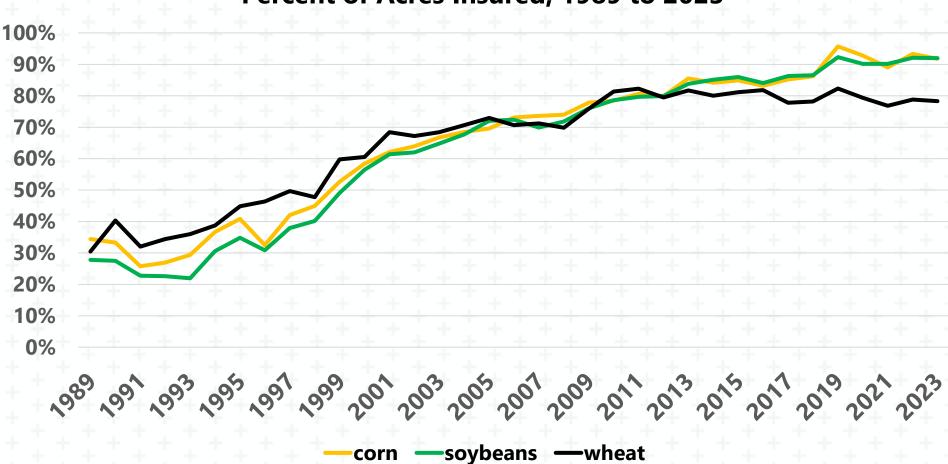
Crop Insurance

Juo-Han Tsay Assistant Extension Professor Agricultural Business and Policy Extension

