



**Northeastern Colorado - Irrigated Oil Sunflowers**

**2016**

**Estimated Production Costs & Returns**

<b>GROSS RECEIPTS FROM PRODUCTION</b>						
GROSS RECEIPTS	UNIT	PRICE	YIELD	PER ACRE	PER CWT	YOUR FARM
Sunflowers	CWT	\$16.80	28.25	\$474.60	\$16.80	
Other						
<b>Total Receipts</b>				<b>\$474.60</b>		<b>\$0</b>

**DIRECT COSTS**

	UNIT	COST PER		PER ACRE	PER CWT	YOUR FARM
		UNIT	QUANTITY			
<b>OPERATING PREHARVEST</b>						
Seed						
Seed	dollars	39.50	1.00	39.50	1.40	
<b>Crop Protection</b>						
Fertilizer	dollars	24.33	1	24.33	0.86	
Herbicide	dollars	45.91	1	45.91	1.63	
Custom Application	dollars	7.00	2	14.00	0.50	
Insecticide	dollars	16.98	1	16.98	0.60	
<b>Irrigation</b>						
Irrigation Energy	dollars	43.02	1	43.02	1.52	
Irrigation Repairs	dollars	11.00	1	11.00	0.39	
Sprinkler Lease	dollars	70.00	1	70.00	2.48	
Crop Insurance	dollars	37.00	1	37.00	1.31	
Custom Aerial Application	dollars	8.05	1	8.05	0.28	
Crop Consultant	dollars	12.00	1	12.00	0.42	
Fuel	dollars	2.74	1	2.74	0.10	
Repair & Maintenance	dollars	1.84	1	1.84	0.07	
Labor	dollars	4.84	1	4.84	0.17	
Interest (6 months @ 6.0%) <sup>2</sup>	dollars	11.54	1	11.54	0.41	
<b>Total Pre-Harvest Expenses</b>				<b>\$342.75</b>	<b>\$12.13</b>	<b>\$0.00</b>
<b>HARVEST COSTS</b>						
Fuel	dollars	4.46	1	4.46	0.16	
Repair & Maintenance	dollars	4.51	1	4.51	0.16	
Labor	dollars	1.08	1	1.08	0.04	
Hauling <sup>1</sup>	dollars	7.06	1	7.06	0.25	
<b>Total Harvest Costs</b>				<b>\$17.11</b>	<b>\$0.61</b>	<b>\$0.00</b>
<b>Total Operating Costs</b>				<b>\$359.86</b>	<b>\$12.74</b>	<b>\$0.00</b>
<b>PROPERTY &amp; OWNERSHIP COSTS</b>						
General Farm Overhead	dollars	10.00	1	10.00	0.35	
Machinery Ownership Costs	dollars	18.34	1	18.34	0.65	
Real Estate Taxes	dollars	11.34	1	11.34	0.40	
<b>Total Property &amp; Ownership Costs</b>				<b>\$39.68</b>	<b>\$1.40</b>	<b>\$0.00</b>
<b>TOTAL DIRECT COSTS</b>				<b>\$399.54</b>	<b>\$14.14</b>	<b>\$0.00</b>
<b>NET RECEIPTS BEFORE FACTOR PAYMENTS</b>				<b>\$75.06</b>	<b>\$2.66</b>	<b>\$0.00</b>
<b>FACTOR PAYMENTS</b>						
Land (\$5,000 @ 4%)				200.00	7.08	
<b>RETURN TO MANAGEMENT &amp; RISK</b>				<b>(\$124.94)</b>	<b>(\$4.42)</b>	<b>\$0.00</b>

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%

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

ALTERNATIVE YIELDS		ALTERNATIVE PRICES (\$/cwt)				
		-25%	-10%	10%	25%	
-25%	21.19	\$12.60	\$15.12	\$16.80	\$18.48	\$21.00
-10%	25.43	(\$132.58)	(\$79.19)	(\$43.59)	(\$7.99)	\$45.40
CWT	28.25	(\$79.19)	(\$15.11)	\$27.60	\$70.31	\$134.39
10%	31.08	(\$43.59)	\$27.60	\$75.06	\$122.52	\$193.71
25%	35.31	(\$7.99)	\$70.31	\$122.52	\$174.73	\$253.04
		\$45.40	\$134.39	\$193.71	\$253.04	\$342.02