WEBINARS

farmdoc ARC/PLC, 2019 Grain Farm Income, and 2020 Cash Rent Update Gary Schnitkey, Jonathan Coppess, and Nick Paulson





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Farm Bill 2018: Commodity Title 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) on 2014 Farm Bill likely made a choice of ARC-CO for corn and soybeans, don't assume this is the correct choice for 2018 Farm Bill choice will initially be made for 2019 and 2020 Make a yearly choice after that: 2021, 2022, 2023

Price Loss Coverage

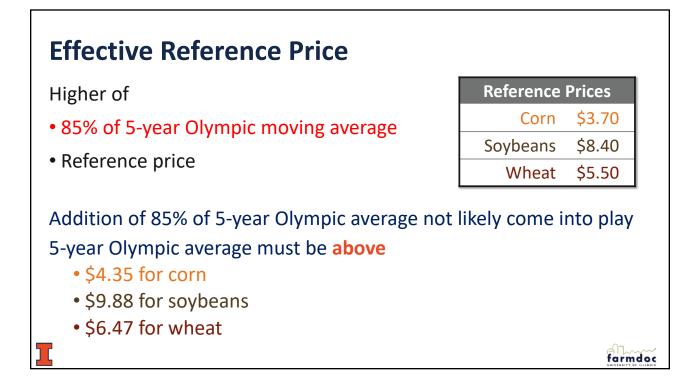
- Makes payments when market year average (MYA) price is below effective reference price
- MYA price is a national average price:
 - September or August for corn and soybeans
 - June to May for wheat

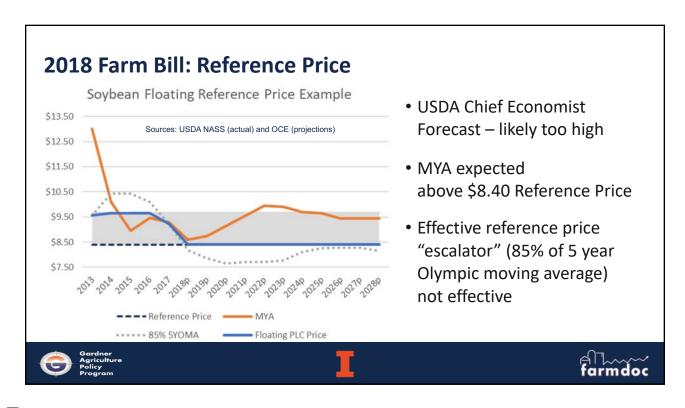


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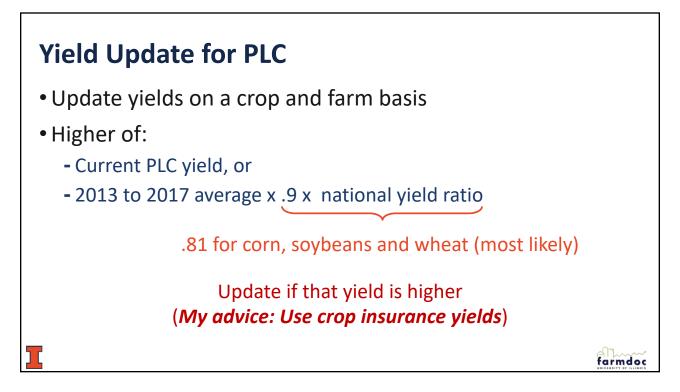


