

Costs and Returns per acre from growing barley, 2006
Box Elder County

| | Quantity per acre | Unit | Price/cost per unit | Value/cost per acre | Base Value | Your Value |
|--|----------------------|-----------|------------------------|------------------------|------------|------------|
| Receipts | | | | | | |
| Barley | 92.8 | bushels | \$2.27 | \$210.28 | \$210.28 | |
| Straw | 0.50 | tons | \$43.00 | \$21.50 | \$21.50 | |
| | Subtotal | | | \$231.78 | \$231.78 | |
| Operating costs | | | | | | |
| Land preparation | | | | | | |
| Plowing (every 3rd year) | 1/3 | acre | \$5.88 | \$1.96 | \$1.96 | |
| Discing w/ packer | 1 | acre | \$3.73 | \$3.73 | \$3.73 | |
| Land plane | 2 | acre | \$3.34 | \$6.69 | \$6.69 | |
| Planting | 1 | acre | \$2.96 | \$2.96 | \$2.96 | |
| Seed | 110 | pounds | \$0.17 | \$18.70 | \$18.70 | |
| Fertilization | | | | | | |
| Nitrogen (34-0-0) | 308 | pounds | \$0.18 | \$54.98 | \$54.98 | |
| 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 (siphon) | | | | | | |
| Labor | 1.00 | hours | \$10.00 | \$10.00 | \$10.00 | |
| Water assessment | 1 | share | \$10.00 | \$10.00 | \$10.00 | |
| Repairs/maintenance | 1 | acre | \$2.30 | \$2.30 | \$2.30 | |
| Pumping | - | acre inch | \$0.00 | \$0.00 | \$0.00 | |
| Harvesting | | | | | | |
| Custom combine | 1 | acre | \$26.00 | \$26.00 | \$26.00 | |
| Haul grain (custom) | 92.8 | bushel | \$0.06 | \$5.57 | \$5.57 | |
| Baling | 0.50 | tons | \$4.79 | \$2.40 | \$2.40 | |
| Haul/stack straw | 0.5 | tons | \$3.63 | \$1.82 | \$1.82 | |
| Crop insurance (75% Yield, 100% Price) | 1 | acre | \$11.64 | \$11.64 | \$11.64 | |
| Interest on operating capital | | | 7.61% | \$3.29 | \$3.29 | |
| | Subtotal | | | \$189.68 | \$191.24 | |
| Ownership costs (excludes cost of land) | | | | | | |
| Farm insurance | 1 | acre | \$2.00 | \$2.00 | \$2.00 | |
| Machinery ownership costs | 1 | acre | \$50.62 | \$50.62 | \$50.62 | |
| Irrigation equipment costs | 1 | acre | \$8.25 | \$8.25 | \$8.25 | |
| | Total costs | | | \$250.55 | \$252.11 | |
| Net returns to owner for unpaid labor, management, equity and risk | | | | | | |
| Above operating costs | | | | \$42.11 | \$40.54 | |
| Above total listed costs | | | | -\$18.76 | -\$20.33 | |

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 |
| 77.80 | -\$68.78 | -\$29.88 | \$9.02 | \$47.92 | \$86.82 |
| 82.80 | -\$62.75 | -\$21.35 | \$20.05 | \$61.45 | \$102.85 |
| 87.80 | -\$56.72 | -\$12.82 | \$31.08 | \$74.98 | \$118.88 |
| 92.80 | -\$50.69 | -\$4.29 | \$42.11 | \$88.51 | \$134.91 |
| 97.80 | -\$44.66 | \$4.24 | \$53.14 | \$102.04 | \$150.94 |
| 102.80 | -\$38.63 | \$12.77 | \$64.17 | \$115.57 | \$166.97 |
| 107.80 | -\$32.60 | \$21.30 | \$75.20 | \$129.10 | \$183.00 |

Assumptions

1. Grain planted in late March and harvested in late July.
2. Interest computed on land preparation and planting costs for 6 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.