

# **Exploring Proposed Regulations Reveal Differences Between Freshwater and Saltwater Florida Recreational Anglers**

Supplemental Material 1: Background README File

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## 1. Overview

This README file provides an overview and description of the supplemental material associated with the manuscript titled *Exploring Proposed Regulations Reveal Differences Between Freshwater and Saltwater Florida Recreational Anglers*. The supplemental file includes select data and resources that support the findings presented in the main text. Due to University of Central Florida Institutional Review Board privacy requirements, some data are not able to be publicly published. These data will be made available on reasonable and agreeable request. Please contact the corresponding author.

## 2. File List

File Name	Description and Notes	File Type
Regulation_Supplemental1_BackgroundREADME.pdf	This file – provides additional context and information.	PDF
Regulation_Supplemental2_SurveyTemplate.pdf	This is document that was used to collect information from participants. These are the same questions asked of the online participants. Please note that the highlighted questions were used for this specific study. If the question is not highlighted, then that question was not used for analysis in this study.	PDF
Regulation_Supplemental3ExplanationOfResearch.pdf	This is the research disclosure statement. This statement was shown to online participants before beginning the survey. The online participant then confirmed their eligibility and acknowledgement of the statement by checking a reCAPTCHA box. This statement was shown and read to participants before the participants verbally confirmed their eligibility and acknowledged the statement.	PDF
Regulation_Supplemental4_- SaltwaterAnglerProposedRegulationHistograms.pdf	This documents contains histograms which show the frequency of percent change between the agency-imposed	

File Name	Description and Notes	File Type
	regulation and the regulations proposed by participants.	
Regulation_Supplemental5_LogisticRegressionCode.R	This document contains the Rethinking R-code for the Bayesian logistic regressions.	.R
Regulation_Supplemental6_RegulationData.xlsx	This document contains data used throughout analysis, including the percent change values from agency-imposed regulations to the regulation the participant proposed. Please see the data structure below for more information regarding the layout of the document.	Excel Spreadsheet

### 3. Data Origin, Availability, and Additional Resources

The supplemental files includes select data and resources that support the findings presented in the main text. Due to University of Central Florida Institutional Review Board privacy requirements, some data are not able to be publicly published. A cleaned-up database of all responses will be made available upon reasonable and agreeable request. Please contact corresponding author.

**Data Structure:**

The variables below can be found in the “Regulation\_Supplemental6\_RegulationData” excel file.

Variable Name	Description	Unit / Type
ReferenceNumber	This is an identification number used to track the same response throughout analysis.	Text
SurveyMode	The mode in which the participant submitted their responses.	Text
ExperienceCoded	The code for the participant’s response to how long they have been fishing in Florida. The codes represent the following: 1=0-2 years; 2=3-5 years; 3=6-10 years; 4=11-20 years; 5=21-30 years; and 6=31 or more years.	Integer
MoreRestrictiveCoded	The code for the participant’s response to if they believed a more restrictive regulation would be effective in the conservation of their favorite fish. The codes represent the following: 1= Absolutely Not; 2= I don’t think so; 3=Neutral; 4=It might work; and 5= Absolutely Yes.	Integer
FishOfFocus	The participant’s response to their most target fish, also referred for the purposes of this study as their favorite fish.	Text
FavFishHome	This notes if the fish in the previous column is generally found in saltwater (S) or freshwater (F). This also dictates if we classified the participant as primarily saltwater or freshwater.	Text
RegAppCoded	The code for the participant’s response to if they believe the current agency-imposed regulation is appropriate based on their knowledge and experience. The codes represent the following: 1=Yes; 2=Maybe; and 3=No.	Integer

Variable Name	Description	Unit / Type
RegulationChangeValuePercent	The percent change values from agency-imposed regulations to the regulation the participant proposed. Those that rated the agency-imposed regulation appropriate (e.g., had a rating of 1), did not propose a regulation. An “NA” was used as a placeholder.	Percent
TypeOfRegulationChange	The type of regulation or “unit” associated with the previous column. Those that rated the agency-imposed regulation appropriate (e.g., had a rating of 1), did not propose a regulation. An “NA” was used as a placeholder.	Text

#### 4. Analysis Tools

We conducted our analysis using the following:

- R (version 4.5.0 “How About a Twenty-Six”), with the following package:
  - Ggplot2 (version 3.5.2) for graphing: <https://cran.r-project.org/web/packages/ggplot2/index.html>
  - Dplyr (version 1.1.4) for data handling: <https://cran.r-project.org/web/packages/dplyr/index.html>
  - Rethinking (version 2.13) for statistical modeling: <https://github.com/rmcelreath/rethinking>
- Operating systems: Windows 11 and macOS Ventura
- Qualtrics survey software (Version June 2023-September 2024, Qualtrics, Provo, Utah, USA, available at: <https://www.qualtrics.com>).