## Costs and Returns per acre from establishing alfalfa after oat hay, 2006
### Tooele 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>2.2</td>
<td>tons</td>
<td>$67.67</td>
<td>$148.87</td>
<td>$148.87</td>
<td>$148.87</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>$148.87</td>
<td>$148.87</td>
<td>$148.87</td>
</tr>
</tbody>
</table>

### Operating costs
#### Land preparation
- **Plowing**
  - 1 acre: $5.88
- **Roller harrow**
  - 2 acre: $7.28
- **Discing**
  - 1 acre: $3.73
- **Planting**
  - 1 acre: $2.96

#### Seed
- **Oat seed**
  - 70 pounds: $0.17
- **Alfalfa seed**
  - 16 pounds: $2.52

#### Fertilization
- **Nitrogen (34-0-0)**
  - 249 pounds: $44.45
- **Phosphate (11-52-0)**
  - 48 pounds: $8.57
- **Custom application**
  - 1 acre: $7.82

#### Pesticides/herbicides
- **2-4-D**
  - 2-4-D: $2.75
- **Custom application**
  - 1 acre: $7.82
- **Irrigation (wheel line)**
  - 4 irrigations: $10.00
- **Labor**
  - 1.33 hours: $13.33
- **Water assessment**
  - 1 share: $15.00
- **Repairs/maintenance**
  - 1 acre: $2.30
- **Pumping**
  - 33 acre inch: $0.00

#### Harvesting
- **Swathing**
  - 1 acre: $4.03
- **Raking/turning**
  - 1 acre: $1.39
- **Baling**
  - 2.20 tons: $4.79
- **Hauling/stacking**
  - 2.20 tons: $7.99
- **Crop insurance (75% Yield, 100% Price)**
  - 1 acre: $5.63
- **Interest on operating capital**
  - 7.61%: $7.09

<table>
<thead>
<tr>
<th><strong>Subtotal</strong></th>
<th>$208.04</th>
<th>$200.85</th>
</tr>
</thead>
</table>

### Ownership costs (excludes cost of land)
- **Insurance**
  - 1 acre: $2.00
- **Machinery ownership costs**
  - 1 acre: $76.28
- **Irrigation equipment costs**
  - 1 acre: $8.25

<table>
<thead>
<tr>
<th><strong>Total costs</strong></th>
<th>$294.56</th>
<th>$287.38</th>
</tr>
</thead>
</table>

Net returns to owner for unpaid labor, management, equity and risk
- Above operating costs: -$59.17, -$51.99
- Above total listed costs: -$145.70, -$138.51

## Breakeven Table - Oat Hay

<table>
<thead>
<tr>
<th>Yield (Ton/Ac)</th>
<th>Selling Price ($/ton)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$57.67</td>
</tr>
<tr>
<td>0.70</td>
<td>-$159.04</td>
</tr>
<tr>
<td>1.20</td>
<td>-$130.42</td>
</tr>
<tr>
<td>1.70</td>
<td>-$105.79</td>
</tr>
<tr>
<td>2.20</td>
<td>-$81.17</td>
</tr>
<tr>
<td>2.70</td>
<td>-$56.55</td>
</tr>
<tr>
<td>3.20</td>
<td>-$31.92</td>
</tr>
<tr>
<td>3.70</td>
<td>-$7.30</td>
</tr>
</tbody>
</table>

**Assumptions**
1. Oat hay planted in late March and harvested in July.
2. Interest computed on land preparation and planting costs for 10 months and fertilization/herbicide/irrigation costs for 4 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 Linden Greenhalgh