## Farmer for the day



## NC State Farmers

Situation:

- Grain farmer that grows corn and beans
- Expect to grow 100,000 bushels of corn this year
- Corn cost of production is $\$ 500$ per acre or $\$ 4.16$ per bushel (based on 120 avg yld)
- Have inputs locked in so you know your cost per acre
- when given a market update you must decide each time
- Put a Name, Date, and Choice on a piece of paper
- Keep a record of your decisions each time


## Marketing Options

- Cash Price: Lock in price for corn (futures+ basis)
- Ex. $\$ 3.90 \mathrm{cz18}+\$ 0.60=\$ 4.50$ cash price
- Basis contract: Lock in the basis but not the futures prices
- Ex. $\$ 4.50$ cash, $\$ 3.90 c z 18=\$ 0.60$ Basis
- HTA: Lock in the futures but not the basis
- Ex. $\$ 4.50$ cash, $+\$ 0.60$ basis $=\$ 3.90$ futures
- The HTA contract is one that offers the seller of grain the ability to lock in the futures market portion on a cash grain contract. The basis portion of the cash grain contract will be locked in at a later date per contract specifications.
- The buyer of the grain takes the risk on margin calls!


## Rules of the Game

- Must have $100 \%$ of your crop marketed by the end of the game
- Basis contracts must be priced by the end of the game
- HTA contracts must be marketed to market
- Need to have a basis set at some point in the game
- Winner will get the grand prize


US Corn Carryout/ Use vs Corn Price
Source: USDA


- Your corn is not planted yet
- USDA report is predicting a big carryout for 2019
- Funds are record long
- Just purchased a new farm
- Basis = \$0.65
- Futures(cz18)= \$4.08

Date: March $20^{\text {th }} 2018$

NWS 6-10 DAY OUTLOOK: TEMPS \& PRECIP



- Your corn is all planted into great conditions
- The corn belt had delayed planting
- Brazil had a bad second corn crop
- US exports are bigger than expected
- Basis= \$0.60
- Futures= \$4.25


## Date: May 10th 2018

- Your corn looks good but are worried about hot night temps causing yield lost
- Mexico imposed a 5\% tariff on US corn imports
- US corn belt conditions look great
- Basis= \$0.50
- Futures= \$3.98


## Date: June 25th 2018

- The corn looks great but long forecast predicts little to no rain
- Your corn looks great and starting to see some "tip back"
- Oil has rallied to 5 year highs
- Basis: \$0.55
- Futures: \$4.12

Date: July $15^{\text {Th }} 2018$


- Your corn crop is a bumper crop
- North Carolina is going to have a record yield
- US corn belt will have record crop
- You are now harvesting your corn
- Basis: \$0.45
- Futures:\$3.87

Date: August 10th 2018

- You are now done with harvest
- Your operating loan is now due and must market all grain
- South American crop is not looking like it is going to get planted
- Trump and Mexico make a great deal


## Basis:\$0.35

Futures:\$4.30

## Date: September 15 th 2018

## End of the game

- Please hand in your results


## Farmer of the Day Game

$\$ 6.00$
$\$ 5.00$
$\$ 4.0 \mathbf{S}^{\$ 4.08}$

| Strong Futures and <br> relative strong basis <br> combine for the highest <br> cash price of the season |
| :--- | :--- |

$\$ 3.00$
Futures highest based on delayed planting and geopolitical environment
$\$ 2.00$
Basis was the highest first
period-bid for acres
$\$ 1.0 \%$
$\$ 0.60$
$\$ 0.50 \quad \$ 0.55$
$\$ 0.45$ \$0.35
$\$ 0.00$

——Futures ——Basis —Cash

RECOMMENDED MARKETING STRATEGIES FOR DIFFERENT FUTURES PRICE AND BASIS RISK SITUATIONS: The benefits of hindsight


|  | Scenario |  |  | Optimal Strategy Given Hindsight (No Speculating) |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Date | Futures | Basis | Cash | Basis | Futures | Net Cash Price |
| 3/20/2018 | \$4.08 | \$0.65 | \$4.73 | Basis Contract (\$0.65) |  |  |
| 5/10/2018 | \$4.25 | \$0.60 | \$4.85 |  |  |  |
| 6/25/2018 | \$3.98 | \$0.50 | \$4.48 |  |  |  |
| 7/15/2018 | \$4.12 | \$0.55 | \$4.67 |  |  |  |
| 8/10/2018 | \$3.87 | \$0.45 | \$4.32 |  |  |  |
| 9/15/2018 | \$4.30 | \$0.35 | \$4.65 |  | Cash Contract (F=\$4.30) | \$0.65+\$4.30=\$4.95 |

# All About Strategy-Lessons From Top Gun (the movie 1986) 

Top Gun-The Birdie-For the Speculators<br>https://www.youtube.com/watch?v=KPxDoFbsvWA

Top Gun-From your Instructor
https://www.youtube.com/watch?v=EPIPLahykrI

Top Gun-Getting to Confident The Tower Buzz
https://www.youtube.com/watch?v=VIliZvuvirs

Top Gun--Sticking to the rules-Pays in the Long Run From your Instructor https://www.youtube.com/watch?v=mNTmQhivfDk

## Speculating happened to pay-off this time earning additional profit above the winning strategy

Several had the winning strategy without speculating

Basis contract at planting typically a good strategy

