

# Making the ARC/PLC Decision Under the 2018 Farm Bill

[farmdoc.illinois.edu/2018-farm-bill](http://farmdoc.illinois.edu/2018-farm-bill)



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- Handout is available via GoToWebinar control panel
- Webinar will be archived and available on farmdoc
- Submit questions during the webinar and we will answer them at the end of the webinar



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### Gardner Program Payment Calculator (ARC/PLC)

The Gardner Payment Calculator provides estimates of expected payments and likelihood of payments for ARC-CO and PLC. Payment estimates are provided for the program years from 2019 to 2023. Users can select the state, county, and crop combination that they wish to consider.

If you are having trouble registering please [view the faq](#) or watch the video below.

 [Go to Payment Calculator](#)

State  
Illinois

County  
Champaign

Crop  
Corn

Reference Price  
\$ 3.7

Forecast Model  
Forecast

PLC Payment Yield \*  
105 bushels/acre


ARC Trend Yield \*  
1.73 bushels/acre

ARC/PLC Program Inputs

ARC Coverage Level86 %

ARC Coverage Range10 %

Payment Acres85 %




### 2018 Farm Bill What if Tool

This program calculates Agricultural Risk Coverage for County Coverage (ARC-CO), Price Loss Coverage (PLC) payments, and ARC at the Individual Level (ARC-IC). County yields and market year average (MYA) prices are brought in for a user-specified state-county-crop combination. Users then can change 2018 through 2020 county yields and prices to see ARC-CO and PLC payments under those yields and prices.

As an alternative to the executable tool you can [download the spreadsheet here](#).

 [Download FAST Tool](#)




2018 Farm Bill What-If Tool




Continue

Updated 1/6/2020

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[For recent updates on this tool and other FAST tools, visit us at \[www.farmdoc.uiuc.edu\]\(http://www.farmdoc.uiuc.edu\).](#)



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# Outline

Price Loss Coverage (PLC) and Agricultural Risk Coverage at the County Level (ARC-CO) by crop:

**Corn:** Lean to PLC

**Soybeans:** Lean to ARC-CO

**Wheat:** Lean heavily to PLC

ARC-IC whole FSA farm  
All prevent plant or low yields

Supplemental Coverage Option SCO

PLC Yield Updating



# Deadlines

	Decision
<b>March 15, 2020</b>	<ol style="list-style-type: none"><li>1. Make the choice between ARC and PLC for 2019 &amp; 2020 year</li><li>2. Enroll for 2019 program year</li></ol>
<b>June 30, 2020</b>	Enrolling for 2020 program year
<b>September 30, 2020</b>	Deadline for updating farm PLC yields for 2020 and future program years (Can do this <u>now</u> )
<b>March 15, 2021</b>	Enroll and change ARC/PLC for 2021 year
<b>March 15, 2022</b>	Enroll and change ARC/PLC for 2022 year
<b>March 15, 2023</b>	Enroll and change ARC/PLC for 2023 year

**Spend most of our time today on ARC/PLC choice due March 15**

# ARC/PLC Choice

- On a FSA farm basis, allows a choice between:
  - Price Loss Coverage (PLC)
  - Agricultural Risk Coverage – County Level (ARC-CO)
  - ARC – Individual Coverage (ARC-IC) ← All FSA farm, whole farm guarantee
- Can vary decisions by FSA farm
- Choice will initially be made for 2019 and 2020 **(March 15, 2020)**
- Make a yearly choice after that: 2021, 2022, 2023
- Base acres will not change, PLC and ARC-CO will pay on base acres

On a crop basis on each FSA Farm

← All FSA farm, whole farm guarantee



# PLC

PLC makes payments of

$$.85 \times \left( \text{effective reference price} - \text{higher of MYA price or loan rate} \right) \times \text{PLC yield}$$

(National loan rate: Corn: \$2.20, SB: \$6.20, Wheat: \$3.38)

MYA (market year average) price

- This is a national, cash price
- Sept to August for corn and soybeans
- June to May for wheat

Eligible for Supplemental Coverage Option (SCO) insurance

# Effective Reference Price

## Higher of

- 85% of 5-year Olympic moving average
- Reference price

Reference Prices	
Corn	\$3.70
Soybeans	\$8.40
Wheat	\$5.50

Addition of 85% of 5-year Olympic average not likely come into play  
5-year Olympic average must be **above**

- \$4.35 for corn
- \$9.88 for soybeans
- \$6.47 for wheat



# Corn



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# Following slides show 2019 PLC for corn

- Slides show payment for corn
- Estimated 2019 MYA prices come from WASDE, Jan 2019.  
We will have more updated prices in February
- Slides are from 2018 Farm Bill tool,  
can be downloaded from farmdoc website  
(see FAST section – 2018 Farm Bill What-If Tool)



# Corn

Table 1. Calculation of PLC Payments

**\$3.85 is USDA Jan forecast of 2019 MYA price**

**History suggests a 13% chance that the 2019 MYA will be below \$3.70**



2019 Payment	
<u>Year</u>	<u>Price</u> \$/Bu
2013	4.46
2014	3.70
2015	3.61
2016	3.36
2017	3.36
85% of Olympic average <sup>1</sup>	3.02
Statutory reference price	3.70
Effective reference price <sup>2</sup>	3.70
2019 MYA price	3.85
Loan rate	2.20
Payment rate <sup>3</sup>	0.00
2019 payment per base acre <sup>4</sup>	\$0

2020 Payment	
<u>Year</u>	<u>Price</u> \$/Bu
2014	3.70
2015	3.61
2016	3.36
2017	3.36
2018	3.61
85% of Olympic average <sup>1</sup>	3.00
Statutory reference price	3.70
Effective reference price <sup>2</sup>	3.70
2020 MYA price	3.85
Loan rate	2.20
Payment rate <sup>3</sup>	0.00
2020 payment per base acre <sup>4</sup>	\$0

# Demonstrate ARC/PLC Tool

fd-tools.ncsa.illinois.edu

→

State  
Illinois

County  
Henry

Crop  
Corn

Reference Price  
\$ 3.7

Practice Type \*  
☐ Irrigated ☒ Non-Irrigated

Forecast Model  
Forecast

PLC Payment Yield \*  
160 bushels/acre

ARC Trend Yield \*  
2.23 bushels/acre

ARC/PLC Program Inputs

ARC Coverage Level	86 %
ARC Coverage Range	10 %
Payment Acres	85 %

➤ RUN MODEL



State

Illinois

County

Henry

Crop

Corn

Reference Price

\$ 3.7

Practice Type \*

☐ Irrigated

☒ Non-Irrigated

Forecast Model

Forecast

PLC Payment Yield \*

160

bushels/acre

ARC Trend Yield \*

2.23

bushels/acre

ARC/PLC Program Inputs

ARC Coverage Level

86 %

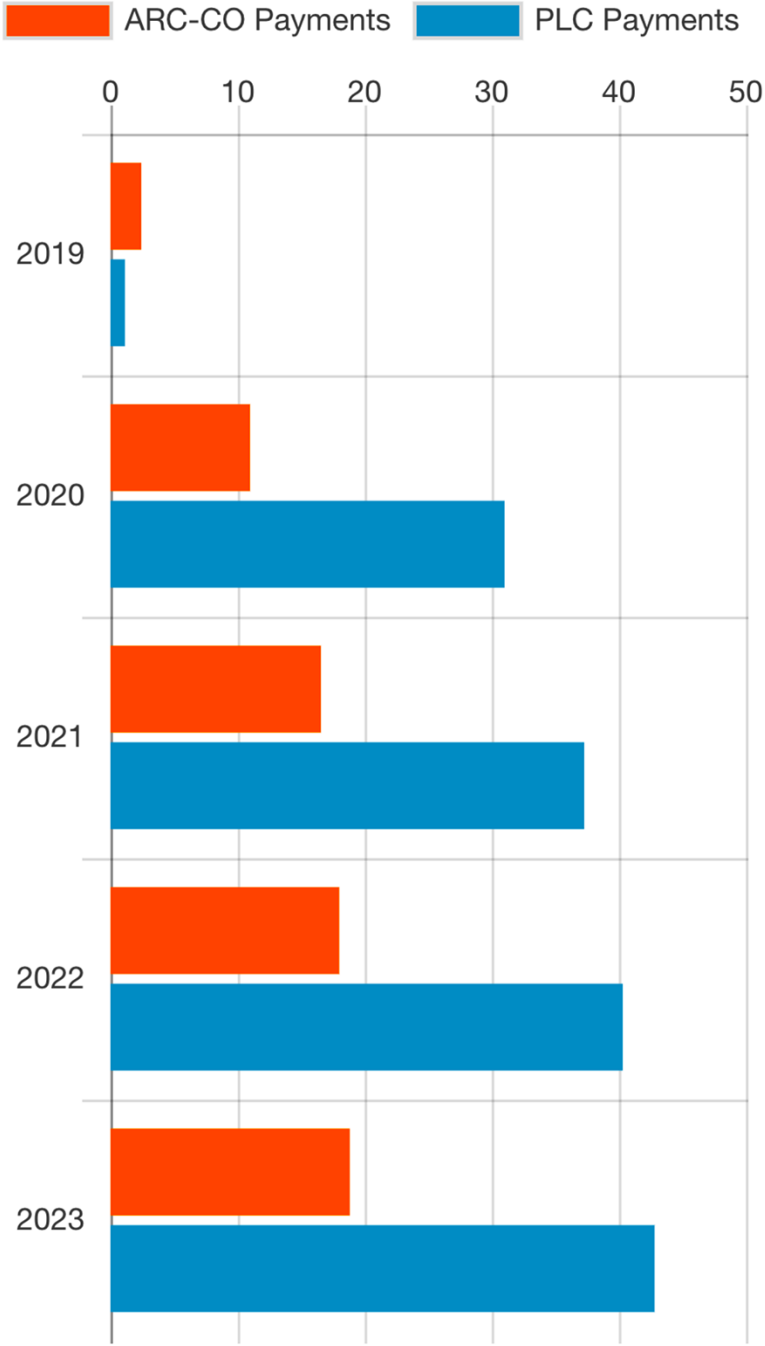
ARC Coverage Range

10 %

Payment Acres

85 %

> RUN MODEL



Expected Payment (\$)	Likelihood of Payment (avg)	Payment Distributions	MYA Price (\$)	Expected Yield (bushel/acre)
\$2.42 \$1.13	7% 13%		\$3.85	208.8
\$10.98 \$31.01	27% 53%		\$3.71	211.0
\$16.56 \$37.28	36% 56%		\$3.65	213.2
\$18.00 \$40.31	35% 58%		\$3.62	217.8
\$18.83 \$42.82	37% 60%		\$3.60	217.7

