

# ReadMe: Analysis for Economic Benefits of Recreation in Canada (Lloyd-Smith, CJE)

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There are 3 steps to recreate the results of the paper. All scripts are available at <https://github.com/plloydsmith/RecBenefitsCanadaCJE>.

## 1. Access the data

The recreation data comes from the Canadian Nature Survey available here <https://biodivcanada.chm-cbd.net/documents/canadian-nature-survey>

The recreation dataset is available to download here <https://open.canada.ca/data/en/dataset/694b9da8-1f06-4ebe-ad38-1b14bdaf756e>

Save the `cns2012pumf.xlsx` file as `Raw2012Data.csv` in the `data/raw` folder

## 2. Clean and create data sets for analysis

- You will need to install the following R packages

```
install.packages("pacman", "tidyverse", "mice", "fastDummies", "furrr", "micemd", "randtoolbox", "rstan", "rmdcev")
```

- Run the `1PrepareData.R` script
- Not that this script involves intensive data imputation and takes a long time to run on a desktop computer (~48 hours on a desktop computer with 32 GB RAM).

## 3. Conduct the analysis and create all the tables/figures in paper

- Run the `2RunAnalysis.R` script