Price outlook for the 21 covered commodities and risk considerations

Peter Zimmel(<u>zimmelp@missouri.edu</u>)
Food and Agricultural Policy Research Institute (FAPRI)
University of Missouri
www.fapri.missouri.edu

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Agenda

- FAPRI-MU crop market outlook
 - Price projections
 - Farm commodity supply and use that generate those prices
 - Uncertainty around the projections
- Why prices matter in making program choices
- The AFPC-FAPRI tool to evaluate farm bill options



U.S. market price projections FAPRI-MU, October 2014

U.S. crop farm prices

	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19
Corn (\$/bu.)	3.55	5.18	6.22	6.89	4.46	3.40	3.74	3.98	4.19	4.20
Soybeans (\$/bu.)	9.59	11.30	12.50	14.40	13.00	9.95	8.93	9.55	10.26	10.50
Wheat (\$/bu.)	4.87	5.70	7.24	7.77	6.87	5.88	5.39	5.63	5.87	5.97
Durum	5.47	5.98	9.68	8.18	7.46	7.49	6.34	6.63	6.92	7.04
Other spring	5.23	6.49	8.24	8.24	6.73	5.97	5.67	5.92	6.17	6.28
Winter	4.71	5.37	6.81	7.55	6.89	5.80	5.28	5.51	5.73	5.84
Upland cotton (cents/lb.)	62.90	81.50	88.30	72.50	77.90	60.03	58.95	58.21	58.92	60.04
Sorghum (\$/bu.)	3.22	5.02	5.99	6.33	4.28	3.33	3.54	3.71	3.88	3.92
Rice (\$/cwt)	14.40	12.70	14.50	15.10	16.10	14.43	13.56	13.44	13.53	13.69
Long grain	12.90	11.00	13.40	14.50	15.40	12.82	12.48	12.35	12.43	12.56
Medium/short (exc. Japonica)	15.70	15.00	14.30	14.70	15.80	15.02	13.83	13.73	13.84	14.02
Japonica	19.50	20.80	18.40	18.40	18.50	19.97	17.29	17.16	17.30	17.52
Barley (\$/bu.)	4.66	3.86	5.35	6.43	6.06	5.17	4.55	4.69	4.90	4.93
Oats (\$/bu.)	2.02	2.52	3.49	3.89	3.75	3.20	3.03	3.20	3.34	3.34
Peanuts (cents/lb.)	21.70	22.50	31.80	30.10	24.90	20.12	22.87	21.87	22.37	22.42
Sunflower seed (\$/cwt)	15.10	23.30	29.10	25.40	21.60	19.55	18.56	19.01	20.09	20.39
Canola (\$/cwt)	16.20	19.30	24.00	26.50	20.60	17.06	17.11	17.67	19.09	19.27

U.S. market price projections FAPRI-MU, October 2014

U.S. crop farm prices

	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19
Flaxseed (\$/bu.)	8.15	12.20	13.90	13.80	13.80	12.17	11.46	11.88	12.35	12.52
Lentils (\$/cwt)	26.80	25.70	25.00	20.70	19.80	19.44	18.18	18.92	19.74	20.04
Safflower (\$/cwt)	17.10	17.20	24.40	27.50	23.70	21.67	20.25	21.08	22.00	22.33
Mustard seed (\$/cwt)	30.40	25.90	33.60	35.80	36.00	32.25	30.44	31.47	32.60	33.02
Dry peas (\$/cwt)	8.98	9.77	15.30	15.70	14.60	11.08	11.24	11.70	12.20	12.39
Rapeseed (\$/cwt)	26.30	23.40	27.00	26.10	25.60	22.82	21.09	22.05	23.21	23.63
Large chickpeas (\$/cwt)	29.10	30.50	42.10	37.90	31.20	29.35	27.35	28.45	29.63	30.09
Small chickpeas (\$/cwt)	20.30	20.80	21.50	27.40	22.90	19.44	17.94	18.77	19.65	19.99
Crambe (\$/cwt)	36.80	32.80	37.80	36.50	35.80	32.51	30.51	31.61	32.79	33.25
Sesame seed (\$/cwt)	28.00	30.60	35.00	32.00	44.00	44.74	41.90	43.48	45.18	45.83

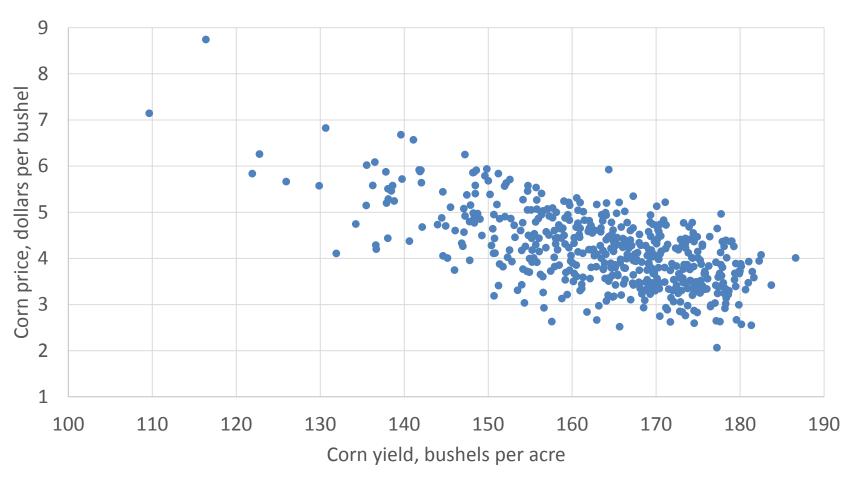
Note: FAPRI-MU prepared these projections in mid-October 2014 based on information available at that time. Macroeconomic and policy assumptions are the same as those underlying the August 2014 baseline update, but the projections incorporate October 2014 USDA estimates of U.S. and global crop supply and use.