State

Illinois

County

Henry

Crop

Corn

Reference Price

\$ 3.7

Practice Type \*

☐ Irrigated

☒ Non-Irrigated

Forecast Model

Forecast

PLC Payment Yield \*

160

bushels/acre

ARC Trend Yield \*

2.23

bushels/acre

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ARC Coverage Level

86 %

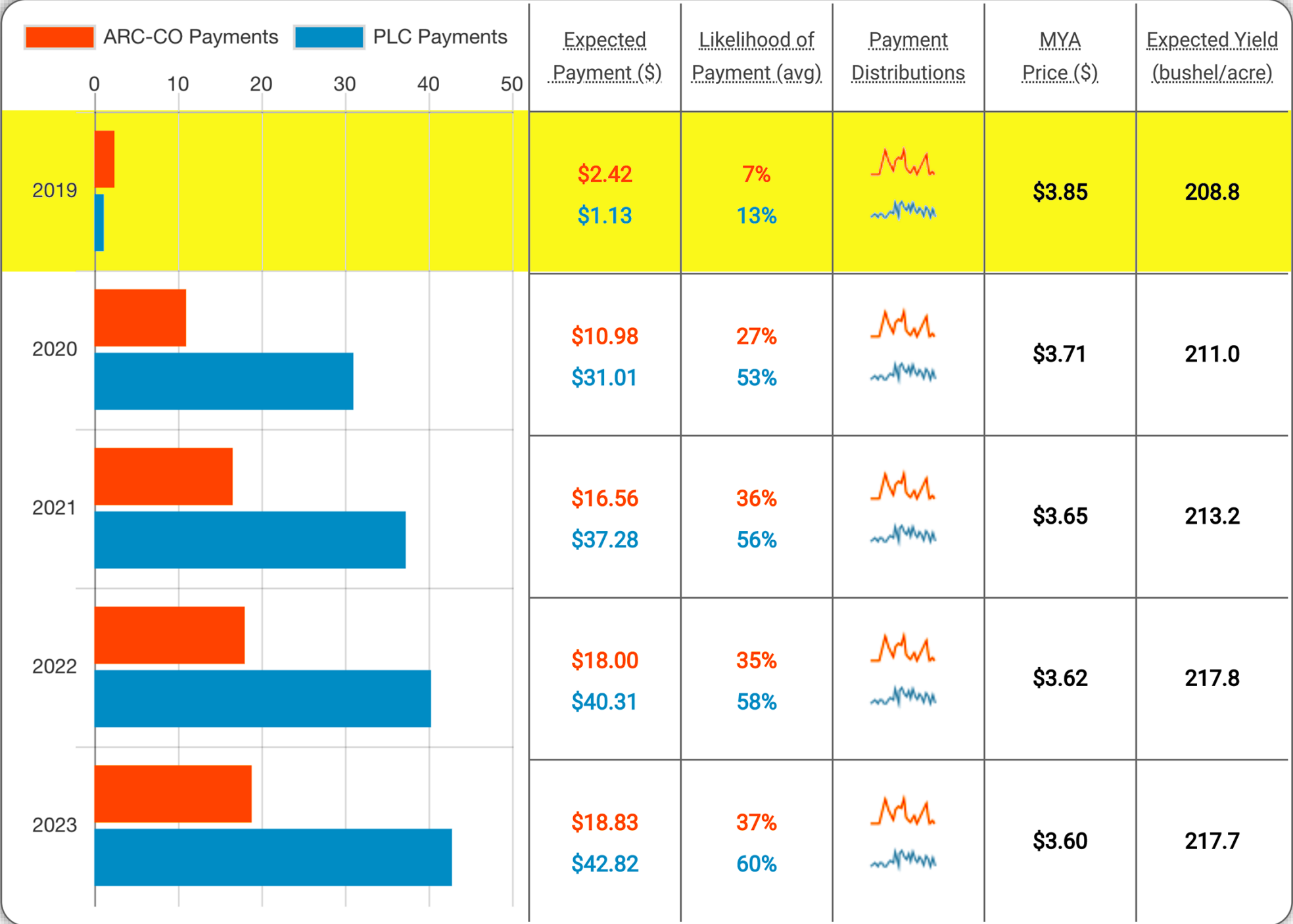
ARC Coverage Range

10 %

Payment Acres

85 %

> RUN MODEL



State

Illinois

County

Henry

Crop

Corn

Reference Price

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PLC Payment Yield \*

160

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2.23

bushels/acre

ARC/PLC Program Inputs

ARC Coverage Level

86 %

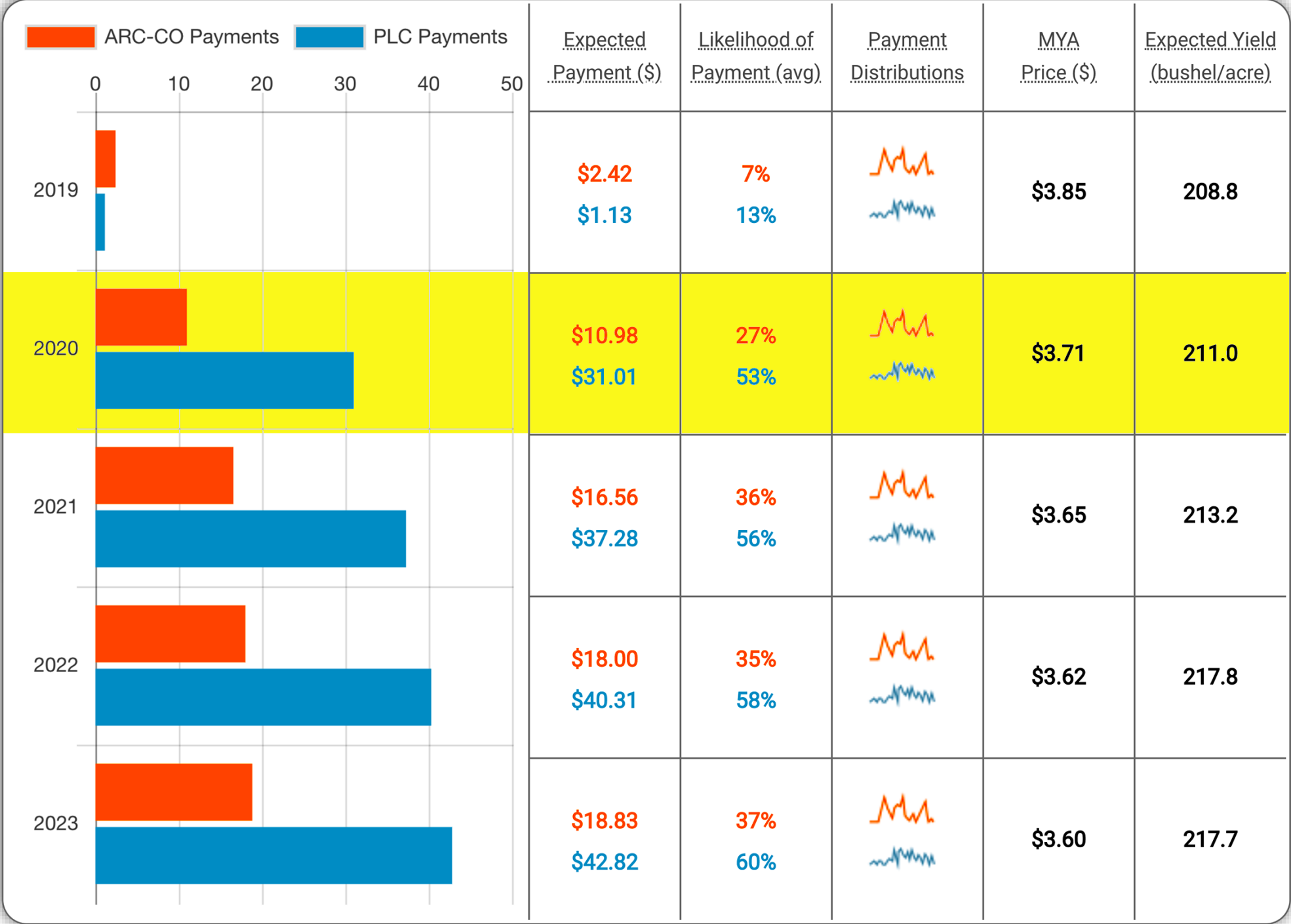
ARC Coverage Range

10 %

Payment Acres

85 %

> RUN MODEL





# ARC-CO Payments

- ARC payments occur when county revenue is below  $.86 \times$  benchmark revenue (benchmark yield  $\times$  benchmark price)
- Not eligible for Supplemental Coverage Option (SCO) insurance
- Give example calculations below
- Both ARC-CO and PLC make payments on base acres in crop which will not change.

# Corn in Henry County, Illinois

## Table 2. Calculation of 2019 Benchmark Yield for ARC-CO

Year	County Yield <sup>1</sup>	80% of T-yield	Higher of Actual or 80% of T-yield <sup>2</sup>	Number of Years to Trend	Trend Yield Adjustment <sup>4</sup>	Trend Adjusted ARC-CO Yield <sup>5</sup>
	Bu/acre	Bu/acre	Bu/acre		Bu/acre	Bu/acre
2013	180.4	138.4	180.4	6	13.4	193.8
2014	194.9	138.4	194.9	5	11.2	206.1
2015	203.7	138.4	203.7	4	8.9	212.6
2016	220.1	138.4	220.1	3	6.7	226.8
2017	233.6	143.2	233.6	2	4.5	238.0
Trend Adjustment <sup>3</sup>			2.23			
2019 Benchmark Yield <sup>7</sup>						215.2



# Corn in Henry County, Illinois

## Table 4. Calculation of Benchmark Prices for ARC-CO

2019 Calculation				2020 Calculation			
Year	Effective			Year	Effective		
	MYA	Reference	Used in		MYA	Reference	Used in
	Price <sup>1</sup>	Price <sup>2</sup>	Benchmark <sup>3</sup>		Price <sup>1</sup>	Price <sup>2</sup>	Benchmark <sup>3</sup>
	\$/Bu	\$/Bu	\$/Bu		\$/Bu	\$/Bu	\$/Bu
2013	4.46	3.70	4.46	2014	3.70	3.70	3.70
2014	3.70	3.70	3.70	2015	3.61	3.70	3.70
2015	3.61	3.70	3.70	2016	3.36	3.70	3.70
2016	3.36	3.70	3.70	2017	3.36	3.70	3.70
2017	3.36	3.70	3.70	2018	3.61	3.70	3.70
2019 Benchmark Price			3.70	2020 Benchmark Price			3.70





