

Date: Nov-01-2023

The following pages represent a single crop budget but at 3 levels of detail and for 3 planning yield levels

Abstract level budget - The most summarized version of a budget. (e.g., a single line represents all fertilizer costs)

Summary level budget - A more detailed crop budget. (e.g., Fertilizer is broken out into N, P, K)

Detailed level budget - All the detail for producing a crop. (e.g., The specific fertilizers are listed).

Middle yield - The basic crop budget for a region and crop.

A detailed, summary, and abstract level budget are included for the middle yield.

Low and High yield - Budgets based on the middle yield but with a lower/higher yield goal (and irrigation level).

These high and low yield level budgets only include the abstract level budgets.

The 2 tables below are sensitivity tables that show the returns over direct costs and the returns over total costs

The tables have the basic budget price in the middle column

On either side of the base price are potential prices 5% and 10% above and below this base price

TABLE 1. RETURNS OVER DIRECT COSTS

		Prices					
		\$4.58	\$4.84	\$5.09	\$5.35	\$5.60	
	88.0 lb	\$144	\$166	\$188	\$211	\$233	Low yield
Yields	110.0 lb	\$196	\$224	\$252	\$280	\$308	Middle yield
	132.0 lb	\$286	\$320	\$353	\$387	\$421	High yield

TABLE 2. RETURNS OVER TOTAL COSTS

		Prices					
		\$4.58	\$4.84	\$5.09	\$5.35	\$5.60	
	88.0 lb	\$26	\$48	\$71	\$93	\$116	Low yield
Yields	110.0 lb	\$79	\$107	\$134	\$162	\$190	Middle yield
	132.0 lb	\$169	\$202	\$236	\$270	\$303	High yield

2024 Corn Cost-Return Budget in South Central Kansas

----- MIDDLE YIELDS

Gregg Ibendahl, Daniel O'Brien, Sarah Lancaster, and Douglas Shoup

Budget abstract

Date: Nov-01-2023

item	unit	price	quantity	amount	Sub-total	your farm
INCOME						
Product						
Corn - South Central KS	bu	\$5.09	110.00	\$559.96	\$559.96	_____

--TOTAL INCOME--					\$559.96	_____
DIRECT EXPENSES						
					\$0.00	_____
Additional labor					\$0.81	_____
Crop insurance					\$22.59	_____
Custom Operations					\$18.18	_____
Diesel					\$16.92	_____
Fertilizers					\$90.36	_____
Herbicides					\$48.51	_____
Miscellaneous					\$7.26	_____
Operator labor					\$8.51	_____
Repair & Maintenance					\$16.88	_____
Seeds					\$66.15	_____
Interest on operating capital		8% percent on direct expenses			\$11.85	_____

--TOTAL DIRECT EXPENSES--					\$308.00	_____
-----Total direct expenses per bu		\$2.8				
FIXED EXPENSES						
Cash rent					\$53.00	_____
Capital recovery (depreciation + interest)					\$64.45	_____

--TOTAL FIXED EXPENSES--					\$117.45	_____
-----Total expenses per bu		\$3.87				
RETURNS ABOVE DIRECT EXPENSES					=====	
					\$251.95	
RETURNS ABOVE TOTAL SPECIFIED EXPENSES						
					\$134.50	

2024 Corn Cost-Return Budget in South Central Kansas

MIDDLE YIELDS

Gregg Ibendahl, Daniel O'Brien, Sarah Lancaster, and Douglas Shoup

Summary page(s)

