## Costs and Returns per acre from establishing alfalfa in oat 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>Oat hay</td>
<td>2.0</td>
<td>tons</td>
<td>$67.67</td>
<td>$135.33</td>
<td>$135.33</td>
<td>$135.33</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>$135.33</td>
<td>$135.33</td>
<td>$135.33</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
- Oat seed: 90 pounds, $0.17
- Alfalfa seed: 12 pounds, $2.52

#### Fertilization
- Nitrogen (34-0-0): 232 pounds, $0.18
- Phosphate (11-52-0): 192 pounds, $0.18
- Custom application: 1 acre, $7.82

#### Irrigation (wheel line)
- Labor: 1.33 hours, $10.00
- Water assessment: 1 share, $10.00
- Repairs/maintenance: 1 acre, $2.30
- Pumping: 40 acre inch, $0.00

#### Harvesting
- Swathing: 1 acre, $4.03
- Raking/turning: 1 acre, $1.39
- Baling: 2.00 tons, $4.79
- Hauling/stacking: 2.00 tons, $3.63
- Crop insurance (75% Yield, 100% Price): 1, $6.31
- Interest on operating capital: 7.61%, $8.30

#### Subtotal
- $210.73
- $204.51

### Ownership costs (excludes cost of land)
- Farm insurance: 1 acre, $2.00
- Machinery ownership costs: 1 acre, $122.07
- Irrigation equipment costs: 1 acre, $8.25

#### Total costs
- $343.05
- $336.82

### Net returns to owner for unpaid labor, management, equity and risk
- Above operating costs: $-75.40
- Above total listed costs: $-207.72

### Assumptions
1. Grain planted in March 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.

**Budget prepared by:** E. Bruce Godfrey, Cody Bingham and Troy Cooper