## Costs and Returns per acre from establishing alfalfa with oat hay, 2006

### Wasatch 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>2.3</td>
<td>tons</td>
<td>$67.67</td>
<td>$155.63</td>
<td>$155.63</td>
<td>$155.63</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></td>
<td>$155.63</td>
<td>$155.63</td>
</tr>
</tbody>
</table>

### Operating costs

#### Land preparation
- **Plowing**: 1 acre, $22.78
- **Discing w/ harrow**: 1 acre, $11.56
- **Land plane**: 1 acre, $11.50
- **Planting**: 1 acre, $12.21

#### Seed
- **Oat seed**: 100 pounds, $0.17
- **Alfalfa seed**: 16 pounds, $2.52

#### Fertilization
- **Nitrogen**: - pounds, $0.18
- **Phosphate**: - pounds, $0.18
- **Custom application**: - acre, $7.82

#### Pesticides/herbicides
- **2-4-D**: - pint, $2.75
- **Custom application**: - acre, $7.82

#### Irrigation (flood)
- **Labor**: 0.67 hours, $10.00
- **Water assessment**: 1 share, $15.00
- **Repairs/maintenance**: 1 acre, $2.30
- **Pumping**: 36 acre inch, $0.00

#### Harvesting
- **Swathing**: 1 acre, $15.56
- **Turning/raking**: 1 acre, $4.69
- **Baling**: 2.30 tons, $4.79
- **Hauling/stacking**: 2.30 tons, $3.63

#### Ownership costs (excludes cost of land)
- **Insurance**: 1 acre, $2.00
- **Machinery ownership costs**: 1 acre, $31.71
- **Irrigation equipment costs**: 1 acre, $8.25

### Total costs
- $228.84
- $259.68

### Net returns to owner for unpaid labor, management, equity and risk
- **Above operating costs**: -$31.24
- **Above total listed costs**: -$73.20

### Breakeven Table - Oat Hay

**Net returns per acre above operating costs**

<table>
<thead>
<tr>
<th>Yield (Ton/Ac)</th>
<th>Selling Price ($/ton)</th>
<th>Base Value</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$57.67</td>
<td>$62.67</td>
</tr>
<tr>
<td>0.80</td>
<td>-$128.11</td>
<td>-$124.11</td>
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<tr>
<td>1.30</td>
<td>-$103.49</td>
<td>-$96.99</td>
</tr>
<tr>
<td>1.80</td>
<td>-$78.87</td>
<td>-$69.87</td>
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<tr>
<td>2.30</td>
<td>-$54.24</td>
<td>-$42.74</td>
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<tr>
<td>3.30</td>
<td>-$5.00</td>
<td>$11.50</td>
</tr>
<tr>
<td>3.80</td>
<td>$19.63</td>
<td>$38.63</td>
</tr>
</tbody>
</table>

**Assumptions**
1. Oats and alfalfa planted in late April and harvested in September.
2. Interest computed on land preparation and planting costs for 10 months and fertilization/herbicide/irrigation costs for 4 months.
3. Custom rates for all field operations.
4. Only owned machinery are a loader and truck.

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