

Homework
20 points possible

Due 4/13/2010

True or False (one point each):

- T F 1. Over half of the U.S. corn crop is typically planted by the middle of May.
- T F 2. There are two triggers for the ACRE program, a state-level revenue trigger and a farm-level revenue trigger.
- T F 3. SURE pays the entire difference between the farm guarantee and the actual farm revenue.

Short answer (one point each):

4. With a call option, the buyer pays the premium and has the right, but not the obligation, to _____ a futures contract at the strike price.
5. What is the most common reason crops fail? _____

Long answer (five points each, please show your work):

6. Use the futures and options data on the back. Assume historical expected basis of $-\$0.25$ per bushel and a commission of $\$0.01$ per bushel for both crops.
- What would be the floor price for a $\$4.20$ put option on Dec. 2010 corn?
 - Show me one futures or options strategy that would set a net price for a soybean producer above $\$8.70$ per bushel.
 - Show me one call option strategy that would set a net price for a corn processor below $\$3.70$ per bushel.
 - If I buy a $\$4.00$ put option on Dec. 2010 corn today and hold it until maturity, what's my net price for corn if the basis shift to $-\$0.35$ and the futures price is $\$3.25$ per bushel?
7. For this question, assume the farm has an expected corn yield of 200 bushels per acre. The insurance prices and premiums are given in the slides from last week.
- What would be the net insurance payment (payment minus premium) if you bought 75% yield insurance and had an actual corn yield in 2010 of 122 bushels per acre?
 - What would be the net insurance payment if you bought 75% CRC insurance had the same yield as in part a), and the harvest price was $\$4.20$ per bushel?

