

# Fish and Surfers

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*5 minutes before deadline*

## Abstract

We looked at fish and surfers, and draw wild, unsupported conclusions.

## Introduction

There are many fish in California. They have widely been studied [1].

## Methods

We counted fish and surfers, and placed them into tidy dataset [2]. Raw data are provided in Appendix 1.

## Results

Our extensive survey identified a total of 71 Surfers and 167, with 7 species, distributed along 5 Genus and 4 Families.

We tested the relationship between fish abundance and surfers (Fig. 1) with a linear regression with the form:

$$Fish = \beta_0 + \beta_1 Surfers$$

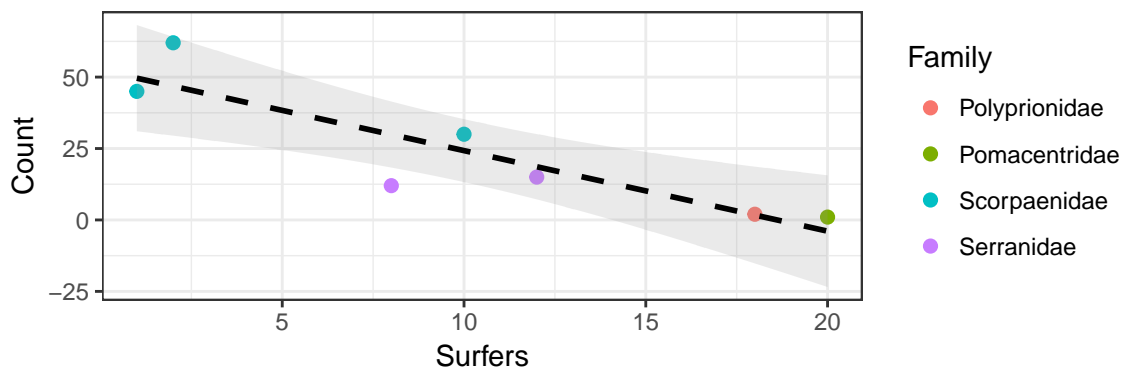


Figure 1: Relationship between fish abundance and surfers

Table 1: My results table!

	<i>Dependent variable:</i>
	Count
Surfers	−2.818*** (0.637)
Constant	52.438*** (7.754)
Observations	7
R <sup>2</sup>	0.796
Residual Std. Error	11.339 (df = 5)
F Statistic	19.567*** (df = 1; 5)
<i>Note:</i>	*p<0.1; **p<0.05; ***p<0.01

## Conclusions

Surfers scare fish.

## References

- [1] M. S. Love, *Certainly more than you want to know about the fishes of the pacific coast: A postmodern experience*. Santa Barbara, CA: Really Big Press, 2011.
- [2] H. Wickham, “Tidy data,” *J Stat Softw*, vol. 59, no. 10, 2014.

Table 2: Appendix 1. Table with raw data

Family	<i>Genus</i>	<i>Species</i>	<b>Count</b>	Surfers	Family	Genus	Species	Count	Surfers	Family	Genus	Species
Pomacentridae	<i>Hypsypops</i>	<i>rubicundus</i>	<b>1</b>	20	Pomacentridae	Hypsypops	rubicundus	1	20	Pomacentridae	Hypsypops	rubicundus
Polyprionidae	<i>Stereolepis</i>	<i>gigas</i>	<b>2</b>	18	Polyprionidae	Stereolepis	gigas	2	18	Polyprionidae	Stereolepis	gigas
Scorpaenidae	<i>Sebastes</i>	<i>hopkinsi</i>	<b>30</b>	10	Scorpaenidae	Sebastes	hopkinsi	30	10	Scorpaenidae	Sebastes	hopkinsi
		<i>paucispinis</i>	<b>45</b>	1	Scorpaenidae	Sebastes	paucispinis	45	1	Scorpaenidae	Sebastes	paucispinis
	<i>Pterois</i>	<i>volitans</i>	<b>62</b>	2	Scorpaenidae	Pterois	volitans	62	2	Scorpaenidae	Pterois	volitans
Serranidae	<i>Paralabrax</i>	<i>clathratus</i>	<b>12</b>	8	Serranidae	Paralabrax	clathratus	12	8	Serranidae	Paralabrax	clathratus
		<i>nebulifer</i>	<b>15</b>	12	Serranidae	Paralabrax	nebulifer	15	12	Serranidae	Paralabrax	nebulifer