

2023 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	\$16.00	\$7,200.00	\$288,000.00
Total Revenue				\$7,200.00	\$288,000.00
VARIABLE COSTS	Quantity	Units	\$/Unit	Total	Enterprise Total
Production Costs					
Fertilizer					
Phosphorus (46% P2O5)	1.74	CWT	\$43.15	\$75.08	\$3,003.24
UAN (32% N)	2.5	CWT	\$33.95	\$84.88	\$3,395.00
Custom					
Bee Rental	1	Hive	\$85.00	\$85.00	\$3,400.00
Harvest and Sell Watermelons	450	CWT	\$8.50	\$3,825.00	\$153,000.00
Insecticide					
Asana XL	5.8	Ounce	\$0.62	\$3.62	\$144.91
Herbicide					
Trifluralin 4EC	2.75	Pint	\$4.75	\$13.06	\$522.23
Seed					
Hybrid Watermelon Seed	2.1	Thousand	\$30.00	\$63.00	\$2,520.00
Watermelon Seedlings	2.1	Thousand	\$115.00	\$241.50	\$9,660.00
Miscellaneous					
DripTape (2 seasons)	6550	Foot	\$0.03	\$208.95	\$8,357.80
Plastic Mulch, 3x4K'	0.61	Roll	\$198.00	\$120.78	\$4,831.20
Sulfuric Acid	26	Ounce	\$0.22	\$5.77	\$230.67
Other Labor					
Transplant Melons	8	Hour	\$15.00	\$120.00	\$4,800.00
Pickup Plastic	8	Hour	\$15.00	\$120.00	\$4,800.00
Unallocated Labor	0.8992	Hour	\$15.00	\$13.49	\$539.52
Fungicides					
Bravo Ultrex	1	Pound	\$10.23	\$10.23	\$409.30
Quadris	32	Ounce	\$1.56	\$49.99	\$1,999.50
Irrigation					
Water Cost	1.13	Acre/Foot	\$33.64	\$38.14	\$1,525.76
Irrigation Labor	0.19	Hour	\$17.50	\$3.31	\$132.30
Machinery Labor					
Tractors/Self-Propelled	1.4	Hour	\$17.21	\$24.09	\$963.76
Other Labor	0.41	Hour	\$17.21	\$7.06	\$282.24
Diesel Fuel					
Tractors/Self-Propelled	9	Gallon	\$2.24	\$20.16	\$806.40
Repairs & Maintenance					
Tractors/Self-Propelled	1	Acre	\$21.02	\$21.02	\$840.94
Implements	1	Acre	\$10.35	\$10.35	\$414.01
Interest on Credit Line			8.00%	\$50.18	\$2,007.37
Total Variable Costs				\$5,214.65	\$208,586.15
Planned Returns Above Variable Costs:				\$1,985.35	\$79,413.85
Breakeven Price to Cover Variable Costs			\$11.59 CWT		
FIXED COSTS	Quantity	Units	\$/Unit	Total	Enterprise Total
Machinery Depreciation					
Tractors/Self-Propelled	1	Acre	\$21.72	\$21.72	\$868.97
Implements	1	Acre	\$12.38	\$12.38	\$495.02
Equipment Investment					
Tractors/Self-Propelled	\$169.24	Dollars	8.00%	\$13.54	\$541.56
Implements	\$54.74	Dollars	8.00%	\$4.38	\$175.16
Cash Rent, Irrigated Vegetables	1	Acre	\$110.00	\$110.00	\$4,400.00
Total Fixed Costs				\$162.02	\$6,480.71
Total Specified Costs				\$5,376.67	\$215,066.86
Returns Above Specified Costs				\$1,823.33	\$72,933.14
Breakeven Price to Cover Total Costs			\$11.95 CWT		

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.