



Northeastern Colorado - Dryland Oil Sunflowers Reduced-Till in Two-Crop in Three-Year Rotation

Estimated Production Costs & Returns

2016

GROSS RECEIPTS FROM PRODUCTION

GROSS RECEIPTS	UNIT	PRICE	YIELD	PER ACRE	PER CWT	YOUR FARM
Sunflowers	cwt	\$16.80	14.75	\$247.80	\$16.80	
Other						
Total Receipts				\$247.80		\$0

DIRECT COSTS

	UNIT	COST PER		PER ACRE	PER CWT	YOUR FARM
		UNIT	QUANTITY			
OPERATING PREHARVEST						
Seed						
Seed	dollars	25.58	1.00	25.58	1.73	
Crop Protection						
Fertilizer	dollars	24.10	1	24.10	1.63	
Herbicide	dollars	44.00	1	44.00	2.98	
Custom Application	dollars	7.00	2	14.00	0.95	
Insecticide	dollars	10.90	1	10.90	0.74	
Crop Insurance	dollars	42.00	1	42.00	2.85	
Custom Aerial Application	dollars	8.00	1	8.00	0.54	
Fuel	dollars	2.01	1	2.01	0.14	
Repair & Maintenance	dollars	2.07	1	2.07	0.14	
Labor	dollars	1.33	1	1.33	0.09	
Interest (6 months @ 6.0%) ²	dollars	6.16	1	6.16	0.42	
Total Pre-Harvest Expenses				\$180.15	\$12.21	\$0.00
HARVEST COSTS						
Fuel	dollars	4.91	1	4.91	0.33	
Repair & Maintenance	dollars	5.06	1	5.06	0.34	
Labor	dollars	1.62	1	1.62	0.11	
Hauling ¹	dollars	3.00	1	3.00	0.20	
Total Harvest Costs				\$14.59	\$0.99	\$0.00
Total Operating Costs				\$194.74	\$13.20	\$0.00
PROPERTY & OWNERSHIP COSTS						
General Farm Overhead	dollars	10.00	1	10.00	0.68	
Machinery Ownership Costs	dollars	22.49	1	22.49	1.52	
Real Estate Taxes	dollars	2.73	1	2.73	0.19	
Total Property & Ownership Costs				\$35.22	\$2.39	\$0.00
TOTAL DIRECT COSTS				\$229.96	\$15.59	\$0.00
NET RECEIPTS BEFORE FACTOR PAYMENTS				\$17.84	\$1.21	\$0.00
FACTOR PAYMENTS						
Land (\$5,000 @ 4%) ³				40.00	2.71	
RETURN TO MANAGEMENT & RISK				(\$22.16)	(\$1.50)	\$0.00

1 Hauling Machinery & Labor Charges= \$0.25/Cwt

2 Interest on Operating Capital is calculated on 1/2 of pre-harvest operating costs at 7%

3 Includes allocation of fallow acres in the rotation

BREAKEVEN ANALYSIS - PER ACRE RETURNS OVER TOTAL DIRECT COSTS (\$/ACRE)

ALTERNATIVE YIELDS		ALTERNATIVE PRICES (\$/cwt)				
		-25%	-10%	10%	25%	
		\$12.60	\$15.12	\$16.80	\$18.48	\$21.00
-25%	11.06	(\$90.57)	(\$62.70)	(\$44.11)	(\$25.53)	\$2.35
-10%	13.28	(\$62.70)	(\$29.24)	(\$6.94)	\$15.36	\$48.82
CWT	14.75	(\$44.11)	(\$6.94)	\$17.84	\$42.62	\$79.79
10%	16.23	(\$25.53)	\$15.36	\$42.62	\$69.88	\$110.77
25%	18.44	\$2.35	\$48.82	\$79.79	\$110.77	\$157.23