## Northeastern Colorado - Irrigated Alfalfa

### Estimated Production Costs & Returns

#### Gross Receipts from Production

<table>
<thead>
<tr>
<th>GROSS RECEIPTS</th>
<th>UNIT</th>
<th>PRICE</th>
<th>YIELD</th>
<th>PER ACRE</th>
<th>PER TON</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alfalfa (Round Bales)</td>
<td>tons</td>
<td>$203.75</td>
<td>6</td>
<td>$1,223</td>
<td>$203.75</td>
</tr>
<tr>
<td>Your Farm</td>
<td>tons</td>
<td>$0.00</td>
<td></td>
<td>$0.00</td>
<td>$0.00</td>
</tr>
</tbody>
</table>

Gross Receipts $1,223 $0

#### Direct Costs

- **Operating Pre-Harvest**
  - Seed: Establishment Allocation (5 yrs) dollars 34.03 1.00 34.03 5.67
  - Crop Protection:
    - Fertilizer dollars 64.63 1 64.63 10.77
    - Herbicide acre 24.15 1 24.15 4.03
    - Custom Application dollars 7.00 1 7.00 1.17
    - Insecticide dollars 17.31 1 17.31 2.89
  - Irrigation:
    - Irrigation Energy dollars 70.34 1 70.34 11.72
    - Irrigation Repairs acre 11.58 1 11.58 1.93
    - Sprinkler Lease dollars 67.20 1 67.20 11.20
    - Custom Aerial Spray dollars 7.50 1 7.50 1.25
    - Interest (6 months @ 6.25%) dollars 9.49 1 9.49 1.58

Total Pre-Harvest Expenses $313.23 $52.21 $0.00

- **Harvest Costs**
  - Fuel dollars 2.70 1 2.70 0.45
  - Repair & Maintenance dollars 9.12 1 9.12 1.52
  - Labor dollars 4.74 1 4.74 0.79
  - Baling\(^1\) dollars 96.00 1 96.00 16.00
  - Hauling/Stacking\(^2\) dollars 28.00 1 28.00 4.67

Total Harvest Costs $140.56 $23.43 $0.00

Total Operating Costs $453.79 $75.63 $0.00

- **Property & Ownership Costs**
  - General Farm Overhead dollars 10.10 1 10.10 1.68
  - Machinery Ownership Costs dollars 54.37 1 16.43 2.74
  - Real Estate Taxes dollars 16.66 1 16.66 2.78

Total Property & Ownership Costs $43.19 $7.20 $0.00

TOTAL DIRECT COSTS $496.98 $82.83 $0.00

**Net Receipts Before Factor Payments** $725.52 $120.92 $0.00

**Factor Payments**
- Land ($4,600 @ 4%) 184.00 30.67

RETURN TO MANAGEMENT & RISK $541.52 $90.25 $0.00

1 Baling= $12/Bale (Round Baler)
2 Hauling/Stacking= $3.50/Bale
3 Interest on Operating Capital is calculated on 1/2 of pre-harvest operating costs at 6.25%

### Breakeven Analysis - Per Acre Returns Over Total Direct Costs ($/Acre)

<table>
<thead>
<tr>
<th>ALTERNATIVE PRICES ($/ton)</th>
<th>-25%</th>
<th>-10%</th>
<th>10%</th>
<th>25%</th>
</tr>
</thead>
<tbody>
<tr>
<td>$152.81</td>
<td>$183.38</td>
<td>$203.75</td>
<td>$224.13</td>
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<tr>
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<td>$1,183.96</td>
<td>$1,413.17</td>
</tr>
</tbody>
</table>

**Alternative Prices ($/ton)**

- **-25%** 5.40
- **-10%** 4.50
- **10%** 2.50