New USDA-RMA Insurance Product:

Weaned Calf Risk Protection (WCRP)

Pricing in Nebraska





Provide yield and revenue protection up to weaning age for SPRING born calves



Pays for losses from average historical total weaning weight

Revenue Protection

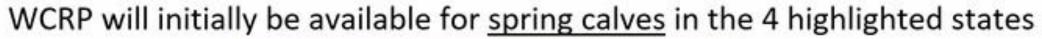
Pays for losses in revenue based on projected prices

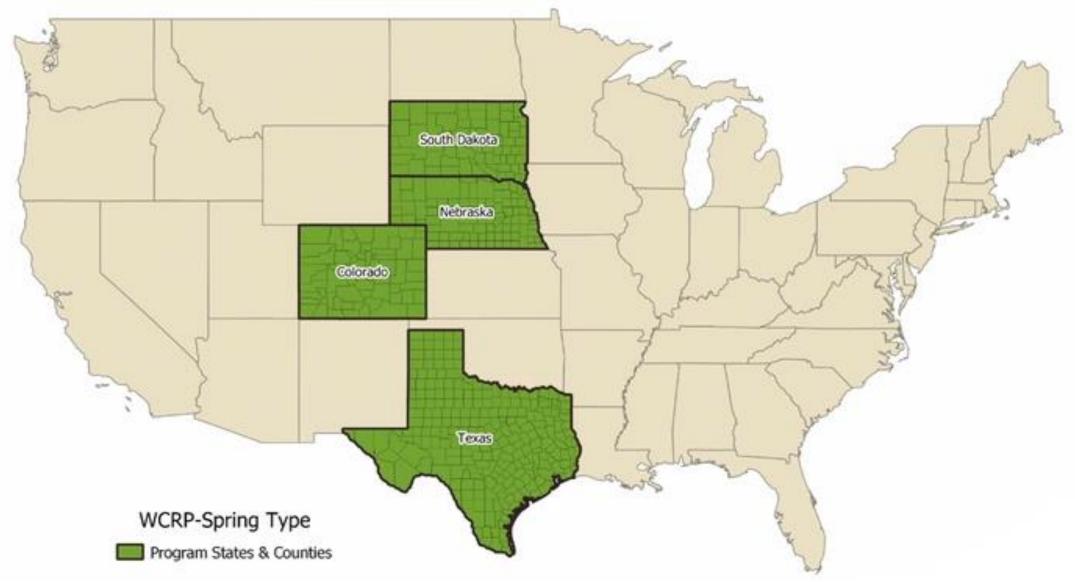
Revenue Protection with Harvest Price Exclusion

Pays for losses in revenue based on observed harvest prices

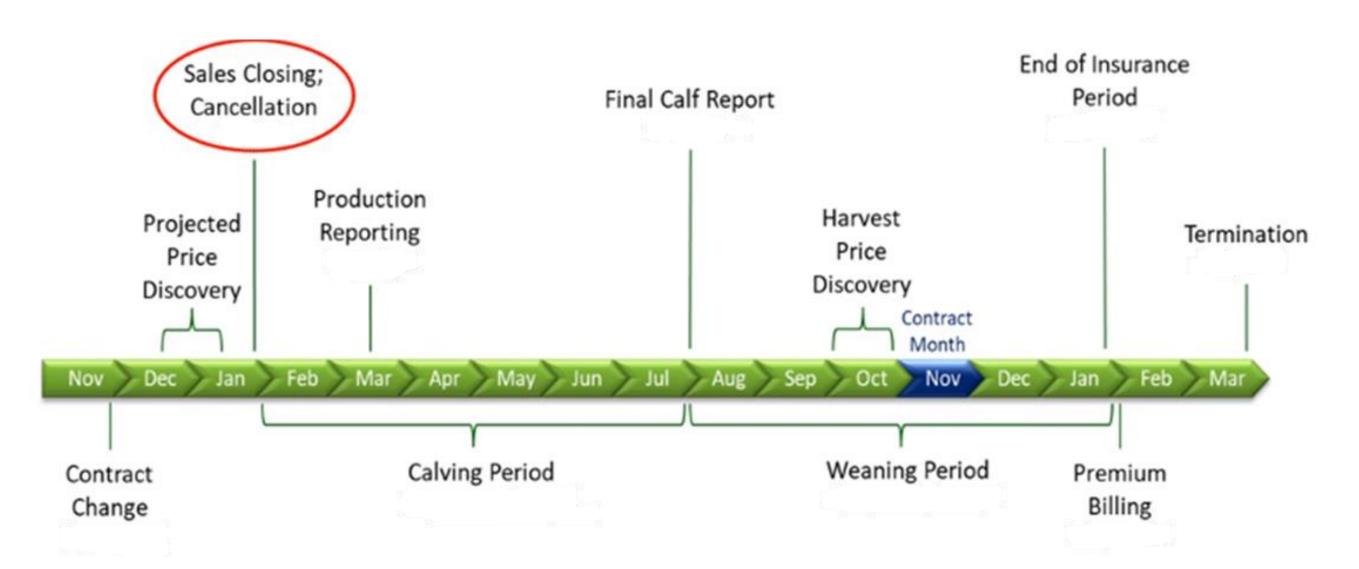


Where can WCRP be purchased?





WCRP Timeline



[†]Coverage begins with submission of the Calf Report submitted by the insured. The Calf Report may be revised as often as required to report the birth of additional calves during the 60-day period after the date calving begins except that the Calf Report may not be revised after the earlier of the insured's Calf Reporting Date for the type and unit or the Final Calf Reporting Date for the type specified in the actuarial documents.



