

2020 Irrigated Oil-Type Sunflowers (Center-Pivot) Cost-Return Budget

-----Western Kansas - Average Yield
 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						
Sunflower (Oil-type) - Western KS	cwt	\$18.02	24.00	\$432.60	\$432.60	_____

--TOTAL INCOME--					\$432.60	_____
EXPENSES						
Fertilizers						
Nitrogen	lb	\$0.28	77.88	\$22.17		
Phosphorus	lb	\$0.39	23.00	\$8.89	\$31.06	_____
Herbicides						
Post-emergence				\$18.16		
Pre-emergence				\$31.43	\$49.59	_____
Insecticides						
					\$15.13	_____
Seeds						
					\$34.75	_____
Crop insurance						
					\$24.87	_____
Miscellaneous						
					\$10.00	_____
Crop consulting						
					\$6.50	_____
Labor (beyond custom field operations)						
					\$24.00	_____
Custom Field Operations						
Fertilizer application				\$15.98		
Harvesting				\$42.53		
Hauling				\$11.12		
Planting				\$19.82		
Spraying				\$23.58		
Tillage				\$39.72	\$152.74	_____
Natural Gas						
					\$29.24	_____
Repair & Maintenance						
					\$3.30	_____
Interest on operating capital						
		6.0% on direct expenses		\$11.44	\$11.44	_____
Depreciation						
					\$76.67	_____
Interest on durable equipment						
					\$59.22	_____
Cash rent						
					\$121.00	_____

--TOTAL SPECIFIED EXPENSES--					\$649.50	_____
					=====	
RETURNS ABOVE TOTAL SPECIFIED EXPENSES						-\$216.90 _____

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Detailed budget page(s)

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INCOME						
Product						
Sunflower (Oil-type) - Western KS	cwt	\$18.02	24.00	\$432.60	\$432.60	_____
Other						
Govt payments, indemnity payments, etc.						_____
--TOTAL INCOME--					\$432.60	_____
DIRECT EXPENSES						
Fertilizers						
B - DAP (18-46-0) (with planter)	lb	\$0.24	50.00	\$11.77		
C - Anhydrous (1)	lb	\$0.23	84.00	\$19.29	\$31.06	_____
--- ACTUAL POUNDS - 78 N, 23 P, 0 K						
Herbicides						
B - Prowl H2O (1)	oz	\$0.40	48.00	\$19.18		
B - Spartan Charge	oz	\$2.45	5.00	\$12.25		
C - Beyond (1)	oz	\$4.54	4.00	\$18.16	\$49.59	_____
Insecticides						
Lorsban 4E (2)	oz	\$0.38	24.00	\$9.19		
Warrior 1EC	oz	\$2.97	2.00	\$5.94	\$15.13	_____
Seeds						
Sunflowers - Oil-Type	1K seeds	\$1.48	23.40	\$34.75	\$34.75	_____
Crop insurance						
Sunflower-oil_West_Irr	acre	\$24.87	1.00	\$24.87	\$24.87	_____
Miscellaneous						
Sunflower-confectionary_West_Irr	acre	\$10.00	1.00	\$10.00	\$10.00	_____
Crop consulting						
Sunflower-oil_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	0.40	\$6.00	\$24.00	_____
Custom Field Operations						
FERTAPP-NH3 application	acre	\$15.98	1.00	\$15.98		
HARVEST-Sunflower (base)	acre	\$42.53	1.00	\$42.53		
HARVEST-Sunflowers (no extra harvest charge)	cwt	\$0.00	24.00	\$0.00		
HAUL-Sunflower - hauling	cwt	\$0.46	24.00	\$11.12		
PLANT-Sunflowers, reg-till planting	acre	\$19.82	1.00	\$19.82		
SPRAY-Ground herbicide	acre	\$5.88	2.00	\$11.76		
SPRAY-Ground insecticide	acre	\$5.91	2.00	\$11.82		
TILL-Chisel 4-12 in	acre	\$13.63	1.00	\$13.63		
TILL-Disk	acre	\$12.97	1.00	\$12.97		
TILL-Field cultivate	acre	\$13.12	1.00	\$13.12	\$152.74	_____
Natural Gas						
Well, pump, and gearhead	ac-in	\$2.92	10.00	\$29.24	\$29.24	_____
Repair & Maintenance						
Well, pump, and gearhead	ac-in	\$0.33	10.00	\$3.30	\$3.30	_____
Other						
Crop consulting, drying, etc.						_____

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item	unit	price	quantity	amount	Sub-total	your farm
Interest on operating capital	6.0% on direct expenses			\$11.44	\$11.44	_____
--TOTAL DIRECT EXPENSES--					\$392.61	_____
-----Direct expense per cwt \$16.36						
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--					\$649.50	_____
-----Total expenses per cwt \$27.06						
RETURNS ABOVE DIRECT EXPENSES					\$39.99	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES					-\$216.90	_____

10 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
 7.13 Mcf of fuel used in total