Crop Risk Management for 2023 Prices, Budgets, and Risk Management Decisions farmdoc **ILLINOIS** Agricultural & **Consumer Economics COLLEGE OF AGRICULTURAL, CONSUMER** & ENVIRONMENTAL SCIENCES

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Topics

- Background Gary
- Commodity Title choices Nick
- Crop Insurance Bruce

















2023 and 2024 decisions

2023 Decisions

Pre-harvest market more particularly when buying products

Make a commodity title choice Make a choice

Choose RP at high coverage Maybe add SCO/ECO

Summer 2023

In August 2023, Look at harvest time bids for 2024

Marketing

Typical Amounts of Pre-Harvest Hedging by Date Prior to Harvest

Date		P	1	Average			
Prior to Harvest	None	1 to 10%	11 to 25%	25 to 50%	50 to 75%	Over 75%	Percent Hedged ²
January 1	29%	33%	34%	3%	1%	0%	10%
April 1	16%	15%	34%	28%	5%	2%	22%
July 1	9%	2%	14%	38%	33%	4%	41%

¹ Farmers were asked how much of 2018 expected production was forward priced using forward of futures contract.

From farmdoc Daily, May 15, 2018

https://farmdocdaily.illinois.edu/2018/05/pre-harvest-hedging-revenue-protection.html

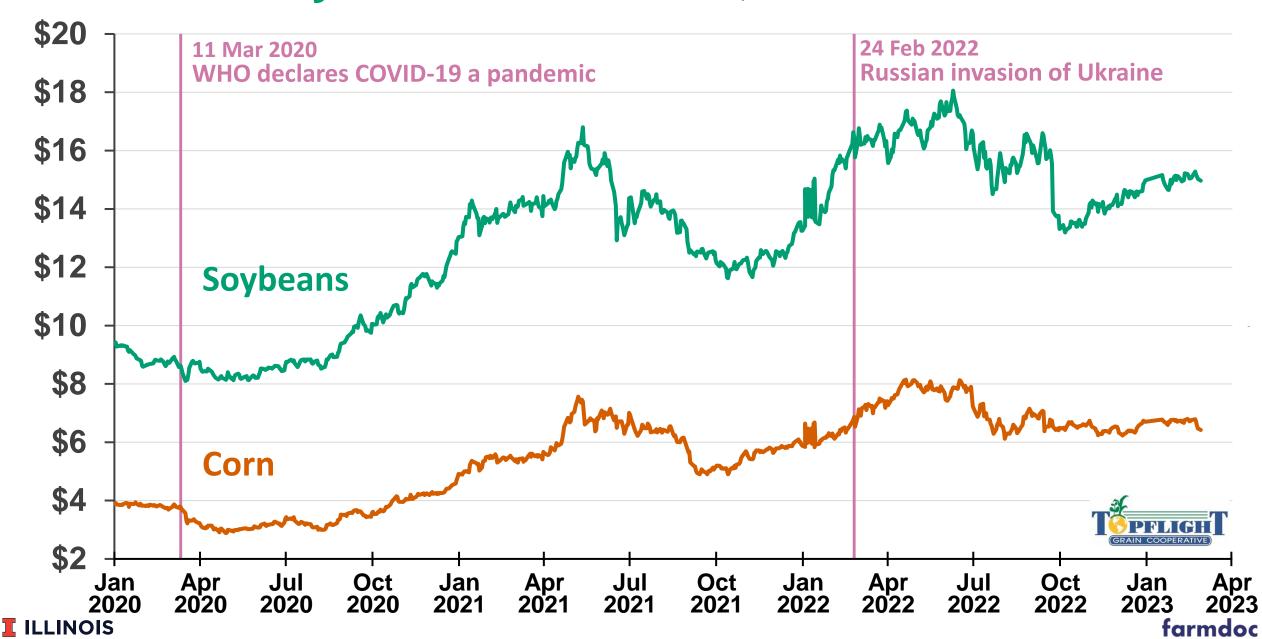
I would be higher

That is not a price projection, but a risk management suggestion



² Average percent hedged weight responses to arrive at an average percent hedged. farmdocdally

Corn and Soybean Cash Prices, Central Illinois



U.S. Prices by Marketing Year

	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
Corn	3.36	3.61	3.56	4.53	5.95	6.70	5.30
Soybeans	9.33	8.47	8.57	10.80	13.60	14.30	13.10
Wheat	4.72	5.16	4.58	5.05	7.63	9.00	7.30
						PROJI	ECTED

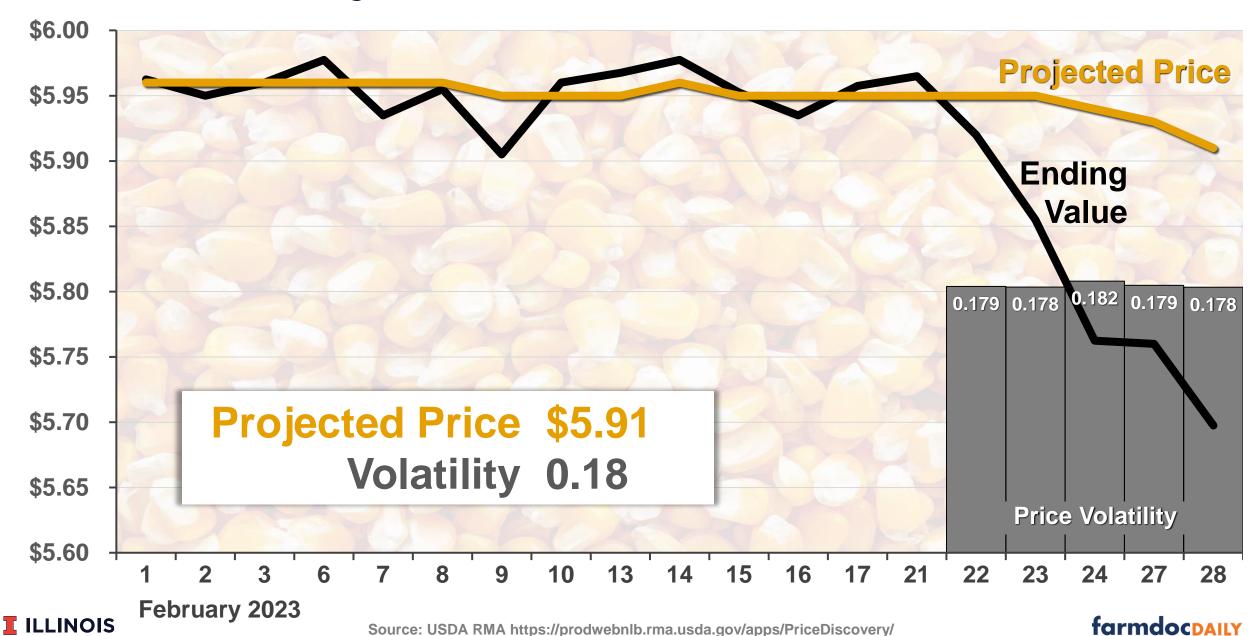
National Market Year Average (MYA) price by year

