

Projections for Planning Purposes Only -- Not to be Used without Updating
2018 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	\$18.00	\$8,100.00	\$324,000.00
Total Revenue				\$8,100.00	\$324,000.00
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	\$26.93	\$35.00	\$1,400.10
UAN (32% N)	1	CWT	\$15.08	\$15.08	\$603.12
Custom					
Bee Rental	1	Hive	\$85.00	\$85.00	\$3,400.00
Harvest and Sell Watermelons	450	CWT	\$3.30	\$1,485.00	\$59,400.00
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	\$3.23	\$103.50	\$4,140.03
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					
Pickup/General Use Equipment	1	Acre	\$246.96	\$246.96	\$9,878.40
Tractors/Self-Propelled	9	Gallon	\$2.10	\$18.90	\$756.00
Repairs & Maintenance					
Pickup/General Use Equipment	1	Acre	\$4.73	\$4.73	\$189.00
Tractors/Self-Propelled	1	Acre	\$19.42	\$19.42	\$776.89
Implements	1	Acre	\$9.98	\$9.98	\$399.20
Interest on Credit Line			5.00%	\$19.63	\$785.20
Total Variable Costs				\$2,804.77	\$112,190.68
Planned Returns Above Variable Costs:				\$5,295.23	\$211,809.32
Breakeven Price to Cover Variable Costs			\$6.23	CWT	
FIXED COSTS	Quantity	Units	\$/Unit	Total	Enterprise Total
Machinery Depreciation					
Pickup/General Use Equipment	1	Acre	\$47.25	\$47.25	\$1,890.00
Tractors/Self-Propelled	1	Acre	\$20.07	\$20.07	\$802.79
Implements	1	Acre	\$11.99	\$11.99	\$479.47
Equipment Investment					
Pickup/General Use Equipment	\$433.13	Dollars	7.00%	\$30.32	\$1,212.75
Tractors/Self-Propelled	\$156.35	Dollars	7.00%	\$10.94	\$437.78
Implements	\$53.02	Dollars	7.00%	\$3.71	\$148.46
Cash Rent, Irrigated Vegetables	1	Acre	\$110.00	\$110.00	\$4,400.00
Total Fixed Costs				\$234.28	\$9,371.25
Total Specified Costs				\$3,039.05	\$121,561.93
Returns Above Specified Costs				\$5,060.95	\$202,438.07
Breakeven Price to Cover Total Costs			\$6.75	CWT	

Example Breakeven Prices			
Example Yield Percent	Example Yield CWT	To Cover Variable Costs	To Cover Total Costs
75%	337.50	\$8.31	\$9.00
90%	405.00	\$6.93	\$7.50
100%	450.00	\$6.23	\$6.75
110%	495.00	\$5.67	\$6.14
125%	562.50	\$4.99	\$5.40

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.