Signup and Price Discovery Timeline

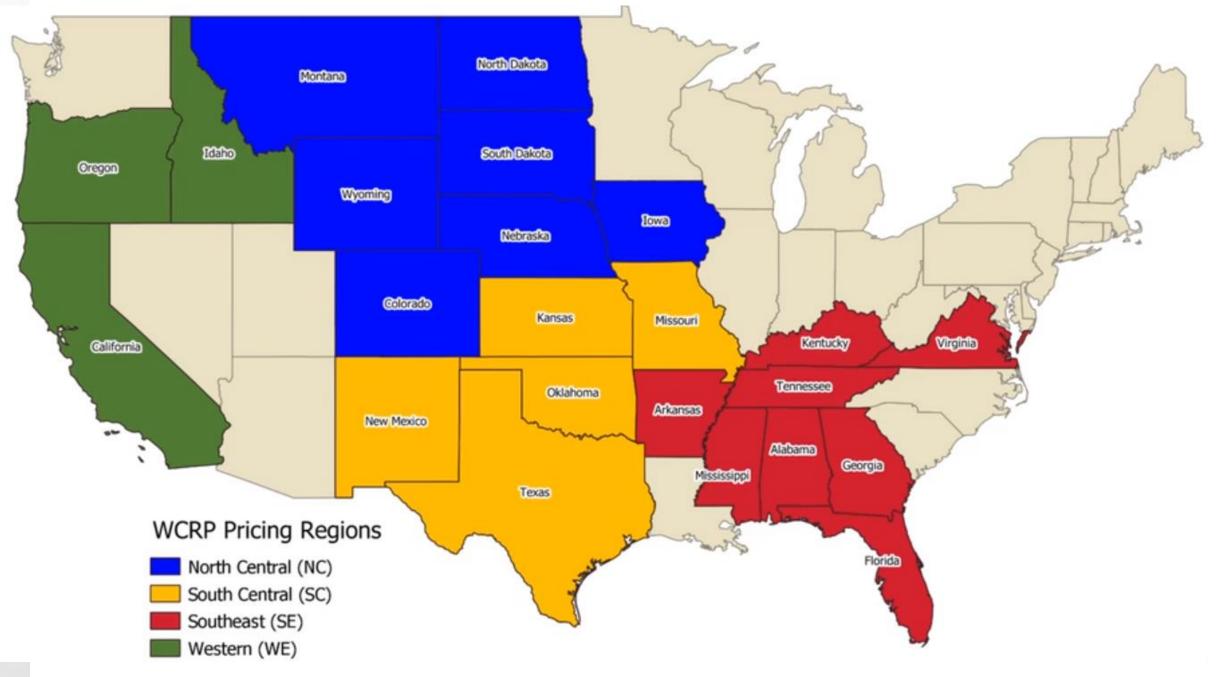


Calculating Production History (Anytime)

Projected Price Discovery (Dec 15 – Jan 15) -> COMPLETED

Application Signup (Deadline Jan 31)

Price Discovery



Uses a regional factor to convert CME prices to a regional price

Normalizes to different weights using a linear price-weight slide (650# base)

