

Projections for Planning Purposes Only – Not to be Used without Updating
2017 Estimated Costs and Returns per Acre
Grapefruit, Year 8+, Mature Orchard, Flood Irrigated, Rio Grande Valley - 100 Acres
South Extension District - 12

Crop Acres		100				Enterprise
REVENUE	Quantity	Units	\$/Unit	Total	Total	Enterprise Total
Grapefruit (Rio Red)	23.00	Ton	\$120.00	\$2,760.00	\$276,000.00	\$276,000.00
Total Revenue				\$2,760.00	\$276,000.00	\$276,000.00
VARIABLE COSTS	Quantity	Units	\$/Unit	Total	Total	Enterprise Total
Production Costs						
Fertilizer						
Ammonium Sulfate (21% N)	7.14	CWT	\$18.25	\$130.31	\$13,030.50	\$13,030.50
Custom						
Hedging or Topping	0.5	Acre	\$66.00	\$33.00	\$3,300.00	\$3,300.00
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, Established Grapefruit	1	Acre	\$115.00	\$115.00	\$11,500.00	\$11,500.00
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
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
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%	\$28.12	\$2,811.72	\$2,811.72
Total Variable Costs				\$1,002.43	\$100,243.29	\$100,243.29
Planned Returns Above Variable Costs:						
Breakeven Price to Cover Variable Costs				\$43.58	Ton	\$175,756.71
FIXED COSTS	Quantity	Units	\$/Unit	Total	Total	Enterprise Total
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				\$1,381.10	\$138,109.81	\$138,109.81
Returns Above Specified Costs					\$1,378.90	\$137,890.19
Breakeven Price to Cover Total Costs				\$60.05	Ton	

Example Breakeven Prices			
Example Yield Percent	Example Yield Ton	To Cover Variable Costs	To Cover Total Costs
75%	17.25	\$58.11	\$80.06
90%	20.70	\$48.43	\$66.72
100%	23.00	\$43.58	\$60.05
110%	25.30	\$39.62	\$54.59
125%	28.75	\$34.87	\$48.04

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.