Costs and Returns per acre from growing barley, 2006
Juab County

Receipts

<table>
<thead>
<tr>
<th></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>Barley</td>
<td>56.0</td>
<td>bushels</td>
<td>$2.27</td>
<td>$126.90</td>
<td>$126.90</td>
<td></td>
</tr>
<tr>
<td>Straw</td>
<td>0.70</td>
<td>tons</td>
<td>$43.00</td>
<td>$30.10</td>
<td>$30.10</td>
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</tr>
</tbody>
</table>

Subtotal $157.00 $157.00

Operating costs

Land preparation
- Plowing 1 acre $5.88 $5.88 $5.88
- Discing 1 acre $3.73 $3.73 $3.73
- Land plane 1 acre $3.34 $3.34 $3.34
- Roller harrow 2 acre $3.64 $7.28 $7.28
- Planting 1 acre $2.96 $2.96 $2.96
- Seed 100 pounds $0.17 $17.00 $17.00
Fertilization
- Nitrogen (34-0-0) 278 pounds $0.18 $49.62 $49.62
- Phosphate (11-52-0) 48 pounds $0.18 $8.57 $8.57
- Custom application 1 acre $7.82 $7.82 $7.82
Pesticides/herbicides
- 2-4-D 1.25 pint $2.75 $3.44 $3.44
- Puma 0.67 pint $25.00 $16.75 $16.75
- Custom application 1 acre $7.82 $7.82 $7.82
Irrigation (wheel line) 2 irrigations $10.00 $6.67 $6.67
Labor 0.67 hours $10.00 $6.67 $6.67
Water assessment 1 share $30.00 $30.00 $30.00
Repairs/maintenance 1 acre $2.30 $2.30 $2.30
Pumping 25 acre inch $0.00 $0.00 $0.00
Harvesting
- Custom combine 1 acre $26.00 $26.00 $26.00
- Haul grain (custom) 56.0 bushel $0.06 $3.36 $3.36
- Baling 0.70 tons $4.79 $3.35 $3.35
- Haul/stack straw 0.70 tons $3.63 $2.54 $2.54
Crop insurance (75% Yield, 100% Price) 1 acre $9.17 $9.17 $9.17
Interest on operating capital 7.51% $4.06 $4.06

Subtotal $221.67 $222.52

Ownership costs (excludes cost of land)
- Insurance 1 acre $2.00 $2.00 $2.00
- Machinery ownership cost 1 acre $58.83 $58.83 $58.83
- Irrigation equipment costs 1 acre $8.25 $8.25 $8.25

Total costs $290.75 $291.60

Net returns to owner for unpaid labor, management, equity and risk
- Above operating costs -$64.67 -$65.52
- Above total listed costs -$133.76 -$134.61

Breakeven Table - Barley
Net returns per acre above operating costs

<table>
<thead>
<tr>
<th>Yield (Bu/Ac)</th>
<th>$1.27</th>
<th>$1.77</th>
<th>$2.27</th>
<th>$2.77</th>
<th>$3.27</th>
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</thead>
<tbody>
<tr>
<td>41.00</td>
<td>-$138.76</td>
<td>-$118.26</td>
<td>-$97.76</td>
<td>-$77.26</td>
<td>-$56.76</td>
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<tr>
<td>46.00</td>
<td>-$152.73</td>
<td>-$109.73</td>
<td>-$86.73</td>
<td>-$63.73</td>
<td>-$40.73</td>
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<tr>
<td>51.00</td>
<td>-$156.70</td>
<td>-$101.20</td>
<td>-$75.70</td>
<td>-$50.20</td>
<td>-$24.70</td>
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<tr>
<td>56.00</td>
<td>-$120.67</td>
<td>-$92.67</td>
<td>-$64.67</td>
<td>-$36.67</td>
<td>-$8.67</td>
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<tr>
<td>61.00</td>
<td>-$114.64</td>
<td>-$84.14</td>
<td>-$53.64</td>
<td>-$23.14</td>
<td>$7.36</td>
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<tr>
<td>66.00</td>
<td>-$108.61</td>
<td>-$75.61</td>
<td>-$42.61</td>
<td>-$9.61</td>
<td>$23.39</td>
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<tr>
<td>71.00</td>
<td>-$102.58</td>
<td>-$67.08</td>
<td>-$31.58</td>
<td>$3.92</td>
<td>$39.42</td>
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</table>

Assumptions
1. Grain planted in late March and harvested in early August.
2. Interest computed on land preparation and planting costs for 6 months and fertilization/herbicides/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.

Budget prepared by: E. Bruce Godfrey, Cody Bingham and Jeff Banks