

**Projections for Planning Purposes Only -- Not to be Used without Updating**  
**2015 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	Total
Grapefruit (Rio Red)	0.20	Ton	\$120.00	\$24.00	\$2,400.00	\$2,400.00
<b>Total Revenue</b>				<b>\$24.00</b>	<b>\$2,400.00</b>	<b>\$2,400.00</b>
VARIABLE COSTS	Quantity	Units	\$/Unit	Total	Total	Enterprise
<b>Production Costs</b>						
<b>Fertilizer</b>						
Ammonium Sulfate (21% N)	3.42	CWT	\$18.60	\$63.61	\$6,361.20	\$6,361.20
<b>Custom</b>						
Tree Replacement	1	Tree	\$15.00	\$15.00	\$1,500.00	\$1,500.00
Custom Fertilize Citrus	2	Acre	\$4.40	\$8.80	\$880.00	\$880.00
Custom Orchard Spray	4	Acre	\$38.50	\$154.00	\$15,400.00	\$15,400.00
<b>Miscellaneous</b>						
Insurance, Grapefruit, Year 2	1	Acre	\$70.00	\$70.00	\$7,000.00	\$7,000.00
<b>Herbicide</b>						
Simazine 4L	1.25	Gallon	\$25.36	\$31.70	\$3,170.00	\$3,170.00
Krovar I 80 DF	3	Pound	\$14.25	\$42.75	\$4,275.00	\$4,275.00
<b>Insecticide</b>						
Vydate	0.0625	Gallon	\$113.93	\$7.12	\$712.06	\$712.06
Vendex	6	Pound	\$19.23	\$115.38	\$11,538.00	\$11,538.00
Lorsban 4E	8	Pint	\$5.63	\$45.04	\$4,504.00	\$4,504.00
Citrus Oil	5	Gallon	\$4.30	\$21.50	\$2,150.00	\$2,150.00
Agri-Mek	0.1	Gallon	\$129.23	\$12.92	\$1,292.30	\$1,292.30
<b>Other Chemicals</b>						
Surfactant - Citrus	2	Pint	\$3.60	\$7.20	\$720.00	\$720.00
<b>Other Labor</b>						
Unallocated Labor	0.0122	Hour	\$9.00	\$0.11	\$10.98	\$10.98
<b>Irrigation</b>						
Water Cost	1.20	Acre/Foot	\$20.00	\$24.00	\$2,400.00	\$2,400.00
Irrigation Labor	3.00	Hour	\$9.00	\$27.00	\$2,700.00	\$2,700.00
<b>Machinery Labor</b>						
Tractors/Self-Propelled	0.24	Hour	\$9.00	\$2.16	\$216.00	\$216.00
<b>Diesel Fuel</b>						
Tractors/Self-Propelled	1.21	Gallon	\$3.00	\$3.63	\$363.00	\$363.00
<b>Repairs &amp; Maintenance</b>						
Tractors/Self-Propelled	1	Acre	\$2.33	\$2.33	\$232.91	\$232.91
Implements	1	Acre	\$0.35	\$0.35	\$34.77	\$34.77
Interest on Credit Line			9.00%	\$34.20	\$3,420.12	\$3,420.12
<b>Total Variable Costs</b>				<b>\$688.80</b>	<b>\$68,880.34</b>	<b>\$68,880.34</b>
Planned Returns Above Variable Costs:						
Breakeven Price to Cover Variable Costs			\$3,444.02	Ton		
FIXED COSTS	Quantity	Units	\$/Unit	Total	Total	Enterprise
<b>Machinery Depreciation</b>						
Tractors/Self-Propelled	1	Acre	\$2.41	\$2.41	\$240.67	\$240.67
Implements	1	Acre	\$0.31	\$0.31	\$31.29	\$31.29
<b>Equipment Investment</b>						
Tractors/Self-Propelled	\$27.17	Dollars	9.00%	\$2.45	\$244.55	\$244.55
Implements	\$2.43	Dollars	9.00%	\$0.22	\$21.90	\$21.90
Allocated Establishment Cost	1	Acre	\$254.04	\$254.04	\$25,404.00	\$25,404.00
Land Cost, Orchard	1	Acre	\$120.00	\$120.00	\$12,000.00	\$12,000.00
<b>Total Fixed Costs</b>				<b>\$379.42</b>	<b>\$37,942.42</b>	<b>\$37,942.42</b>
<b>Total Specified Costs</b>				<b>\$1,068.23</b>	<b>\$106,822.76</b>	<b>\$106,822.76</b>
Returns Above Specified Costs						
Breakeven Price to Cover Total Costs			\$5,341.14	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	ShareTenant	Own/Rent	ShareTenant	Landlord
75%	0.15	\$4,592.02	\$4,592.02	\$7,121.52	\$7,121.52	\$0.00
90%	0.18	\$3,826.69	\$3,826.69	\$5,934.60	\$5,934.60	\$0.00
100%	0.20	\$3,444.02	\$3,444.02	\$5,341.14	\$5,341.14	\$0.00
110%	0.22	\$3,130.92	\$3,130.92	\$4,855.58	\$4,855.58	\$0.00
125%	0.25	\$2,755.21	\$2,755.21	\$4,272.91	\$4,272.91	\$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.**