Homework 4

Economics 7103
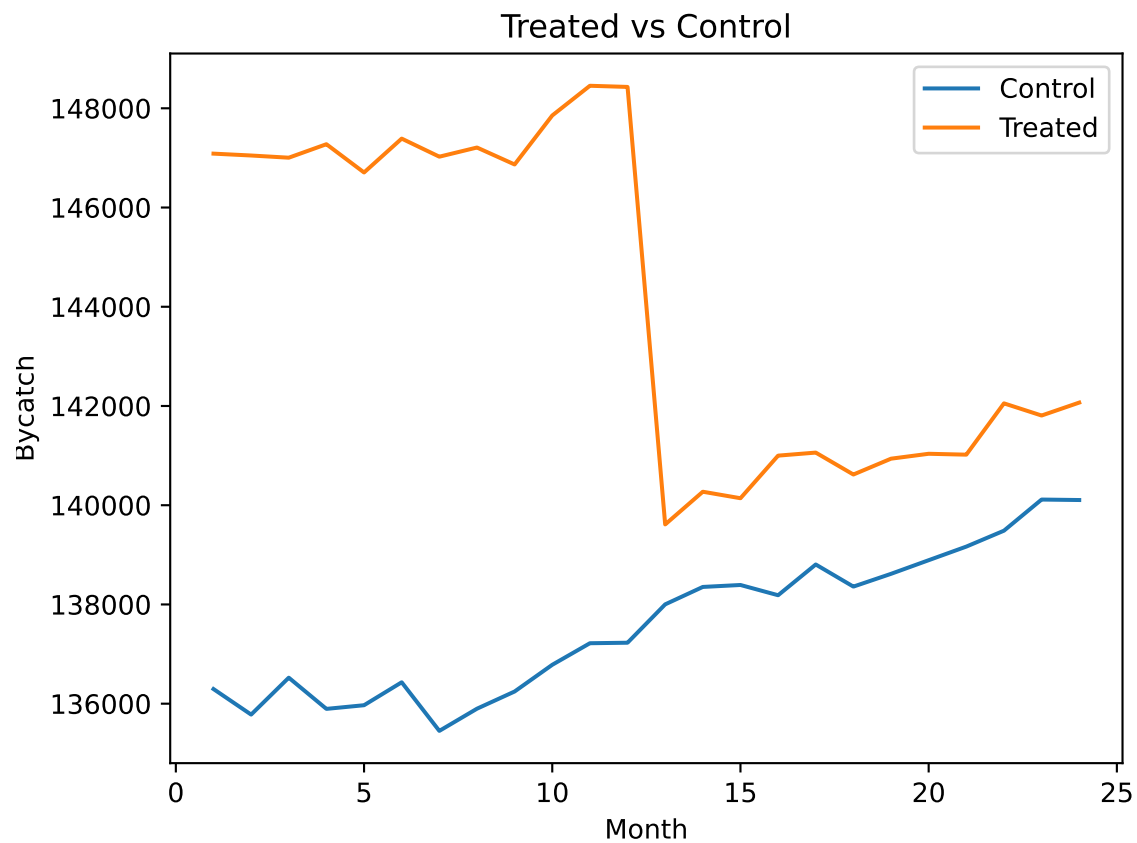
Spring semester 2023

1

See below:

Figure 1: Treatment vs Control

2

The estimate is -9591.35. This means that the treatment group, on average, reduced the bycatch by that amount right after being treated.

3

The different results are as follows:

	(1)	(2)	(3)
Alpha	138001.81	NaN	NaN
	(100507.57, 175496.06)	NaN	NaN
Pre period	-773.22	NaN	NaN
	(-1976.32, 429.89)	NaN	NaN
Treated	11202.04	NaN	NaN
	(-36028.81, 58432.89)	NaN	NaN
Time treated	-9591.35	NaN	NaN
	(-16085.87, -3096.83)	NaN	NaN
Observations	100.0	NaN	NaN
Alpha	NaN	132088.04	NaN
	NaN	(96407.7, 167768.38)	NaN
Treated	NaN	11052.45	NaN
	NaN	(-35515.12, 57620.02)	NaN
Time Treated	NaN	-8956.78	NaN
	NaN	(-15323.66, -2589.91)	NaN
Observations	NaN	1200.0	NaN
Alpha	NaN	NaN	1547.01
	NaN	NaN	(-675.23, 3769.24)
Treated	NaN	NaN	-21.9
	NaN	NaN	(-641.34, 597.54)
Time Treated	NaN	NaN	-8436.28
	NaN	NaN	(-14111.27, -2761.3)
shrimp	NaN	NaN	1.06
	NaN	NaN	(0.95, 1.16)
salmon	NaN	NaN	0.6
	NaN	NaN	(0.18, 1.02)
firmsize	NaN	NaN	-2119.71
	NaN	NaN	(-8966.26, 4726.83)
Observations	NaN	NaN	1200.0

Table 1: Results from different models

4 Stata

VARIABLES	(1) Model (a)	(2) Model (b)
interaction	-8,085.14**	
	(2,619.21)	
salmon	-0.68	
	(1.12)	
shrimp	1.55**	
	(0.18)	
intm		-8,085.14**
		(2,619.21)
shm		1.55**
		(0.18)
salm		-0.68
		(1.12)
Constant	200,542.50	-861.76
	(247,823.77)	(1,186.06)
Observations	1,200	1,200
R-squared	1.00	0.43

Robust standard errors in parentheses
** p<0.01, * p<0.05

Table 2: Stata results
intm = demeaned interaction term shm = demeaned shrimp term salm = demeaned salmon term