

# Watermelon Price/Yield Sensitivity Analysis

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## Returns Above Specified Costs

		Price/lb											
		\$0.04	\$0.05	\$0.06	\$0.07	\$0.08	\$0.09	\$0.10	\$0.11	\$0.12	\$0.13	\$0.14	\$0.15
Yield (lbs/acre)	36000	(\$1,857.51)	(\$1,497.51)	(\$1,137.51)	(\$777.51)	(\$417.51)	(\$57.51)	\$302.49	\$662.49	\$1,022.49	\$1,382.49	\$1,742.49	\$2,102.49
	37000	(\$1,817.51)	(\$1,447.51)	(\$1,077.51)	(\$707.51)	(\$337.51)	\$32.49	\$402.49	\$772.49	\$1,142.49	\$1,512.49	\$1,882.49	\$2,252.49
	38000	(\$1,777.51)	(\$1,397.51)	(\$1,017.51)	(\$637.51)	(\$257.51)	\$122.49	\$502.49	\$882.49	\$1,262.49	\$1,642.49	\$2,022.49	\$2,402.49
	39000	(\$1,737.51)	(\$1,347.51)	(\$957.51)	(\$567.51)	(\$177.51)	\$212.49	\$602.49	\$992.49	\$1,382.49	\$1,772.49	\$2,162.49	\$2,552.49
	40000	(\$1,697.51)	(\$1,297.51)	(\$897.51)	(\$497.51)	(\$97.51)	\$302.49	\$702.49	\$1,102.49	\$1,502.49	\$1,902.49	\$2,302.49	\$2,702.49
	41000	(\$1,657.51)	(\$1,247.51)	(\$837.51)	(\$427.51)	(\$17.51)	\$392.49	\$802.49	\$1,212.49	\$1,622.49	\$2,032.49	\$2,442.49	\$2,852.49
	42000	(\$1,617.51)	(\$1,197.51)	(\$777.51)	(\$357.51)	\$62.49	\$482.49	\$902.49	\$1,322.49	\$1,742.49	\$2,162.49	\$2,582.49	\$3,002.49
	43000	(\$1,577.51)	(\$1,147.51)	(\$717.51)	(\$287.51)	\$142.49	\$572.49	\$1,002.49	\$1,432.49	\$1,862.49	\$2,292.49	\$2,722.49	\$3,152.49
	44000	(\$1,537.51)	(\$1,097.51)	(\$657.51)	(\$217.51)	\$222.49	\$662.49	\$1,102.49	\$1,542.49	\$1,982.49	\$2,422.49	\$2,862.49	\$3,302.49
	45000	(\$1,497.51)	(\$1,047.51)	(\$597.51)	(\$147.51)	\$302.49	\$752.49	\$1,202.49	\$1,652.49	\$2,102.49	\$2,552.49	\$3,002.49	\$3,452.49*
	46000	(\$1,457.51)	(\$997.51)	(\$537.51)	(\$77.51)	\$382.49	\$842.49	\$1,302.49	\$1,762.49	\$2,222.49	\$2,682.49	\$3,142.49	\$3,602.49
	47000	(\$1,417.51)	(\$947.51)	(\$477.51)	(\$7.51)	\$462.49	\$932.49	\$1,402.49	\$1,872.49	\$2,342.49	\$2,812.49	\$3,282.49	\$3,752.49
	48000	(\$1,377.51)	(\$897.51)	(\$417.51)	\$62.49	\$542.49	\$1,022.49	\$1,502.49	\$1,982.49	\$2,462.49	\$2,942.49	\$3,422.49	\$3,902.49
	49000	(\$1,337.51)	(\$847.51)	(\$357.51)	\$132.49	\$622.49	\$1,112.49	\$1,602.49	\$2,092.49	\$2,582.49	\$3,072.49	\$3,562.49	\$4,052.49
	50000	(\$1,297.51)	(\$797.51)	(\$297.51)	\$202.49	\$702.49	\$1,202.49	\$1,702.49	\$2,202.49	\$2,702.49	\$3,202.49	\$3,702.49	\$4,202.49
51000	(\$1,257.51)	(\$747.51)	(\$237.51)	\$272.49	\$782.49	\$1,292.49	\$1,802.49	\$2,312.49	\$2,822.49	\$3,332.49	\$3,842.49	\$4,352.49	
52000	(\$1,217.51)	(\$697.51)	(\$177.51)	\$342.49	\$862.49	\$1,382.49	\$1,902.49	\$2,422.49	\$2,942.49	\$3,462.49	\$3,982.49	\$4,502.49	
53000	(\$1,177.51)	(\$647.51)	(\$117.51)	\$412.49	\$942.49	\$1,472.49	\$2,002.49	\$2,532.49	\$3,062.49	\$3,592.49	\$4,122.49	\$4,652.49	
54000	(\$1,137.51)	(\$597.51)	(\$57.51)	\$482.49	\$1,022.49	\$1,562.49	\$2,102.49	\$2,642.49	\$3,182.49	\$3,722.49	\$4,262.49	\$4,802.49	
55000	(\$1,097.51)	(\$547.51)	\$2.49	\$552.49	\$1,102.49	\$1,652.49	\$2,202.49	\$2,752.49	\$3,302.49	\$3,852.49	\$4,402.49	\$4,952.49	

2018 Average Retail Price for Watermelons in 2017 is \$0.33/lb

2018 Average Whole Sale Price for Watermelons is \$0.26/lb

\* Estimated Average Yield per acre is 45,000 lbs

Estimated Costs of Production per acre is \$3,297.51

SOURCE: Pricing - <https://www.ams.usda.gov/market-news/fruits-vegetables>

SOURCE: Budgets - <https://www.uaex.edu/farm-ranch/economics-marketing/farm-planning/budgets/specialty-crops-budgets.aspx>

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