

2020 Irrigated Corn Silage (center-pivot) Cost-Return Budget

-----Western Kansas (ave yields)
 Gregg Ibendahl, Dan O'Brien, Lucas Haag, and John Holman

Budget date: Oct-31-2019

item	unit	price	quantity	amount	Sub-total	your farm
INCOME						
Product						
Corn Silage - Western KS	ton	\$32.60	27.00	\$880.13	\$880.13	_____

--TOTAL INCOME--					\$880.13	_____
EXPENSES						
Fertilizers						
Nitrogen	lb	\$0.28	311.38	\$88.51		
Phosphorus	lb	\$0.39	83.26	\$32.17	\$120.68	_____
Herbicides						
Burndown				\$8.46		
Post-emergence				\$1.61		
Pre-emergence				\$46.96	\$57.03	_____
Seeds					\$119.43	_____
Crop insurance					\$25.03	_____
Miscellaneous					\$10.00	_____
Fungicides					\$20.92	_____
Crop consulting					\$6.50	_____
Labor (beyond custom field operations)					\$27.00	_____
Custom Field Operations						
Fertilizer application				\$15.98		
Harvesting				\$253.72		
Planting				\$18.21		
Spraying				\$20.61		
Tillage				\$17.55	\$326.07	_____
Natural Gas					\$43.86	_____
Repair & Maintenance					\$4.95	_____
Interest on operating capital		6.0% on direct expenses		\$22.84	\$22.84	_____
Depreciation					\$76.67	_____
Interest on durable equipment					\$59.22	_____
Cash rent					\$121.00	_____

--TOTAL SPECIFIED EXPENSES--					\$1041.20	_____
					=====	
RETURNS ABOVE TOTAL SPECIFIED EXPENSES						
					-\$161.07	_____

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INCOME						
Product						
Corn Silage - Western KS	ton	\$32.60	27.00	\$880.13	\$880.13	_____
Other						
Govt payments, indemnity payments, etc.						_____

--TOTAL INCOME--					\$880.13	_____
DIRECT EXPENSES						
Fertilizers						
B - DAP (18-46-0) (with planter)	lb	\$0.24	181.00	\$42.59		
C - Anhydrous (1)	lb	\$0.23	340.00	\$78.09	\$120.68	_____
--- ACTUAL POUNDS - 311 N, 83 P, 0 K						
Herbicides						
A - 2, 4-D LV Ester (1)	oz	\$0.15	8.00	\$1.20		
A - Dicamba	oz	\$0.34	12.00	\$4.05		
A - Glyphosate generic	oz	\$0.10	32.00	\$3.21		
B - Atrazine 4L (1)	qt	\$3.60	1.50	\$5.40		
B - Covrus	oz	\$7.42	5.60	\$41.56		
C - Glyphosate generic (.5)	oz	\$0.10	16.00	\$1.61	\$57.03	_____
Seeds						
Corn - Roundup ready, insect control, & rootworm control	1K seeds	\$3.73	32.00	\$119.43	\$119.43	_____
Crop insurance						
Corn-silage_West_Irr	acre	\$25.03	1.00	\$25.03	\$25.03	_____
Miscellaneous						
Corn-silage_West_Irr	acre	\$10.00	1.00	\$10.00	\$10.00	_____
Fungicides						
Headline (1)	oz	\$2.65	5.25	\$13.90		
Quilt,Xcel	oz	\$1.34	5.25	\$7.01	\$20.92	_____
Crop consulting						
Corn-silage_West_Irr	acre	\$6.50	1.00	\$6.50	\$6.50	_____
Labor (beyond custom field operations)						
Additional labor	hour	\$15.00	1.20	\$18.00		
Irrigation labor	hour	\$15.00	0.60	\$9.00	\$27.00	_____
Custom Field Operations						
FERTAPP-NH3 application	acre	\$15.98	1.00	\$15.98		
HARVEST-Silage (base)	ton	\$9.40	27.00	\$253.72		
PLANT-Corn, reg-till planting	acre	\$18.21	1.00	\$18.21		
SPRAY-Ground herbicide	acre	\$5.88	2.50	\$14.69		
SPRAY-Ground insecticide	acre	\$5.91	1.00	\$5.91		
TILL-Cultivating ridge-till	acre	\$17.55	1.00	\$17.55	\$326.07	_____
Natural Gas						
Well, pump, and gearhead	ac-in	\$2.92	15.00	\$43.86	\$43.86	_____
Repair & Maintenance						
Well, pump, and gearhead	ac-in	\$0.33	15.00	\$4.95	\$4.95	_____
Other						
Crop consulting, drying, etc.						_____
Interest on operating capital			6.0% on direct expenses	\$22.84	\$22.84	_____

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item	unit	price	quantity	amount	Sub-total	your farm
--TOTAL DIRECT EXPENSES--					\$784.32	_____
-----Direct expense per ton \$29.05						
FIXED EXPENSES						
Depreciation						
Irrigation - Center Pivot	acre	\$22.43	1.00	\$22.43		
Power unit	acre	\$17.60	1.00	\$17.60		
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--					\$1041.20	_____
-----Total expenses per ton \$38.56						
RETURNS ABOVE DIRECT EXPENSES					\$95.82	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES					-\$161.07	_____

15 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
 10.7 Mcf of fuel used in total