

**2021 Estimated Costs and Returns per Acre
Grapefruit, Year 8, Orchard Establishment, Flood Irrigated, Rio Grande Valley
South Extension District - 12**

| Crop Acres | | 100 | | | |
|---|----------|-----------|-----------------|-------------------|---------------------|
| REVENUE | Quantity | Units | \$/Unit | Total | Enterprise Total |
| Grapefruit (Rio Red) | 20.00 | Ton | \$237.25 | \$4,745.00 | \$474,500.00 |
| Total Revenue | | | | \$4,745.00 | \$474,500.00 |
| VARIABLE COSTS | Quantity | Units | \$/Unit | Total | Enterprise Total |
| Production Costs | | | | | |
| Custom | | | | | |
| Topping and Hedging | 1 | Acre | \$120.00 | \$120.00 | \$12,000.00 |
| Foliar Application | 7 | Acre | \$45.00 | \$315.00 | \$31,500.00 |
| 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 | \$7.24 | \$72.44 | \$7,244.38 |
| Danitol | 16 | Ounce | \$1.58 | \$25.28 | \$2,528.00 |
| Admire Pro | 0.44 | Pint | \$26.28 | \$11.56 | \$1,156.32 |
| Miscellaneous | | | | | |
| Citrus Assessment | 1 | Acre | \$25.00 | \$25.00 | \$2,500.00 |
| Insurance, Grapefruit | 1 | Acre | \$25.96 | \$25.96 | \$2,596.06 |
| 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 Chemicals | | | | | |
| Surfactant - Citrus | 7.98 | Pint | \$8.00 | \$63.84 | \$6,384.00 |
| Other Labor | | | | | |
| Costum Soil Fert. Citrus | 6 | Hour | \$12.00 | \$72.00 | \$7,200.00 |
| Unallocated Labor | 1 | Hour | \$12.00 | \$12.00 | \$1,200.00 |
| 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% | \$60.69 | \$6,068.64 |
| Total Variable Costs | | | | \$2,323.22 | \$232,322.06 |
| Planned Returns Above Variable Costs: | | | | \$2,421.78 | \$242,177.94 |
| Breakeven Price to Cover Variable Costs | | | \$116.16 | 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 | | | | \$2,561.55 | \$256,154.62 |
| Returns Above Specified Costs | | | | \$2,183.45 | \$218,345.38 |
| Breakeven Price to Cover Total Costs | | | \$128.08 | 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.