## Costs and Returns per acre from establishing alfalfa after barley, 2006

### Beaver 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>82.3</td>
<td>bushels</td>
<td>$2.27</td>
<td>$186.49</td>
<td>$186.49</td>
<td>$186.49</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>$32.25</td>
</tr>
<tr>
<td><strong>Subtotal</strong></td>
<td></td>
<td></td>
<td></td>
<td>$218.74</td>
<td>$218.74</td>
<td></td>
</tr>
</tbody>
</table>

#### Operating costs

- **Land preparation**
  - Plowing 1 acre: $5.88
  - Roller harrow 2 acre: $3.64
  - Discing 1 acre: $3.73
- **Planting**
  - 1 acre: $2.96
- **Seed**
  - Barley seed 90 pounds: $0.17
  - Alfalfa seed 12 pounds: $2.52
- **Fertilization**
  - Nitrogen (34-0-0) 205 pounds: $0.18
  - Phosphate (11-52-0) 48 pounds: $0.18
  - Custom application 1 acre: $7.82
- **Pesticides/herbicides**
  - 2, 4-D Lo V Ester 6 lb: $2.75
  - Puma 0.67 pints: $25.00
  - Custom application 1 acre: $7.82
- **Irrigation (wheel line)**
  - 4 irrigations: $10.00
- **Labor**
  - 1.33 hours: $10.00
- **Water assessment**
  - 1 share: $10.00
- **Repairs/maintenance**
  - 1 acre: $2.30
- **Pumping**
  - 32 acre inch: $0.00
- **Harvesting**
  - Custom combine 1 acre: $26.00
  - Haul grain (custom) 82.3 bushel: $0.06
  - Baling 0.75 tons: $7.49
  - Haul/stack straw 0.75 tons: $3.63
- **Crop insurance (75% Yield, 100% Price)**
  - 1 acre: $5.63
- **Interest on operating capital**
  - 7.61%: $8.07

**Subtotal**: $219.54

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

- Farm insurance 1 acre: $2.00
- Machinery ownership costs 1 acre: $72.54
- Irrigation equipment costs 1 acre: $8.25

**Total costs**: $302.33

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

- **Above operating costs**: -$0.80
- **Above total listed costs**: -$83.59

---

### Breakeven Table - Barley

<table>
<thead>
<tr>
<th>Yield (Bu/Ac)</th>
<th>Selling Price ($/Bu)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$1.27</td>
</tr>
<tr>
<td>6.70</td>
<td>-$101.19</td>
</tr>
<tr>
<td>7.20</td>
<td>-$95.16</td>
</tr>
<tr>
<td>8.20</td>
<td>-$83.10</td>
</tr>
<tr>
<td>8.70</td>
<td>-$77.07</td>
</tr>
<tr>
<td>9.20</td>
<td>-$71.04</td>
</tr>
<tr>
<td>9.70</td>
<td>-$65.01</td>
</tr>
</tbody>
</table>

**Assumptions**

1. Grain planted in late September and harvested in July.
2. Interest computed on land preparation and planting costs for 10 months and fertilization/herbicide/irrigation costs for 6 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.
6. Irrigation water is pumped from a depth of 300 feet.

Budget prepared by: E. Bruce Godfrey, Cody Bingham and Mark Nelson