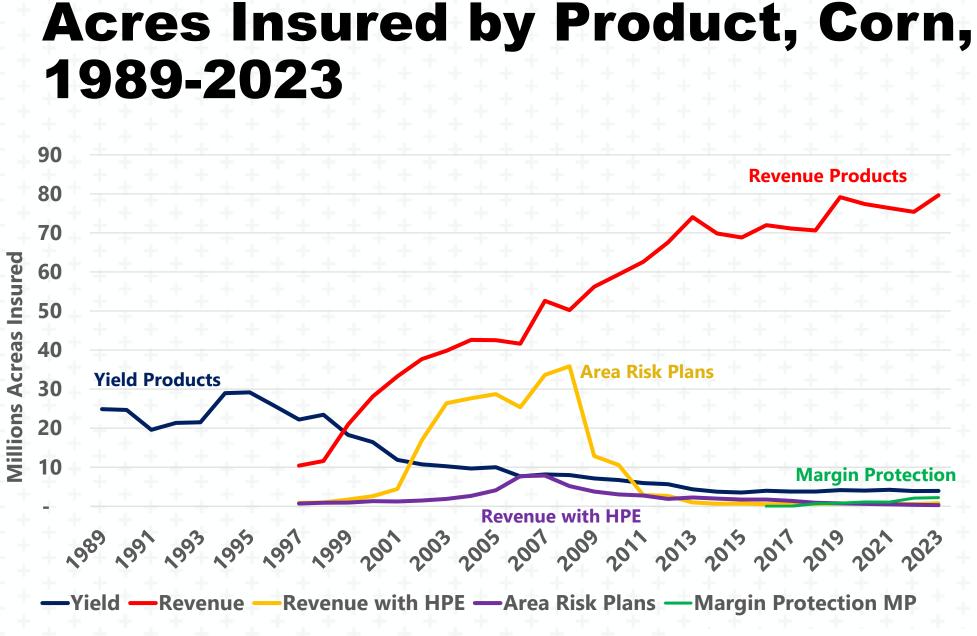


Insured Acres vs. Planted Acres



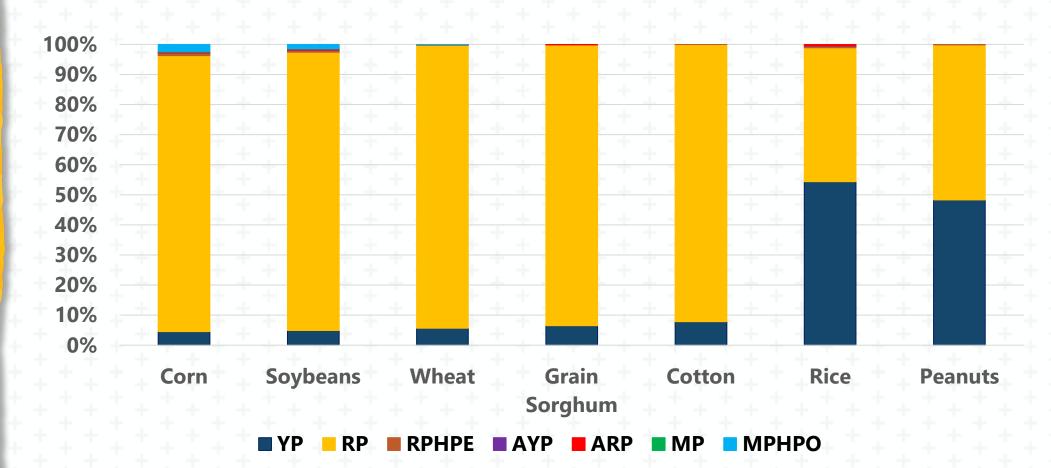
Percent of Acres Insured, 1989 to 2023

Source: USDA RMA Summary of Business, USDA NASS

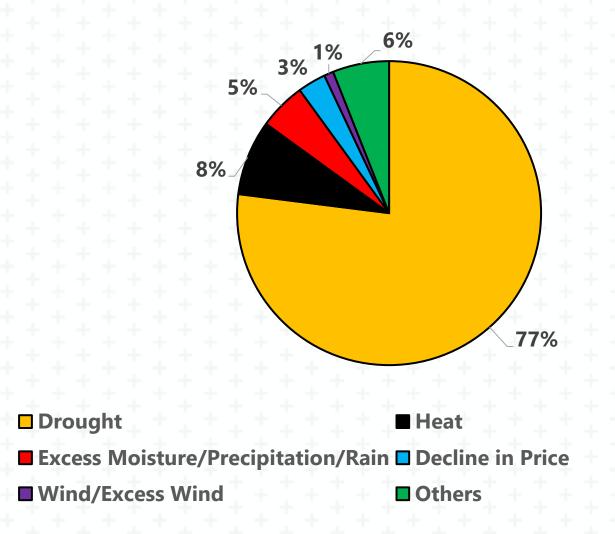


Source: USDA RMA Summary of Business

Share of Insured Acres, 2023



Cause of Loss in Missouri, 2023



Major Crop Insurance Products

	Products	Units	Insures	Guarantee Increase
RP	Revenue Protection	_	Revenue	Yes
RPHPE	RP with Harvest Price Exclusion	Farm	Revenue	No
YP	Yield Protection		Yield	No
ARP	Area Revenue Protection		Revenue	Yes
ARPHPE	ARP with Harvest Price Exclusion	County	Revenue	No
ΑΥΡ	Area Yield Plan		Yield	No

Supplemental Coverage (Add-ons to Farm-Level Products):

- SCO (Supplemental Coverage Option): county-level coverage from 86% to underlying YP, RP, RPHPE
- ECO (Enhanced Coverage Option): county-level coverage from 90% or 95% to 86%

Percent Acres Insured, Corn, 2023

coverage level	YP	RP	RPHPE	ARP	AYP
50	0.8%	1.2%	0.0%		
55	0.1%	0.1%	0.0%		
60	0.5%	1.4%	0.0%		
65	0.5%	2.1%	0.0%		
70	0.7%	10.9%	0.1%	0.0%	0.0%
75	0.8%	29.1%	0.2%	0.0%	0.0%
80	0.4%	25.5%	0.2%	0.0%	0.0%
85	0.3%	13.8%	0.3%	0.0%	0.0%
90				0.2%	0.0%
Total	4%	84%	1%	0%	0%
				-	-

