

Tobacco, Hand Harvest Hand Top-2023

NC STATE
UNIVERSITY

ESTIMATED COSTS AND RETURNS PER ACRE, 2023
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	\$45.00	\$270.00	_____
MULTIPURPOSE FUMIGATION	GAL	8.00	\$30.00	\$240.00	_____
FERTILIZER					
6-6-18	CWT	6.67	\$38.50	\$256.80	_____
15.5-0-0	LBS	193.00	\$0.34	\$65.62	_____
9-45-15 TRANSPLANT STARTER	LBS	11.00	\$2.13	\$23.43	_____
LIME (PRORATED)	TON	0.33	\$57.00	\$18.81	_____
HERBICIDES	ACRE	1.00	\$77.29	\$77.29	_____
INSECTICIDES	ACRE	1.00	\$67.60	\$67.60	_____
FUNGICIDES	ACRE	1.00	\$52.25	\$52.25	_____
SUCKER CONTROL	ACRE	1.00	\$218.09	\$218.09	_____
SURFACTANT	ACRE	1.00	\$20.76	\$20.76	_____
SCOUTING	ACRE	1.00	\$50.00	\$50.00	_____
CURING FUEL	GAL	325.00	\$0.95	\$308.75	_____
ELECTRICITY	KWH	1580.00	\$0.10	\$158.00	_____
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	\$181.37	\$181.37	_____
LABOR					
Pre-Harvest	HRS	48.00	\$14.16	\$679.68	_____
Harvest/Baling	HRS	72.00	\$14.16	\$1,019.52	_____
Post Harvest	HRS	3.60	\$14.16	\$50.98	_____
INTEREST ON OP. CAP.	DOL.	\$1,646.10	8.0%	\$131.69	_____
TOTAL VARIABLE COSTS:				\$4,234.96	_____
3. INCOME ABOVE VARIABLE COSTS:					
4. FIXED COSTS					
TRACTOR/MACHINERY	ACRE	1.00	\$248.08	\$248.08	_____
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:				\$696.41	_____
6. TOTAL COSTS:				\$4,931.37	_____
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	\$9.22	\$16.00
3	FUMIGATION UNIT	1.00	0.52	0.43	\$11.46	\$30.89
3	TOBACCO BEDDER 4-ROW	1.00	0.19	0.16	\$1.94	\$2.03
4	TOBACCO BED SHAPER 4-ROW	1.00	0.19	0.16	\$1.84	\$1.85
4	TOBACCO TRANSPLANTER 4-ROW	1.00	13.85	0.88	\$26.50	\$32.15
4,5	CULTIVATOR 4-ROW	2.00	0.55	0.46	\$7.24	\$8.72
3 thru 8	HIBOY 90'	6.00	1.36	0.18	\$36.66	\$43.20
7,8,9,	TOBACCO TRAILER	4.00	2.15	10.32	\$84.72	\$110.72
9	BUSHHOG 14'	1.00	5.36	0.15	\$1.79	\$2.52
PER ACRE TOTALS FOR SELECTED OPERATIONS			24.41	12.94	\$181.37	\$248.08

CHEMICAL USE ASSUMPTIONS FOR HAND HARVEST TOBACCO					
	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	MONTH
HERBICIDES & FUNGICIDES:					
clomazone (Command)	PT	2.00	\$14.13	\$28.25	MAR
Sulfentrazone (Spartan)	OZ	5.00	\$1.71	\$8.54	MAR
napropamide (Devrinol)	QT	3.00	\$13.50	\$40.50	MAR
SUCKER CONTROL:					
octanol and 1 decanol	GAL	7.00	\$24.73	\$173.08	JUL
Prime +	QT	2.00	\$15.31	\$30.63	JUL
maleic hydrazide	GAL	1.00	\$14.38	\$14.38	JUL
INSECTICIDES:					
imidacloprid (Admire Pro)	OZ	6.00	\$1.31	\$7.88	APRIL
spinosad (Blackhawk)	OZ	5.50	\$7.03	\$38.67	JUNE
indoxacarb (Steward)	OZ	11.00	\$1.91	\$21.05	MAR
FUNGICIDES:					
mefenoxam + oxathiapoprolin (4+4)	OZ	8.00	\$5.50	\$44.00	MAR
Fluopicolide (Presidio)	OZ	4.00	\$2.06	\$8.25	JUNE
TOTAL:				\$415.23	

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