County Section Grids and Endangered Species Data

Enclosed is a county section shapefile and a shapefile for all species covered by PRESCRIBE. Additionally, I have divided the species by aquatic and terrestrial and included a shapefile for each of these categories. These species shapefiles represent a visual representation of the data however, they are not comprehensive for any data queries or manipulation because ArcMap does not preserve a one to many ratio (i.e. a section may have more than one species present, but ArcMap will only keep track of one species in the table). The section shapefile is NAD83 projection, but can be re-projected to anything you want as the PRJ file with projection information is included.

I have also included a data table (dbf) for all species covered by PRESCRIBE. The data table is Fox+dbase and is exported so it can be opened in ArcMap or any other program. The database can be related to the county section shapefile to perform data queries in ArcMap. To preserve the one to many relationship between the county section shapefile and the data table (i.e. multiple species in a single section), the data has to be **related** rather than joined in ArcView. If the data is joined you will only get the first species in a section. The shapefile and dbf can be related and then single or multiple species can be selected and layers or shapefiles can be created to illustrate the data.

To relate the species information in ArcMap:

* Open the section grid shapefile, click on it to highlight and right click
* Click Open attribute table
* At the bottom of the table click Options
* Click Joins and Relates
* Click Relate
* Relate on the field COTRS, select the endangered species dbf, and relate on the field COTRS
* Click Options and click Related Tables; the related species table will open

To select sections:

* With the related table open, click Options, and click Select by attributes
* Type in the species that you want to select: ex. “Cname”=’California Red-legged frog’
* Click Options and click Related Tables; the original section grid table with the selections will open

To create a layer or shape-file from selected data:

* Close both tables
* Right click on the section grid and click on Data
* Click on Export Data and export with selected features to create a shapefile
* Repeat process for each species