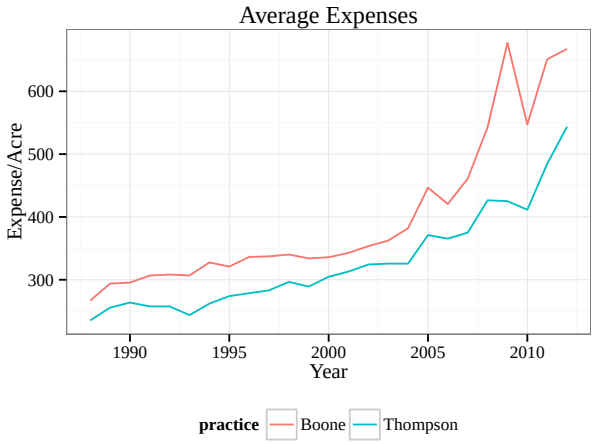
Effect of Additional Income and Expenses

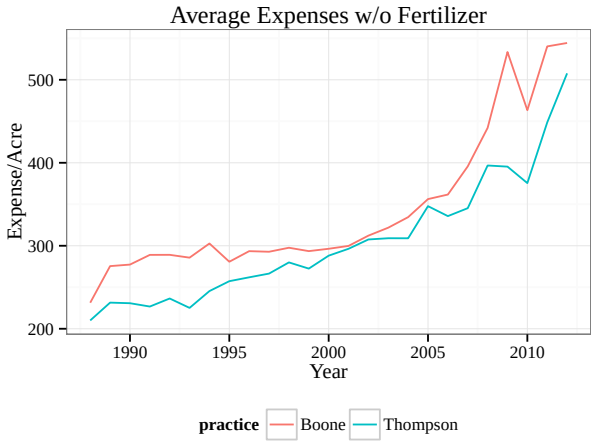
Here we explore the effect of purchased fertilizer on the difference in expenses/profit between the Boone and Thompson farms. Also of interest is the effect of the additional income (and likewise expenses) in the Thompson practices.

Manure Charge and Purchased Fertilizer

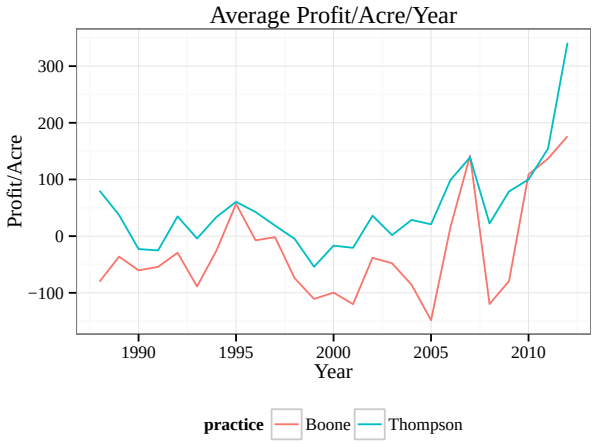
The profit and losses from livestock on the Thompson farms are not included in the data. It is suggested that Thompson fertilized the fields using manure from his livestock, and subsequently has an expense due to spreading manure, but no expenses for purchasing fertilizer. The Boone expenses on the other hand include a large sum (relative to other expenses) for purchasing fertilizer. As livestock costs and profits are not included, it seems reasonable to explore excluding these variables from the analysis. Note: this analysis was done without additional income from straw, stubble, and residue.

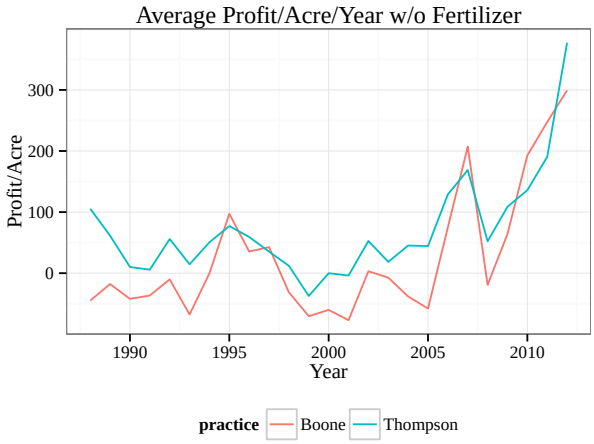
Overall Expenses with/without Purchased Fertilizer





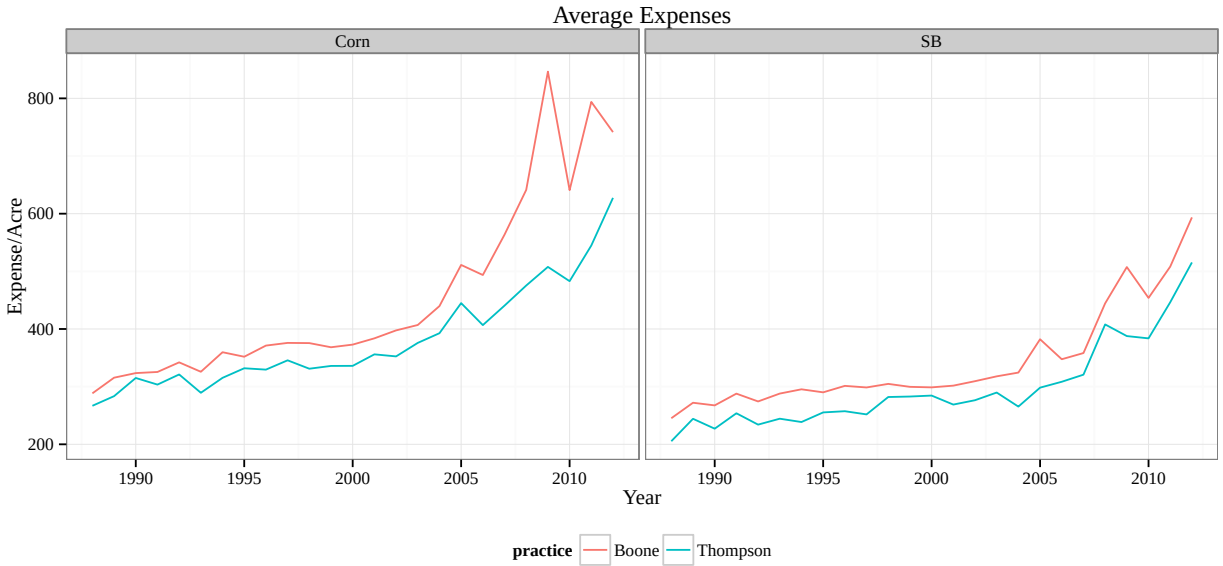
Profit with/without Purchased Fertilizer

