

Projections for Planning Purposes Only – Not to be Used without Updating
2020 Estimated Costs and Returns per Acre
Oranges, Early Orange, Mature Orchard, Flood Irrigated, Rio Grande Valley
South Extension District - 12

Crop Acres						100				
REVENUE						Quantity	Units	\$/Unit	Total	Enterprise Total
Early Oranges						18.00	Ton	\$170.00	\$3,060.00	\$306,000.00
Total Revenue									\$3,060.00	\$306,000.00
VARIABLE COSTS						Quantity	Units	\$/Unit	Total	Enterprise Total
Production Costs										
Seed										
Young Citrus Trees						4	Tree	\$10.00	\$40.00	\$4,000.00
Layout and Plant						4	Tree	\$5.00	\$20.00	\$2,000.00
Removal Citrus						4	Tree	\$25.00	\$100.00	\$10,000.00
Treatment Removed citrus						4	Tree	\$5.00	\$20.00	\$2,000.00
Tree Wrap/Unwrap						4	Tree	\$2.00	\$8.00	\$800.00
Herbicide										
Simazine 4L						1.25	Gallon	\$21.46	\$26.83	\$2,682.60
Roundup/Glyphosate						3.4	Gallon	\$20.00	\$68.00	\$6,800.00
Krovar 1 80 DF						3	Pound	\$15.65	\$46.96	\$4,696.13
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
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
Insecticide										
Movento						30	Ounce	\$7.25	\$217.50	\$21,750.00
Micromite						18.8	Ounce	\$3.88	\$72.94	\$7,294.40
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	\$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
Admire Pro						0.44	Pint	\$27.74	\$12.20	\$1,220.42
Custom										
Foliar Application						7	Acre	\$42.00	\$294.00	\$29,400.00
Topping and Hedging						1	Acre	\$120.00	\$120.00	\$12,000.00
Miscellaneous										
Citrus Assessment						1	Acre	\$45.00	\$45.00	\$4,500.00
Insurance, Oranges						1	Acre	\$15.00	\$15.00	\$1,500.00
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	\$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	\$7.50	\$30.00	\$3,000.00
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%	\$61.47	\$6,146.97
Total Variable Costs									\$2,342.69	\$234,268.50
Planned Returns Above Variable Costs:									\$717.31	\$71,731.50
Breakeven Price to Cover Variable Costs								\$130.15	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									\$2,580.77	\$258,077.09
Returns Above Specified Costs									\$479.23	\$47,922.91
Breakeven Price to Cover Total Costs								\$143.38	Ton	

Example Breakeven Prices			
Example Yield Percent	Example Yield Ton	To Cover Variable Costs	To Cover Total Costs
75%	13.50	\$173.53	\$191.17
90%	16.20	\$144.61	\$159.31
100%	18.00	\$130.15	\$143.38
110%	19.80	\$118.32	\$130.34
125%	22.50	\$104.12	\$114.70

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.