

Homework 4

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1. Yes, the trends were parallel before treatment and after treatment we notice a drop in pounds of bycatch on treated, which means that the program was efficient. See graph below:

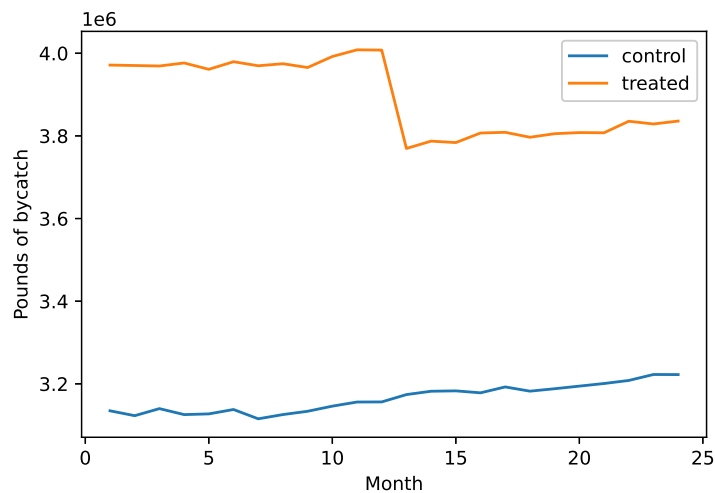


Figure 1: Bycatch for control and treated groups by month.

2. The DID equals -8956.78, which means that bycatch reduces by that amount due to the program. So the estimator shows that the program worked.

3. See table 1:

	Coefficients (s.e.)
lamda(t=2017)	137228.60 (18739.84)
a	2589.66 (-171.93)
g(i)	6406.37 (23343.87)
treat(i,t)	-4406.11 (1860.59)

Table 1: Sample regression coefficients table with standard errors.

The result shows that if a firm is treated then bycatch reduces by 4406 pounds which is less than the amount estimated using sample analog on question 2.