Price Discovery

Price discovery happened between December 15 2024 – January 15, 2025

The November '25 CME Feeder Cattle Futures contract is used

Projected Price for Nebraska is \$2.88 for a 650 lb. steer/heifer



13

21

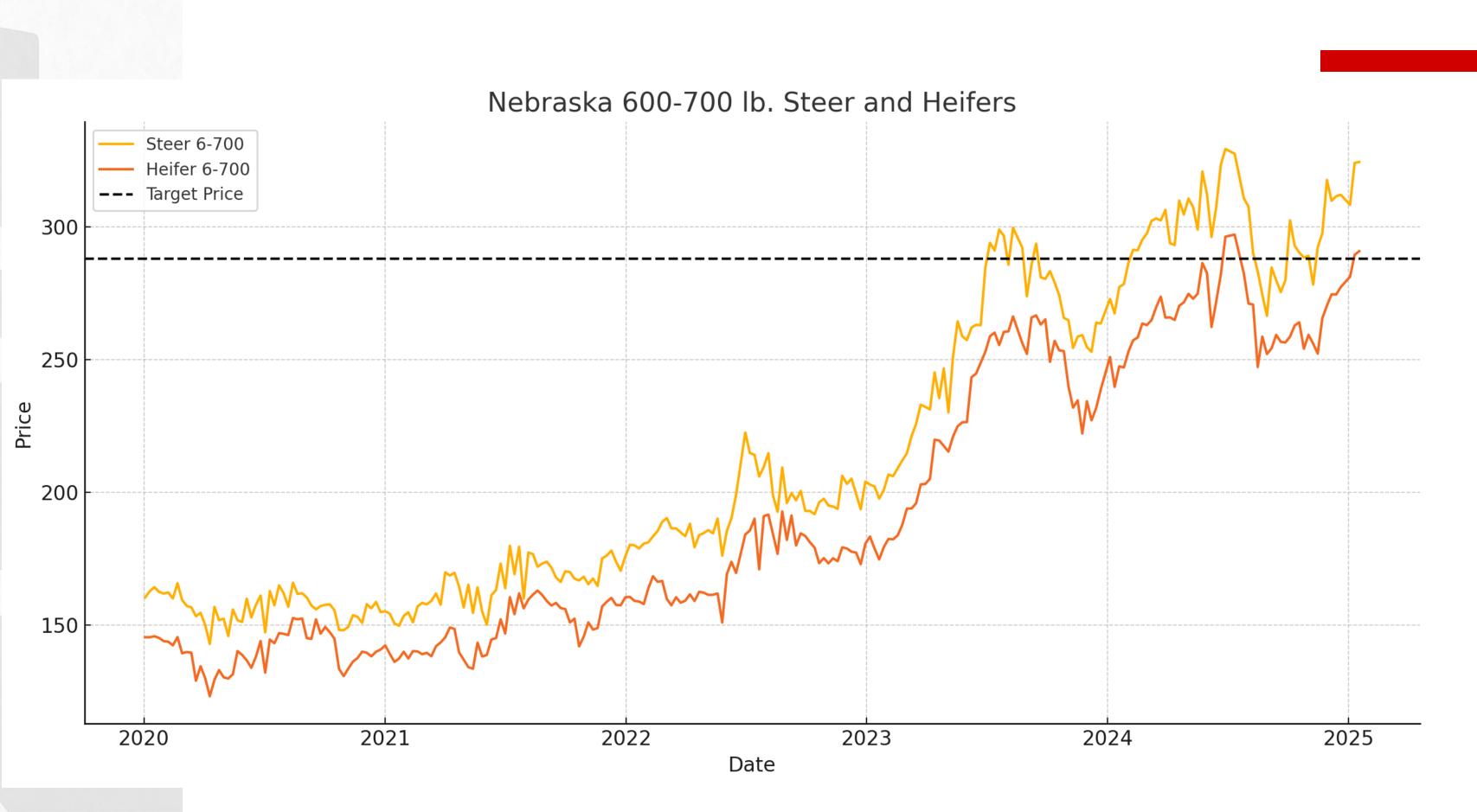
27

17 TradingView

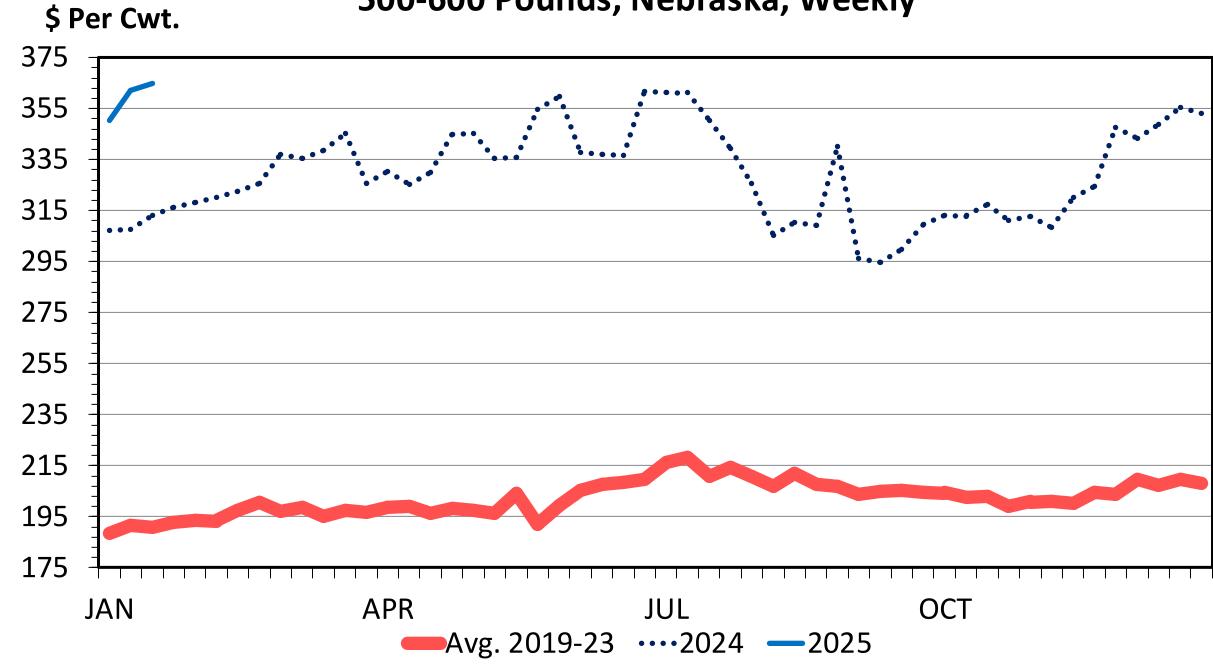
23

27

2025



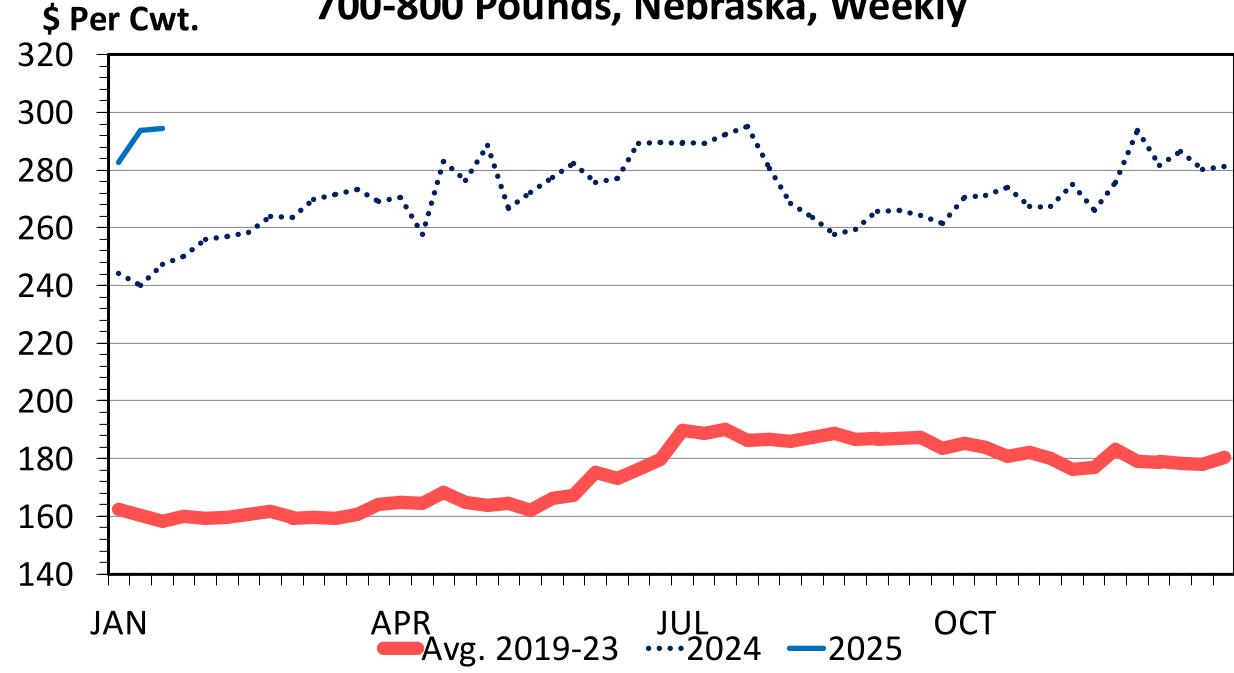




Data Source: USDA-AMS, Compiled by LMIC

Livestock Marketing Information Center

MED. & LRG. #1 FEEDER STEER PRICES 700-800 Pounds, Nebraska, Weekly



Data Source: USDA-AMS, Compiled by LMIC

01/21/25

Where do I Access Quotes (https://www.rma.usda.gov/)



