

Vine Ripe Tomato Budget - 2025

NC STATE
UNIVERSITY

ESTIMATED COSTS AND RETURNS PER ACRE, 2025

Yield 42,000 lbs per acre, 5' rows on center and 18" plant spacing
1 box of Tomatoes = 25lbs

	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	YOUR FARM
1. GROSS RECEIPTS					
Projected Yields =80% base yield:					
Jumbo and XL Fruit (40%)	LBS	16,800.00	\$0.48	\$8,064.00	_____
Large (40%)	LBS	16,800.00	\$0.46	\$7,728.00	_____
Medium and Small (20%)	LBS	8,400.00	\$0.44	\$3,696.00	_____
AVERAGE:					
TOTAL RECEIPTS:		42,000.00	\$0.46	\$19,488.00	_____
2. VARIABLE COSTS					
TOMATO SEED	EACH	67.00	\$0.09	\$6.03	_____
FERTILIZER					
6-3-18	LBS	800.00	\$0.50	\$400.00	_____
13-0-44 POTASSIUM NITRATE	LBS	275.00	\$0.58	\$159.50	_____
CN-9-9-0-0	GAL	40.00	\$1.52	\$60.80	_____
LIME SPREAD	TON	1.50	\$85.00	\$127.50	_____
HERBICIDES	ACRE	1.00	\$180.05	\$180.05	_____
INSECTICIDES	ACRE	1.00	\$1,426.12	\$1,426.12	_____
FUNGICIDES	ACRE	1.00	\$901.05	\$901.05	_____
FUMIGANTS	LBS	132.00	\$5.00	\$1,320.00	_____
HAULING*	LBS	0.00	\$0.00	\$0.00	_____
COVER CROP- RYE	BU.	1.50	\$19.50	\$29.25	_____
REPLACEMENT STAKES**	STAKE	550.00	\$0.66	\$363.00	_____
STRING/TWINE	BOX	2.00	\$5.90	\$11.80	_____
TOMATO 25 LB. BOX***	BOX	1,680.00	\$1.50	\$2,520.00	_____
PLASTIC	ROLL	2.20	\$240.00	\$528.00	_____
DRIP TAPE	ROLL	1.10	\$150.00	\$165.00	_____
CROP INSURANCE	ACRE	1.00	\$588.00	\$588.00	_____
GROWER INCOME INSURANCE	ACRE	1.00	\$30.00	\$30.00	_____
TRACTOR/MACHINERY	ACRE	1.00	\$75.00	\$75.00	_____
LABOR					
Drip Irrigation	HRS	3.00	\$15.81	\$47.43	_____
Planting	HRS	16.00	\$15.81	\$252.96	_____
Staking	HRS	14.00	\$15.81	\$221.34	_____
Stringing	HRS	25.00	\$15.81	\$395.25	_____
Backpack spraying	HRS	6.00	\$15.81	\$94.86	_____
Pruning/Suckering	HRS	15.00	\$15.81	\$237.15	_____
Picking	BOX	1,680.00	\$2.50	\$4,200.00	_____
Packing	HRS	170.00	\$15.81	\$2,687.70	_____
Post-Harvest Clean Up	CONTRACT	1.00	\$400.00	\$400.00	_____
INTEREST ON OP. CAP.	DOL.	\$6,292.48	5.375%	\$338.22	_____
TOTAL VARIABLE COSTS:				\$17,766.01	_____
3. INCOME ABOVE VARIABLE COSTS:				\$1,721.99	_____
4. FIXED COSTS					
TRACTOR/MACHINERY	ACRE	1.00	\$156.93	\$156.93	_____
IRRIGATION	ACRE	1.00	\$63.50	\$63.50	_____
H2A OVERHEAD	ACRE	1.00	\$206.00	\$206.00	_____
GENERAL OVERHEAD	DOL.	\$17,766.01	7.0%	\$1,243.62	_____
TOTAL FIXED COSTS:				\$1,670.05	_____
6. TOTAL COSTS:				\$19,436.06	_____
7. NET RETURNS TO LAND, RISK, AND MANAGEMENT:				\$51.94	_____
BREAK-EVEN YIELD					
VARIABLE COSTS		38,288.81			\$0.42
TOTAL COSTS		41,888.06			\$0.46
BREAK-EVEN PRICE					
VARIABLE COSTS					\$0.42
TOTAL COSTS					\$0.46

