## Costs and Returns per acre from growing barley, 2006

### Utah County

<table>
<thead>
<tr>
<th>Receipts</th>
<th>Quantity per acre</th>
<th>Unit</th>
<th>Price/cost per unit</th>
<th>Value/cost per acre</th>
<th>Base Value</th>
<th>Your Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barley</td>
<td>88.0</td>
<td>bushels</td>
<td>$2.27</td>
<td>$199.41</td>
<td>$199.41</td>
<td></td>
</tr>
<tr>
<td>Straw</td>
<td>0.90</td>
<td>tons</td>
<td>$43.00</td>
<td>$38.70</td>
<td>$38.70</td>
<td></td>
</tr>
<tr>
<td><strong>Subtotal</strong></td>
<td></td>
<td></td>
<td></td>
<td>$238.11</td>
<td>$238.11</td>
<td></td>
</tr>
</tbody>
</table>

### Operating costs

- **Land preparation**
  - Plowing: 1 acre, $5.88
  - Discing: 1 acre, $3.73
  - Roller harrow: 2 acre, $3.64
- **Planting**: 1 acre, $2.96
- **Seed**: 100 pounds, $0.17
- **Fertilization**
  - Nitrogen (34-0-0): 275 pounds, $0.18
  - Phosphate (11-52-0): 58 pounds, $0.18
- **Custom application**: 1 acre, $7.82
- **Pesticides/herbicides**
  - Sevin XLR Plus: 1 quart, $4.10
  - 2-4-D: 1.25 pint, $2.75
  - Puma: 0.67 pint, $25.00
- **Irrigation (wheel line)**
  - Custom application: 1 acre, $7.82
- **Labor**: 0.67 hours, $10.00
- **Water assessment**: 1 share, $10.00
- **Repairs/maintenance**: 1 acre, $2.30
- **Pumping**: 24 acre inch, $0.00
- **Harvesting**
  - Custom combine: 1 acre, $26.00
  - Haul grain (custom): 88.0 bushel, $0.06
  - Baling: 0.90 tons, $4.79
  - Haul/stack straw: 0.90 tons, $3.63
- **Crop insurance (75% Yield, 100% Price)**: 1 acre, 7.61%
- **Interest on operating capital**: 7.61%

| **Subtotal** | $207.17 | $207.30 |

### Ownership costs (excludes cost of land)

- **Insurance**: 1 acre, $2.00
- **Machinery ownership costs**: 1 acre, $91.64
- **Irrigation equipment costs**: 1 acre, $8.25

| **Total costs** | $309.06 | $309.19 |

### Net returns to owner for unpaid labor, management, equity and risk

- Above operating costs: $30.94
- Above total costs: $30.81
- Net returns per acre above operating costs: $70.95
- Net returns per acre above total costs: $71.08

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### Breakeven Table - Barley

<table>
<thead>
<tr>
<th>Yield (Bu/Ac)</th>
<th>Selling Price ($/Bu)</th>
<th>$1.27</th>
<th>$1.77</th>
<th>$2.27</th>
<th>$2.77</th>
<th>$3.27</th>
</tr>
</thead>
<tbody>
<tr>
<td>73.00</td>
<td>-78.15</td>
<td>-38.65</td>
<td>-2.15</td>
<td>-2.15</td>
<td>-34.35</td>
<td>-70.85</td>
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<tr>
<td>78.00</td>
<td>-69.12</td>
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<td>8.88</td>
<td>47.88</td>
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<tr>
<td>83.00</td>
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<td>61.41</td>
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<tr>
<td>88.00</td>
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<td>30.94</td>
<td>74.94</td>
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<tr>
<td>93.00</td>
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<td>88.47</td>
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<tr>
<td>98.00</td>
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<tr>
<td>103.00</td>
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<td>12.53</td>
<td>64.03</td>
<td>115.53</td>
<td>167.03</td>
<td></td>
</tr>
</tbody>
</table>

### 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.

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