

Tobacco, Hand Harvest Hand Top-2024

NC STATE
UNIVERSITY

ESTIMATED COSTS AND RETURNS PER ACRE, 2024
PIEDMONT, NC

	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	YOUR FARM
1. GROSS RECEIPTS					
Stalk Position					
	Lugs	LBS	0.00	\$0.00	_____
	Cutter	LBS	0.00	\$0.00	_____
	Leaf and Tips	LBS	0.00	\$0.00	_____
TOTAL RECEIPTS:				\$0.00	_____
2. VARIABLE COSTS					
PLANTS (GREENHOUSE)	THOU.	6.00	\$45.00	\$270.00	_____
MULTIPURPOSE FUMIGATION	GAL	8.00	\$30.00	\$240.00	_____
FERTILIZER					
6-6-18	CWT	6.67	\$44.45	\$296.48	_____
15.5-0-0	LBS	193.00	\$0.39	\$75.27	_____
9-45-15 TRANSPLANT STARTER	LBS	11.00	\$1.95	\$21.45	_____
LIME (PRORATED)	TON	0.33	\$95.00	\$31.35	_____
HERBICIDES	ACRE	1.00	\$88.33	\$88.33	_____
INSECTICIDES	ACRE	1.00	\$92.11	\$92.11	_____
FUNGICIDES	ACRE	1.00	\$49.38	\$49.38	_____
SUCKER CONTROL	ACRE	1.00	\$221.06	\$221.06	_____
SCOUTING	ACRE	1.00	\$50.00	\$50.00	_____
CURING FUEL	GAL	250.00	\$1.39	\$347.50	_____
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	\$230.58	\$230.58	_____
LABOR					
Pre-Harvest	HRS	48.00	\$14.91	\$715.68	_____
Harvest/Baling	HRS	72.00	\$14.91	\$1,073.52	_____
Post Harvest	HRS	3.60	\$14.91	\$53.68	_____
INTEREST ON OP. CAP.	DOL.	\$1,754.45	8.5%	\$149.13	_____
TOTAL VARIABLE COSTS:				\$4,484.84	_____
3. INCOME ABOVE VARIABLE COSTS:					
4. FIXED COSTS					
TRACTOR/MACHINERY	ACRE	1.00	\$474.66	\$474.66	_____
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:				\$922.99	_____
6. TOTAL COSTS:				\$5,407.83	_____
7. NET RETURNS TO LAND, RISK, AND MANAGEMENT:					

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

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

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	\$10.78	\$30.00
3	FUMIGATION UNIT	1.00	0.52	0.43	\$12.47	\$52.47
3	TOBACCO BEDDER 4-ROW	1.00	0.19	0.16	\$2.32	\$3.72
4	TOBACCO BED SHAPER 4-ROW	1.00	0.19	0.16	\$2.22	\$3.40
4	TOBACCO TRANSPLANTER 4-ROW	1.00	13.85	0.88	\$31.05	\$60.03
4,5	CULTIVATOR 4-ROW	2.00	0.55	0.46	\$8.72	\$16.42
3 thru 8	HIBOY 90'	6.00	1.36	0.18	\$39.96	\$74.82
7,8,9,	TOBACCO TRAILER	5.00	2.15	12.90	\$105.90	\$229.25
9	BUSHHOG 14'	1.00	5.36	0.15	\$2.15	\$4.55
9	TOBACCO STRIPPER	1.00	5.36	0.47	\$15.01	\$22.97
PER ACRE TOTALS FOR SELECTED OPERATIONS			24.41	15.52	\$230.58	\$474.66

CHEMICAL USE ASSUMPTIONS FOR HAND HARVEST TOBACCO

	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	MONTH
HERBICIDES & FUNGICIDES:					
clomazone (Command)	PT	2.00	\$17.50	\$35.00	MAR
Sulfentrazone (Spartan)	OZ	5.00	\$2.27	\$11.33	MAR
napropamide (Devrinol)	QT	3.00	\$14.00	\$42.00	MAR
SUCKER CONTROL:					
octanol and 1 decanol	GAL	7.00	\$24.73	\$173.08	JUL
Prime +	QT	2.00	\$13.00	\$26.00	JUL
maleic hydrazide	GAL	1.00	\$21.98	\$21.98	JUL
INSECTICIDES:					
imidacloprid (Admire Pro)	OZ	6.00	\$2.29	\$13.74	APRIL
spinosad (Blackhawk)	OZ	5.50	\$10.47	\$57.57	JUNE
indoxacarb (Steward)	OZ	11.00	\$1.89	\$20.80	MAR
FUNGICIDES:					
mefenoxam + oxathiapoprolin (4+4)	OZ	8.00	\$5.43	\$43.44	MAR
azoxystrobin (Quadris)	OZ	4.00	\$1.48	\$5.94	JUNE
TOTAL:				\$450.88	

Prepared by: Gary Bullen, Derek Washburn, Matthew Vann
North Carolina State University, Dept. Agricultural and Resource Economics