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Data question

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Here are some more explicit descriptions:

Variable	Definition	Data source
Federal listing status	Defined as either "listed" for all species that were listed as endangered or threatened between 1996 and 2018, or "precluded" for species that were identified as being removed from the candidate species list as a result of a conservation program.	USFWS ECOS. Downloaded on 3/25/19. Precluded species identified from dataset provided by FWS through personal communication on 12/12/18.
Year listed	The year that the species was listed as threatened or endangered under the endangered species act, or the year that the candidate species was removed from the candidate list via a conservation program.	USFWS ECOS. Downloaded on 3/25/19. Precluded species identified from dataset provided by FWS through personal communication on 12/12/18.
Species group	The species' taxonomic group, as defined on the USFWS ECOS database. Includes: mammals, birds, reptiles, amphibians, fishes, clams, snails, insects, arachnids, crustaceans, flowering plants, conifers and cycads, ferns and allies, and lichens.	USFWS ECOS. Downloaded on 3/25/19.
Regions of occurrence	Broad region in US, as defined on FWS ECOS database (regions 1-8).	USFWS ECOS. Downloaded on 3/25/19.

US/Foreign	Species' domestic vs international range, as defined by FWS ECOS database.	USFWS ECOS. Downloaded on 3/25/19.
Vertebrate/Invert/plant	Species broad taxonomic category, defined as either vertebrate, invertebrate, or plant.	USFWS ECOS. Downloaded on 3/25/19.
Number of counties & county names	All of the counties that the species is known to exist in.	USFWS Data Explorer. Downloaded 1/31/20.
Land area of counties occupied	The total land area of all counties occupied by the species (m ²).	US Census Bureau TIGER/LINE shapefile, downloaded 7/1/19.
Threats facing species	List of all broad threats affecting the species at the time of listing. 6 total threat categories; habitat modification, pollution, overutilization, species-species interactions, demographic stochasticity, and environmental stochasticity.	Leu et al. 2019, internal data collection.
Average area weighted footprint pressure in 2009	The average, area weighted per county, human footprint value across all counties the species occupies in 2009.	US Human footprint data, downloaded 8/8/19.
Average area weighted footprint pressure in 1993	The average, area weighted per county, human footprint value across all counties the species occupies in 1993.	US Human footprint data, downloaded 8/8/19.
Change in human footprint pressure	The total change in the human footprint value across all counties a species occupies between 2009 and 1993.	US Human footprint data, downloaded 8/8/19.
Average area weighted built footprint in 2009	The average, area weighted per county, footprint value of built structures across all counties the species occupies in 2009.	US Human footprint data, downloaded 8/8/19.
Average area	The average, area weighted per county,	US Human

weighted built footprint in 1994	footprint value of built structures across all counties the species occupies in 1994.	footprint data, downloaded 8/8/19.
Change in built footprint pressure	The total change in the footprint value of built structures across all counties a species occupies between 2009 and 1993.	US Human footprint data, downloaded 8/8/19.
Average area weighted cropland footprint in 2005	The average, area weighted per county, footprint value of cropland pressure across all counties the species occupies in 2005.	US Human footprint data, downloaded 8/8/19.
Average area weighted cropland footprint in 1992	The average, area weighted per county, footprint value of cropland pressure across all counties the species occupies in 1992.	US Human footprint data, downloaded 8/8/19.
Change in cropland pressure	The total change in the footprint value of cropland pressure across all counties a species occupies between 2005 and 1992. .	US Human footprint data, downloaded 8/8/19.
Average area weighted navigable water structure footprint in 2009	The average, area weighted per county, footprint value of navigable water structure across all counties the species occupies in 2009.	US Human footprint data, downloaded 8/8/19.
Average area weighted navigable water structure footprint in 1994	The average, area weighted per county, footprint value of navigable water structure across all counties the species occupies in 1994.	US Human footprint data, downloaded 8/8/19.
Change in navigable water structure pressure	The total change in the footprint value of navigable water structure pressure across all counties a species occupies between 2009 and 1994.	US Human footprint data, downloaded 8/8/19.
Average area weighted lights footprint in 2009	The average, area weighted per county, footprint value of light pollution across all counties the species occupies in 2009.	US Human footprint data, downloaded 8/8/19.
Average area weighted lights footprint in 1994	The average, area weighted per county, footprint value of light pollution across all counties the species occupies in 1994.	US Human footprint data, downloaded 8/8/19.

