

**Estimating 2007 Costs of Production, Cotton  
 Northeast Boll Weevil Eradication Zone, Furrow, 12 Row,  
 Stale Seedbed, WS/RRF, AG-1050-12-06**

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
<b>DIRECT EXPENSES</b>					
<b>HARVEST AIDS</b>					
Aim	oz	5.42	1.0000	5.42	_____
Dropp 50 WP	lb	40.75	0.1000	4.08	_____
Finish 6	pt	7.50	0.3300	2.48	_____
Ethephon	pint	3.69	1.6000	5.91	_____
<b>FERTILIZERS</b>					
0-60-120-10-1	acre	45.56	1.0000	45.56	_____
Urea, Solid (46% N)	lb	0.17	218.0000	38.15	_____
<b>FUNGICIDES</b>					
Terraclor 15 G	lb	1.32	7.0000	9.24	_____
<b>HERBICIDES</b>					
Glyphosate Plus	pt	1.97	6.1000	12.02	_____
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	0.7500	2.78	_____
Valor SX	lb	65.50	0.0562	3.68	_____
<b>INSECTICIDES</b>					
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	_____
<b>IRRIGATION SUPPLIES</b>					
IrrPipe+lay+pickup	acre	10.30	1.0000	10.30	_____
<b>CROP SEED</b>					
Cottonseed WS/RRFlex	thous	0.55	45.0000	24.75	_____
Cruiser Seed Trmnt	thous	0.20	45.0000	9.00	_____
<b>TECHNOLOGY FEE</b>					
WS/RRF Tech N	thous	1.14	45.0000	51.30	_____
Eradication Fee DZ	ac	14.00	1.0000	14.00	_____
<b>GROWTH REGULATORS</b>					
Mepiquat Chloride	oz	0.15	26.0000	4.06	_____
<b>ADJUVANTS</b>					
Surfactant (80-20)	pt	1.25	0.4000	0.50	_____
<b>CUSTOM HIRE</b>					
Cstm Ap Air - 3 gal	appl	5.10	1.0000	5.10	_____
Cstm Ap Air - 5 gal	appl	5.50	9.0000	49.50	_____
Insect Scouting	acre	10.00	1.0000	10.00	_____
<b>OPERATOR LABOR</b>					
Tractors	hour	9.00	0.8439	7.59	_____
Self-Propelled	hour	9.00	0.2104	1.91	_____
<b>IRRIGATION LABOR</b>					
Furrow Irr.	hour	7.80	0.3017	2.36	_____
<b>HAND LABOR</b>					
Implements	hour	7.80	0.2580	2.01	_____
Self-Propelled	hour	7.80	0.1914	1.50	_____
<b>DIESEL FUEL</b>					
Tractors	gal	2.22	8.4570	18.76	_____
Self-Propelled	gal	2.22	3.3198	7.38	_____
Furrow Irr.	gal	2.22	12.0000	26.64	_____
<b>REPAIR &amp; MAINTENANCE</b>					
Implements	acre	6.33	1.0000	6.33	_____
Tractors	acre	3.19	1.0000	3.19	_____
Self-Propelled	acre	10.14	1.0000	10.14	_____
Furrow Irr.	ac-in	0.29	12.0000	3.52	_____
INTEREST ON OP. CAP.	acre	13.89	1.0000	13.89	_____
<b>TOTAL DIRECT EXPENSES</b>				481.30	_____
<b>FIXED EXPENSES</b>					
Implements	acre	13.82	1.0000	13.82	_____
Tractors	acre	24.45	1.0000	24.45	_____
Self-Propelled	acre	49.56	1.0000	49.56	_____
Furrow Irr.	each	3038.56	0.0083	25.32	_____
<b>TOTAL FIXED EXPENSES</b>				113.15	_____
<b>TOTAL SPECIFIED EXPENSES</b>				594.45	_____