• **17%** of acres in supplemental coverage options

• 2.7% of acres with Margin Protection

Percent Acres Insured, Missouri Corn, 2023

coverage level	YP	RP	RPHPE	ARP	AYP
50	1.8%	1.2%	0.0%		
55	0.1%	0.2%			
60	1.0%	1.6%			
65	0.4%	2.0%			
70	0.7%	11.9%	0.0%		
75	0.4%	37.6%	0.0%	0.0%	
80	0.1%	29.4%	0.0%		
85	0.0%	2.5%			
90				0.0%	0.0%
Total	4%	86%	0%	0%	0%

• **3%** of acres in supplemental coverage options

• **0%** of acres with Margin Protection

Percent Acres Insured, Soybeans, 2023

coverage level	YP	RP	RPHPE	ARP	AYP
50	1.2%	1.4%	0.0%		
55	0.1%	0.2%	0.0%		
60	0.8%	1.5%	0.0%		
65	0.5%	1.9%	0.0%		
70	0.7%	10.9%	0.0%	0.0%	0.0%
75	0.7%	30.8%	0.1%	0.0%	0.0%
80	0.3%	25.5%	0.2%	0.0%	0.0%
85	0.2%	12.9%	0.2%	0.0%	0.0%
90				0.2%	0.1%
Total	4.5%	85.1%	0.6%	0.2%	0.1%

• **15%** of acres in supplemental coverage options

• 1.7% of acres with Margin Protection

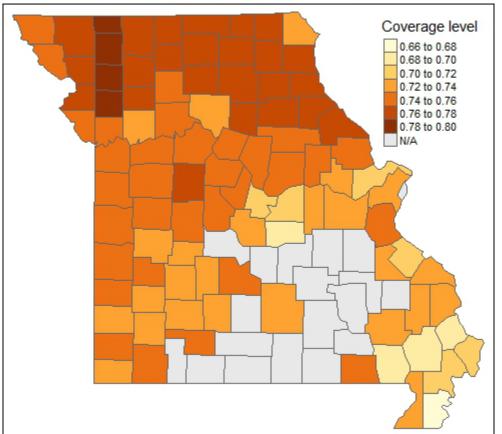
Percent Acres Insured, Missouri Soybeans, 2023

coverage level	YP	RP	RPHPE	ARP	AYP
50	3.7%	2.0%			
55	0.2%	0.4%			
60	1.0%	1.8%			
65	0.5%	2.5%			
70	0.6%	12.6%	0.0%		
75	0.6%	35.5%	0.0%	0.0%	
80	0.1%	25.8%	0.0%		
85	0.0%	2.0%		0.0%	0.0%
90				0.0%	0.0%
Total	6.7%	82.5%	0.0%	0.0%	0.0%

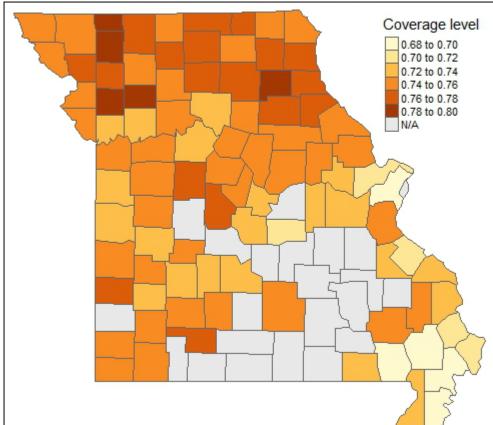
• 3% of acres in supplemental coverage options

• **0%** of acres with Margin Protection

Average Coverage Level of RP



Missouri Corn 2023



Missouri Soybeans 2023

Supplemental Coverage Option (SCO) Enhanced Coverage Option (ECO)

95% or 90%

86%	ECO Coverage (95% or 90% to 86%)	
80%	SCO Coverage (86% to 80%)	
	Individual Coverage RP, RP-HPE,	
	or YP	Acron
	(80% coverage level)	RP
		RPHPE
		YP

• Eligibility
• Must have underlying individual plan to use SCO
and/or ECO
• SCO is limited to acres enrolled in PLC. ECO has
no commodity program ties/restrictions.