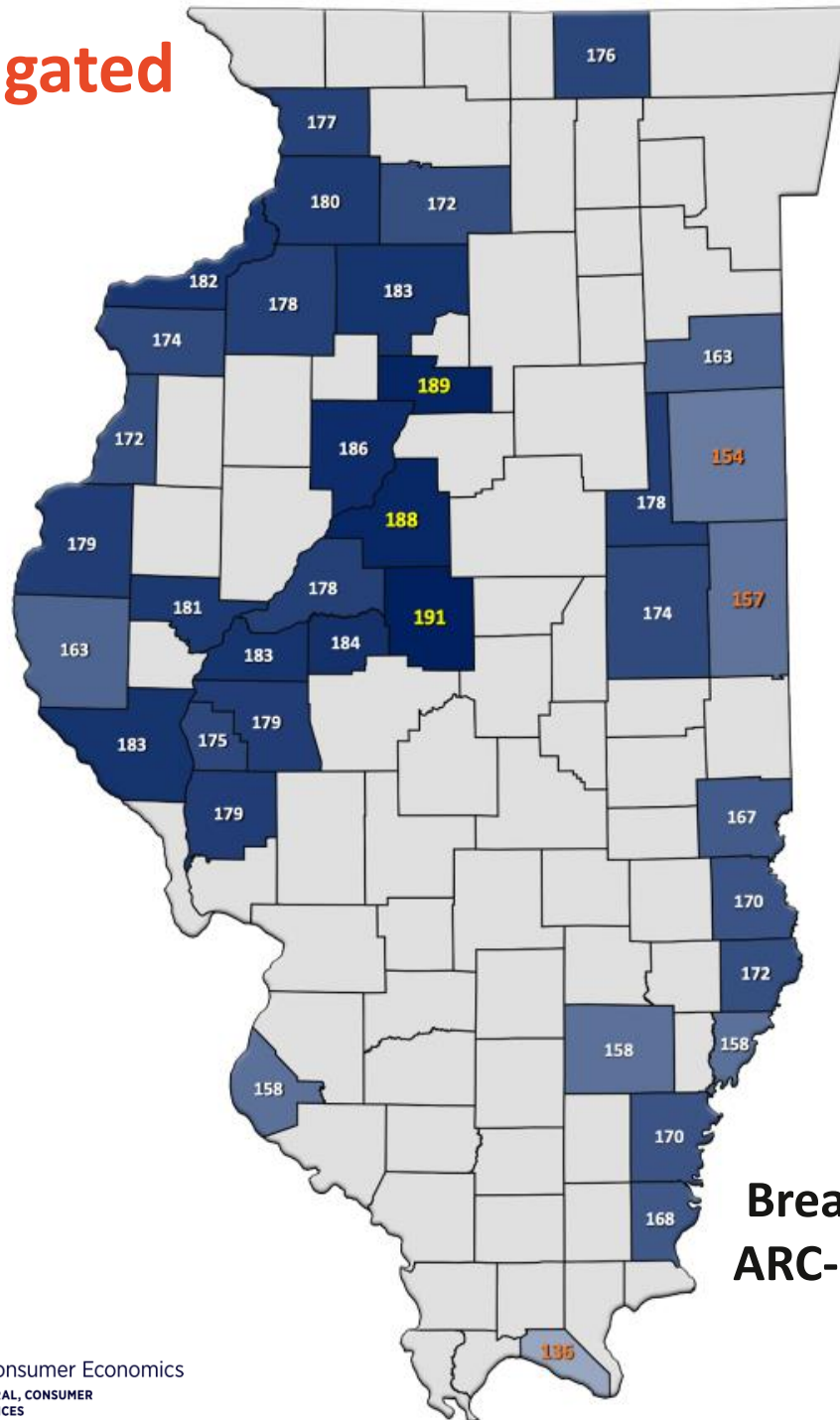
# Corn in Henry County

## Calculation of PLC and ARC-CO Payments

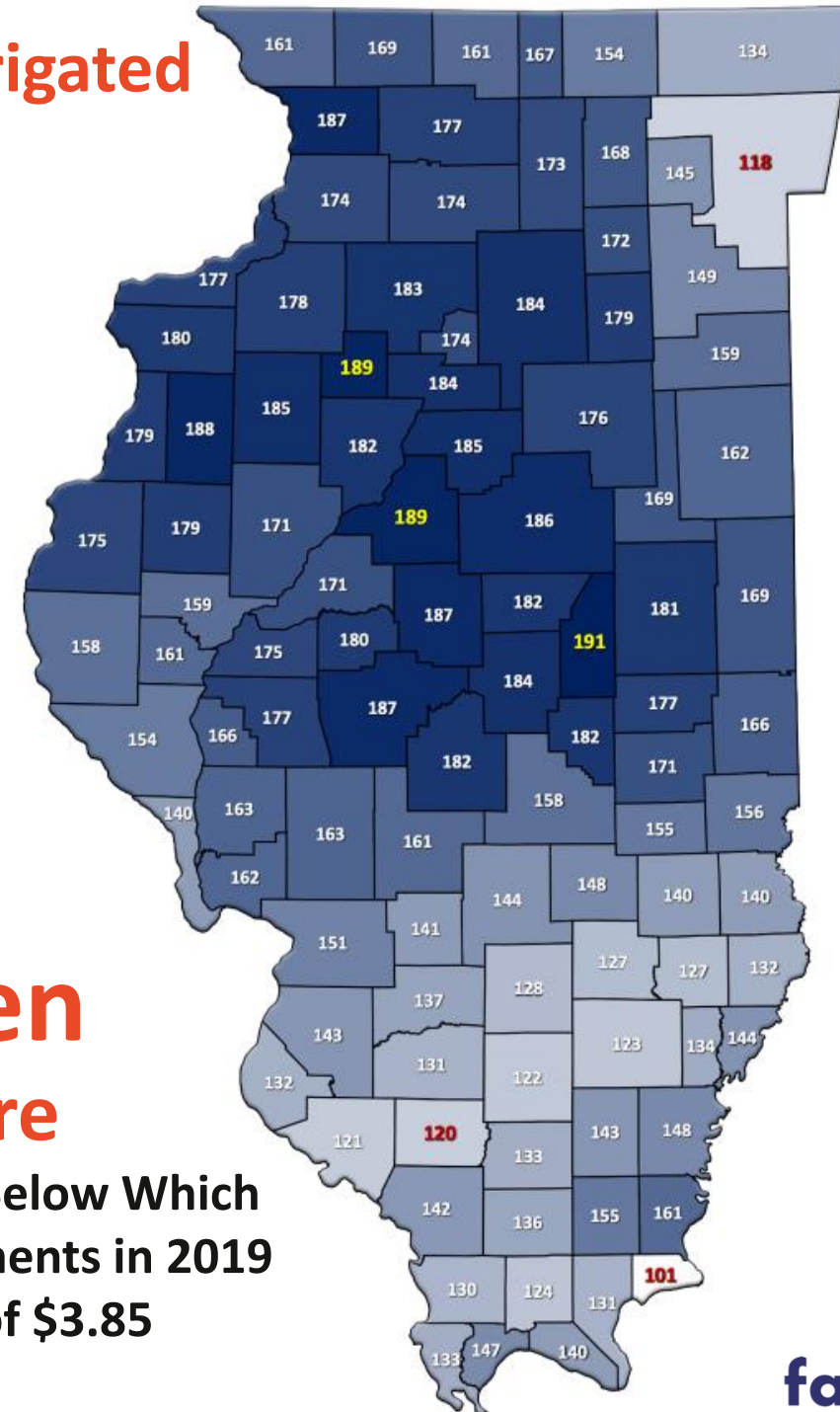
			ARC-CO Calculations				
Year	County	MYA	Payment <sup>3,4</sup>		Benchmark		County 3
	Yield <sup>1</sup>	Price <sup>2</sup>	PLC	ARC-CO	Yield <sup>5</sup>	Price <sup>6</sup>	
	Bu	\$/Bu			Bu	\$/Bu	
2018	224		\$/base acre				
2019	177	3.85	\$0	\$3	215.2	3.70	684.67
2020	218	3.85	\$0	\$0	224.2	3.70	713.28
							681.45
							840.80



Irrigated



Non-Irrigated



191 Bu/Acre



100 Bu/Acre

# Corn Break-even Bushels/acre

Break-Even Corn Yields Below Which  
ARC-CO Will Trigger Payments in 2019  
Given a MYA Price of \$3.85

# Corn: Choosing between PLC and ARC-CO

**2019**

**PLC** not likely to make a payment

**ARC-CO** not likely to make payments in most counties, know more with NASS county yield release on February 20<sup>th</sup>

**2020**

**PLC** 50-50 chance of being below \$3.70 and trigger

**ARC-CO** would trigger with regionally specific low yields

## Lean to PLC

Watch for 2019 yield release on Feb 20<sup>th</sup> and our webinar on Feb 24<sup>th</sup> (Register at [go.illinois.edu/fdWebinar](https://go.illinois.edu/fdWebinar))



# Soybeans

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# Soybeans

Table 1. Calculation of PLC Payments

\$9.00 is USDA Jan forecast of 2019 MYA price

History suggests a 4% chance that the 2019 MYA will be below \$9.00



2019 Payment	
Year	MYA Price \$/Bu
2013	13.00
2014	10.10
2015	8.95
2016	9.47
2017	9.33
85% of Olympic average <sup>1</sup>	8.19
Statutory reference price	8.40
Effective reference price <sup>2</sup>	8.40
2019 MYA price	9.00
Loan rate	6.20
Payment rate <sup>3</sup>	0.00
2019 payment per base acre <sup>4</sup>	\$0

2020 Payment	
Year	MYA Price \$/Bu
2014	10.10
2015	8.95
2016	9.47
2017	9.33
2018	8.48
85% of Olympic average <sup>1</sup>	7.86
Statutory reference price	8.40
Effective reference price <sup>2</sup>	8.40
2020 MYA price	9.00
Loan rate	6.20
Payment rate <sup>3</sup>	0.00
2020 payment per base acre <sup>4</sup>	\$0

