

Software for Estimating Fatalities of Bats and Birds at Wind Energy Facilities

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2:00-3:00 pm

- ❖ **Introduction**
 - **Background**
 - **Why is estimating fatality so difficult?**
- ❖ **Conceptual models of fatality estimation**
 - **Factors affecting detectability**
- ❖ **Data required to estimate fatality**
 - **SE Trial Data**
 - **CP Trial Data**
 - **Fatality Trial Data**

3:00-3:10 pm Break

3:10-4:00 pm

- ❖ **Example Data Set 1**
- ❖ **Determining Best SE and CP models**
- ❖ **Example Data Set 2**
- ❖ **Summary of Software**
 - **Whom the software is for**
 - **What the software does and does not do**
 - **User responsibilities**
- ❖ **Future Steps**
- ❖ **Questions**

4:00-4:10 pm Break

4:10-5:00 pm Individuals work with their own data

Before the workshop/webinar

Please be sure R is loaded on your machine prior to coming to the workshop/webinar, if you want to follow along in real time. R can be downloaded from www.cran.r-project.org . Select R for Linux, MacOS X or Windows, whichever is appropriate. You will need to know where the R executable resides, most likely in your Program Files if you use Windows.

The Estimator software, sample data sets and current User's Guide can be downloaded from the USGS ftp site. Using internet Explorer type
<ftp://ftpext.usgs.gov/pub/wr/or/corvallis/Huso/>

Copy EstimatorSetup.zip to the folder where you want to work.

Unzip the contents. You should find the following files:

Estimator Project User's Guide.pdf

EstimatorSetup.msi
InputPlaceholder.txt

Site1.Transect.Fatality.csv
Site1.Trial.CP.csv
Site1.Trial.SE.csv
Site2.Transect.Fatality.csv
Site2.Trial.CP.csv
Site2.Trial.SE.csv

Double click on EstimatorSetup.msi and follow instructions for installing the software. Once installed, replace the "InputPlaceholder.txt" file in the installed location (likely in your Program Files/EcostatLLC/Estimator if you use the default path) with the "InputPlaceholder.txt" file found in the zip folder. This is the workhorse of the program and any updates will occur through updates to this file.

The Estimator Project User's Guide will get you started on using the software. The csv files are example files from two fictitious sites, showing expected file format.