Date: Nov-01-2023

item	unit	price	quantity	amount	Sub-total	your farm
INCOME						
Product						
Corn - South Central KS	bu	\$5.09	110.00	\$559.96	\$559.96	_____
					\$559.96	_____
--TOTAL INCOME--						
DIRECT EXPENSES						
with planter	-----			\$0.00	\$0.00	_____
Additional labor						
Fertilizer application	-----			\$0.14		
Planting	-----			\$0.47		
Spraying	-----			\$0.20	\$0.81	_____
Crop insurance						
-----	-----			\$22.59	\$22.59	_____
Custom Operations						
Fertilizer application	-----			\$18.18	\$18.18	_____
Diesel						
Fertilizer application	-----			\$0.84		
Harvesting	-----			\$5.63		
Hauling	-----			\$3.29		
Planting	-----			\$1.21		
Spraying	-----			\$1.34		
Tillage	-----			\$4.61	\$16.92	_____
Fertilizers						
Pre-plant	-----			\$15.00		
Side-dressed	-----			\$45.36		
Nitrogen	lbs	\$0.51	100.00	\$50.56		
Phosphorus	lbs	\$0.64	39.00	\$24.80		
Potassium	lbs	\$0.00	0.00	\$0.00		
Lime	lbs	\$0.03	500.00	\$15.00	\$90.36	_____
Herbicides						
Post-emergence	-----			\$18.91		
Pre-emergence	-----			\$29.60	\$48.51	_____
Miscellaneous						
-----	-----			\$7.26	\$7.26	_____
Operator labor						
Fertilizer application	-----			\$0.44		
Harvesting	-----			\$2.04		
Hauling	-----			\$2.04		
Planting	-----			\$0.75		
Spraying	-----			\$0.63		
Tillage	-----			\$2.59	\$8.51	_____
Repair & Maintenance						
Fertilizer application	-----			\$1.43		
Harvesting	-----			\$7.64		
Hauling	-----			\$1.88		
Planting	-----			\$2.42		
Spraying	-----			\$0.41		
Tillage	-----			\$3.09	\$16.88	_____
Seeds						

2024 Corn Cost-Return Budget in South Central Kansas

----- MIDDLE YIELDS

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Summary page(s)

Date: Nov-01-2023

item	unit	price	quantity	amount	Sub-total	your farm
-----	-----			\$66.15	\$66.15	-----
Interest on operating capital		8% percent on direct expenses		\$11.85	\$11.85	-----
--TOTAL DIRECT EXPENSES--					\$308.00	
-----Total direct expenses per bu	\$2.8					
FIXED EXPENSES						
Cash rent				\$53.00	\$53.00	-----
Capital recovery (depreciation + interest)						
Fertilizer application				\$3.68		
Harvesting				\$28.08		
Hauling				\$7.75		
Planting				\$6.99		
Spraying				\$3.22		
Tillage				\$14.73	\$64.45	-----
--TOTAL FIXED EXPENSES--					\$117.45	
-----Total expenses per bu	\$3.87					
RETURNS ABOVE DIRECT EXPENSES					\$251.95	
RETURNS ABOVE TOTAL SPECIFIED EXPENSES					\$134.50	

2024 Corn Cost-Return Budget in South Central Kansas

----- MIDDLE YIELDS

Detailed budget page(s)

Gregg Ibendahl, Daniel O'Brien, Sarah Lancaster, and Douglas Shoup

Date: Nov-01-2023

item	unit	price	quantity	amount	Sub-total	your farm
INCOME						
Product						
Corn - South Central KS	bu	\$5.09	110.00	\$559.96	\$559.96	_____
Other						
Govt payments, indemnity payments, etc.						_____
--TOTAL INCOME--					\$559.96	_____
DIRECT EXPENSES						
with planter		\$0.00	0.00	\$0.00	\$0.00	_____
Additional labor						
Fertilizer application						
Nutrient applicator_60 ft with Tractor(200-249hp)CB	hour	\$15.00	0.01	\$0.14		
Planting						
Plant - Folding_24R-30 with Tractor(180-199hp)CB	hour	\$15.00	0.03	\$0.47		
Spraying						
Sprayer 800gal_80' 250hp with Sprayer 800gal	hour	\$15.00	0.01	\$0.20	\$0.81	_____
Crop insurance						

