

Costs and Returns per acre from establishing irrigated alfalfa after oats, 2006
San Juan County

	Quantity per acre	Unit	Price/cost per unit	Value/cost per acre	Base Value	Your Value
Receipts						
Oats	69.0	bushels	\$2.13	\$147.20	\$147.20	
Straw	0.60	tons	\$43.00	\$25.80	\$25.80	
Subtotal				\$173.00	\$173.00	
Operating costs						
Land preparation						
Plowing	1	acre	\$22.78	\$22.78	\$22.78	
Discing	1	acre	\$11.56	\$11.56	\$11.56	
Land plane	2	acre	\$11.50	\$23.00	\$23.00	
Planting	1	acre	\$12.21	\$12.21	\$12.21	
Seed						
Oat	70	pounds	\$0.17	\$11.90	\$11.90	
Alfalfa	12	pounds	\$2.52	\$30.24	\$30.24	
Fertilization						
Nitrogen (34-0-0)	205	pounds	\$0.18	\$36.59	\$36.59	
Phosphate (11-52-0)	48	pounds	\$0.18	\$8.57	\$8.57	
Custom application	1	acre	\$7.82	\$7.82	\$7.82	
Pesticides/herbicides						
2-4-D	-	pint	\$2.75	\$0.00	\$0.00	
Custom application	-	acre	\$7.82	\$0.00	\$0.00	
Irrigation (wheel line)	4	irrigations				
Labor	1.33	hours	\$10.00	\$13.33	\$13.33	
Water assessment	1	share	\$10.00	\$10.00	\$10.00	
Repairs/maintenance	1	acre	\$2.30	\$2.30	\$2.30	
Pumping	27	acre inch	\$0.00	\$0.00	\$0.00	
Harvesting						
Combining	1	acre	\$26.00	\$26.00	\$26.00	
Haul grain (custom)	69.0	bushel	\$0.06	\$4.14	\$4.14	
Baling	0.60	tons	\$4.79	\$2.87	\$2.87	
Haul/stack straw	0.60	tons	\$3.63	\$2.18	\$2.18	
Interest on operating capital			7.61%	\$8.58	\$8.58	
Subtotal				\$234.07	\$242.85	
Ownership costs (excludes cost of land)				\$44.03	\$44.03	
Farm insurance	1	acre	\$2.00	\$2.00	\$2.00	
Machinery ownership costs	1	acre	\$33.78	\$33.78	\$33.78	
Irrigation equipment costs	1	acre	\$8.25	\$8.25	\$8.25	
Total costs				\$278.11	\$286.88	
Net returns to owner for unpaid labor, management, equity and risk						
Above operating costs				-\$61.07	-\$69.85	
Above total listed costs				-\$105.11	-\$113.88	

Breakeven Table - Oats

Net returns per acre above operating costs

Yield (Bu/Ac)	Selling Price (\$/Bu)				
	\$1.13	\$1.63	\$2.13	\$2.63	\$3.13
54.00	-\$146.17	-\$119.17	-\$92.17	-\$65.17	-\$38.17
59.00	-\$140.81	-\$111.31	-\$81.81	-\$52.31	-\$22.81
64.00	-\$135.44	-\$103.44	-\$71.44	-\$39.44	-\$7.44
69.00	-\$130.07	-\$95.57	-\$61.07	-\$26.57	\$7.93
74.00	-\$124.71	-\$87.71	-\$50.71	-\$13.71	\$23.29
79.00	-\$119.34	-\$79.84	-\$40.34	-\$0.84	\$38.66
84.00	-\$113.97	-\$71.97	-\$29.97	\$12.03	\$54.03

Assumptions

1. Grain and alfalfa planted in March and harvested in July.
2. Interest computed on land preparation and planting costs for 10 months and fertilization/herbicide/irrigation costs for 3 months.
3. Custom rates for all field operations.
4. Only owned machinery are a loader and truck.