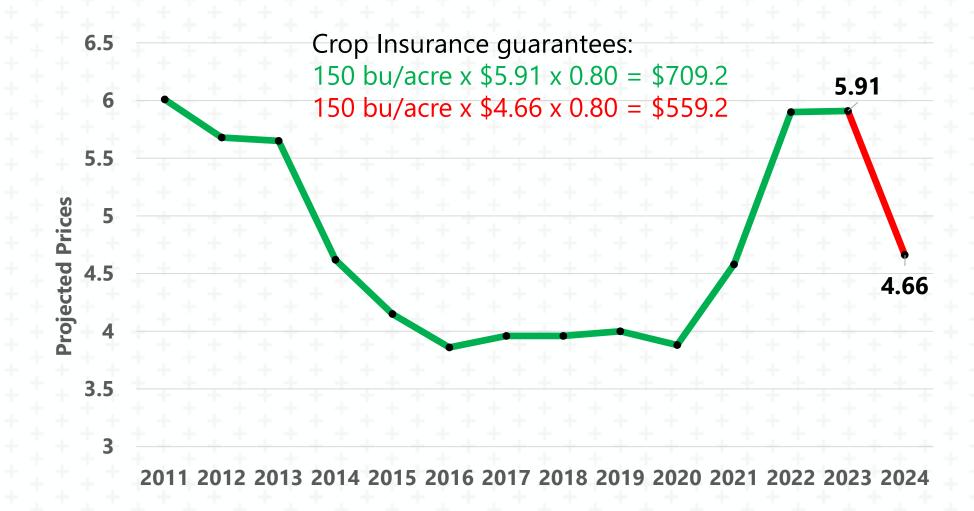
- Subsidy
 - 65% for SCO
 - 44% (revenue) or 51% (yield) for ECO

Acronym	Name	Unit	Insures
RP	Revenue Protection		Revenue
RPHPE	RP with Harvest Price Exclusion	Farm level	Revenue
ҮР	Yield Protection		Yield

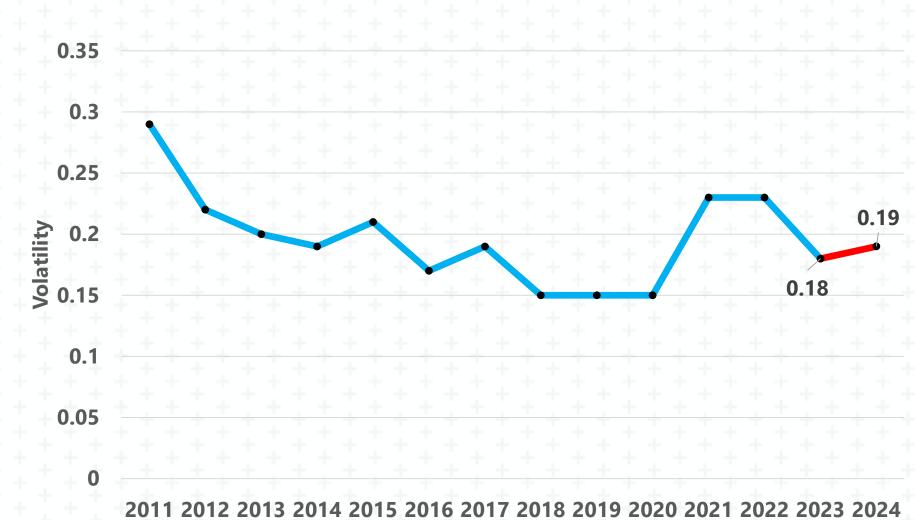
Should I choose SCO/ECO?

