

Projections for Planning Purposes Only -- Not to be Used without Updating
2017 Estimated Costs and Returns per Acre
Grapefruit, Year 3, 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)	3.00	Ton	\$120.00	\$360.00	\$36,000.00	\$36,000.00
Total Revenue				\$360.00	\$36,000.00	\$36,000.00
VARIABLE COSTS	Quantity	Units	\$/Unit	Total	Total	Enterprise
Production Costs						
Herbicide						
Simazine 4L	1.25	Gallon	\$20.40	\$25.50	\$2,550.00	\$2,550.00
Krovar I 80 DF	3	Pound	\$14.88	\$44.64	\$4,464.00	\$4,464.00
Fertilizer						
Ammonium Sulfate (21% N)	3.42	CWT	\$18.25	\$62.42	\$6,241.50	\$6,241.50
Custom						
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
Miscellaneous						
Insurance, Grapefruit, Year 3	1	Acre	\$92.00	\$92.00	\$9,200.00	\$9,200.00
Insecticide						
Lorsban 4E	8	Pint	\$6.11	\$48.88	\$4,888.00	\$4,888.00
Admire Pro	0.875	Pint	\$26.67	\$23.34	\$2,333.63	\$2,333.63
Vendex	6	Pound	\$36.00	\$216.00	\$21,600.00	\$21,600.00
Citrus Oil	5	Gallon	\$8.20	\$41.00	\$4,100.00	\$4,100.00
Agri-Mek SC	0.078	Gallon	\$480.68	\$37.49	\$3,749.30	\$3,749.30
Provado	20	Ounce	\$1.03	\$20.60	\$2,060.00	\$2,060.00
Other Labor						
Unallocated Labor	0.0122	Hour	\$12.00	\$0.15	\$14.64	\$14.64
Other Chemicals						
Surfactant - Citrus	2	Pint	\$3.60	\$7.20	\$720.00	\$720.00
Irrigation						
Water Cost	1.20	Acre/Foot	\$20.00	\$24.00	\$2,400.00	\$2,400.00
Irrigation Labor	3.00	Hour	\$12.00	\$36.00	\$3,600.00	\$3,600.00
Machinery Labor						
Tractors/Self-Propelled	0.24	Hour	\$12.00	\$2.88	\$288.00	\$288.00
Diesel Fuel						
Tractors/Self-Propelled	1.21	Gallon	\$2.10	\$2.54	\$254.10	\$254.10
Repairs & Maintenance						
Tractors/Self-Propelled	1	Acre	\$2.63	\$2.63	\$262.93	\$262.93
Implements	1	Acre	\$0.36	\$0.36	\$36.48	\$36.48
Interest on Credit Line			5.00%	\$23.60	\$2,359.86	\$2,359.86
Total Variable Costs				\$874.02	\$87,402.43	\$87,402.43
Planned Returns Above Variable Costs:				(\$514.02)	(\$51,402.43)	(\$51,402.43)
Breakeven Price to Cover Variable Costs			\$291.34	Ton		
FIXED COSTS	Quantity	Units	\$/Unit	Total	Total	Enterprise
Machinery Depreciation						
Tractors/Self-Propelled	1	Acre	\$2.72	\$2.72	\$271.69	\$271.69
Implements	1	Acre	\$0.33	\$0.33	\$32.83	\$32.83
Equipment Investment						
Tractors/Self-Propelled	\$21.17	Dollars	7.00%	\$1.48	\$148.16	\$148.16
Implements	\$1.40	Dollars	7.00%	\$0.10	\$9.83	\$9.83
Allocated Establishment Cost						
Land Cost, Orchard	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
Total Fixed Costs				\$378.67	\$37,866.52	\$37,866.52
Total Specified Costs				\$1,252.69	\$125,268.95	\$125,268.95
Returns Above Specified Costs				(\$892.69)	(\$89,268.95)	(\$89,268.95)
Breakeven Price to Cover Total Costs			\$417.56	Ton		

Example Breakeven Prices			
Example	Example	To Cover	To Cover
Yield	Yield	Variable	Total
Percent	Ton	Costs	Costs
75%	2.25	\$388.46	\$556.75
90%	2.70	\$323.71	\$463.96
100%	3.00	\$291.34	\$417.56
110%	3.30	\$264.86	\$379.60
125%	3.75	\$233.07	\$334.05

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.