

2025 Grain Marketing Webinar Series

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Today

• Start our discussion by conceptualizing the decision environment

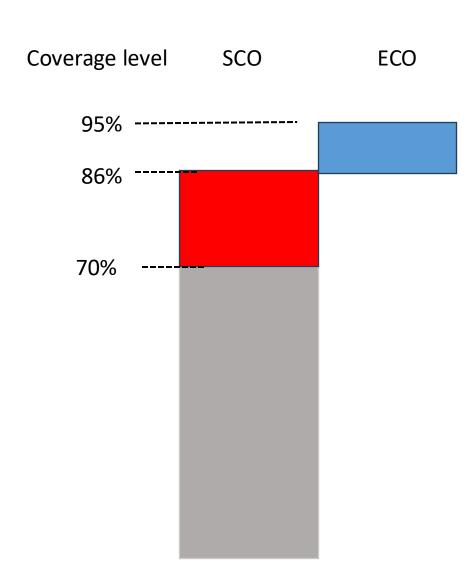
 Describe and motivate crop insurance – specifically Supplemental Coverage Option (SCO) and Enhanced Coverage Option (ECO)

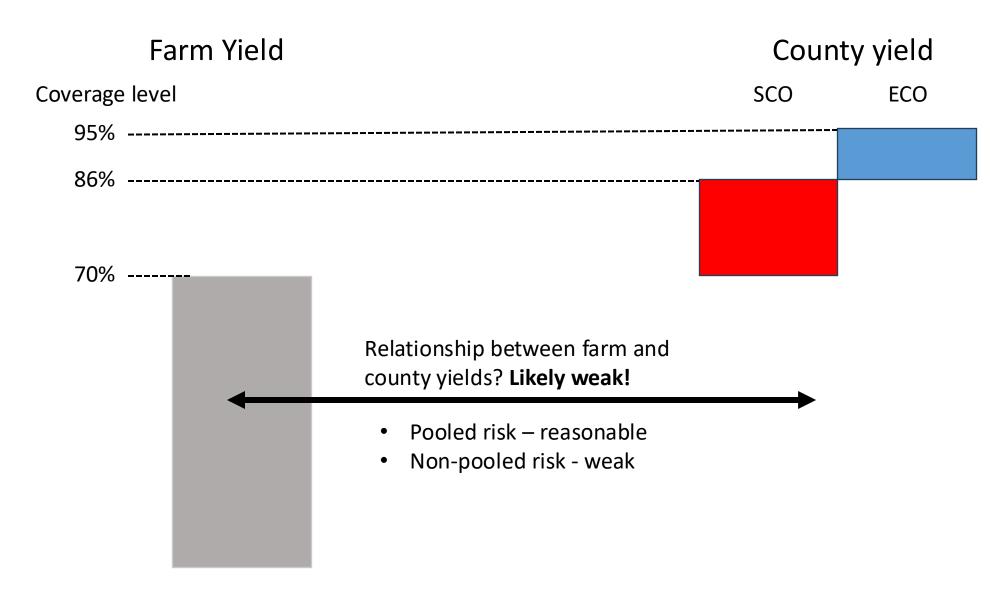
Describe and motivate pre-harvest marketing

 Discuss linkages and strategies between pre-harvest marketing and crop insurance

- Relatively new
 - ECO: 2021
 - SCO: 2015
- County level policy
 - County yield
 - Farm level uses farm historical Actual Production History (APH)
 - Price
 - Same as farm level
 - Corn: \$4.72
 - Soybeans: \$10.57
- Premium subsidy
 - ECO: 65%
 - SCO: 65%

