

Costs and Returns per acre from establishing alfalfa after barley, 2006

Davis County

	Quantity per acre	Unit	Price/cost per unit	Value/cost per acre	Base Value	Your Value
Receipts						
Barley	98.2	bushels	\$2.27	\$222.52	\$222.52	
Straw	0.75	tons	\$43.00	\$32.25	\$32.25	
				\$254.77	\$254.77	
Operating costs						
Land preparation						
Plowing	1	acre	\$5.88	\$5.88	\$5.88	
Roller harrow	1	acre	\$3.64	\$3.64	\$3.64	
Land plane	1	acre	\$3.34	\$3.34	\$3.34	
Discing	1	acre	\$3.73	\$3.73	\$3.73	
Planting	1	acre	\$2.96	\$2.96	\$2.96	
Seed						
Barley seed	100	pounds	\$0.17	\$17.00	\$17.00	
Alfalfa seed	12	pounds	\$2.52	\$30.24	\$30.24	
Fertilization						
Nitrogen (46-0-0)	263	pounds	\$0.20	\$52.60	\$52.60	
Phosphate (11-52-0)	96	pounds	\$0.20	\$19.20	\$19.20	
Custom application	1	acre	\$7.82	\$7.82	\$7.82	
Pesticides/herbicides						
2-4-D	-	pint	\$2.75	\$0.00	\$0.00	
Puma	0.67	pint	\$25.00	\$16.75	\$16.75	
Custom application	1	acre	\$7.82	\$7.82	\$7.82	
Irrigation (siphon)						
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	34	acre inch	\$0.00	\$0.00	\$0.00	
Harvesting						
Custom combine	1	acre	\$35.00	\$35.00	\$35.00	
Haul grain (custom)	98.2	bushel	\$0.08	\$7.86	\$7.86	
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%	\$9.18	\$9.18	
				\$260.60	\$260.60	
Ownership costs (excludes cost of land)						
Farm insurance	1	acre	\$2.00	\$2.00	\$2.00	
Machinery ownership costs	1	acre	\$88.85	\$88.85	\$88.85	
Irrigation equipment costs	1	acre	\$8.25	\$8.25	\$8.25	
				\$359.70	\$359.70	
Total costs						
				\$99.10	\$99.10	
Net returns to owner for unpaid labor, management, equity and risk						
Above operating costs					-\$5.83	-\$5.83
Above total listed costs					-\$104.93	-\$104.93

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
83.20	-\$121.82	-\$80.22	-\$38.62	\$2.98	\$44.58
88.20	-\$115.89	-\$71.79	-\$27.69	\$16.41	\$60.51
93.20	-\$109.96	-\$63.36	-\$16.76	\$29.84	\$76.44
98.20	-\$104.03	-\$54.93	-\$5.83	\$43.27	\$92.37
103.20	-\$98.10	-\$46.50	\$5.10	\$56.70	\$108.30
108.20	-\$92.17	-\$38.07	\$16.03	\$70.13	\$124.23
113.20	-\$86.24	-\$29.64	\$26.96	\$83.56	\$140.16

Assumptions

1. Grain 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 6 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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