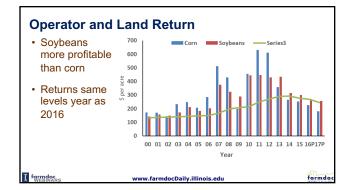
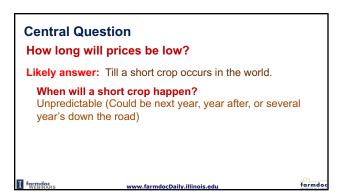


• Trend-line yield	
• \$3.50 corn price, \$9.0	00 soybean price
Non-land costs decre similar amount for so	ease \$27 per acre for corn, bybeans
Cash rents aggressive	vely come down \$23 per acre
	JETTINE TO STATE OF

2047 Cron		Corn	Soybeans	Average
2017 Crop	Yield	200	64	
Budgets for	Price	\$3.50	\$9.00	
Budgets 101	Crop revenue	\$700	\$576	\$638
Llimb Dunduntivitu	ARC/PLC	0	0	0
High-Productivity	Gross revenue	\$700	\$576	\$638
Farmland in	Direct costs	340	160	250
Faiilliailu III	Power costs	115	98	107
	Overhead costs	65	60	63
Central Illinois	Non-land costs	\$520	\$318	\$420
	Operator and land returns	\$180	\$258	\$218
	Cash rent	245	245	245
	Farmer return	-\$65	\$13	-\$27
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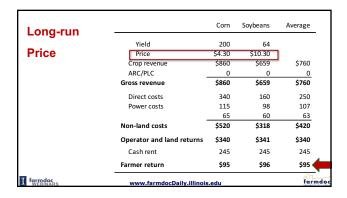






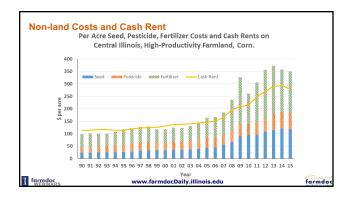


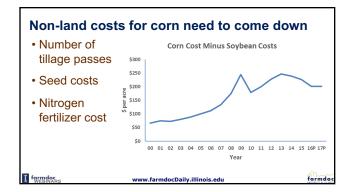
2017 Crop		Corn	Soybeans	Average
2017 Olop -				
Budgets for	Yield	200	64	
Daugete iei	Price	\$4.00	\$9.50	
<b>High-Productivity</b>	Crop revenue	\$800	\$608	\$704
riigii-i roddctivity	ARC/PLC	0	0	0
Farmland in	Gross revenue	\$800	\$608	\$704
	Direct costs	340	160	250
Central Illinois	Power costs	115	98	107
	Overhead costs	65	60	63
	Non-land costs	\$520	\$318	\$420
	Operator and land returns	\$280	\$290	\$284
	Cash rent	245	245	245
	Farmer return	\$35	\$45	\$39
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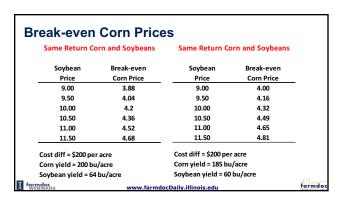


# Cash Rent Decisions Know the cash rent won't work at \$3.50 corn / \$9.00 soybean prices Will it work at \$4.30 corn / \$10.30 soybean price? How long can you stand \$3.50 corn prices?

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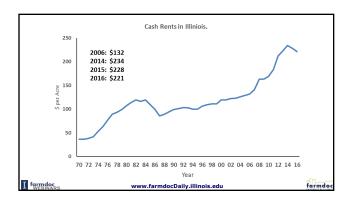


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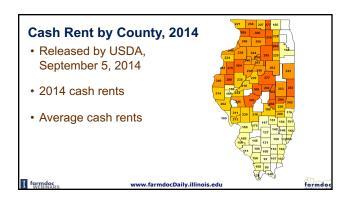
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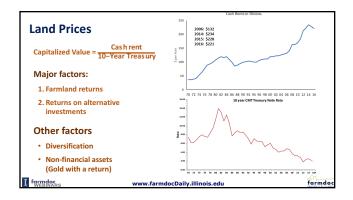


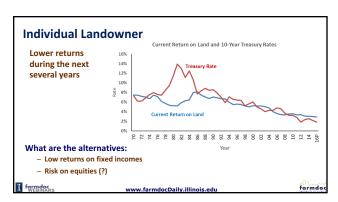




Land Productivity	Averages	Averages Professionally Managed Farmla				
(Expected corn yield	2014	2014	2015	2016	2017P	
State average	\$/acre 234	\$/acre	\$/acre	\$/acre	\$/acre	
Excellent (190+ bushels)	293	374	350	325	301	
Good (170 - 190 bushels)	243	322	295	283	263	
Average (150 - 170 bushels)	159	285	250	247	224	
Fair (Less than 150 bushels)		214	200	190	178	















### **Summary**

Continued low incomes in 2016

Potential for continued low returns in 2017, put downward pressure on cash rents.

