

2021 Estimated Costs and Returns per Acre
Watermelon, Seedless, Plastic Mulch, Drip Irrigated, Rio Grande Valley
South Extension District - 12

Crop Acres		40				
		Quantity	Units	\$/Unit	Total	Enterprise Total
REVENUE						
Watermelon, seedless		450.00	CWT	\$16.00	\$7,200.00	\$288,000.00
Total Revenue					\$7,200.00	\$288,000.00
VARIABLE COSTS						
Production Costs						
Fertilizer						
Phosphorus (46% P2O5)		1.74	CWT	\$23.30	\$40.54	\$1,621.68
UAN (32% N)		2.5	CWT	\$12.65	\$31.63	\$1,265.00
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
Insecticide						
Asana XL		5.8	Ounce	\$0.60	\$3.49	\$139.49
Herbicide						
Trifluralin 4EC		2.75	Pint	\$6.45	\$17.73	\$709.23
Seed						
Hybrid Watermelon Seed		2.1	Thousand	\$30.00	\$63.00	\$2,520.00
Watermelon Seedlings		2.1	Thousand	\$100.00	\$210.00	\$8,400.00
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
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	\$10.04	\$10.04	\$401.56
Quadris		32	Ounce	\$1.44	\$46.24	\$1,849.50
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	\$2.00	\$18.00	\$720.00
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				5.00%	\$22.38	\$895.13
Total Variable Costs					\$4,523.14	\$180,925.48
Planned Returns Above Variable Costs:					\$2,676.86	\$107,074.52
Breakeven Price to Cover Variable Costs				\$10.05 CWT		
FIXED COSTS						
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	7.00%	\$11.85	\$473.87
Implements		\$54.74	Dollars	7.00%	\$3.83	\$153.26
Cash Rent, Irrigated Vegetables		1	Acre	\$110.00	\$110.00	\$4,400.00
Total Fixed Costs					\$159.78	\$6,391.12
Total Specified Costs					\$4,682.91	\$187,316.60
Returns Above Specified Costs					\$2,517.09	\$100,683.40
Breakeven Price to Cover Total Costs				\$10.41 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.