

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					
		\$37.88	\$39.98	\$42.09	\$44.19	\$46.29	
		=====	=====	=====	=====	=====	
	14.5 ll	\$243	\$273	\$304	\$334	\$365	Low yield
Yields	18.0 ll	\$138	\$175	\$213	\$251	\$289	Middle yield
	21.5 ll	\$416	\$461	\$506	\$551	\$597	High yield

TABLE 2. RETURNS OVER TOTAL COSTS

		Prices					
		\$37.88	\$39.98	\$42.09	\$44.19	\$46.29	
		=====	=====	=====	=====	=====	
	14.5 ll	\$85	\$116	\$146	\$177	\$207	Low yield
Yields	18.0 ll	-\$20	\$18	\$56	\$94	\$132	Middle yield
	21.5 ll	\$258	\$304	\$349	\$394	\$439	High yield

2024 Corn Silage Cost-Return Budget in Northeast Kansas

----- MIDDLE YIELDS

Gregg Ibendahl, Daniel O'Brien, Sarah Lancaster, and Stewart Duncan

Budget abstract

Date: Nov-01-2023

item	unit	price	quantity	amount	Sub-total	your farm
INCOME						
Product						
Corn Silage - Northeast KS	ton	\$42.09	18.00	\$757.53	\$757.53	_____

--TOTAL INCOME--					\$757.53	_____
DIRECT EXPENSES						
Additional labor					\$1.27	_____
Crop insurance					\$26.30	_____
Custom Operations					\$184.19	_____
Diesel					\$4.62	_____
Fertilizers					\$154.36	_____
Herbicides					\$46.01	_____
Miscellaneous					\$10.28	_____
Operator labor					\$2.89	_____
Repair & Maintenance					\$5.13	_____
Seeds					\$88.20	_____
Interest on operating capital			8% percent on direct expenses		\$20.93	_____

--TOTAL DIRECT EXPENSES--					\$544.17	
-----Total direct expenses per ton		\$30.23				
FIXED EXPENSES						
Cash rent					\$139.00	_____
Capital recovery (depreciation + interest)					\$18.42	_____

--TOTAL FIXED EXPENSES--					\$157.42	
-----Total expenses per ton		\$38.98				
RETURNS ABOVE DIRECT EXPENSES					\$213.36	
RETURNS ABOVE TOTAL SPECIFIED EXPENSES					\$55.94	

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----- MIDDLE YIELDS

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Summary page(s)

Date: Nov-01-2023

item	unit	price	quantity	amount	Sub-total	your farm
INCOME						
Product						
Corn Silage - Northeast KS	ton	\$42.09	18.00	\$757.53	\$757.53	_____

--TOTAL INCOME--					\$757.53	_____
DIRECT EXPENSES						
Additional labor						
Fertilizer application				\$0.14		
Planting				\$0.74		
Spraying				\$0.40	\$1.27	_____
Crop insurance						
-----				\$26.30	\$26.30	_____
Custom Operations						
Fertilizer application				\$18.18		
Silage				\$166.02	\$184.19	_____
Diesel						
Fertilizer application				\$0.84		
Planting				\$1.90		
Spraying				\$1.88	\$4.62	_____
Fertilizers						
Pre-plant				\$82.27		
Nitrogen	lbs	\$0.50	157.00	\$78.89		
Phosphorus	lbs	\$0.64	51.00	\$32.40		
Potassium	lbs	\$0.43	65.00	\$28.07		
Lime	lbs	\$0.03	500.00	\$15.00	\$154.36	_____
Herbicides						
Burndown				\$13.81		
Post-emergence				\$5.53		
Pre-emergence				\$26.66	\$46.01	_____
Miscellaneous						
-----				\$10.28	\$10.28	_____
Operator labor						
Fertilizer application				\$0.44		
Planting				\$1.18		
Spraying				\$1.27	\$2.89	_____
Repair & Maintenance						
Fertilizer application				\$1.43		
Planting				\$2.97		
Spraying				\$0.74	\$5.13	_____
Seeds						
-----				\$88.20	\$88.20	_____
Interest on operating capital		8% percent on direct expenses		\$20.93	\$20.93	_____
--TOTAL DIRECT EXPENSES--					\$544.17	-----
-----Total direct expenses per ton \$30.23						
FIXED EXPENSES						
Cash rent				\$139.00	\$139.00	_____