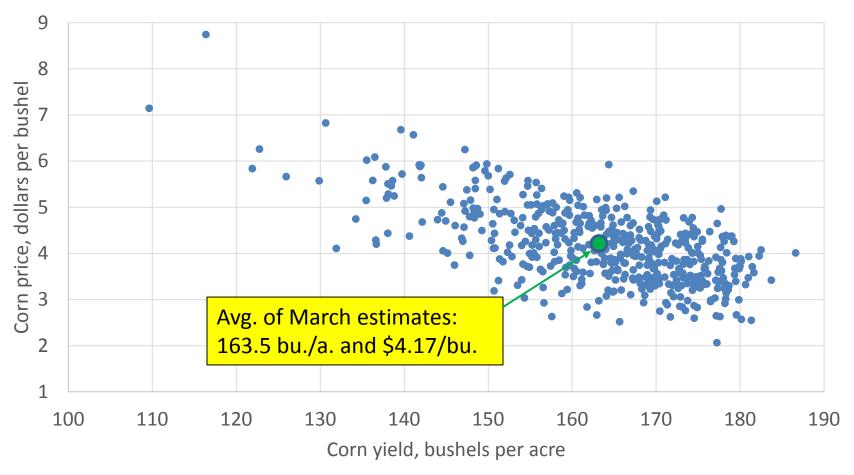
So where did those come from?

- FAPRI-MU has been making market projections for 30 years
 - Complex models of U.S. and world markets + analyst expertise
 - DC review of models and projections each December
 - Annual baseline released in early March
- Updates each month at <u>www.fapri.missouri.edu</u>
 - Reflect new information on crop production, demand, etc.
 - Not as detailed as March baseline, but more current
- We know actual prices will differ
 - For March baseline, we'll generate 500 sets of projections
 - Think of these as averages under "normal" conditions
 - No year is "normal," so actual prices will be higher or lower

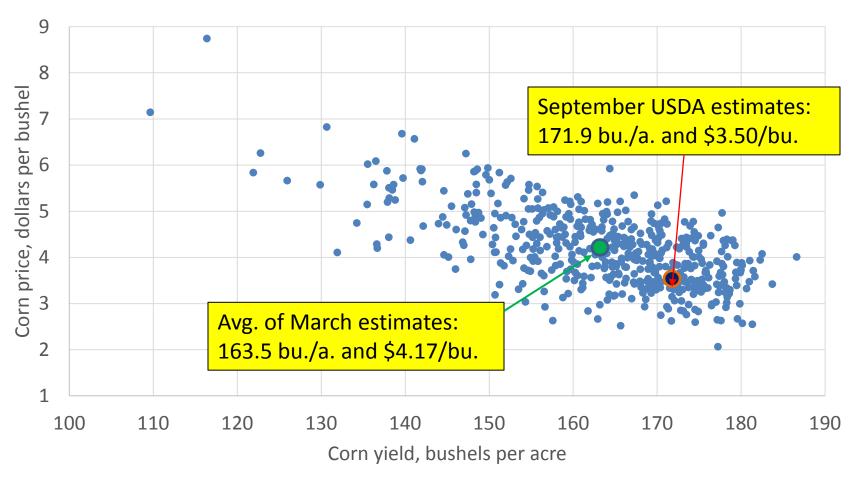




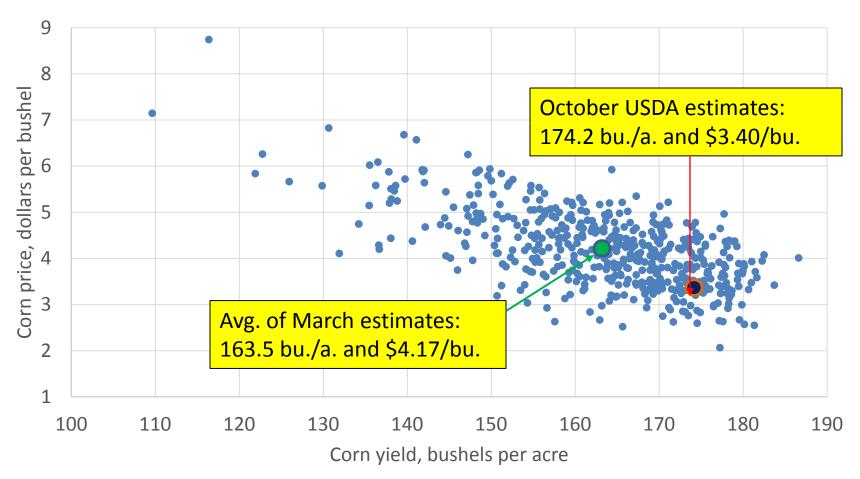








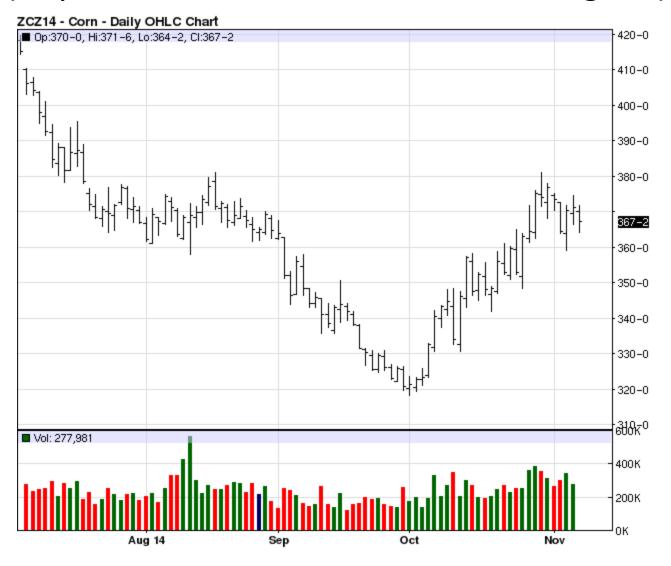






December 2014 corn futures

(July-Nov. 7, 2014, Great Pacific Trading Co.)



