

**Projections for Planning Purposes Only -- Not to be Used without Updating**  
**2014 Estimated Costs and Returns per Acre**  
**Grapefruit, Year 2, Orchard Establishment, Flood Irrigated, Rio Grande Valley - 100 Acres**  
**South Extension District - 12**

Crop Acres		100				Enterprise
REVENUE	Quantity	Units	\$/Unit	Total		Total
Grapefruit (Rio Red)	0.20	Ton	\$120.00	\$24.00		\$2,400.00
<b>Total Revenue</b>				<b>\$24.00</b>		<b>\$2,400.00</b>
VARIABLE COSTS	Quantity	Units	\$/Unit	Total		Enterprise Total
<b>Production Costs</b>						
<b>Fertilizer</b>						
Ammonium Sulfate (21% N)	1.71	CWT	\$20.70	\$35.40		\$3,539.70
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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, Grapefruit, Year 2	1	Acre	\$70.00	\$70.00		\$7,000.00
<b>Custom</b>						
Tree Replacement	1	Tree	\$12.00	\$12.00		\$1,200.00
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%	\$32.86		\$3,286.24
<b>Total Variable Costs</b>				<b>\$660.58</b>		<b>\$66,058.11</b>
<b>Planned Returns Above Variable Costs:</b>				<b>(\$636.58)</b>		<b>(\$63,658.11)</b>
<b>Breakeven Price to Cover Variable Costs</b>			\$3,302.91	Ton		
FIXED COSTS	Quantity	Units	\$/Unit	Total		Enterprise Total
<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>\$1,037.53</b>		<b>\$103,753.48</b>
<b>Returns Above Specified Costs</b>				<b>(\$1,013.53)</b>		<b>(\$101,353.48)</b>
<b>Breakeven Price to Cover Total Costs</b>			\$5,187.67	Ton		

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%	0.15	\$4,403.87	\$4,403.87	\$6,916.90	\$6,916.90	\$0.00
90%	0.18	\$3,669.90	\$3,669.90	\$5,764.08	\$5,764.08	\$0.00
100%	0.20	\$3,302.91	\$3,302.91	\$5,187.67	\$5,187.67	\$0.00
110%	0.22	\$3,002.64	\$3,002.64	\$4,716.07	\$4,716.07	\$0.00
125%	0.25	\$2,642.32	\$2,642.32	\$4,150.14	\$4,150.14	\$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.**