

# CLEMSON

## EXTENSION

Department of Applied Economics and Statistics

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**TOBACCO - MULTI-PASS, MACHINE HARVEST, BULK BARN**

ESTIMATED COSTS AND RETURNS PER ACRE, 2009/2010  
YIELD, 2400 POUNDS PER ACRE

	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	YOUR FARM
<b>1. GROSS RECEIPTS</b>					
TOBACCO	LBS	2400.00	\$1.79	\$4,296.00	_____
TOTAL RECEIPTS:				<b>\$4,296.00</b>	_____
<b>2. VARIABLE COSTS</b>					
PLANTS (GREENHOUSE)	THOU.	6.50	\$37.00	\$240.50	_____
FERTILIZER					
6-6-18	LBS	700.00	\$0.28	\$196.00	_____
CALCIUM NITRATE 15.5-0-0	LBS	200.00	\$0.28	\$56.00	_____
LIME (PRORATED)	TON	0.33	\$51.00	\$16.83	_____
HERBICIDES & FUNGICIDES	ACRE	1.00	\$215.60	\$215.60	_____
INSECTICIDES & NEMATICIDES	ACRE	1.00	\$213.93	\$213.93	_____
SUCKER CONTROL	ACRE	1.00	\$108.02	\$108.02	_____
CURING COSTS	LBS	2400.00	\$0.344	\$825.60	_____
BALING, HAULING & STORAGE	LBS	2400.00	\$0.150	\$360.00	_____
ASSESSMENTS****	LBS	2400.00	\$0.003	\$7.20	_____
CROP INSURANCE	ACRE	1.00	\$75.00	\$75.00	_____
TRACTOR/MACHINERY	ACRE	1.00	\$322.72	\$322.72	_____
LABOR	HRS	83.61	\$8.50	\$710.69	_____
INTEREST ON OP. CAP.	DOL.	\$684.80	9.0%	\$61.63	_____
TOTAL VARIABLE COSTS:				<b>\$3,409.72</b>	_____
<b>3. INCOME ABOVE VARIABLE COSTS:</b>				<b>\$886.28</b>	_____
<b>4. FIXED COSTS</b>					
TRACTOR/MACHINERY	ACRE	1.00	\$422.93	\$422.93	_____
BULK BARN	ACRE	1.00	\$335.00	\$335.00	_____
GREENHOUSE	ACRE	1.00	\$75.00	\$75.00	_____
TOTAL FIXED COSTS:				<b>\$832.93</b>	_____
<b>5. OTHER COSTS</b>					
LAND RENT	ACRE	1.00	\$50.00	\$50.00	_____
GENERAL OVERHEAD	DOL.	\$3,409.72	9.0%	\$306.87	_____
TOTAL OTHER COSTS:				<b>\$356.87</b>	_____
<b>6. TOTAL COSTS:</b>				<b>\$4,599.52</b>	_____
<b>7. NET RETURNS TO RISK AND MANAGEMENT:</b>				<b>-\$303.52</b>	_____

<b>BREAK-EVEN YIELD</b>		<b>BREAK-EVEN PRICE</b>	
VARIABLE COSTS	1715 LBS	VARIABLE COSTS	\$1.42
TOTAL COSTS	2643 LBS	TOTAL COSTS	\$1.92

\* CROP INSURANCE: 65% BASED PREMIUM. NO DISASTER SUBSIDIES.  
 \*\* PLEASE NOTE: THIS BUDGET IS FOR PLANNING PURPOSES ONLY.  
 \*\*\* ESTIMATED PORTION OF GROWERS ANNUAL DEPRECIATION CHARGE.  
 \*\*\*\* TOBACCO ASSOCIATES AND RESEARCH ASSESSMENT

