

Projections for Planning Purposes Only -- Not to be Used without Updating
2019 Estimated Costs and Returns per Acre
Watermelon, Seedless, Plastic Mulch, Drip Irrigated, Rio Grande Valley
South Extension District - 12

Crop Acres		40				Enterprise
REVENUE	Quantity	Units	\$/Unit	Total		Total
Watermelon, seedless	450.00	CWT	\$21.00	\$9,450.00		\$378,000.00
Total Revenue				\$9,450.00		\$378,000.00
VARIABLE COSTS	Quantity	Units	\$/Unit	Total		Enterprise Total
Production Costs						
Herbicide						
Trifluralin 4EC	2.75	Pint	\$3.65	\$10.04		\$401.55
Seed						
Hybrid Watermelon Seed	0.25	Pound	\$397.04	\$99.26		\$3,970.40
Watermelon Seedlings	2	Thousand	\$148.89	\$297.78		\$11,911.20
Fertilizer						
Phosphorus (46% P2O5)	1.3	CWT	\$25.60	\$33.28		\$1,331.20
UAN (32% N)	1	CWT	\$15.25	\$15.25		\$610.00
Custom						
Bee Rental	1	Hive	\$85.00	\$85.00		\$3,400.00
Harvest and Sell Watermelons	450	CWT	\$8.00	\$3,600.00		\$144,000.00
Miscellaneous						
DripTape (2 seasons)	6550	Foot	\$0.01	\$52.40		\$2,096.00
Plastic Mulch, 3x4K'	0.61	Roll	\$68.00	\$41.48		\$1,659.20
Sulfuric Acid	26	Ounce	\$0.01	\$0.39		\$15.41
Insecticide						
Asana XL	5.8	Ounce	\$0.61	\$3.56		\$142.36
Other Labor						
Transplant Melons	8	Hour	\$12.00	\$96.00		\$3,840.00
Pickup Plastic	8	Hour	\$12.00	\$96.00		\$3,840.00
Unallocated Labor	0.8992	Hour	\$12.00	\$10.79		\$431.62
Fungicides						
Bravo Ultrex	1	Pound	\$7.21	\$7.21		\$288.29
Quadris	32	Ounce	\$2.34	\$74.88		\$2,995.20
Irrigation						
Water Cost	1.13	Acre/Foot	\$20.00	\$22.68		\$907.20
Irrigation Labor	0.19	Hour	\$12.00	\$2.27		\$90.72
Machinery Labor						
Tractors/Self-Propelled	1.4	Hour	\$12.00	\$16.80		\$672.00
Other Labor	0.41	Hour	\$12.00	\$4.92		\$196.80
Diesel Fuel						
Tractors/Self-Propelled	9	Gallon	\$2.30	\$20.70		\$828.00
Repairs & Maintenance						
Tractors/Self-Propelled	1	Acre	\$19.44	\$19.44		\$777.51
Implements	1	Acre	\$10.18	\$10.18		\$407.29
Interest on Credit Line			5.00%	\$24.35		\$973.94
Total Variable Costs				\$4,644.65		\$185,785.87
Planned Returns Above Variable Costs:				\$4,805.35		\$192,214.13
Breakeven Price to Cover Variable Costs			\$10.32 CWT			
FIXED COSTS	Quantity	Units	\$/Unit	Total		Enterprise Total
Machinery Depreciation						
Tractors/Self-Propelled	1	Acre	\$20.09	\$20.09		\$803.42
Implements	1	Acre	\$12.22	\$12.22		\$488.77
Equipment Investment						
Tractors/Self-Propelled	\$156.47	Dollars	7.00%	\$10.95		\$438.12
Implements	\$54.00	Dollars	7.00%	\$3.78		\$151.20
Cash Rent, Irrigated Vegetables	1	Acre	\$110.00	\$110.00		\$4,400.00
Total Fixed Costs				\$157.04		\$6,281.51
Total Specified Costs				\$4,801.68		\$192,067.38
Returns Above Specified Costs				\$4,648.32		\$185,932.62
Breakeven Price to Cover Total Costs			\$10.67 CWT			

Example Breakeven Prices			
Example Yield Percent	Example Yield CWT	To Cover Variable Costs	To Cover Total Costs
75%	337.50	\$13.76	\$14.23
90%	405.00	\$11.47	\$11.86
100%	450.00	\$10.32	\$10.67
110%	495.00	\$9.38	\$9.70
125%	562.50	\$8.26	\$8.54

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.