2024 Corn Silage Cost-Return Budget in Northeast Kansas

----- MIDDLE YIELDS

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Summary page(s)

Date: Nov-01-2023

item	unit	price	quantity	amount	Sub-total	your farm
Capital recovery (depreciation + interest)						
Fertilizer application -----				\$3.68		
Planting -----				\$9.01		
Spraying -----				\$5.73	\$18.42	_____

--TOTAL FIXED EXPENSES--					\$157.42	
-----Total expenses per ton \$38.98						
					=====	
RETURNS ABOVE DIRECT EXPENSES					\$213.36	
RETURNS ABOVE TOTAL SPECIFIED EXPENSES					\$55.94	

2024 Corn Silage Cost-Return Budget in Northeast Kansas

----- MIDDLE YIELDS

Detailed budget page(s)

Gregg Ibendahl, Daniel O'Brien, Sarah Lancaster, and Stewart Duncan

Date: Nov-01-2023

item	unit	price	quantity	amount	Sub-total	your farm
INCOME						
Product						
Corn Silage - Northeast KS	ton	\$42.09	18.00	\$757.53	\$757.53	_____
Other						
Govt payments, indemnity payments, etc.						_____
--TOTAL INCOME--					\$757.53	_____
DIRECT EXPENSES						
Additional labor						
Fertilizer application						
Nutrient applicator_60 ft with Tractor(200-249hp)CB	hour	\$15.00	0.01	\$0.14		
Planting						
NT Plant-Folding_16R-30 with Tractor(180-199hp)CB	hour	\$15.00	0.05	\$0.74		
Spraying						
Sprayer 600-750gal_60' 175hp with Sprayer 600-750gal	hour	\$15.00	0.03	\$0.40	\$1.27	_____
Crop insurance						

Corn-silage_NE_Dry	acre	\$26.30	1.00	\$26.30	\$26.30	_____
Custom Operations						
Fertilizer application						
Application of Anhydrous Ammonia	acre	\$18.18	1.00	\$18.18		
Silage						
Field chopping and hauling only	ton	\$9.22	18.00	\$166.02	\$184.19	_____
Diesel						
Fertilizer application						
Nutrient applicator_60 ft with Tractor(200-249hp)CB	gal	\$3.95	0.21	\$0.84		
Planting						
NT Plant-Folding_16R-30 with Tractor(180-199hp)CB	gal	\$3.95	0.48	\$1.90		
Spraying						
Sprayer 600-750gal_60' 175hp with Sprayer 600-750gal	gal	\$3.95	0.48	\$1.88	\$4.62	_____
Fertilizers						
Pre-plant						
Lime	lb	\$0.03	500.00	\$15.00		
MAP (11-52-0)	ton	\$0.40	98.00	\$39.20		
Potash	lb	\$0.26	109.00	\$28.07		
Side-dressed						
Anhydrous	lb	\$0.41	178.00	\$72.09	\$154.36	_____
- - - ACTUAL POUNDS - 157 lb - N, 51 lb - P, 65 lb - K						
Herbicides						
Burndown						
Glyphosate	oz	\$0.43	32.00	\$13.81		
Post-emergence						
2,4-D LV Ester	oz	\$0.18	8.00	\$1.44		
Atrazine 4L	oz	\$0.17	24.00	\$4.09		
Pre-emergence						
Bicep II Magnum	oz	\$0.36	40.00	\$14.33		
Zidua SC	oz	\$6.16	2.00	\$12.33	\$46.01	_____
Miscellaneous						

Corn-silage_NE_Dry	acre	\$10.28	1.00	\$10.28	\$10.28	_____
Operator labor						
Fertilizer application						

2024 Corn Silage Cost-Return Budget in Northeast Kansas

----- MIDDLE YIELDS

Detailed budget page(s)

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Date: Nov-01-2023

item	unit	price	quantity	amount	Sub-total	your farm
Nutrient applicator_60 ft with Tractor(200-249hp)CB	hour	\$20.00	0.02	\$0.44		
Planting						
NT Plant-Folding_16R-30 with Tractor(180-199hp)CB	hour	\$20.00	0.06	\$1.18		
Spraying						
Sprayer 600-750gal_60' 175hp with Sprayer 600-750gal	hour	\$20.00	0.06	\$1.27	\$2.89	_____
Repair & Maintenance						
Fertilizer application						
Nutrient applicator_60 ft with Tractor(200-249hp)CB	Hour	\$77.85	0.02	\$1.43		
Planting						
NT Plant-Folding_16R-30 with Tractor(180-199hp)CB	Hour	\$60.45	0.05	\$2.97		
Spraying						
Sprayer 600-750gal_60' 175hp with Sprayer 600-750gal	Hour	\$41.79	0.02	\$0.74	\$5.13	_____
Seeds						