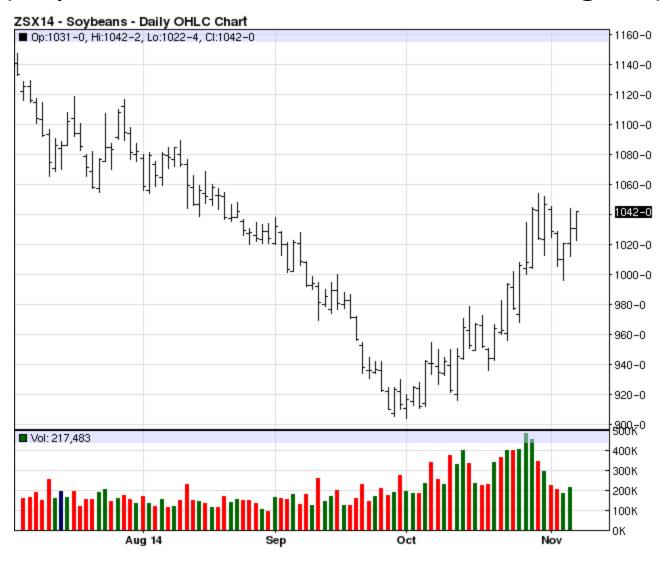


U.S. corn supply and use FAPRI-MU, October 2014

	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19		
			millior	acres				
Area harvested	87.7	83.1	81.3	83.7	83.7	83.9		
			bushels	per acre				
Yield	158.8	174.2	162.7	164.6	166.5	168.1		
			million	bushels				
Production	13,925	14,475	13,235	13,786	13,934	14,106		
Imports	36	25	25	25	25	25		
Beginning stocks	821	1,236	2,030	1,586	1,509	1,475		
Total supply	14,782	15,736	15,290	15,397	15,469	15,606		
Feed use	5,125	5,319	5,172	5,283	5,293	5,291		
Other domestic use	6,504	6,563	6,615	6,620	6,611	6,617		
Exports	1,917	1,823	1,917	1,984	2,089	2,234		
Total use	13,546	13,705	13,704	13,887	13,993	14,142		
Ending stocks	1,236	2,030	1,586	1,509	1,475	1,464		
	dollars per bushel							
Price, U.S. farm	4.46	3.40	3.74	3.98	4.19	4.20		

November 2014 soybean futures

(July-Nov. 7, 2014, Great Pacific Trading Co.)





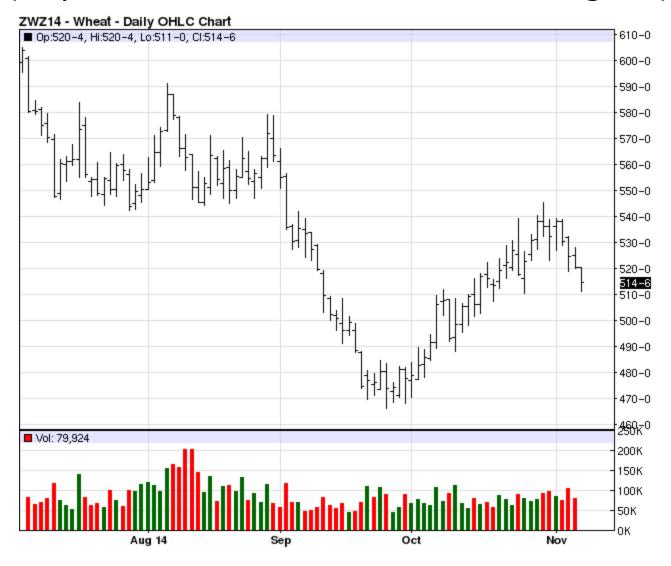
U.S. soybean supply and use FAPRI-MU, October 2014

	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	
			millior	n acres			
Area harvested	76.3	83.4	83.0	80.0	80.9	81.2	
			bushels	per acre			
Yield	44.0	47.1	44.0	44.6	45.0	45.3	
			million	bushels			
Production	3,358	3,927	3,655	3,568	3,639	3,680	
Imports	72	15	15	15	15	15	
Beginning stocks	141	92	422	435	382	374	
Total supply	3,570	4,034	4,092	4,017	4,036	4,070	
Crush	1,734	1,803	1,833	1,821	1,829	1,841	
Other domestic use	98	104	102	103	103	103	
Exports	1,647	1,704	1,722	1,712	1,730	1,757	
Total use	3,478	3,612	3,657	3,635	3,662	3,701	
Ending stocks	92	422	435	382	374	369	
	dollars per bushel						
Price, U.S. farm	13.00	9.95	8.93	9.55	10.26	10.50	
	ratio						
Soybean/corn price ratio	2.91	2.92	2.39	2.40	2.45	2.50	
1							



Dec. 2014 CME wheat futures

(July-Nov. 7, 2014, Great Pacific Trading Co.)