- September to August for corn and soybeans
- June to May for wheat

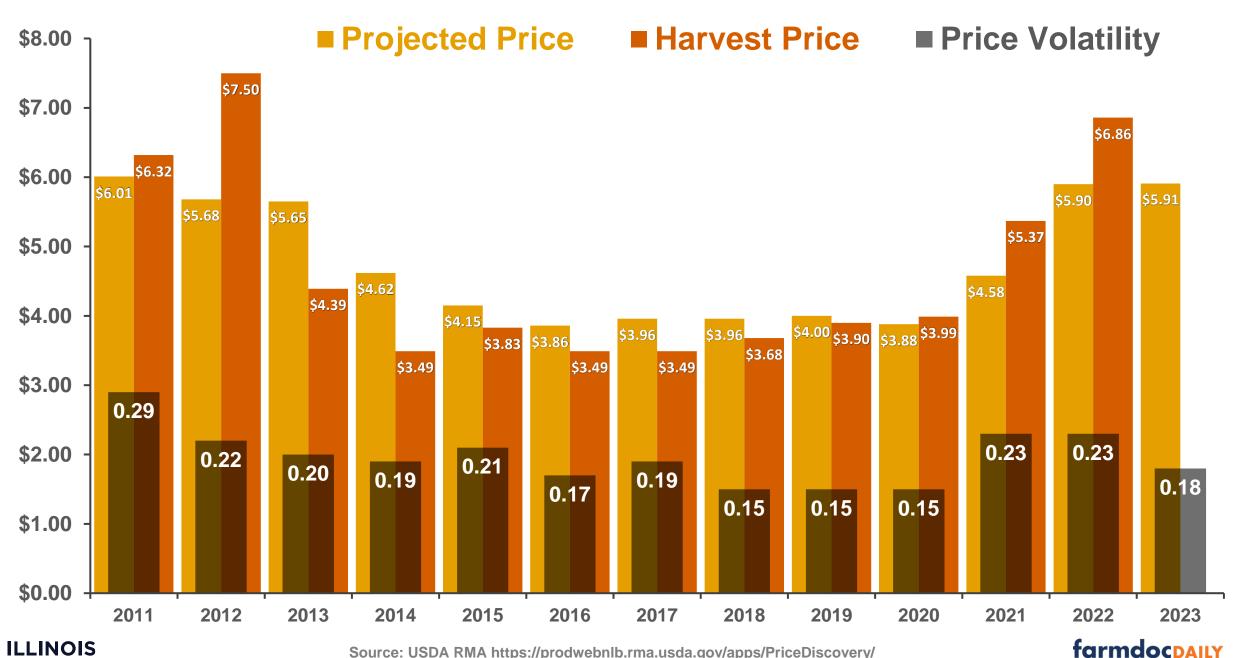
Calculated by NASS

- 2022-23 is projection in WASDE report
- 2023-24 is our projection

2023 Corn Projected Price



Illinois Corn

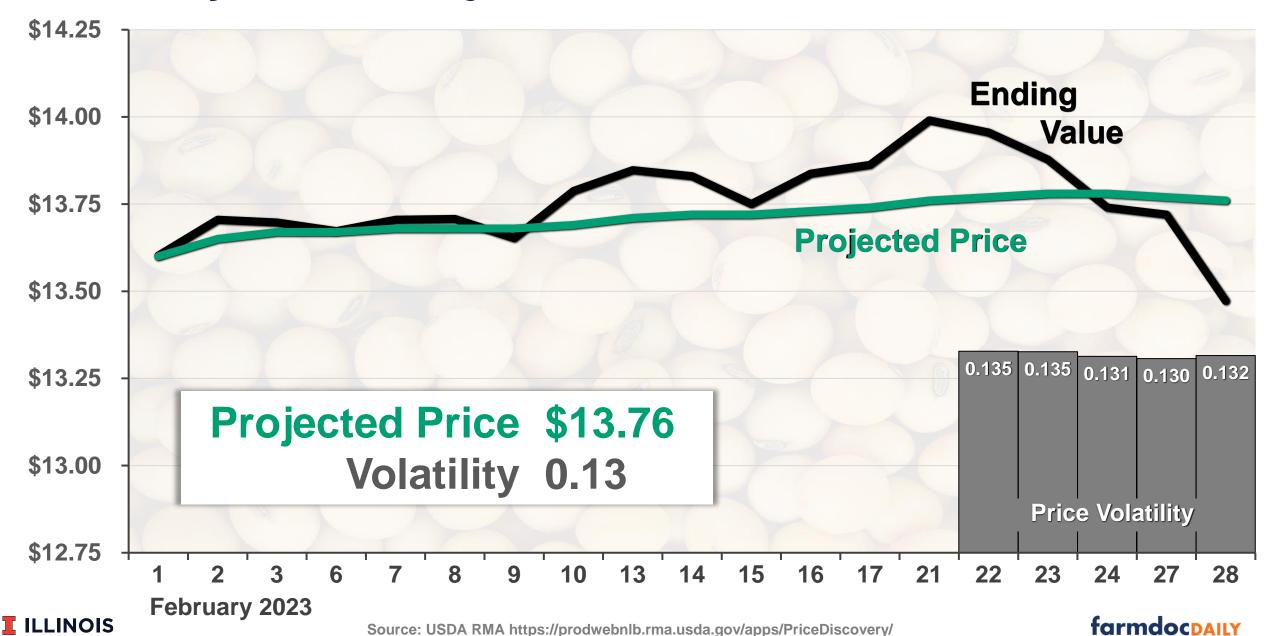


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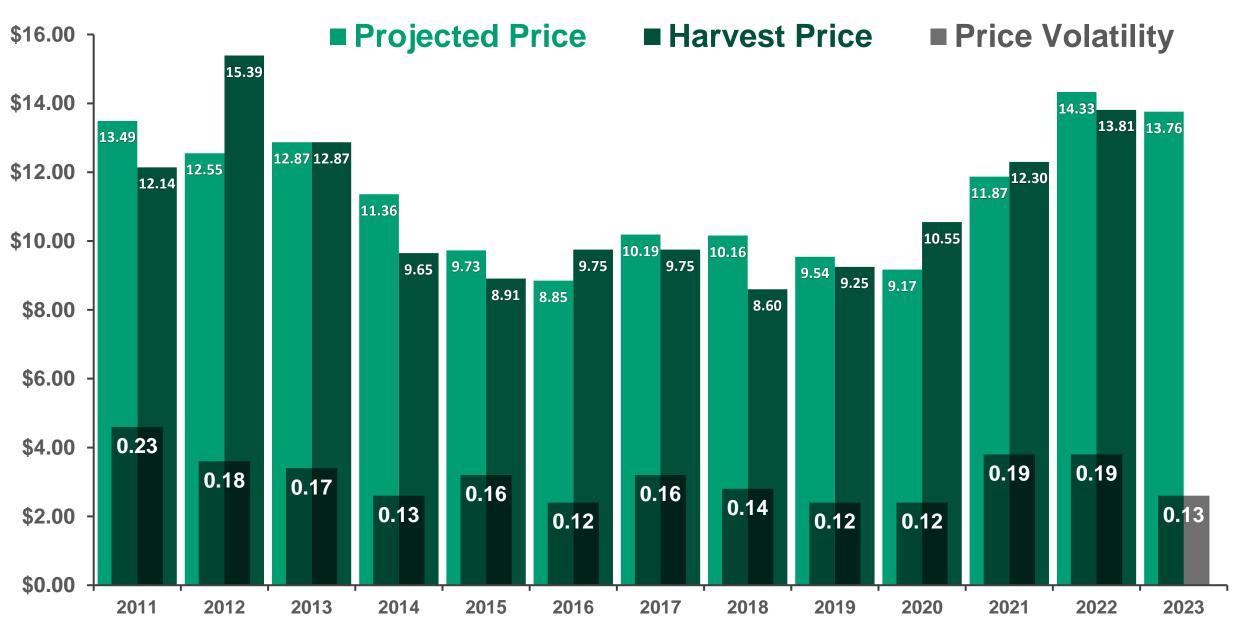
Source: USDA RMA https://prodwebnlb.rma.usda.gov/apps/PriceDiscovery/