# Soybeans in Henry County, Illinois

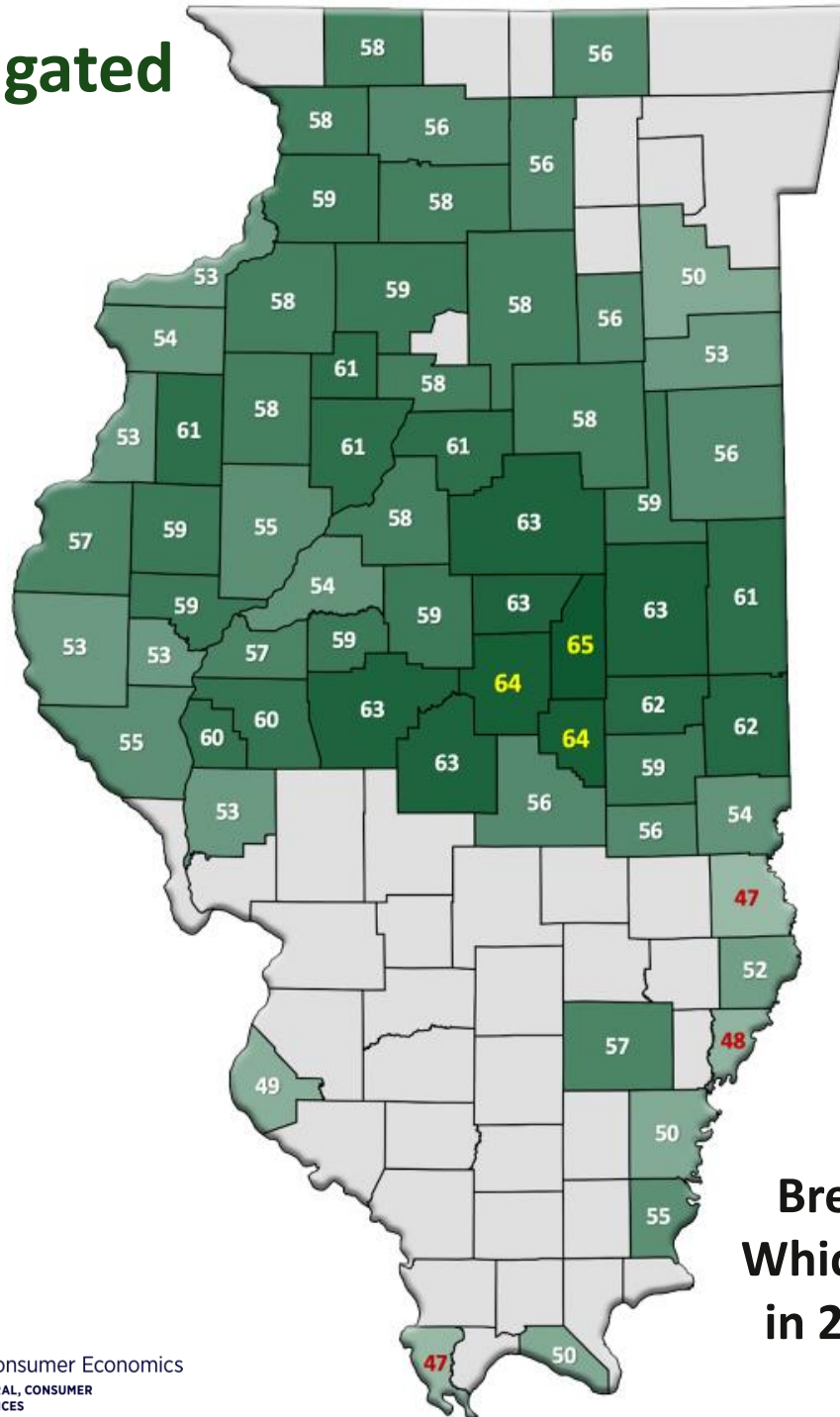
## Calculation of PLC and ARC-CO Payments

Year	County Yield <sup>1</sup>	MYA Price <sup>2</sup>	ARC-CO Calculations				
			Payment <sup>3,4</sup>		Benchmark		County Revenue <sup>8</sup>
			PLC	ARC-CO	Yield <sup>5</sup>	Price <sup>6</sup>	Guarantee <sup>7</sup>
2018	67		\$ / base acre		Bu.	\$/Bu	\$ per base acre
2019	57	9.00	\$0	\$4	62.5	9.63	517.53
2020	63	9.00	\$0	\$0	64.2	9.25	510.63
							565.83

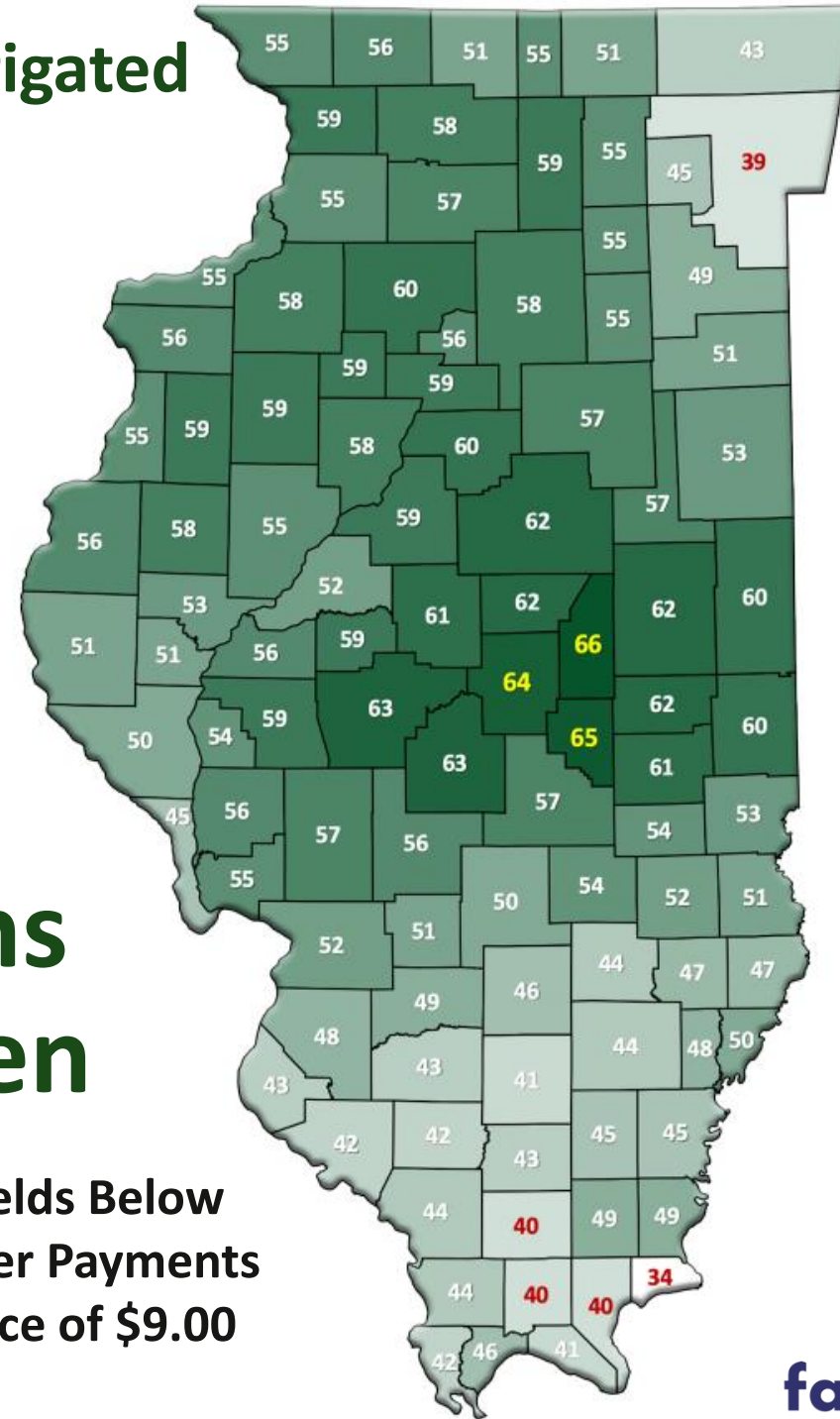




# Irrigated



# Non-Irrigated



66 Bu/Acre

34 Bu/Acre

## Soybeans Break-even

Break-Even Soybean Yields Below  
Which ARC-CO Will Trigger Payments  
in 2019 Given a MYA Price of \$9.00

State

Illinois



County

Henry



Crop

Soybean



Reference Price

\$ 8.4

Practice Type \*



Irrigated



Non-Irrigated



Forecast Model

Forecast



PLC Payment Yield \*

55

bushels/acre



ARC Trend Yield \*

0.49

bushels/acre



## ARC/PLC Program Inputs

ARC Coverage Level	86 %
ARC Coverage Range	10 %
Payment Acres	85 %

➤ RUN MODEL

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## 2018 Farm Bill Online and Spreadsheet Tools

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As an alternative to the executable tool you can [download the spreadsheet here](#).



Download FAST Tool

State

Illinois

County

Champaign

Crop

Corn

Reference Price

\$ 3.7

Forecast Model

Forecast

PLC Payment Yield \*

105

bushels/acre

ARC Trend Yield \*

1.73

bushels/acre

ARC/PLC Program Inputs

ARC Coverage Level

86 %

ARC Coverage Range

10 %

Payment Acres

85 %

➤ RUN MODEL

FAST

2018 Farm Bill What-If Tool

Continue

Updated 1/6/2020

This program calculates Agricultural Risk Coverage for County Coverage (ARC-CO) and Price Loss Coverage (PLC) payments. County yields and market year average (MYA) prices are brought in for a user-specified state-county-crop combination. Users then can change 2018 through 2020 county yields and prices to see ARC-CO and PLC payments under those yields and prices.

For recent updates on this tool and other FAST tools, visit us at [www.farmdoc.uiuc.edu](http://www.farmdoc.uiuc.edu).

