

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

	Quantity per acre	Unit	Price/cost per unit	Value/cost per acre	Base Value	Your Value
Receipts						
Barley	83.7	bushels	\$2.27	\$190.00	\$190.00	
Straw	0.75	tons	\$43.00	\$32.25	\$32.25	
Subtotal				\$222.25	\$222.25	
Operating costs						
Land preparation						
Plowing	1	acre	\$22.78	\$22.78	\$22.78	
Roller harrow	2	acre	\$14.33	\$28.66	\$28.66	
Land plane	1	acre	\$11.50	\$11.50	\$11.50	
Discing	1	acre	\$11.56	\$11.56	\$11.56	
Planting	1	acre	\$12.21	\$12.21	\$12.21	
Seed						
Barley seed	90	pounds	\$0.17	\$15.30	\$15.30	
Alfalfa seed	12	pounds	\$2.52	\$30.24	\$30.24	
Fertilization						
Nitrogen (34-0-0)	220	pounds	\$0.18	\$39.27	\$39.27	
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	
Hoelon	-	pints	\$9.75	\$0.00	\$0.00	
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	\$15.00	\$15.00	\$15.00	
Repairs/maintenance	1	acre	\$2.30	\$2.30	\$2.30	
Pumping	36	acre inch	\$0.00	\$0.00	\$0.00	
Harvesting						
Custom combine	1	acre	\$26.00	\$26.00	\$26.00	
Haul grain (custom)	83.7	bushel	\$0.06	\$5.02	\$5.02	
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%	\$11.97	\$11.97	
Subtotal				\$281.30	\$292.26	
Ownership costs (excludes cost of land)				\$73.95	\$73.95	
Farm insurance	1	acre	\$2.00	\$2.00	\$2.00	
Machinery ownership costs	1	acre	\$63.70	\$63.70	\$63.70	
Irrigation equipment costs	1	acre	\$8.25	\$8.25	\$8.25	
Total costs				\$355.25	\$366.21	
Net returns to owner for unpaid labor, management, equity and risk						
Above operating costs				-\$59.05	-\$70.01	
Above total costs				-\$133.00	-\$143.96	

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
68.70	-\$160.90	-\$126.55	-\$92.20	-\$57.85	-\$23.50
73.70	-\$154.85	-\$118.00	-\$81.15	-\$44.30	-\$7.45
78.70	-\$148.80	-\$109.45	-\$70.10	-\$30.75	\$8.60
83.70	-\$142.75	-\$100.90	-\$59.05	-\$17.20	\$24.65
88.70	-\$136.70	-\$92.35	-\$48.00	-\$3.65	\$40.70
93.70	-\$130.65	-\$83.80	-\$36.95	\$9.90	\$56.75
98.70	-\$124.60	-\$75.25	-\$25.90	\$23.45	\$72.80

Assumptions

1. Grain planted in March and harvested in July.
2. Interest computed on land preparation and planting costs for 10 months and fertilization/herbicides/irrigation costs for 6 months.
3. Custom rates for all field operations.
4. Only owned machinery are a loader and truck.

Budget prepared by: E. Bruce Godfrey, Cody Bingham and Earl Jackson

