

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					
		\$225.00	\$237.50	\$250.00	\$262.50	\$275.00	
		=====					
Yields	3.1 ll	\$559	\$597	\$636	\$675	\$714	Low yield
	3.6 ll	\$501	\$546	\$591	\$636	\$681	Middle yield
	4.1 ll	\$754	\$805	\$856	\$907	\$959	High yield

TABLE 2. RETURNS OVER TOTAL COSTS

		Prices					
		\$225.00	\$237.50	\$250.00	\$262.50	\$275.00	
		=====					
Yields	3.1 ll	\$492	\$530	\$569	\$608	\$647	Low yield
	3.6 ll	\$434	\$479	\$524	\$569	\$614	Middle yield
	4.1 ll	\$686	\$738	\$789	\$840	\$891	High yield

2024 Alfalfa Cost-Return Budget in South Central and Southeast 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						
Alfalfa - Southeast KS	ton	\$250.00	3.60	\$900.00	\$900.00	_____

--TOTAL INCOME--					\$900.00	_____
DIRECT EXPENSES						
Additional labor					\$0.58	_____
Custom Operations					\$149.23	_____
Diesel					\$4.26	_____
Fertilizers					\$88.10	_____
Herbicides					\$1.74	_____
Insecticides					\$14.49	_____
Miscellaneous					\$6.65	_____
Operator labor					\$2.23	_____
Repair & Maintenance					\$3.67	_____
Seeds					\$26.25	_____
Interest on operating capital			8% percent on direct expenses		\$11.89	_____

--TOTAL DIRECT EXPENSES--					\$309.10	
-----Total direct expenses per ton					\$85.86	
FIXED EXPENSES						
Cash rent					\$53.00	_____
Capital recovery (depreciation + interest)					\$14.05	_____

--TOTAL FIXED EXPENSES--					\$67.05	
-----Total expenses per ton					\$104.49	
					=====	
RETURNS ABOVE DIRECT EXPENSES					\$590.90	
RETURNS ABOVE TOTAL SPECIFIED EXPENSES					\$523.85	

2024 Alfalfa Cost-Return Budget in South Central and Southeast Kansas

----- MIDDLE YIELDS

Summary 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						
Alfalfa - Southeast KS	ton	\$250.00	3.60	\$900.00	\$900.00	_____

--TOTAL INCOME--					\$900.00	_____
DIRECT EXPENSES						
Additional labor						
Fertilizer application	-----			\$0.14		
Planting	-----			\$0.25		
Spraying	-----			\$0.20	\$0.58	_____
Custom Operations						
Hay	-----			\$149.23	\$149.23	_____
Diesel						
Fertilizer application	-----			\$0.84		
Planting	-----			\$0.63		
Spraying	-----			\$1.34		
Tillage	-----			\$1.45	\$4.26	_____
Fertilizers						
Nitrogen	lbs	\$0.63	11.00	\$6.93		
Phosphorus	lbs	\$0.64	52.00	\$33.07		
Potassium	lbs	\$0.43	89.00	\$38.11		
Lime	lbs	\$0.03	333.00	\$9.99	\$88.10	_____
Herbicides						
-----	-----			\$1.74	\$1.74	_____
Insecticides						
-----	-----			\$14.49	\$14.49	_____
Miscellaneous						
-----	-----			\$6.65	\$6.65	_____
Operator labor						
Fertilizer application	-----			\$0.44		
Planting	-----			\$0.39		
Spraying	-----			\$0.63		
Tillage	-----			\$0.76	\$2.23	_____
Repair & Maintenance						
Fertilizer application	-----			\$1.43		
Planting	-----			\$0.82		
Spraying	-----			\$0.41		
Tillage	-----			\$1.01	\$3.67	_____
Seeds						
-----	-----			\$26.25	\$26.25	_____
Interest on operating capital		8% percent on direct expenses		\$11.89	\$11.89	_____
--TOTAL DIRECT EXPENSES--					\$309.10	_____
-----Total direct expenses per ton					\$85.86	
FIXED EXPENSES						
Cash rent						
-----	-----			\$53.00	\$53.00	_____
Capital recovery (depreciation + interest)						