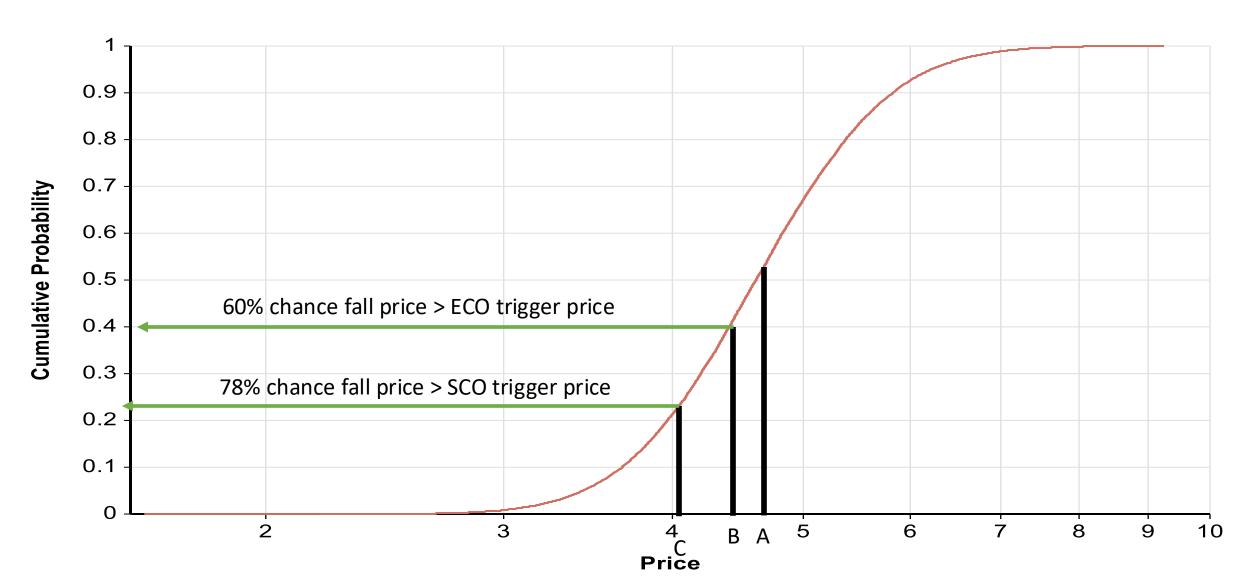
- Coverage
 - ECO
 - 86% to 90% or 95%
 - SCO
 - Individual level up to 86%
- Liability
 - Function of underlying policy through the %
 - More \$ coverage with higher APH
 - 9% of 100 = 9 bu
 - 9% of 120 = 10.8 bu





December Futures Price Distribution

- A) Current projected price = \$4.72
- B) 95% of \$4.72 = \$4.484, ECO trigger
- C) 86% of \$4.72 = \$4.059, SCO trigger



What is the county yield?

- Not always what you think!
- Generally different yield for irrigated and non-irrigated
 - There are exceptions
- Ask your agent!

County Status
Blended
Non-Blended

Figure 1, Blended Corn Yield Counties

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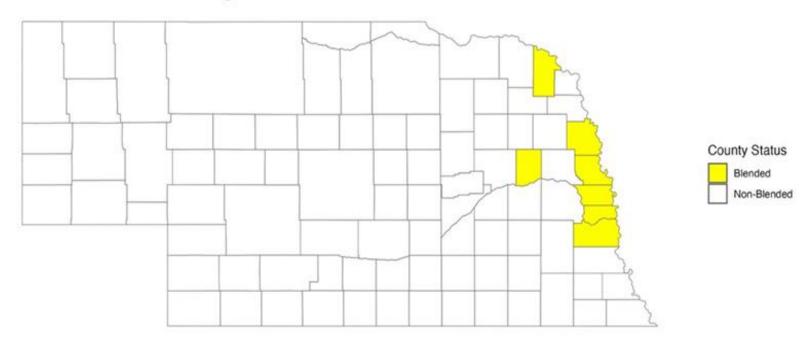
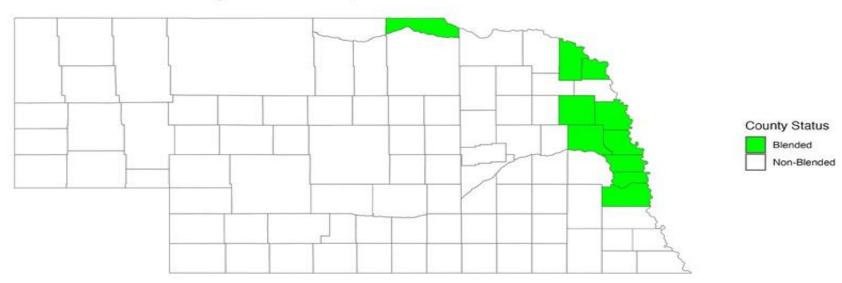
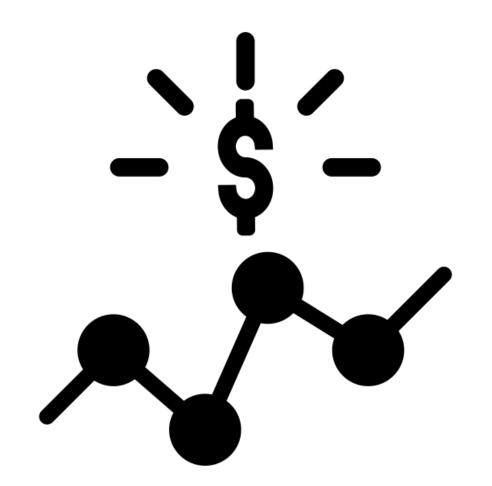