Non-land costs and cash rents must continue to decline.

#### Look at:

- Planting more soybeans
- Lowering all costs
- · Lowering cash rents

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## **CROP BUDGETS**

Department of Agricultural and Consumer Economics University of Illinois

# CROP BUDGETS, ILLINOIS, 2016



Department of Agricultural and Consumer Economics
University of Illinois
June 2016

#### Introduction

## Gary Schnitkey Department of Agricultural and Consumer Economics University of Illinois

June 2016

This publication presents crop budgets for three regions in Illinois: northern, central, and southern Illinois. Central Illinois is further divided into categories for high-productivity farmland and low-productivity farmland.

Budgets are prepared to include all revenue and all financial non-land costs. Revenue includes crop revenue and government commodity payments. Costs include all cash costs associated with producing the crop as well as depreciation. These costs are divided into three categories: 1) direct costs – costs that can be directly attributable to the production of the crop, 2) power costs – costs related to machinery operations, and 3) overhead – costs associated with general operation of the farm.

Subtracting non-land costs from revenue yields "operator and land return". This is the return remaining to pay for farmland and provide a return to the operator. In a cash rent situation, the payment for farmland is cash rent. If the operator and land return is \$170 per acre and cash rent is \$150 then the operator will have \$20 of return.

**Acknowledgments:** Much of the data used in these budgets comes from the local Farm Business Farm Management (FBFM) Associations across the State of Illinois. Without their cooperation, information as comprehensive and accurate as this would not be available for educational purposes. FBFM, which consists of 5,500 plus farmers and over 60 professional field staff, is a not-for-profit organization available to all farm operators in Illinois. FBFM field staff provides on-farm counsel with computerized recordkeeping, farm financial management, business entity planning and income tax management. For more information, please contact the State FBFM Office located at the University of Illinois Department of Agricultural and Consumer Economics at 217-333-5511 or visit the FBFM website at <a href="https://www.fbfm.org">www.fbfm.org</a>.

Table 1. 2016 Crop Budgets, Northern Illinois.

	Corn- after-	Corn- after-	Soybeans- after-	Soybeans- after-Two	
	Soybeans	Corn	Corn	Years-Corn	Wheat
Yield per acre	196	186	60	62	75
Price per bu	\$3.85	\$3.85	\$10.60	\$10.60	\$4.20
Crop revenue	\$755	\$716	\$636	\$657	\$315
ARC/PLC	30	30	30	30	30
Crop insurance proceeds	0	0	0	0	0
Gross revenue	\$785	\$746	\$666	\$687	\$345
Fertilizers	\$130	\$140	\$30	\$30	\$76
Pesticides	60	66	30	30	27
Seed	123	123	76	76	50
Drying	28	27	0	0	1
Storage	5	5	3	3	1
Crop insurance	24	24	13	13	9
Total direct costs	\$370	\$385	\$152	\$152	\$164
Machine hire/lease	\$18	\$18	\$16	\$16	\$18
Utilities	6	6	5	5	7
Machine repair	26	26	22	22	33
Fuel and oil	18	18	17	17	20
Light vehicle	2	2	2	2	2
Mach. depreciation	70	70	61	61	49
Total power costs	\$140	\$140	\$123	\$123	\$129
Hired labor	\$19	\$19	\$17	\$17	\$15
Building repair and rent	8	8	4	4	3
Building depreciation	18	18	9	9	8
Insurance	11	11	11	7	5
Misc	9	9	9	9	9
Interest (non-land)	19	19	16	16	14
Total overhead costs	\$84	\$84	\$66	\$62	\$54
Total non-land costs	\$594	\$609	\$341	\$337	\$347
Operator and land return	\$191	\$137	\$325	\$350	-\$2

Table 2. 2016 Crop Budgets, Central Illinois -- High Productivity Farmland.

	Corn- after- Soybeans	Corn- after- Corn	Soybeans- after- Corn	Soybeans- after-Two Years-Corn	Wheat	Double- Crop Soybeans
Yield per acre	201	191	58	60	75	32
Price per bu	\$3.85	\$3.85	\$10.60	\$10.60	\$4.20	\$10.60
Crop revenue	\$774	\$735	\$615	\$636	\$315	\$339
ARC/PLC	30	30	30	30	30	0
Crop insurance proceeds	0	0	0	0	0	0
Gross revenue	\$804	\$765	\$645	\$666	\$345	\$339
Fertilizers	\$125	\$135	\$32	\$32	\$76	\$24
Pesticides	66	72	40	40	27	36
Seed	116	116	76	76	50	45
Drying	15	14	1	1	1	0
Storage	14	14	8	8	1	1
Crop insurance	24	24	16	16	9	4
Total direct costs	\$360	\$375	\$173	\$173	\$164	\$110
Machine hire/lease	\$12	\$12	\$11	\$11	\$18	\$11
Utilities	5	5	4	4	7	5
Machine repair	22	22	20	20	33	27
Fuel and oil	17	17	17	17	20	21
Light vehicle	1	1	1	1	2	2
Mach. depreciation	64	64	59	59	49	30
Total power costs	\$121	\$121	\$112	\$112	\$129	\$96
Hired labor	\$17	\$17	\$16	\$16	\$15	\$13
Building repair and rent	5	5	4	4	3	6
Building depreciation	12	12	11	11	8	5
Insurance	10	10	10	10	5	0
Misc	8	8	8	8	9	0
Interest (non-land)	14	14	12	12	14	7
Total overhead costs	\$66	\$66	\$61	\$61	\$54	\$31
Total non-land costs	\$547	\$562	\$346	\$346	\$347	\$237
Operator and land return	\$257	\$203	\$299	\$320	-\$2	\$102