Corn_SC_Dry	acre	\$22.59	1.00	\$22.59	\$22.59	_____
Custom Operations						
Fertilizer application						
Application of Anhydrous Ammonia	acre	\$18.18	1.00	\$18.18	\$18.18	_____
Diesel						
Fertilizer application						
Nutrient applicator_60 ft with Tractor(200-249hp)CB	gal	\$3.95	0.21	\$0.84		
Harvesting						
Header - Corn_12R-30 with Combine (300-349 hp)	gal	\$3.95	1.42	\$5.63		
Hauling						
Grain Cart Corn_700 bu with Tractor(180-199hp)CB	gal	\$3.95	0.83	\$3.29		
Planting						
Plant - Folding_24R-30 with Tractor(180-199hp)CB	gal	\$3.95	0.31	\$1.21		
Spraying						
Sprayer 800gal_80' 250hp with Sprayer 800gal	gal	\$3.95	0.34	\$1.34		
Tillage						
Disk Harrow_32' with Tractor(200-249hp)CB	gal	\$3.95	0.71	\$2.81		
Field Cultivate Fld_32' with Tractor(180-199hp)CB	gal	\$3.95	0.46	\$1.80	\$16.92	_____
Fertilizers						
Pre-plant						
Lime	lb	\$0.03	500.00	\$15.00		
Side-dressed						
Anhydrous	ton	\$0.41	112.00	\$45.36		
with planter						
MAP (11-52-0)	ton	\$0.40	75.00	\$30.00	\$90.36	_____
--- ACTUAL POUNDS - 100 lb - N, 39 lb - P, 0 lb - K						
Herbicides						
Post-emergence						
Glyphosate	oz	\$0.43	11.00	\$4.75		
Laudis	oz	\$3.79	1.00	\$3.79		
Status	oz	\$3.77	2.75	\$10.37		
Pre-emergence						
Bicep II Magnum	oz	\$0.36	27.00	\$9.67		

2024 Corn Cost-Return Budget in South Central Kansas

----- MIDDLE YIELDS

Detailed budget page(s)

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Date: Nov-01-2023

item	unit	price	quantity	amount	Sub-total	your farm
Halex GT	oz	\$0.44	19.00	\$8.27		
Harness Xtra	oz	\$0.51	23.00	\$11.65	\$48.51	_____
Miscellaneous						

Corn_SC_Dry	acre	\$7.26	1.00	\$7.26	\$7.26	_____
Operator labor						
Fertilizer application						
Nutrient applicator_60 ft with Tractor(200-249hp)CB	hour	\$20.00	0.02	\$0.44		
Harvesting						
Header - Corn_12R-30 with Combine (300-349 hp)	hour	\$20.00	0.10	\$2.04		
Hauling						
Grain Cart Corn_700 bu with Tractor(180-199hp)CB	hour	\$20.00	0.10	\$2.04		
Planting						
Plant - Folding_24R-30 with Tractor(180-199hp)CB	hour	\$20.00	0.04	\$0.75		
Spraying						
Sprayer 800gal_80' 250hp with Sprayer 800gal	hour	\$20.00	0.03	\$0.63		
Tillage						
Disk Harrow_32' with Tractor(200-249hp)CB	hour	\$20.00	0.07	\$1.47		
Field Cultivate Fld_32' with Tractor(180-199hp)CB	hour	\$20.00	0.06	\$1.12	\$8.51	_____
Repair & Maintenance						
Fertilizer application						
Nutrient applicator_60 ft with Tractor(200-249hp)CB	Hour	\$77.85	0.02	\$1.43		
Harvesting						
Header - Corn_12R-30 with Combine (300-349 hp)	Hour	\$89.75	0.09	\$7.64		
Hauling						
Grain Cart Corn_700 bu with Tractor(180-199hp)CB	Hour	\$22.07	0.09	\$1.88		
Planting						
Plant - Folding_24R-30 with Tractor(180-199hp)CB	Hour	\$77.10	0.03	\$2.42		
Spraying						
Sprayer 800gal_80' 250hp with Sprayer 800gal	Hour	\$31.29	0.01	\$0.41		
Tillage						
Disk Harrow_32' with Tractor(200-249hp)CB	Hour	\$32.99	0.06	\$2.02		
Field Cultivate Fld_32' with Tractor(180-199hp)CB	Hour	\$22.87	0.05	\$1.07	\$16.88	_____
Seeds						

Corn - Roundup ready	1K seeds	\$3.15	21.00	\$66.15	\$66.15	_____
Interest on operating capital						
8% percent on direct expenses				\$11.85	\$11.85	_____
--TOTAL DIRECT EXPENSES--					\$308.00	
-----Total direct expenses per bu \$2.8						
FIXED EXPENSES						
Cash rent						

All crops_SC_Dry	acre	\$53.00	1.00	\$53.00	\$53.00	_____
Capital recovery (depreciation + interest)						
Fertilizer application						
Nutrient applicator_60 ft with Tractor(200-249hp)CB	Hour	\$200.66	0.02	\$3.68		
Harvesting						
Header - Corn_12R-30 with Combine (300-349 hp)	Hour	\$329.79	0.09	\$28.08		
Hauling						
Grain Cart Corn_700 bu with Tractor(180-199hp)CB	Hour	\$91.12	0.09	\$7.75		
Planting						
Plant - Folding_24R-30 with Tractor(180-199hp)CB	Hour	\$222.52	0.03	\$6.99		
Spraying						

