# 2014 Estimated Costs and Returns per Acre

**Grapefruit, Year 8+, Mature Orchard, Flood Irrigated, Rio Grande Valley**

- **Crop Acres**: 100
- **South Extension District - 12**

## Revenue

<table>
<thead>
<tr>
<th>Crop</th>
<th>Quantity</th>
<th>Units</th>
<th>$/Unit</th>
<th>Total</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grapefruit (Rio Red)</td>
<td>23.00</td>
<td>Ton</td>
<td>$120.00</td>
<td>$2,760.00</td>
<td>$276,000.00</td>
</tr>
<tr>
<td>Total Revenue</td>
<td></td>
<td></td>
<td></td>
<td>$2,760.00</td>
<td>$276,000.00</td>
</tr>
</tbody>
</table>

## Variable Costs

### Production Costs

#### Fertilizer
- Ammonium Sulfate (21% N) | 3.57 | CWT | $20.70 | $73.90 | $7,389.90
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#### Herbicide
- Simazine 4L | 1.25 | Gallon | $22.88 | $28.60 | $2,860.00
- Krovar I 80 DF | 3 | Pound | $13.50 | $40.50 | $405.00

#### Insecticide
- Vydate | 0.0625 | Gallon | $166.24 | $6.44 | $664.00
- Vendex | 2 | Pound | $18.53 | $37.06 | $3,706.00
- Lorsban 4E | 2 | Pint | $4.76 | $9.52 | $952.00

#### Other Chemicals
- Surfactant - Citrus | 1 | Pint | $1.25 | $1.25 | $125.00
- Insurance, Established Grapefruit | 1 | Acre | $115.00 | $115.00 | $11,500.00

#### Miscellaneous
- Hedging or Topping | 1 | Acre | $46.00 | $46.00 | $460.00
- Custom Orchard Spray | 1 | Acre | $38.50 | $38.50 | $385.00
- Custom Orchard Spray | 1 | Acre | $38.50 | $38.50 | $385.00
- Lorsban 4E | 4 | Pint | $4.76 | $19.04 | $1,904.00

#### Irrigation
- Energy or Water Cost | 1.20 | Acre/Foot | $20.00 | $24.00 | $2,400.00
- Irrigation Labor | 3.00 | Hour | $9.00 | $27.00 | $2,700.00

#### Other Labor
- Unallocated Labor | 0.0122 | Hour | $9.00 | $0.11 | $10.98

### Machinery Costs

#### Machinery Depreciation
- Tractors/Self-Propelled | 1 | Acre | $1.08 | $1.08 | $107.87
- Implements | 1 | Acre | $0.28 | $0.28 | $27.67

#### Equipment Investment
- Tractors/Self-Propelled | $15.10 | Dollars | 9.00% | $1.36 | $135.91
- Implements | $2.21 | Dollars | 9.00% | $0.20 | $19.92
- Allocated Establishment Cost | 1 | Acre | $254.04 | $254.04 | $25,404.00
- Land Cost, Orchard | 1 | Acre | $120.00 | $120.00 | $12,000.00

### Total Variable Costs

| Total Variable Costs | $812.75 | $81,275.37 |

### Planned Returns Above Variable Costs

| Planned Returns Above Variable Costs | $1,947.25 | $194,724.63 |

### Breakeven Price to Cover Variable Costs

| Breakeven Price to Cover Variable Costs | $35.34 | Ton |

## Fixed Costs

### Machinery Depreciation
- Tractors/Self-Propelled | 1 | Acre | $1.08 | $1.08 | $107.87
- Implements | 1 | Acre | $0.28 | $0.28 | $27.67

### Equipment Investment
- Tractors/Self-Propelled | $15.10 | Dollars | 9.00% | $1.36 | $135.91
- Implements | $2.21 | Dollars | 9.00% | $0.20 | $19.92
- Allocated Establishment Cost | 1 | Acre | $254.04 | $254.04 | $25,404.00
- Land Cost, Orchard | 1 | Acre | $120.00 | $120.00 | $12,000.00

### Total Fixed Costs

| Total Fixed Costs | $976.95 | $97,695.37 |

### Total Specified Costs

| Total Specified Costs | $1,189.71 | $118,970.74 |

### Returns Above Specified Costs

| Returns Above Specified Costs | $1,570.29 | $157,029.26 |

### Breakeven Price to Cover Total Costs

| Breakeven Price to Cover Total Costs | $51.73 | Ton |

## Example Breakeven Prices

### Example Breakeven Prices

<table>
<thead>
<tr>
<th>Example Yield</th>
<th>Example Price Needed to Cover</th>
<th>Price Needed to Cover</th>
</tr>
</thead>
<tbody>
<tr>
<td>Percent</td>
<td>Yield</td>
<td>Rent Share</td>
</tr>
<tr>
<td>75%</td>
<td>17.25</td>
<td>$47.12</td>
</tr>
<tr>
<td>90%</td>
<td>20.70</td>
<td>$39.26</td>
</tr>
<tr>
<td>100%</td>
<td>23.00</td>
<td>$39.26</td>
</tr>
<tr>
<td>110%</td>
<td>25.30</td>
<td>$39.26</td>
</tr>
<tr>
<td>125%</td>
<td>28.75</td>
<td>$39.26</td>
</tr>
</tbody>
</table>

Information presented is prepared solely as a general guide and not intended to recognize or predict the costs and returns from any one operation. Brand names are mentioned only as examples and imply no endorsement.