

Wheat Cost-Return Budget in Southeast Kansas



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Although Kansas is commonly referred to as the “wheat state,” wheat acreage in southeast Kansas will vary greatly from year to year as producers consider a variety of factors. Wet weather in the fall can inhibit planting. Also, the price per bushel of wheat, relative to other crops, will usually enter into the decision. Producers also typically consider the agronomic benefits of using wheat as a rotation crop that breaks up weed cycles and the possibility of using the long growing season to double crop soybeans or annual lespedeza in the wheat stubble for additional income. Acreage is not the only aspect of wheat production that varies in southeast Kansas, wet weather and/or high humidity can have a drastic impact on wheat yields, making this one of the most variable crops grown in southeast Kansas. The following budget outlines the expected costs and returns for wheat in southeast Kansas.

Income per Acre

Crop production costs per unit are highly dependent on yields. The following estimated budget includes three different yield levels which are intended to represent expected yields for land of varying quality for a given level of management. Alternative expected yields can help producers compare the profitability of crop enterprises on farmland tracts with varying yield potentials. Land values and government payments have been adjusted for alternative yield levels in this budget. In customizing this budget to your farm, attention

Table 1. Production Inputs — Wheat

Item	Yield Level (bu)			
	35	45	55	
Seed, lbs	80	80	80	\$0.16/lb
Fertilizer:				
N (anhydrous)	0	0	0	\$0.44/lb
N	50	70	90	\$0.68/lb
P	35	35	40	\$0.80/lb
K	30	30	30	\$0.55/lb
Lime	333	333	333	\$0.01/lb
Herbicide				
Finesse	0.2	0.2	0.2	\$14.84/oz

should be given to using land values representative of your farm's production capacity.

Price per bushel represents an expected harvest price in Emporia, Kan. Producers in other regions of southeast Kansas should account for local basis (cash price – futures price) when making their own price forecasts.

Crop insurance was not included as an input expense in this budget because yields reflect an average of all years

Table 2. Machinery and Land Resources — Wheat

Item	Yield Level (bu)			Custom Rate
	35	45	55	
Tillage/Planting/Chemical Applications:				
Chisel	0	0	0	\$11.56/a
Disk	1	1	1	\$9.89/a
Field cultivate	0	0	0	\$9.49/a
Drill	1	1	1	\$12.36/a
Anhydrous application	0	0	0	\$10.89/a
Fertilizer application	2	2	2	\$5.36/a
Herbicide application	1	1	1	\$5.47/a
Insecticide / fungicide application	0	0	0	\$5.54/a
Harvest				
Base charge	1	1	1	\$20.63/a
Extra charge for yields exceeding	22	22	22	\$0.200/bu
Hauling	35	45	55	\$0.191/bu
Non-machinery labor	0.59	0.63	0.66	\$13.00/hr
Land charge/rent	\$60.80	\$76.00	\$91.20	
Interest on capital				6.5%

(good and bad). If crop insurance is included as an input expense, then an expected value for indemnity payments should be included in the returns section. Historically, MPCCI indemnity payments have exceeded premiums due to government subsidies.

Costs per Acre

Production costs at the three production levels are shown on lines 1 through 13. Kansas Custom Rates for specific field

operations are used to represent fuel and labor costs as well as machinery repair, depreciation, and interest expenses in these budgets. Table 1 identifies the typical seed, fertilizer, herbicide, and insecticide requirements (rate and cost/unit) for wheat. Each tillage, planting, and harvest operation is identified. Table 2 outlines the machinery and land resources used for wheat. Each tillage, planting, and harvest operation is identified.

COST-RETURN PROJECTION — WHEAT — SOUTHEAST KANSAS

	Yield Level (bu)			Your Farm
	35	45	55	
INCOME PER ACRE				
A. Yield per acre.....	35	45	55	_____
B. Price per bushel	\$ 6.46	\$ 6.46	\$ 6.46	_____
C. Net government payment	\$ 10.48	\$ 11.39	\$ 12.30	_____
D. Indemnity payments	\$ _____	\$ _____	\$ _____	_____
E. Miscellaneous income.....	\$ _____	\$ _____	\$ _____	_____
F. Returns/acre ((A × B) + C + D + E)	\$ 236.58	\$ 302.09	\$ 367.60	_____
COSTS PER ACRE				
1. Seed	\$ 12.80	\$ 12.80	\$ 12.80	_____
2. Herbicide	2.97	2.97	2.97	_____
3. Insecticide / Fungicide	_____	_____	_____	_____
4. Fertilizer and Lime	81.83	95.43	113.03	_____
5. Crop Consulting	_____	_____	_____	_____
6. Crop Insurance	_____	_____	_____	_____
7. Drying	_____	_____	_____	_____
8. Miscellaneous.....	7.00	7.00	7.00	_____
9. Custom Hire / Machinery Expense.....	68.36	72.27	76.18	_____
10. Non-machinery Labor	7.72	8.17	8.61	_____
11. Irrigation	_____	_____	_____	_____
a. Labor	_____	_____	_____	_____
b. Fuel and Oil.....	_____	_____	_____	_____
c. Repairs and Maintenance	_____	_____	_____	_____
d. Depreciation on Equipment and Well.....	_____	_____	_____	_____
e. Interest on Equipment.....	_____	_____	_____	_____
12. Land Charge / Rent.....	60.80	76.00	91.20	_____
G.SUB TOTAL	\$ 241.48	\$ 274.63	\$ 311.78	_____
13. Interest on ½ Nonland Costs	5.87	6.46	7.17	_____
H. TOTAL COSTS	\$ 247.35	\$ 281.08	\$ 318.95	_____
I. RETURNS OVER COSTS (F - H)	\$ -10.77	\$ 21.01	\$ 48.65	_____
J. TOTAL COSTS/BUSHEL (H ÷ A)	\$ 7.07	\$ 6.25	\$ 5.80	_____
K. RETURN TO ANNUAL COST (I + 13) ÷ G	-2.03%	10.00%	17.90%	_____

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