
5	percent_1996-2008	Average relative (percent) fur harvest for each region from 1996-2008

Figure_18.csv: Comma-delimited ASCII text file containing upper and lower control limits of bird species from 1966-2008 (by broad life-history groupings from AOU: http://www.aou.org/). (Note: This file has the same content as Table_5.csv – it was kept for simplicity for the user)

#	Variable Name	Description
1	AOU	American Ornithologist Union species number
2	Region	RPA region (NOR=North, SOU=South, ROC=Rocky Mountain, PAC=Pacific Coast, or USA=U.S.)
3	Trend	Species trend (yearly percent change)
4	CI_lower	Lower 95% confidence interval for species trend from 1966-2008
5	CI_upper	Upper 95% confidence interval for species trend from 1966-2008
6	N	Number of Breeding Bird Survey (BBS) routes observing species

Figure_18_aous_and_names.csv: Comma-delimited ASCII text file containing American Ornithologists Union (http://www.aou.org/) numbers, common, and scientific names of bird species (by broad life-history groupings).

#	Variable Name	Description
1	AOU	American Ornithologist Union species number
2	COM_NAME	Common name of species
3	SCI_NAME	Scientific name of species

Figure_18_*REGION*.csv: Five comma-delimited ASCII text files containing trends for proportion of bird species (by broad life-history groupings) with decreasing, stable, and increasing trends for all four RPA Regions and the U.S., 1966-2008. (***REGION***: North=RPA Northern region, Pacific_Coast=RPA Pacific Coast Region, Rocky_Mountain=RPA Rocky Mountain region, South=RPA Southern region, and US=United States)

#	Variable Name	Description
1	guild	Broad life-history grouping (e.g. cavity, open cup, ground, midstory, neotropic, short distance, permanent resident, woodland, shrubland, grassland, wetland, or urban)
2	pct_inc	Percentage of the bird species with increasing trends
3	pct_decr	Percentage of the bird species with decreasing trends
4	pct_stable	Percentage of the bird species with stable trends

Figure_19.csv: Comma-delimited ASCII text file containing the proportion of colony (winter and summer) counts with at least four (4) years of survey effort to show evidence of increasing, decreasing, or no trend in bat numbers by RPA Region (North, South, Rocky Mountain, Pacific Coast). Variables include:

#	Variable Name	Description
1	_NAME_	Season and type of trend (season = summer or winter; trend = upward for increasing trend, downward for decreasing trend, and ND for no trend)
2	N	Number of colony counts for the RPA Northern Region
3	PC	Number of colony counts for the RPA Pacific Coast Region
4	RM	Number of colony counts for the RPA Rocky Mountain Region
5	S	Number of colony counts for the RPA Southern Region
6	US	Number of colony counts for the U.S.

Figure_20.csv: Comma-delimited ASCII text file containing county-level incidence of white-nose syndrome (suspected or confirmed) since its discovery in 2006.

#	Variable Name	Description
1	FIPS	Federal Information Processing Standard (FIPS) state-county code
2	wns_date	Description of season when white-nose syndrome was discovered, and whether it was confirmed or suspected

Figure_21_1966_2008.csv: Comma-delimited ASCII text file containing long term (1966-2008) population trends in selected hummingbird species for the nation and by RPA region from the North American Breeding Bird Survey.

#	Variable Name	Description
1	AOU	American Ornithologists Union species number
2	region_6608	RPA region or location (NOR=North, SOU=South, ROC=Rocky Mountain, PAC=Pacific Coast, USA=U.S.)
3	trend_6608	Population trend (yearly percent change)
4	lower_ci_6608	Lower 95% confidence interval for population trend from 1966-2008
5	upper_ci_6608	Upper 95% confidence interval for population trend from 1966-2008
6	n_6608	Number of Breeding Bird Survey (BBS) routes which observed the species from 1966-2008
7	COM_NAME	Common name of hummingbird
8	SCI_NAME	Scientific name of hummingbird

Figure_21_1997_2008.csv: Comma-delimited ASCII text file containing short term (1997-2008) population trends in selected hummingbird species for the nation and by RPA region from the North American Breeding Bird Survey.

