Onion Budget 2011
Utah State University, Cooperative Extension

<table>
<thead>
<tr>
<th>Receipts</th>
<th>Unit</th>
<th># of Units</th>
<th>Price/cost per unit</th>
<th>Value/cost per acre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Super Colossals*</td>
<td>50 lb sack</td>
<td>195</td>
<td>$8.50</td>
<td>$1,657.50</td>
</tr>
<tr>
<td>Colossals</td>
<td>50 lb sack</td>
<td>123</td>
<td>$6.50</td>
<td>$799.50</td>
</tr>
<tr>
<td>Jumbos</td>
<td>50 lb sack</td>
<td>816</td>
<td>$5.50</td>
<td>$4,488.00</td>
</tr>
<tr>
<td>Medium</td>
<td>50 lb sack</td>
<td>622</td>
<td>$5.50</td>
<td>$3,421.00</td>
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<tr>
<td>Residue</td>
<td>50 lb sack</td>
<td>40</td>
<td>$0.00</td>
<td>$0.00</td>
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<tr>
<td>Total Receipts</td>
<td></td>
<td></td>
<td></td>
<td>$10,366.00</td>
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</tbody>
</table>

Operating Expenses

Land preparation
- Plowing          acre 1  $23.25  $23.25
- Discing         acre 2  $13.50  $27.00
- Land plane      acre 2  $13.57  $27.14
- Bedding         acre 1  $10.00  $10.00
- Bed Fitting     acre 1  $10.00  $10.00
- Planting        acre 1  $13.50  $13.50

Seed
- Raw seed        thousands 150 $1.90  $285.00
- Pelleting       thousands 150 $0.25  $37.50
- Additional seed treatments * thousands 150 $0.30  $45.00

Fertilization
- Nitrogen        units 250 $0.80  $200.00
- Phosphate       units 100 $0.82  $82.00
- Potash          units 100 $0.60  $60.00
- Micro Nutrients units 5 $3.50  $17.50
- Custom application acre 2 $6.00  $12.00

Herbicides
- Roundup 4L    pint 5  $2.88  $14.38
- Goaltender 4sc pint 1  $11.00  $11.00
- Buctril 4ec   pint 0.33 $5.88  $1.94
- Prowl H2O     pint 2  $5.31  $10.63
- Select Max 0.97e pint 1 $12.75  $12.75
- Custom application spray 5 $6.00  $30.00

Pesticides
- Permethrin (Ammo, Warrior, Ambush) pints 1.13 $13.38  $15.11
- Lannate       pints 3  $9.81  $29.44
- Success        pints 0.38 $8.00  $3.00
- Radiant        pints 0.38 $92.50  $35.15
- Movento        pints 0.625 $112.50  $70.31
- Pencap         pints 2  $5.13  $10.25
- Custom application spray 6  $6.00  $36.00

Fungicide
- Pristine      pound 1  $48.00  $48.00

Cultivation
- 1st cultivating acre 1  $12.29  $12.29
- 2nd and 3rd cultivating acre 2  $12.29  $24.58
- Hand weeding hours 30  $10.00  $300.00
Irrigation (siphon) irrigations 12
Labor hours 2.40 $10.00 $24.00
Water assessment share 1 $15.00 $15.00
Repairs/maintenance acre 1 $1.00 $1.00
Pumping acre inch - $0.00 $0.00
Harvesting
Undercutting acre 1 $16.73 $16.73
Topping acre 1 $36.75 $36.75
Loading acre 1 $68.38 $68.38
Trucking 50 lb sack 1,756 $0.03 $52.68
Grading and packing 50 lb sack 1,756 $2.00 $3,512.00
Storage 50 lb sack 1,756 $0.50 $878.00
Sales commission receipts 12% $10,366.00 $1,243.92
Crop insurance (75% Yield, 100% Price) acre 1 $242.00 $242.00
Interest on operating capital 7.00% $35.58
Total Operating Expenses $7,640.74
Ownership Expenses (excludes cost of land)
Farm insurance, business, and office acre 1 $18.00 $18.00
Machinery ownership costs acre 1 $175.05 $175.05
Irrigation ownership costs acre 1 $10.00 $10.00
Total Ownership Expenses $203.05
Total Expenses $8,440.24
Income Above Operating Expenditures: $2,725.26
Returns to Operator Labor, Management and Equity $1,925.76

Breakeven Table - Dry Onions
Returns to Operator Labor, Management and Equity

<table>
<thead>
<tr>
<th>Yield (sacks/AC)</th>
<th>-25%</th>
<th>-10%</th>
<th>Base</th>
<th>10%</th>
<th>25%</th>
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<tbody>
<tr>
<td></td>
<td>$4.43</td>
<td>$5.31</td>
<td>$5.90</td>
<td>$6.49</td>
<td>$7.38</td>
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<tr>
<td>-25%</td>
<td>$2,609</td>
<td>$1,443</td>
<td>$666</td>
<td>$112</td>
<td>$1,278</td>
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<tr>
<td>-10%</td>
<td>$1,443</td>
<td>$44</td>
<td>$889</td>
<td>$1,822</td>
<td>$3,222</td>
</tr>
<tr>
<td>Base</td>
<td>$666</td>
<td>$889</td>
<td>$1,926</td>
<td>$2,962</td>
<td>$4,517</td>
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<tr>
<td>10%</td>
<td>$112</td>
<td>$1,822</td>
<td>$2,962</td>
<td>$4,103</td>
<td>$5,813</td>
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<tr>
<td>25%</td>
<td>$1,278</td>
<td>$3,222</td>
<td>$4,517</td>
<td>$5,813</td>
<td>$7,757</td>
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</table>

Assumptions
1. Onion prices are from Idaho and Malheur County, Oregon for Yellow Spanish Hybrid 50 lb sack, spring 2011.
2. Onion yields were based on the mean yield value for 2011 variety trials at USU.
3. Onions planted in late March and harvested in September.
4. Interest computed on land preparation and planting costs for 6 months and fertilization/herbicide/irrigation/cultivation costs for 3 months.
5. Machinery operating costs are based on custom operator rates for 2010.
6. Fungicides would be in tanks mixed with the insecticides.
7. Onion equipment ownership costs are for harvesting and allocated to onion acreage only.
8. Seed treatments can include insecticidal, fungicidal and micro nutrients. Prices range from additional 13 cents to 50 cents.

Budget prepared by: Dan Drost and Ruby Ward