- Commodity title (ARC-CO vs. PLC)
- Lower individual coverage level with SCO and ECO
 - Basis risk
 - Correlation between county yields and farm yields

Projected Prices for Missouri Corn



Price Volatility for Missouri Corn



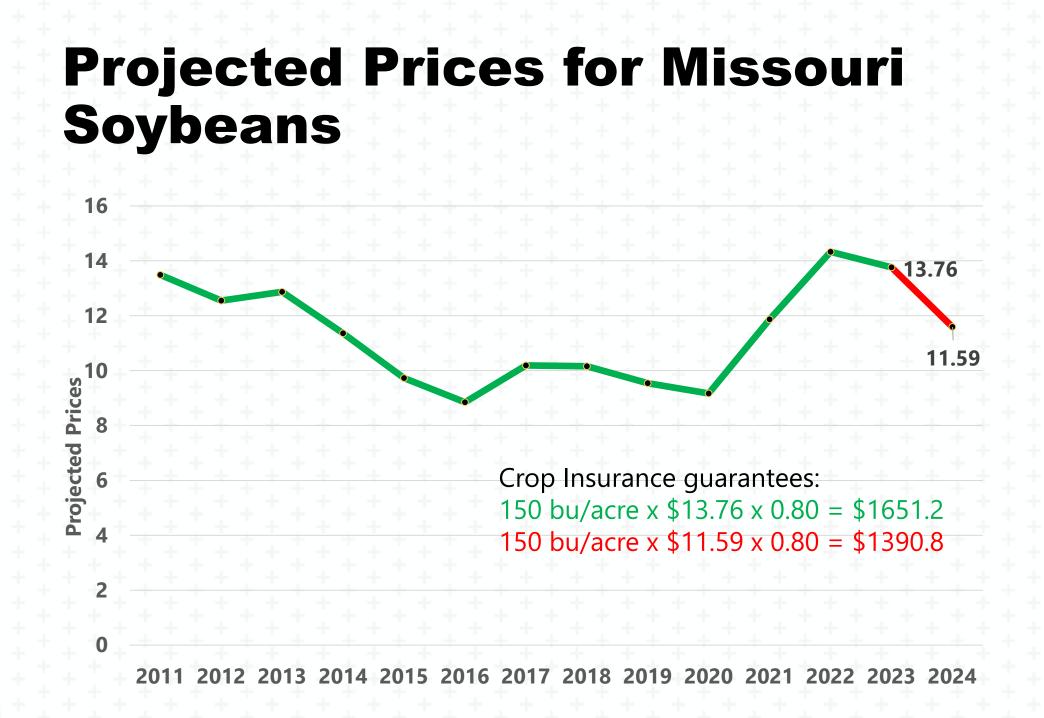
2024 Revenue Protection Premium in \$ per acre Enterprise Units, Corn, Saline County MO



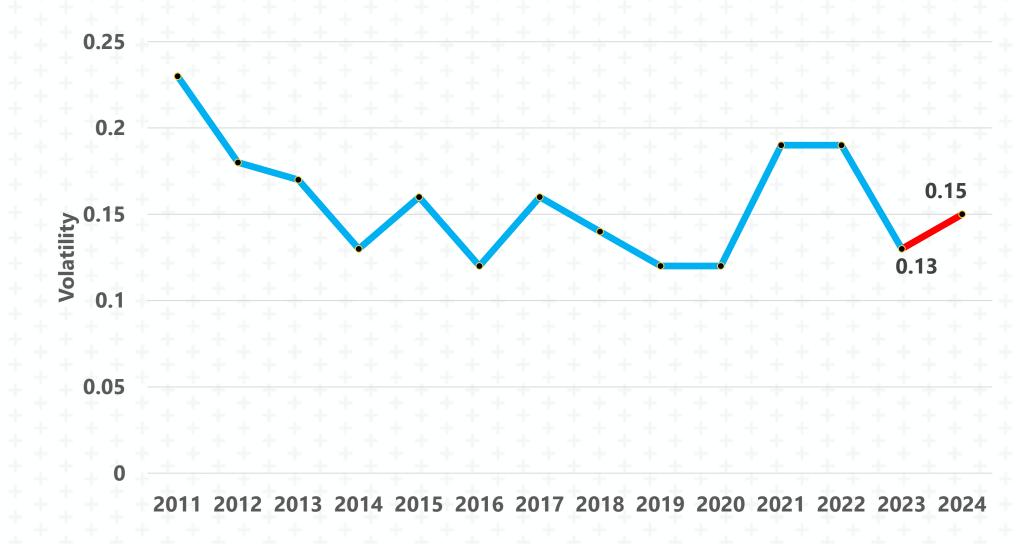
Projected Price	\$5.91	\$4.66	Durantiana
Volatility	0.18	0.19	Premium Change
50%	\$1.45	\$1.16	(\$0.29)
55%	\$2.01	\$1.62	(\$0.39)
60%	\$2.87	\$2.32	(\$0.55)
65%	\$3.98	\$3.24	(\$0.74)
70%	\$5.49	\$4.46	(\$1.03)
75%	\$8.95	\$7.28	(\$1.67)
80%	\$16.52	\$13.46	(\$3.06)
85%	\$31.31	\$25.49	(\$5.82)