#	Variable Name	Description
1	AOU	American Ornithologists Union species number
2	region_9708	RPA region or location (NOR=North, SOU=South, ROC=Rocky Mountain, PAC=Pacific Coast, USA=U.S.)
3	trend_9708	Population trend (yearly percent change)
4	lower_ci_9708	Lower 95% confidence interval for population trend from 1997-2008
5	upper_ci_9708	Upper 95% confidence interval for population trend from 1997-2008
6	n_9708	Number of Breeding Bird Survey (BBS) routes which observed the species from 1997-2008
7	COM_NAME	Common name of hummingbird
8	SCI_NAME	Scientific name of hummingbird

Figure_22.csv: Comma-delimited ASCII text file containing the cumulative number of species listed as threatened or endangered (accounting for delistings) under the Endangered Species Act, from 1 July 1976 through 27 October 2010 for all taxa, plants, animals, vertebrate groups (amphibians, birds, fish, mammals, reptiles), and invertebrate groups (arachnids, crustaceans, insects, and molluscs).

#	Variable Name	Description
1	date	Date (dd-Mon-yy, where dd=day, Mon=month, and yy=year)
2	all_m	Number of mammals listed as threatened or endangered
3	all_b	Number of birds listed as threatened or endangered
4	all_r	Number of reptiles listed as threatened or endangered
5	all_am	Number of amphibians listed as threatened or endangered
6	all_f	Number of fish as threatened or endangered
7	all_s	Number of snails listed as threatened or endangered
8	all_cl	Number of clams listed as threatened or endangered
9	all_cr	Number of crustaceans listed as threatened or endangered
10	all_i	Number of insects listed as threatened or endangered
11	all_ar	Number of arachnids listed as threatened or endangered
12	all_p	Number of plants listed as threatened or endangered
13	all_ani	Number of animals listed as threatened or endangered
14	all_all	Number of all species listed as threatened or endangered
15	end_m	Number of mammals listed as endangered
16	thrt_m	Number of mammals listed as threatened
17	end_b	Number of birds listed as endangered
18	thrt_b	Number of birds listed as threatened
19	end_r	Number of reptiles listed as endangered
20	thrt_r	Number of reptiles listed as threatened
21	end_am	Number of amphibians listed as endangered
22	thrt_am	Number of amphibians listed as threatened
23	end_f	Number of fish listed as endangered
24	thrt_f	Number of fish listed as threatened
25	end_s	Number of snails listed as endangered
26	thrt_s	Number of snails listed as threatened
27	end_cl	Number of clams listed as endangered
28	thrt_cl	Number of clams listed as threatened
29	end_cr	Number of crustaceans listed as endangered
30	thrt_cr	Number of crustaceans listed as threatened
31	end_i	Number of insects listed as endangered
32	thrt_i	Number of insects listed as threatened
33	end_ar	Number of arachnids listed as endangered
34	thrt_ar	Number of arachnids listed as threatened
35	end_p	Number of plants listed as endangered
36	thrt_p	Number of plants listed as threatened
37	end_all	Number of all species listed as endangered
38	thrt_all	Number of all species listed as threatened

Figure_23.csv: Comma-delimited ASCII text file containing the proportion of species occurring in the United States assigned to each NatureServe conservation status rank for vertebrates, invertebrates, and plants.

#	Variable Name	Description
1	informal_tax	Taxonomic group
2	prop_g1	Proportion of species in the U.S. ranked as G1=Critically Imperiled
3	prop_g2	Proportion of species in the U.S. ranked as G2=Imperiled
4	prop_g3	Proportion of species in the U.S. ranked as G3=Vulnerable
5	prop_g4	Proportion of species in the U.S. ranked as G4=Apparently Secure
6	prop_g5	Proportion of species in the U.S. ranked as G5=Secure
7	prop_gh	Proportion of species in the U.S. ranked as GH=Possibly Extinct
8	prop_gnr	Proportion of species in the U.S. ranked as GNR=Not Yet Ranked
9	prop_gu	Proportion of species in the U.S. ranked as GU=Unrankable
10	prop_gx	Proportion of species in the U.S. ranked as GX=Presumed Extinct