2024 Alfalfa Cost-Return Budget in South Central and Southeast Kansas

----- MIDDLE YIELDS

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Date: Nov-01-2023

item	unit	price	quantity	amount	Sub-total	your farm
Fertilizer application -----				\$3.68		
Planting -----				\$2.60		
Spraying -----				\$3.22		
Tillage -----				\$4.56	\$14.05	_____
--TOTAL FIXED EXPENSES--					\$67.05	
-----Total expenses per ton \$104.49						
RETURNS ABOVE DIRECT EXPENSES					\$590.90	
RETURNS ABOVE TOTAL SPECIFIED EXPENSES					\$523.85	

2024 Alfalfa Cost-Return Budget in South Central and Southeast Kansas

Detailed budget page(s)

----- MIDDLE YIELDS

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						
Alfalfa - Southeast KS	ton	\$250.00	3.60	\$900.00	\$900.00	_____
Other						
Govt payments, indemnity payments, etc.						_____
--TOTAL INCOME--					\$900.00	_____
DIRECT EXPENSES						
Additional labor						
Fertilizer application						
Nutrient applicator_60 ft with Tractor(200-249hp)CB	hour	\$15.00	0.01	\$0.14		
Planting						
NT Grain Drill_24' with Tractor(180-199hp)CB	hour	\$15.00	0.02	\$0.25		
Spraying						
Sprayer 800gal_80' 250hp with Sprayer 800gal	hour	\$15.00	0.01	\$0.20	\$0.58	_____
Custom Operations						
Hay						
Baling - Large Round Bales, over 1,500 lb with net	bale	\$18.09	4.80	\$86.82		
Side Raking	acre	\$5.77	3.00	\$17.31		
Swathing and Conditioning	acre	\$15.03	3.00	\$45.10	\$149.23	_____
Diesel						
Fertilizer application						
Nutrient applicator_60 ft with Tractor(200-249hp)CB	gal	\$3.95	0.21	\$0.84		
Planting						
NT Grain Drill_24' with Tractor(180-199hp)CB	gal	\$3.95	0.16	\$0.63		
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	0.28	\$1.12		
Field Cultivate Fld_42' with Tractor(200-249hp)CB	gal	\$3.95	0.08	\$0.33	\$4.26	_____
Fertilizers						

Lime	lb	\$0.03	333.00	\$9.99		
MAP (11-52-0)	lb	\$0.40	100.00	\$40.00		
Potash	lb	\$0.26	148.00	\$38.11	\$88.10	_____
- - - ACTUAL POUNDS - 11 lb - N, 52 lb - P, 89 lb - K						
Herbicides						

Karmex DF	lb	\$5.11	0.34	\$1.74	\$1.74	_____
Insecticides						

Lorsban 4E	pt	\$7.25	2.00	\$14.49	\$14.49	_____
Miscellaneous						

Alfalfa_SW_Dry	acre	\$6.65	1.00	\$6.65	\$6.65	_____
Operator labor						
Fertilizer application						
Nutrient applicator_60 ft with Tractor(200-249hp)CB	hour	\$20.00	0.02	\$0.44		
Planting						
NT Grain Drill_24' with Tractor(180-199hp)CB	hour	\$20.00	0.02	\$0.39		
Spraying						
Sprayer 800gal_80' 250hp with Sprayer 800gal	hour	\$20.00	0.03	\$0.63		

2024 Alfalfa Cost-Return Budget in South Central and Southeast Kansas

Detailed budget page(s)

----- MIDDLE YIELDS

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Date: Nov-01-2023

item	unit	price	quantity	amount	Sub-total	your farm
Tillage						
Disk Harrow_32' with Tractor(200-249hp)CB	hour	\$20.00	0.03	\$0.59		
Field Cultivate Fld_42' with Tractor(200-249hp)CB	hour	\$20.00	0.01	\$0.17	\$2.23	_____
Repair & Maintenance						
Fertilizer application						
Nutrient applicator_60 ft with Tractor(200-249hp)CB	Hour	\$77.85	0.02	\$1.43		
Planting						
NT Grain Drill_24' with Tractor(180-199hp)CB	Hour	\$9.97	0.08	\$0.82		
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	\$13.20	0.06	\$0.81		
Field Cultivate Fld_42' with Tractor(200-249hp)CB	Hour	\$5.73	0.04	\$0.20	\$3.67	_____
Seeds						