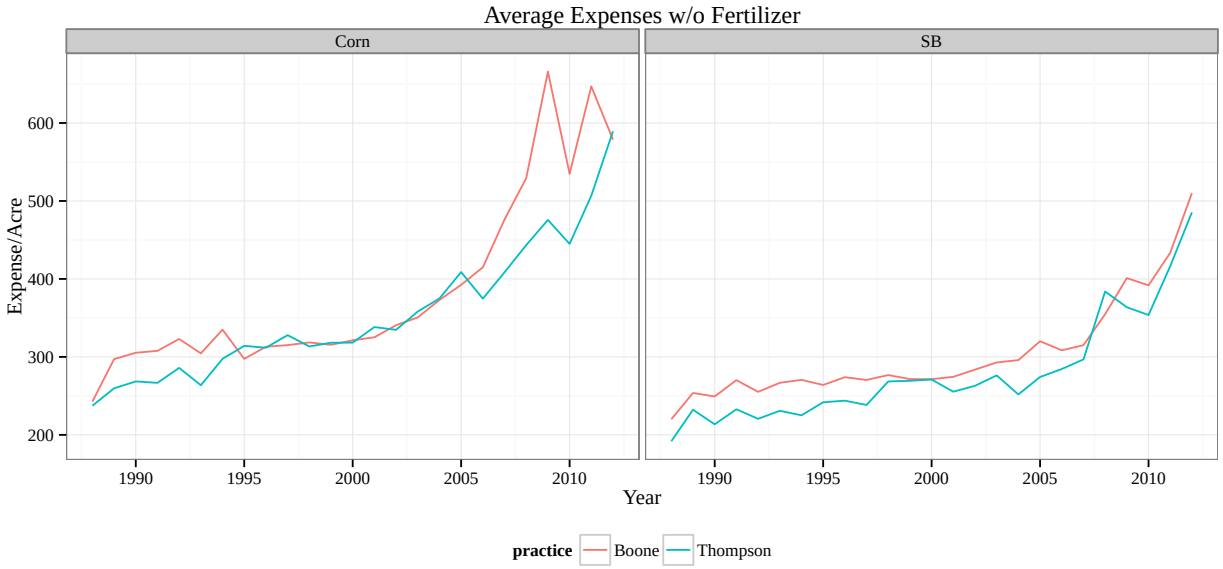




Removal of fertilizer affects seems to lessen the difference in expenses and profit between the Boone and Thompson averages, but the Thompson farm still consistently comes out ahead.

Overall Expenses with/without Purchased Fertilizer



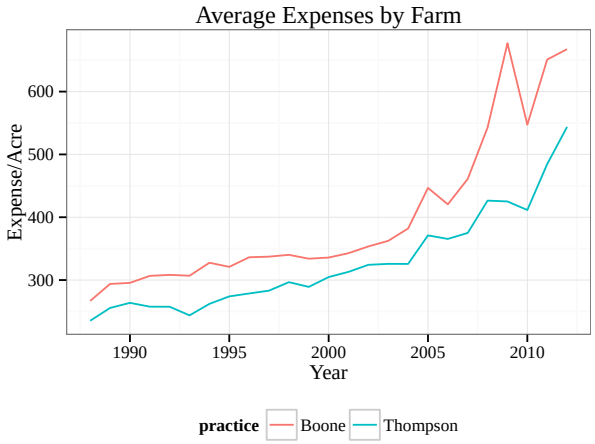


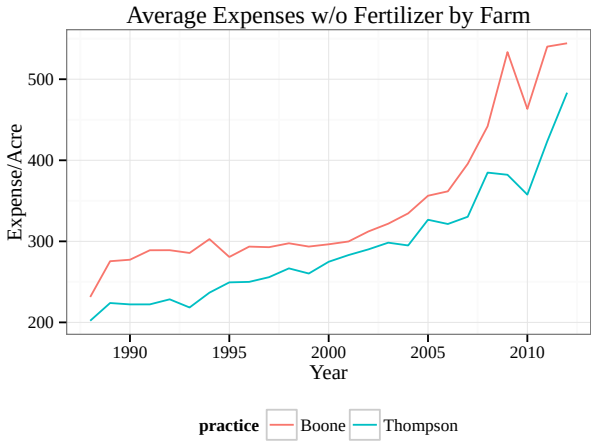
When just looking at corn, expenses for Boone drop considerably and decrease the gap between farms.

Additional Income and Expenses

The exploratory analysis aboves focuses on crop income, ignoring additional income from straw, stubble, and residue. However, we should also remove costs related with these income sources if we don't account for income.

Overall Expenses with/without Additional Expenses/Income





Profit with/without Additional Expenses/Income