* PLEASE NOTE: THIS BUDGET IS FOR PLANNING PURPOSES ONLY, IT DOES NOT INCLUDE LAND RENT

* Due to the variability of hauling costs it is not included in this budget

** Stake cost does not include initial fixed cost of stakes

*** Tomatoes will be packaged in 25 lb. box. Cannot reuse old boxes.

INCOME ABOVE VARIABLE COSTS AT DIFFERING YIELDS AND PRICES

PRICES RECEIVED	\$0.32	\$0.39	\$0.46	\$0.53	\$0.60
LBS TOMATOS PER ACRE					
29400	\$ (4,701.58)	\$ (2,655.34)	\$ (609.10)	\$ 1,437.14	\$ 3,483.38
35700	\$ (4,066.50)	\$ (1,581.78)	\$ 902.94	\$ 3,387.67	\$ 5,872.39
42000	\$ (3,431.41)	\$ (508.21)	\$ 2,414.99	\$ 5,338.19	\$ 8,261.39
48300	\$ (2,796.33)	\$ 565.36	\$ 3,927.04	\$ 7,288.72	\$ 10,650.40
54600	\$ (2,161.24)	\$ 1,638.92	\$ 5,439.08	\$ 9,239.24	\$ 13,039.40

TOMATO - HAND HARVEST

PER ACRE MACHINERY AND LABOR REQUIREMENTS FOR HAND HARVEST TOMATO						
MONTH	OPERATION	TIMES OVER	LABOR HOURS	MACHINE HOURS	VARIABLE COSTS	FIXED COSTS
3,11	HEAVY DISK 13'	3.00	0.61	0.51	\$16.80	\$37.23
3	4-BOTTOM FLIP PLOW	1.00	0.30	0.25	\$4.97	\$7.30
3	MULCH BEDDER-LAYER	1.00	0.62	0.52	\$10.23	\$16.86
3 thru 8	TRACTOR MTD SPRAYER 60 FT	16.00	1.36	0.64	\$25.44	\$89.92
3	TRACTOR MTD SPRAYER 60 FT	1.00	1.36	0.04	\$1.59	\$5.62
3 thru 8	DUMP TRUCK 12 TON	1.00	0.53	0.44	\$4.64	\$9.35
9	MULCH LAYER	1.00	0.62	0.52	\$9.27	\$14.87
9	WHIRL SEEDER	2.00	0.24	0.20	\$2.06	\$2.88
PER ACRE TOTALS FOR SELECTED OPERATIONS			4.25	1.96	\$75.00	\$156.93

CHEMICAL USE ASSUMPTIONS FOR HAND HARVEST TOMATO

	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	MONTH
HERBICIDES					
metribuzin (Sencor)	LB	2.00	\$81.25	\$162.50	MAR
Fomasafen (Reflex)	PT	1.00	\$5.75	\$5.75	MAR
metolachlor (Dual)	PT	1.33	\$8.88	\$11.80	MAR
INSECTICIDES:					
imidacloprid (Admire Pro)	OZ	9.00	\$1.09	\$9.81	2 X (MAR & MAY)
dicofol	LB	1.50	\$5.42	\$8.13	MAY
spinetoram (Radiant)	OZ	5.00	\$7.38	\$36.91	JUNE
rynaxapyr (Coragen)	OZ	3.50	\$391.00	\$1,368.50	JUNE
bifenthrin	OZ	5.00	\$0.55	\$2.77	JULY
FUNGICIDES:					
copper diammonia diacetate (copper)	PT	15.00	\$31.95	\$479.25	5 X (MAR-JUL)
mancozeb (Manzate)	LB	12.00	\$3.75	\$45.00	8 X (MAR-JUL)
acibenzolar (Actigard)	OZ	2.00	\$50.25	\$100.50	4 X (MAR-JUL)
azoxystrobin (Quadris)	OZ	18.60	\$1.11	\$20.63	3 X (MAR-SEP)
difenoconazole, cyprodinil (Inspire Super)	OZ	54.00	\$1.91	\$103.36	3 X (MAR-SEP)
penthiopyrad (Fontelis)	OZ	48.00	\$1.66	\$79.50	3 X (MAR-SEP)
cyazofamid (Ranman)	OZ	7.50	\$6.51	\$48.81	3 X (JUN- SEP)
chlorothalonil (Bravo)	PT	6.00	\$4.00	\$24.00	3 X (JUN- SEP)
FUMIGANTS:					
chloropicrin (Chlor-O-Pic)	LB	264.00	\$5.00	\$1,320.00	MAR
TOTAL:				\$3,827.22	

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