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RMA Risk Management Agency

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State

Illinois

County

Henry

Crop

Soybean

Reference Price

\$ 8.4

Practice Type \*

Irrigated

Non-Irrigated

Forecast Model

Forecast

PLC Payment Yield \*

55

bushels/acre

ARC Trend Yield \*

0.49

bushels/acre

ARC/PLC Program Inputs

ARC Coverage Level

86 %

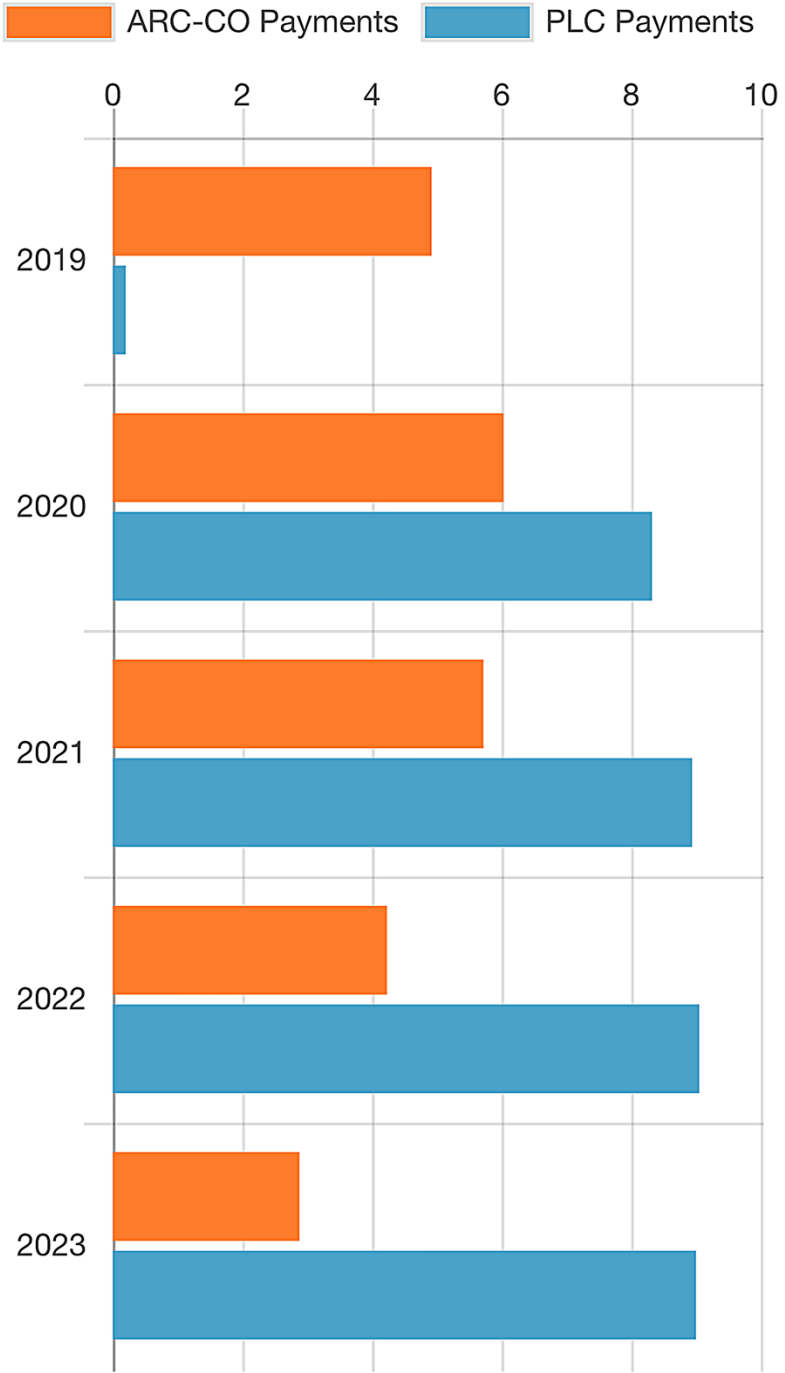
ARC Coverage Range

10 %

Payment Acres

85 %

RUN MODEL



Expected Payment (\$)	Likelihood of Payment (avg)	Payment Distributions	MYA Price (\$)	Expected Yield (bushel/acre)
<div>\$4.92</div> <div>\$0.20</div>	<div>22%</div> <div>4%</div>		\$9.00	60.3
<div>\$6.03</div> <div>\$8.32</div>	<div>25%</div> <div>29%</div>		\$9.00	60.8
<div>\$5.72</div> <div>\$8.94</div>	<div>23%</div> <div>31%</div>		\$9.00	61.3
<div>\$4.23</div> <div>\$9.05</div>	<div>18%</div> <div>31%</div>		\$9.00	62.2
<div>\$2.88</div> <div>\$9.00</div>	<div>14%</div> <div>29%</div>		\$9.00	62.2

State

Illinois

County

Henry

Crop

Soybean

Reference Price

\$ 8.4

Practice Type \*

Irrigated

Non-Irrigated

Forecast Model

Forecast

PLC Payment Yield \*

55

bushels/acre

ARC Trend Yield \*

0.49

bushels/acre

ARC/PLC Program Inputs

ARC Coverage Level

86 %

ARC Coverage Range

10 %

Payment Acres

85 %

RUN MODEL

	ARC-CO Payments	PLC Payments	Expected Payment (\$)	Likelihood of Payment (avg)	Payment Distributions	MYA Price (\$)	Expected Yield (bushel/acre)
2019	<div><div></div></div>	<div><div></div></div>	<div>\$4.92</div> <div>\$0.20</div>	<div>22%</div> <div>4%</div>	<div></div> <div></div>	\$9.00	60.3
2020	<div><div></div></div>	<div><div></div></div>	<div>\$6.03</div> <div>\$8.32</div>	<div>25%</div> <div>29%</div>	<div></div> <div></div>	\$9.00	60.8
2021	<div><div></div></div>	<div><div></div></div>	<div>\$5.72</div> <div>\$8.94</div>	<div>23%</div> <div>31%</div>	<div></div> <div></div>	\$9.00	61.3
2022	<div><div></div></div>	<div><div></div></div>	<div>\$4.23</div> <div>\$9.05</div>	<div>18%</div> <div>31%</div>	<div></div> <div></div>	\$9.00	62.2
2023	<div><div></div></div>	<div><div></div></div>	<div>\$2.88</div> <div>\$9.00</div>	<div>14%</div> <div>29%</div>	<div></div> <div></div>	\$9.00	62.2



# Soybeans: Choosing between PLC and ARC-CO

**2019**

**PLC** not likely to make payments

**ARC-CO** could make payments,  
know more after the Feb 20  
release of NASS yields

**2020**

**PLC** Having a 2020 MYA price  
below \$8.40 would be a very bad  
year, not likely but could happen

**ARC-CO** Need a combination of  
local low yields and non-increasing  
prices to generate payments

**Lean to ARC-CO**

Watch for NASS county yield on Feb 20<sup>th</sup> and our webinar on  
Feb 24<sup>th</sup> (Register at [go.illinois.edu/fdWebinar](https://go.illinois.edu/fdWebinar))



# Wheat

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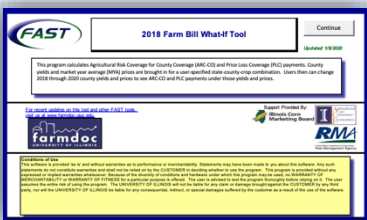
# Wheat

Table 1. Calculation of PLC Payments

State	Illinois
County	Henry
Crop	Wheat
Practice	All
PLC Yield	50

\$4.55 is USDA Jan  
forecast of 2019  
MYA price

History suggests a  
4% chance that the  
2019 MYA will be  
below \$9.00



## 2019 Payment

<u>Year</u>	<u>Price</u> \$/Bu
2013	6.87
2014	5.99
2015	4.89
2016	3.89
2017	4.72

85% of Olympic average <sup>1</sup>	4.42
Statutory reference price	5.50
Effective reference price <sup>2</sup>	5.50

2019 MYA price	4.55
Loan rate	3.38
Payment rate <sup>3</sup>	0.95

2019 payment per base acre<sup>4</sup> \$40

## 2020 Payment

<u>Year</u>	<u>Price</u> \$/Bu
2014	5.99
2015	4.89
2016	3.89
2017	4.72
2018	5.16

85% of Olympic average <sup>1</sup>	4.18
Statutory reference price	5.50
Effective reference price <sup>2</sup>	5.50

2020 MYA price	4.55
Loan rate	3.38
Payment rate <sup>3</sup>	0.95

2020 payment per base acre<sup>4</sup> \$40

State

Illinois



County

Henry



Crop

Wheat



Reference Price

\$ 5.5

Forecast Model

Forecast



PLC Payment Yield \*

50

bushels/acre



ARC Trend Yield \*

0.62

bushels/acre



## ARC/PLC Program Inputs

ARC Coverage Level 86 %

ARC Coverage Range 10 %

Payment Acres 85 %

➤ RUN MODEL



## DECISION OUTREACH CENTRAL

## 2018 Farm Bill Toolbox

## 2018 Farm Bill Online and Spreadsheet Tools

## Gardner Program Payment Calculator (ARC/PLC)

The Gardner Payment Calculator provides estimates of expected payments and likelihood of payments for ARC-CO and PLC. Payment estimates are provided for the program years from 2019 to 2023. Users can select the state, county, and crop combination that they wish to consider.

If you are having trouble registering please [view the faq](#) or watch the video below.



Go to Payment Calculator

## 2018 Farm Bill What if Tool

This program calculates Agricultural Risk Coverage for County Coverage (ARC-CO), Price Loss Coverage (PLC) payments, and ARC at the Individual Level (ARC-IC). County yields and market year average (MYA) prices are brought in for a user-specified state-county-crop combination. Users then can change 2018 through 2020 county yields and prices to see ARC-CO and PLC payments under those yields and prices.

As an alternative to the executable tool you can [download the spreadsheet here](#).



Download FAST Tool

State

Illinois

County

Champaign

Crop

Corn

Reference Price

\$ 3.7

Forecast Model

Forecast

PLC Payment Yield \*

105

bushels/acre

ARC Trend Yield \*

1.73

bushels/acre

ARC/PLC Program Inputs

ARC Coverage Level 86 %

ARC Coverage Range 10 %

Payment Acres 85 %

➤ RUN MODEL

FAST

2018 Farm Bill What-If Tool

Continue

Updated 1/6/2020

This program calculates Agricultural Risk Coverage for County Coverage (ARC-CO) and Price Loss Coverage (PLC) payments. County yields and market year average (MYA) prices are brought in for a user-specified state-county-crop combination. Users then can change 2018 through 2020 county yields and prices to see ARC-CO and PLC payments under those yields and prices.

For recent updates on this tool and other FAST tools, visit us at [www.farmdoc.uiuc.edu](http://www.farmdoc.uiuc.edu).

Support Provided By

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State

Illinois

County

Henry

Crop

Wheat

Forecast Model

Forecast

PLC Payment Yield \*

50

bushels/acre

ARC Trend Yield \*

0.62

bushels/acre

Reference Price

\$ 5.5

ARC/PLC Program Inputs

ARC Coverage Level86 %

ARC Coverage Range10 %

Payment Acres85 %

> RUN MODEL

<div><div>ARC-CO Payments</div><div>PLC Payments</div></div>		Expected Payment (\$)	Likelihood of Payment (avg)	Payment Distributions	MYA Price (\$)	Expected Yield (bushel/acre)
2019	<div><div></div><div></div></div>	<div>\$11.23</div> <div>\$40.38</div>	<div>52%</div> <div>100%</div>	<div></div> <div></div>	\$4.55	70.3
2020	<div><div></div><div></div></div>	<div>\$10.96</div> <div>\$30.33</div>	<div>45%</div> <div>82%</div>	<div></div> <div></div>	\$4.87	70.9
2021	<div><div></div><div></div></div>	<div>\$13.58</div> <div>\$26.34</div>	<div>49%</div> <div>77%</div>	<div></div> <div></div>	\$5.00	71.5
2022	<div><div></div><div></div></div>	<div>\$14.93</div> <div>\$24.88</div>	<div>53%</div> <div>74%</div>	<div></div> <div></div>	\$5.05	72.1
2023	<div><div></div><div></div></div>	<div>\$12.34</div> <div>\$24.27</div>	<div>45%</div> <div>73%</div>	<div></div> <div></div>	\$5.08	72.7

State

Illinois

County

Henry

Crop

Wheat

Forecast Model

Forecast

Reference Price

\$ 5.5

PLC Payment Yield \*

50

bushels/acre

ARC Trend Yield \*

0.62

bushels/acre

ARC/PLC Program Inputs

ARC Coverage Level86 %

ARC Coverage Range10 %

Payment Acres85 %

> RUN MODEL

	ARC-CO Payments	PLC Payments	Expected Payment (\$)	Likelihood of Payment (avg)	Payment Distributions	MYA Price (\$)	Expected Yield (bushel/acre)
2019	<div><div></div></div>	<div><div></div></div>	<div>\$11.23</div> <div>\$40.38</div>	<div>52%</div> <div>100%</div>	<div></div> <div></div>	\$4.55	70.3
2020	<div><div></div></div>	<div><div></div></div>	<div>\$10.96</div> <div>\$30.33</div>	<div>45%</div> <div>82%</div>	<div></div> <div></div>	\$4.87	70.9
2021	<div><div></div></div>	<div><div></div></div>	<div>\$13.58</div> <div>\$26.34</div>	<div>49%</div> <div>77%</div>	<div></div> <div></div>	\$5.00	71.5
2022	<div><div></div></div>	<div><div></div></div>	<div>\$14.93</div> <div>\$24.88</div>	<div>53%</div> <div>74%</div>	<div></div> <div></div>	\$5.05	72.1
2023	<div><div></div></div>	<div><div></div></div>	<div>\$12.34</div> <div>\$24.27</div>	<div>45%</div> <div>73%</div>	<div></div> <div></div>	\$5.08	72.7

