



Western - Alfalfa (Furrow Irrigated)

2016

Estimated Production Costs & Returns

GROSS RECEIPTS FROM PRODUCTION

GROSS RECEIPTS	UNIT	PRICE	YIELD	PER ACRE	PER TON	YOUR FARM
Alfalfa Hay	ton	\$140.00	4.2	\$588	\$140.00	
Other						
Total Receipts				\$588		\$0

DIRECT COSTS

	UNIT	COST PER UNIT	QUANTITY	PER ACRE	PER TON	YOUR FARM
OPERATING PREHARVEST						
Establishment (7-year allocation)	acre	38.57	1	38.57	9.18	
Tillage						
Harrow	acre	3.00	1	3.00	0.71	
Fertilizer	lbs	0.23	250	57.50	13.69	
Herbicide						
Application	dollars	6.00	1	6.00	1.43	
Spot Spray (Roundup)	acre	3.00	1	3.00	0.71	
Irrigation						
Water Assessment (surface)	dollars	35.00	1	35.00	8.33	
Labor	dollars	25.00	1	25.00	5.95	
Repairs & Maintenance	dollars	10.00	1	10.00	2.38	
Crop Insurance (NAP)	dollars	6.00	1	6.00	1.43	
Fuel	dollars	0.00	1	0.00	0.00	
Repairs & Maintenance	dollars	0.00	1	0.00	0.00	
Interest (6 months @ 6%)	dollars	5.52	1	5.52	1.31	
Total Pre-Harvest Expenses				\$189.59	\$45.14	\$0.00
HARVEST COSTS						
Swath (3 cuttings)	acre	15.00	3	45.00	10.71	
Rake (3 cuttings)	acre	5.00	3	15.00	3.57	
Bale (3x4 large bales)	acre	10.00	4.2	42.00	10.00	
Hauling	bale	4.00	4.9	19.76	4.71	
Total Harvest Costs				\$121.76	\$28.99	\$0.00
Total Operating Costs				\$311.36	\$74.13	\$0.00
PROPERTY & OWNERSHIP COSTS						
General Farm Overhead	dollars	80.00	1	80.00	19.05	
Depreciation	dollars	30.00	1	30.00	7.14	
Real Estate Taxes	dollars	12.00	1	12.00	2.86	
Total Property & Ownership Costs				\$122.00	\$29.05	\$0.00
TOTAL DIRECT COSTS				\$433.36	\$103.18	\$0.00
NET RECEIPTS BEFORE FACTOR PAYMENTS				\$154.64	\$36.82	\$0.00
FACTOR PAYMENTS						
Land (\$2,500 @ 4%)				100.00	23.81	
RETURN TO MANAGEMENT & RISK				\$54.64	\$13.01	\$0.00

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

		ALTERNATIVE PRICES (\$/ton)				
		-25%	-10%	10%	25%	
ALTERNATIVE YIELDS	TON PER ACRE	\$105.00	\$126.00	\$140.00	\$154.00	\$175.00
-25%	3.2	(\$102.61)	(\$36.46)	\$7.64	\$51.74	\$117.89
-10%	3.8	(\$36.46)	\$42.92	\$95.84	\$148.76	\$228.14
4.2	4.2	\$7.64	\$95.84	\$154.64	\$213.44	\$301.64
10%	4.6	\$51.74	\$148.76	\$213.44	\$278.12	\$375.14
25%	5.3	\$117.89	\$228.14	\$301.64	\$375.14	\$485.39