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

### Salt Lake County

#### Receipts

<table>
<thead>
<tr>
<th>Item</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>83.7</td>
<td>bushels</td>
<td>$2.27</td>
<td>$190.00</td>
<td>$190.00</td>
<td></td>
</tr>
<tr>
<td>Straw</td>
<td>0.75</td>
<td>tons</td>
<td>$43.00</td>
<td>$32.25</td>
<td>$32.25</td>
<td></td>
</tr>
<tr>
<td><strong>Subtotal</strong></td>
<td></td>
<td></td>
<td></td>
<td>$222.25</td>
<td>$222.25</td>
<td></td>
</tr>
</tbody>
</table>

#### Operating costs

- **Land preparation**
  - Plowing: 1 acre, $22.78; $22.78; $22.78
  - Discing: 1 acre, $11.56; $11.56; $11.56
  - Land plane: 2 acre, $11.50; $23.00; $23.00
  - Roller harrow: 2 acre, $14.33; $28.66; $28.66
  - Planting: 1 acre, $12.21; $12.21; $12.21

- **Seed**: 90 pounds, $0.17; $15.30; $15.30

- **Fertilization**
  - Nitrogen (34-0-0): 220 pounds, $0.18; $39.27; $39.27
  - Phosphate (11-52-0): 48 pounds, $0.18; $8.57; $8.57

- **Custom application**
  - 2-4-D: 1.25 pints, $2.75; $3.44; $3.44
  - Puma: 24 gallons, $30.00; $0.00; $0.00

- **Irrigation (wheel line)**
  - 0.67 hours, $10.00; $6.67; $6.67

- **Labor**
  - Water assessment: 1 share, $15.00; $15.00; $15.00

- **Repairs/maintenance**
  - 1 acre, $2.30; $2.30; $2.30

- **Pumping**
  - 24 acre inch, $0.00; $0.00; $0.00

- **Harvesting**
  - Custom combine: 1 acre, $26.00; $26.00; $26.00
  - Haul grain (custom): 83.7 bushel, $0.06; $5.02; $5.02
  - 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, $4.90; $4.90; $4.90

- **Interest on operating capital**
  - 7.61%; $6.05; $6.05

| Subtotal      |                   | $252.68; $263.64 |

#### Ownership costs (excludes cost of land)

- **Farm insurance**: 1 acre, $2.00; $2.00; $2.00
- **Machinery ownership costs**: 1 acre, $63.70; $63.70; $63.70
- **Irrigation equipment costs**: 1 acre, $8.25; $8.25; $8.25

| **Total costs** | $326.63; $337.59 |

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

- **Above operating costs**: -$30.43; -$41.39
- **Above total costs**: -$104.38; -$115.34

### 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>68.70</td>
<td>-$132.28</td>
<td>-$97.93</td>
<td>-$63.58</td>
<td>-$29.23</td>
<td>$5.12</td>
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<tr>
<td>73.70</td>
<td>-$126.23</td>
<td>-$98.38</td>
<td>-$52.53</td>
<td>-$15.68</td>
<td>$21.17</td>
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<tr>
<td>78.70</td>
<td>-$120.18</td>
<td>-$80.83</td>
<td>-$41.48</td>
<td>-$2.13</td>
<td>$37.22</td>
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</tr>
<tr>
<td>83.70</td>
<td>-$114.13</td>
<td>-$72.28</td>
<td>-$30.43</td>
<td>$11.42</td>
<td>$53.27</td>
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<tr>
<td>88.70</td>
<td>-$108.08</td>
<td>-$63.73</td>
<td>-$19.38</td>
<td>$24.97</td>
<td>$69.32</td>
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<tr>
<td>93.70</td>
<td>-$102.03</td>
<td>-$55.18</td>
<td>-$8.33</td>
<td>$38.52</td>
<td>$85.37</td>
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<tr>
<td>98.70</td>
<td>-$95.98</td>
<td>-$46.63</td>
<td>$2.72</td>
<td>$52.07</td>
<td>$101.42</td>
<td></td>
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</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. Custom rates for all field operations.
4. Only owned machinery are a loader and truck.

Budget prepared by: E. Bruce Godfrey, Cody Bingham and Earl Jackson