

Tobacco, Machine Harvest-East-2020 NC STATE UNIVERSITY

ESTIMATED COSTS AND RETURNS PER ACRE, 2020

	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 LBS	0.00	\$0.00	\$0.00	_____
	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 FERTILIZER	GAL	10.50	\$17.13	\$179.87	_____
30% Nitrogen Solution	CWT	2.30	\$14.13	\$32.50	_____
0-0-50 POTASSIUM SULFATE	CWT	2.60	\$32.18	\$83.67	_____
9-45-15 Transplant Starter	LBS	18.00	\$1.05	\$18.90	_____
LIME (PRORATED)	TON	0.33	\$51.00	\$16.83	_____
HERBICIDES	ACRE	1.00	\$54.41	\$54.41	_____
INSECTICIDES	ACRE	1.00	\$73.02	\$73.02	_____
FUNGICIDES	ACRE	1.00	\$104.77	\$104.77	_____
SUCKER CONTROL	ACRE	1.00	\$187.53	\$187.53	_____
SURFACTANT	ACRE	1.00	\$20.99	\$20.99	_____
SCOUTING	ACRE	1.00	\$20.00	\$20.00	_____
CURING FUEL	LBS	325.00	\$1.10	\$357.50	_____
ELECTRICITY	KWH	1580.00	\$0.08	\$126.40	_____
HAULING	LBS	2500.00	\$0.050	\$125.00	_____
COVER CROP	ACRE	1.00	\$25.00	\$25.00	_____
BAILING SUPPLIES	LBS	2500.00	\$0.003	\$7.50	_____
CROP INSURANCE	ACRE	1.00	\$120.00	\$120.00	_____
TRACTOR/MACHINERY	ACRE	1.00	\$219.31	\$219.31	_____
LABOR					
Pre-Harvest	HRS	40.00	\$12.23	\$489.20	_____
Harvest/Baling	HRS	13.00	\$12.23	\$158.99	_____
Post Harvest	HRS	2.00	\$12.23	\$24.46	_____
INTEREST ON OP. CAP.	DOL.	\$962.23	5.0%	\$48.11	_____
TOTAL VARIABLE COSTS:				\$2,733.96	_____
3. INCOME ABOVE VARIABLE COSTS:					
4. FIXED COSTS					
TRACTOR/MACHINERY	ACRE	1.00	\$405.12	\$405.12	_____
BULK BARN	ACRE	1.00	\$132.58	\$132.58	_____
TOBACCO BOX LOADING SYSTEM	ACRE	1.00	\$38.75	\$38.75	_____
BAILER	ACRE	1.00	\$7.50	\$7.50	_____
H2A OVERHEAD	ACRE	1.00	\$206.00	\$206.00	_____
TOTAL FIXED COSTS:				\$789.95	_____
5. TOTAL COSTS:				\$3,523.91	_____
6. NET RETURNS TO LAND, RISK, AND MANAGEMENT:					

*LABOR HOURS REFLECT HAND TOPPING

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

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

TOBACCO - MACHINE HARVEST EAST						
PER ACRE MACHINERY AND LABOR REQUIREMENTS FOR MACHINE HARVEST TOBACCO						
MONTH	OPERATION	TIMES OVER	LABOR HOURS	MACHINE HOURS	VARIABLE COSTS	FIXED COSTS
11,3	HEAVY DISK 20'	2.00	0.22	0.20	\$7.02	\$11.72
3	FUMIGATION UNIT	1.00	0.47	0.43	\$4.50	\$6.02
3	TOBACCO BEDDER 4-ROW	1.00	0.18	0.16	\$1.90	\$2.33
4	TOBACCO BED SHAPER 4-ROW	1.00	0.18	0.16	\$1.80	\$2.12
4	TOBACCO TRANSPLANTER 4-ROW	1.00	0.97	0.88	\$23.70	\$22.18
4,5	CULTIVATOR 4-ROW	2.00	0.51	0.46	\$6.92	\$8.02
5 thru 8	HIBOY 90'	6.00	0.20	0.18	\$4.02	\$43.08
	PRE-HARVEST TOTAL		2.73			
7,8,9	TOBACCO COMBINE 2-ROW	4.00	4.58	4.16	\$104.16	\$214.04
7,8,9	TOBACCO TRAILER	3.00	8.51	7.74	\$63.54	\$92.73
9	BUSHHOG 14'	1.00	0.17	0.15	\$1.75	\$2.88
	PER-ACRE HARVEST TOTAL		13.26			
	PER ACRE TOTALS FOR SELECTED OPERATIONS		15.99	14.52	\$219.31	\$405.12

CHEMICAL USE ASSUMPTIONS FOR MACHINE HARVEST TOBACCO					
	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	MONTH
HERBICIDES:					
	PT	2.00	\$15.00	\$30.00	MAR
	OZ	5.30	\$3.20	\$16.98	MAR
	PT	1.80	\$4.13	\$7.43	MAR
SUCKER CONTROL:					
	GAL	9.00	\$18.64	\$167.76	JUL
	QT	0.50	\$15.38	\$7.69	JUL
	GAL	1.00	\$12.08	\$12.08	JUL
INSECTICIDES:					
	OZ	9.00	\$1.00	\$9.00	APRIL
	OZ	5.50	\$5.94	\$32.66	JUNE
	OZ	4.00	\$7.84	\$31.36	JUNE
FUNGICIDES:					
	PT	1.00	\$104.77	\$104.77	JUNE
	TOTAL:			\$419.73	

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