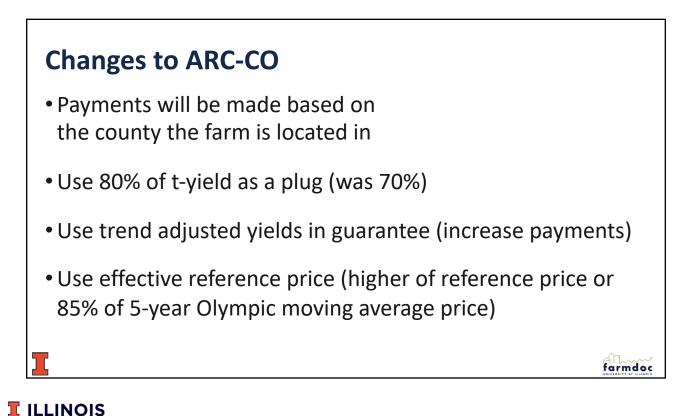
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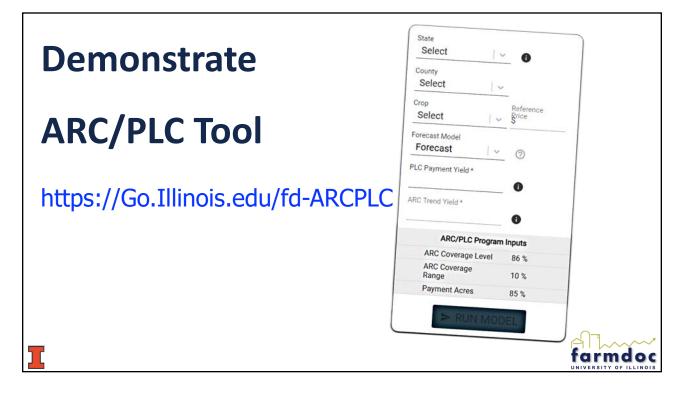












Change the county yields and Market Year Average (MYA) prices for 2018 to see payments under ARC-County and PLC.	
Payments are stated per base acre, as such they are multiplied by .85. If there are 100 base acres per farm, multiple the	
result below by 100.	

Input	County	MYA		tural Risk (hmark	Coverage (ARC)	- County ARC	Price Loss Coverage (PLC)	ARC-CO Corn,
Year	Yield	Price ¹	Yield ²	Price ³	Guarantee ⁴	Payment ⁵	Payment ⁶	-
2009 2010 2011 2012	183 163 177 134	3.55 5.18 6.22 6.89						LASALLE COUNTY
2012	187	4.46				\$/acre	\$/acre	
2014	198	3.70	174	5.29	792	46.74	0	
2015	178	3.61	176	5.29	801	73.75	10	
2016	205	3.36	181	4.79	746	45.00	36	
2017	210	3.36	188	3.95	639	0.00	36	
2018	215	3.50	197	3.70	627	0.00	21	
				Fiv	e-Year Average	33.10	21	
	National lo	oan rate equals:	1.95		Referer	ice price equals:	3.70	
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ARC and PLC payments:

ARC-CO and PLC payments are given on a per base acre basis. Payments are adjusted to account for the fact that payments are made on 85% of base acre.

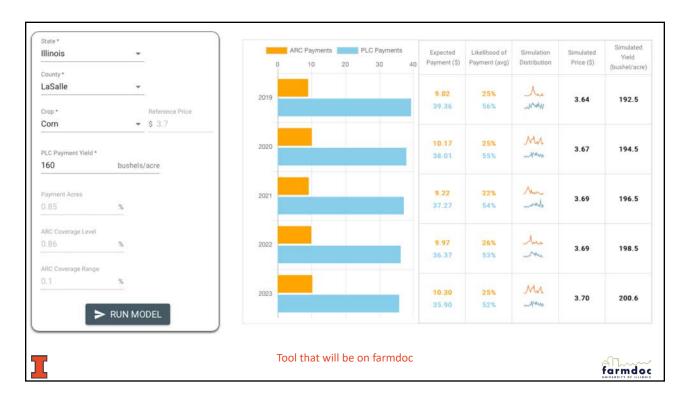
Actual payments are given for 2014 through 2017. Payments are adjusted for a 6.8% sequester.

- ¹ Market year average price which is a national price for a marketing year.
- ² Equals Olympic average of five-previous yields. Olympic averages eliminate high and low observations.
- ³ Equals Olympic average of five-previous prices, price can not be less than reference price.
- ⁴ Equals benchmark yield x benchmark price x .86.

Equals .85 x minimum of (ARC guarantee - county yield x MYA price) or (10% of benchmark yield x benchmark price), when county revenue is less than ARC guarantee, zero otherwise. Reduced by sequester (6.8%).

