

Marketing Tools



- Cash sell at harvest
- Pool sales
- Cash forward contract
- Sell futures contracts
- Buy put options
- Buy puts and sell calls
- Cash contract and buy calls
- Sell futures and buy a call, sell a call
- Buy a put, sell a put, buy a call
- Buy options on contracted or pooled sales

Marketing Strategies

Basics

1. Do Nothing

- Cash sales at harvest

2. Fix Price Now

- Cash forward contract
- Hedge with futures contracts

3. Set a Price Floor

- Options

Advanced

4. Set a Price Floor/Ceiling

- Options

1. Do Nothing

- If you do no pre-harvest pricing, you are a speculator in the cash market.
- You accept all the price risk between now and whenever you decide to sell.

2. Fix Price Now—Cash Contract

- **Private negotiation in which the producer and the merchant agree now upon a price of a commodity to be delivered in the future**
- **Advantages**
 - **Producer and merchant lock in a price ahead of time**
 - **Helps eliminate the uncertainty caused by price fluctuations**

2. Fix Price Now: Hedging with Futures Contracts

- Hedging is a position in the futures market that is opposite one's position in the cash market.
- Since futures and cash markets move together, any loss in the cash market is offset by gains in the futures market.
- Hedging is doing *now* in the futures market what you anticipate doing *later* in the cash market.

Corn	C	Futures
prices in \$/bushel	Current	\$ 4.5500
	Harvest	\$ 3.80
	Basis	\$ 0.20
	Contract Offer	\$ 4.70

**What if I'm right:
4.74/bu**

Acres	25
bu/acre	200
est. production, bu	5,000
pre-harvest mkt	1.00
pre harvest bushels	5,000
contract spec, bu	5,000
contracts to hedge	1.0
contract month	December

Hedging with Futures Contracts		Options exp	11/26/2021	Contract exp	12/14/2021
Pre-delivery					
	Sell Futures	1	December	C	\$4.55000
At delivery					
	Buy Futures	1	December	C	\$3.80
	Profit(loss)				\$0.75000
	Commission (\$50/contract)				(\$50.00)
	Net profit (loss) from hedge				\$3,700.00
	Basis at delivery				\$0.2000
	Sell	5,000	bushels		\$4.00
	Net grain sales				\$20,000.00
	Average price per bushel				\$23,700.00
					\$4.7400

Corn	C	Futures
prices in \$/bushel	Current	\$ 4.5500
	Harvest	\$ 5.80
	Basis	\$ 0.20
	Contract Offer	\$ 4.70

**What if I'm wrong:
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contract month	December	Options exp	11/26/2021	Contract exp	12/14/2021
Hedging with Futures Contracts					
Pre-delivery					
Sell Futures	1	December	C	\$4.55000	
At delivery					
Buy Futures	1	December	C	\$5.80	
Profit(loss)				(\$1.25000)	(\$6,250.00)
Commission (\$50/contract)					(\$50.00)
Net profit (loss) from hedge					(\$6,300.00)
Basis at delivery			+	\$0.2000	
Sell	5,000	bushels		\$6.00	\$30,000.00
Net grain sales					\$23,700.00
Average price per bushel					\$4.7400

[Hedging Calculator](#)

Put: right to sell; Call right to buy
Basic Option Strategies

PUT

CALL



Buy

Sell



Sell

Buy

Put: right to sell; Call right to buy



Buying Put Options

- Effectively creates a minimum price contract
- Never the most profitable strategy
- Limits losses if prices go down
- Gains are unlimited if prices go up
- Expensive

Corn Example

- **Situation:**
 - You are a corn farmer who wants protection in case prices fall by harvest
- **Strategy:**
 - Buy a December put option

Determine Expected Selling Price;

December corn is trading at 455 per bushel

Strike Prices	Put Premiums
410	19.750
420	24.250
430	29.375
440	34.875
450	40.625
460	46.875