U.S. wheat supply and use FAPRI-MU, October 2014

	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19
			millior	n acres		
Area harvested	45.3	46.5	46.9	46.0	46.0	45.9
			bushels	per acre		
Yield	47.1	43.9	46.2	46.4	46.8	47.1
			million	bushels		
Production	2,135	2,039	2,163	2,134	2,154	2,166
Imports	169	170	165	165	165	165
Beginning stocks	718	590	660	722	714	704
Total supply	3,021	2,798	2,989	3,021	3,033	3,034
Feed use	228	171	186	190	188	188
Other domestic use	1,028	1,040	1,046	1,052	1,058	1,065
Exports	1,176	927	1,036	1,066	1,083	1,084
Total use	2,432	2,138	2,267	2,307	2,329	2,337
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Ending stocks	590	660	722	714	704	697
			dollars pe			
Price, U.S. farm	6.87	5.88	5.39	5.63	5.87	5.97

Dec. 2014 CME cotton futures

(July-Nov. 7, 2014, Great Pacific Trading Co.)





U.S. cotton supply and use FAPRI-MU, October 2014

	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	
			millior	acres			
Area harvested	7.54	9.88	8.69	8.78	8.74	8.72	
			pounds	per acre			
Yield	822	790	819	829	836	843	
			millior	bales			
Production	12.91	16.26	14.83	15.16	15.22	15.31	
Imports	0.01	0.01	0.01	0.01	0.01	0.01	
Beginning stocks	3.80	2.45	4.92	4.90	4.98	5.00	
Total supply	16.72	18.71	19.75	20.06	20.21	20.32	
Domestic use and residual	3.74	3.80	3.93	4.05	4.11	4.12	
Exports	10.53	9.99	10.93	11.04	11.10	11.18	
Total use	14.27	13.79	14.85	15.08	15.20	15.31	
Ending stocks	2.45	4.92	4.90	4.98	5.00	5.02	
	cents per pound						
Price, U.S. farm	77.9	60.0	59.0	58.2	58.9	60.0	

Why prices matter

 Both ARC and PLC depend on U.S. seasonaverage prices

 Lower prices increase payments under both programs, all else equal

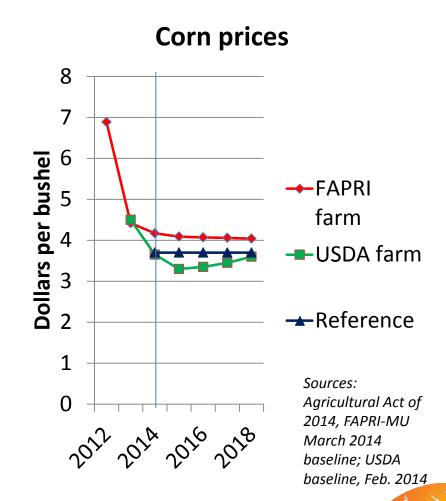
 But actual payments under the two programs can differ—sometimes by a lot



Price-based option for farm support

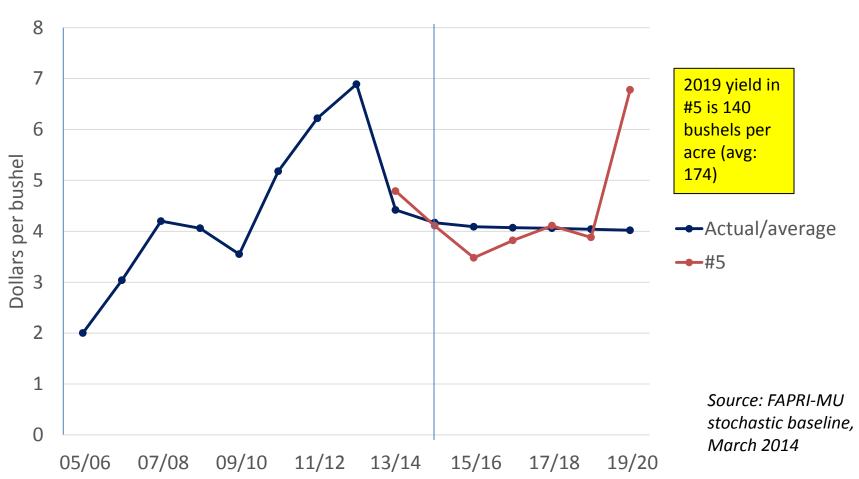
Price Loss Coverage

- Payment if annual average farm price is less than reference price
 - Wheat: \$5.50/bu.
 - Corn: \$3.70/bu.
 - Soybeans: \$8.40/bu.
 - Barley: \$4.95/bu.
 - Oats: \$2.40/bu.
 - Japonica rice: \$16.10/cwt.
- Paid on 85% of base acres (tied to historical plantings)

