

COTTON, Roundup Ready - Conventional Tillage

ESTIMATED COSTS AND RETURNS PER ACRE
750 POUND YIELD

Acres
1

	UNIT	QUANTITY PER ACRE	PRICE OR COST/UNIT	TOTAL PER ACRE	YOUR FARM
1. GROSS RECEIPTS					
Cotton Lint	LBS	750.00	\$0.62	\$465.00	-----
Cotton Seed	LBS	1012.50	\$0.06	\$55.69	-----
TOTAL RECEIPTS:				\$520.69	-----
2. PRE-HARVEST VARIABLE COSTS					
SEED: COTTON-RR	1000 Seed	43.56	\$1.07	\$46.61	-----
Cover Crop					-----
FERTILIZER*	Soil Test Recommendation				-----
Nitrogen	LBS	64.00	\$0.38	\$24.32	-----
Phosphate	LBS	22.00	\$0.32	\$7.04	-----
Potash	LBS	27.00	\$0.26	\$7.02	-----
LIME (Prorated)	TON	0.33	\$32.50	\$10.73	-----
Trace Elements (Boron)	ACRE	1.00	\$4.25	\$4.25	-----
Fertilizer Application	ACRE	1.00	\$7.25	\$7.25	-----
Nematicides / Fumigants	ACRE	1.00	\$15.70	\$15.70	-----
Herbicides	ACRE	1.00	\$30.56	\$30.56	-----
Insecticides	ACRE	1.00	\$14.44	\$14.44	-----
Growth Regulators	ACRE	1.00	\$6.88	\$6.88	-----
Defoliant	ACRE	1.00	\$16.73	\$16.73	-----
Scouting, IPM, Soil Sampling	ACRE	1.00	\$0.00	\$0.00	-----
VDACS-BWEP	ACRE	1.00	\$3.50	\$3.50	-----
CROP INSURANCE	ACRE	1.00	\$11.97	\$11.97	-----
CASH RENT OR LAND CHARGE	ACRE	1.00	\$0.00	\$0.00	-----
Tractor Equipment: Fuel & Oil	Eq Gallons	5.49	\$2.35	\$12.89	-----
Tractor Equipment: Repairs	ACRE	1.00	\$10.60	\$10.60	-----
Tractor Equipment: Labor	HRS	0.90	\$12.00	\$10.80	-----
PRODUCTION INTEREST	6 MONTHS	\$120.65	7.0%	\$8.45	-----
TOTAL PRE-HARVEST COSTS		\$0.33 PER LB.		\$249.74	-----
3. HARVEST VARIABLE COSTS					
Tractor Equipment: Fuel & Oil	Eq Gallons	5.98	\$2.35	\$14.05	-----
Tractor Equipment: Repairs	ACRE	1.00	\$28.45	\$28.45	-----
Tractor Equipment: Labor	HRS	1.25	\$12.00	\$15.00	-----
Ginning	LBS	750.00	\$0.10	\$75.00	-----
TOTAL HARVEST COSTS:		\$0.18 PER LB.		\$132.50	-----
4. TOTAL VARIABLE COSTS		Breakeven Yield 617 Pounds	Breakeven Price \$0.51 PER Pound	\$382.24	-----
5. RETURN OVER TOTAL VARIABLE COSTS				\$138.45	-----
6. MACHINERY FIXED COSTS (BASED ON NEW EQUIPMENT COST)					
TRACTOR & MACHINERY	ACRE	1.00	\$100.02	\$100.02	-----
7. OTHER FIXED COSTS					
GENERAL OVERHEAD	DOL.	\$382.24	8.0%	\$30.58	-----
8. TOTAL FIXED COSTS:				\$130.60	-----
9. TOTAL VARIABLE & FIXED COSTS		\$0.68 PER Pound		\$512.84	-----
10. PROJECTED NET RETURNS TO LAND, RISK AND MANAGEMENT:				\$7.85	-----

* This BUDGET is for PLANNING PURPOSES ONLY. Fertilizer rates are based on projected nutrient removal of harvested crop.