Equals (reference price - higher of MYA price or national loan rate) x PLC payment yield x .85. Reduced by sequester (6.8%)

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2011

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Change the county yields and Market Year Average (MYA) prices for 2018 to see payments under ARC-County and PLC. Payments are stated per base acre, as such they are multiplied by .85. If there are 100 base acres per farm, multiple the result below by 100.

esult below b	y 100.							2014
Input			Agricu	ltural Risk O	Coverage (ARC)	- County	Price Loss Coverage (PLC)	ARC-CO
	County	MYA		hmark	ARC	ARC		SOYBEANS,
Year	Yield	Price ¹	Yield ²	Price ³	Guarantee ⁴	Payment⁵	Payment ⁶	
2009	46	9.59						LASALLE
2009	40 52	11.30						COUNTY
2011	59	12.50						
2012	49	14.40						
2013	54	13.00				\$/acre	\$/acre	
2014	60	10.10	52	12.27	549	0.00	0	
2015	58	8.95	55	12.27	580	48.54	0	
2016	61	9.47	57	11.87	582	3.33	0	
2017	61	9.33	57	10.86	532	0.00	0	
2018	68	8.60	60	9.63	497	0.00	0	
				Fiv	e-Year Average	10.37	0	
	National lo	oan rate equals:	5.00		Referer	nce price equals:	8.40	
ΙC								farmdoc





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2018 Farm Bill: Loan Rate Update				
2018 Farm Bill Loan Rates				
Loan Commodity	Current Loan Rate	2019 to 2023 Loan Rate	Percentage Increase	
WHEAT (bu.)	\$2.94	\$3.38	114.97%	
CORN (bu.)	\$1.95	\$2.20	112.82%	
GRAIN SORGHUM (bu.)	\$1.95	\$2.20	112.82%	
BARLEY (bu.)	\$1.95	\$2.20	112.82%	
UPLAND COTTON (lb.)	2-year average of world prices (between \$0.45 and \$0.52/lb.)	2-year average of world prices, not less than 98% of previous year (between \$0.45 and \$0.52/lb)		
LONG GRAIN RICE (cwt.)	\$6.50	\$7.00	107.69%	
MEDIUM GRAIN RICE (cwt.)	\$6.50	\$7.00	107.69%	
SOYBEANS (bu.)	\$5.00	\$6.20	124.00%	
PEANUTS (tons)	\$355	\$355	100.00%	
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MYA Prices and Projections for 2019 and 2020

Market Year	Corn	Soybeans	Wheat
2013	4.46	13.00	6.87
2014	3.70	10.10	5.99
2015	3.61	8.95	4.89
2016	3.36	9.47	3.89
2017	3.36	9.33	4.72
2018	3.55	8.66	5.15
2019P	3.60	8.40	5.00
2020P	3.70	8.80	5.00

- Corn prices continues to be below \$4.00
 - My opinion, higher corn prices are the last hope for higher incomes in 2019
- Soybean prices are below \$9.00
 - Trade uncertainty
 - African Swine Fever
 - Large carryout of U.S. stocks

