# Using the Supplemental Coverage Option in 2023

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Managing Risk with ARC, PLC, and SCO: 2023 Tradeoffs and Tools February 3, 2022





#### Introduction

- Supplemental Coverage Option (SCO) / High Coverage Policies 101
- Analysis
  - Potential payouts
  - Protecting expected revenue
    - Relationship of APH with county yields





## What are high coverage policies?



High coverage policies increase your crop insurance coverage level to up to 95% of expected revenue/gross profit margin. Any payouts on coverage levels above the underlying RP policy are based on county-level yields.





## Overall concept

- County-based trigger\*
- SCO increases RP coverage to 86%
- ECO (Enhanced Coverage Option)
  - 2 coverage choices: 86 to 90% OR 86 to 95%
  - Can be used with YP or RP
  - SCO optional
  - Can be used with ARC, cannot be used with ARP or AYP

Deductible (no coverage)	100-959
ECO Coverage range	95-86%
SCO or ARC Coverage range	86-75%
	700
MCPI coverage range	75%

Deductible (no coverage)	100-90%	
ECO Coverage range	90-86%	
SCO or ARC Coverage range	86-75%	
MCPI coverage range	75%	

Source: Deliberto 2022, https://www.lsuagcenter.com/-/media/system/7/b/3/a/7b3ad661e8932do246oag217fgdb7ace/enhanced%2ocoverage%2ooption%2oinsurancepdf.pdf





#### Other SCO details

- Cannot be used with ARC
- 65% premium subsidy
  - Lower than enterprise units for policies at 75% coverage or below
  - Higher than basic/optional unit policies at 65% coverage or above
- Covers revenue between the underlying RP/YP policy coverage level and 86%
  - Lower underlying coverage level: high SCO premium
  - Higher underlying coverage level: lower SCO premium
- Payments are not made until RMA publishes county level yields
  - 2023 payments will be made in 2024





## SCO use limited, but growing

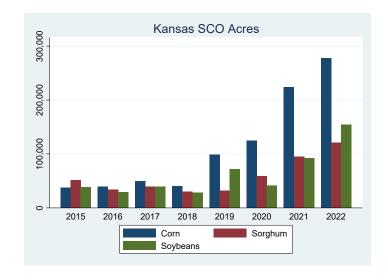
Why?

Additional cost

New product

ARC

Other types of risk management used







## Three key characteristics

- 1. SCO costs more
- 2. SCO pays out more often
- 3. Long term perspective





#### 1. SCO costs more

#### Corn 2023 Estimated Premium

2023 Finney county irrigated corn, APH yield at county average (~205 bu/acre), enterprise units

	80%	75%	70%	65%
RP	\$22	\$13	\$8	\$6
SCO	\$6	\$9	\$10	\$10

#### Soybeans 2023 Estimated Premium

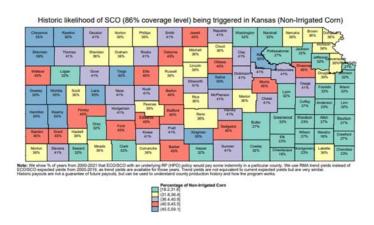
2023 Nemaha county non-irrigated soybeans, APH yield at county average (~51 bu/acre), enterprise units

	80%	75%	70%	65%
RP	\$16	\$9	\$6	\$5
SCO	\$6	\$9	\$12	\$14





## 2. SCO pays out frequently

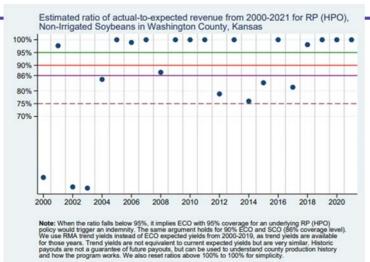




Source: https://agmanager.info/crop-insurance/kansas-crop-insurance-maps



## 2. SCO pays out frequently



Note: Washington Co. has relatively high/stable yields compared to many other KS counties/crops



Source: https://agmanager.info/crop-insurance/kansas-crop-insurance-maps



### 3. SCO polices are a long-term decision

- High coverage policies, including SCO, require a different paradigm for risk management
  - Large(r) investment in risk management
  - You can go a few years with no indemnity





