

Projections for Planning Purposes Only – Not to be Used without Updating
2017 Estimated Costs and Returns per Acre
Grapefruit, Year 1, Orchard Establishment, Flood Irrigated, Rio Grande Valley - 100 Acres
South Extension District - 12

Crop Acres		100				Enterprise
REVENUE		Quantity	Units	\$/Unit	Total	Total
Total Revenue					\$0.00	\$0.00
VARIABLE COSTS		Quantity	Units	\$/Unit	Total	Enterprise
Production Costs						Total
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
Seed						
	Young Citrus Trees	140	Tree	\$15.00	\$2,100.00	\$210,000.00
Fertilizer						
	Ammonium Sulfate (21% N)	0.858	CWT	\$18.25	\$15.66	\$1,565.85
Custom						
	Land Prep and Level	1	Acre	\$165.00	\$165.00	\$16,500.00
	Layout and Plant	140	Tree	\$1.38	\$193.20	\$19,320.00
	Custom Fertilize Citrus	3	Acre	\$4.40	\$13.20	\$1,320.00
	Tree Wrap/Unwrap	140	Tree	\$1.10	\$154.00	\$15,400.00
Miscellaneous						
	Insurance, Grapefruit, Year 1	1	Acre	\$40.00	\$40.00	\$4,000.00
	Tree Wraps	140	Tree	\$1.10	\$154.00	\$15,400.00
Insecticide						
	Admire Pro	0.875	Pint	\$26.67	\$23.34	\$2,333.63
	Provado	20	Ounce	\$1.03	\$20.60	\$2,060.00
Other Labor						
	Unallocated Labor	0.0112	Hour	\$12.00	\$0.13	\$13.44
Irrigation						
	Water Cost	2.40	Acre/Foot	\$20.00	\$48.00	\$4,800.00
	Irrigation Labor	6.00	Hour	\$12.00	\$72.00	\$7,200.00
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%	\$122.95	\$12,295.20
Total Variable Costs					\$3,200.64	\$320,063.62
Planned Returns Above Variable Costs:					(\$3,200.64)	(\$320,063.62)
Breakeven Price to Cover Variable Costs				n/a		
FIXED COSTS		Quantity	Units	\$/Unit	Total	Enterprise
Machinery Depreciation						Total
	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	\$45.00	\$45.00	\$4,500.00
		1	Acre	\$120.00	\$120.00	\$12,000.00
Total Fixed Costs					\$169.63	\$16,962.52
Total Specified Costs					\$3,370.26	\$337,026.13
Returns Above Specified Costs					(\$3,370.26)	(\$337,026.13)
Breakeven Price to Cover Total Costs				n/a		

Example Breakeven Prices			
Example Yield Percent	Example Yield	To Cover Variable Costs	To Cover Total Costs
75%	0.00	\$0.00	\$0.00
90%	0.00	\$0.00	\$0.00
100%	0.00	\$0.00	\$0.00
110%	0.00	\$0.00	\$0.00
125%	0.00	\$0.00	\$0.00

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.