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2023 Soybeans Projected Price



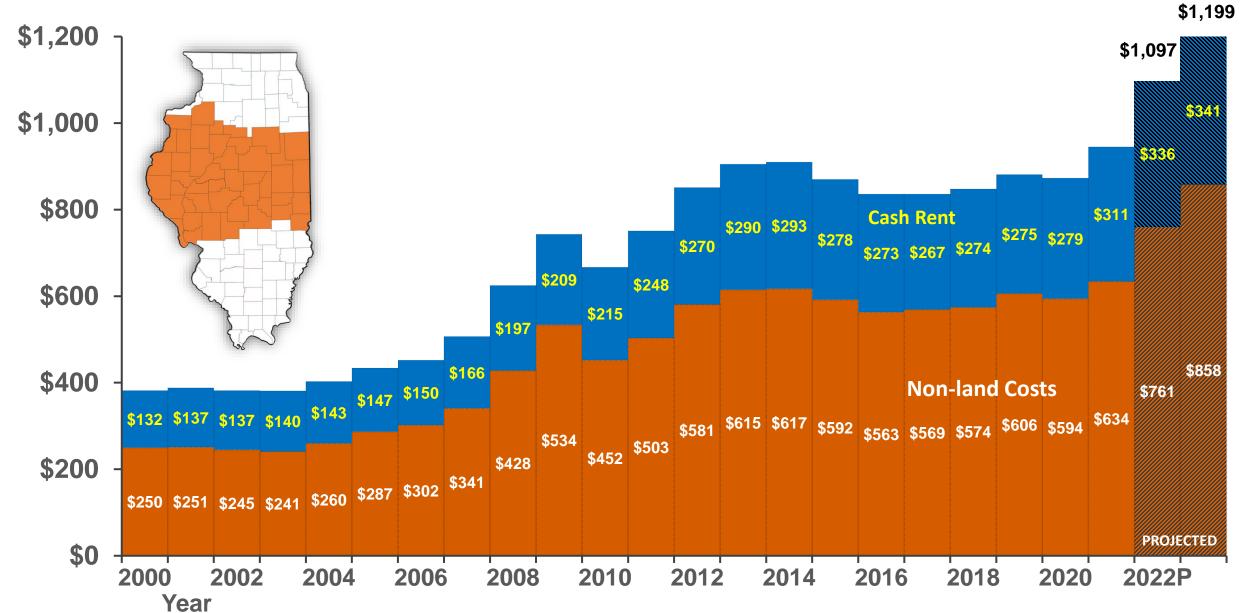
Illinois Soybeans





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Total Costs of Producing Corn for Central Illinois in \$ per acre





Minimum Cash Guarantees with RP Crop Insurance

Can approach but not cover costs at highest coverage level with crop insurance

	Corn	Soybeans
Non-land costs	\$858	\$532
Cash Rent	\$341	\$341
Total Costs	\$1,199	\$873
TA-APH yield	230	72
Projected price	\$5.91	\$13.76
Basis	-0.3	-0.3
Coverage level		Guarantees · acre)
85%	\$1,101	\$861
80%	\$1,036	\$810
75%	\$971	\$760
70%	\$906	\$709
65%	\$842	\$658
60%	\$777	\$608

RMA Insurance Products deadline is March 15

Acronym	Name	Yields used	Insures	Guarantee Increase
RP	Revenue Protection	-	Revenue	Yes
RPhpe	RP with harvest price exclusion	Farm (unit)	Revenue	No
YP	Yield Protection	(dilit)	Yield	No
ARP	Area Revenue Protection		Revenue	Yes
ARPhpe	ARP with harvest price exclusion	County	Revenue	No
AYP	Area Yield Plan		Yield	No

Add-ons to Farm Level

(provides revenue/yield or guarantee increase like underlying RP, RPhpe, YP):

SCO (Supplemental Coverage Option): county coverage from 86% to coverage of underlying RP, RPhpe, YP ECO (Enhanced Coverage Option): county coverage from [90% or 95%] to 86%

Percent Acres Insured, Illinois, Corn, 2022

Coverage Level	RP	RPhpe	YP	ARP	ARPhpe	AYP
50	1%	0%	0%			
55	0%	0%	0%			
60	%	0%	0%			
65	1%	0%	0%			0%
70	4%	0%	0%	0%		0%
75	16%	1%	0%	0%		0%
80	38%	1%	1%	0%	0%	0%
85	34%	0%	1%	0%	0%	0%
90				1%	0%	0%
Total	94%	2%	2%	1%	0%	0%

3% of acres with Margin Protection

11% of acres in Supplemental Coverage Option

6% of acres in Enhanced Coverage Option

The preferred crop insurance policy of most farmers

Most Farmers:

- Revenue Protection (RP)
- With Trend Adjustment (and use Yield Exclusion if available)
- At high coverage level

Stay with the above program, perhaps add SCO/ECO

What do I give up by using SCO and ECO on Soybeans?

Combined Po	licy Prem	niums	RP	RP	Souhoone
Coverage		RP	SCO	sco	Soybeans
Level	RP	SCO	ECO-90%	ECO-95%	Piatt County, Illinois
			\$ per a		r late Gounty, minors
50%	0.23	4.89	11.67	25.16	Enterprise Units
55%	0.35	5.02	11.80	25.29	
60%	0.51	5.17	11.95	25.44	100 acres
65%	0.78	5.44	12.22	25.71	
70%	1.29	5.89	12.67	26.16	TA-APH = 73 bu.
75%	2.30	6.67	13.45	26.94	
80%	4.65	7.94	14.72	28.21	APH = 71 bu.
85%	9.75	10.52	17.30	30.79	

Supplemental Coverage Option (SCO) – county coverage from 86% to RP coverage level Enhanced Coverage Option (ECO) – county coverage from 95% and 90% to 86%

Supplement Coverage Option (SCO)

- County coverage available in 86% to coverage level of RP policy
- Can only be used if commodity title choice is Price Loss Coverage
- Eligible for RP, RPhpe, YP (not ARP, ARPhpe, AYP)
- Coverage of SCO mimics that of the underlying RP, RPhpe, YP

Enhanced Coverage Option (ECO)

County coverage available in:

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95% to 86% 90% to 86%
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- Can be used with or without SCO
- Can be used regardless of Commodity title choice (ARC and PLC)
- Eligible for RP, RPhpe, YP (not ARP, ARPhpe, AYP)
- Coverage of ECO mimics that of the underlying RP, RPhpe, YP

Drop from RP-85% to RP-80%+SCO+ECO-90%

Advantage

- County coverage from 90% to 80%
 - Harvest price < projected price:</p>
 - 13.76×72.5 expected yield $\times .90 = 898
 - 13.76 projected price x72.5 expected yield x.80 = \$798
- Higher chance of payment and payout

Disadvantage

- Farm coverage from 85% to 80%
- Reduce prevent plant payments (60% of guarantee)
- Farmer-paid premium costs \$4.97 = (\$14.72 \$9.75)

WHIP, WHIP+, ERP – Disaster Assistance Programs

- The program increased the coverage level on crop insurance and Noninsured Crop Disaster Assistance Program (NAP) policies
- Note that the disaster program shrinks the range of coverage from