* Fertilizer requirements will vary with application method, manure use and/or residual nutrient levels in the soil.

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PER ACRE MACHINERY AND LABOR REQUIREMENTS							
MONTH	OPERATION	Times OVER	LABOR HOURS	MACHINE HOURS	FUEL, OIL, & LUBE	REPAIR COSTS	FIXED COSTS
PRE-HARVEST							
	180HP + Tandem Disk 21FT Rigid	2	0.22	0.20	4.28	\$3.84	\$9.48
	180HP + Subsoiler-Planter W/Spra	1	0.13	0.12	2.57	\$3.90	\$8.12
	100HP + Cultivator 8-Row	1	0.17	0.15	1.78	\$1.48	\$2.75
	HIBOY (200HP - 60FT)	6	0.20	0.18	4.26	\$1.38	\$13.98
25%	UNALLOCATED LABOR(HRS./AC.)		0.18				
	SUB-TOTAL PRE-HARVEST		0.90	0.65	12.89	10.60	\$34.33
HARVEST							
	COTTON PICKER 4-ROW	1	0.36	0.33	7.71	\$21.22	\$50.83
	75HP + Cotton Boll Buggy	1	0.37	0.34	3.03	\$2.70	\$6.96
	100HP + Cotton Module Builder	1	0.12	0.11	1.31	\$1.62	\$2.59
	120HP + Rotary Mower-15FT Foldu	1	0.15	0.14	2.00	\$2.91	\$5.31
25%	UNALLOCATED LABOR(HRS./AC.)		0.25				
	SUB-TOTAL HARVEST		1.25	0.92	14.05	28.45	65.69

\$2.35 Fuel

INCOME ABOVE VARIABLE COSTS AT DIFFERING YIELDS AND PRICES							
FARM YIELD	TOTAL VARIABLE COSTS	FARM PRICE (\$/Lb.)					
LBS	COST/ACRE	\$0.50	\$0.56	\$0.62	\$0.68	\$0.74	
600	\$364.43	-\$19.88	\$16.12	\$52.12	\$88.12	\$124.12	
675	\$373.33	\$14.29	\$54.79	\$95.29	\$135.79	\$176.29	
750	\$382.24	\$48.45	\$93.45	\$138.45	\$183.45	\$228.45	
825	\$391.15	\$82.61	\$132.11	\$181.61	\$231.11	\$280.61	
900	\$400.05	\$116.78	\$170.78	\$224.78	\$278.78	\$332.78	

10% Table Sensitivity

CHEMICAL USE ASSUMPTIONS							
TYPE	Trade Name	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	MONTH PERIOD	
X	Temik 15G	LB	5.00	\$3.14	\$15.70	April	
H	Prowl 3.3EC	PT	1.50	\$2.22	\$3.33	April	
H	Roundup or other Formulations	QT	1.00	\$5.19	\$5.19	May	
H	Staple	OZ	1.20	\$17.55	\$21.06	June	
H	Surfactant	PT	1.00	\$0.98	\$0.98	June	
I	Baythroid	OZ	3.20	\$2.41	\$7.71	July 2X	
I	Karate-Z	OZ	2.56	\$2.63	\$6.73	July	
G	Pix Plus	OZ	16.00	\$0.43	\$6.88	June / July 2X	
D	Finish 6SC	PT	1.50	\$7.82	\$11.73	Sept.	
D	Prep	PT	1.00	\$5.00	\$5.00	Sept.	

Notes Chemical Type: H = Herbicide; I = Insecticide; F = Fungicide; G = Growth Regulator; X=Nemacides/Fumigants;D=Defoliants

Trade and brand names are used only for the purpose of providing information. Virginia Cooperative Extension does not guarantee or warrant the standard of any product named to the exclusion of others which also may be suitable.