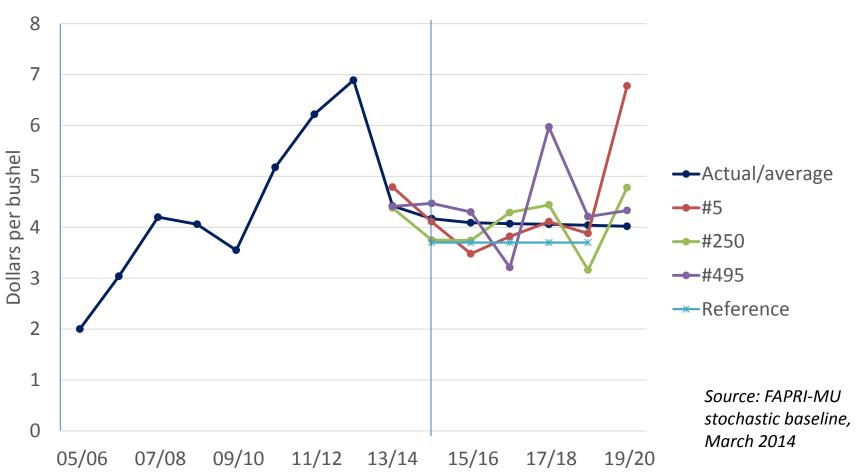




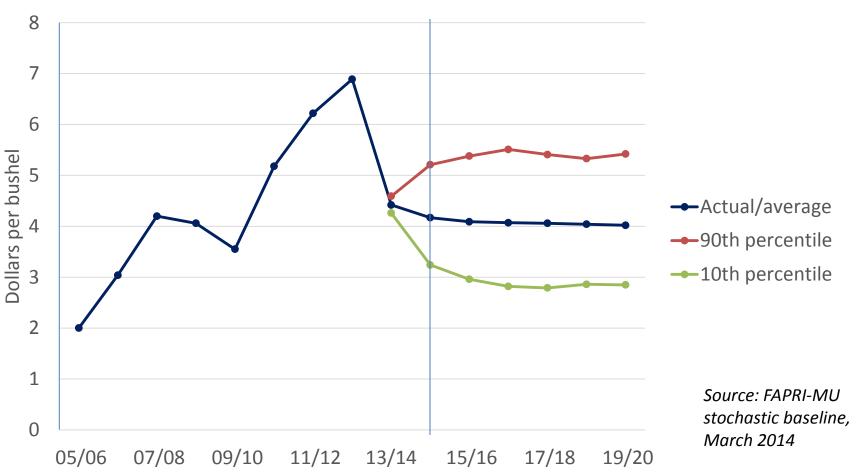
















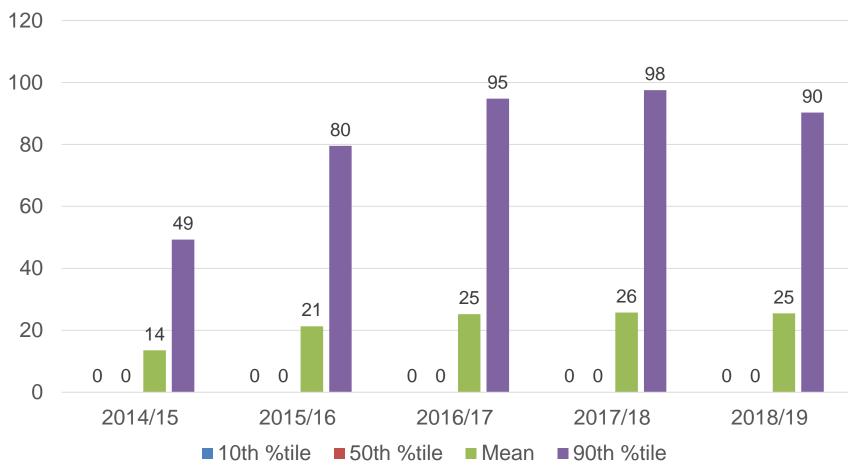


U.S. farm and futures prices for corn



Corn PLC payments

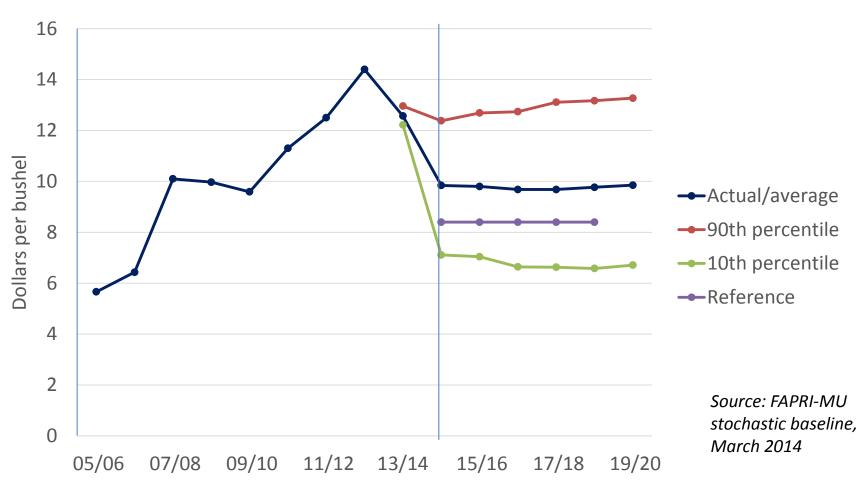
(Dollars per base acre for participating producers)