0% - 85% to 75% - 95%

Factors Used to Increase Coverage Levels on Crop Insurance Policies

Coverage Level	WHIP+	ERP
CAT	75.0%	75.0%
50%	77.5%	80.0%
55%	80.0%	82.5%
60%	82.5%	85.0%
65%	85.0%	87.5%
70%	87.5%	90.0%
75%	92.5%	92.5%
80 and 85%	95.0%	95.0%
sco	95.0%	

Commodity Title



2023 Commodity Title Choices ARC-CO and PLC

have till March 15th to make decision

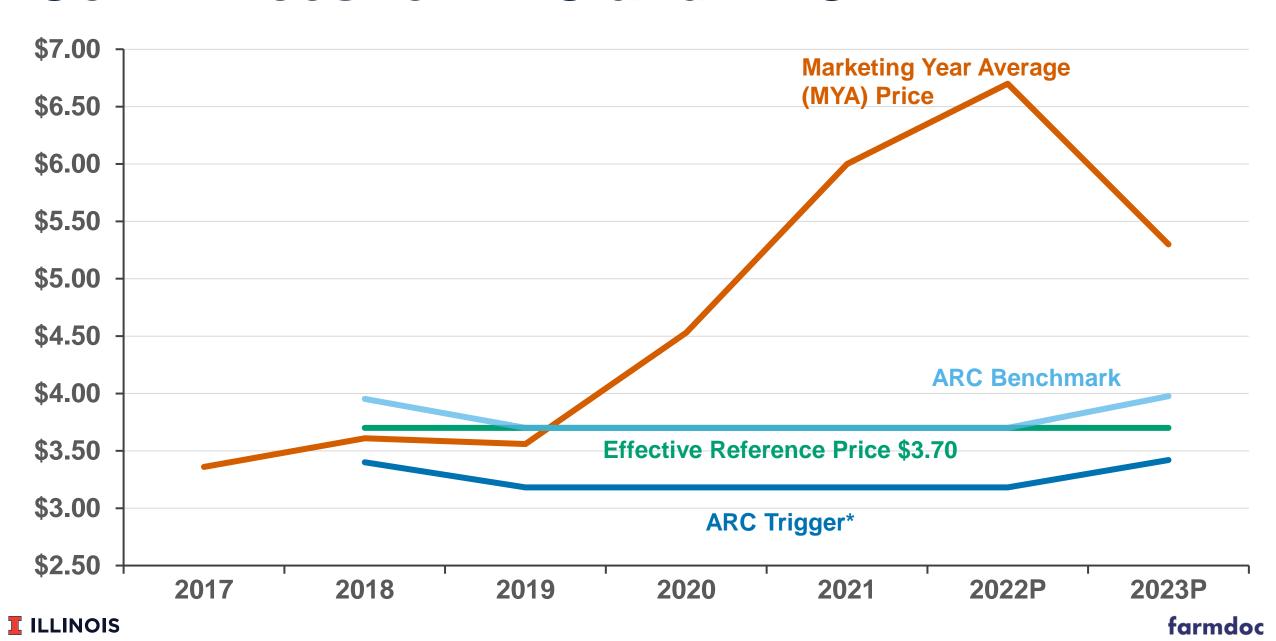
Commodity Title Choice

- Payments not likely on corn, soybean, or wheat base from PLC or ARC-CO given current prices.
 - → Don't sweat this decision
- ARC-CO more likely to trigger payments (caveat: 1% chance vs less than 1% for PLC)
- Considerations:
 - What type of risk concerns you most?
 - Crop insurance choices/options (use of SCO requires PLC)

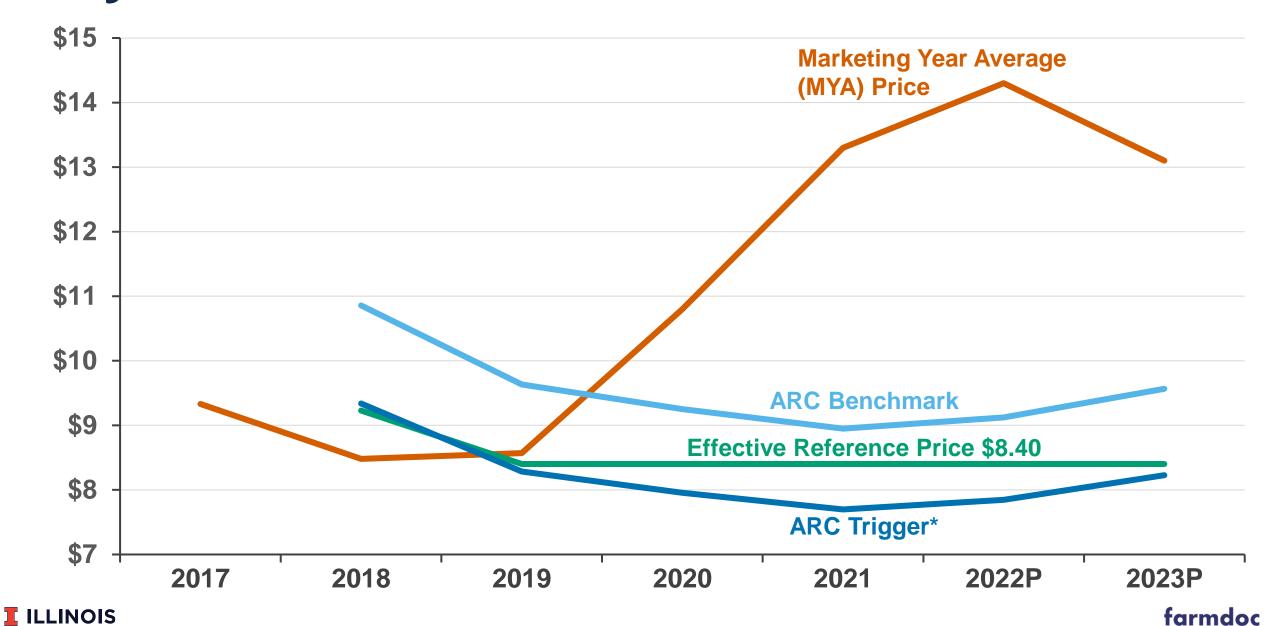
The Decision Have until March 15

Farm	Program Crop	Crop Choice	OR		
FSA Farm	Corn	PLC/ARC-CO	ADC IC		
1	Soybeans	PLC/ARC-CO	ARC-IC		
FSA Farm	Corn	PLC/ARC-CO	ARC-IC		
2	Soybeans	PLC/ARC-CO	ARC-IC		

