

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

Crop Acres		100				Enterprise
REVENUE		Quantity	Units	\$/Unit	Total	Total
Oranges (Valencias)		18.00	Ton	\$345.00	\$6,210.00	\$621,000.00
Total Revenue					\$6,210.00	\$621,000.00
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
	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
Herbicide						
	Simazine 4L	1.25	Gallon	\$21.46	\$26.83	\$2,682.60
	Krovar 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	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	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	1.60	Acre/Foot	\$20.00	\$32.00	\$3,200.00
	Irrigation Labor	4.00	Hour	\$12.00	\$48.00	\$4,800.00
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%	\$57.51	\$5,750.91
Total Variable Costs					\$2,218.72	\$221,872.45
Planned Returns Above Variable Costs:					\$3,991.28	\$399,127.55
Breakeven Price to Cover Variable Costs				\$123.26	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					\$2,456.81	\$245,681.04
Returns Above Specified Costs					\$3,753.19	\$375,318.96
Breakeven Price to Cover Total Costs				\$136.49	Ton	

Example Breakeven Prices			
Example Yield Percent	Example Yield Ton	To Cover Variable Costs	To Cover Total Costs
75%	13.50	\$164.35	\$181.99
90%	16.20	\$136.96	\$151.65
100%	18.00	\$123.26	\$136.49
110%	19.80	\$112.06	\$124.08
125%	22.50	\$98.61	\$109.19

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.