# Wheat in Henry County

## Calculation of PLC and ARC-CO Payments

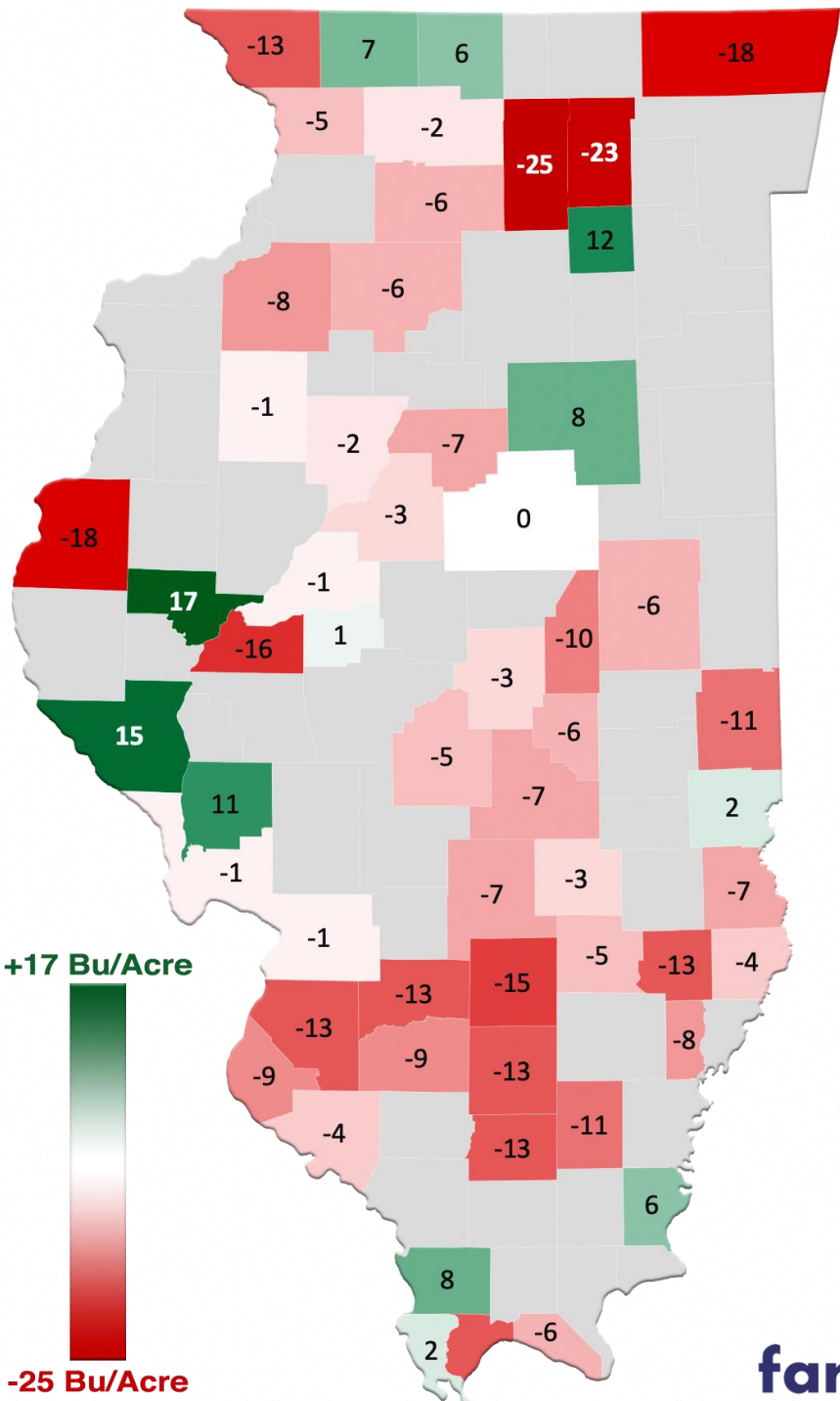
State	Illinois
County	Henry
Crop	Wheat
Practice	All
PLC Yield	50

			ARC-CO Calculations					
Year	County Yield <sup>1</sup>	MYA Price <sup>2</sup>	Payment <sup>3,4</sup>		Benchmark		County Revenue <sup>8</sup>	
			PLC	ARC-CO	Yield <sup>5</sup>	Price <sup>6</sup>		Guarantee <sup>7</sup>
2018	61		\$ /base acre		Bu.	\$/Bu	\$ per base acre	
2019	60	4.55	\$40	\$32	67.1	5.66	326.62	273.00
2020	60	4.55	\$40	\$31	67.4	5.50	318.57	273.77



# Wheat

	Break even	NASS Yield	Difference
Schuyler	48	65	17
Pike	67	82	15
Kendall	66	78	12
Greene	64	75	11
Union	61	69	8
Cass	70	54	-16
Hancock	65	47	-18
Lake	65	47	-18
Kane	80	57	-23
DeKalb	82	57	-25





# Wheat: Choosing between PLC and ARC-CO

**2019**

**PLC** will make large payments, depend on PLC yield

**ARC-CO** will make payments in many counties, but likely **less than PLC** given “normal” PLC yields for FSA farms.

**2020**

**PLC** Has a very good chance of payments

**ARC-CO** SO does ARC-CO but likely pay **less than PLC**

**Lean to PLC**

Watch for NASS county yield on Feb 20<sup>th</sup> and our webinar on Feb 24<sup>th</sup> (Register at [go.illinois.edu/fdWebinar](https://go.illinois.edu/fdWebinar))

# ARC-CO



## 2018 Farm Bill What-If Tool

Continue

Updated 1/6/2020

This program calculates Agricultural Risk Coverage for County Coverage (ARC-CO) and Price Loss Coverage (PLC) payments. County yields and market year average (MYA) prices are brought in for a user-specified state-county-crop combination. Users then can change 2018 through 2020 county yields and prices to see ARC-CO and PLC payments under those yields and prices.

For recent updates on this tool and other FAST tools, visit us at [www.farmdoc.uiuc.edu](http://www.farmdoc.uiuc.edu).



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[farmdoc.illinois.edu/2018-farm-bill](http://farmdoc.illinois.edu/2018-farm-bill)

2019 and 2020 ARC-CO PLC WHAT-IF COMPARISON

Input

State	Illinois
County	Hendy
Crop	Wheat
Practice	All
PLC Yield	50

Use Defaults  
Help  
Print  
Menu

FAST

View 2014 Farm Bill Payments

Calculation of PLC and ARC-CO Payments

Year	County Yield <sup>1</sup>	MYA Price <sup>2</sup>	Payment <sup>3,4</sup>		ARC-CO Calculations			County Revenue <sup>8</sup>
			PLC	ARC-CO	Benchmark Yield <sup>5</sup>	Benchmark Price <sup>6</sup>	Guarantee <sup>7</sup>	
2018	61				Bu.	\$/Bu	\$ per base acre	
2019	60	4.55	\$40	\$32	67.1	5.66	326.62	273.00
2020	60	4.55	\$40	\$31	67.4	5.50	318.57	273.77

1 County yields impact ARC-CO payments. 2018 yields enter into 2020 ARC-CO benchmark calculations. The 2018 yield is an estimate.  
2 Market year average (MYA) prices impact both PLC and ARC-CO payments.  
3 PLC payments equal PLC yield x (effective reference price - higher of MYA price or loan rate) x .85. PLC payment calculations are shown in Table 1 below.  
4 Equals .85 x minimum of (ARC guarantee - county revenue) or (10% of benchmark yield x benchmark price), when county revenue is less than ARC guarantee; zero otherwise. Guarantee and revenue calculations are shown in the ARC-CO Calculations box.  
5 Benchmark yield calculations are shown in Table 2 and 3 below.  
6 Benchmark price calculations are shown in Table 4 below.  
7 Guarantee equals .85 x benchmark yield x benchmark price.  
8 County revenue equals county yield x MYA price.

For estimates of expected values of ARC-CO and PLC payments see the Gardner Program Payment Calculator at:  
<https://f3-tools.ncsa.illinois.edu>

Support provided by:

Gardner Agricultural Policy Program

USDA OFFICE OF THE CHIEF ECONOMIST  
United States Department of Agriculture

Table 1. Calculation of PLC Payments

2019 Payment		2020 Payment	
Year	MYA Price	Year	MYA Price
	\$/bu		\$/bu
2013	6.87	2014	5.99
2014	5.99	2015	4.89
2015	4.89	2016	3.89
2016	3.89	2017	4.72
2017	4.72	2018	5.16
85% of Olympic average <sup>1</sup>	4.42	85% of Olympic average <sup>1</sup>	4.18
Statutory reference price	5.50	Statutory reference price	5.50
Effective reference price <sup>2</sup>	5.50	Effective reference price <sup>2</sup>	5.50
2019 MYA price	4.55	2020 MYA price	4.55
Loan rate	3.38	Loan rate	3.38
Payment rate <sup>3</sup>	0.95	Payment rate <sup>3</sup>	0.95
2019 payment per base acre <sup>4</sup>	\$40	2020 payment per base acre <sup>4</sup>	\$40

1 Olympic average eliminates the high and low prices and averages the remaining three historical prices. Olympic average calculations are lagged by one year (e.g., the 2019 average does not include the 2018 price, but prices from 2013 to 2017).  
2 The higher of 85% of the Olympic average or the statutory reference price, capped at 1.15 times the statutory reference price.  
3 Effective reference price minus the higher of the MYA price or loan rate when MYA price is below the effective reference price.  
4 Equals .85 x PLC yield x payment rate.  
For additional information on PLC see the following article on farmdocDaily  
<https://farmdocDaily.illinois.edu/2019/09/24/2019-plc/>

County	80% of	Higher of Actual or 80% of	Number	Trend	Trend	
Year	Yield <sup>1</sup>	T-yield	of Years	Yield	Adjusted	
			to Trend	Adjustment <sup>4</sup>	ARC-CO Yield <sup>5</sup>	
	Bu/acre	Bu/acre		Bu/acre	Bu/acre	
2013	59.1	56.0	59.1	6	3.7	62.8
2014	17.3	56.0	56.0	5	3.1	59.1
2015	46.9	56.0	56.0	4	2.5	58.5
2016	83.6	56.0	83.6	3	1.9	85.5
2017	78.1	56.0	78.1	2	1.2	79.4
	Trend Adjustment <sup>3</sup>	0.62		2019 Benchmark Yield <sup>7</sup>	67.1	

1 Crop yields are from data provided by Risk Management Agency

2 The higher of county yield or 80% of T-yield

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# ARC-IC

- Is a FSA farm by farm choice
- ARC-IC farm equals the sum of a producer's share in all FSA farms enrolled in ARC-IC in a state
- Combines all program crops
- Based on farm yields
- Pays on 65% of base acres rather than 85%
- Will pay maximum payment (10% of benchmark) if all acres on FSA farm are prevent plant
- ARC-IC calculator for one farm in 2018 Farm Bill Tool



# Corn Benchmark Calculation



Yield Calculation						Price Calculation		
Year	Planted	Farm Yield	80% of T-Yield	County Yield	Used Yield <sup>1</sup>	MYA Price	Effective Price	Used Price <sup>2</sup>
Bushel/acre						\$ per Bu		
2013	Yes	230.0	140.8	221.0	230.0	4.46	3.70	4.46
2014	Yes	210.0	140.8	219.6	210.0	3.70	3.70	3.70
2015	Yes	200.0	140.8	190.6	200.0	3.61	3.70	3.70
2016	Yes	245.0	140.8	230.3	245.0	3.36	3.70	3.70
2017	Yes	225.0	150.4	228.9	225.0	3.36	3.70	3.70

Benchmark Revenue Calculation				Effective Reference Price Calculation	MYA	
Year	Used Yield <sup>1</sup>	Used Price <sup>2</sup>	Revenue		Year	Price
2013	230.0	4.46	1025.80		2013	4.46
2014	210.0	3.70	777.00		2014	3.70
2015	200.0	3.70	740.00		2015	3.61
2016	245.0	3.70	906.50		2016	3.36
2017	225.0	3.70	832.50		2017	3.36
			\$ per acre	85% of Olympic Average		3.02
				Statutory Reference Price		3.70
				Effective Reference Price <sup>3</sup>		3.70
<b>Benchmark Revenue<sup>4</sup></b>			<b>838.67</b>			

<sup>1</sup> If the crop is planted, the higher of farm yield or 80% of T-yield. If not planted, the county yield is used. **In the near future, T-yields will be updated.**

<sup>2</sup> The higher of the MYA price or effective reference price.