Source: FAPRI-MU March 2014 stochastic baseline

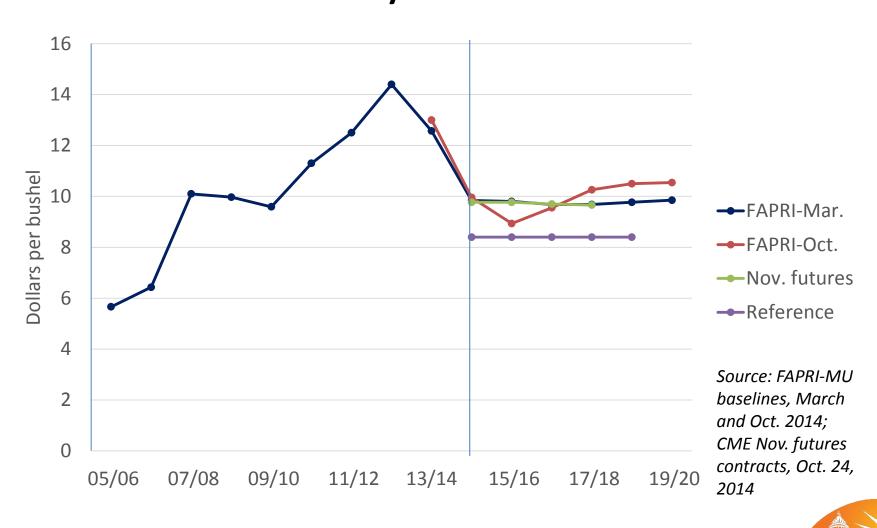


U.S. farm prices for soybeans



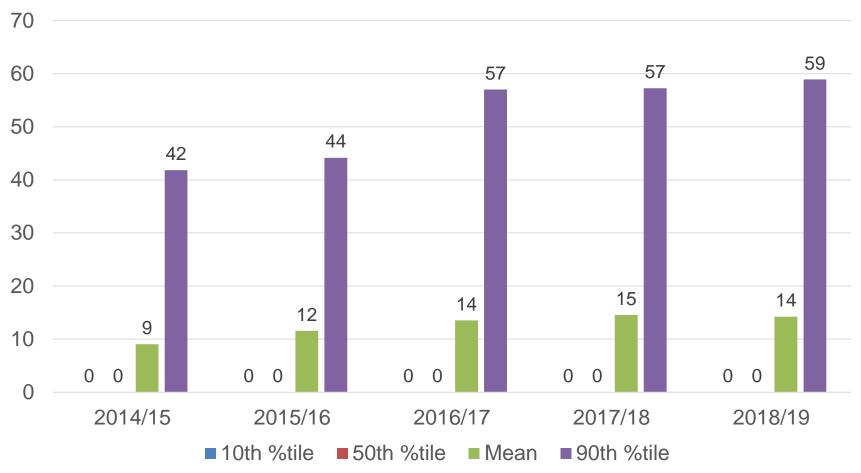


U.S. farm and futures prices for soybeans



Soybean PLC payments

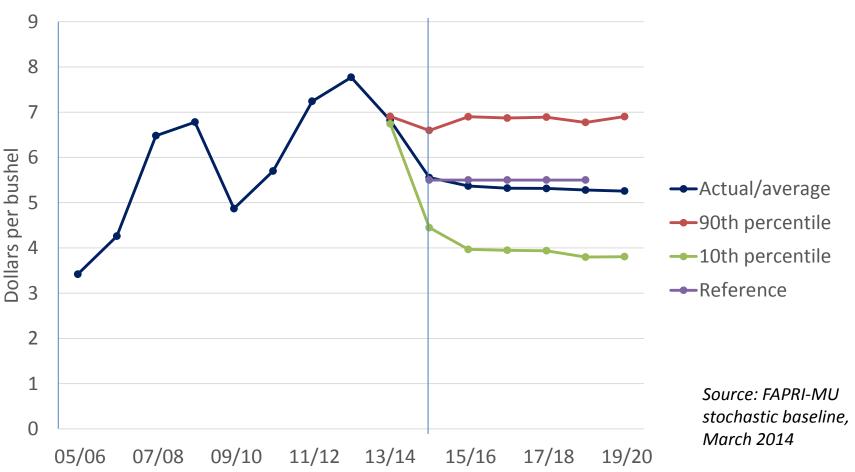
(Dollars per base acre for participating producers)



Source: FAPRI-MU March 2014 stochastic baseline

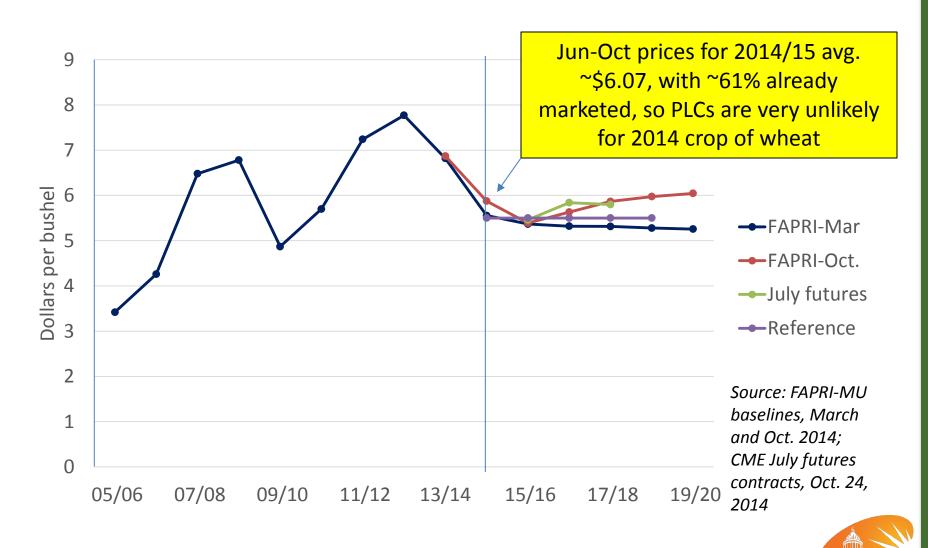


U.S. farm prices for wheat



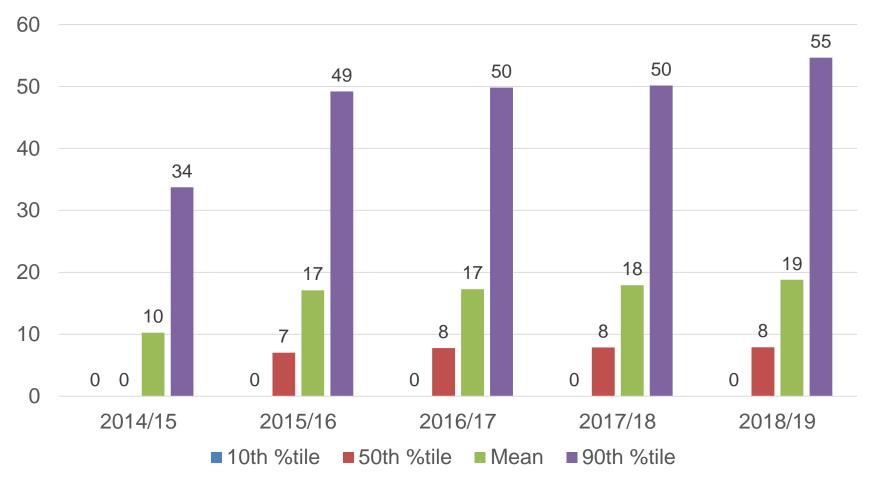


U.S. farm and futures prices for wheat



Wheat PLC payments

(Dollars per base acre for participating producers)



