

Estimating 2007 Costs of Production, Cotton
Northeast Boll Weevil Eradication Zone, Non-Irrigated, 8 Row,
Stale Seedbed, Roundup Ready
AG-1047-12-06

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HARVEST AIDS					
CottonQuik	pt	3.27	3.0000	9.83	_____
Dropp 50 WP	lb	40.75	0.1000	4.08	_____
FERTILIZERS					
0-60-120-10-1	acre	45.56	1.0000	45.56	_____
Urea, Solid (46% N)	lb	0.17	174.0000	30.45	_____
HERBICIDES					
Glyphosate Plus	pt	1.97	5.2000	10.24	_____
Clarity	pt	11.00	0.5000	5.50	_____
Gramoxone Extra	pt	4.86	0.2500	1.22	_____
Dual Magnum	pt	12.66	1.0000	12.66	_____
Caparol 4L	pt	3.71	0.1500	0.56	_____
Direx 80 DF	lb	3.89	0.3300	1.28	_____
INSECTICIDES					
Centric 40WG	oz	4.60	2.0000	9.20	_____
Trimax	oz	4.47	1.5000	6.72	_____
Orthene 90S	lb	8.59	1.0000	8.59	_____
Bidrin 8L	oz	0.76	16.0000	12.31	_____
Pyrethroid	ac	6.00	2.0000	12.00	_____
CROP SEED					
Cottonseed RR	thous	0.42	45.0000	18.90	_____
Cruiser Seed Trmnt	thous	0.20	45.0000	9.00	_____
TECHNOLOGY FEE					
RR Cotton Tech Fee N	thous	0.61	45.0000	27.59	_____
Eradication Fee DZ	ac	14.00	1.0000	14.00	_____
CUSTOM HIRE					
Cstm Ap Air - 3 gal	appl	5.10	1.0000	5.10	_____
Cstm Ap Air - 5 gal	appl	5.50	8.0000	44.00	_____
Insect Scouting	acre	10.00	1.0000	10.00	_____
OPERATOR LABOR					
Tractors	hour	9.00	1.2652	11.39	_____
Self-Propelled	hour	9.00	0.3150	2.84	_____
HAND LABOR					
Implements	hour	7.80	0.3720	2.90	_____
Self-Propelled	hour	7.80	0.2864	2.24	_____
DIESEL FUEL					
Tractors	gal	2.22	12.2320	27.16	_____
Self-Propelled	gal	2.22	3.9732	8.81	_____
REPAIR & MAINTENANCE					
Implements	acre	7.94	1.0000	7.94	_____
Tractors	acre	4.71	1.0000	4.71	_____
Self-Propelled	acre	9.94	1.0000	9.94	_____
INTEREST ON OP. CAP.	acre	11.29	1.0000	11.29	_____
TOTAL DIRECT EXPENSES				388.04	_____
FIXED EXPENSES					
Implements	acre	19.06	1.0000	19.06	_____
Tractors	acre	36.31	1.0000	36.31	_____
Self-Propelled	acre	49.01	1.0000	49.01	_____
TOTAL FIXED EXPENSES				104.38	_____
TOTAL SPECIFIED EXPENSES				492.42	_____

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Table 2. Estimated resource use and costs for field operations, per acre AG-1047 NE, NI, 8R, SS, RR, University of Arkansas