<sup>3</sup> Higher of 85% of Olympic average or statutory reference price, capped at 1.15 time reference price

<sup>4</sup> Olympic average of five previous revenues.

# Soybeans Benchmark Calculation



Yield Calculation						Price Calculation		
Year	Planted	Farm Yield	80% of T-Yield	County Yield	Used Yield <sup>1</sup>	MYA Price	Effective Price	Used Price <sup>2</sup>
Bushel/acre						\$ per Bu		
2013	Yes	62.0	38.4	59.9	62.0	13.00	8.40	13.00
2014	Yes	70.0	38.4	62.5	70.0	10.10	8.40	10.10
2015	Yes	65.0	38.4	59.3	65.0	8.95	8.40	8.95
2016	Yes	72.0	38.4	64.1	72.0	9.47	8.40	9.47
2017	Yes	65.0	38.4	61.0	65.0	9.33	8.40	9.33

Benchmark Revenue Calculation				Effective Reference Price Calculation	MYA	
Year	Used Yield <sup>1</sup>	Used Price <sup>2</sup>	Revenue		Year	Price
2013	62.0	13.00	806.00		2013	13.00
2014	70.0	10.10	707.00		2014	10.10
2015	65.0	8.95	581.75		2015	8.95
2016	72.0	9.47	681.84		2016	9.47
2017	65.0	9.33	606.45		2017	9.33
			\$ per acre	85% of Olympic Average		8.19
				Statutory Reference Price		8.40
<b>Benchmark Revenue<sup>4</sup></b>			<b>665.10</b>	Effective Reference Price <sup>3</sup>		8.40

<sup>1</sup> If the crop is planted, the higher of farm yield or 80% of T-yield. If not planted, the county yield is used. **In the near future, T-yields will be updated.**

<sup>2</sup> The higher of the MYA price or effective reference price.

<sup>3</sup> Higher of 85% of Olympic average or statutory reference price, capped at 1.15 time reference price

<sup>4</sup> Olympic average of five previous revenues.







# ARC-IC general rule

- Consider taking in 2019 if there is a FSA farm with
  - Very low yields
  - All prevent plant
- Remember all FSA farms in a state in ARC-IC are combined.  
Does not seem wise to have all FSA farms in ARC-IC
- Somewhat doubtful if it fits in other situation  
because only pays on 65% of payment rather than  
85% for PLC and ARC-CO

# Summary

- Be aware of deadlines
- Advice:
  - ARC-IC for FSA farms with all prevent plant acres or low yields
  - Corn: PLC or ARC-CO will not make payments in 2019, except for some counties with low yields, think PLC because of \$3.70 reference price
  - Soybeans: More counties with ARC-CO payments, the \$8.40 reference price is low, lean to ARC-CO
  - Wheat: Both will likely make payments, PLC larger in most cases, lean to PLC
- Feb 20<sup>th</sup> NASS will release county yields, More closely know counties were ARC-CO will make payments. Look for our webinar on Feb 24<sup>th</sup>



# 2018 Farm Bill Resources

- **FSA Website**

[https://www.fsa.usda.gov/programs-and-services/arcplc\\_program/](https://www.fsa.usda.gov/programs-and-services/arcplc_program/)

- **Farm Bill Toolbox (Including 2018 Farm Bill What if Tool)**

<https://farmdoc.illinois.edu/2018-farm-bill>

- **Gardner ARC/PLC tool**

<https://fd-tools.ncsa.illinois.edu/>

**farmdocDAILY**

- **FarmdocDaily**

- PLC Description, farmdocDaily, September 24, 2019
- ARC-CO Description, farmdocDaily , September 17, 2019
- Choosing Between ARC-CO and PLC, farmdocDaily, October 1, 2019
- ARC-IC, farmdocDaily, October 29, 2019



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# Supplemental Coverage Option (SCO)





# Supplemental Coverage Option (SCO)

New crop insurance tool authorized in  
2014 & 2018 Farm Bills

- Tied to ARC/PLC election, but administered by RMA, not FSA
- Purchase from crop insurance agents

## Coverage

Between 86%  
and crop insurance  
coverage level selected

## Triggered

Only if **county** losses  
exceed 14%



# Supplemental Coverage Option (SCO)

Is **county based** coverage  
(no multiplier)

- Will operate similarly to  
Ag Risk Protection  
Insurance (ARPI)
- Different band of  
coverage

Available in  
all Illinois Counties:

- Corn
- Soybeans
- Wheat

# Supplemental Coverage Option (SCO) will use Area Risk Protection Insurance (ARPI)



Same “Expected County Yield”



Same base and harvest prices

# SCO: Endorsement to Underlying Crop Insurance Policy

Matches underlying crop insurance coverage  
(Yield or Revenue Protection must be purchased)

	If you purchase		
	Yield Protection (YP)	Revenue Protection (RP)	Revenue Protection with Harvest Price Exclusion (RP-HPE)
SCO Provides County Based	Yield Coverage	Revenue Coverage	Revenue protection that only uses the crop insurance base price



# SCO: Band of Coverage

SCO Coverage level established at 86%

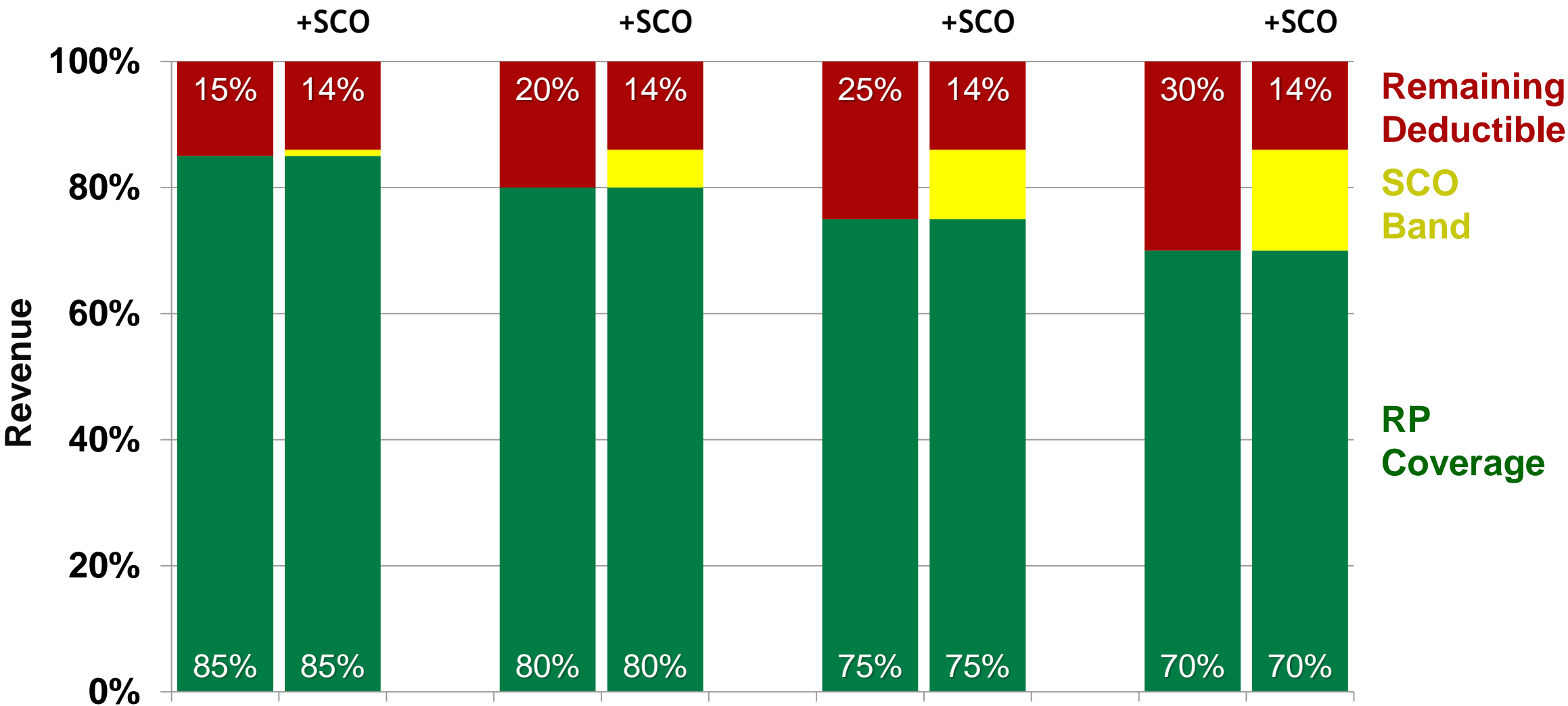
Indemnities triggered when county revenues/yields fall below 86% of guarantee

SCO coverage ends at the coverage level selected by the producer for underlying crop insurance

Band of coverage = 86% down to the coverage level chosen on crop insurance

# SCO & RP at Various Coverage Levels

*\*SCO coverage is area (county) based coverage*



# RP & SCO Example

## Assumptions for RP coverage:

- TA-APH of 190 bpa and  
Base price of \$4.00
- Expected Revenue = \$760  
(190 bpa x \$4.00)
- Coverage level chosen = 80%
- RP Guarantee of \$608  
(190 bpa x \$4.00 x .80)