### Still in a high price environment (corn)

2023 Projected Price \$5.96 (not final)

2022 Projected Price: \$5.90 (\$6.86)

2021 Projected Price: \$4.58 (\$5.37)

2020 Projected Price: \$3.88 (\$3.99)

2019 Projected Price: \$4.00 (\$3.90)

Some county expected yields are a little higher than 2022

Finney 2023 Expected Revenue: \$1222 (irrigated)
Finney 2022 Expected Revenue: \$1193 (irrigated)





#### 2023 revenue guarantee vs costs

#### Irrigated corn: SW KS

Ag manager estimate

- +**\$1418** revenue
- -\$749 direct expenses
- -\$459 indirect expenses
- =\$210 profit

70% RP guarantee: \$993 – covers direct expenses, some of indirect

some of mancee

RP + SCO guarantee: \$1219 – covers all expenses

#### Non-irrigated soybeans: NE KS

Ag manager estimate

- +\$598 revenue
- -\$299 direct expenses
- -\$178 indirect expenses
- =\$121 profit

70% RP guarantee: \$418 – covers direct expenses, some of indirect

Joine of maneet

RP + SCO guarantee: \$514 – covers all expenses,

some of profits



K-State Farm budgets: https://agmanager.info/farm-budgets



## Approaches to the SCO decision

#### **Indemnities**

General principle

Rule of thumb-compare SCO premium to liability; for example, if 70% RP policy is triggered once in 10 years (or more), SCO indemnities should cover premiums

Tools:

https://agmanager.info/crop-insurance/kansas-crop-insurance-maps,

Many agents have decision tools

### KANSAS STATE UNIVERSITY Agricultural Economics

#### **Risk Reduction**

Understanding potential 2023 payouts

Understanding correlation of your yields with county yields

Tools:

SCO & ECO Payment calculator County yield correlation tool



## SCO in 2023

#### AS STATE Agricultural Economics 2023 SCO and ECO Payment Calculator

State:	Kansas	
County:	Nemaha	
Commodity:	Corn	
Practice:	Non-Irrigated	
Туре:	Grain	
Final County Yield	120	
Harvest Price	\$5,50	
Final Revenue Amount	\$660.00	
Expected County Yield	148.4	
Projected Price	\$5.96	
Expected Revenue Amount	\$884.46	
Underlying Crop Insurance Coverage level	75%	
Farm APH	148.4	
SCO Coverage by Law	86%	
Supplemental Ins. Coverage Range	11%	
Revenue Protection County Payment Rate	1	
enue Protection-HPE County Payment Rate	1	
SCO Yield Protection County Payment Rate	0.467	
SCO Protection (RP)	\$97.29	
SCO Protection (RP-HPE)	\$97.29	
SCO Protection (YP)	\$97.29	
SCO Revenue Protection Payment	\$97.29	
SCO Revenue Protection-HPE Payment	\$97.29	
SCO Yield Protection Payment	\$45.43	

1.) Use dropdown menus in yellow to choose your state, county, commodit calculator shows #N/A, your selection is not a viable category in the RMA d work from the top down, as menus are dependent on the above selection.

2.) "Final County Yield" for most crops will not be released until June 2024 to be determined until July 2023 for winter wheat and November 2023 for fall type in projections.

3.) Projected (base) Price is not available for most 2023 crops other than wi enter your own projections. 2023 winter wheat projected price is \$8.79. (Ja prices are \$5.96 for corn, \$5.89 sorghum, and \$14.33 for soybeans)

Select a practice and type: this may vary by state and county. "FAC" is 'fo
"NFAC" is 'not following another crop'. You may need to try a few combinal
available in your state or county.

4.) Use the dropdown menu to select your underlying Crop Insurance Cover

5.) Enter your farm's Actual Production History (APH) to see your calculated equal to the county's expected yield.

6.) Use the dropdown menu to select your underlying ECO Coverage Level (

Supplemental Insurance Coverage Range is equal to 86% minus the underly Coverage Range is equal to the selected ECO Coverage Level minus 86%.