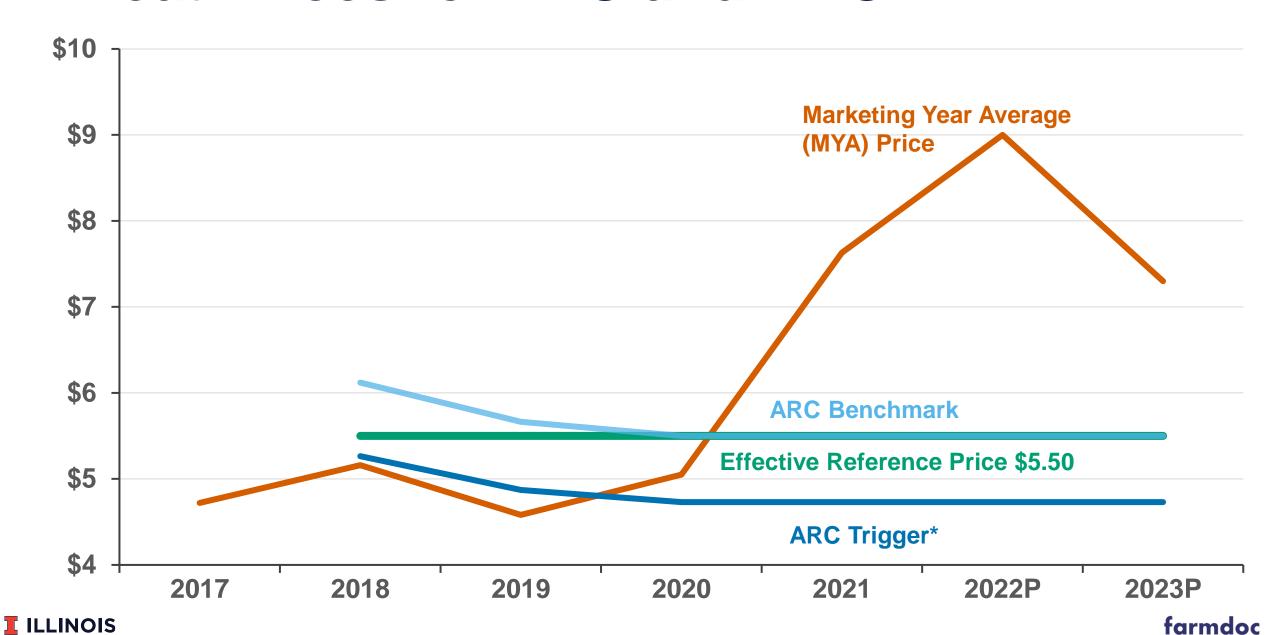
Corn Prices for PLC and ARC



Soybean Prices for PLC and ARC



Wheat Prices for PLC and ARC

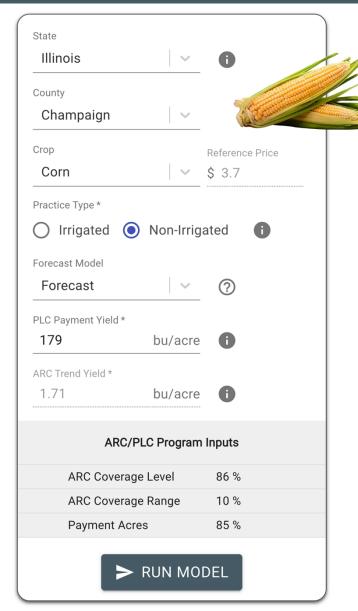


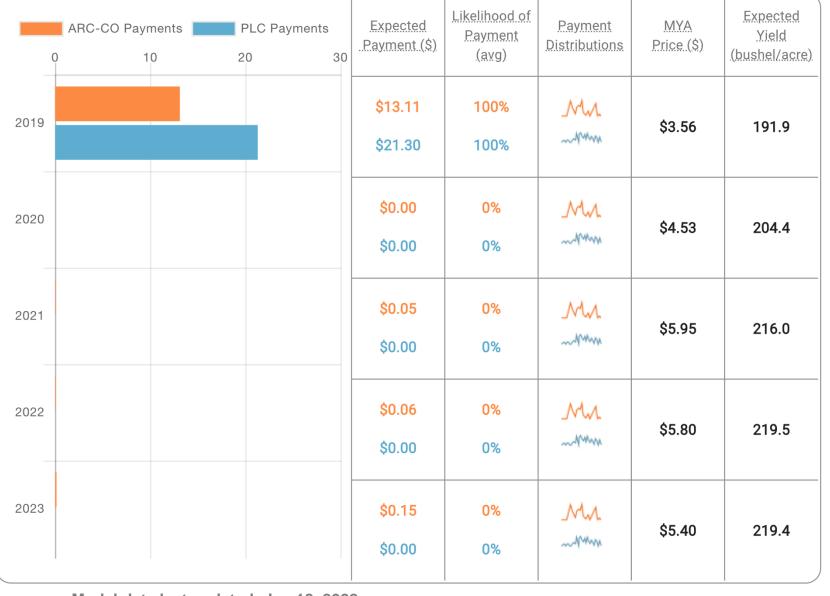
Corn, from Farm Bill What If Tool

Program Se	election	PLC min	us ARC-CO		State = Illir	nois, County	y = Champa	ign, Crop =	Corn, Year :	= 2023	
Price Chan	ge	\$	0.25		ARC-CO Be	nchmark Yi	eld = 222.65	5, Benchma	rk Price = \$	3.98, Guara	ntee \$762
Yield Chan	ge		10		PLC Yield =	179, Effect	tive Reference Price = \$3.70				
-2023											
County					2023 Mark	et Year Ave	rage Price				
Yield	\$3.25	\$3.50	\$3.75	\$4.00	\$4.25	\$4.50	\$4.75	\$5.00	\$5.25	\$5.50	\$5.75
270	68	30	0	0	0	0	0	0	0	0	0
260	68	30	0	0	0	0	0	0	0	0	0
250	68	30	0	0	0	0	0	0	0	0	0
240	68	30	0	0	0	0	0	0	0	0	0
230	56	30	0	0	0	0	0	0	0	0	0
220	28	30	0	0	0	0	0	0	0	0	0
210	1	7	0	0	0	0	0	0	0	0	0
200	-7	-22	-10	0	0	0	0	0	0	0	0
190	-7	-45	-42	-2	0	0	0	0	0	0	0
180	-7	-45	-74	-36	0	0	0	0	0	0	0
170	-7	-45	-75	-70	-34	0	0	0	0	0	0











Soybeans, from Farm Bill What If Tool

Program Se	election	PLC min	us ARC-CO		State = Illin	nois, County	y = Champai	ign, Crop =	Soybeans, `	Year = 2023	
Price Chang	ge	\$	0.50		ARC-CO Be	enchmark Yi	eld = 69.81,	Benchmar	k Price = \$9	.57, Guaran	tee \$574.
Yield Chang	ge		5		PLC Yield =	= 55, Effectiv	ve Referenc	ce Price = \$8	3.40		
-2023											
County					2023 Mark	et Year Ave	rage Price				
Yield	\$7.50	\$8.00	\$8.50	\$9.00	\$9.50	\$10.00	\$10.50	\$11.00	\$11.50	\$12.00	\$12.50
95	42	19	0	0	0	0	0	0	0	0	0
90	42	19	0	0	0	0	0	0	0	0	0
85	42	19	0	0	0	0	0	0	0	0	0
80	42	19	0	0	0	0	0	0	0	0	0
75	32	19	0	0	0	0	0	0	0	0	0
70	0	6	0	0	0	0	0	0	0	0	0
65	-15	-28	-19	0	0	0	0	0	0	0	0
60	-15	-38	-55	-29	-4	0	0	0	0	0	0
55	-15	-38	-57	-57	-44	-21	0	0	0	0	0
50	-15	-38	-57	-57	-57	-57	-42	-21	0	0	0
45	-15	-38	-57	-57	-57	-57	-57	-57	-48	-29	-10