About 18%-20% lower for corn in Saline County

TA yields: 157 bushels/acre



Price Volatility for Missouri Soybeans



2024 Revenue Protection Premium in \$ per acre Enterprise Units, Soybeans, Saline County MO



	T T T	T	T T T
Projected Price	\$13.76	\$11.59	Premium
Volatility	0.13	0.15	Change
50%	\$1.06	\$0.92	(\$0.14)
55%	\$1.41	\$1.23	(\$0.18)
60%	\$1.94	\$1.71	(\$0.23)
65%	\$2.66	\$2.36	(\$0.30)
70%	\$3.87	\$3.44	(\$0.43)
75%	\$6.00	\$5.32	(\$0.68)
80%	\$11.02	\$9.79	(\$1.23)
85%	\$21.66	\$19.25	(\$2.41)

About 11%-13% lower for soybeans in Saline County

TA yields: 47 bushels/acre

Conclusion

- Premium should be lower this year
- Lower revenue guarantees
- Maybe higher coverage level
- SCO consideration (ARC-CO vs. PLC)

farmdoc

 No.
 No.</th

Premium Calculator	Payment Evaluator	Lat. Price Distribution	Crop Insurance Summary of Business Tool	Cover Crop Analyzer	Margin Protection Tool
<text><text><text></text></text></text>	<text><text><text><figure></figure></text></text></text>	<text><text><text></text></text></text>	<text><text><text><image/></text></text></text>	<text><text></text></text>	<text><text><text><text><text></text></text></text></text></text>
Decision Tool	PACE Tool	ECO/SCO Payment Estimator		ANNUM	
Crop Insurance Decision Tool Last Updated: February 13, 2024 This program calculates premiums, evaluates insurance payments, and provides historical data	Post Application Coverage Endorsement Tool Last Updated: January 31, 2024 This program calculates premiums for PACE: Post	ECO/SCO Payment Estimator Last Updated: January 22, 2024 With this program, a user can estimate payments for individual farm level crop insurance products in	Here Lines Jones J		
useful when making crop insurance decisions for multiple crops. Estimates are for crops in midwest and southeast states. Learn more on the <i>formace</i> Delly crop insurance archive.	Inis program calculates premiums for PALE Post Application Coverage Endorsement Insurance. Catch up with the formdoc Baily Article View our Youtube Guide here.	addition to SCO and ECO.	https://farm	doc.illinois.edu	/crop-insurance
Catch up with the formatic Daily Article View our Youtube Guide here. Image: Catch up with the formatic daily article Image: Catch up withe formatic daily article	New Half Hold Line Guilder Hartie. Proc Application Guilder Hartie. Construction Guilder Hartie. <t< td=""><td></td><td></td><td></td><td></td></t<>				

Our Sites: farmdoc farmdocDAILY Farm Policy News Q

Market Prices Sections Tools Publications Webinars/IFES Sponsors/Donate About Us



Juo-Han Tsay

Email: tsayjh@missouri.edu Phone: 573-882-3891

muext.us/AgBusiness



@AgBusinessMU

Agricultural Business & Policy - MU Extension

