

Projections for Planning Purposes Only – Not to be Used without Updating
2020 Estimated Costs and Returns per Acre
Grapefruit, Year 5, Orchard Establishment, Flood Irrigated, Rio Grande Valley
South Extension District - 12

Crop Acres		100			
REVENUE	Quantity	Units	\$/Unit	Total	Enterprise Total
Grapefruit (Rio Red)	9.00	Ton	\$230.00	\$2,070.00	\$207,000.00
Total Revenue				\$2,070.00	\$207,000.00
VARIABLE COSTS	Quantity	Units	\$/Unit	Total	Enterprise Total
Production Costs					
Fertilizer					
Urea (46%)	2.5	CTW	\$21.80	\$54.50	\$5,450.00
Foliar N (Urea)	5	Pound	\$0.61	\$3.05	\$305.00
Foliar 3-18-18	1	Gallon	\$22.00	\$22.00	\$2,200.00
Foliar Zn	2	Pound	\$0.80	\$1.60	\$160.00
Foliar 18-8-5	2	Gallon	\$15.50	\$31.00	\$3,100.00
Custom					
Foliar Application	7	Acre	\$42.00	\$294.00	\$29,400.00
Prune (Yr 3-6 Year)	1	Acre	\$56.00	\$56.00	\$5,600.00
Miscellaneous					
Citrus Assessment	1	Acre	\$45.00	\$45.00	\$4,500.00
Insurance, Grapefruit	1	Acre	\$30.00	\$30.00	\$3,000.00
Herbicide					
Simazine 4L	1.25	Gallon	\$21.46	\$26.83	\$2,682.60
Krovax I 80 DF	3	Pound	\$15.65	\$46.96	\$4,696.13
Roundup/Glyphosate	3.4	Gallon	\$20.00	\$68.00	\$6,800.00
Insecticide					
Admire Pro	0.44	Pint	\$27.74	\$12.20	\$1,220.42
Vendex	8	Pound	\$17.89	\$143.12	\$14,312.00
Agri-Mek SC	0.32	Gallon	\$499.91	\$159.97	\$15,997.03
Movento	30	Ounce	\$7.25	\$217.50	\$21,750.00
Micromite	18.8	Ounce	\$3.88	\$72.94	\$7,294.40
Actara	11	Ounce	\$2.35	\$25.85	\$2,585.00
Sivanto	10	Ounce	\$2.30	\$23.00	\$2,300.00
Esteem	10	Ounce	\$13.00	\$130.00	\$13,000.00
Danitol	16	Ounce	\$1.58	\$25.28	\$2,528.00
Other Chemicals					
Surfactant - Citrus	7.98	Pint	\$8.00	\$63.84	\$6,384.00
Other Labor					
Unallocated Labor	1	Hour	\$12.00	\$12.00	\$1,200.00
Costum Soil Fert. Citrus	6	Hour	\$12.00	\$72.00	\$7,200.00
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
Fungicides					
Quadris Top	10	Ounce	\$1.50	\$15.00	\$1,500.00
GEM	3.8	Ounce	\$4.88	\$18.54	\$1,854.40
Headline	24	Ounce	\$2.66	\$63.84	\$6,384.00
Pristine	16	Ounce	\$4.88	\$78.08	\$7,808.00
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	\$2.30	\$8.42	\$841.80
Repairs & Maintenance					
Tractors/Self-Propelled	1	Acre	\$8.43	\$8.43	\$842.88
Implements	1	Acre	\$2.86	\$2.86	\$285.88
Interest on Credit Line			5.00%	\$57.70	\$5,770.12
Total Variable Costs				\$2,292.92	\$229,291.66
Planned Returns Above Variable Costs:				(\$222.92)	(\$22,291.66)
Breakeven Price to Cover Variable Costs			\$254.77	Ton	
FIXED COSTS	Quantity	Units	\$/Unit	Total	Enterprise Total
Machinery Depreciation					
Tractors/Self-Propelled	1	Acre	\$8.71	\$8.71	\$870.98
Implements	1	Acre	\$3.06	\$3.06	\$305.59
Equipment Investment					
Tractors/Self-Propelled	\$67.85	Dollars	7.00%	\$4.75	\$474.96
Implements	\$13.07	Dollars	7.00%	\$0.92	\$91.51
Allocated Establishment Cost	1	Acre	\$120.66	\$120.66	\$12,065.54
Land Cost, Orchard	1	Acre	\$100.00	\$100.00	\$10,000.00
Total Fixed Costs				\$238.09	\$23,808.59
Total Specified Costs				\$2,531.00	\$253,100.24
Returns Above Specified Costs				(\$461.00)	(\$46,100.24)
Breakeven Price to Cover Total Costs			\$281.22	Ton	

Example Breakeven Prices			
Example Yield Percent	Example Yield Ton	To Cover Variable Costs	To Cover Total Costs
75%	6.75	\$339.69	\$374.96
90%	8.10	\$283.08	\$312.47
100%	9.00	\$254.77	\$281.22
110%	9.90	\$231.61	\$255.66
125%	11.25	\$203.81	\$224.98

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.