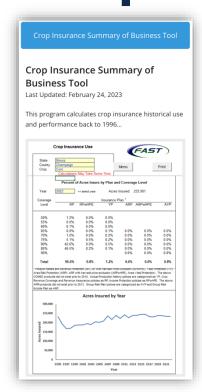
Wheat, from Farm Bill What If Tool

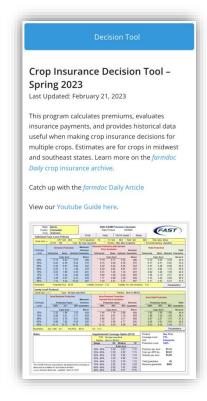
Program Se	election	PLC min	us ARC-CO		State = Illin	ois, County	y = Champai	gn, Crop = '	Wheat, Yea	r = 2023	
Price Chan	ge	\$	0.25		ARC-CO Be	nchmark Yi	eld = 78.99,	Benchmarl	k Price = \$5.	50, Guaran	tee \$373.
Yield Chan	ge		5		PLC Yield =	64, Effectiv	ve Referenc	e Price = \$5	5.50		
-2023											
County					2023 Mark	et Year Ave	rage Price				
Yield	\$5.00	\$5.25	\$5.50	\$5.75	\$6.00	\$6.25	\$6.50	\$6.75	\$7.00	\$7.25	\$7.50
105	27	14	0	0	0	0	0	0	0	0	0
100	27	14	0	0	0	0	0	0	0	0	0
95	27	14	0	0	0	0	0	0	0	0	0
90	27	14	0	0	0	0	0	0	0	0	0
85	27	14	0	0	0	0	0	0	0	0	0
80	27	14	0	0	0	0	0	0	0	0	0
75	27	14	0	0	0	0	0	0	0	0	0
70	7	8	0	0	0	0	0	0	0	0	0
65	-10	-14	-14	0	0	0	0	0	0	0	0
60	-10	-23	-37	-24	-12	0	0	0	0	0	0
55	-10	-23	-37	-37	-37	-25	-14	-2	0	0	0

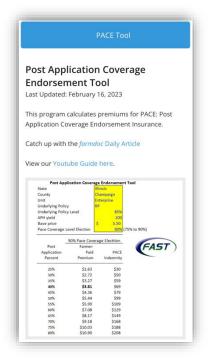


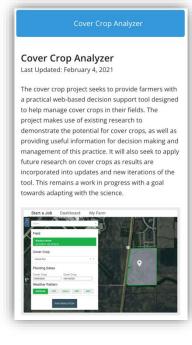


Crop Insurance Decisions - 2023

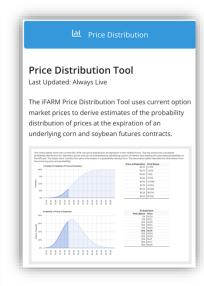












farmdoc.illinois.edu/crop-insurance



The farmdoc Crop Insurance section offers iFARM online tools including the Premium Calculator, Payment Evaluator and Price Distribution Tool. These tools are updated annually during the Spring crop insurance election period.







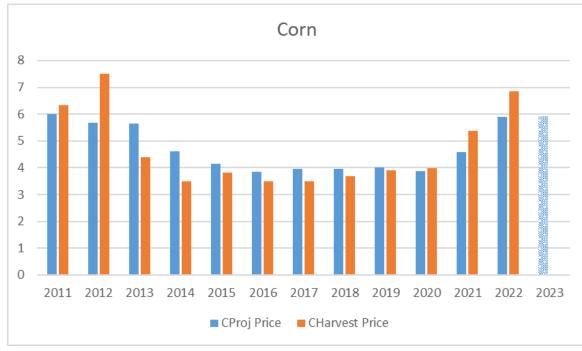
2023 Crop Insurance Prices and Volatilities

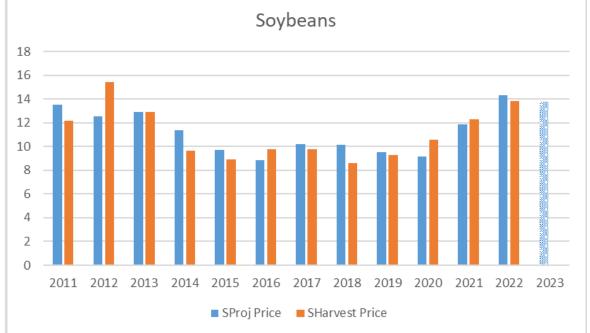
Projected Prices, Harvest Prices, and Volatilies, Corn and Soybeans, SCD 3/15 (RMA)

Corn	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Proj Price	6.01	5.68	5.65	4.62	4.15	3.86	3.96	3.96	4.00	3.88	4.58	5.90	5.91
Harvest Price	6.32	7.50	4.39	3.49	3.83	3.49	3.49	3.68	3.90	3.99	5.37	6.86	
Volatility	0.29	0.22	0.20	0.19	0.21	0.17	0.19	0.15	0.15	0.15	0.23	0.23	0.18
Soybeans													
Proj Price	13.49	12.55	12.87	11.36	9.73	8.85	10.19	10.16	9.54	9.17	11.87	14.33	13.76
Harvest Price	12.14	15.39	12.87	9.65	8.91	9.75	9.75	8.60	9.25	10.55	12.30	13.81	
Volatility	0.23	0.18	0.17	0.13	0.16	0.12	0.16	0.14	0.12	0.12	0.19	0.19	0.13

High ProjectedPrices (PP) and LowVolatility Factors

Lower Futures
Prices – impact on
HP prospects

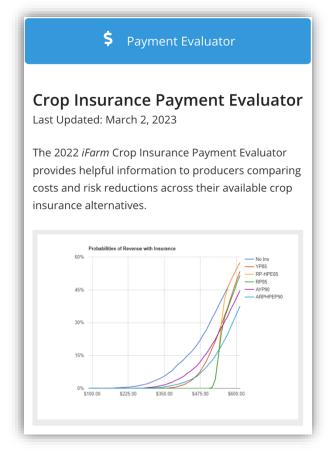


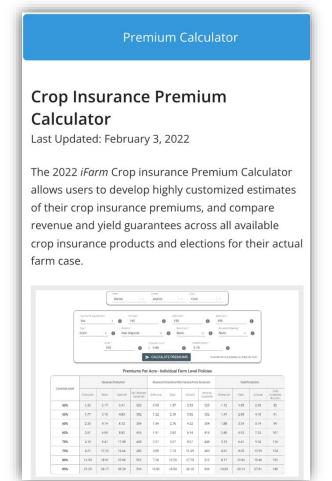


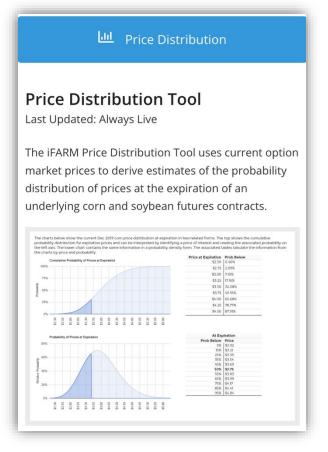
Crop Insurance Decisions - 2023

farmdoc.illinois.edu/crop-insurance

Suite of free tools at **farmdoc** and **farmdocDAILY** to allow users to calculate crop insurance premiums, probabilities of payment, degree of risk reduction, future price information, and policy decisions related to ECO/SCO, cover crops, PACE, and other crop-risk management information.









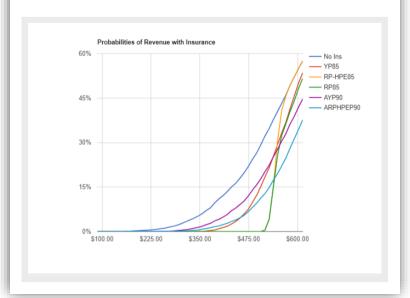
2023 Crop Insurance Payment Evaluator

\$ Payment Evaluator

Crop Insurance Payment Evaluator

Last Updated: March 2, 2023

The 2022 *iFarm* Crop Insurance Payment Evaluator provides helpful information to producers comparing costs and risk reductions across their available crop insurance alternatives.



