

Projections for Planning Purposes Only -- Not to be Used without Updating
2017 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	Enterprise
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	Total	Enterprise
Production Costs						
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	
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						
Admire Pro	0.875	Pint	\$26.67	\$23.34	\$2,333.63	
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	
Agri-Mek SC	0.078	Gallon	\$480.68	\$37.49	\$3,749.30	
Provado	20	Ounce	\$1.03	\$20.60	\$2,060.00	
Other Labor						
Unallocated Labor	0.0122	Hour	\$12.00	\$0.15	\$14.64	
Other Chemicals						
Surfactant - Citrus	2	Pint	\$3.60	\$7.20	\$720.00	
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	\$2.63	\$2.63	\$262.93	
Implements	1	Acre	\$0.36	\$0.36	\$36.48	
Interest on Credit Line			5.00%	\$26.61	\$2,661.18	
Total Variable Costs				\$967.93	\$96,792.76	
Planned Returns Above Variable Costs:				\$112.07	\$11,207.24	
Breakeven Price to Cover Variable Costs			\$107.55	Ton		
FIXED COSTS	Quantity	Units	\$/Unit	Total	Total	Enterprise
Machinery Depreciation						
Tractors/Self-Propelled	1	Acre	\$2.72	\$2.72	\$271.69	
Implements	1	Acre	\$0.33	\$0.33	\$32.83	
Equipment Investment						
Tractors/Self-Propelled	\$21.17	Dollars	7.00%	\$1.48	\$148.16	
Implements	\$1.40	Dollars	7.00%	\$0.10	\$9.83	
Allocated Establishment Cost						
Land Cost, Orchard	1	Acre	\$254.04	\$254.04	\$25,404.00	
Land Cost, Orchard	1	Acre	\$120.00	\$120.00	\$12,000.00	
Total Fixed Costs				\$378.67	\$37,866.52	
Total Specified Costs				\$1,346.59	\$134,659.28	
Returns Above Specified Costs				(\$266.59)	(\$26,659.28)	
Breakeven Price to Cover Total Costs			\$149.62	Ton		

Example Breakeven Prices			
Example	Example	To Cover	To Cover
Yield	Yield	Variable	Total
Percent	Ton	Costs	Costs
75%	6.75	\$143.40	\$199.50
90%	8.10	\$119.50	\$166.25
100%	9.00	\$107.55	\$149.62
110%	9.90	\$97.77	\$136.02
125%	11.25	\$86.04	\$119.70

Developed by Samuel Zapata, Assistant Professor and Extension Economist, Texas A&M AgriLife Extension, 956-968-5581.

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.