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

### Cache County

#### Receipts

<table>
<thead>
<tr>
<th>Items</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>2.5</td>
<td>tons</td>
<td>$67.67</td>
<td>$169.17</td>
<td>$169.17</td>
<td>$169.17</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>$169.17</td>
<td>$169.17</td>
<td>$169.17</td>
</tr>
</tbody>
</table>

#### Operating costs

- **Land preparation**
  - Plowing: 1 acre, $5.88
  - Roller harrow: 1 acre, $3.64
  - Land plane: 1 acre, $3.34
  - Discing: 1 acre, $3.73
  - Planting: 1 acre, $2.96
- **Seed**: 90 pounds, $0.17
- **Fertilization**
  - Nitrogen (34-0-0): 294 pounds, $0.18
  - Phosphate (11-52-0): 48 pounds, $0.18
  - Custom application: 1 acre, $7.82
- **Pesticides/herbicides**
  - 2-4-D: 1.25 pint, $2.75
  - Custom application: 1 acre, $7.82
- **Irrigation (wheel line)**
  - Labor: 1.00 hours, $10.00
  - Water assessment: 1 share, $10.00
  - Repairs/maintenance: 1 acre, $2.30
  - Pumping: 23 acre inch, $0.00
- **Harvesting**
  - Swathing: 1 acre, $4.03
  - Turning/raking: 1 acre, $1.39
  - Baling: 2.50 tons, $4.79
  - Hauling/stacking: 2.50 tons, $3.63
- **Interest on operating capital**: 7.61%, $4.81

**Subtotal** $168.57

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

- Farm insurance: 1 acre, $2.00
- Machinery ownership costs: 1 acre, $88.71
- Irrigation equipment: 1 acre, $8.25

**Total costs** $267.53

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

- Above operating costs: $0.59
- Above total listed costs: -$98.37

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### Breakeven Table - Oat Hay

Net returns per acre above operating costs

<table>
<thead>
<tr>
<th>Yield (Ton/acre)</th>
<th>Selling Price ($/ton)</th>
<th>57.67</th>
<th>62.67</th>
<th>67.67</th>
<th>72.67</th>
<th>77.67</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.00</td>
<td>-98.28</td>
<td>-93.28</td>
<td>-88.28</td>
<td>-83.28</td>
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<tr>
<td>1.50</td>
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<td>-58.65</td>
<td>-51.15</td>
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<tr>
<td>2.00</td>
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<tr>
<td>2.50</td>
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<td>0.59</td>
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<tr>
<td>3.00</td>
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<tr>
<td>3.50</td>
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</tr>
<tr>
<td>4.00</td>
<td>49.46</td>
<td>69.46</td>
<td>89.46</td>
<td>109.46</td>
<td>129.46</td>
<td></td>
</tr>
</tbody>
</table>

**Assumptions**

1. Oats planted in late April and harvested in early 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.

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