Policy & Procedure >

RMALocal ~

Tools & Reports

About Crop Insurance ∨ News & Events ∨

Search this site

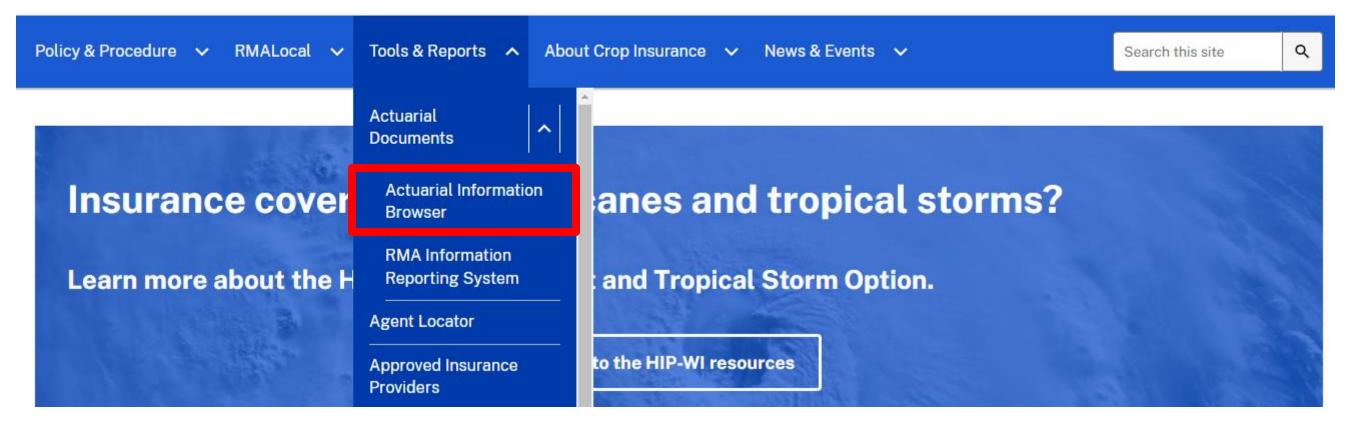
Insurance coverage for hurricanes and tropical storms?

Learn more about the HIP-WI Endorsement and Tropical Storm Option.

Go to the HIP-WI resources









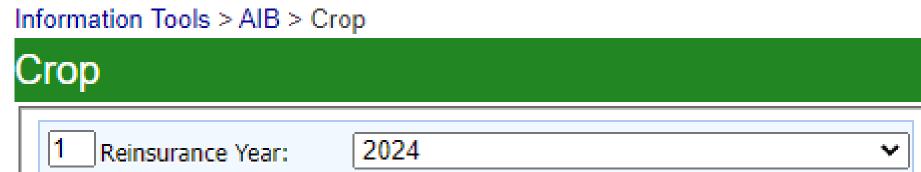
Actuarial Information Browser

Welcome!



Browse by Application

- ▶ AIB Landing Page
- ▶ AIB 2011
- ▶ AIB 2012
- ▶ AIB 2013
- ▶ AIB 2014
- ▶ AIB 2015
- ▶ AIB 2016
- ▶ AIB 2017
- ▶ AIB 2018
- ▶ AIB 2019
- ▶ AIB 2020
- ▶ AIB 2021
- ▶ AIB 2022
- ▶ AIB
- Crop



- 1 Reinsurance Year: 2024
 2 Commodity: Weaned Calves (0805)
 3 Commodity Year: 2024
 4 Insurance Plan: Yield Protection (01)
 5 State: Nebraska (31)
 County: Adams (001)
- Clear View Report

1 Reinsurance Year:	2024	~
2 Commodity:	Weaned Calves (0805)	~
3 Commodity Year:	2024	~
4 Insurance Plan:	Yield Protection (01)	~
5 State:	Nebraska (31)	~
County:	Adams (001)	~



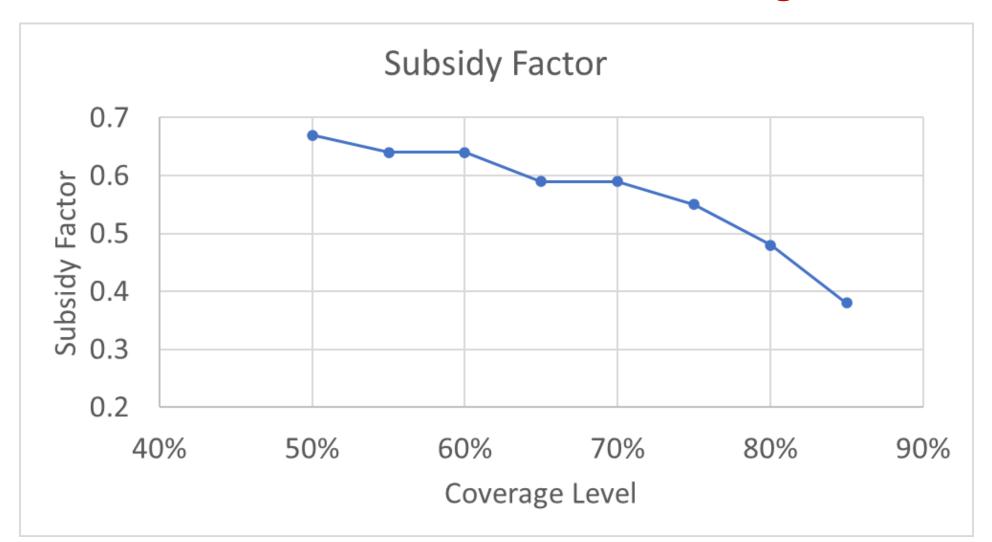
Types / Practices	T/P 1
Туре	Spring Calving 801
Practice	No Practice Specified 997
Commodity Type	Calving 800
Class	Spring 053
Sub Class	No Subclass Specified 997
Intended Use	No Intended Use Specified 997
Irrigation Practice	No Irrigation Practice Specified 997
Cropping Practice	No Cropping Practice Specified 997
Organic Practice	No Organic Practice Specified 997
Interval	No Interval Specified 997

Prices - Base County	
Base Weight	650
Projected Price Adjustment Factor	0.0003021140
Projected Price	\$2.6900
Price Volatility Factor	0.17



Is there a Subsidy to Use WCRP?

