

**Projections for Planning Purposes Only -- Not to be Used without Updating**  
**2015 Estimated Costs and Returns per Acre**  
**Grapefruit, Year 5, Orchard Establishment, Flood Irrigated, Rio Grande Valley - 100 Acres**  
**South Extension District - 12**

Crop Acres		100				
REVENUE		Quantity	Units	\$/Unit	Total	Enterprise Total
Grapefruit (Rio Red)		9.00	Ton	\$120.00	\$1,080.00	\$108,000.00
Total Revenue					\$1,080.00	\$108,000.00
VARIABLE COSTS		Quantity	Units	\$/Unit	Total	Enterprise Total
Production Costs						
Fertilizer						
	Ammonium Sulfate (21% N)	7.14	CWT	\$18.60	\$132.80	\$13,280.40
Custom						
	Custom Fertilize Citrus	2	Acre	\$4.40	\$8.80	\$880.00
	Custom Orchard Spray	4	Acre	\$38.50	\$154.00	\$15,400.00
Miscellaneous						
	Insurance, Established Grapefruit	1	Acre	\$115.00	\$115.00	\$11,500.00
Insecticide						
	Vydate	0.0625	Gallon	\$113.93	\$7.12	\$712.06
	Vendex	6	Pound	\$19.23	\$115.38	\$11,538.00
	Lorsban 4E	8	Pint	\$5.63	\$45.04	\$4,504.00
	Citrus Oil	5	Gallon	\$4.30	\$21.50	\$2,150.00
	Agri-Mek	0.1	Gallon	\$129.23	\$12.92	\$1,292.30
Herbicide						
	Simazine 4L	1.25	Gallon	\$25.36	\$31.70	\$3,170.00
	Krovar I 80 DF	3	Pound	\$14.25	\$42.75	\$4,275.00
Other Chemicals						
	Surfactant - Citrus	2	Pint	\$3.60	\$7.20	\$720.00
Other Labor						
	Unallocated Labor	0.0122	Hour	\$9.00	\$0.11	\$10.98
Irrigation						
	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
Machinery Labor						
	Tractors/Self-Propelled	0.24	Hour	\$9.00	\$2.16	\$216.00
Diesel Fuel						
	Tractors/Self-Propelled	1.21	Gallon	\$3.00	\$3.63	\$363.00
Repairs & Maintenance						
	Tractors/Self-Propelled	1	Acre	\$2.33	\$2.33	\$232.91
	Implements	1	Acre	\$0.35	\$0.35	\$34.77
Interest on Credit Line				9.00%	\$39.97	\$3,997.38
Total Variable Costs					\$793.77	\$79,376.80
Planned Returns Above Variable Costs:					\$286.23	\$28,623.20
Breakeven Price to Cover Variable Costs				\$88.20	Ton	
FIXED COSTS		Quantity	Units	\$/Unit	Total	Enterprise Total
Machinery Depreciation						
	Tractors/Self-Propelled	1	Acre	\$2.41	\$2.41	\$240.67
	Implements	1	Acre	\$0.31	\$0.31	\$31.29
Equipment Investment						
	Tractors/Self-Propelled	\$27.17	Dollars	9.00%	\$2.45	\$244.55
	Implements	\$2.43	Dollars	9.00%	\$0.22	\$21.90
Allocated Establishment Cost					\$254.04	\$25,404.00
Land Cost, Orchard					\$120.00	\$12,000.00
Total Fixed Costs					\$379.42	\$37,942.42
Total Specified Costs					\$1,173.19	\$117,319.22
Returns Above Specified Costs					(\$93.19)	(\$9,319.22)
Breakeven Price to Cover Total Costs				\$130.35	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%	6.75	\$117.60	\$117.60	\$173.81	\$173.81	\$0.00
90%	8.10	\$98.00	\$98.00	\$144.84	\$144.84	\$0.00
100%	9.00	\$88.20	\$88.20	\$130.35	\$130.35	\$0.00
110%	9.90	\$80.18	\$80.18	\$118.50	\$118.50	\$0.00
125%	11.25	\$70.56	\$70.56	\$104.28	\$104.28	\$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.**