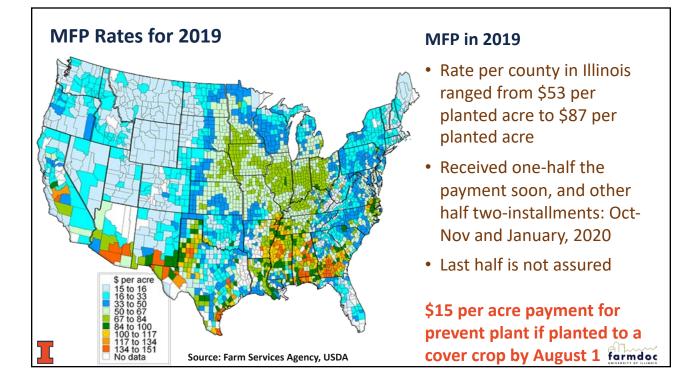
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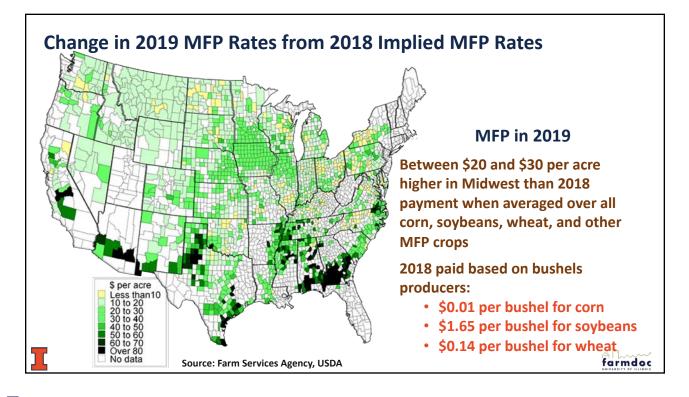
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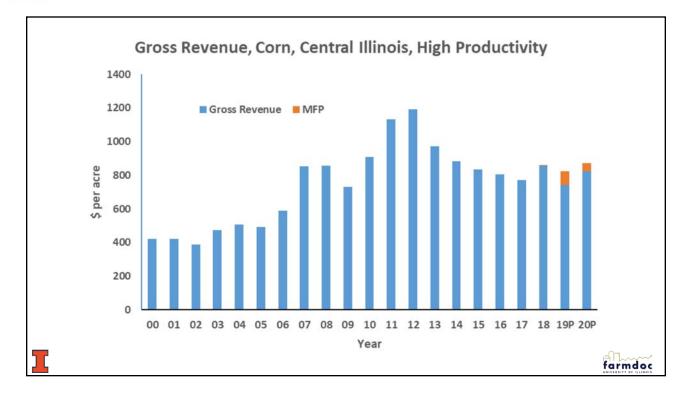
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	Year		
	2018	2019P	2020P
Yield per acre	237	195	211
Price per bu	\$3.60	\$3.70	\$3.90
Crop revenue	\$853	\$722	\$823
ARC/PLC	0	10	0
MFP	1	82	50
Crop insurance proceeds	2	10	0
Gross revenue	\$856	\$824	\$873
Total direct costs	\$373	\$393	\$391
Total power costs	\$128	\$125	\$125
Total overhead costs	\$73	\$74	\$74
Total non-land costs	\$574	\$592	\$590
Operator and land return	\$282	<mark>\$232</mark>	<mark>\$283</mark>
Land costs	274	274	270
Farmer return	\$8	-\$43	\$13

Corn, Central Illinois, High-Productivity

Notes:

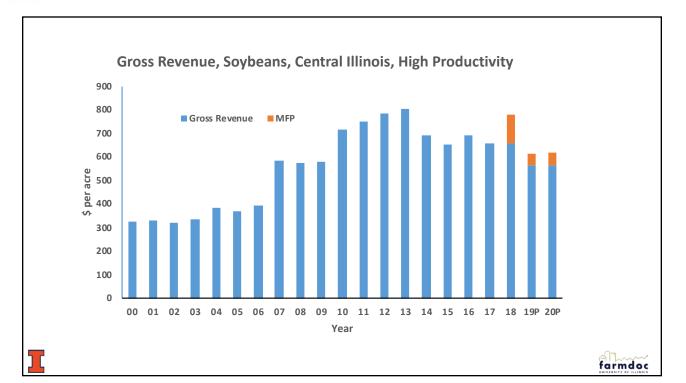
There is an MFP of \$50 for 2020. This has not been announced. It is simply my speculation.

To get 2020 farmer return next year to \$0 at \$3.90 price need:

- MFP or
- 12 bushel higher yields

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			Year	
		2018	2019P	2020P
	Yield per acre	74	55	63
	Price per bu	\$8.85	<mark>\$8.50</mark>	\$9.00
	Crop revenue	\$655	\$468	\$567
	ARC/PLC	0	10	0
	MFP	122	82	50
	Crop insurance proceeds	4	5	0
	Gross revenue	\$781	<mark>\$565</mark>	\$617
	Total non-land costs	\$353	\$355	\$355
	Operator and land return	\$428	<mark>\$210</mark>	\$262
	Land costs	274	274	270
Ι	Farmer return	<mark>\$154</mark>	-\$65	-\$8

Soybeans, Central Illinois, High-Productivity

Notes:

There is an MFP of \$50 for 2020. This has not been announced. It is simply my speculation.

