## Costs and Returns per acre from growing barley, 2006
### Box Elder 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>92.8</td>
<td>bushels</td>
<td>$2.27</td>
<td>$210.28</td>
<td>$210.28</td>
<td></td>
</tr>
<tr>
<td>Straw</td>
<td>0.50</td>
<td>tons</td>
<td>$43.00</td>
<td>$21.50</td>
<td>$21.50</td>
<td>$2.35</td>
</tr>
<tr>
<td><strong>Subtotal</strong></td>
<td></td>
<td></td>
<td></td>
<td>$231.78</td>
<td>$231.78</td>
<td></td>
</tr>
</tbody>
</table>

### Operating costs

#### Land preparation
- Plowing (every 3rd year) 1/3 acre: $5.88 (1.96)
- Discing w/ packer 2 acre: $3.34 (6.69)
- Land plane 2 acre: $3.34 (6.69)
- Planting 1 acre: $2.96 (2.96)

#### Seed
- 110 pounds: $0.17 (18.70)

#### Fertilization
- Nitrogen (34-0-0) 308 pounds: $0.18 (54.98)
- Phosphate (11-52-0) 48 pounds: $0.18 (8.57)
- Custom application 1 acre: $7.82 (7.82)

#### Pesticides/herbicides
- 2-2-0 1.25 pints: $2.75 (3.44)
- Custom application 1 acre: $7.82 (7.82)

#### Irrigation (siphon)
- Labor 1.00 hours: $10.00 (10.00)
- Water assessment 1 share: $10.00 (10.00)
- Repairs/maintenance 1 acre: $2.30 (2.30)
- Pumping 1 acre inch: $0.00 (0.00)

#### Harvesting
- Custom combine 1 acre: $26.00 (26.00)
- Haul grain (custom) 92.8 bushel: $0.06 (5.57)
- Baling 0.50 tons: $4.79 (4.79)
- Haul/stack straw 0.5 tons: $3.63 (1.82)
- Crop insurance (75% Yield, 100% Price) 1 acre: $11.64 (31.08)
- Interest on operating capital 7.61% 1 acre: $3.29 (3.29)

<table>
<thead>
<tr>
<th><strong>Subtotal</strong></th>
<th>$189.68</th>
<th>191.24</th>
</tr>
</thead>
</table>

#### Ownership costs (excludes cost of land)
- Farm insurance 1 acre: $2.00 (2.00)
- Machinery ownership costs 1 acre: $50.62 (50.62)
- Irrigation equipment costs 1 acre: $8.25 (8.25)

<table>
<thead>
<tr>
<th><strong>Total costs</strong></th>
<th>$250.55</th>
<th>252.11</th>
</tr>
</thead>
</table>

### 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)

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### Breakeven Table - Barley

#### Net returns per acre above operating costs

<table>
<thead>
<tr>
<th>Yield (Bu/Ac)</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>77.80</td>
<td>-$68.78</td>
<td>-$29.88</td>
<td>$9.02</td>
<td>$47.92</td>
<td>$86.82</td>
</tr>
<tr>
<td>82.80</td>
<td>-$62.75</td>
<td>-$21.35</td>
<td>$20.05</td>
<td>$61.45</td>
<td>$102.85</td>
</tr>
<tr>
<td>87.80</td>
<td>-$56.72</td>
<td>-$12.82</td>
<td>$31.08</td>
<td>$74.98</td>
<td>$118.88</td>
</tr>
<tr>
<td>92.80</td>
<td>-$50.69</td>
<td>-$4.29</td>
<td>$42.11</td>
<td>$88.51</td>
<td>$134.91</td>
</tr>
<tr>
<td>97.80</td>
<td>-$44.66</td>
<td>$4.24</td>
<td>$53.14</td>
<td>$102.04</td>
<td>$150.94</td>
</tr>
<tr>
<td>102.80</td>
<td>-$38.63</td>
<td>$12.77</td>
<td>$64.17</td>
<td>$115.57</td>
<td>$166.97</td>
</tr>
<tr>
<td>107.80</td>
<td>-$32.60</td>
<td>$21.30</td>
<td>$75.20</td>
<td>$129.10</td>
<td>$183.00</td>
</tr>
</tbody>
</table>

### 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.

Budget prepared by: E. Bruce Godfrey, Cody Bingham, Mike Pace and Lyle Holmgren