### Costs and Returns per acre from growing alfalfa hay, 2006

**Duchesne 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>Alfalfa hay</td>
<td>3.6</td>
<td>tons</td>
<td>$88.57</td>
<td>$318.84</td>
<td>$318.84</td>
<td>$318.84</td>
</tr>
<tr>
<td>Residue</td>
<td>-</td>
<td>AUM</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
</tr>
<tr>
<td><strong>Subtotal</strong></td>
<td></td>
<td></td>
<td></td>
<td><strong>$318.84</strong></td>
<td><strong>$318.84</strong></td>
<td><strong>$318.84</strong></td>
</tr>
</tbody>
</table>

#### Operating costs

- **Fertilization**
  - Phosphate (11-52-0) 96 pounds $0.18 $17.14 $17.14
  - Custom application 1 acre $7.82 $7.82 $7.82

- **Pesticides/herbicides**
  - Furadan 1 pint $10.50 $10.50 $10.50
  - Custom application 1 acre $7.82 $7.82 $7.82

- **Irrigation (wheel line)**
  - Labor 1.67 hours $10.00 $16.67 $16.67
  - Water assessment 1 share $10.00 $10.00 $10.00
  - Repairs/maintenance 1 acre $2.30 $2.30 $2.30
  - Pumping 40 acre inch $0.00 $0.00 $0.00

- **Harvesting**
  - Swathing 3 acre $4.03 $12.10 $12.10
  - Turning 3 acre $1.39 $4.18 $4.18
  - Baling 3.60 tons $4.79 $17.24 $17.24
  - Hauling/stacking 3.60 tons $3.63 $13.07 $13.07

- **Crop insurance (75% Yield, 100% Price)**
  - 1 acre $14.53 $14.53 $14.53

- **Interest on operating capital**
  - 7.61% $3.08 $2.96

<table>
<thead>
<tr>
<th><strong>Subtotal</strong></th>
<th></th>
<th></th>
<th></th>
<th><strong>$136.45</strong></th>
<th><strong>$129.91</strong></th>
<th><strong>$129.91</strong></th>
</tr>
</thead>
</table>

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

- Farm insurance 1 acre $2.00 $2.00 $2.00
- Machinery ownership costs 1 acre $100.56 $100.56 $100.56
- Irrigation equipment costs 1 acre $8.25 $8.25 $8.25

<table>
<thead>
<tr>
<th><strong>Total costs</strong></th>
<th></th>
<th></th>
<th></th>
<th><strong>$247.26</strong></th>
<th><strong>$240.72</strong></th>
<th><strong>$240.72</strong></th>
</tr>
</thead>
</table>

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

- **Above operating costs**
  - $182.39 $188.93
- **Above total listed costs**
  - $71.98 $78.12

### Breakeven Table - Alfalfa

Net returns per acre above operating costs

<table>
<thead>
<tr>
<th>Yield (Ton/Ac)</th>
<th>Selling Price ($/ton)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$78.57</td>
</tr>
<tr>
<td>2.10</td>
<td>$41.17</td>
</tr>
<tr>
<td>2.60</td>
<td>$76.24</td>
</tr>
<tr>
<td>3.10</td>
<td>$111.32</td>
</tr>
<tr>
<td>3.60</td>
<td>$146.39</td>
</tr>
<tr>
<td>4.10</td>
<td>$181.46</td>
</tr>
<tr>
<td>4.60</td>
<td>$216.54</td>
</tr>
<tr>
<td>5.10</td>
<td>$251.61</td>
</tr>
</tbody>
</table>

**Assumptions**

1. Alfalfa already established, harvested in June, August, September.
2. Interest computed on fertilization/herbicide costs for 6 months and operating 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 Troy Cooper