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Stalk Shredder-Flail	20'	MFWD 150	0.082	1.00	Oct	1.67	1.92	1.29	0.98	0.08	0.74				6.60
TerraTill Bed w/roll	4R-38	MFWD 225	0.160	1.00	Oct	4.78	4.98	0.66	1.47	0.16	1.45				13.34
Fert Appl - T & O	8r27	MFWD 170	0.050	1.00	Nov	1.15	1.38			0.05	0.45				2.98
0-60-120-10-1	acre											1.0000	45.56	45.56	45.56
Field Cultivate	32'	MFWD 190	0.046	1.00	Nov	1.19	1.36	0.31	1.64	0.04	0.42				4.92
Disk Bed (Hipper)Fld	8R-38	MFWD 190	0.074	1.00	Nov	1.89	2.16	0.29	0.95	0.07	0.67				5.96
Sprayer(600-750Gal)	60'		0.017	1.00	Feb	0.53	1.05			0.02	0.23				1.81
Glyphosate Plus	pt											1.5000	1.97	2.96	2.96
Clarity	pt											0.5000	11.00	5.50	5.50
Sprayer(600-750Gal)	60'		0.017	0.25	Apr	0.13	0.26			0.00	0.06				0.45
Gramoxone Extra	pt											0.2500	4.86	1.22	1.22
Disk Bed (Hipper)Fld	8R-38	MFWD 190	0.074	1.00	Apr	1.89	2.16	0.29	0.95	0.07	0.67				5.96
Row Cond (Harrow)	26'	MFWD 190	0.057	1.00	Apr	1.47	1.67	0.14	0.72	0.05	0.52				4.52
Plant - Folding	8R-40	MFWD 170	0.074	1.00	May	1.72	2.06	0.86	2.07	0.14	1.25				7.96
Cottonseed RR	thous											45.0000	0.42	18.90	18.90
RR Cotton Tech Fee	N thous											45.0000	0.61	27.59	27.59
Cruiser Seed Trmnt	thous											45.0000	0.20	9.00	9.00
Fert Appl - T & O	8r27	MFWD 170	0.050	1.00	May	1.15	1.38			0.05	0.45				2.98
Urea, Solid (46% N)	lb											174.0000	0.17	30.45	30.45
Sprayer(600-750Gal)	60'		0.017	1.00	May	0.53	1.05			0.02	0.23				1.81
Glyphosate Plus	pt											1.0000	1.97	1.97	1.97
Sprayer(600-750Gal)	60'		0.017	1.00	Jun	0.53	1.05			0.02	0.23				1.81
Glyphosate Plus	pt											1.5000	1.97	2.96	2.96
Dual Magnum	pt											1.0000	12.66	12.66	12.66
Spray (Band)	27' Fold	MFWD 170	0.062	0.20	Jun	0.28	0.35	0.03	0.05	0.01	0.16				0.87
Caparol 4L	pt											0.1500	3.71	0.56	0.56
Glyphosate Plus	pt											0.2000	1.97	0.39	0.39
Cstm Ap Air - 3 gal	appl			1.00	Jun							1.0000	5.10	5.10	5.10
Centric 40WG	oz											2.0000	4.60	9.20	9.20
Spray (Direct/Layby)	8R-38	MFWD 170	0.066	1.00	Jun	1.54	1.85	0.25	0.38	0.10	0.86				4.88
Direx 80 DF	lb											0.3300	3.89	1.28	1.28
Glyphosate Plus	pt											1.0000	1.97	1.97	1.97
Cstm Ap Air - 5 gal	appl			1.00	Jul							1.0000	5.50	5.50	5.50
Trimax	oz											1.5000	4.47	6.72	6.72
Insect Scouting	acre			1.00	Jul							1.0000	10.00	10.00	10.00
Cstm Ap Air - 5 gal	appl			1.00	Jul							1.0000	5.50	5.50	5.50
Orthene 90S	lb											0.5000	8.59	4.30	4.30
Cstm Ap Air - 5 gal	appl			1.00	Jul							1.0000	5.50	5.50	5.50
Bidrin 8L	oz											8.0000	0.76	6.16	6.16
Eradication Fee	DZ			1.00	Jul							1.0000	14.00	14.00	14.00
Cstm Ap Air - 5 gal	appl			1.00	Jul							1.0000	5.50	5.50	5.50
Orthene 90S	lb											0.5000	8.59	4.30	4.30
Cstm Ap Air - 5 gal	appl			1.00	Jul							1.0000	5.50	5.50	5.50
Pyrethroid	ac											1.0000	6.00	6.00	6.00
Cstm Ap Air - 5 gal	appl			1.00	Aug							1.0000	5.50	5.50	5.50
Bidrin 8L	oz											8.0000	0.76	6.16	6.16
Cstm Ap Air - 5 gal	appl			1.00	Aug							1.0000	5.50	5.50	5.50
Pyrethroid	ac											1.0000	6.00	6.00	6.00
Cstm Ap Air - 5 gal	appl			1.00	Sep							1.0000	5.50	5.50	5.50
CottonQuik	pt											3.0000	3.27	9.83	9.83
Dropp 50 WP	lb											0.1000	40.75	4.08	4.08