TOBACCO - MULTI-PASS, MACHINE HARVEST, BULK BARN						
PER ACRE MACHINERY AND LABOR REQUIREMENTS FOR MACHINE HARVEST TOBACCO						
MONTH	OPERATION	TIMES OVER	LABOR HOURS	MACHINE HOURS	VARIABLE COSTS	FIXED COSTS
3&9	HEAVY DISK 13'	2.00	0.37	0.34	\$9.04	\$9.32
3	LIGHT DISKING W/ HERBICIDE	1.00	0.17	0.15	\$3.37	\$3.47
3	SUBSOILER BEDDER 2-ROW	1.00	0.50	0.45	\$5.99	\$5.61
4	TOBACCO TRANSPLANTER 2-ROW	1.00	1.69	1.54	\$32.99	\$24.02
4&5	CULTIVATOR 2-ROW	3.00	1.85	1.68	\$15.51	\$14.52
5,6&7	PULL TYPE SPRAYER	6.00	1.19	1.08	\$11.64	\$18.06
6&7	TOBACCO TOPPER 2-ROW	2.00	1.89	1.72	\$22.90	\$27.22
7,8&9	TOBACCO TRAILER	4.00	11.35	10.32	\$96.68	\$67.80
7,8&9	TOBACCO COMBINE 1-ROW	4.00	6.86	6.24	\$114.20	\$241.60
9	SMALL BALER	1.00	0.42	0.38	\$7.65	\$8.76
9	ROTARY MOWER 7'	1.00	0.32	0.29	\$2.75	\$2.55
PER ACRE TOTALS FOR SELECTED OPERATIONS			26.61	24.19	322.72	422.93
UNALLOCATED LABOR(HRS./AC.)			57.00			

INCOME ABOVE VARIABLE COSTS AT DIFFERING YIELDS AND PRICES					
YIELD	PRICE (\$/lbs.)				
LBS	\$1.64	\$1.74	\$1.79	\$1.84	\$1.94
2000	\$69.08	\$269.08	\$369.08	\$469.08	\$669.08
2200	\$297.68	\$517.68	\$627.68	\$737.68	\$957.68
2400	\$526.28	\$766.28	\$886.28	\$1,006.28	\$1,246.28
2600	\$754.88	\$1,014.88	\$1,144.88	\$1,274.88	\$1,534.88
2800	\$983.48	\$1,263.48	\$1,403.48	\$1,543.48	\$1,823.48

CHEMICAL USE ASSUMPTIONS FOR MACHINE HARVEST TOBACCO					
	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	MONTH
HERBICIDES & FUNGICIDES:					
clomazone (Command)	PT	2.00	\$12.28	\$24.56	MAR
Sulfentrazone (Spartan)	OZ	8.00	\$3.35	\$26.79	MAR
mefenoxam (Ridomil)	PT	2.00	\$82.13	\$164.25	MAR
SUCKER CONTROL:					
octanol and 1 decanol (Off Shoot)	GAL	4.50	\$16.00	\$72.00	2x JUL
flumetralin (Prime)	QT	2.00	\$8.25	\$16.50	JUL
maleic hydrazide (Royal)	GAL	1.50	\$13.01	\$19.52	JUL
INSECTICIDES & NEMATOCIDES:					
spinosad (Tracer)	OZ	1.40	\$5.05	\$7.08	MAY/AUG
acephate (Orthene)	OZ	1.50	\$0.61	\$0.91	JUN
imidacloprid (Admire)	OZ	12.00	\$6.18	\$74.16	MAR
dichloropropene+chloropicrin (Telone C1 GAL		10.50	\$12.55	\$131.78	MAR
TOTAL:				\$537.55	

The above listed chemicals are examples and do not imply exclusive recommendations by Clemson University. The "Pest Management Handbook" must be consulted. Production assumptions by Dewitt T. Gooden, Extension Specialist, (843) 662-3526, dgooden@clemson.edu.

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IAVC MINUS FIXED COST AT DIFFERING YIELDS AND PRICES					
YIELD	PRICE (\$/lbs.)				
LBS	\$1.64	\$1.74	\$1.79	\$1.84	\$1.94
2000	-\$763.85	-\$563.85	-\$463.85	-\$363.85	-\$163.85
2200	-\$535.25	-\$315.25	-\$205.25	-\$95.25	\$124.75
2400	-\$306.65	-\$66.65	\$53.35	\$173.35	\$413.35
2600	-\$78.05	\$181.95	\$311.95	\$441.95	\$701.95
2800	\$150.55	\$430.55	\$570.55	\$710.55	\$990.55

NET RETURNS TO RISK AT DIFFERING YIELDS AND PRICES					
YIELD	PRICE (\$/lbs.)				
LBS	\$1.64	\$1.74	\$1.79	\$1.84	\$1.94
2000	-\$1,102.83	-\$902.83	-\$802.83	-\$702.83	-\$502.83
2200	-\$883.18	-\$663.18	-\$553.18	-\$443.18	-\$223.18
2400	-\$663.52	-\$423.52	-\$303.52	-\$183.52	\$56.48
2600	-\$443.87	-\$183.87	-\$53.87	\$76.13	\$336.13
2800	-\$224.22	\$55.78	\$195.78	\$335.78	\$615.78