Table 3. 2016 Crop Budgets, Central Illinois -- Low Productivity Farmland.

	Corn- after- Soybeans	Corn- after- Corn	Soybeans- after- Corn	Soybeans- after-Two Years-Corn	Wheat	Double- Crop Soybeans
Yield per acre	186	176	53	55	71	32
Price per bu	\$3.85	\$3.85	\$10.60	\$10.60	\$4.20	\$10.60
Crop revenue	\$716	\$678	\$562	\$583	\$298	\$339
ARC/PLC	30	30	30	30	30	0
Crop insurance proceeds	0	0	0	0	0	0
Gross revenue	\$746	\$708	\$592	\$613	\$328	\$339
Fertilizers	\$125	\$135	\$32	\$32	\$22	\$74
Pesticides	68	74	35	35	28	37
Seed	121	121	77	77	41	50
Drying	13	13	1	1	1	0
Storage	13	13	4	4	1	1
Crop insurance	22	22	16	16	8	5
Total direct costs	\$362	\$378	\$165	\$165	\$101	\$167
Machine hire/lease	\$13	\$13	\$11	\$11	\$13	\$10
Utilities	6	6	4	4	4	4
Machine repair	24	24	20	20	18	18
Fuel and oil	18	18	16	16	15	15
Light vehicle	1	1	1	1	1	1
Mach. depreciation	64	64	58	58	48	38
Total power costs	\$126	\$126	\$110	\$110	\$99	\$86
Hired labor	\$16	\$16	\$16	\$16	\$13	\$13
Building repair and rent	6	6	4	4	2	6
Building depreciation	13	13	11	11	9	9
Insurance	10	10	10	10	8	0
Misc	8	8	8	8	7	0
Interest (non-land)	14	14	12	12	14	7
Total overhead costs	\$67	\$67	\$61	\$61	\$53	\$35
Total non-land costs	\$555	\$571	\$336	\$336	\$253	\$288
Operator and land return	\$191	\$137	\$256	\$277	\$75	\$51

Table 4. 2016 Crop Budgets, Southern Illinois.

	Corn- after- Soybeans	Corn- after- Corn	Soybeans- after- Corn	Soybeans- after-Two Years-Corn	Wheat	Double- Crop Soybeans
Yield per acre	164	154	48	48	68	32
Price per bu	\$3.85	\$3.85	\$10.60	\$10.60	\$4.20	\$10.60
Crop revenue	\$631	\$593	\$509	\$509	\$286	\$339
ARC/PLC	25	25	25	25	25	0
Crop insurance proceeds	0	0	0	0	0	0
Gross revenue	\$656	\$618	\$534	\$534	\$311	\$339
Fertilizers	\$120	\$130	\$38	\$38	\$80	\$24
Pesticides	66	72	30	30	28	36
Seed	119	119	76	76	41	45
Drying	8	8	0	0	1	0
Storage	6	6	4	4	1	1
Crop insurance	19	19	13	13	8	4
Total direct costs	\$338	\$354	\$161	\$161	\$159	\$110
Machine hire/lease	\$12	\$12	\$12	\$12	\$14	\$11
Utilities	7	7	6	6	7	5
Machine repair	28	28	27	27	33	22
Fuel and oil	18	18	16	16	16	14
Light vehicle	1	1	1	1	2	2
Mach. depreciation	69	69	59	59	49	30
Total power costs	\$135	\$135	\$121	\$121	\$121	\$84
Hired labor	\$30	\$30	\$25	\$25	\$13	\$13
Building repair and rent	7	7	4	4	8	6
Building depreciation	19	19	11	11	11	5
Insurance	13	13	13	13	9	0
Misc	10	10	10	10	7	0
Interest (non-land)	15	15	15	15	17	7
Total overhead costs	\$94	\$94	\$78	\$78	\$65	\$31
Total non-land costs	\$567	\$583	\$360	\$360	\$345	\$225
Operator and land return	n \$89	\$35	\$174	\$174	-\$34	\$114