Alfalfa - Roundup Ready	lb	\$8.75	3.00	\$26.25	\$26.25	_____
Interest on operating capital	8% percent on direct expenses			\$11.89	\$11.89	_____
--TOTAL DIRECT EXPENSES--					\$309.10	
-----Total direct expenses per ton \$85.86						
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		
Planting						
NT Grain Drill_24' with Tractor(180-199hp)CB	Hour	\$31.74	0.08	\$2.60		
Spraying						
Sprayer 800gal_80' 250hp with Sprayer 800gal	Hour	\$243.29	0.01	\$3.22		
Tillage						
Disk Harrow_32' with Tractor(200-249hp)CB	Hour	\$54.40	0.06	\$3.34		
Field Cultivate Fld_42' with Tractor(200-249hp)CB	Hour	\$34.36	0.04	\$1.22	\$14.05	_____
--TOTAL FIXED EXPENSES--					\$67.05	
-----Total expenses per ton \$104.49						
RETURNS ABOVE DIRECT EXPENSES					\$590.90	
RETURNS ABOVE TOTAL SPECIFIED EXPENSES					\$523.85	

2024 Alfalfa Cost-Return Budget in South Central and Southeast Kansas

----- - LOW YIELDS

Budget abstract

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						
Alfalfa - Southeast KS	ton	\$250.00	3.10	\$775.00	\$775.00	_____

--TOTAL INCOME--					\$775.00	_____
DIRECT EXPENSES						
Additional labor					\$0.58	_____
Custom Operations					\$0.00	_____
Diesel					\$4.26	_____
Fertilizers					\$77.25	_____
Herbicides					\$1.74	_____
Insecticides					\$14.49	_____
Miscellaneous					\$6.65	_____
Operator labor					\$2.23	_____
Repair & Maintenance					\$3.67	_____
Seeds					\$22.60	_____
Interest on operating capital			8% percent on direct expenses		\$5.34	_____

--TOTAL DIRECT EXPENSES--					\$138.82	
-----Total direct expenses per ton					\$44.78	
FIXED EXPENSES						
Cash rent					\$53.00	_____
Capital recovery (depreciation + interest)					\$14.05	_____

--TOTAL FIXED EXPENSES--					\$67.05	
-----Total expenses per ton					\$66.41	
RETURNS ABOVE DIRECT EXPENSES					\$636.18	
RETURNS ABOVE TOTAL SPECIFIED EXPENSES					\$569.13	

2024 Alfalfa Cost-Return Budget in South Central and Southeast 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						
Alfalfa - Southeast KS	ton	\$250.00	4.10	\$1,025.00	\$1,025.00	_____

--TOTAL INCOME--					\$1,025.00	_____
DIRECT EXPENSES						
Additional labor					\$0.58	_____
Custom Operations					\$0.00	_____
Diesel					\$4.26	_____
Fertilizers					\$98.95	_____
Herbicides					\$1.74	_____
Insecticides					\$14.49	_____
Miscellaneous					\$6.65	_____
Operator labor					\$2.23	_____
Repair & Maintenance					\$3.67	_____
Seeds					\$29.90	_____
Interest on operating capital			8% percent on direct expenses		\$6.50	_____

--TOTAL DIRECT EXPENSES--					\$168.97	_____
-----Total direct expenses per ton					\$41.21	
FIXED EXPENSES						
Cash rent					\$53.00	_____
Capital recovery (depreciation + interest)					\$14.05	_____

--TOTAL FIXED EXPENSES--					\$67.05	_____
-----Total expenses per ton					\$57.57	
RETURNS ABOVE DIRECT EXPENSES					\$856.03	=====
RETURNS ABOVE TOTAL SPECIFIED EXPENSES					\$788.98	=====