

# The West Brook Story

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# Chapter 1

## Introduction

This book describes accessing, cleaning, and analyzing data from the West Brook Study in Whateley MA, USA.

Use `bookdown::render_book()` to render the book (not showing up in the ‘Build’ tab like the bookdown book says it should).

Use `bookdown::render_book("index.Rmd", "bookdown::gitbook")` to force html book. `preview_chapter("my-chapter.Rmd")` to update just one chapter.

Use `clean_book()` to clean up temporary files.

Before rendering, seem to need to restart R session to avoid an error with `all_of()`

### 1.1 The West Brook

The Ecology Section at the USGS Conte Laboratory has studied fish in the West Brook since 1997. The goal is to understand the strength and direction of drivers on fish growth, movement, reproduction and survival in the wild.

Map (to be added)

Interactive applications allow exploration of the raw data.



# Chapter 2

## Get data

Placeholder

### 2.1 Electrofishing data

#### 2.1.1 Get data

#### 2.1.2 Wrangle data

#### 2.1.3 Explore data

### 2.2 Capture-recapture data

#### 2.2.1 Get data

#### 2.2.2 Wrangle data

#### 2.2.3 Explore data

### 2.3 Wanding data

#### 2.3.1 Get data

#### 2.3.2 Wrangle data

### 2.3.3 Explore data

## 2.4 Antenna data

### 2.4.1 Get data

### 2.4.2 Wrangle data

### 2.4.3 Explore data



## Chapter 3

# Models

List of models will go here

### 3.1 Young-of-year size model

#### 3.1.1 Raw data for YOY model

#### 3.1.2 Get environmental data

#### 3.1.3 Get first observations

#### 3.1.4 Counts of captured fish

#### 3.1.5 Raw data plots

##### 3.1.5.1 Frequency plots by species and river

##### 3.1.5.2 Brook Trout, West brook

##### 3.1.5.3 Brook Trout, wb jimmy

##### 3.1.5.4 Brook Trout, wb mitchell

##### 3.1.5.5 Brook Trout, wb obear

##### 3.1.5.6 Brown Trout, West brook

3.1.5.7 Brown Trout, wb jimmy

3.1.5.8 Brown Trout, wb mitchell

3.1.5.9 Brown Trout, wb obear - there are no Brown trout in O'Bear

3.1.5.10 Trout, in the WB mainstem only

3.1.5.11 Why are there untagged fish bigger than 60mm?

3.1.5.12 Why no untagged fish at all for 2000 and 2001?

3.1.6 Yearly means

3.1.6.1 Models

## Chapter 4

# Final Words

We have finished a nice book.