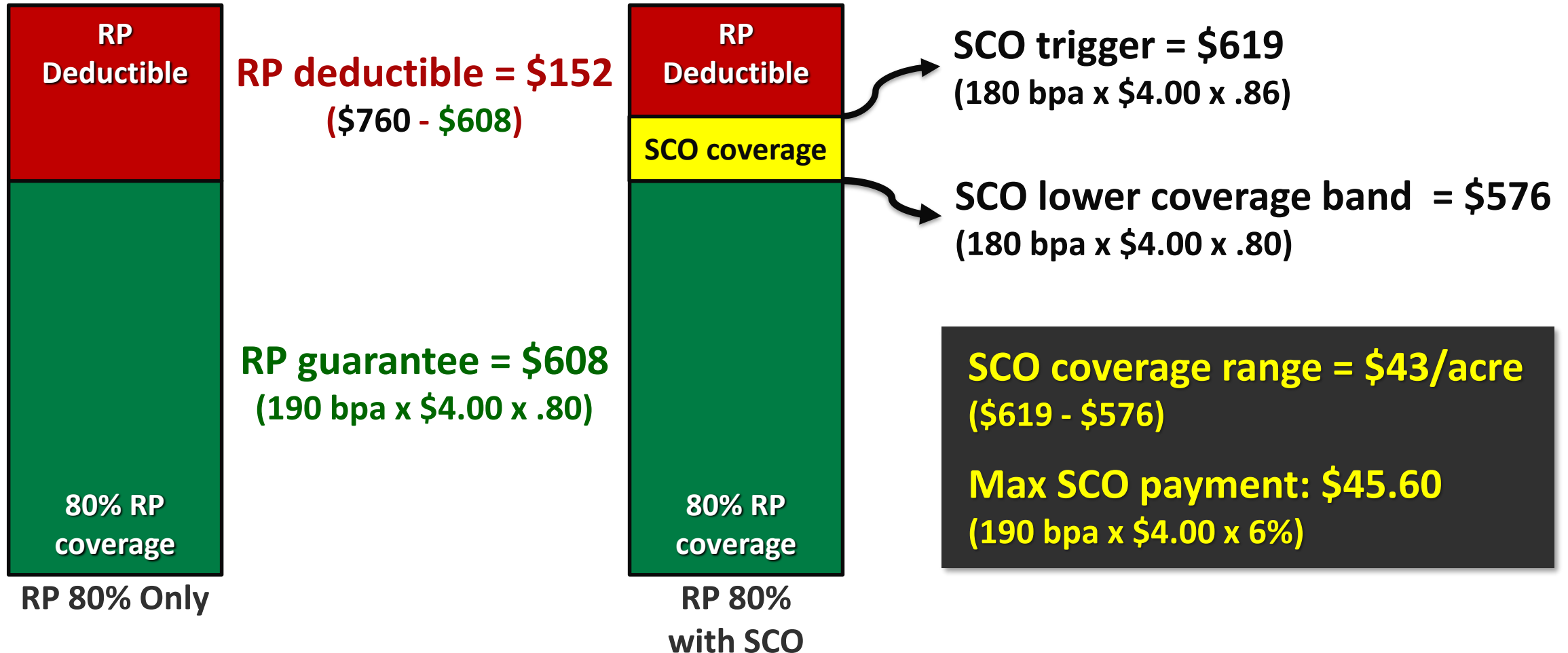
## Assumptions for SCO coverage:

- Expected County Yield = 180 bpa
- Base price of \$4.00
- Expected County Revenue = \$720  
(180 bpa x \$4.00)
- SCO trigger of \$619  
(180 bpa x \$4.00 x .86)



# Example: RP 80% and SCO

Expected Farm Revenue \$760 (190 bpa x \$4.00)



# Example: SCO Claim calculation

## Actual Revenue Calculation:

Harvest price = \$3.00

Final county yield = 200 bpa

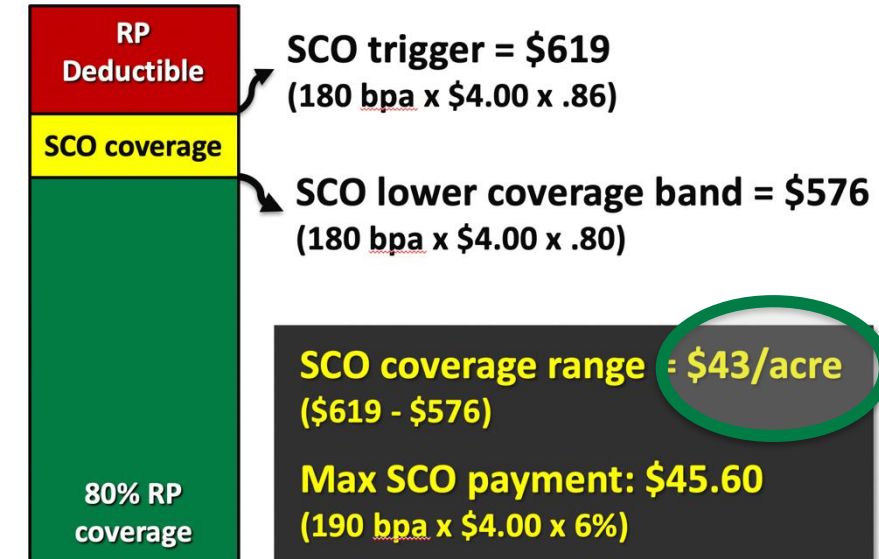
Final county revenue = \$600 (\$3 x 200 bpa)

## Claim Calculation:

\$619 SCO trigger - \$600 final = \$19 shortfall

\$19 = 44% of max coverage range (\$19/\$43)

Claim: \$46 max payment x 44% shortfall = \$20 claim



# Considerations for SCO

65% subsidy level

Provides protection on planted acres as opposed to base (PLC & ARC)

Not subject to payment limits

Not subject to AGI eligibility test

Eliminates ARC as an option

Starting in 2020

if SCO is purchased on a farm that chose ARC;

- SCO will be cancelled

- Customer will still owe 60% of SCO premium (USDA rule)

# Considerations for SCO

County based coverage, not popular in Illinois crop insurance usage

Illinois farmers use high coverage levels, limiting impact of SCO

Since it's county based, SCO won't offer:

- Replant provisions
- Prevent Plant provisions
- Quality loss adjustments (aflatoxin)

SCO has premium cost, ARC does not

**Your agent can  
quote it along with  
your underlying  
crop policy**



# Yield Update for PLC

- Update yields on a crop and farm basis
- Request FSA 156 EZ to get current PLC yields
- Higher of:
  - Current PLC yield, or
  - 2013 to 2017 average x factor

## Factor:

Corn	.8100
Soybeans	.8100
Wheat	.8591

Update if that yield  
is higher

***(My advice: Use crop  
insurance yields)***



## Abbreviated 156 Farm Record

Operator Name :  
Farms Associated with Operator : 19-007-000, 19-007-006, 19-007-007, 19-007-076  
CRP Contract Number(s) : None

## Farm Land Data

Farmland	Cropland	DCP Cropland	WBP	WRP	CRP	GRP	Sugarcane	Farm Status	Number Of Tracts
73.26	62.95	62.95	0.00	0.00	0.00	0.00	0.00	Active	1
State Conservation	Other Conservation	Effective DCP Cropland	Double Cropped		MPL	Acre Election	EWP	DCP Ag. Related Activity	
0.00	0.00	62.95	0.00		0.00	No	0.00	0.00	

## Crop Election Choice

ARC Individual	ARC County	Price Loss Coverage
None	CORN, SOYBN	None

## DCP Crop Data

Crop Name	Base Acres	CCC-505 CRP Reduction Acres	CTAP Yield	PLC Yield	HIP
Corn	26.60	0.00	0	130	
Soybeans	23.80	0.00	0	45	
<b>TOTAL</b>	<b>50.40</b>	<b>0.00</b>			

## NOTES

Tract Number : 161

Description : 07-000-14-00-14  
BIA Unit Range Number :  
HEL Status : HEL determinations not completed for all fields on the tract  
Wetland Status : Tract does not contain a wetland  
WL Violations : None  
Owners :  
Other Producers :

## Tract Land Data

Farm Land	Cropland	DCP Cropland	WBP	WRP	CRP	GRP	Sugarcane
73.26	62.95	62.95	0.00	0.00	0.00	0.00	0.00
State Conservation	Other Conservation	Effective DCP Cropland	Double Cropped	MPL	EWP	DCP Ag. Related Activity	
0.00	0.00	62.95	0.00	0.00	0.00	0.00	

## DCP Crop Data

Notation

State

County

Crop

National Yield Factor<sup>1</sup>

Substitute Yield<sup>2</sup>

Example FSA Farm

Illinois

Woodford

Corn

0.9000

162.3

Menu

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Current PLC Yield

Current yield<sup>3</sup>

Break-even yield<sup>4</sup>

120

148.15

PLC yield. The average of the farm yields must exceed the break-even yield before updating results in a higher PLC yield.

Update PLC Yield

Year	Farm Yield <sup>5</sup>	Substitute Yield <sup>2</sup>	Used Yield <sup>6</sup>
2013	186	162.3	186.00
2014		162.3	
2015	178	162.3	178.00
2016		162.3	
2017	210	162.3	210.00
Reset Yields		2013-2017 Average <sup>7</sup>	191.33
		National Yield Factor <sup>1</sup>	0.9000
		Update Yield <sup>8</sup>	154.98

Result

Updating will result in a higher PLC yield.

# Upcoming Webinar

Monday February 24<sup>th</sup> at 11am CT

## Impact of Updated Yield and Price Information on ARC/PLC Decisions

NASS will release 2019 county yields for corn and soybeans on Feb 20th. These county yields, along with more up-to-date price information, will be used to refine ARC/PLC decisions for 2019 and 2020. Those counties that likely will make county yields will be identified. Farmers in some counties may wish to revise ARC/PLC choices based on this information.

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### Impact of Updated Yield and Price Information on ARC/PLC Decisions

Mon, Feb 24, 2020 11:00 AM - 12:00 PM CST

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This webinar is sponsored by Illinois Corn Growers Association, Illinois Farm Bureau and COUNTRY Financial.



\*Required field

First Name\*

Last Name\*



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# Thank You for joining us!

## Please submit your questions

**farmdoc**.Illinois.edu/2018-farm-bill

The screenshot shows the farmdoc.Illinois.edu website. The header includes the Illinois logo, "EXTENSION", "farmdocDAILY", and "Farm Policy News". The main navigation bar has "farmdoc" and "DECISION OUTREACH CENTRAL". Below this is the "2018 Farm Bill Toolbox" section. It features two columns of tools: "2018 Farm Bill Online and Spreadsheet Tools" and "2018 Farm Bill What if Tool". The "2018 Farm Bill Online and Spreadsheet Tools" column includes a "Gardner Program Payment Calculator (ARC/PLC)" and a "Go to Payment Calculator" button. The "2018 Farm Bill What if Tool" column includes a "Download FAST Tool" button. The "FAST" tool is a "2018 Farm Bill What-If Tool" that calculates Agricultural Risk Coverage for County Coverage (ARC-CO), Price Loss Coverage (PLC) payments, and ARC at the Individual Level (ARC-IC). It includes a "FAST" logo and a "Continue" button. The "FAST" tool also includes a "FAST" logo and a "Continue" button.

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