

Costs and Returns per acre from establishing irrigated alfalfa after barley, 2006
South 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	
Subtotal				\$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	
Land plane	1	acre	\$3.34	\$3.34	\$3.34	
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	16	lb	\$2.52	\$40.32	\$40.32	
Fertilization						
Nitrogen (34-0-0)	278	pounds	\$0.18	\$49.62	\$49.62	
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	-	pints	\$2.75	\$0.00	\$0.00	
Puma	0.67	pints	\$25.00	\$16.75	\$16.75	
Custom application	1	acre	\$7.82	\$7.82	\$7.82	
Irrigation (wheel line)	4	irrigations				
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%	\$7.17	\$7.17	
Subtotal				\$238.97	\$239.64	
Ownership costs (excludes cost of land)				\$121.64	\$121.64	
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	
Total costs				\$360.62	\$361.29	
Net returns to owner for unpaid labor, management, equity and risk						
Above operating costs				-\$20.91	-\$21.58	
Above total listed costs				-\$142.55	-\$143.22	

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	-\$121.00	-\$87.50	-\$54.00	-\$20.50	\$13.00
72.00	-\$114.97	-\$78.97	-\$42.97	-\$6.97	\$29.03
77.00	-\$108.94	-\$70.44	-\$31.94	\$6.56	\$45.06
82.00	-\$102.91	-\$61.91	-\$20.91	\$20.09	\$61.09
87.00	-\$96.88	-\$53.38	-\$9.88	\$33.62	\$77.12
92.00	-\$90.85	-\$44.85	\$1.15	\$47.15	\$93.15
97.00	-\$84.82	-\$36.32	\$12.18	\$60.68	\$109.18

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.

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