# Costs and Returns per acre from growing barley, 2006

## Cache 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>95.0</td>
<td>bushels</td>
<td>$2.50</td>
<td>$237.50</td>
<td>$237.50</td>
<td></td>
</tr>
<tr>
<td>Straw</td>
<td>0.65</td>
<td>tons</td>
<td>$43.00</td>
<td>$27.95</td>
<td>$27.95</td>
<td></td>
</tr>
<tr>
<td><strong>Subtotal</strong></td>
<td></td>
<td></td>
<td></td>
<td>$265.45</td>
<td>$265.45</td>
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</tr>
</tbody>
</table>

### Operating costs

#### Land preparation
- Plowing
  - 1 acre
  - $5.88
- Discing
  - 1 acre
  - $3.73
- Roller harrow
  - 1 acre
  - $3.64
- Land plane
  - 1 acre
  - $3.34
- Planting
  - 1 acre
  - $2.96
- Seed
  - 100 pounds
  - $0.17
- Fertilization
  - Nitrogen (34-0-0)
    - 300 pounds
    - $0.18
  - Phosphate
    - - pounds
    - $0.00
  - Custom application
    - 1 acre
    - $7.82
- Pesticides/herbicides
  - 2,4-D
    - 1.25 pint
    - $2.75
  - Puma
    - 0.67 pint
    - $25.00
  - Lorsban
    - 0.75 pint
    - $4.85
  - Custom application
    - 1 acre
    - $7.82
- Irrigation (wheel line)
  - 2 irrigations
  - Labor
    - 0.67 hours
    - $10.00
  - Water assessment
    - 1 share
    - $10.00
  - Repairs/maintenance
    - 1 acre
    - $2.30
  - Pumping
    - 22 acre inch
    - $0.00
- Harvesting
  - Custom combine
    - 1 acre
    - $28.00
  - Haul grain (custom)
    - 95.0 bushel
    - $0.08
  - Baling
    - 0.65 tons
    - $4.79
  - Haul/stack straw
    - 0.65 tons
    - $3.63
  - Crop insurance (75% Yield, 100% Price)
    - 1 acre
    - 7.61%
- Interest on operating capital
  - 7.61%

**Subtotal**: $198.96

### Ownership costs (excludes cost of land)
- Farm insurance
  - 1 acre
  - $2.00
- Machinery ownership costs
  - 1 acre
  - $64.65
- Irrigation equipment
  - 1 acre
  - $8.25

**Total costs**: $273.86

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

- Above operating costs: $66.49
- Above total listed costs: -$8.41

## Breakeven Table - Barley

<table>
<thead>
<tr>
<th>Yield (Bu/Ac)</th>
<th>$1.50</th>
<th>$2.00</th>
<th>$2.50</th>
<th>$3.00</th>
<th>$3.50</th>
</tr>
</thead>
<tbody>
<tr>
<td>80.00</td>
<td>-$49.81</td>
<td>-$30.19</td>
<td>$10.19</td>
<td>$110.19</td>
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<tr>
<td>85.00</td>
<td>-$42.71</td>
<td>-$24.29</td>
<td>$12.79</td>
<td>$127.29</td>
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<tr>
<td>90.00</td>
<td>-$35.61</td>
<td>-$18.39</td>
<td>$14.39</td>
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</tr>
<tr>
<td>95.00</td>
<td>-$28.51</td>
<td>-$12.49</td>
<td>$56.49</td>
<td>$161.49</td>
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</tr>
<tr>
<td>100.00</td>
<td>-$21.41</td>
<td>$78.59</td>
<td>$128.59</td>
<td>$178.59</td>
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</tr>
<tr>
<td>105.00</td>
<td>-$14.31</td>
<td>$90.69</td>
<td>$143.19</td>
<td>$195.69</td>
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</tr>
<tr>
<td>110.00</td>
<td>-$7.21</td>
<td>$102.79</td>
<td>$157.79</td>
<td>$212.79</td>
<td></td>
</tr>
</tbody>
</table>

### Assumptions
1. Grain planted in late April 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.

Budget prepared by: E. Bruce Godfrey, Cody Bingham and Clark Israelsen