Figure_24_*REGION*.csv: Comma-delimited ASCII text file containing the proportion of species occurring in the United States assigned to each of the NatureServe conservation status rank (G1, G2, G3, G4, G5, GH, GNR, GU, and GX) for vertebrates, invertebrates, and plants in each of four RPA regions and entire United States. (*REGION*: North=RPA Northern region, Pacific_Coast=RPA Pacific Coast Region, Rocky_Mountain=RPA Rocky Mountain region, South=RPA Southern region, and US=United States)

#	Variable Name	Description
1	informal_tax	Informal taxonomic group
2	prop_g1	Proportion of species in the U.S. ranked as G1=Critically Imperiled
3	prop_g2	Proportion of species in the U.S. ranked as G2=Imperiled
4	prop_g3	Proportion of species in the U.S. ranked as G3=Vulnerable
5	prop_g4	Proportion of species in the U.S. ranked as G4=Apparently Secure
6	prop_g5	Proportion of species in the U.S. ranked as G5=Secure
7	prop_gh	Proportion of species in the U.S. ranked as GH=Possibly Extinct
8	prop_gnr	Proportion of species in the U.S. ranked as GNR=Not Yet Ranked
9	prop_gu	Proportion of species in the U.S. ranked as GU=Unrankable
10	prop_gx	Proportion of species in the U.S. ranked as GX=Presumed Extinct

Figure_25a.csv: Comma-delimited ASCII text file containing the county-level counts of species formally listed as threatened and endangered under the Endangered Species Act (ESA) in the United States. Variable class_2010 is mapped depicting percentile classes after ranking both large- and small-area counties to account for differential county area. (Missing data are represented with a -9999).

      The variable nomenclature is **RANK_SPECIES**, where:

- **RANK** = Classification under the ESA (esa_global_tot=total species listed as threatened or endangered, c=candidate species, le=species listed as endangered, lt=species listed as threatened, pe=species proposed as endangered, pt=species proposed as threatened).
- **SPECIES** = Taxonomic grouping (Amphib=amphibian, Bird=bird, Funglichfungi-lichen, FWfish=freshwater fish, Invert=invertebrate, Mamm=mammal, Nonvasc=nonvascular plants, Rept=reptile, Tot= all taxa, Vascplnt=vascular plant, Vert=vertebrate).

#	Variable Name	Description
1	COUNTY_NAME	Name of county in the U.S.
	RANK_SPECIES	County-level counts of species by ESA classification.
46	FIPS	Federal Information Processing Standard (FIPS) state-county code
47	big_small	County size classification (B=big, S=small, breakpoint is 910,000 acres)
48	STATE	Numeric state FIPS code
49	COUNTY	Numeric county FIPS code
50	class_2010	Percentile class, where 1= none known, 2=<40%, 3=40%-<80%, 4=80%-<95%, 5=≥95%.

Figure_25b.csv: Comma-delimited ASCII text file containing counties, and their 2000 assessment percentile class that are now included in the highest percentile class based on 2010 occurrence data.

#	Variable Name	Description
1	stfips	Federal Information Processing Standard (FIPS) state-county code
2	plot_var	2000 percentile class and 2010 percentile class, where the first number is the 2000 class and the second number is the 2010 class (1= none known, 2=<40%, 3=40%-<80%, 4=80%-<95%, 5=≥95%).

Figure_26a_counts.csv: Comma-delimited ASCII text file containing county-level counts of species assessed to be at-risk of extinction (conservation status ranks G1, G2, and G3 legend categories reflect approximately the <40th percentile 40-60th percentile 60-80th percentile 80-95th percentile>95% percentile). Variable g13_tot_cg is mapped. Missing data are represented with a -9999.

      The variable nomenclature is **RANK_SPECIES_GROUP**, where:

- *RANK* = NatureServe conservation status rank (G1=Critically Imperiled, G2=Imperiled, G3=Vulnerable, G4=Apparently Secure, G5=Secure, GH=Possibly Extinct, GNR=Not Yet Ranked, GU=Unrankable, GX=Presumed Extinct, G13=Sum of G1, G2, and G3, G15_global=Sum of G1, G2, G3, G4, and G5)
- *SPECIES* = Species taxonomic group (Amphib=amphibian, Bird=bird, Funglich=Fungi-Lichen, FWfish=freshwater fish, Invert=invertebrate, Mamm=mammal, Nonvasc=nonvascular plant, Rept=reptile, Tot=Sum of taxonomic groups, Vascplnt=vascular plant, Vert=vertebrate)
- **GROUP** = cg=complete group, ig=incomplete group (See notes under Appendix C for detailed explanation).

