

**2021 Estimated Costs and Returns per Acre
Grapefruit, Year 4, Orchard Establishment, Flood Irrigated, Rio Grande Valley
South Extension District - 12**

Crop Acres		100			
REVENUE	Quantity	Units	\$/Unit	Total	Enterprise Total
Grapefruit (Rio Red)	6.00	Ton	\$237.25	\$1,423.50	\$142,350.00
Total Revenue				\$1,423.50	\$142,350.00
VARIABLE COSTS	Quantity	Units	\$/Unit	Total	Enterprise Total
Production Costs					
Custom					
Foliar Application	7	Acre	\$45.00	\$315.00	\$31,500.00
Prune (Yr 3-6 Year)	1	Acre	\$56.00	\$56.00	\$5,600.00
Fertilizer					
Urea (46%)	2.5	CTW	\$22.02	\$55.04	\$5,504.13
Foliar N (Urea)	5	Pound	\$0.61	\$3.05	\$305.00
Foliar 3-18-18	1	Gallon	\$19.00	\$19.00	\$1,900.00
Foliar Zn	2	Pound	\$0.80	\$1.60	\$160.00
Foliar 18-8-5	2	Gallon	\$15.50	\$31.00	\$3,100.00
Herbicide					
Simazine 4L	1.25	Gallon	\$29.70	\$37.13	\$3,712.50
Krovar I 80 DF	3	Pound	\$14.09	\$42.28	\$4,227.50
Glyphosate	20	Pint	\$3.01	\$60.15	\$6,015.00
Insecticide					
Movento	30	Ounce	\$7.81	\$234.36	\$23,436.33
Micromite	18.8	Ounce	\$3.50	\$65.80	\$6,580.00
Vendex	8	Pound	\$17.89	\$143.12	\$14,312.00
Agri-Mek SC	0.32	Gallon	\$499.91	\$159.97	\$15,997.03
Actara	11	Ounce	\$4.03	\$44.35	\$4,434.83
Sivanto	10	Ounce	\$3.28	\$32.81	\$3,280.86
Esteem	10	Ounce	\$13.00	\$130.00	\$13,000.00
Danitol	16	Ounce	\$1.58	\$25.28	\$2,528.00
Admire Pro	0.44	Pint	\$26.28	\$11.56	\$1,156.32
Seed					
Young Citrus Trees	3	Tree	\$10.00	\$30.00	\$3,000.00
Layout and Plant	3	Tree	\$5.00	\$15.00	\$1,500.00
Removal Citrus	3	Tree	\$25.00	\$75.00	\$7,500.00
Treatment Removed citrus	3	Tree	\$5.00	\$15.00	\$1,500.00
Tree Wrap/Unwrap	3	Tree	\$2.00	\$6.00	\$600.00
Other Labor					
Custom Soil Fert. Citrus	6	Hour	\$12.00	\$72.00	\$7,200.00
Unallocated Labor	1	Hour	\$12.00	\$12.00	\$1,200.00
Miscellaneous					
Citrus Assessment	1	Acre	\$25.00	\$25.00	\$2,500.00
Insurance, Grapefruit	1	Acre	\$25.96	\$25.96	\$2,596.06
Other Chemicals					
Surfactant - Citrus	7.98	Pint	\$8.00	\$63.84	\$6,384.00
Fungicides					
Quadris Top	10	Ounce	\$1.50	\$15.00	\$1,500.00
GEM	3.8	Ounce	\$8.12	\$30.87	\$3,086.91
Headline	24	Ounce	\$2.99	\$71.70	\$7,170.38
Pristine	16	Ounce	\$3.12	\$49.86	\$4,986.00
Irrigation					
Water Cost	4.00	Acre/Foot	\$20.00	\$80.00	\$8,000.00
Irrigation Labor	14.00	Hour	\$12.00	\$168.00	\$16,800.00
Machinery Labor					
Tractors/Self-Propelled	0.8	Hour	\$12.00	\$9.60	\$960.00
Other Labor	0.4	Hour	\$12.00	\$4.80	\$480.00
Diesel Fuel					
Tractors/Self-Propelled	3.66	Gallon	\$2.00	\$7.32	\$732.00
Repairs & Maintenance					
Tractors/Self-Propelled	1	Acre	\$8.79	\$8.79	\$878.51
Implements	1	Acre	\$2.86	\$2.86	\$285.70
Interest on Credit Line			5.00%	\$58.54	\$5,854.33
Total Variable Costs				\$2,314.63	\$231,463.38
Planned Returns Above Variable Costs:				(\$891.13)	(\$89,113.38)
Breakeven Price to Cover Variable Costs			\$385.77	Ton	
FIXED COSTS	Quantity	Units	\$/Unit	Total	Enterprise Total
Machinery Depreciation					
Tractors/Self-Propelled	1	Acre	\$9.08	\$9.08	\$907.80
Implements	1	Acre	\$3.05	\$3.05	\$304.75
Equipment Investment					
Tractors/Self-Propelled	\$70.72	Dollars	7.00%	\$4.95	\$495.04
Implements	\$13.04	Dollars	7.00%	\$0.91	\$91.26
Allocated Establishment Cost	1	Acre	\$120.34	\$120.34	\$12,033.71
Land Cost, Orchard	1	Acre	\$100.00	\$100.00	\$10,000.00
Total Fixed Costs				\$238.33	\$23,832.56
Total Specified Costs				\$2,552.96	\$255,295.94
Returns Above Specified Costs				(\$1,129.46)	(\$112,945.94)
Breakeven Price to Cover Total Costs			\$425.49	Ton	

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.