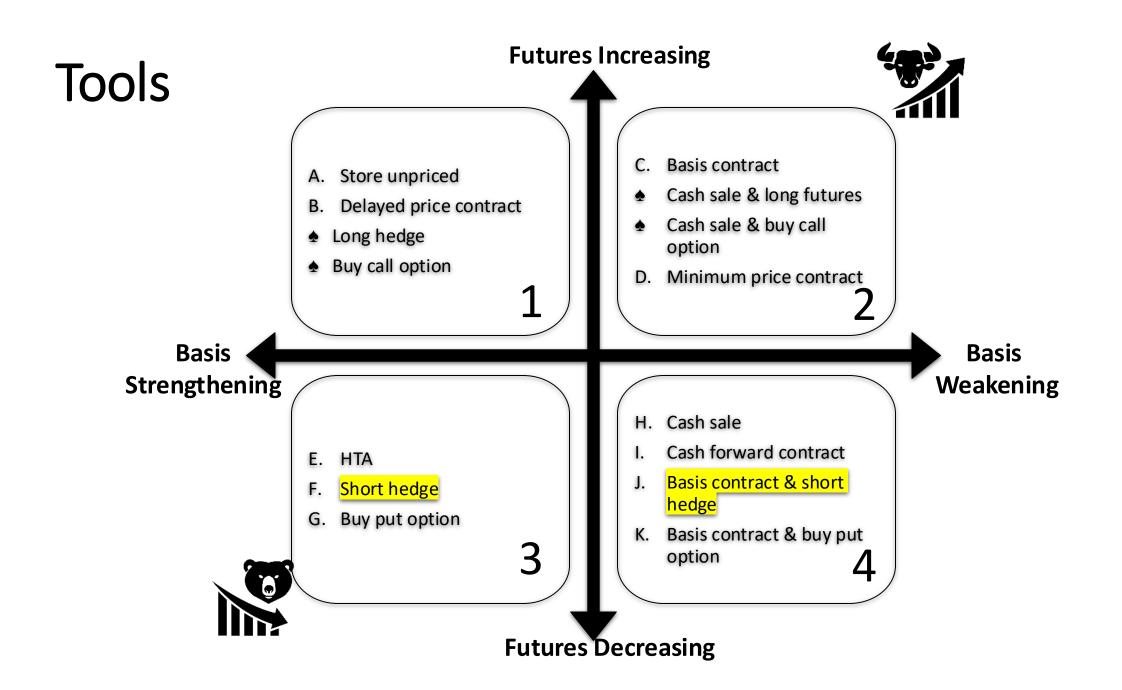
Figure 2, Blended Soybean Yield Counties



- Appears to be a reasonable price protection strategy
 - Uncertain yields along for the ride
- Not a good yield protection strategy
 - Farm vs county yield



Hedging



What are your goals?