To get 2019farmer return next year to \$0 at \$8.50 price need:

- \$MFP or
- 6 bushel higher yields

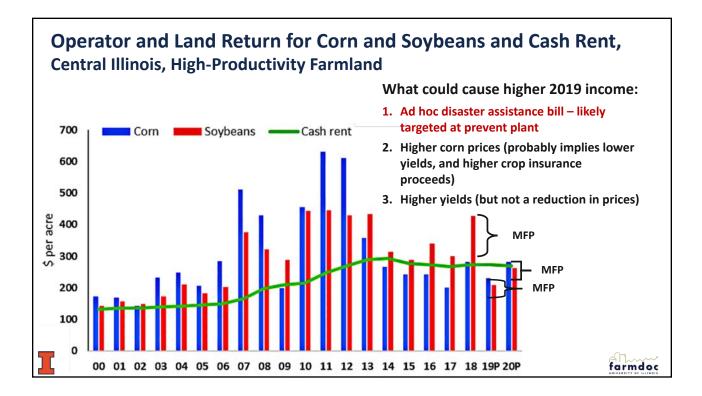
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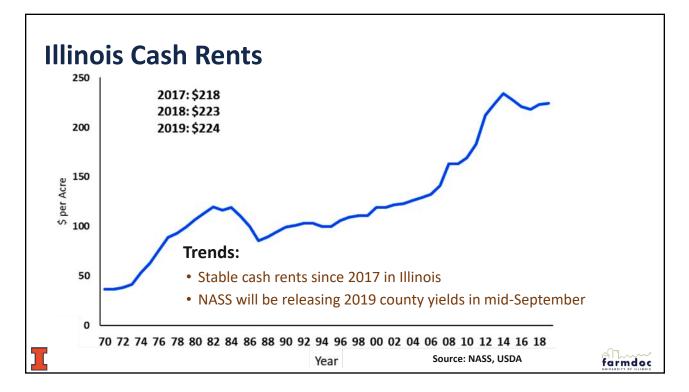
Prevent Plant, Central Illinois, High-P	roductiv	vity	Prevent	Planting	
	Corn	Soybean	Corn	Soybeans	
Yield per acre	195	55			
Harvest Price	\$3.70	\$8.70			
basis	\$0.00	\$0.20			
Cash price per bushel	\$3.70	\$8.50			
Crop revenue	\$722	\$468	0	0	
MFP	82	82	15	15	
ARC/PLC	10	10	10	10	
Crop Insurance proceeds	10	5	0	0	
Prevent planting payment	0	0	410	285 🔶	
Gross revenue	\$824	\$565	\$435	\$310	
Total direct costs	\$393	\$183	\$49	\$49	
Total power costs	\$125	\$104	\$66	\$66	
Total overhead costs	\$74	\$68	\$62	\$62	
Total non-land costs	\$592	\$355	\$177	\$177	
Operator and land return	\$232	\$210	\$258	\$133	
Land costs	274	274	274	274	
Farmer return	-\$43	-\$65	-\$16	-\$141 far	md





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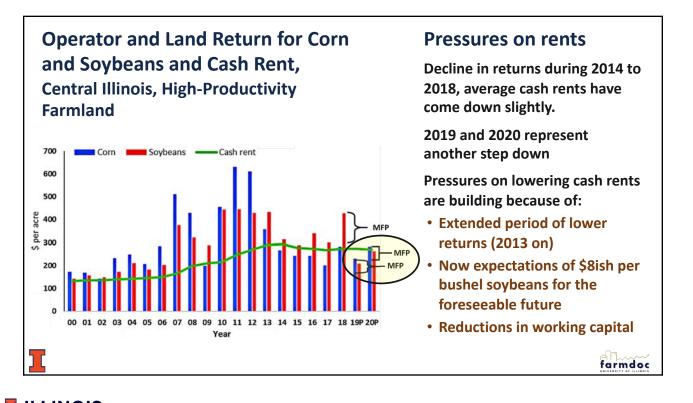




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Illinois Society of Professional Farm Managers and Rural Appraisers indicate very slight decreases in 2010 cash rents

Land Productivity	2019 Rent	Expected 2020 Rent	Values represent rents of the second se
	\$/acre	\$/acre	professionally managed
Excellent	302	298	farmland
Good	261	254	 Agricultural returns
Average	212	205	suggests lower cash ren
Fair	170	167	but cash rents are sticky



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