

Costs and Returns per acre from establishing irrigated alfalfa after barley, 2006
North Sanpete County

	Quantity per acre	Unit	Price/cost per unit	Value/cost per acre	Base Value	Your Value
Receipts						
Barley	82.0	bushels	\$2.27	\$185.81	\$185.81	
Straw	0.75	tons	\$43.00	\$32.25	\$32.25	
				\$218.06	\$218.06	
Operating costs						
Land preparation						
Plowing	1	acre	\$5.88	\$5.88	\$5.88	
Discing	1	acre	\$3.73	\$3.73	\$3.73	
Roller harrow	2	acre	\$3.64	\$7.28	\$7.28	
Planting	1	acre	\$2.96	\$2.96	\$2.96	
Seed						
Barley	100	lb	\$0.17	\$17.00	\$17.00	
Alfalfa	12	lb	\$2.52	\$30.24	\$30.24	
Fertilization						
Nitrogen (34-0-0)	205	lb	\$0.18	\$36.59	\$36.59	
Phosphate (11-52-0)	48	lb	\$0.18	\$8.57	\$8.57	
Custom application	1	acre	\$7.82	\$7.82	\$7.82	
Pesticides/herbicides						
2-4-D	-	pints	\$2.75	\$0.00	\$0.00	
Custom application	-	acre	\$7.82	\$0.00	\$0.00	
Irrigation (wheel line)						
Labor	1.33	hours	\$10.00	\$13.33	\$13.33	
Water assessment	1	share	\$2.20	\$2.20	\$2.20	
Repairs/maintenance	1	acre	\$2.30	\$2.30	\$2.30	
Pumping	42	acre inch	\$0.00	\$0.00	\$0.00	
Harvesting						
Combining	1	acre	\$26.00	\$26.00	\$26.00	
Haul grain (custom)	82.0	bushel	\$0.06	\$4.92	\$4.92	
Baling	0.75	tons	\$4.79	\$3.59	\$3.59	
Haul/stack straw	0.75	tons	\$3.63	\$2.72	\$2.72	
Crop insurance (75% Yield, 100% Price)	1	acre	\$5.63	\$5.63	\$5.63	
Interest on operating capital			7.61%	\$5.60	\$5.60	
				\$186.38	\$187.05	
Ownership costs (excludes cost of land)						
Farm insurance	1	acre	\$2.00	\$2.00	\$2.00	
Machinery ownership costs	1	acre	\$111.39	\$111.39	\$111.39	
Irrigation equipment costs	1	acre	\$8.25	\$8.25	\$8.25	
				\$308.03	\$308.70	
Total costs						
Net returns to owner for unpaid labor, management, equity and risk						
Above operating costs				\$31.68	\$31.01	
Above total listed costs				-\$89.96	-\$90.63	

Breakeven Table - Barley
 Net returns per acre above operating costs

Yield (Bu/Ac)	Selling Price (\$/Bu)				
	\$1.27	\$1.77	\$2.27	\$2.77	\$3.27
67.00	-\$68.41	-\$34.91	-\$1.41	\$32.09	\$65.59
72.00	-\$62.38	-\$26.38	\$9.62	\$45.62	\$81.62
77.00	-\$56.35	-\$17.85	\$20.65	\$59.15	\$97.65
82.00	-\$50.32	-\$9.32	\$31.68	\$72.68	\$113.68
87.00	-\$44.29	-\$0.79	\$42.71	\$86.21	\$129.71
92.00	-\$38.26	\$7.74	\$53.74	\$99.74	\$145.74
97.00	-\$32.23	\$16.27	\$64.77	\$113.27	\$161.77

Assumptions

1. Grain and alfalfa planted in April 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. Machinery operating costs include: fuel, oil, repairs and labor.
4. Machinery ownership costs are allocated based on equipment used for each crop.
5. Machinery ownership costs include depreciation, interest, insurance, and housing.