

**2023 Estimated Costs and Returns per Acre  
Grapefruit, Year 8, Orchard Establishment, Flood Irrigated, Rio Grande Valley  
South Extension District - 12**

Crop Acres		100				Enterprise
REVENUE	Quantity	Units	\$/Unit	Total	Total	Total
Grapefruit (Rio Red)	20.00	Ton	\$298.25	\$5,965.00	\$596,500.00	\$596,500.00
Total Revenue				\$5,965.00	\$596,500.00	\$596,500.00
VARIABLE COSTS	Quantity	Units	\$/Unit	Total	Total	Enterprise
<b>Production Costs</b>						
Custom						
Topping and Hedging	1	Acre	\$120.00	\$120.00	\$12,000.00	
Foliar Application	7	Acre	\$50.00	\$350.00	\$35,000.00	
Fertilizer						
Urea (46%)	2.5	CTW	\$44.75	\$111.88	\$11,187.50	
Foliar 3-18-18	1	Gallon	\$34.00	\$34.00	\$3,400.00	
Foliar Zn	2	Pound	\$3.50	\$7.00	\$699.96	
Foliar 18-8-5	2	Gallon	\$15.50	\$31.00	\$3,100.00	
Foliar N	5	Pound	\$0.61	\$3.05	\$305.00	
Herbicide						
Simazine 4L	1.25	Gallon	\$38.00	\$47.50	\$4,750.00	
Krovar I 80 DF	3	Pound	\$17.68	\$53.04	\$5,304.00	
Glyphosate	20	Pint	\$6.25	\$125.00	\$12,500.00	
Insecticide						
Movento	30	Ounce	\$7.79	\$233.66	\$23,366.02	
Micromite	18.8	Ounce	\$1.63	\$30.70	\$3,069.69	
Vendex	8	Pound	\$60.69	\$485.52	\$48,552.00	
Agri-Mek SC	0.32	Gallon	\$89.95	\$28.78	\$2,878.40	
Actara	11	Ounce	\$4.33	\$47.65	\$4,764.83	
Sivanto	10	Ounce	\$3.28	\$32.81	\$3,280.86	
Esteem	10	Ounce	\$9.92	\$99.19	\$9,919.00	
Danitol	16	Ounce	\$1.01	\$16.13	\$1,612.50	
Admire Pro	0.44	Pint	\$26.28	\$11.56	\$1,156.32	
Miscellaneous						
Citrus Assessment	1	Acre	\$5.00	\$5.00	\$500.00	
Insurance, Grapefruit	1	Acre	\$128.67	\$128.67	\$12,866.63	
Seed						
Young Citrus Trees	3	Tree	\$15.00	\$45.00	\$4,500.00	
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 Chemicals						
Surfactant	7.98	Pint	\$7.48	\$59.65	\$5,965.05	
Other Labor						
Custom Soil Fert. Citrus	6	Hour	\$15.00	\$90.00	\$9,000.00	
Unallocated Labor	1	Hour	\$15.00	\$15.00	\$1,500.00	
Fungicides						
Quadris Top	10	Ounce	\$1.56	\$15.62	\$1,562.11	
GEM	3.8	Ounce	\$8.12	\$30.87	\$3,086.91	
Headline	24	Ounce	\$1.86	\$44.63	\$4,462.50	
Pristine	16	Ounce	\$3.29	\$52.66	\$5,266.00	
Irrigation						
Water Cost	4.00	Acre/Foot	\$21.00	\$84.00	\$8,400.00	
Irrigation Labor	14.00	Hour	\$17.50	\$245.00	\$24,500.00	
Machinery Labor						
Tractors/Self-Propelled	0.8	Hour	\$17.21	\$13.77	\$1,376.80	
Other Labor	0.4	Hour	\$17.21	\$6.88	\$688.40	
Diesel Fuel						
Tractors/Self-Propelled	3.66	Gallon	\$2.24	\$8.20	\$819.84	
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			8.00%	\$124.15	\$12,414.94	
Total Variable Costs				\$2,960.19	\$296,019.46	
Planned Returns Above Variable Costs:				\$3,004.81	\$300,480.54	
Breakeven Price to Cover Variable Costs			\$148.01	Ton		
FIXED COSTS	Quantity	Units	\$/Unit	Total	Total	Enterprise
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	8.00%	\$5.66	\$565.76	
Implements	\$13.04	Dollars	8.00%	\$1.04	\$104.29	
Allocated Establishment Cost	1	Acre	\$142.47	\$142.47	\$14,247.42	
Land Cost, Orchard	1	Acre	\$100.00	\$100.00	\$10,000.00	
Total Fixed Costs				\$261.30	\$26,130.02	
Total Specified Costs				\$3,221.49	\$322,149.48	
Returns Above Specified Costs				\$2,743.51	\$274,350.52	
Breakeven Price to Cover Total Costs			\$161.07	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.*