

**Projections for Planning Purposes Only -- Not to be Used without Updating**  
**2014 Estimated Costs and Returns per Acre**  
**Grapefruit, Year 8+, Mature Orchard, Flood Irrigated, Rio Grande Valley - 100 Acres**  
**South Extension District - 12**

Crop Acres		100				Enterprise
REVENUE	Quantity	Units	\$/Unit	Total	Total	
Grapefruit (Rio Red)	23.00	Ton	\$120.00	\$2,760.00	\$276,000.00	
<b>Total Revenue</b>				<b>\$2,760.00</b>	<b>\$276,000.00</b>	
VARIABLE COSTS	Quantity	Units	\$/Unit	Total	Enterprise	
<b>Production Costs</b>						
<b>Fertilizer</b>						
Ammonium Sulfate (21% N)	3.57	CWT	\$20.70	\$73.90	\$7,389.90	
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<b>Herbicide</b>						
Simazine 4L	1.25	Gallon	\$22.88	\$28.60	\$2,860.00	
Krovar I 80 DF	3	Pound	\$13.50	\$40.50	\$4,050.00	
<b>Insecticide</b>						
Vydate	0.0625	Gallon	\$106.24	\$6.64	\$664.00	
Vendex	2	Pound	\$18.53	\$37.06	\$3,706.00	
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Lorsban 4E	4	Pint	\$4.76	\$19.04	\$1,904.00	
Citrus Oil	5	Gallon	\$3.42	\$17.10	\$1,710.00	
Agri-Mek	0.1	Gallon	\$108.16	\$10.82	\$1,081.60	
Vendex	2	Pound	\$18.53	\$37.06	\$3,706.00	
Lorsban 4E	4	Pint	\$4.76	\$19.04	\$1,904.00	
<b>Other Chemicals</b>						
Surfactant - Citrus	1	Pint	\$1.25	\$1.25	\$125.00	
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<b>Miscellaneous</b>						
Insurance, Established Grapefruit	1	Acre	\$115.00	\$115.00	\$11,500.00	
<b>Custom</b>						
Hedging or Topping	0.5	Acre	\$66.00	\$33.00	\$3,300.00	
Custom Fertilize Citrus	1	Acre	\$4.40	\$4.40	\$440.00	
Custom Orchard Spray	1	Acre	\$38.50	\$38.50	\$3,850.00	
Custom Orchard Spray	1	Acre	\$38.50	\$38.50	\$3,850.00	
Custom Orchard Spray	1	Acre	\$38.50	\$38.50	\$3,850.00	
Custom Fertilize Citrus	1	Acre	\$4.40	\$4.40	\$440.00	
Custom Orchard Spray	1	Acre	\$38.50	\$38.50	\$3,850.00	
<b>Irrigation</b>						
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	
<b>Other Labor</b>						
Unallocated Labor	0.0122	Hour	\$9.00	\$0.11	\$10.98	
<b>Machinery Labor</b>						
Tractors/Self-Propelled	0.18	Hour	\$9.00	\$1.62	\$162.00	
<b>Diesel Fuel</b>						
Tractors/Self-Propelled	0.94	Gallon	\$3.25	\$3.06	\$305.50	
<b>Repairs &amp; Maintenance</b>						
Tractors/Self-Propelled	1	Acre	\$0.65	\$0.65	\$64.72	
Implements	1	Acre	\$0.28	\$0.28	\$27.67	
Interest on Credit Line			9.00%	\$42.03	\$4,203.10	
<b>Total Variable Costs</b>				<b>\$812.75</b>	<b>\$81,275.37</b>	
<b>Planned Returns Above Variable Costs:</b>				<b>\$1,947.25</b>	<b>\$194,724.63</b>	
<b>Breakeven Price to Cover Variable Costs</b>			<b>\$35.34</b>	<b>Ton</b>		
FIXED COSTS	Quantity	Units	\$/Unit	Total	Enterprise	
<b>Machinery Depreciation</b>						
Tractors/Self-Propelled	1	Acre	\$1.08	\$1.08	\$107.87	
Implements	1	Acre	\$0.28	\$0.28	\$27.67	
<b>Equipment Investment</b>						
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	
<b>Total Fixed Costs</b>				<b>\$376.95</b>	<b>\$37,695.37</b>	
<b>Total Specified Costs</b>				<b>\$1,189.71</b>	<b>\$118,970.74</b>	
<b>Returns Above Specified Costs</b>				<b>\$1,570.29</b>	<b>\$157,029.26</b>	
<b>Breakeven Price to Cover Total Costs</b>			<b>\$51.73</b>	<b>Ton</b>		

Example Breakeven Prices						
Example Yield Percent	Example Yield Ton	Price Needed to Cover Example Variable Costs		Price Needed to Cover Example Total Costs		
		Own/Rent	Share/Tenant	Own/Rent	Share/Tenant	Landlord
75%	17.25	\$47.12	\$47.12	\$68.97	\$68.97	\$0.00
90%	20.70	\$39.26	\$39.26	\$57.47	\$57.47	\$0.00
100%	23.00	\$35.34	\$35.34	\$51.73	\$51.73	\$0.00
110%	25.30	\$32.12	\$32.12	\$47.02	\$47.02	\$0.00
125%	28.75	\$28.27	\$28.27	\$41.38	\$41.38	\$0.00

Developed by Luis Ribera, Associate Professor and Extension Economist, Texas A&M AgriLife Extension.

**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.**