

Costs and Returns per acre from growing barley, 2006
Juab County

| | Quantity per acre | Unit | Price/cost per unit | Value/cost per acre | Base Value | Your Value |
|--|----------------------|-----------|------------------------|------------------------|------------|------------|
| Receipts | | | | | | |
| Barley | 56.0 | bushels | \$2.27 | \$126.90 | \$126.90 | |
| Straw | 0.70 | tons | \$43.00 | \$30.10 | \$30.10 | |
| | Subtotal | | | \$157.00 | \$157.00 | |
| 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 | 100 | pounds | \$0.17 | \$17.00 | \$17.00 | |
| 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 | 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) | | | | | | |
| Labor | 0.67 | hours | \$10.00 | \$6.67 | \$6.67 | |
| Water assessment | 1 | share | \$30.00 | \$30.00 | \$30.00 | |
| Repairs/maintenance | 1 | acre | \$2.30 | \$2.30 | \$2.30 | |
| Pumping | 25 | acre inch | \$0.00 | \$0.00 | \$0.00 | |
| Harvesting | | | | | | |
| Custom combine | 1 | acre | \$26.00 | \$26.00 | \$26.00 | |
| Haul grain (custom) | 56.0 | bushel | \$0.06 | \$3.36 | \$3.36 | |
| Baling | 0.70 | tons | \$4.79 | \$3.35 | \$3.35 | |
| Haul/stack straw | 0.70 | tons | \$3.63 | \$2.54 | \$2.54 | |
| Crop insurance (75% Yield, 100% Price) | 1 | acre | \$9.17 | \$9.17 | \$9.17 | |
| Interest on operating capital | | | 7.61% | \$4.06 | \$4.06 | |
| | Subtotal | | | \$221.67 | \$222.52 | |
| Ownership costs (excludes cost of land) | | | | | | |
| Insurance | 1 | acre | \$2.00 | \$2.00 | \$2.00 | |
| Machinery ownership cost | 1 | acre | \$58.83 | \$58.83 | \$58.83 | |
| Irrigation equipment costs | 1 | acre | \$8.25 | \$8.25 | \$8.25 | |
| | Total costs | | | \$290.75 | \$291.60 | |
| Net returns to owner for unpaid labor, management, equity and risk | | | | | | |
| Above operating costs | | | | -\$64.67 | -\$65.52 | |
| Above total listed costs | | | | -\$133.76 | -\$134.61 | |

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 |
| 41.00 | -\$138.76 | -\$118.26 | -\$97.76 | -\$77.26 | -\$56.76 |
| 46.00 | -\$132.73 | -\$109.73 | -\$86.73 | -\$63.73 | -\$40.73 |
| 51.00 | -\$126.70 | -\$101.20 | -\$75.70 | -\$50.20 | -\$24.70 |
| 56.00 | -\$120.67 | -\$92.67 | -\$64.67 | -\$36.67 | -\$8.67 |
| 61.00 | -\$114.64 | -\$84.14 | -\$53.64 | -\$23.14 | \$7.36 |
| 66.00 | -\$108.61 | -\$75.61 | -\$42.61 | -\$9.61 | \$23.39 |
| 71.00 | -\$102.58 | -\$67.08 | -\$31.58 | \$3.92 | \$39.42 |

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.