- Evaluates expected payments, frequency of payments, net cost of insurance, risk reduction, and likelihood of revenue for corn and soybean producers under actual current conditions
- 11 States, all counties, representative case farm by county
- Example county used to demonstrate note that insurance offering rates can vary widely within a small geographic region – important to consult qualified insurance agent



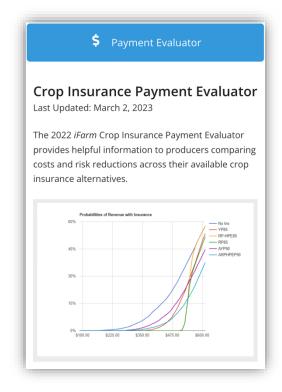
Evaluator - Enter your farm information to evaluate crop insurance options for 2023



This tool develops a case farm for most counties in the major corn and soybean production regions, and provides estimates of premiums for all available crop insurance products, along with the expected frequency of payments, average payment per acre, net cost per acre, and risk reductions associated with alternative crop insurance products.

Case Farm Info Insuran	ce Evaluator	Revenue Risk I	Info				
Farm Average Yield	197.00 bu/acre			Farm Yield (bu	/acre)	County Yi	eld (bu/acre)
Farm Std Dev of Yield	38.20 bu/acre	30% of years	s yields below	178.82		18	33.17
County Average Yield	197.00 bu/acre	20% of years	s yields below	165.36		17	72.25
County Std Dev of Yield	30.56 bu/acre	10% of years	s yields below	145.91		1!	56.11
Current Futures Price	\$5.69 /bu	5% of years	s yields below	129.41		14	42.06
Std Dev of Price	1.11 /bu		Farm Trend-	Adjusted APH	197.00	bu/acre	
Average Harvest Cash Basis	0.35 /bu		Co	ounty TA Rate	1.85 bu	/acre/year	
Average Gross Crop Rev	\$1036 /acre		F	arm APH (ref)	187.75	bu/acre	

Farm TA Yield (bu/acre): 197.00 Dec. 23 Futures Price: \$5.69 RMA 2023 Projected Price: \$5.91





State County Crop Acres *

Illinois Champaign Crop Acres *

Farm TA Yield (bu/acre): 197.00

Dec. 23 Futures Price: \$5.69

RMA 2023 Projected Price: \$5.91

Individual Farm Level Policies using Basic Unit

Coverage		Revenue Protection (RP)				Revenue Protection With Harvest Price Exclusion (RP-HPE)					Yield Protection (YP)				
Level	Est. Premium (\$/acre)	Avg. Payment (\$/acre)	Payment Frequency (%)	Net Cost (\$/acre)	Avg. Gross Rev (\$/acre)	Est. Premium (\$/acre)	Avg. Payment (\$/acre)	Payment Frequency (%)	Net Cost (\$/acre)	Avg. Gross Rev (\$/acre)	Est. Premium (\$/acre)	Avg. Payment (\$/acre)	Payment Frequency (%)	Net Cost (\$/acre)	Avg. Gross Rev (\$/acre)
50%	1.44	1.06	1.2%	0.38	1035	1.16	0.61	0.9%	0.55	1035	1.18	0.68	0.8%	0.50	1035
55%	2.37	2.23	2.4%	0.14	1036	1.64	1.39	1.8%	0.25	1036	1.81	1.34	1.6%	0.47	1035
60%	3.46	4.65	5.1%	-1.19	1037	2.06	3.12	3.9%	-1.06	1037	2.49	2.55	2.6%	-0.06	1036
65%	5.61	8.81	8.6%	-3.20	1039	3.13	6.14	6.8%	-3.01	1039	3.88	4.54	4.4%	-0.66	1037
70%	8.15	15.58	13.4%	-7.43	1043	4.49	11.20	10.8%	-6.71	1043	5.36	7.80	7.1%	-2.44	1038
75%	14.16	25.80	19.9%	-11.64	1048	7.63	19.13	16.6%	-11.50	1047	8.64	12.87	10.6%	-4.23	1040
80%	23.71	40.66	28.7%	-16.95	1053	13.12	30.79	23.9%	-17.67	1054	13.73	20.41	15.5%	-6.68	1043
85%	38.44	61.48	39.4%	-23.04	1059	21.66	47.20	33.1%	-25.54	1061	21.03	31.08	21.6%	-10.05	1046

Farm TA Yield (bu/acre): 197.00

Dec. 23 Futures Price: \$5.69

RMA 2023 Projected Price: \$5.91

County Level Products using Basic Unit

Coverage	Area Revenue Protection (ARP)			Area Revenue Protection With Harvest Price Exclusion (ARP-HPE)					Area Yield Protection (AYP)						
Level	Est. Premium (\$/acre)	Avg. Payment (\$/acre)	Payment Frequency (%)	Net Cost (\$/acre)	Avg. Gross Rev (\$/acre)	Est. Premium (\$/acre)	Avg. Payment (\$/acre)	Payment Frequency (%)	Net Cost (\$/acre)	Avg. Gross Rev (\$/acre)	Est. Premium (\$/acre)	Avg. Payment (\$/acre)	Payment Frequency (%)	Net Cost (\$/acre)	Avg. Gross Rev (\$/acre)
70%	4.89	54.22	18.1%	-49.33	1068	4.26	36.78	22.5%	-32.52	1086	4.58	24.23	9.6%	-19.65	1056
75%	8.94	91.48	28.5%	-82.54	1092	6.74	65.37	35.2%	-58.63	1121	6.26	39.38	15.8%	-33.12	1069
80%	17.73	141.72	41.7%	-123.99	1122	12.99	104.35	50.5%	-91.36	1165	11.26	61.45	24.5%	-50.19	1086
85%	33.11	203.49	54.7%	-170.38	1156	22.90	153.03	65.9%	-130.13	1216	15.93	92.10	36.0%	-76.17	1112
90%	55.78	273.79	67.4%	-218.01	1189	36.53	209.30	79.2%	-172.77	1273	23.98	132.42	49.8%	-108.44	1144

RMA 2023 Projected Price is \$5.91 with Volatility Factor of 0.18. Last Updated on Feb 28, 2023.









v1.7.0

Farm TA Yield (bu/acre): 197.00

Dec. 23 Futures Price: \$5.69

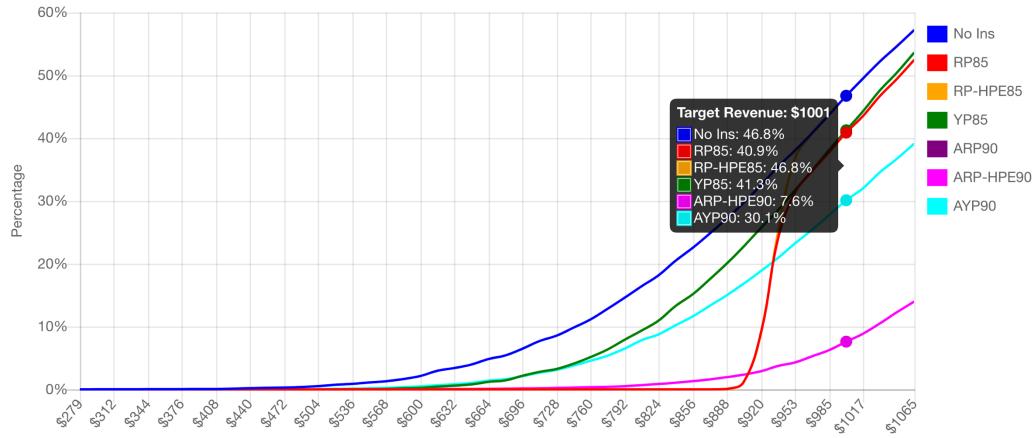
RMA 2023 Projected Price: \$5.91

Revenue Risk Info

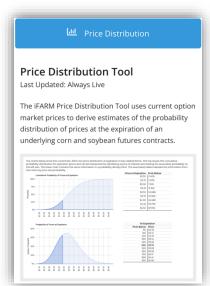
Revenue Risk compared across insurance alternatives:

Graph features interactive feature to compare and contrast probability of achieving different revenue levels with and without insurance coverage.

