

Projections for Planning Purposes Only -- Not to be Used without Updating
2017 Estimated Costs and Returns per Acre
Watermelon, Seedless, Plastic Mulch, Drip Irrigated, Rio Grande Valley - 40 Acres
South Extension District - 12

Crop Acres		40				Enterprise
REVENUE	Quantity	Units	\$/Unit	Total	Total	Total
Watermelon, seedless	450.00	CWT	\$18.00	\$8,100.00	\$324,000.00	\$324,000.00
Total Revenue				\$8,100.00	\$324,000.00	\$324,000.00
VARIABLE COSTS	Quantity	Units	\$/Unit	Total	Total	Enterprise
Production Costs						
Herbicide						
Trifluralin 4EC	2.75	Pint	\$3.47	\$9.54	\$381.70	
Seed						
Hybrid Watermelon Seed	0.25	Pound	\$400.00	\$100.00	\$4,000.00	
Watermelon Seedlings	2	Thousand	\$150.00	\$300.00	\$12,000.00	
Fertilizer						
Phosphorus (46% P2O5)	1.3	CWT	\$25.00	\$32.50	\$1,300.00	
UAN (32% N)	1	CWT	\$14.00	\$14.00	\$560.00	
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	\$0.59	\$3.42	\$136.88	
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	\$6.93	\$6.93	\$277.20	
Quadris	32	Ounce	\$3.11	\$99.52	\$3,980.80	
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	1.81	Hour	\$12.00	\$21.72	\$868.80	
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	\$19.30	\$19.30	\$771.92	
Implements	1	Acre	\$8.40	\$8.40	\$336.08	
Interest on Credit Line			5.00%	\$19.04	\$761.52	
Total Variable Costs				\$2,796.96	\$111,878.43	
Planned Returns Above Variable Costs:				\$5,303.04	\$212,121.57	
Breakeven Price to Cover Variable Costs			\$6.22	CWT		
FIXED COSTS	Quantity	Units	\$/Unit	Total	Total	Enterprise
Machinery Depreciation						
Pickup/General Use Equipment	1	Acre	\$47.25	\$47.25	\$1,890.00	
Tractors/Self-Propelled	1	Acre	\$19.94	\$19.94	\$797.65	
Implements	1	Acre	\$10.16	\$10.16	\$406.50	
Equipment Investment						
Pickup/General Use Equipment	\$433.13	Dollars	7.00%	\$30.32	\$1,212.75	
Tractors/Self-Propelled	\$155.35	Dollars	7.00%	\$10.87	\$434.98	
Implements	\$47.16	Dollars	7.00%	\$3.30	\$132.04	
Cash Rent, Irrigated Vegetables	1	Acre	\$110.00	\$110.00	\$4,400.00	
Total Fixed Costs				\$231.85	\$9,273.91	
Total Specified Costs				\$3,028.81	\$121,152.34	
Returns Above Specified Costs				\$5,071.19	\$202,847.66	
Breakeven Price to Cover Total Costs			\$6.73	CWT		

Example Breakeven Prices			
Example Yield Percent	Example Yield CWT	To Cover Variable Costs	To Cover Total Costs
75%	337.50	\$8.29	\$8.97
90%	405.00	\$6.91	\$7.48
100%	450.00	\$6.22	\$6.73
110%	495.00	\$5.65	\$6.12
125%	562.50	\$4.97	\$5.38

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.