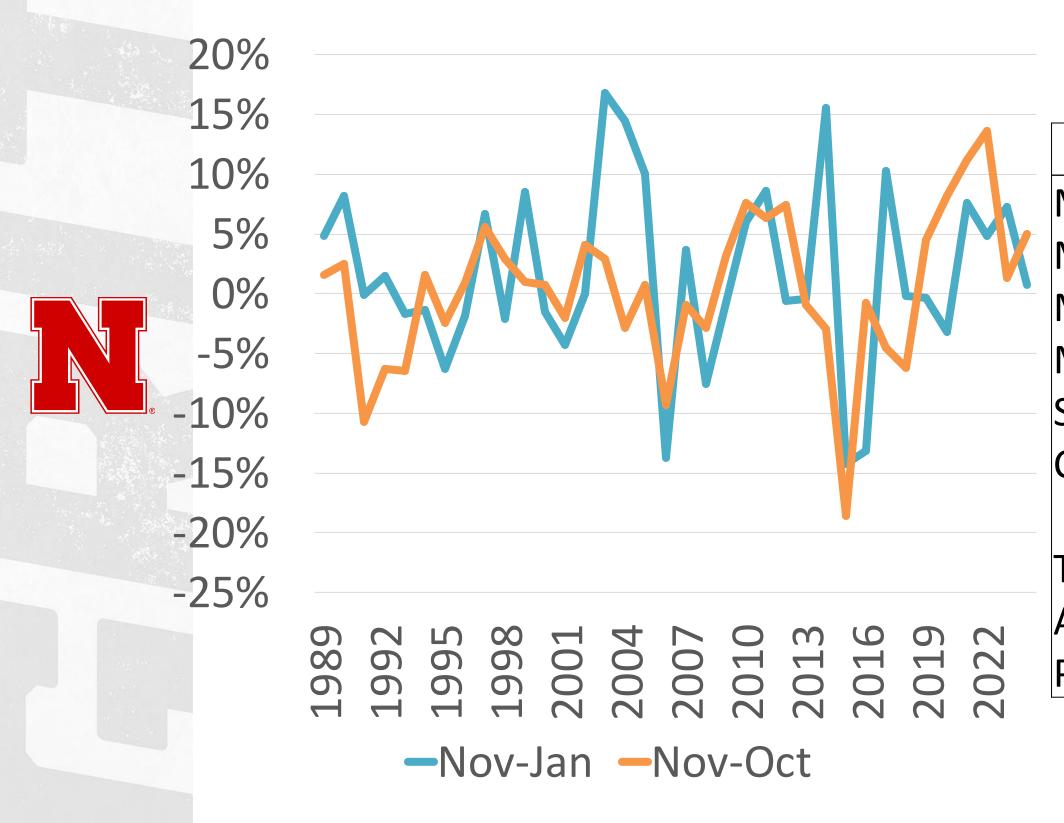
Similar to other Revenue Protection Programs for Crop Insurance



Coverage Level	Subsidy Factor
50%	0.67
55%	0.64
60%	0.64
65%	0.59
70%	0.59
75%	0.55
80%	0.48
85%	0.38



Differences in Prices in Futures Prices



	Nov-Jan	Nov-Oct
Mean	1.74%	0.43%
Median	0%	1%
Min	-14%	-19%
Max	17%	14%
St.Dev	7.46%	6.20%
CV	0.233	0.070
Total	36	36
Above	17	21
Percent Above	47%	58%

What are the Fee/Premiums associated with WCRP?

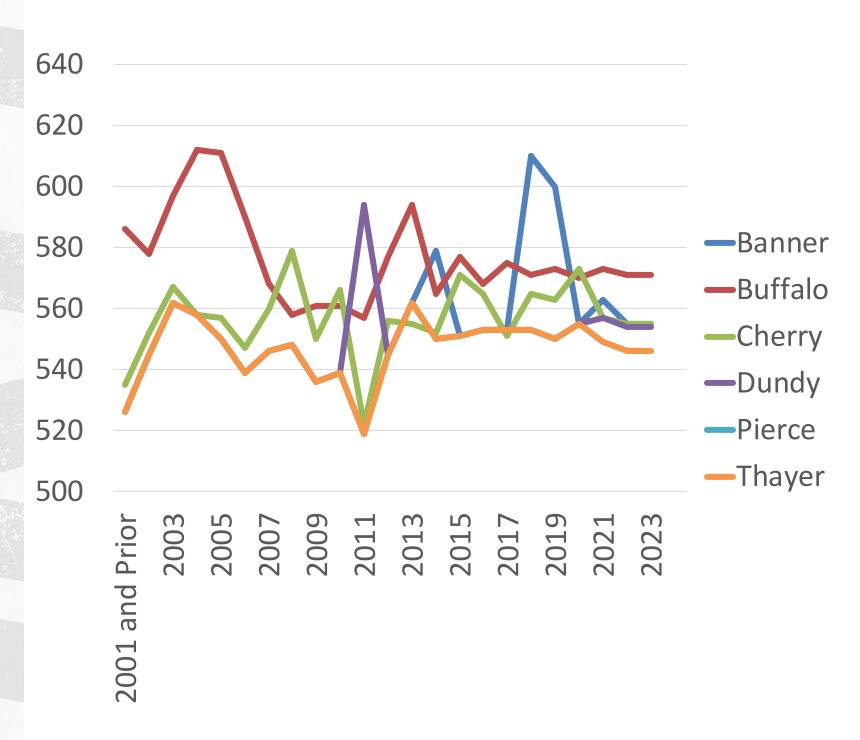
Computed Results	
	Total
Coverage:	\$1,577.00
Production Guarantee Amount:	\$1,576.75
Total Premium Amount (Including A&O):	\$188.19
Premium Risk Subsidy:	\$59.00
Administrative and Operating Subsidy:	\$34.19
Producer Premium (No Administrative Fee Included):	\$95.00
Administrative Fee:	\$30.00
Producer Premium (Administrative Fee Included):	\$125.00