- Hedger:
 - Breakeven
 - Keep farming
 - Produce grain and make money
 - Use marketing as a tool to reduce price risk
- Speculator:
 - Trade contracts (futures and options) solely to make money

Hedgers vs. Speculators

Hedger

 Someone who buys and sells futures contracts to protect themselves against adverse movements in cash price while simultaneously meeting objectives of positive expected profit

Speculator

 Someone who buys and sells futures contracts purely to make a profit from the act of trading futures contract

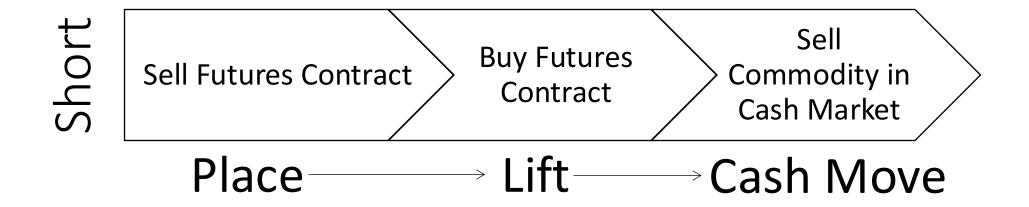
Hedging

- Hedging buying/selling futures contracts to protect against financial loss due to changing cash markets
- Taking a position in a futures market opposite the position held in the cash market
 - □ **Short** plan to <u>sell</u> a commodity protects the seller against falling prices
 - □ **Long** plan to <u>purchase</u> a commodity protects the buyer against rising prices

Short in bearish market



Short Hedging... Sell High, Buy Low



Hedging Example

Short: Grain Producer

Place	Sell (+)	\$4.00
Lift	Buy (-)	\$3.40
Hedge		+\$0.60
Fees		-\$0.04
Cash Move		\$3.00
Actual Sale Price		\$3.56

The short hedge increases the sale price of grain for the grain producer in a decreasing market.

Hedging Math...

What is the current basis?

Basis = Cash Price - Futures Price

What is the current cash forward contract price?

Cash Price = Current Futures + Current Basis

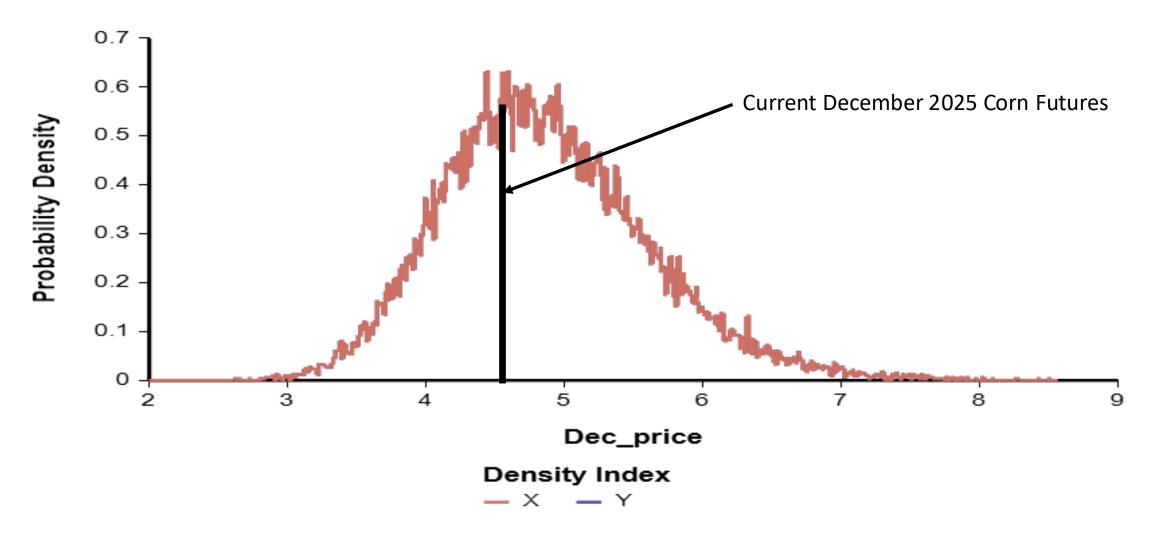
What is the expected cash price of the hedge?