Corn - Roundup ready	1K seeds	\$3.15	28.00	\$88.20	\$88.20	_____
Interest on operating capital				8% percent on direct expenses \$20.93	\$20.93	_____
--TOTAL DIRECT EXPENSES--					\$544.17	
-----Total direct expenses per ton \$30.23						
FIXED EXPENSES						
Cash rent						

All crops_NE_Dry	acre	\$139.00	1.00	\$139.00	\$139.00	_____
Capital recovery (depreciation + interest)						
Fertilizer application						
Nutrient applicator_60 ft with Tractor(200-249hp)CB	Hour	\$200.66	0.02	\$3.68		
Planting						
NT Plant-Folding_16R-30 with Tractor(180-199hp)CB	Hour	\$183.54	0.05	\$9.01		
Spraying						
Sprayer 600-750gal_60' 175hp with Sprayer 600-750gal	Hour	\$324.95	0.02	\$5.73	\$18.42	_____
--TOTAL FIXED EXPENSES--					\$157.42	
-----Total expenses per ton \$38.98						
RETURNS ABOVE DIRECT EXPENSES					\$213.36	
RETURNS ABOVE TOTAL SPECIFIED EXPENSES					\$55.94	

2024 Corn Silage Cost-Return Budget in Northeast 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 Silage - Northeast KS	ton	\$42.09	14.50	\$610.24	\$610.24	_____

--TOTAL INCOME--					\$610.24	_____
DIRECT EXPENSES						
Additional labor	-----				\$1.27	_____
Crop insurance	-----				\$26.30	_____
Custom Operations	-----				\$0.00	_____
Diesel	-----				\$4.62	_____
Fertilizers	-----				\$127.26	_____
Herbicides	-----				\$46.01	_____
Miscellaneous	-----				\$10.28	_____
Operator labor	-----				\$2.89	_____
Repair & Maintenance	-----				\$5.13	_____
Seeds	-----				\$71.05	_____
Interest on operating capital		8% percent on direct expenses		\$11.79	_____	

--TOTAL DIRECT EXPENSES--					\$306.60	
-----Total direct expenses per ton \$21.14						
FIXED EXPENSES						
Cash rent	-----				\$139.00	_____
Capital recovery (depreciation + interest)	-----				\$18.42	_____

--TOTAL FIXED EXPENSES--					\$157.42	
-----Total expenses per ton \$32						
					=====	
RETURNS ABOVE DIRECT EXPENSES					\$303.64	
RETURNS ABOVE TOTAL SPECIFIED EXPENSES					\$146.22	

2024 Corn Silage Cost-Return Budget in Northeast Kansas

----- - HIGH YIELDS

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Budget abstract

Date: Nov-01-2023

item	unit	price	quantity	amount	Sub-total	your farm
INCOME						
Product						
Corn Silage - Northeast KS	ton	\$42.09	21.50	\$904.83	\$904.83	_____

--TOTAL INCOME--					\$904.83	_____
DIRECT EXPENSES						
Additional labor					\$1.27	_____
Crop insurance					\$26.30	_____
Custom Operations					\$0.00	_____
Diesel					\$4.62	_____
Fertilizers					\$181.45	_____
Herbicides					\$46.01	_____
Miscellaneous					\$10.28	_____
Operator labor					\$2.89	_____
Repair & Maintenance					\$5.13	_____
Seeds					\$105.35	_____
Interest on operating capital			8% percent on direct expenses		\$15.33	_____

--TOTAL DIRECT EXPENSES--					\$398.63	
-----Total direct expenses per ton \$18.54						
FIXED EXPENSES						
Cash rent					\$139.00	_____
Capital recovery (depreciation + interest)					\$18.42	_____

--TOTAL FIXED EXPENSES--					\$157.42	
-----Total expenses per ton \$25.86						
					=====	
RETURNS ABOVE DIRECT EXPENSES					\$506.20	
RETURNS ABOVE TOTAL SPECIFIED EXPENSES					\$348.78	