

2020 Irrigated Alfalfa (Center-Pivot) Cost-Return Budget

-----Western Kansas - Average yields
 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						
Alfalfa - Western KS	ton	\$152.50	5.70	\$869.25	\$869.25	_____

--TOTAL INCOME--					\$869.25	_____
EXPENSES						
Fertilizers						
Nitrogen	lb	\$0.32	17.38	\$5.56		
Phosphorus	lb	\$0.37	82.16	\$30.79	\$36.35	_____
Herbicides						
Post-emergence					\$23.78	\$23.78 _____
Insecticides						
						\$8.91 _____
Seeds						
						\$21.09 _____
Crop insurance						
						\$21.38 _____
Miscellaneous						
						\$10.00 _____
Crop consulting						
						\$6.50 _____
Labor (beyond custom field operations)						
						\$29.40 _____
Custom Field Operations						
Fertilizer application				\$5.60		
Hay				\$185.41		
Planting				\$3.60		
Spraying				\$11.79		
Tillage				\$7.81	\$214.21	_____
Natural Gas						
						\$55.56 _____
Repair & Maintenance						
						\$6.27 _____
Interest on operating capital						
			6.0% on direct expenses	\$13.00	\$13.00	_____
Depreciation						
						\$76.67 _____
Interest on durable equipment						
						\$59.22 _____
Cash rent						
						\$121.00 _____

--TOTAL SPECIFIED EXPENSES--					\$703.33	_____
					=====	
RETURNS ABOVE TOTAL SPECIFIED EXPENSES					\$165.92	_____

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Detailed budget page(s)

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item	unit	price	quantity	amount	Sub-total	your farm
INCOME						
Product						
Alfalfa - Western KS	ton	\$152.50	5.70	\$869.25	\$869.25	_____
Other						
Govt payments, indemnity payments, etc.						_____
--TOTAL INCOME--					\$869.25	_____
DIRECT EXPENSES						
Fertilizers						
C - MAP (11-52-0) (1)	lb	\$0.23	158.00	\$36.35	\$36.35	_____
--- ACTUAL POUNDS - 17 N, 82 P, 0 K						
Herbicides						
C - Velpar L (1)	oz	\$0.74	32.00	\$23.78	\$23.78	_____
Insecticides						
Warrior 1EC (1)	oz	\$2.97	3.00	\$8.91	\$8.91	_____
Seeds						
Alfalfa - Roundup Ready	lb	\$7.03	3.00	\$21.09	\$21.09	_____
Crop insurance						
Alfalfa_West_Irr	acre	\$21.38	1.00	\$21.38	\$21.38	_____
Miscellaneous						
Alfalfa_West_Irr	acre	\$10.00	1.00	\$10.00	\$10.00	_____
Crop consulting						
Alfalfa_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	0.76	\$11.40	\$29.40	_____
Custom Field Operations						
FERTAPP-Dry fertilizer	acre	\$5.60	1.00	\$5.60		
HAY-Baling (large round)	bale	\$13.08	7.60	\$99.41		
HAY-Sideraking	acre	\$4.50	4.00	\$18.00		
HAY-Swathing and conditioning	acre	\$17.00	4.00	\$68.00		
PLANT-Alfalfa seeding, reg-till	acre	\$18.01	0.20	\$3.60		
SPRAY-Ground herbicide	acre	\$5.88	1.00	\$5.88		
SPRAY-Ground insecticide	acre	\$5.91	1.00	\$5.91		
TILL-Disk	acre	\$12.97	0.40	\$5.19		
TILL-Field cultivate	acre	\$13.12	0.20	\$2.62	\$214.21	_____
Natural Gas						
Well, pump, and gearhead	ac-in	\$2.92	19.00	\$55.56	\$55.56	_____
Repair & Maintenance						
Well, pump, and gearhead	ac-in	\$0.33	19.00	\$6.27	\$6.27	_____
Other						
Crop consulting, drying, etc.						_____
Interest on operating capital						
			6.0% on direct expenses	\$13.00	\$13.00	_____
--TOTAL DIRECT EXPENSES--					\$446.44	_____
-----Direct expense per ton					\$78.32	

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item	unit	price	quantity	amount	Sub-total	your farm
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--					\$703.33	_____
-----Total expenses per ton \$123.39						
					=====	
RETURNS ABOVE DIRECT EXPENSES					\$422.81	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES					\$165.92	_____

19 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
 13.55 Mcf of fuel used in total