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

## Box Elder County

### Receipts

<table>
<thead>
<tr>
<th>Item</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>2.1</td>
<td>tons</td>
<td>$67.67</td>
<td>$142.10</td>
<td>$142.10</td>
<td>$142.10</td>
</tr>
</tbody>
</table>

### Operating costs

#### Land preparation

- Plowing (every 3rd year) 1/3 acre  
  - $5.88
- Discing w/ packer 1 acre  
  - $3.73
- Land plane 2 acre  
  - $3.34
- Planting 1 acre  
  - $2.96
- Seed 70 pounds  
  - $0.17

#### Fertilization

- Nitrogen (34-0-0) 278 pounds  
  - $0.18
- Phosphate (11-52-0) 48 pounds  
  - $0.18
- Custom application 1 acre  
  - $7.82
- Pesticides/herbicides 2-4-D 1.25 pints  
  - $2.75
- Custom application 1 acre  
  - $7.82

#### Irrigation (Siphon)

- Labor 1.00 hours  
  - $10.00
- Water assessment 1 share  
  - $10.00
- Repairs/maintenance 1 acre  
  - $2.30
- Pumping  
  - $0.00

#### Harvesting

- Swathing 1 acre  
  - $4.03
- Turning/raking 1 acre  
  - $1.39
- Baling 2.10 tons  
  - $4.79
- Hauling/stacking 2.10 tons  
  - $3.63

#### Interest on operating capital

- 7.61%  
  - $3.62

### Ownership costs (excludes cost of land)

<table>
<thead>
<tr>
<th>Item</th>
<th>Value/cost per acre</th>
<th>Base Value</th>
<th>Your Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Farm insurance</td>
<td>$2.00</td>
<td>$2.00</td>
<td>$2.00</td>
</tr>
<tr>
<td>Machinery ownership costs</td>
<td>$67.74</td>
<td>$67.74</td>
<td>$67.74</td>
</tr>
<tr>
<td>Irrigation equipment costs</td>
<td>$8.25</td>
<td>$8.25</td>
<td>$8.25</td>
</tr>
</tbody>
</table>

### Total costs

- $231.54
- $224.83

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

- Above operating costs: -$11.44
- Above total listed costs: -$89.44

## 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>1.35</td>
<td>-$69.38</td>
</tr>
<tr>
<td>1.60</td>
<td>-$57.07</td>
</tr>
<tr>
<td>1.85</td>
<td>-$44.75</td>
</tr>
<tr>
<td>2.10</td>
<td>-$32.44</td>
</tr>
<tr>
<td>2.35</td>
<td>-$20.13</td>
</tr>
<tr>
<td>2.60</td>
<td>-$7.82</td>
</tr>
<tr>
<td>2.85</td>
<td>$4.49</td>
</tr>
</tbody>
</table>

### Assumptions

1. Grain 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 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.

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