

Tobacco, Hand Harvest Hand Top-2025

NC STATE
UNIVERSITY

ESTIMATED COSTS AND RETURNS PER ACRE, 2025
PIEDMONT, NC

	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	YOUR FARM
1. GROSS RECEIPTS					
Stalk Position					
	Lugs LBS	0.00	\$0.00	\$0.00	_____
	Cutter LBS	0.00	\$0.00	\$0.00	_____
	Leaf and Tips LBS	0.00	\$0.00	\$0.00	_____
TOTAL RECEIPTS:				\$0.00	_____
2. VARIABLE COSTS					
PLANTS (GREENHOUSE)	THOU.	6.00	\$40.00	\$240.00	_____
MULTIPURPOSE FUMIGATION	GAL	8.00	\$30.00	\$240.00	_____
FERTILIZER					
6-6-18 (TOBACCO)	LBS	667.00	\$0.52	\$346.84	_____
CALCIUM NITRATE 15.5-0-0	LBS	193.00	\$0.33	\$63.69	_____
9-45-15 TRANSPLANT STARTER	LBS	11.00	\$1.65	\$18.15	_____
LIME SPREAD	TON	0.33	\$82.00	\$27.06	_____
HERBICIDES	ACRE	1.00	\$91.50	\$91.50	_____
INSECTICIDES	ACRE	1.00	\$75.75	\$75.75	_____
FUNGICIDES	ACRE	1.00	\$53.49	\$53.49	_____
SUCKER CONTROL	ACRE	1.00	\$186.24	\$186.24	_____
CONSULTING SERVICES**	ACRE	1.00	\$50.00	\$50.00	_____
CURING FUEL	GAL	250.00	\$1.32	\$329.75	_____
ELECTRICITY	KWH	1125.00	\$0.12	\$135.00	_____
HAULING	LBS	2500.00	\$0.050	\$125.00	_____
COVER CROP	ACRE	1.00	\$50.00	\$50.00	_____
IRRIGATION	CYCLE	3.00	\$13.94	\$41.82	_____
BALING SUPPLIES	LBS	2500.00	\$0.003	\$7.50	_____
CROP INSURANCE	ACRE	1.00	\$120.00	\$120.00	_____
TRACTOR/MACHINERY	ACRE	1.00	\$223.89	\$223.89	_____
LABOR					
Pre-Harvest	HRS	48.00	\$15.81	\$758.88	_____
Harvest/Baling	HRS	76.00	\$15.81	\$1,201.56	_____
Post Harvest	HRS	3.60	\$15.81	\$56.92	_____
INTEREST ON OP. CAP.	DOL.	\$1,816.99	5.375%	\$97.66	_____
TOTAL VARIABLE COSTS:				\$4,540.70	_____
3. INCOME ABOVE VARIABLE COSTS:					
4. FIXED COSTS					
TRACTOR/MACHINERY	ACRE	1.00	\$409.44	\$409.44	_____
BULK BARN	ACRE	1.00	\$132.58	\$132.58	_____
TOBACCO LOADING SYSTEM	ACRE	1.00	\$38.75	\$38.75	_____
BAILER	ACRE	1.00	\$7.50	\$7.50	_____
IRRIGATION	ACRE	1.00	\$63.50	\$63.50	_____
H2A OVERHEAD	ACRE	1.00	\$206.00	\$206.00	_____
TOTAL FIXED COSTS:				\$857.77	_____
6. TOTAL COSTS:				\$5,398.47	_____
7. NET RETURNS TO LAND, RISK, AND MANAGEMENT:					

* ALTERNATE FERTILIZER IS 8-8-24 WHICH IS APPLIED AT A RATE OF 500 LBS/ACRE AND COSTS \$800/TON

* CROP INSURANCE: 65% BASED PREMIUM. NO DISASTER SUBSIDIES.

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

**CONSULTING SERVICES INCLUDE SOIL SAMPLING WITH ANALYSIS AND SCOUTING IN SEASON

TOBACCO - HAND HARVEST						
PER ACRE MACHINERY AND LABOR REQUIREMENTS FOR HAND HARVEST TOBACCO						
MONTH	OPERATION	TIMES OVER	LABOR HOURS	MACHINE HOURS	VARIABLE COSTS	FIXED COSTS
11,3	HEAVY DISK 20'	2.00	0.24	0.20	\$9.56	\$25.40
3	FUMIGATION UNIT	1.00	0.52	0.43	\$11.67	\$45.41
3	TOBACCO BEDDER 4-ROW	1.00	0.19	0.16	\$2.02	\$3.17
4	TOBACCO BED SHAPER 4-ROW	1.00	0.19	0.16	\$1.92	\$2.89
4	TOBACCO TRANSPLANTER 4-ROW	1.00	13.85	0.88	\$27.48	\$50.95
4,5	CULTIVATOR 4-ROW	2.00	0.55	0.46	\$7.56	\$13.90
3 thru 8	HIBOY 90'	6.00	1.36	0.18	\$37.38	\$64.38
7,8,9,	TOBACCO TRAILER	5.00	2.15	12.90	\$105.90	\$199.45
9	BUSHHOG 14'	1.00	5.36	0.15	\$1.87	\$3.89
9	TOBACCO STRIPPER	1.00	5.36	0.63	\$18.53	\$26.38
PER ACRE TOTALS FOR SELECTED OPERATIONS			24.41	15.52	\$223.89	\$409.44

CHEMICAL USE ASSUMPTIONS FOR HAND HARVEST TOBACCO						
	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	MONTH	
HERBICIDES & FUNGICIDES:						
clomazone (Command)	PT	2.00	\$15.00	\$30.00	MAR	
Sulfentrazone (Spartan)	OZ	5.00	\$1.80	\$9.00	MAR	
napropamide (Devrinol)	QT	3.00	\$17.50	\$52.50	MAR	
SUCKER CONTROL:						
octanol and 1 decanol	GAL	7.00	\$20.00	\$140.00	JUL	
Prime +	QT	2.00	\$12.38	\$24.75	JUL	
maleic hydrazide	GAL	1.00	\$21.49	\$21.49	JUL	
INSECTICIDES:						
imidacloprid (Admire Pro)	OZ	6.00	\$1.35	\$8.07	APRIL	
spinosad (Blackhawk)	OZ	3.20	\$10.94	\$35.01	JUNE	
indoxacarb (Steward)	OZ	11.00	\$2.97	\$32.67	MAR	
FUNGICIDES:						
mefenoxam + oxathiapoprolin (4+4)	OZ	8.00	\$5.37	\$42.96	MAR	
azoxystrobin (Quadris)	OZ	9.00	\$1.17	\$10.53	JUNE	
TOTAL:				\$406.98		

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