Futures + Expected Basis - Fees = Expected Cash Price

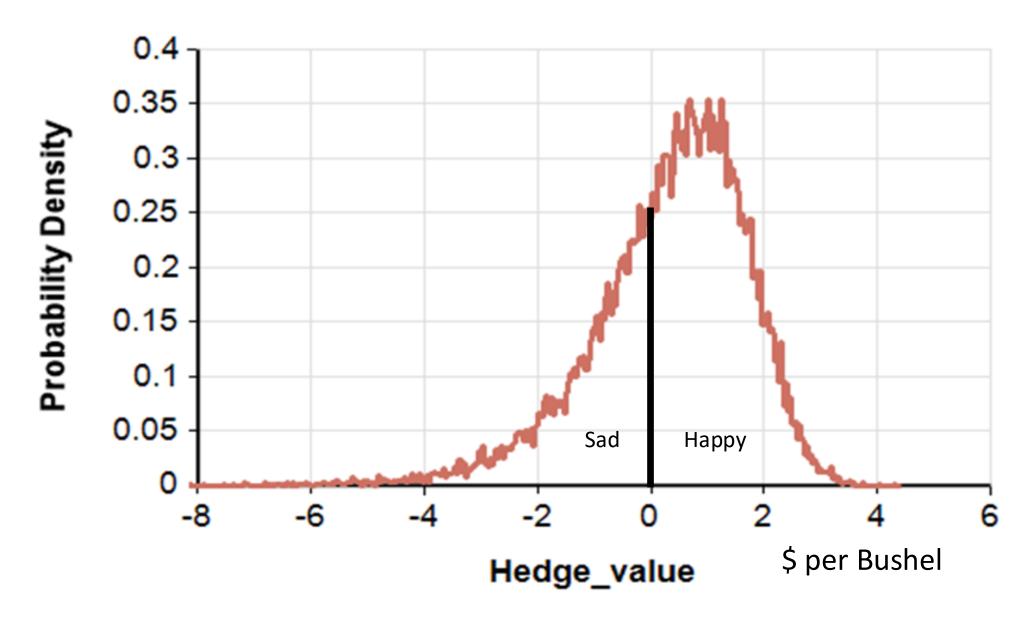
What is the actual sale price from the hedge?