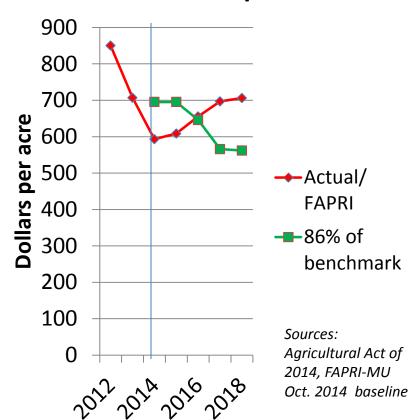
Source: FAPRI-MU March 2014 stochastic baseline



Revenue-based option for farm support

- Agriculture Risk Coverage (ARC)
 - Payment if per-acre revenues fall below trigger
 - For this example, using national yields, but actual program uses county- or farm-level yields
 - Paid on share of base acreage
 - 85% if choose county option
 - 65% if choose farm option (all crops on farm)

Corn revenues per acre





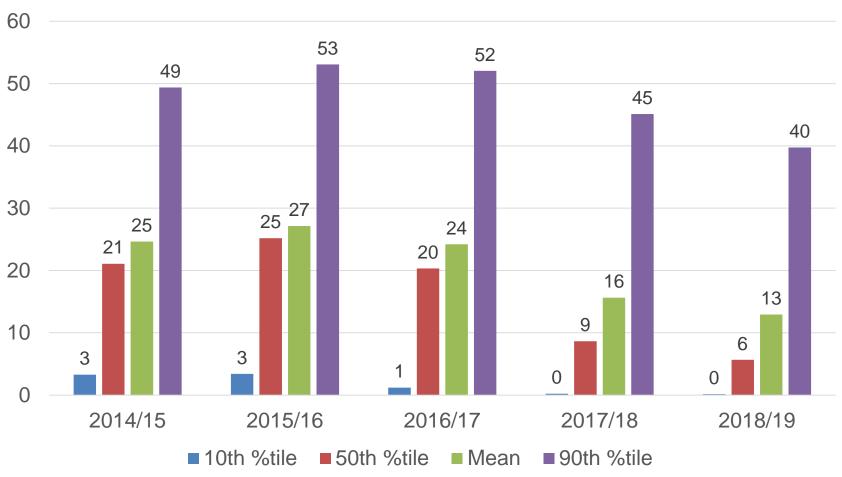
ARC-CO calculation example Audrain Co., MO corn, using NASS yields

	Max of (national avg. farm price, reference price)	County yield	Revenue
2009/10	\$3.70/bu.	146.0 bu./a.	
2010/11	\$5.18	122.3	
2011/12	\$6.22	105.2	
2012/13	\$6.89	33.4*	
2013/14	\$4.46	124.3	
Olympic average	\$5.29	117.3	
2014/15 benchmark revenue			\$621
86% of benchmark			\$534
1 st option triggering payments	\$3.40	<157	<\$534
2 nd option triggering payments	<\$3.14	170	<\$534

^{*}Note: this yield would be replaced by a plug yield, but regardless, it is dropped as the lowest of the five years.

Corn ARC payments

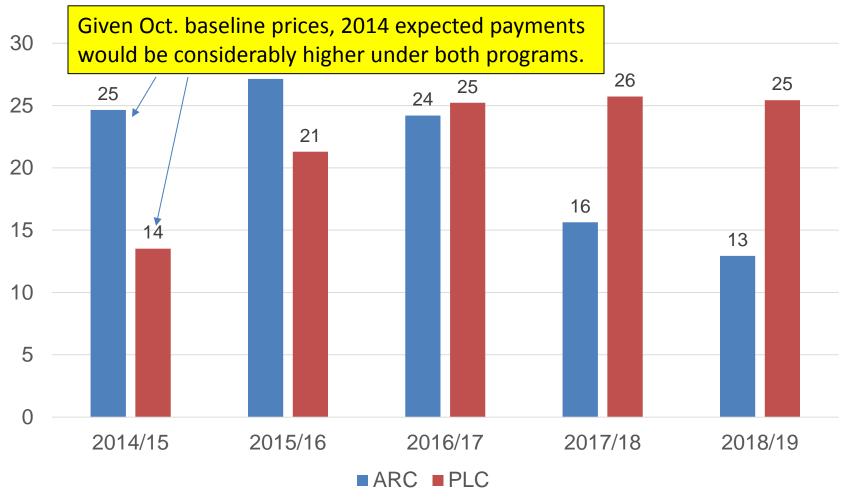
(Dollars per base acre for participating producers)



Source: FAPRI-MU March 2014 stochastic baseline



U.S. avg. corn ARC and PLC payments (Dollars per base acre for participating producers)



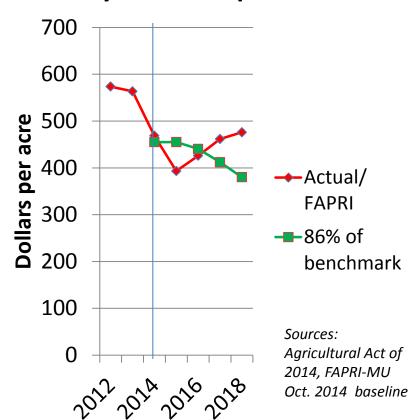
Source: FAPRI-MU March 2014 stochastic baseline



