Corn Cost-Return Budget in Southeast Kansas

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Kansas State University Agricultural Experiment Station and Cooperative Extension Service

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The information in this projected budget reflects expected income and costs based on typical production practices in the region. These values should be used as a guide, but individuals are encouraged to use their own values reflecting their specific land productive capabilities and farming system when looking at the potential costs and returns for their operations.

Income Per Acre

Crop production costs per unit and net returns are highly dependent on yields. The following estimated budgets include three different yield levels, which are intended to represent expected yields for land of varying quality for a given level of management. Yield levels are based on historical data from the Kansas Farm Management Association in the region, adjusting for trends over time. Cash rent for land has been adjusted for alternative yield levels in this budget and planting intensity (i.e., either fallow or double cropping). In customizing a budget for your farm, attention should be given to using land values (i.e., rents) that are representative of your farm's productive capacity, planting intensity, and local farmland market conditions.

Output price represents an expected harvest price in the region. Typically, a reasonable price forecast for most crops is to use the futures market adjusted by the historical basis for a particular location, where basis equals cash price minus futures price. Silage prices are based on corresponding crop

Table 1. Production Inputs — Corn

	Yie	eld Level		
Item	99	117	135	
Seed,1,000/a	24	24	28	\$3.33/1,000
Fertilizer:				
N-anhydrous	99	118	136	\$0.71/lb
N	0	0	0	\$0.56/lb
P	35	41	47	\$0.68/lb
K	25	29	34	\$0.40/lb
Lime	333	333	333	\$0.015/lb
Herbicide				
Preemergence	1	1	1	\$37.57/a
Postemergence	1	1	1	\$15.65/a

^{*} If not following soybeans, add 30lb N

prices. See MF1013 for more detailed information on price forecasts.

Because the yields used in the budgets reflect average expected yields, there is no crop insurance indemnity payment included in income. Crop insurance premiums will vary tremendously based on many factors (proven yield, coverage level, type of insurance policy). Crop insurance premiums included as costs reflect an expected net premium paid on average given the expected revenue.

Table 2. Machinery and Land Resources — Corn

	Y	ield Level (bu/	'a)	Custom	
Item	99	117	135	Rate	
Tillage/Planting/Chemical Application	ns:				
Chisel	0	0	0	\$15.91/a	
Disk	1	1	1	\$13.33/a	
Field cultivate	1	1	1	\$12.28/a	
Plant	1	1	1	\$16.41/a	
Anhydrous application	1	1	1	\$13.79/a	
Fertilizer application	1	1	1	\$6.42/a	
Herbicide application	2	2	2	\$6.62/a	
Insecticide/fungicide application	0	0	0	\$6.76/a	
Harvest					
Base charge	1	1	1	\$31.29/a	
Extra charge for yields exceeding	88	88	88	\$0.19/bu	
Hauling	99	117	135	\$0.20/bu	
Non-machinery labor	0.50	0.50	0.50	\$15.00/hr	
Land charge/rent	\$24.00	\$32.00	\$40.00		
Interest on capital				6.5%	

Costs Per Acre

Production costs at the three yield levels are shown on lines 1 through 13. Projected Kansas custom rates for specific field operations are used to represent fuel and labor costs as well as

machinery repair, depreciation, and interest expenses. Table 1 identifies seed, fertilizer, herbicide, and insecticide/fungicide costs. Fertilizer rates are based on removal with adjustments for local conditions. Table 2 outlines the machinery operations assumed, non-machinery labor, and land cash rent.

COST-RETURN PROJECTION — CORN — SOUTHEAST KANSAS

	Yield Level (bu/a)					Your
	99		117		135	Farm
	0.0		445		405	
_		_		_		
\$	3.59	\$_	3.59	\$_	3.59	
\$		\$_		\$_		
\$		\$_		\$_		
\$		\$_		\$_		
\$	355.41	\$_	420.03	\$_	484.65	
\$		\$_		\$_		
_	53.22	_	53.22	_	53.22	
		_		_		
	109.09	_	128.26	_	147.12	
		_		_		
	9.91	_	12.46	_	15.01	
		_		_		
	7.00	_	7.00	_	7.00	
	128.65		135.67	_	142.69	
	7.50		7.50	_	7.50	
				_		
		_				
	24.00		32.00		40.00	
\$	419.29	\$	456.03	\$	505.78	
	12.85	"-	13.78		15.14	
\$	432.14	\$	469.81	\$	520.91	
77		 \$		 \$		
-		\$_ \$		\$_ \$		
				- Nr		
	\$	99 99 \$ 3.59 \$ 3.59 \$ 5 \$ 355.41 \$ 79.92 53.22 109.09 9.91 7.00 128.65 7.50 24.00 \$ 419.29 12.85 \$ 432.14 \$ -76.73	99 99 \$ 3.59 \$ \$ \$ \$ \$ \$ \$ \$ 79.92 \$ 53.22 \$ 109.09 \$ 9.91 \$ 7.00 \$ 128.65 \$ 7.50 \$ 24.00 \$ 419.29 \$ 12.85 \$ 432.14 \$ \$ -76.73 \$ \$ 4.37 \$	99 117 \$ 3.59 \$ 3.59 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ 420.03 \$ 79.92 \$ 79.92 53.22 53.22 109.09 128.26 9.91 12.46 7.00 7.00 128.65 135.67 7.50 7.50 \$ 419.29 \$ 456.03 12.85 13.78 \$ 432.14 \$ 469.81 \$ -76.73 \$ -49.78 \$ 4.37 \$ 4.02	99 117 \$ 3.59 \$ 3.59 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	99 117 135 \$ 3.59 \$ 3.59 \$ 3.59 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$

^{*} Reflects expected net premium paid.

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Kansas State University Agricultural Experiment Station and Cooperative Extension Service

MF993 April 2015