Determine Expected Selling Price

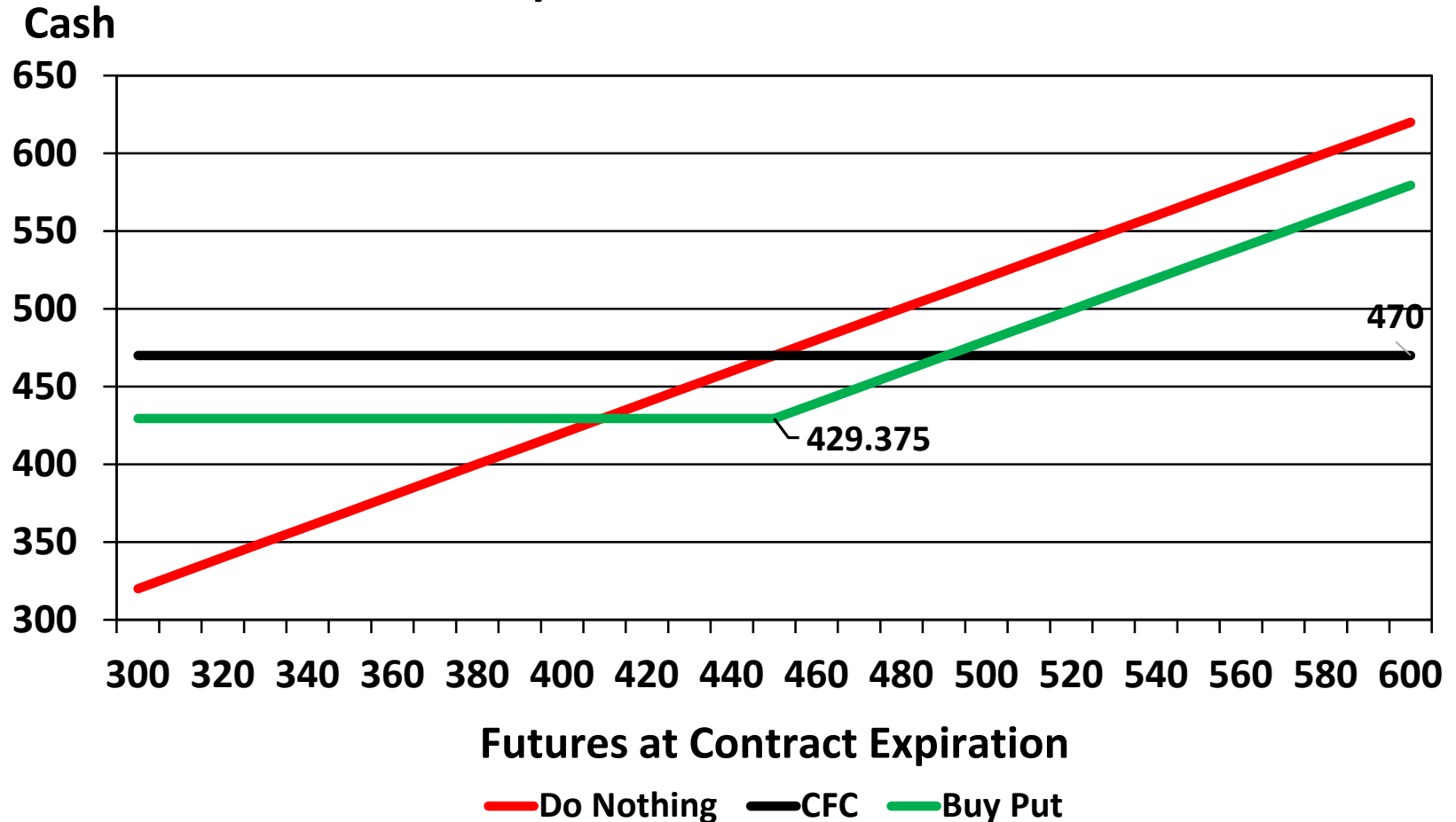
Select Appropriate Futures Contract Month	December		
Select Appropriate type of Option	Buy Put (right to sell)		
Calculate Minimum Selling Price			
Strike price	410	430	450
Subtract premium	19.750	29.375	40.625
Adjust for basis	+20	+20	+20
Minimum price	410.250	420.625	429.375

