

Projections for Planning Purposes Only -- Not to be Used without Updating
2016 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			
					Enterprise
REVENUE	Quantity	Units	\$/Unit	Total	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	\$18.25	\$130.31	\$13,030.50
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					
Vendex	6	Pound	\$36.00	\$216.00	\$21,600.00
Lorsban 4E	8	Pint	\$6.11	\$48.88	\$4,888.00
Citrus Oil	5	Gallon	\$8.20	\$41.00	\$4,100.00
Admire Pro	0.875	Pint	\$26.67	\$23.34	\$2,333.63
Agri-Mek SC	0.078	Gallon	\$480.68	\$37.49	\$3,749.30
Provado	20	Ounce	\$1.03	\$20.60	\$2,060.00
Herbicide					
Simazine 4L	1.25	Gallon	\$20.40	\$25.50	\$2,550.00
Krovar I 80 DF	3	Pound	\$14.88	\$44.64	\$4,464.00
Other Chemicals					
Surfactant - Citrus	2	Pint	\$3.60	\$7.20	\$720.00
Other Labor					
Unallocated Labor	0.0122	Hour	\$12.00	\$0.15	\$14.64
Irrigation					
Water Cost	1.20	Acre/Foot	\$20.00	\$24.00	\$2,400.00
Irrigation Labor	3.00	Hour	\$12.00	\$36.00	\$3,600.00
Machinery Labor					
Tractors/Self-Propelled	0.24	Hour	\$12.00	\$2.88	\$288.00
Diesel Fuel					
Tractors/Self-Propelled	1.21	Gallon	\$2.10	\$2.54	\$254.10
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			5.00%	\$26.60	\$2,660.39
Total Variable Costs				\$967.60	\$96,760.23
Planned Returns Above Variable Costs:				\$112.40	\$11,239.77
Breakeven Price to Cover Variable Costs			\$107.51	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	\$18.75	Dollars	7.00%	\$1.31	\$131.24
Implements	\$1.34	Dollars	7.00%	\$0.09	\$9.37
Allocated Establishment Cost					
Land Cost, Orchard	1	Acre	\$254.04	\$254.04	\$25,404.00
	1	Acre	\$120.00	\$120.00	\$12,000.00
Total Fixed Costs				\$378.17	\$37,816.58
Total Specified Costs				\$1,345.77	\$134,576.81
Returns Above Specified Costs				(\$265.77)	(\$26,576.81)
Breakeven Price to Cover Total Costs			\$149.53	Ton	

Example Breakeven Prices			
Example Yield Percent	Example Yield Ton	Price Needed to Cover Your Variable Costs	Price Needed to Cover Your Total Costs
75%	6.75	\$143.35	\$199.37
90%	8.10	\$119.46	\$166.14
100%	9.00	\$107.51	\$149.53
110%	9.90	\$97.74	\$135.94
125%	11.25	\$86.01	\$119.62

Developed by Samuel Zapata, Assistant 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.