Probabilities of Corn Revenue (per acre) with Insurance - Champaign, Illinois





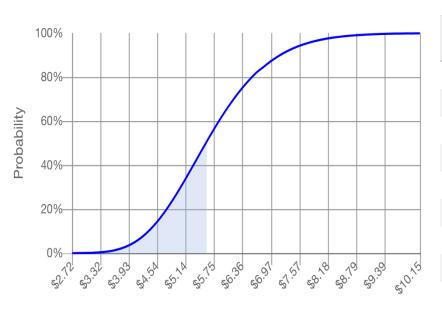


Price Distribution Tool What do the markets say prices are likely to be?

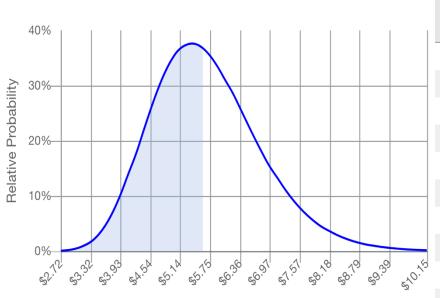
Near real time tool that uses market data to assess the **probabilities** of price movements from current date to expiration of the underlying contract. Corn & Soybeans, major traded contract months with volume.



Cumulative Probability of Prices at Expiration







Probability of Prices at Expiration

Enter	Price	to	Eval	uate:	\$5.6	9
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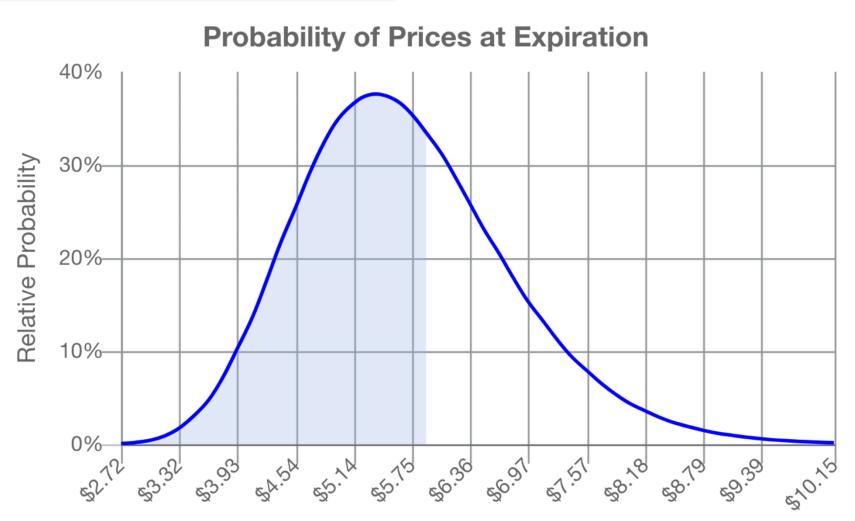
Enter	Price	to	Evaluate:	\$5.0	69
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Probability Below	Price at Expiration
5%	\$4.06
15%	\$4.57
25%	\$4.90
35%	\$5.18
45%	\$5.45
50%	\$5.58
55%	\$5.72
65%	\$6.01
75%	\$6.36
85%	\$6.82
95%	\$7.67





Select Crop and Contract Month Returns Market's Current Implied Price Probabilities



Probability Below	Price at Expiration
5%	\$4.06
15%	\$4.57
25%	\$4.90
35%	\$5.18
45%	\$5.45
50%	\$5.58
55%	\$5.72
65%	\$6.01
75%	\$6.36
85%	\$6.82
95%	\$7.67

Enter Price to Evaluate: \$5.91

The implied distribution indicates that there is a 61.60% probability that the price will be below \$5.91 at expiration.





Select Crop and Contract Month Returns Market's Current Implied Price Probabilities



Probability Below	Price at Expiration
5%	\$10.76
15%	\$11.69
25%	\$12.28
35%	\$12.77
45%	\$13.23
50%	\$13.46
55%	\$13.69
65%	\$14.19
75%	\$14.76
85%	\$15.50
95%	\$16.84

Enter Price to Evaluate: \$13.59

The implied distribution indicates that there is a 52.80% probability that the price will be below \$13.59 at expiration.

Crop Insurance Dates and Guarantee

- Final planting date:
 - Date after which you can claim prevented planting
- Late planting period:
 - 20 day after final planting period for corn, 25 days for soybeans
 - Can plant, but crop insurance guarantee goes down 1% per day
- After late planting period:
 - Insurance guarantee is 60% of original
 - Can plant another crop for harvest, but prevented planting payment is 35% of original amount

Figure 2. Final Planting Date, Corn Carroll Ogle Du Pagabak Whiteside Rock Island Henry La Salle Grundy Hutnam Mercer Kankakee Marshall Livingston Henderstwarren Iroquois Tazewell Mclean ancock Mcdonough Fulton June 5 -Champaignermillion Dewitt/ Menard Brown Cass Douglas Christian Cumberland Wacoup Montgomery JasperCrawford Bond Madison Clay Richlandwreno 0 to 2 2 to 6 Marion Clinton Wayne dwalkabash Washington Perry

May 31

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wask Mas

Figure 3. Final Planting Date, Soybeans

Prevented Planting Details

Final Planting Dates

 Date you can take a prevented planting payment for crop

 Can plant after, but guarantee is reduced

> 1% per day during late planting period

 60% of initial guarantee after late planting period



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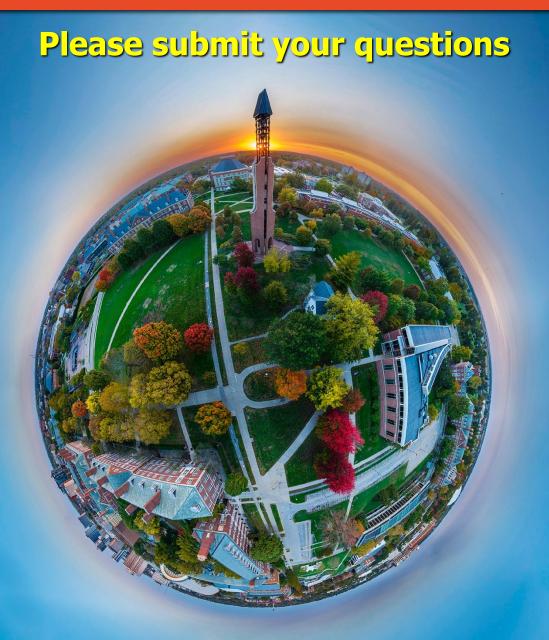
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