#	Variable Name	Description
1	FIPS	Federal Information Processing Standard (FIPS) state-county code
2	COUNTY_NAME	Name of county in the U.S.
3	*RANK_SPECIES_GROUP*	County-level counts of species assessed to be at-risk of extinction

Figure_26b_pies.csv: Comma-delimited ASCII text file containing the proportion of extirpated species that were plant, vertebrate, and invertebrate species for the states with high number of at-risk species.

#	Variable Name	Description
1	Ipv	Species type (I=invertebrates, V=vertebrates, and P=plants)
2	AL	Proportion of species assessed to be at-risk of extinction in Alabama
3	DE	Proportion of species assessed to be at-risk of extinction in Delaware
4	HI	Proportion of species assessed to be at-risk of extinction in Hawaii
5	NC	Proportion of species assessed to be at-risk of extinction in North Carolina
6	NY	Proportion of species assessed to be at-risk of extinction in New York
7	OH	Proportion of species assessed to be at-risk of extinction in Ohio
8	PA	Proportion of species assessed to be at-risk of extinction in Pennsylvania
9	WV	Proportion of species assessed to be at-risk of extinction in West Virginia

Figure_26b_state_counts.csv: Comma-delimited ASCII text file containing state-level counts of species considered to be extirpated from a state (legend categories reflect approximately the <30th percentile 30-50th percentile 50-70th percentile 70-85th percentile >85th percentile.

#	Variable Name	Description
1	st_fips	Federal Information Processing Standard (FIPS) state-county code
2	SUBNATION	FIPS state code
3	COUNT	Number of species considered to be extirpated

Figure_27.csv: Comma-delimited ASCII text file containing the mean estimated forest bird richness on a survey route over the 2007-2009 period using the North American Breeding Bird Survey.

#	Variable Name	Description
1	strte	Federal Information Processing Standard (FIPS) state-county code
2	page_est_spp	Mean estimated forest bird richness, 2007-2009

Figure_28.csv: Comma-delimited ASCII text file containing the projected changes in forest bird richness, by life-history group, based on land use and housing density changes projected to 2060 under scenario RPA A1B.

#	Variable Name	Description
1	Year	Year
2	a1_Forest_Birds	Relative change in forest bird richness. The title refers to a guild (all forest associated species) while the variables refer to life history groups (i.e., those that prefer interior or ground nesting, etc.).
3	a1_Ground_nesting	Relative change in bird richness for ground nesting species
4	a1_Interior_nesting	Relative change in bird richness for interior nesting species
5	a1_Neotropical_migrants	Relative change in bird richness for neotropical migrants
6	a1_Synanthropes	Relative change in bird richness for synanthropes

Figure_29a-b.csv: Comma-delimited ASCII text file containing (a) changes in bird richness forspecies that breed in forest habitats and (b) changes in bird richness for species that prefer to breed in interior forest conditions for each RPA scenario (A1B = a future characterized by rapid economic growth with a global population that peaks mid-century and then declines, A2, = a continuously increasing global population and more regionally oriented economic growth, and B2 = a future with lower population growth and intermediate economic growth where local solutions are favored over global integration.