	PriceElectionPercent	85 %	80 %	75 %	70 %	65 %	60 %	55 %	50 %
Revenue Protection 02	100 %	\$1,577.00	\$1,484.00	\$1,391.00	\$1,299.00	\$1,206.00	\$1,113.00	\$1,020.00	\$928.00

Choosing an Appropriate Coverage Level

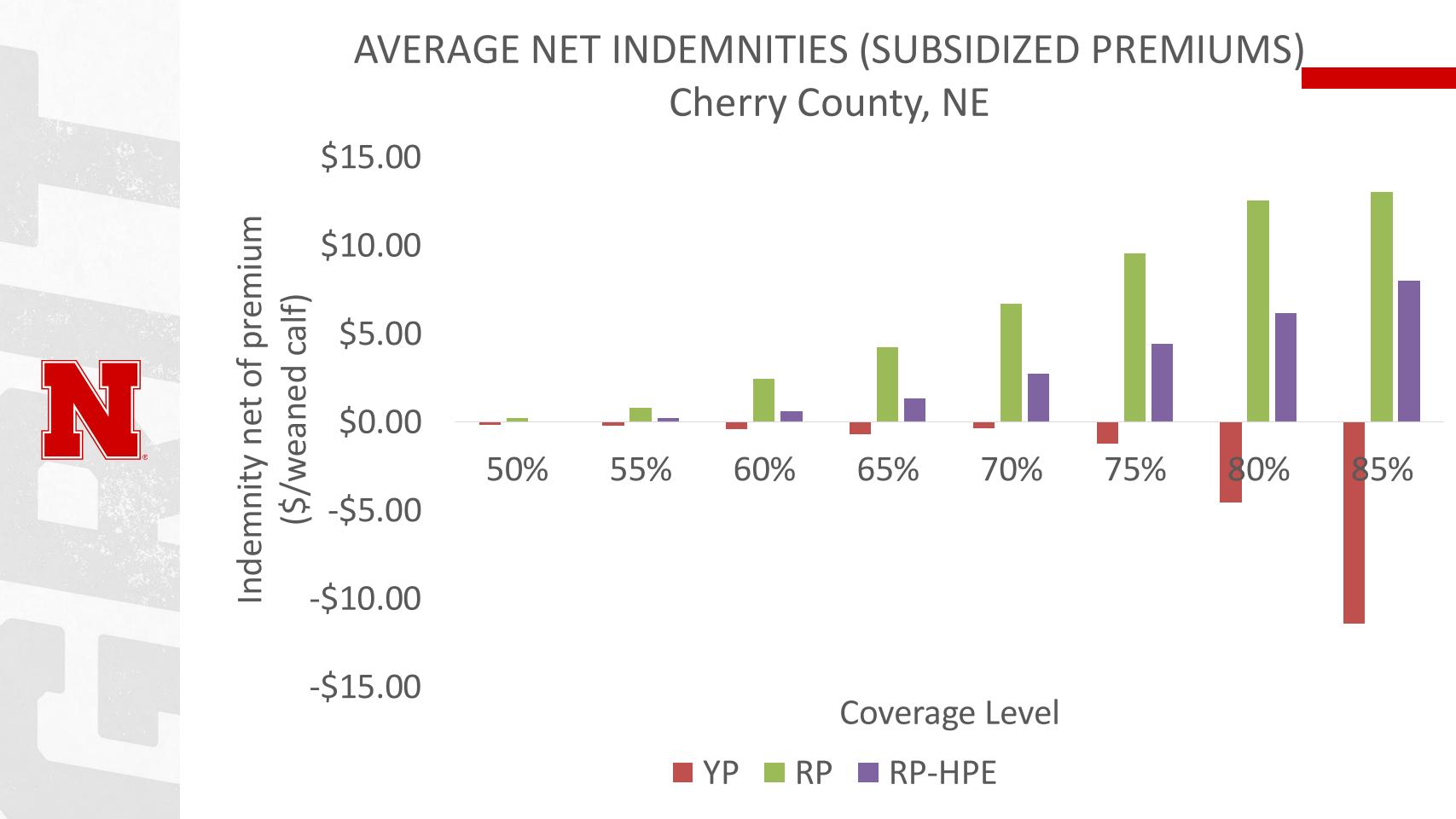
				Cov	Coverage Level						
	Price Election	85%	80%	75%	70%	65%	60%	55%			
Panel (a): F	Producer Premiu	ıms Per He	ead								
YP	100%										
RP	100%	\$ 71.00	\$37.00	\$19.00	\$ 9.00	\$ 5.00	\$ 2.00	\$ 1.00			
RP-HPE	100%	\$ 60.00	\$31.00	\$16.00	\$ 8.00	\$ 4.00	\$ 1.00	\$ 1.00			
Panel (b): I	Producer Premiu	ıms Per Cı	vt (6.5 cw	rt)							
YP	100%										
RP	100%	\$ 10.92	\$ 5.69	\$ 2.92	\$ 1.38	\$ 0.77	\$ 0.31	\$ 0.15			
RP-HPE	100%	\$ 9.23	\$ 4.77	\$ 2.46	\$ 1.23	\$ 0.62	\$ 0.15	\$ 0.15			
Panel (c): F	Relative Cost to 6	65% Cover	age Level								
YP	100%										
RP	100%	\$ 66.00	\$32.00	\$14.00	\$ 4.00	\$ -	\$(3.00)	\$ (4.00)			
RP-HPE	100%	\$ 56.00	\$27.00	\$12.00	\$ 4.00	\$ -	\$(3.00)	\$ (3.00)			
Panel (d): I	Relative Multiplie	er to 65% C	overage l	Level							
ΥP	100%										
RP	100%	13.20	6.40	2.80	0.80	_	(0.60)	(0.80)			
RP-HPE	100%	14.00	6.75	3.00	1.00	_	(0.75)	(0.75)			