Change in lights pressure	The total change in the footprint value of light pollution pressure across all counties a species occupies between 2009 and 1994.	US Human footprint data, downloaded 8/8/19.
Average area weighted pasture land footprint in 2009	The average, area weighted per county, footprint value of light pollution across all counties the species occupies in 2009.	US Human footprint data, downloaded 8/8/19.
Average area weighted pasture land footprint in 1994	The average, area weighted per county, footprint value of light pollution across all counties the species occupies in 1994.	US Human footprint data, downloaded 8/8/19.
Change in pasture land pressure	The total change in the footprint value of light pollution pressure across all counties a species occupies between 2009 and 1994.	US Human footprint data, downloaded 8/8/19.
Average area weighted human population footprint in 2010	The average, area weighted per county, footprint value of human population pressure across all counties the species occupies in 2010.	US Human footprint data, downloaded 8/8/19.
Average area weighted human population footprint in 1990	The average, area weighted per county, footprint value of human population pressure across all counties the species occupies in 1990.	US Human footprint data, downloaded 8/8/19.
Change in human population pressure	The total change in the footprint value of human population pressure across all counties a species occupies between 2010 and 1990.	US Human footprint data, downloaded 8/8/19.
Average area weighted agricultural land value	Using the midpoint year in our time range (2007), calculated the area weighted (per county) average agricultural value of the counties occupied by the species, in \$/acre.	NASS dataset, downloaded on 8/28/19.
Average area weighted employment	The average, area weighted per county, level of employment across all sectors (in number of jobs) for all counties a species exists in.	BEA data set, downloaded on 8/29/19.
Average area weighted employment in construction	The average, area weighted per county, employment level in construction jobs across all counties the species exists in (in number of jobs).	BEA data set, downloaded on 8/29/19.

Average area weighted employment in forestry	The average, area weighted per county, employment level in forestry jobs across all counties the species exists in (in number of jobs).	BEA data set, downloaded on 8/29/19.
Average area weighted employment in mining	The average, area weighted per county, employment level in mining jobs across all counties the species exists in (in number of jobs).	BEA data set, downloaded on 8/29/19.
Average area weighted employment in farming	The average, area weighted per county, employment level in farming jobs across all counties the species exists in (in number of jobs).	BEA data set, downloaded on 8/29/19.
Average area weighted employment in relevant sectors	The average, area weighted per county, employment level in relevant sectors, defined as: construction, forestry, mining, and farming jobs across all counties the species exists in (in number of jobs).	BEA data set, downloaded on 8/29/19.
Average area weighted per capita income	The average, area weighted per county, level of per capita income across all sectors (in \$) for all counties a species exists in.	BEA data set, downloaded on 8/29/19.
Average area weighted income in construction	The average, area weighted per county, income level in construction jobs across all counties the species exists in (in thousands \$).	BEA data set, downloaded on 8/29/19.
Average area weighted income in forestry	The average, area weighted per county, income level in forestry jobs across all counties the species exists in (in thousands \$).	BEA data set, downloaded on 8/29/19.
Average area weighted income in mining	The average, area weighted per county, income level in mining jobs across all counties the species exists in (in thousands \$).	BEA data set, downloaded on 8/29/19.
Average area weighted income in farming	The average, area weighted per county, income level in farming jobs across all counties the species exists in (in thousands \$).	BEA data set, downloaded on 8/29/19.
Average area	The average, area weighted per county,	BEA data set,

weighted income in relevant sectors	income level in relevant sectors, defined as: construction, forestry, mining, and farming jobs across all counties the species exists in (in thousands \$).	downloaded on 8/29/19.
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