

Plan Overview

A Data Management Plan created using DMPTool

Title: Bat Species Prevalence in Columbia South Carolina

Creator: Kytt Pavlakovich

Affiliation: University of South Carolina (USC) (sc.edu)

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Bat Species Prevalence in Columbia South Carolina

Data and Materials Produced

Describe the types of data, physical samples or collections, software, curriculum materials, and other materials to be produced in the course of the project. (For collaborative proposals, the DMP must cover all the various data types being collected by each collaborator.)

To discover the prevalence of bat species in Columbia, South Carolina participants will document bats known to inhabit South Carolina:

- Big brown bat (*Eptesicus fuscus*)
- Brazilian free-tailed bat (*Tadarida brasiliensis*)
- Eastern red bat (*Lasiurus borealis*)
- Eastern small-footed bat (*Myotis leibii*)
- Evening bat (*Nycticeius humeralis*)
- Hoary bat (*Lasiurus cinereus*)
- Little brown bat (*Myotis lucifugus*)
- Northern long-eared bat (*Myotis septentrionalis*)
- Northern yellow bat (*Lasiurus intermedius*)
- Rafinesque's big-eared bat (*Corynorhinus rafinesquii*)
- Silver-haired bat (*Lasionycteris noctivagans*)
- Southeastern bat (*Myotis austroriparius*)
- Seminole bat (*Lasiurus seminolus*)
- Tricolored bat (*Perimyotis subflavus*)

The majority of monitoring studies have focused on known bat roosts. Whether roosts are located in trees, buildings, caves, or other confined sites, bats typically exit in one location. Data will be collected using visual counting of individuals or, potentially, electronic counting by using photoelectric beam splitters or ultrasonic detectors.

Five known large roosting locations will be observed for a period of 30 days from August 1-30.

Standards, Formats and Metadata

Describe the standards to be used for all the data types anticipated, including data or file

format and metadata. [Note: Where existing standards are absent or deemed inadequate, this should be documented along with any proposed solutions or remedies.]

Data will be collected in number format in an excel spreadsheet. Excel will provide ways for the student to not only make graphs of various types but also to interact with the data mathematically.

Roles and Responsibilities

Describe the roles and responsibilities of all parties with respect to the management of the data (including contingency plans for the departure of key personnel from the project).

Student will be responsible for gathering the data using digital counters at the 5 roosting locations. Since many bats look similar we may have to rely on several local bat biologist to help us identify bats roosting at each of the 5 locations. Student will be transcribing/recording data received from the digital counter into an excel spreadsheet each day, noting the time of most of the activity coming to and from the roost of each location.

Dissemination Methods

Describe the dissemination methods that will be used to make data and metadata available to others during the period of the award, and any modifications or additional technical information regarding data access after the grant ends.

Data will be recorded using a shared google excel document and data will be share and possibly published with the help of the SCDNR (South Carolina Department of Natural Resources)

Policies for Data Sharing and Public Access

Describe the PI's policies for data sharing, public access and re-use, including re-distribution by others and the production of derivatives. Where appropriate, include provisions for protection of privacy, confidentiality, security, intellectual property rights and other rights.

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Archiving, Storage and Preservation

Where relevant, describe plans for archiving data, samples, software, and other research products, and for on-going access to these products through their lifecycle of usefulness to research and education. Consider which data (or research products) will be deposited for long-term access and where. (What physical and/or cyber resources and facilities (including third party resources) will be used to store and preserve the data after the grant ends?)

Creative Commons and any other Open Education Resource that is legitimate will be allowed to share our findings.
