

Projections for Planning Purposes Only -- Not to be Used without Updating
2015 Estimated Costs and Returns per Acre
Grapefruit, Year 4, 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)	6.00	Ton	\$120.00	\$720.00	\$72,000.00
Total Revenue				\$720.00	\$72,000.00
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
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
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
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:				(\$73.77)	(\$7,376.80)
Breakeven Price to Cover Variable Costs			\$132.29	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	1	Acre	\$254.04	\$254.04	\$25,404.00
Land Cost, Orchard	1	Acre	\$120.00	\$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				(\$453.19)	(\$45,319.22)
Breakeven Price to Cover Total Costs			\$195.53	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%	4.50	\$176.39	\$176.39	\$260.71	\$260.71	\$0.00
90%	5.40	\$146.99	\$146.99	\$217.26	\$217.26	\$0.00
100%	6.00	\$132.29	\$132.29	\$195.53	\$195.53	\$0.00
110%	6.60	\$120.27	\$120.27	\$177.76	\$177.76	\$0.00
125%	7.50	\$105.84	\$105.84	\$156.43	\$156.43	\$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.