Cash Price + Hedge Gain/Loss - Fees= Actual Sale Price

Price Risk – Not Predictable so only can Manage

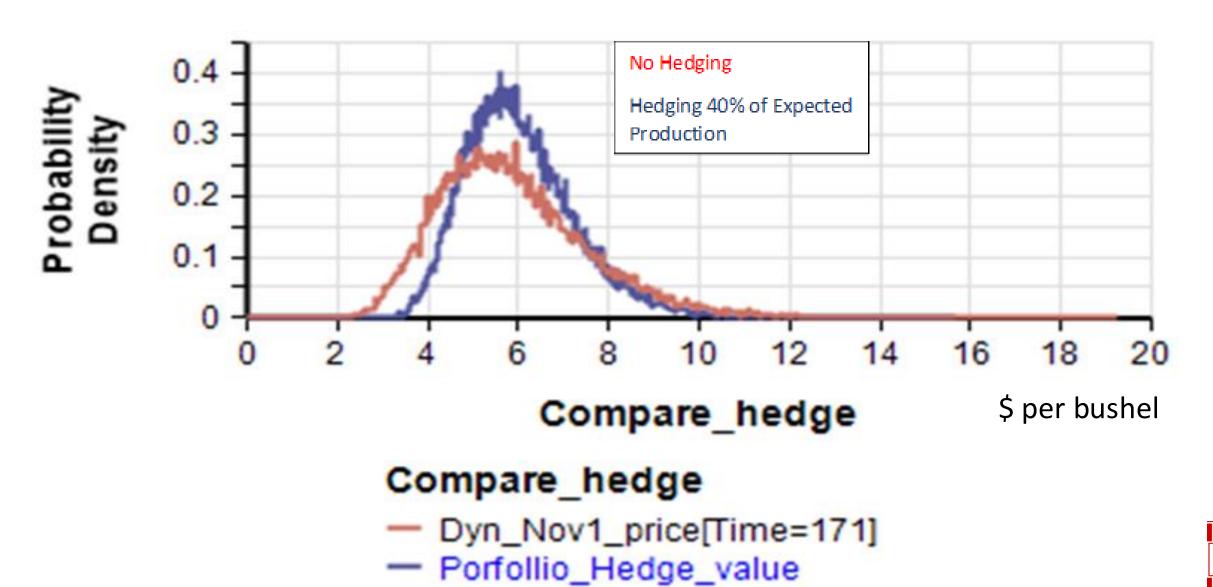


Hedging Gains/Losses Evaluation at End of Year

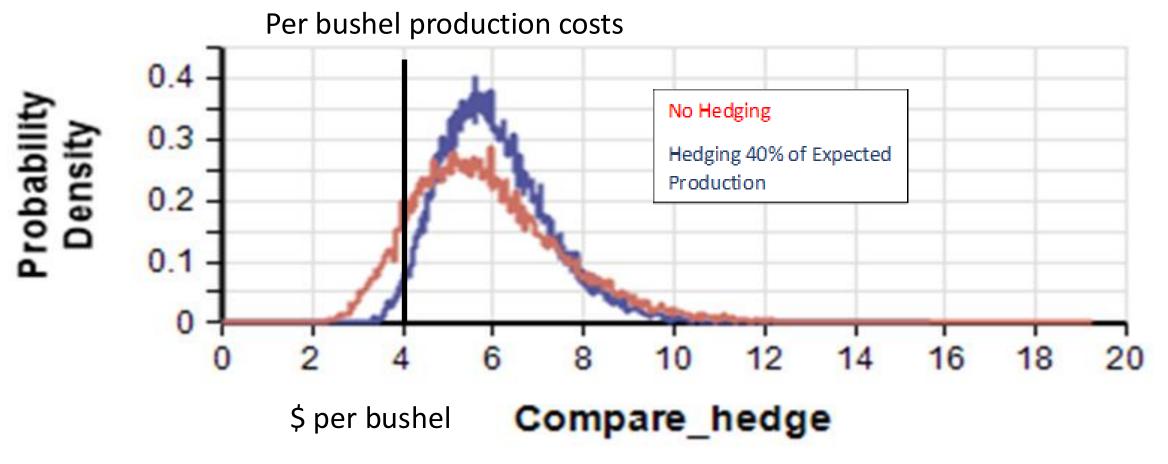




Creating an Average Farm Price



Creating an Average Farm Price



Hedging changes the sampling distribution

Compare_hedge

- Dyn_Nov1_price[Time=171]
- Porfollio_Hedge_value

You never go broke taking a profit

Don't sell something you don't have







- Every year the mantra "marketing is important" will be repeated from different points of view:
 - Marketing services claim that pre-harvest marketing can help farmers increase their bottom line
 - Bank loan officers often imply that hedging can reduce price uncertainty
 - Agricultural Economists join in by suggesting that hedging is a best management practice

- Producers have smelled roses and felt thorns
 With some horror stories in between
- So much contradictory advice $\longrightarrow \longrightarrow \longrightarrow$ confusing mystery

- What happens at insured production?
 - Can you hedge this? Sure (you can hedge anything)
 - Need to understand where the \$ go and \$ exposure to understand the role of insurance in hedging
- Guarantee = price*yield*coverage level
- Farmer max net payment from insurance = guarantee producer premium
 - Clearly less than guarantee