Marketing Strategies

Do Nothing, Cash Forward Contract, Buy a Put

Futures @ 455, CFC @ 470, Expected Basis = +20

Buy a 450 Put @ 40.625



Put floor = strike price minus premium plus basis

Put floor = $450 - 40.625 + 20 = 429.375$

Corn	C	Futures	Strike	Premium
prices in \$/bushel		Current	\$ 4.5500	At the money put
		Harvest	\$ 3.80	At the money call
		Basis	\$ 0.20	
		Contract Offer	\$ 4.70	
Acres	25			
bu/acre	200			
est. production, bu	5,000			
pre-harvest mkt	1.00			
pre harvest bushels	5,000			
contract spec, bu	5,000			
contracts to hedge	1.0			
contract month	December	Options exp	11/26/2021	Contract exp 12/14/2021

**What if I'm right:
4.28/bu**

Buying Puts							
	Pre-delivery						
		December	C	trading at		\$4.55000	
		Buy Puts	1	December	C	\$4.50	-\$0.4063
	At delivery						(\$2,031.25)
		December	C			\$3.80	
		Sell Puts	1	December	C	\$4.50	\$0.7000
		Profit(loss)					\$3,500.00
		Commission (\$50/contract)					\$0.2938
		Net profit (loss) from trade					(\$50.00)
							\$1,468.75
							(\$50.00)
							\$1,418.75
		Basis at delivery				\$0.2000	
		Sell	5,000	bushels		\$4.00000	
		Net grain sales					\$20,000.00
							\$21,418.75
		Average price per bushel					\$4.28375

Corn	C	Futures	Strike	Premium		
prices in \$/bushel		Current	\$ 4.5500	At the money put	\$ 4.50	\$ 0.40625
		Harvest	\$ 5.80	At the money call	\$ 4.50	\$ 0.45625
		Basis	\$ 0.20			
		Contract Offer	\$ 4.70			
Acres	25					
bu/acre	200					
est. production, bu	5,000					
pre-harvest mkt	1.00					
pre harvest bushels	5,000					
contract spec, bu	5,000					
contracts to hedge	1.0					
contract month	December	Options exp	11/26/2021	Contract exp	12/14/2021	

**What if I'm wrong:
5.58/bu**

Buying Puts							
Pre-delivery							
	December	C	trading at	\$4.55000			
	Buy Puts	1	December	C	\$4.50	-\$0.4063	(\$2,031.25)
At delivery							
	December	C		\$5.80			
	Sell Puts	1	December	C	\$4.50	\$0.0000	\$0.00
	Profit(loss)					-\$0.4063	(\$2,031.25)
	Commission (\$50/contract)						(\$50.00)
	Net profit (loss) from trade						(\$2,081.25)
	Basis at delivery			\$0.2000			
	Sell	5,000	bushels	\$6.00000			\$30,000.00
	Net grain sales						\$27,918.75
	Average price per bushel						\$5.58375

Put: right to sell; Call right to buy
Basic Option Strategies

PUT

CALL



Buy

Sell



Sell

Buy

Put: right to sell; Call: right to buy

Call Option Example

Underlying commodity: Pizza

Strike Price: \$10.99

Expiration Date: when the coupon expires

Premium: free

“THE CHOICE IS YOURS!

Whether you like lots of MEATS or CHEESE, we have something you'll love!
Choose between two delicious specialty pizzas on our FRESH, NEVER FROZEN,
original crust!”

John N. Schnatter
John Schnatter, Founder

Your Choice of One

\$10.99
LARGE

Limited time only!

The Meats

Tuscan Six Cheese

PIZZA
PAPA JOHN'S
1984 FOR 25 YEARS 2009
Better Ingredients.
Better Pizza.

After 25 YEARS, it's still about
BETTER PIZZA!

Offer good for a limited time at participating Papa John's restaurants. Additional toppings extra. Not valid with any other coupons or discounts. Limited delivery area. Delivery fee may apply. Customer responsible for all special orders. Prices may vary in Alaska and Hawaii. © 2009 Papa John's International, Inc. All Rights Reserved. Additional charge for Pan crust may apply.