Boll Buggy-1st pick	4R-38(325)	MFWD 190	0.257	1.00	Oct	6.57	7.52	1.65	4.25	0.25	2.32	22.31	
Cotton Picker-1st-BB	4R-38(255)		0.257			17.03	45.60			0.51	4.33	66.96	
Module Builder-1st	4R-38(255)	MFWD 190	0.257	1.00	Oct	6.57	7.52	2.17	5.60	0.51	4.33	26.19	
						-----	-----	-----	-----	-----	-----	-----	
TOTALS						50.62	85.32	7.94	19.06	2.23	19.37	298.82	481.13
INTEREST ON OPERATING CAPITAL												11.29	
UNALLOCATED LABOR												0.00	
TOTAL SPECIFIED COST												492.42	

Information presented in this document is prepared solely as a general guide and is not intended to recognize or predict the costs and returns from any one particular farm operation. The mention of any commercial product in this analysis does not imply its endorsement by the University of Arkansas Cooperative Extension Service over other products not named, nor does the omission imply that they are not satisfactory. This budget does not include costs for land, overhead, or management.

Table 3. Alternative cotton production practices and which cotton budgets contain them.

Production Practice	Cost per acre^a	Budget No.
Bud worm/boll worm control		
Lannate (1 gal./ 4 acres)	\$19.23	None
Larvin (1 gal./ 3.5 acres)	\$22.93	None
Tracer (1 gal./ 64 acres)	\$18.41	None
Tracer (1/2 rate) + Pyretheroid	\$18.19	None
Defoliation for Irrigated Cotton	\$27.79	All budgets except: AG-1027, 1038, and 1048
Defoliation for Dryland Cotton	\$19.55	AG-1027, 1038, and 1048
Cruiser seed treatment	\$9.31	AG-1027, 1028, 1029, 1030, 1032, 1033, 1034, 1035, 1036, 1038, 1039, 1040, 1042, 1043, 1044, 1045, 1047, 1048, 1049, 1050, 1051, 1053, 1054, 1055
Gaucho seed treatment	\$9.31	AG-1031 and 1041
Avicta Complete Pak seed treatment	\$21.60	None
Harvest 4 row harvester, first pick ^b	\$66.96	AG-1027, 1028, 1029, 1030, 1038, 1047, and 1054
4 row harvester, second pick ^b	\$56.73	None
6 row harvester, (38" rows), first pick ^b	\$66.39	All budgets except: AG-1027, 1028, 1029, 1030, 1038, 1047, and 10542
6 row harvester, (38" rows), second pick ^b	\$56.23	None
Irrigation, furrow (3 ac. in)	\$8.35 per app. Plus a fixed cost of \$25.32	AG-1030, 1031, 1033, 1034, 1035, 1036, 1037, 1040, 1041, 1042, 1043, 1044, 1048, 1049, and 1050
Irrigation, center pivot (1 ac. in)	\$5.75 per app. Plus a fixed cost of \$69.24	AG-1028, 1029, 1032, 1039, 1045, 1046, 1051, 1052, 1053, 1054, and 1055
Irrigation, furrow, stationary relift (3 ac. in)	\$4.63 per app. Plus a fixed cost of \$24.79	None
Module Builder	\$26.19	All
Row cultivate plus directed spray	\$6.42 + material	None
Staple herbicide banded application (0.6 oz)	\$14.40	None
Prowl, and Incorporate (1.2 pints)	\$8.55	None
Treflan, Incorporated application (0.75 pints)	\$9.16	None
Treflan and Incorporate (1.5 pints)	\$10.98	None

^a Machinery costs per acre assume that each machine is fully utilized on the farm.

^bThis harvest cost includes the direct and fixed costs of the cotton picker only.

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View and print all of the Arkansas crop budgets at http://www.uaex.edu/depts/ag_economics/crop_budgets.htm