#	Variable Name	Description
1	Year	Year
2	a1b_Forest_Birds	Relative change for species that breed in forest habitats
3	a1b_Ground_nesting	Relative change for ground nesting species
4	a1b_Interior_nesting	Relative change for interior nesting species
5	a1b_Neotropical_migrants	Relative change for neotropical migrants
6	a1b_Synanthropes	Relative change for synanthropes
7	a2_Forest_Birds	Relative change for species that breed in forest habitats
8	a2_Ground_nesting	Relative change for ground nesting species
9	a2_Interior_nesting	Relative change for interior nesting species
10	a2_Neotropical_migrants	Relative change for neotropical migrants
11	a2_Synanthropes	Relative change for synanthropes
12	b2_Forest_Birds	Relative change for species that breed in forest habitats
13	b2_Ground_nesting	Relative change for ground nesting species
14	b2_Interior_nesting	Relative change for interior nesting species
15	b2_Neotropical_migrants	Relative change for neotropical migrants
16	b2_Synanthropes	Relative change for synanthropes

Table_5.csv: Comma-delimited ASCII text file containing the number of breeding bird species with increasing, decreasing, and stable trends from 1966 to 2008. (Note: This file has the same content as Figure_18.csv – it was kept for simplicity for the user)

#	Variable Name	Description
1	AOU	American Ornithologists' Union (AOU)
2	Region	RPA region (NOR=North, SOU=South, ROC=Rocky Mountain, PAC=Pacific Coast, or USA=U.S.)
3	Trend	Species trend (yearly percent change)
4	LowerCI	Lower 95% confidence interval for species trend from 1966-2008
5	UpperCI	Upper 95% confidence interval for species trend from 1966-2008
6	N	Number of Breeding Bird Survey (BBS) routes observing species

Table_5_6_aou_species.csv: Comma-delimited ASCII text file containing American Ornithologists Union (http://www.aou.org/) numbers, common, and scientific names of bird species (by broad life-history groupings).

#	Variable Name	Description
1	AOU	American Ornithologists' Union (AOU) species
2	COM_NAME	Common name of bird
3	SCI_NAME	Scientific name of bird

Table_6.csv: Comma-delimited ASCII text file containing the number of breeding bird species with increasing, decreasing, and stable trends from 1997 to 2008.

#	Variable Name	Description
1	AOU	American Ornithologists' Union (AOU)
2	Region	RPA region (NOR=North, SOU=South, ROC=Rocky Mountain, PAC=Pacific Coast, or USA=U.S.)
3	Trend	Species trend (yearly percent change)
4	LowerCI	Lower 95% confidence interval for species trend from 1997-2008
5	UpperCI	Upper 95% confidence interval for species trend from 1997-2008
6	N	Number of Breeding Bird Survey (BBS) routes observing species

Table 7.csv: Comma-delimited ASCII text file containing the number of amphibians of conservation concern as determined by various criteria.

Additional Notes:
- NatureServe conservations ranks begin with a 'G' for global, an 'S' for subnational (e.g. state in this case), or a 'T' for infraspecific taxon which refers to subspecies (applies to plants and animal species only – not ecological communities)
- NatureServe conservation ranks are defined as: 1=Critically imperiled, 2=Imperiled, 3=Vulnerable, 4=Apparently Secure, 5=Secure, H=Possibly Extinct, NR=Not Yet Ranked, U=Unrankable, X=Presumed Extinct, Q=Questionable taxonomy that may reduce conservation priority, and C=Captive or Cultivated only
- USESA status codes are defined as: LE=Listed endangered, LT=Listed threatened, PE=Proposed endangered, PT=Proposed threatened, C=Candidate, and PS=Partial status (implied U.S. ESA)

#	Variable Name	Description
1	Element_global_id	NatureServe global recorded identifier
2	Informal_tax	Informal taxonomic group
3	Kingdom	Kingdom
4	Phylum	Phylum
5	Taxclass	Class
6	Taxorder	Order
7	Family	Family
8	Genus	Genus
9	Gname	Scientific Name
10	Gcomname	Common Name
11	G_rank	NatureServe conservation status rank
12	Rounded_g_rank	NatureServe conservation status rank rounded to a single character
13	G_rank_change_date	Date the conservation status rank was last changed
14	G_rank_review_date	Date the conservation status rank was last reviewed
15	USESA_cd	Official federal status assigned under the U.S. Endangered Species Act
16	Interpreted_USESA	Either the current status of the taxon designated under the U.S. Endangered Species Act or the current status as interpreted by NatureServe Central Sciences.
17	USESA_date	Publication date of the Federal Register notice containing the status of the taxon designated under the U.S. Endangered Species Act
18-67	*STATE*	NatureServe conservation status of a species from a subnational (i.e., state/province) perspective.