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

**Emery 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>2.1</td>
<td>tons</td>
<td>$67.67</td>
<td>$142.10</td>
<td>$142.10</td>
<td></td>
</tr>
<tr>
<td>Alfalfa</td>
<td>1.0</td>
<td>tons</td>
<td>$88.57</td>
<td>$88.57</td>
<td>$88.57</td>
<td></td>
</tr>
<tr>
<td><strong>Subtotal</strong></td>
<td></td>
<td></td>
<td></td>
<td>$230.67</td>
<td>$230.67</td>
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</tr>
</tbody>
</table>

### Operating costs

**Land preparation**
- Plowing: 1 acre = $22.78
- Roller harrow: 2 acres = $11.50
- Land plane: 2 acres = $11.56
- Discing: 1 acre = $11.56
- Planting: 1 acre = $12.71

**Seed**
- Oat seed: 40 pounds = $0.17
- Alfalfa seed: 15 pounds = $2.52

**Fertilization**
- Phosphate (11-52-0): 96 pounds = $0.18

**Pesticides/herbicides**
- Roundup: 0.5 quart = $6.32
- Custom application: 1 acre = $7.82
- Irrigation (wheel line): 4 irrigations = $10.00
- Labor: 1.33 hours = $13.33
- Water assessment: 1 share = $10.00
- Repairs/maintenance: 1 acre = $2.30
- Pumping: 44 acre inch = $0.00

**Harvesting**
- Swathing: 2 acres = $15.56
- Turning/raking: 2 acres = $4.69
- Baling: 3.10 tons = $4.79
- Hauling/stacking: 3.10 tons = $3.63

**Ownership costs (excludes cost of land)**
- Insurance: 1 acre = $2.00
- Machinery ownership costs: 1 acre = $37.92
- Irrigation equipment costs: 1 acre = $8.25

**Total costs**
- $331.09
- $396.37

Net returns to owner for unpaid labor, management, equity and risk
- Above operating costs: $-52.25
- Above total listed costs: $-100.42

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**Breakeven Table - Oat Hay**

<table>
<thead>
<tr>
<th>Selling Price ($/ton)</th>
<th>0.60</th>
<th>1.10</th>
<th>1.60</th>
<th>2.10</th>
<th>2.60</th>
<th>3.10</th>
<th>3.60</th>
</tr>
</thead>
<tbody>
<tr>
<td>($/ton)</td>
<td>$57.67</td>
<td>$62.67</td>
<td>$67.67</td>
<td>$72.67</td>
<td>$77.67</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$57.67</td>
<td>-$138.70</td>
<td>-$135.70</td>
<td>-$132.70</td>
<td>-$129.70</td>
<td>-$126.70</td>
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<tr>
<td>$62.67</td>
<td>-$114.07</td>
<td>-$108.57</td>
<td>-$103.07</td>
<td>-$97.57</td>
<td>-$92.07</td>
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</tr>
<tr>
<td>$67.67</td>
<td>-$89.45</td>
<td>-$81.45</td>
<td>-$73.45</td>
<td>-$65.45</td>
<td>-$57.45</td>
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<td></td>
</tr>
<tr>
<td>$72.67</td>
<td>-$64.83</td>
<td>-$54.33</td>
<td>-$43.83</td>
<td>-$33.33</td>
<td>-$22.83</td>
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<tr>
<td>$77.67</td>
<td>-$40.20</td>
<td>-$27.20</td>
<td>-$14.20</td>
<td>-$1.20</td>
<td>$11.80</td>
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<td></td>
</tr>
<tr>
<td>$8.25</td>
<td>-$15.58</td>
<td>-$0.08</td>
<td>$15.42</td>
<td>$30.92</td>
<td>$46.42</td>
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<tr>
<td>$15.04</td>
<td>-$9.04</td>
<td>$27.04</td>
<td>$45.04</td>
<td>$63.04</td>
<td>$81.04</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Assumptions**
1. Grain planted in May and harvested in July.
2. Interest computed on land preparation and planting costs for 10 months and fertilization/herbicides/irrigation costs for 6 months.
3. Custom rates for all field operations.
4. Only owned machinery are a loader and truck.

Budget prepared by: E. Bruce Godfrey, Cody Bingham and Dennis Worwood
2. Interest computed on land preparation and planting costs for 10 months and fertilization/herbicides/irrigation costs for 6 months.