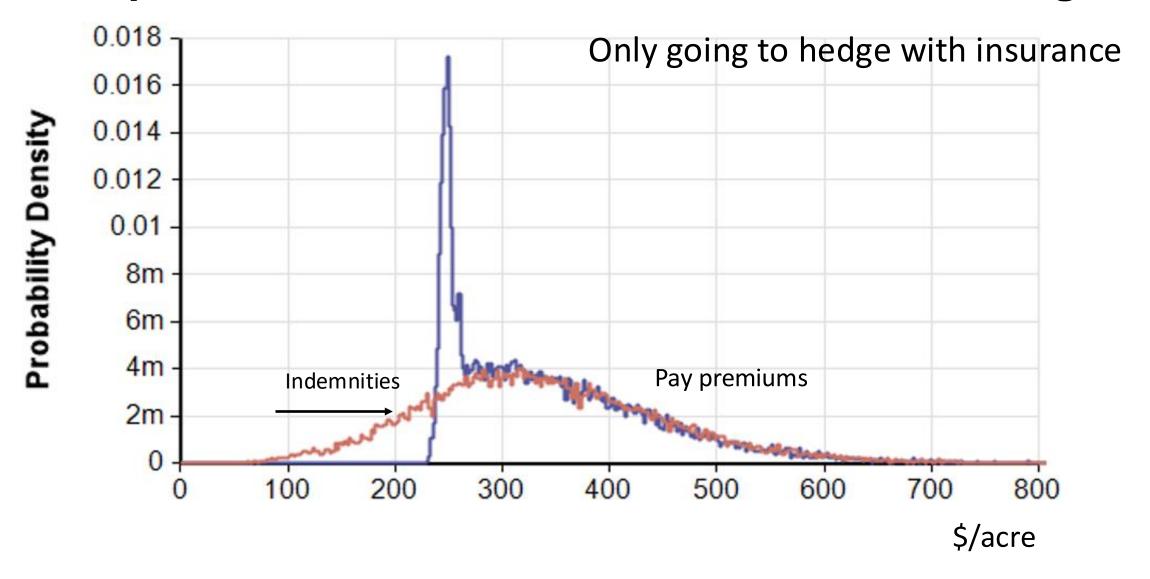
• Max farmer payment = guarantee – producer premium

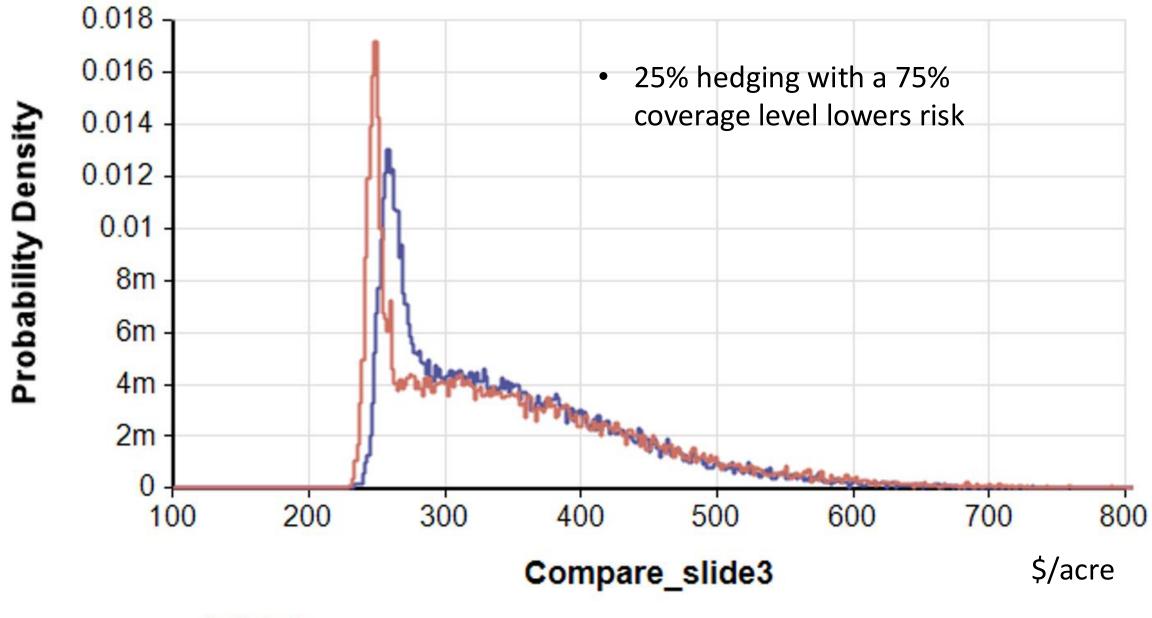
• If hedge up to guarantee, you have hedged past your max payment