Revenue-based option for farm support

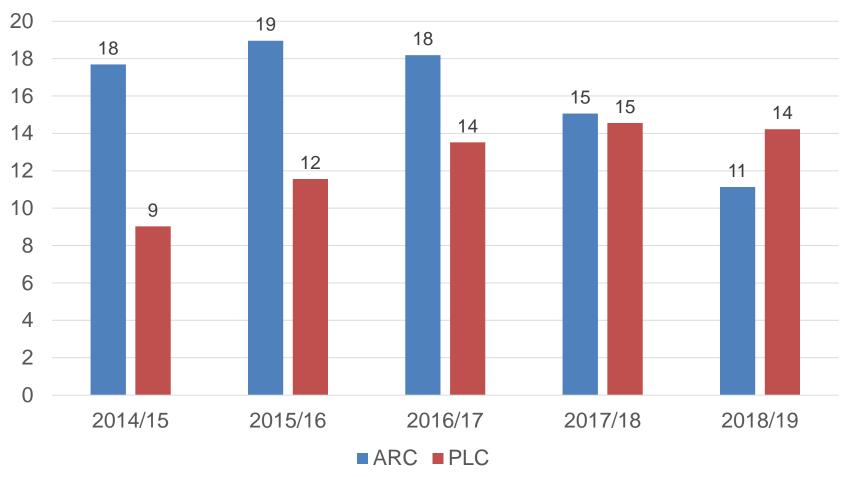
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Soy revenues per acre





Avg. soybean ARC and PLC payments (Dollars per base acre for participating producers)



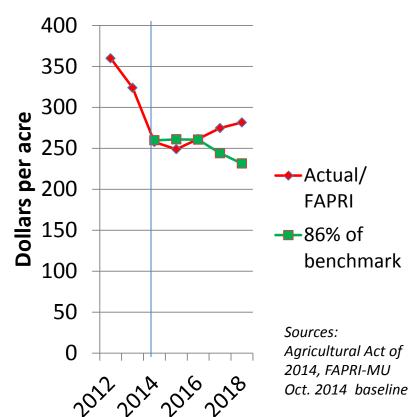
Source: FAPRI-MU March 2014 stochastic baseline



Revenue-based option for farm support

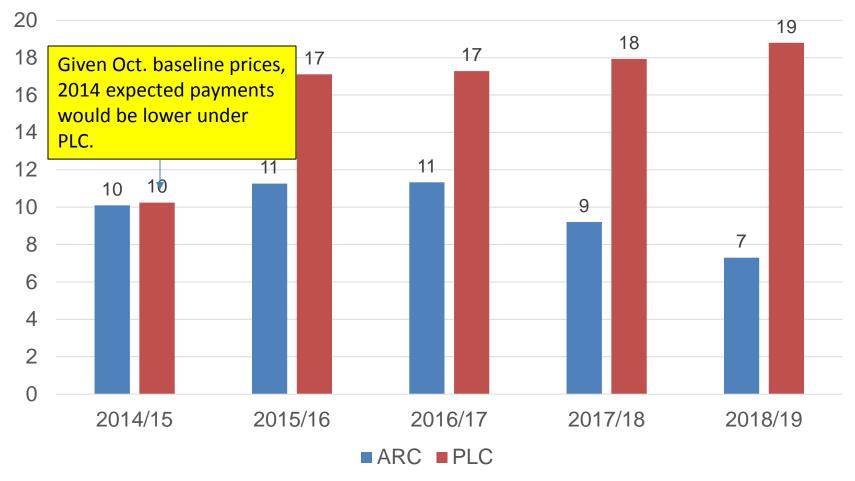
- Agriculture Risk Coverage (ARC)
 - Payment if per-acre revenues fall below trigger
 - For this example, using national yields, but actual program uses county- or farm-level yields
 - Paid on share of base acreage
 - 85% if choose county option
 - 65% if choose farm option (all crops on farm)

Wheat revenues per acre





Avg. wheat ARC and PLC payments (Dollars per base acre for participating producers)



Source: FAPRI-MU March 2014 stochastic baseline



Back to Audrain Co., MO corn 2014/15 crop year payments

2014/15 national season-average corn price	PLC payment per base acre (program yield= 100 bu./a.)	ARC payment per base acre if county yield is 130 bu./a.	ARC payment per base acre if county yield is 150 bu./a.	ARC payment per base acre if county yield is 170 bu./a.
3.00	\$59.50	\$52.74	\$52.74	\$20.10
3.20	\$42.50	\$52.74	\$45.60	\$0
3.40	\$25.50	\$52.74	\$20.10	\$0
3.60	\$8.50	\$52.74	\$0	\$0
3.80	\$0	\$33.70	\$0	\$0
4.00	\$0	\$11.60	\$0	\$0



Final comments

- No one knows what future prices will be
- But choices depend on expectations of future prices
 - Every year: which crops to plant
 - ARC/PLC and crop insurance choices
- Recommendations
 - Use the tools to look at payment implications of different assumptions about future average prices
 - In making program choices, think both about likely payments and about the risks you most want to manage



Thanks!

- FAPRI-MU website: www.fapri.missouri.edu
- To contact Peter Zimmel:
 - **-** 573-884-8787
 - zimmelp@missouri.edu

- FAPRI-MU team:
 - Julian Binfield
 - Sera Chiuchiarelli
 - Deepayan Debnath
 - Scott Gerlt
 - Lauren Jackson
 - Willi Meyers
 - Wyatt Thompson
 - Pat Westhoff
 - Jarrett Whistance