Order pizza on the go at mobile.papajohns.com

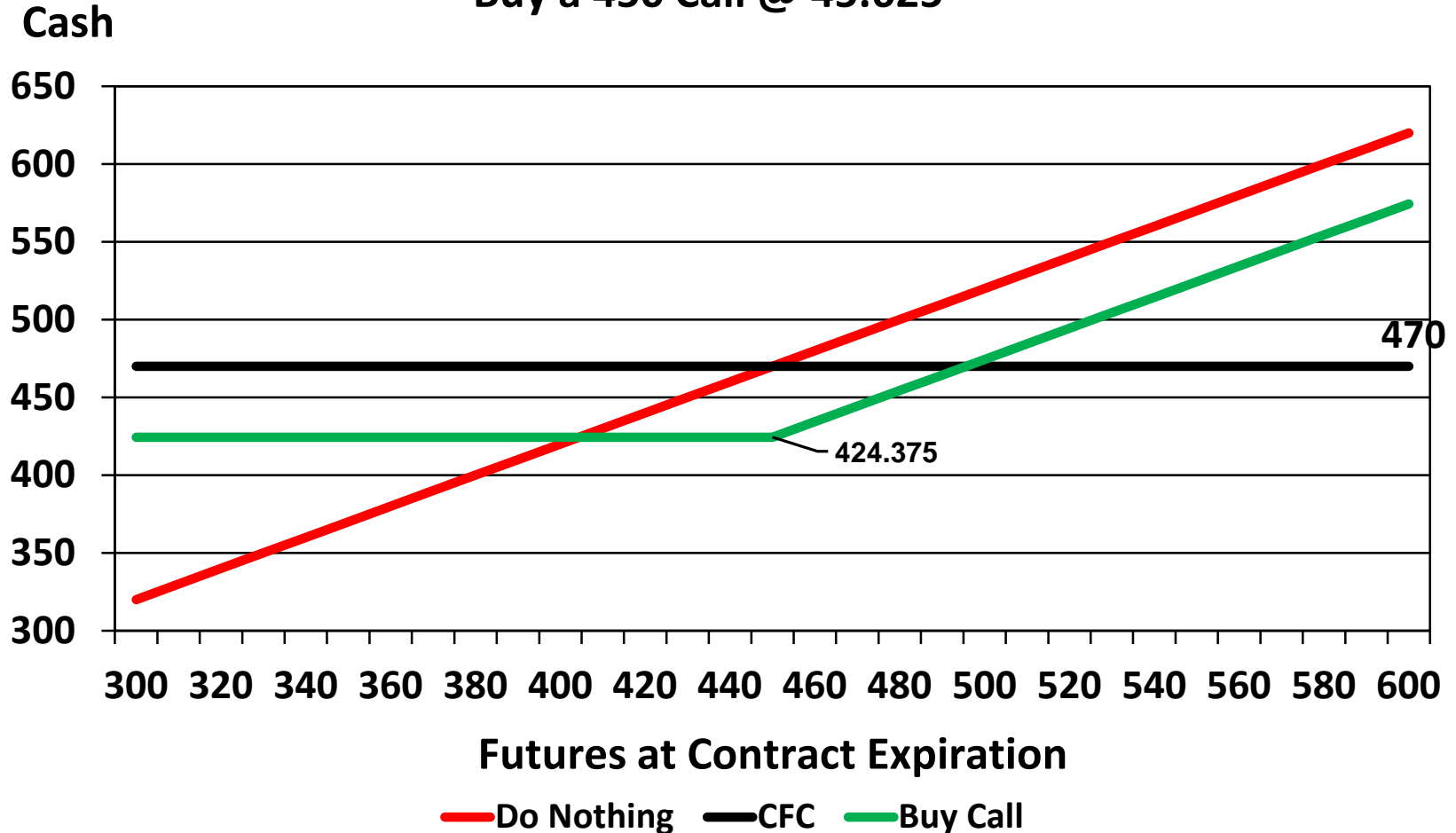
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Marketing Strategies