Payment Rates determine if a payment is triggered based on expected and



Agricultural Economics

 $\underline{https://agmanager.info/crop-insurance/crop-insurance-papers-and-information/2023-supplemental-coverage-option-sco-and-information/2023-supplemental-coverage-option-sco-and-information/2023-supplemental-coverage-option-sco-and-information/2023-supplemental-coverage-option-sco-and-information/2023-supplemental-coverage-option-sco-and-information/2023-supplemental-coverage-option-sco-and-information/2023-supplemental-coverage-option-sco-and-information/2023-supplemental-coverage-option-sco-and-information/2023-supplemental-coverage-option-sco-and-information/2023-supplemental-coverage-option-sco-and-information/2023-supplemental-coverage-option-sco-and-information/2023-supplemental-coverage-option-sco-and-information/2023-supplemental-coverage-option-sco-and-information/2023-supplemental-coverage-option-sco-and-information/2023-supplemental-coverage-option-sco-and-information/2023-supplemental-coverage-option-sco-and-information/2023-supplemental-coverage-option-sco-and-information/2023-supplemental-coverage-option-sco-and-information-sco-and-inform$ 



#### Risk reduction

If you are using SCO to protect your 2023 expected revenue, an important question is "Will I get an SCO indemnity if my own yields decline?"

In other words: How correlated are my yields with county level yields?





#### Correlation doesn't require equal yields

Correlation does not mean the yields are the same, but that they 'move in the same direction' or are similarly affected by adverse weather conditions

#### Positive vs. negative correlation

For most producers, individual yields will be positively correlated with county yields over time





#### New KS Yield Correlation Tool







## Yield correlation tool: information required



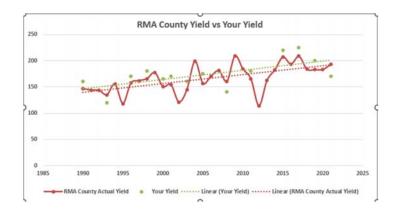
STEP 2			
Year	RMA County Actual Yield	RMA County Expected* Yield	Your Yield
1990	147	141	156
1991	144	143	
1992	143	144	
1993	135	146	145
1994	155	148	
1995	118	150	
1996	157	151	167
1997	162	153	
1998	166	155	175



https://agmanager.info/crop-insurance/crop-insurance-papers-and-information/kansas-yield-correlation-tool



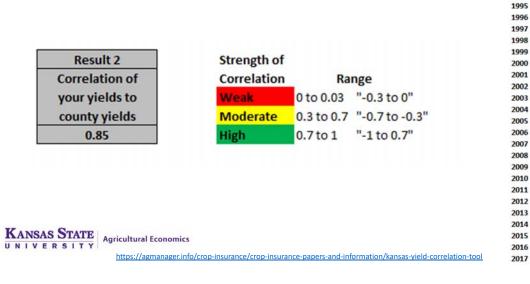
#### Yield correlation tool: result 1







## Yield correlation tool: results 2 & 3



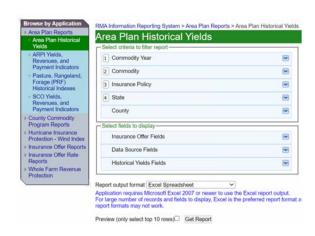
## Sources of information on county yields

#### RMA.

https://webapp.rma.usda.gov/apps/ RIRS/

AgManager.info Crop Insurance Maps: https://agmanager.info/cropinsurance/kansas-crop-insurancemaps

New Yield Correlation tool







Result 3 SCO (YP)

No

No

No

No

Yes

No

1990

1991

1992

1993 1994

Indiv. Payout Yield Loss Likely?

No

No

No

er

#### The bottom line



SCO may be attractive for producers who want to protect their profit margins and are willing to pay additional premium for this



Take a long-term perspective, consider all high coverage policies



Consider operation vs county yield trends





## Questions? Comments? Thank you!

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#### Resources

- Agmanager.info
  - <a href="https://aqmanager.info/crop-insurance/kansas-crop-insurance-maps">https://aqmanager.info/crop-insurance/kansas-crop-insurance-maps</a>
  - https://agmanager.info/crop-insurance/crop-insurance-papers-and-information/kansasyield-correlation-tool
  - <a href="https://agmanager.info/crop-insurance/crop-insurance-papers-and-information">https://agmanager.info/crop-insurance/crop-insurance-papers-and-information</a>
  - https://agmanager.info/events/risk-and-profit-conference/previous-conference-proceedings/2022-risk-and-profit-conference/13
  - https://agmanager.info/crop-insurance/crop-insurance-papers-and-information/margin-protection-insurance-introduction-and
- Farmdoc: https://farmdocdaily.illinois.edu/2021/03/rp-eco-and-sco-tradeoffs.html; https://farmdocdaily.illinois.edu/2022/08/sco-and-eco-insurance-program-use.html
- ISU: https://www.extension.iastate.edu/aqdm/crops/html/a1-44.html



