

2020 Irrigated Forage Sorghum Silage (Center-Pivot) Cost-Return Budget

-----Western Kansas - Average Yield

Gregg Ibendahl, Dan O'Brien, John Holman, and Lucas Haag

Budget date: Oct-31-2019

item	unit	price	quantity	amount	Sub-total	your farm
INCOME						
Product						
Forage Sorghum Silage - Western KS	ton	\$26.08	22.00	\$573.72	\$573.72	_____

--TOTAL INCOME--					\$573.72	_____
EXPENSES						
Fertilizers						
Nitrogen	lb	\$0.28	389.18	\$110.92		
Phosphorus	lb	\$0.39	122.82	\$47.45	\$158.37	_____
Herbicides						
Post-emergence					\$17.06	\$17.06 _____
Seeds						
						\$19.93 _____
Crop insurance						
						\$24.31 _____
Miscellaneous						
						\$10.00 _____
Crop consulting						
						\$6.25 _____
Labor (beyond custom field operations)						
						\$25.20 _____
Custom Field Operations						
Fertilizer application					\$14.82	
Harvesting					\$198.28	
Planting					\$18.57	
Spraying					\$5.89	
Tillage					\$36.40	\$273.95 _____
Natural Gas						
						\$35.09 _____
Repair & Maintenance						
						\$3.96 _____
Interest on operating capital						
					\$17.22	\$17.22 _____
Depreciation						
						\$76.67 _____
Interest on durable equipment						
						\$59.22 _____
Cash rent						
						\$121.00 _____

--TOTAL SPECIFIED EXPENSES--					\$848.24	_____
					=====	
RETURNS ABOVE TOTAL SPECIFIED EXPENSES						-\$274.52 _____

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Detailed budget page(s)

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INCOME						
Product						
Forage Sorghum Silage - Western KS	ton	\$26.08	22.00	\$573.72	\$573.72	_____
Other						
Govt payments, indemnity payments, etc.						_____
--TOTAL INCOME--					\$573.72	_____
DIRECT EXPENSES						
Fertilizers						
B - DAP (18-46-0) (with planter)	lb	\$0.24	267.00	\$62.83		
C - Anhydrous (1)	lb	\$0.23	416.00	\$95.54	\$158.37	_____
--- ACTUAL POUNDS - 389 N, 123 P, 0 K						
Herbicides						
C - Bicep II Magnum (1)	oz	\$0.36	48.00	\$17.06	\$17.06	_____
Seeds						
Milo (base)	lb	\$1.81	11.00	\$19.93	\$19.93	_____
Crop insurance						
Forage Sorghum Silage_West_Irr	acre	\$24.31	1.00	\$24.31	\$24.31	_____
Miscellaneous						
Forage Sorghum Silage_West_Irr	acre	\$10.00	1.00	\$10.00	\$10.00	_____
Crop consulting						
Forage Sorghum Silage_West_Irr	acre	\$6.25	1.00	\$6.25	\$6.25	_____
Labor (beyond custom field operations)						
Additional labor	hour	\$15.00	1.20	\$18.00		
Irrigation labor	hour	\$15.00	0.48	\$7.20	\$25.20	_____
Custom Field Operations						
FERTAPP-NH3 application	acre	\$14.82	1.00	\$14.82		
HARVEST-Silage (base)	ton	\$9.40	21.10	\$198.28		
PLANT-Milo, reg-till planting	acre	\$18.57	1.00	\$18.57		
SPRAY-Ground herbicide	acre	\$5.89	1.00	\$5.89		
TILL-Chisel 4-12 in	acre	\$13.63	1.00	\$13.63		
TILL-Disk	acre	\$11.93	1.00	\$11.93		
TILL-Field cultivate	acre	\$10.84	1.00	\$10.84	\$273.95	_____
Natural Gas						
Well, pump, and gearhead	ac-in	\$2.92	12.00	\$35.09	\$35.09	_____
Repair & Maintenance						
Well, pump, and gearhead	ac-in	\$0.33	12.00	\$3.96	\$3.96	_____
Other						
Crop consulting, drying, etc.						_____
Interest on operating capital						
			6.0% on direct expenses	\$17.22	\$17.22	_____
--TOTAL DIRECT EXPENSES--					\$591.35	_____
-----Direct expense per ton					\$26.88	
FIXED EXPENSES						
Depreciation						
Irrigation - Center Pivot	acre	\$22.43	1.00	\$22.43		
Power unit	acre	\$17.60	1.00	\$17.60		

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Well, pump, and gearhead	acre	\$36.64	1.00	\$36.64	\$76.67	_____
Interest on durable equipment						
Irrigation - Center Pivot	acre	\$28.04	1.00	\$28.04		
Power unit	acre	\$3.70	1.00	\$3.70		
Well, pump, and gearhead	acre	\$27.48	1.00	\$27.48	\$59.22	_____
Cash rent						
All crops_West_irr	acre	\$121.00	1.00	\$121.00	\$121.00	_____
--TOTAL FIXED EXPENSES--					-----	
					\$256.89	_____
--TOTAL SPECIFIED EXPENSES--						
-----Total expenses per ton \$38.56					\$848.24	_____
RETURNS ABOVE DIRECT EXPENSES					=====	
					-\$17.64	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES						
					-\$274.52	_____

12 acre-inches of water applied
 300 foot well depth
 \$ 2.92 fuel cost per acre-inch of water applied
 .71 Mcf of natural gas per acre-inch of water applied
 \$ 4.1 per Mcf for cost of natural gas
 8.56 Mcf of fuel used in total