

**Costs and Returns per acre from growing barley, 2006
Sevier County**

	Quantity per acre	Unit	Price/cost per unit	Value/cost per acre	Base Value	Your Value
Receipts						
Barley	89.0	bushels	\$2.27	\$201.67	\$201.67	
Straw	0.80	tons	\$43.00	\$34.40	\$34.40	
Subtotal				\$236.07	\$236.07	
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	
Land plane	1	acre	\$3.34	\$3.34	\$3.34	
Planting	1	acre	\$2.96	\$2.96	\$2.96	
Seed	100	pounds	\$0.17	\$17.00	\$17.00	
Fertilization						
Nitrogen (34-0-0)	221	pounds	\$0.18	\$39.36	\$39.36	
Custom application	1	acre	\$7.82	\$7.82	\$7.82	
Pesticides/herbicides						
2-4-D	1.25	pint	\$2.75	\$3.44	\$3.44	
Puma	0.67	pint	\$25.00	\$16.75	\$16.75	
Custom application	1	acre	\$7.82	\$7.82	\$7.82	
Irrigation (wheel line)	2	irrigations				
Labor	0.67	hours	\$10.00	\$6.67	\$6.67	
Water assessment	1	share	\$15.00	\$15.00	\$15.00	
Repairs/maintenance	1	acre	\$2.30	\$2.30	\$2.30	
Pumping	28	acre inch	\$0.00	\$0.00	\$0.00	
Harvesting						
Custom combine	1	acre	\$26.00	\$26.00	\$26.00	
Haul grain (custom)	89.0	bushel	\$0.06	\$5.34	\$5.34	
Baling	0.80	tons	\$4.79	\$3.83	\$3.83	
Haul/stack straw	0.80	tons	\$3.63	\$2.90	\$2.90	
Crop insurance (75% Yield, 100% Price)	1	acre	\$7.85	\$7.85	\$7.85	
Interest on operating capital			7.61%	\$3.42	\$3.42	
Subtotal				\$188.70	\$189.19	
Ownership costs (excludes cost of land)				\$100.35	\$100.35	
Insurance	1	acre	\$2.00	\$2.00	\$2.00	
Machinery ownership costs	1	acre	\$90.10	\$90.10	\$90.10	
Irrigation equipment costs	1	acre	\$8.25	\$8.25	\$8.25	
Total costs				\$289.05	\$289.54	
Net returns to owner for unpaid labor, management, equity and risk						
Above operating costs				\$47.38	\$46.89	
Above total listed costs				-\$52.97	-\$53.47	

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
74.00	-\$59.71	-\$22.71	\$14.29	\$51.29	\$88.29
79.00	-\$53.68	-\$14.18	\$25.32	\$64.82	\$104.32
84.00	-\$47.65	-\$5.65	\$36.35	\$78.35	\$120.35
89.00	-\$41.62	\$2.88	\$47.38	\$91.88	\$136.38
94.00	-\$35.59	\$11.41	\$58.41	\$105.41	\$152.41
99.00	-\$29.56	\$19.94	\$69.44	\$118.94	\$168.44
104.00	-\$23.53	\$28.47	\$80.47	\$132.47	\$184.47

Assumptions

1. Grain planted in late March and harvested in early August.
2. Interest computed on land preparation and planting costs for 6 months and fertilization/herbicides/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.