2024 Corn Cost-Return Budget in South Central Kansas

----- MIDDLE YIELDS

Gregg Ibendahl, Daniel O'Brien, Sarah Lancaster, and Douglas Shoup

Detailed budget page(s)

Date: Nov-01-2023

item	unit	price	quantity	amount	Sub-total	your farm
Sprayer 800gal_80' 250hp with Sprayer 800gal	Hour	\$243.29	0.01	\$3.22		
Tillage						
Disk Harrow_32' with Tractor(200-249hp)CB	Hour	\$135.99	0.06	\$8.35		
Field Cultivate Fld_32' with Tractor(180-199hp)CB	Hour	\$136.80	0.05	\$6.38	\$64.45	_____

--TOTAL FIXED EXPENSES--					\$117.45	
-----Total expenses per bu \$3.87						
					=====	
RETURNS ABOVE DIRECT EXPENSES					\$251.95	
RETURNS ABOVE TOTAL SPECIFIED EXPENSES					\$134.50	

2024 Corn Cost-Return Budget in South Central Kansas

----- - LOW YIELDS

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Budget abstract

Date: Nov-01-2023

item	unit	price	quantity	amount	Sub-total	your farm
INCOME						
Product						
Corn - South Central KS	bu	\$5.09	88.00	\$447.96	\$447.96	_____

--TOTAL INCOME--					\$447.96	_____
DIRECT EXPENSES						
					\$0.00	_____
Additional labor					\$0.81	_____
Crop insurance					\$22.59	_____
Custom Operations					\$0.00	_____
Diesel					\$16.92	_____
Fertilizers					\$75.29	_____
Herbicides					\$48.51	_____
Miscellaneous					\$7.26	_____
Operator labor					\$8.51	_____
Repair & Maintenance					\$16.88	_____
Seeds					\$52.92	_____
Interest on operating capital		8% percent on direct expenses			\$9.99	_____

--TOTAL DIRECT EXPENSES--					\$259.67	_____
-----Total direct expenses per bu \$2.95						
FIXED EXPENSES						
Cash rent					\$53.00	_____
Capital recovery (depreciation + interest)					\$64.45	_____

--TOTAL FIXED EXPENSES--					\$117.45	_____
-----Total expenses per bu \$4.29						
RETURNS ABOVE DIRECT EXPENSES					=====	
					\$188.30	
RETURNS ABOVE TOTAL SPECIFIED EXPENSES						
					\$70.85	

2024 Corn Cost-Return Budget in South Central Kansas

----- HIGH YIELDS

Gregg Ibendahl, Daniel O'Brien, Sarah Lancaster, and Douglas Shoup

Budget abstract

Date: Nov-01-2023

item	unit	price	quantity	amount	Sub-total	your farm
INCOME						
Product						
Corn - South Central KS	bu	\$5.09	132.00	\$671.95	\$671.95	_____

--TOTAL INCOME--					\$671.95	_____
DIRECT EXPENSES						
					\$0.00	_____
Additional labor	-----				\$0.81	_____
Crop insurance	-----				\$22.59	_____
Custom Operations	-----				\$0.00	_____
Diesel	-----				\$16.92	_____
Fertilizers	-----				\$105.43	_____
Herbicides	-----				\$48.51	_____
Miscellaneous	-----				\$7.26	_____
Operator labor	-----				\$8.51	_____
Repair & Maintenance	-----				\$16.88	_____
Seeds	-----				\$79.38	_____
Interest on operating capital		8% percent on direct expenses		\$12.25	_____	

--TOTAL DIRECT EXPENSES--					\$318.53	
-----Total direct expenses per bu \$2.41						
FIXED EXPENSES						
Cash rent	-----				\$53.00	_____
Capital recovery (depreciation + interest)	-----				\$64.45	_____

--TOTAL FIXED EXPENSES--					\$117.45	
-----Total expenses per bu \$3.3						
					=====	
RETURNS ABOVE DIRECT EXPENSES					\$353.41	
RETURNS ABOVE TOTAL SPECIFIED EXPENSES					\$235.96	