T-Yields by Select Counties in NE

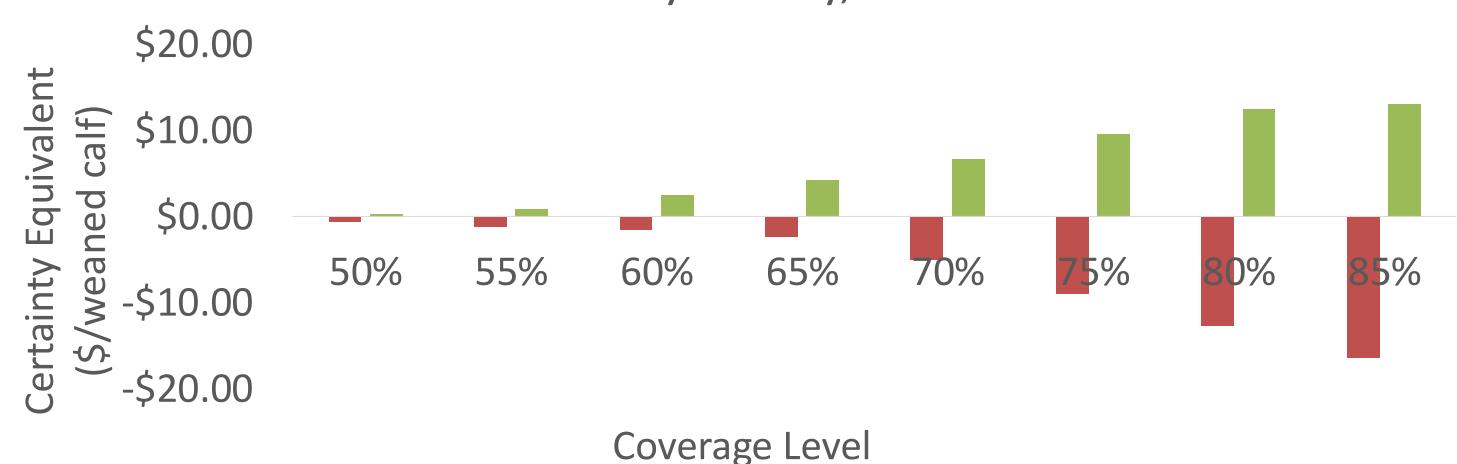


		We	eaning Wei	ight T-Yield	ds in:		
Year	Banner	Buffalo	Cherry	Dundy	Pierce	Thayer	Ī
2001 and Prior	542	574	501	542	542	542	
2002	526	586	535	526	526	526	T
2003	545	578	552	545	545	545	T
2004	562	597	567	562	562	562	T
2005	558	612	558	558	558	558	T
2006	550	611	557	550	550	550	T
2007	539	590	547	539	539	539	
2008	546	568	560	546	546	546	T
2009	548	558	579	548	548	548	
2010	536	561	550	536	536	536	T
2011	539	561	566	539	539	539	
2012	519	557	522	594	519	519	
2013	545	577	556	545	545	545	
2014	562	594	555	562	562	562	
2015	579	565	552	550	550	550	
2016	551	577	571	551	551	551	
2017	553	568	565	553	553	553	
2018	553	575	551	553	553	553	
2019	610	571	565	553	553	553	
2020	600	573	563	550	550	550	
2021	555	570	573	555	555	555	
2022	563	573	557	557	549	549	
2023	555	571	555	554	546	546	
2024	555	571	555	554	546	546	
							T





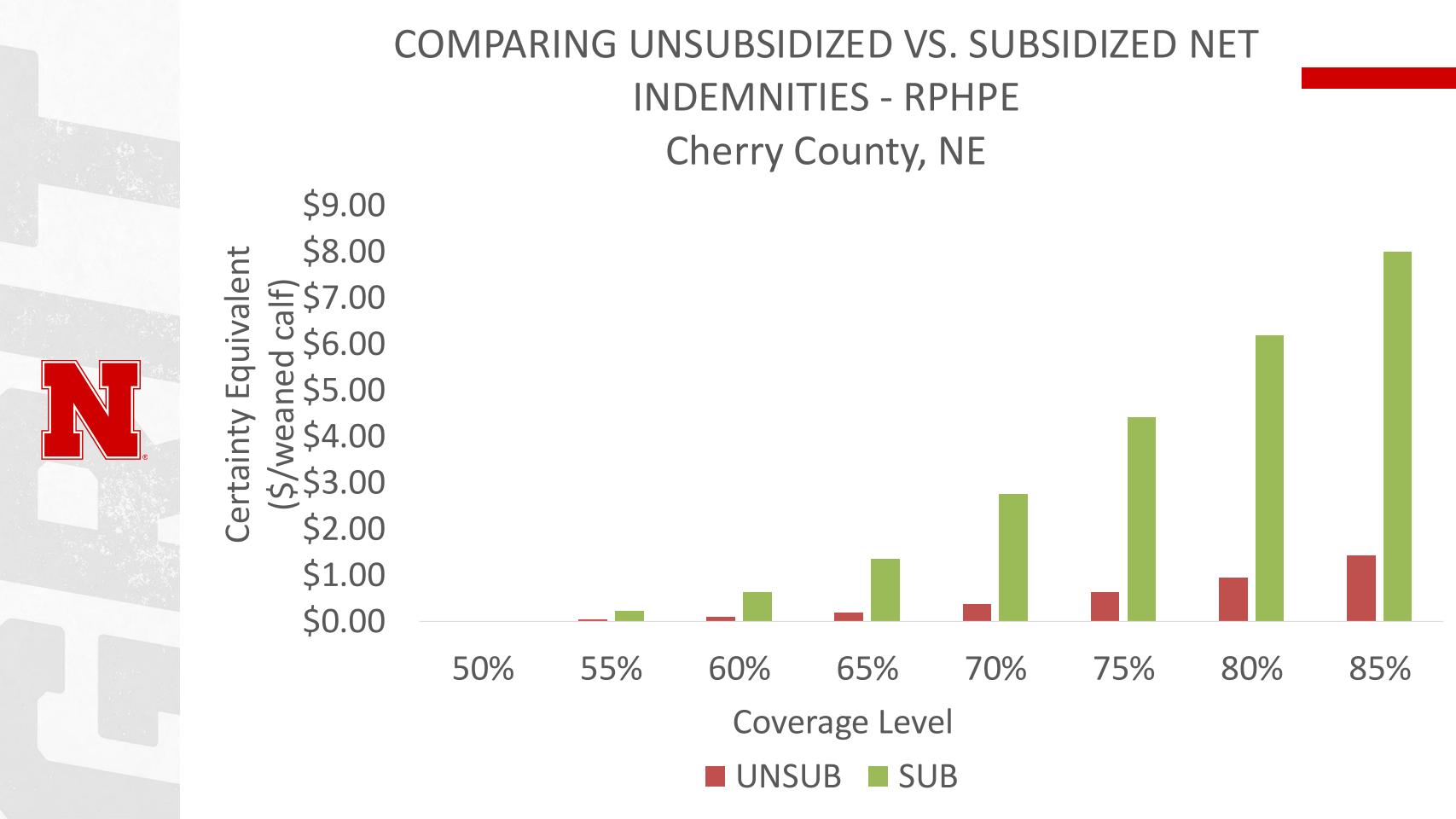
COMPARING UNSUBSIDIZED VS. SUBSIDIZED NET INDEMNITIES - RP Cherry County, NE



