

**2023 Estimated Costs and Returns per Acre**  
**Grapefruit, Year 3, 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)	3.00	Ton	\$298.25	\$894.75	\$894.75	\$89,475.00
<b>Total Revenue</b>				<b>\$894.75</b>	<b>\$894.75</b>	<b>\$89,475.00</b>
VARIABLE COSTS	Quantity	Units	\$/Unit	Total	Total	Enterprise
<b>Production Costs</b>						
Custom						
Foliar Application	7	Acre	\$50.00	\$350.00	\$350.00	\$35,000.00
Sucker (Yr 1-3 Year)	1	Acre	\$50.00	\$50.00	\$50.00	\$5,000.00
Fertilizer						
Urea (46%)	2.5	CTW	\$44.75	\$111.88	\$111.88	\$11,187.50
Foliar 3-18-18	1	Gallon	\$34.00	\$34.00	\$34.00	\$3,400.00
Foliar Zn	2	Pound	\$3.50	\$7.00	\$7.00	\$699.96
Foliar 18-8-5	2	Gallon	\$15.50	\$31.00	\$31.00	\$3,100.00
Foliar N	5	Pound	\$0.61	\$3.05	\$3.05	\$305.00
Herbicide						
Simazine 4L	1.25	Gallon	\$38.00	\$47.50	\$47.50	\$4,750.00
Krovar I 80 DF	3	Pound	\$17.68	\$53.04	\$53.04	\$5,304.00
Glyphosate	20	Pint	\$6.25	\$125.00	\$125.00	\$12,500.00
Seed						
Young Citrus Trees	3	Tree	\$15.00	\$45.00	\$45.00	\$4,500.00
Layout and Plant	3	Tree	\$5.00	\$15.00	\$15.00	\$1,500.00
Removal Citrus	3	Tree	\$25.00	\$75.00	\$75.00	\$7,500.00
Treatment Removed citrus	3	Tree	\$5.00	\$15.00	\$15.00	\$1,500.00
Tree Wrap/Unwrap	3	Tree	\$2.00	\$6.00	\$6.00	\$600.00
Other Labor						
Costum Soil Fert. Citrus	6	Hour	\$15.00	\$90.00	\$90.00	\$9,000.00
Unallocated Labor	1	Hour	\$15.00	\$15.00	\$15.00	\$1,500.00
Insecticide						
Movento	30	Ounce	\$7.79	\$233.66	\$233.66	\$23,366.02
Micromite	18.85	Ounce	\$1.63	\$30.78	\$30.78	\$3,077.85
Vendex	8	Pound	\$60.69	\$485.52	\$485.52	\$48,552.00
Agri-Mek SC	0.32	Gallon	\$89.95	\$28.78	\$28.78	\$2,878.40
Actara	11	Ounce	\$4.33	\$47.65	\$47.65	\$4,764.83
Sivanto	10	Ounce	\$3.28	\$32.81	\$32.81	\$3,280.86
Esteem	10	Ounce	\$13.00	\$130.00	\$130.00	\$13,000.00
Danitol	16	Ounce	\$1.01	\$16.13	\$16.13	\$1,612.50
Admire Pro	0.44	Pint	\$26.28	\$11.56	\$11.56	\$1,156.32
Miscellaneous						
Citrus Assessment	1	Acre	\$5.00	\$5.00	\$5.00	\$500.00
Insurance, Young citrus trees	150	Tree	\$0.22	\$33.00	\$33.00	\$3,300.00
Other Chemicals						
Surfactant	7.41	Pint	\$7.48	\$55.39	\$55.39	\$5,538.98
Fungicides						
Quadris Top	10	Ounce	\$1.56	\$15.62	\$15.62	\$1,562.11
GEM	3.8	Ounce	\$8.12	\$30.87	\$30.87	\$3,086.91
Headline	24	Ounce	\$1.86	\$44.63	\$44.63	\$4,462.50
Pristine	16	Ounce	\$3.29	\$52.66	\$52.66	\$5,266.00
Irrigation						
Water Cost	4.00	Acre/Foot	\$21.00	\$84.00	\$84.00	\$8,400.00
Irrigation Labor	14.00	Hour	\$17.50	\$245.00	\$245.00	\$24,500.00
Machinery Labor						
Tractors/Self-Propelled	0.8	Hour	\$17.21	\$13.77	\$13.77	\$1,376.80
Other Labor	0.4	Hour	\$17.21	\$6.88	\$6.88	\$688.40
Diesel Fuel						
Tractors/Self-Propelled	3.66	Gallon	\$2.24	\$8.20	\$8.20	\$819.84
Repairs & Maintenance						
Tractors/Self-Propelled	1	Acre	\$8.79	\$8.79	\$8.79	\$878.51
Implements	1	Acre	\$2.86	\$2.86	\$2.86	\$285.70
Interest on Credit Line			8.00%	\$114.06	\$114.06	\$11,405.97
<b>Total Variable Costs</b>				<b>\$2,811.07</b>	<b>\$2,811.07</b>	<b>\$281,106.95</b>
<b>Planned Returns Above Variable Costs:</b>				<b>(\$1,916.32)</b>	<b>(\$1,916.32)</b>	<b>(\$191,631.95)</b>
<b>Breakeven Price to Cover Variable Costs</b>			<b>\$937.02</b>	<b>Ton</b>		
FIXED COSTS	Quantity	Units	\$/Unit	Total	Total	Enterprise
Machinery Depreciation						
Tractors/Self-Propelled	1	Acre	\$9.08	\$9.08	\$9.08	\$907.80
Implements	1	Acre	\$3.05	\$3.05	\$3.05	\$304.75
Equipment Investment						
Tractors/Self-Propelled	\$70.72	Dollars	8.00%	\$5.66	\$5.66	\$565.76
Implements	\$13.04	Dollars	8.00%	\$1.04	\$1.04	\$104.29
Allocated Establishment Cost	1	Acre	\$142.47	\$142.47	\$142.47	\$14,247.42
Land Cost, Orchard	1	Acre	\$100.00	\$100.00	\$100.00	\$10,000.00
<b>Total Fixed Costs</b>				<b>\$261.30</b>	<b>\$261.30</b>	<b>\$26,130.02</b>
<b>Total Specified Costs</b>				<b>\$3,072.37</b>	<b>\$3,072.37</b>	<b>\$307,236.98</b>
<b>Returns Above Specified Costs</b>				<b>(\$2,177.62)</b>	<b>(\$2,177.62)</b>	<b>(\$217,761.98)</b>
<b>Breakeven Price to Cover Total Costs</b>			<b>\$1,024.12</b>	<b>Ton</b>		

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.*