**Robert Hogan, Jr.**  
**Extension**  
**Economist**  
**- Farm**  
**Management**

**H. Scott Stiles**  
**Extension**  
**Economist - Risk**  
**Management**

**Frank Groves**  
**Research**  
**Verification**  
**Coordinator**

Table 2. Estimated resource use and costs for field operations, per acre AG-1050, NE, Furrow, 12R, Stale, WS/RRF, 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	6R-38	MFWD 225	0.107	1.00	Nov	3.19	3.33	0.59	1.33	0.10	0.97				9.41
Fert Appl - T & O	12r40	MFWD 190	0.033	1.00	Nov	0.85	0.97			0.03	0.30				2.12
0-60-120-10-1	acre											1.0000	45.56	45.56	45.56
Disk Bed (Hipper)	12R-38	MFWD 225	0.049	1.00	Nov	1.47	1.53	0.29	0.96	0.04	0.44				4.69
Sprayer( 600-825Gal)	90'		0.011	1.00	Feb	0.36	0.74			0.01	0.16				1.26
Glyphosate Plus	pt											1.5000	1.97	2.96	2.96
Clarity	pt											0.5000	11.00	5.50	5.50
Sprayer( 600-825Gal)	90'		0.011	0.25	Apr	0.09	0.19			0.00	0.04				0.32
Gramoxone Extra	pt											0.2500	4.86	1.22	1.22
Row Cond (Harrow)	38'	MFWD 225	0.039	1.00	Apr	1.17	1.22	0.16	0.86	0.03	0.35				3.76
Plant & Pre Folding	12R-40	MFWD 225	0.050	1.00	May	1.51	1.57	1.03	2.48	0.10	0.86				7.45
Cottonseed WS/RRFlex	thous											45.0000	0.55	24.75	24.75
WS/RRF Tech N	thous											45.0000	1.14	51.30	51.30
Cruiser Seed Trmnt	thous											45.0000	0.20	9.00	9.00
Terraclor 15 G	lb											7.0000	1.32	9.24	9.24
Fert Appl - T & O	12r40	MFWD 190	0.033	1.00	May	0.85	0.97			0.03	0.30				2.12
Urea, Solid (46% N)	lb											109.0000	0.17	19.08	19.08
Sprayer( 600-825Gal)	90'		0.011	1.00	May	0.36	0.74			0.01	0.16				1.26
Glyphosate Plus	pt											1.5000	1.97	2.96	2.96
Sprayer( 600-825Gal)	90'		0.011	1.00	May	0.36	0.74			0.01	0.16				1.26
Glyphosate Plus	pt											1.5000	1.97	2.96	2.96
Dual Magnum	pt											1.0000	12.66	12.66	12.66
Fert Appl - T & O	12r40	MFWD 190	0.033	1.00	Jun	0.85	0.97			0.03	0.30				2.12
Urea, Solid (46% N)	lb											109.0000	0.17	19.08	19.08
Spray (Direct/Hood)	12R-38	MFWD 170	0.044	1.00	Jun	1.03	1.23	0.35	0.53	0.06	0.57				3.71
Caparol 4L	pt											0.7500	3.71	2.78	2.78
Glyphosate Plus	pt											1.0000	1.97	1.97	1.97
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
Mepiquat Chloride	oz											4.0000	0.15	0.63	0.63
Spray (Band)	40' Fold	MFWD 170	0.042	0.60	Jun	0.58	0.70	0.07	0.10	0.03	0.33				1.78
Valor SX	lb											0.0562	65.50	3.68	3.68
Glyphosate Plus	pt											0.6000	1.97	1.18	1.18
IrrPipe+lay+pickup	acre			1.00	Jun							1.0000	10.30	10.30	10.30
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
Mepiquat Chloride	oz											10.0000	0.15	1.56	1.56
Eradication Fee DZ	ac			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
Mepiquat Chloride	oz											12.0000	0.15	1.88	1.88
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	
Aim	oz											0.3300	5.42	1.79	1.79	
Dropp 50 WP	lb											0.1000	40.75	4.08	4.08	
Finish 6	pt											0.3300	7.50	2.48	2.48	
Surfactant (80-20)	pt											0.2000	1.25	0.25	0.25	
Cstm Ap Air - 5 gal	appl			1.00	Sep							1.0000	5.50	5.50	5.50	
Aim	oz											0.6700	5.42	3.63	3.63	
Ethephon	pint											1.6000	3.69	5.91	5.91	
Surfactant (80-20)	pt											0.2000	1.25	0.25	0.25	
Boll Buggy-1st pick	6R-38(325)	MFWD	190	0.172	1.00	Oct	4.39	5.02	1.10	2.84	0.17	1.55			14.90	
Cotton Picker-1st-BB	6R-38(330)			0.172			16.35	47.15			0.34	2.89			66.39	
Module Builder-1st	6R-38(325)	MFWD	190	0.172	1.00	Oct	4.39	5.02	1.45	3.74	0.34	2.89			17.49	
Furrow Irr.	each			1.00	Jun					25.32			0.0083		25.32	
Application 1	ac-in									7.54	0.07	0.59	3.0000		8.13	
Application 2	ac-in									7.54	0.07	0.59	3.0000		8.13	
Application 3	ac-in									7.54	0.07	0.59	3.0000		8.13	
Application 4	ac-in									7.54	0.07	0.59	3.0000		8.13	
TOTALS							39.47	74.01	36.49	39.14	1.80	15.37			376.08	580.56
INTEREST ON OPERATING CAPITAL																13.89
UNALLOCATED LABOR																0.00
TOTAL SPECIFIED COST																594.45

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.**

<b>Production Practice</b>	<b>Cost per acre<sup>a</sup></b>	<b>Budget No.</b>
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 <sup>b</sup>	\$66.96	AG-1027, 1028, 1029, 1030, 1038, 1047, and 1054
4 row harvester, second pick <sup>b</sup>	\$56.73	None
6 row harvester, (38" rows), first pick <sup>b</sup>	\$66.39	All budgets except: AG-1027, 1028, 1029, 1030, 1038, 1047, and 10542
6 row harvester, (38" rows), second pick <sup>b</sup>	\$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

<sup>a</sup> Machinery costs per acre assume that each machine is fully utilized on the farm.

<sup>b</sup>This harvest cost includes the direct and fixed costs of the cotton picker only.

The authors gratefully acknowledge the contributions of Ken Smith, Glenn Studebaker, and Gus Lorenz in the construction of the 2007 cotton budgets. For additional information on cotton economics contact Rob Hogan at the Northeast Research and Extension Center 870-526-2199 extension 108.

View and print all of the Arkansas crop budgets at [http://www.uaex.edu/depts/ag\\_economics/crop\\_budgets.htm](http://www.uaex.edu/depts/ag_economics/crop_budgets.htm)