certainty equivalent is the amount of money you'd need to feel equally happy choosing the guaranteed option instead of taking the gamble.

■ UNSUB ■ SUB

If you're **risk-averse** (you don't like risk), you might accept \$40 as a guaranteed amount and skip the gamble, even though the average outcome of the gamble is \$50.





This implies that downside price risk is more likely and reflects the more expensive premium under RP relative to RP-HPE.

- This implies a greater willingness to pay for insurance for RP which provides both price upside and downside risk protection.
- Does not necessary imply the best risk management option.





Commodity	Insurance	State	Policies	Policies Earning		Liabilities	Total Prem	Subsidy
Year	Plan	Abbrv.	Sold	Prem	Head	(\$)	(\$)	(\$)
	Revenue							
2024	Protection	CO	7	6	751	442,918	32,667	16,994
	Revenue							
2024	Protection	NE	5	2	29	34,949	1,522	759
	Revenue							
2024	Protection	SD	10	3	219	244,909	9,321	4,307
	Revenue							
2024	Protection	TX	4	1	693	405,640	5,907	3,780





More favorable if underweight (i.e. less discounts) than overweight (i.e. more discounts)

Backgrounding

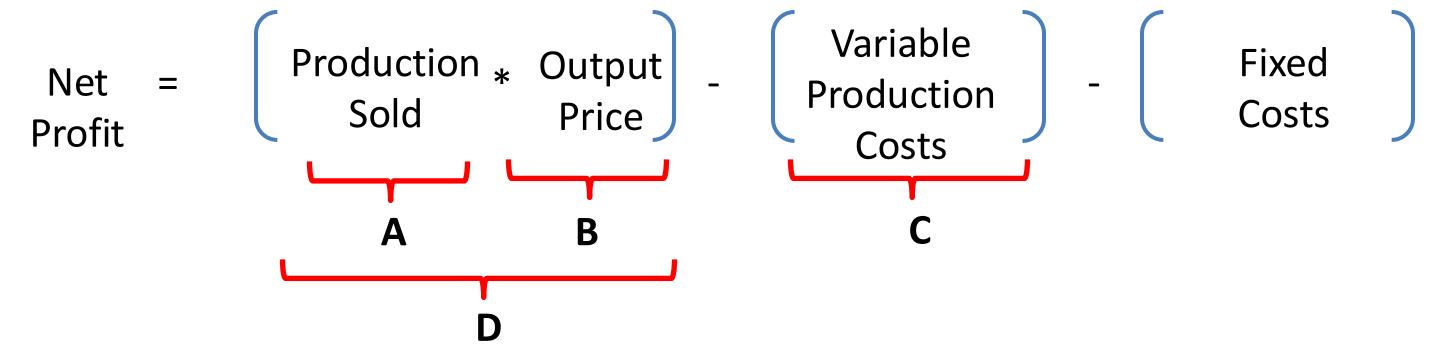
If on a slow growth ration post-weaning (< 1.5 ADG), backgrounded adjusted weaning weights will be lower than actual weaning weights

Combined Risk Management

Not able to use LRP but can still use Futures and Options. Lots of information from crop insurance



What Risk Do You Want To Manage?



Types of Subsidized Risk Management Tools

A – WCRP-YP

B – CME Futures + CME Options, LRP

C – Pasture Range and Forage Insurance (PRF), Annual Forage (AF)

D – WCRP-RP, WCRP-RP w/HP exclusion



COMMENTS, QUESTIONS, AND SUGGESTIONS

Contact Information
elliott.dennis@unl.edu
402-472-2164







- Regional Factor: Adjusts futures price during price discovery to regional price
- CME November'24 Feeder Cattle \times North Central Regional Factor $$2.55/lb. \times 1.02 = $2.60/lb.$ base weight price

Regional Factor:
$$RF = \left(\frac{y_{Region_{P1}}}{y_{Futures_{P1}}}\right)$$

Regional Base Price: $y_{RegBase_{P1}} = RF \times y_{Futures_{P1}}$





- Weaning can occur at different weights
- Base price: 650 lbs. (each county has their own base wt)
- USDA-AMS market prices used to create a "price-weight slide" to base price by region

$$Weight \ Differential: \ \hat{y}_{RegD_1} = \frac{\left(\frac{y_{RegMAX(300-400)_1}}{y_{Reg650_{P1}}}\right) - 1}{650 - 300}$$

Example:

WD = $((300 \text{ lbs. price} \div 650 \text{ lbs. Price}) - 1) \div (650-300) \text{ lbs.}$

WD = $((\$3.00 \div \$2.60) - 1) \div 350$ lbs.

WD = $((\$1.1538) - 1) \div 350$ lbs.

 $WD = (\$0.1538) \div 350 \text{ lbs.}$

WD = 0.0004 => 0.04% "price slide)