Do Nothing, Cash Forward Contract, CFC and Buy a Call

Futures @ 455, CFC @ 470, Expected Basis = +20

Buy a 450 Call @ 45.625

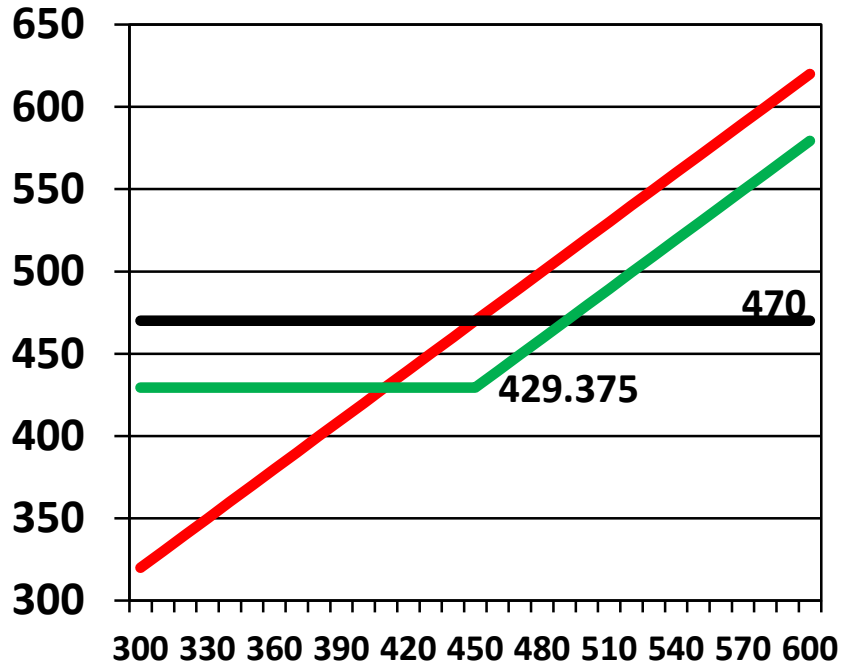


CFC and Buy a Call floor = contract price minus call premium

CFC and Buy a Call floor = $470 - 45.625 = 424.375$

Establish a Price Floor

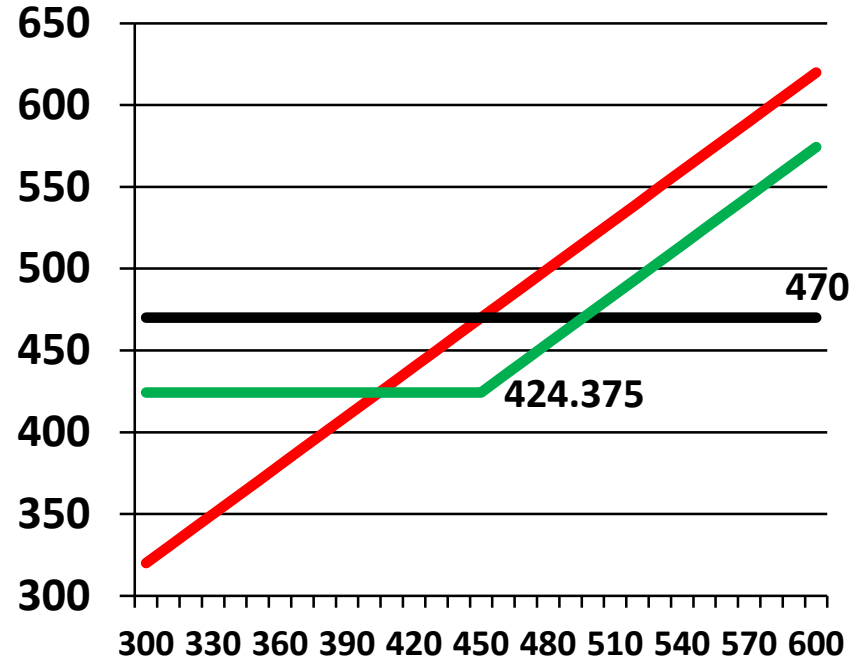
Buy Put



Futures at Contract Expiration
 — Do Nothing — CFC — Buy Put

Basis open

CFC and Buy Call



Futures at Contract Expiration
 — Do Nothing — CFC — Buy Call

Locks in the basis

Factors to be Considered when Buying Options

- Buyer must decide strike price/premium
- Buyer must decide whether or not to exercise

Buying Put Options

- Effectively creates a minimum price contract
- Never the most profitable strategy
- Limits losses if prices go down
- Gains are unlimited if prices go up
- Expensive

Futures or Options?

- **Use options in markets likely to be characterized by large and sustained price moves**
- **Use options when there will be problems in arranging financing for a margin line**
- **Use options when the ability to manage a selective hedging program is questionable**

Where are we?



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