- Hedging brings the probability of buy-back fees into the equation
 - High levels of hedge => highest probability of buy-back fees
 - Buy-back fee implies less \$ for farmer

 We have found the optimal, long-run hedging %, in the spring, when nothing about the crop is known to be around 40% in non-irrigated and higher in irrigated

Crop Income With and Without Insurance, no hedge

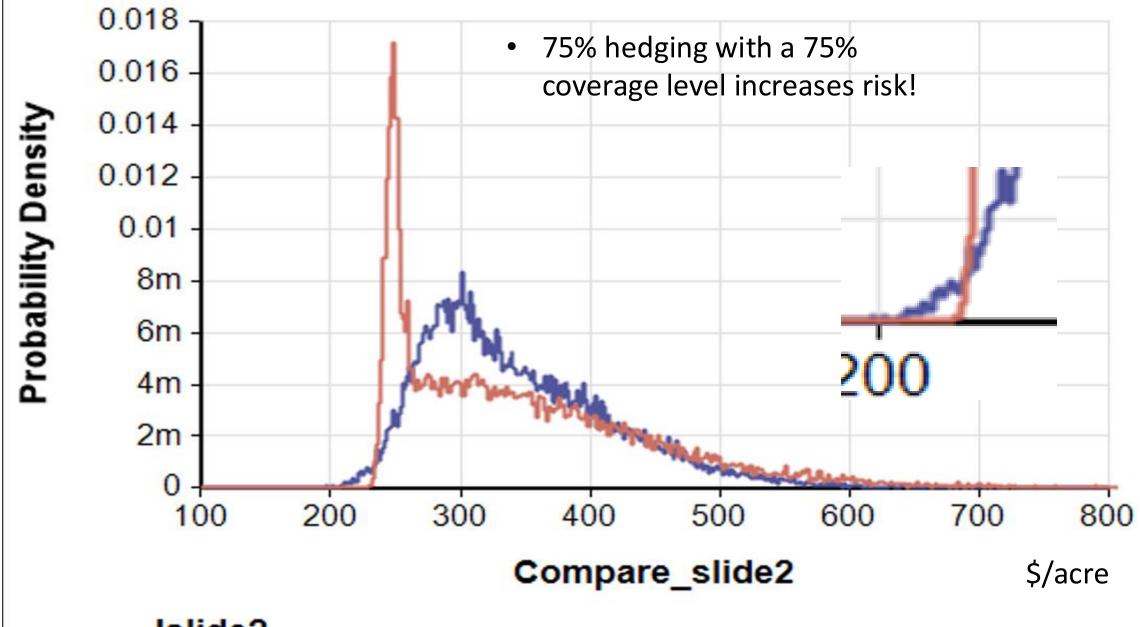




Islide3

RP 75% Ins no hedge

RP 75% Ins 25% hedge



Islide2

RP 75% Ins no hedge

RP 75% Ins 75% hedge

Summary

- ECO/SCO
 - Understand well what they do/don't do
 - Think deeply about whether these policies fit into your goals and objectives
 - Perhaps use strategically
- Hedging
 - Is well defined
 - Need a solid framework to make decisions
 - Building average farm price = solid
 - Comparing to harvest price = emotional
- Hedging and insurance
 - Follow the money flows
 - Evaluate different scenarios
 - Especially low price and/or yield
- We encourage you to think about what you are doing to your net income distribution, particularly the low revenue side when buying insurance and/or hedging