

**Costs and Returns per acre from growing 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 | 2 | acre | \$3.73 | \$7.47 | \$7.47 | |
| 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 | 100 | lb | \$0.17 | \$17.00 | \$17.00 | |
| Fertilization | | | | | | |
| Nitrogen (34-0-0) | 205 | pounds | \$0.18 | \$36.59 | \$36.59 | |
| 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 | 1.25 | pints | \$2.75 | \$3.44 | \$3.44 | |
| 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 | 27 | 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 | \$8.22 | \$8.22 | \$8.22 | |
| Interest on operating capital | | | 7.61% | \$4.35 | \$4.35 | |
| Subtotal | | | | \$175.81 | \$176.48 | |
| 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 | | | | \$297.46 | \$298.13 | |
| Net returns to owner for unpaid labor, management, equity and risk | | | | | | |
| Above operating costs | | | | \$42.25 | \$41.58 | |
| Above total listed costs | | | | -\$79.39 | -\$80.06 | |

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 | -\$57.84 | -\$24.34 | \$9.16 | \$42.66 | \$76.16 |
| 72.00 | -\$51.81 | -\$15.81 | \$20.19 | \$56.19 | \$92.19 |
| 77.00 | -\$45.78 | -\$7.28 | \$31.22 | \$69.72 | \$108.22 |
| 82.00 | -\$39.75 | \$1.25 | \$42.25 | \$83.25 | \$124.25 |
| 87.00 | -\$33.72 | \$9.78 | \$53.28 | \$96.78 | \$140.28 |
| 92.00 | -\$27.69 | \$18.31 | \$64.31 | \$110.31 | \$156.31 |
| 97.00 | -\$21.66 | \$26.84 | \$75.34 | \$123.84 | \$172.34 |

Assumptions

1. Grain 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.