

Estimating 2008 Costs of Production, Cotton
Northeast Boll Weevil Eradication Zone, Non-Irrigated, 8 Row,
Stale Seedbed, Roundup Ready
AG-1140 12-07

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HARVEST AIDS					
First Pick	pt	3.15	4.0000	12.60	_____
Dropp SC	oz	2.01	1.6000	3.23	_____
FERTILIZERS					
0-60-120-10-1	acre	72.28	1.0000	72.29	_____
Urea, Solid (46% N)	lb	0.20	174.0000	34.80	_____
HERBICIDES					
Glyphosate Plus	pt	1.88	5.2000	9.78	_____
Clarity	pt	8.43	0.5000	4.22	_____
Gramoxone Extra	pt	3.75	0.2500	0.94	_____
Dual Magnum	pt	12.14	1.0000	12.14	_____
Caparol 4L	pt	3.64	0.1500	0.55	_____
Direx 80 DF	lb	2.27	0.3300	0.75	_____
INSECTICIDES					
Centric 40WG	oz	4.16	2.0000	8.32	_____
Trimax	oz	3.79	1.5000	5.69	_____
Orthene 90S	lb	6.28	1.0000	6.28	_____
Bidrin 8L	oz	0.75	16.0000	12.13	_____
Pyrethroid	ac	2.60	2.0000	5.21	_____
CROP SEED					
Cottonseed RR	thous	0.48	48.0000	23.04	_____
Cruiser Seed Trmnt	thous	0.18	48.0000	8.88	_____
TECHNOLOGY FEE					
RR Cotton Tech Fee N	thous	0.61	48.0000	29.42	_____
Eradication Fee DZ	ac	14.00	1.0000	14.00	_____
CUSTOM HIRE					
Cstm Ap Air - 3 gal	appl	4.00	1.0000	4.00	_____
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	9.45	1.2652	11.95	_____
Self-Propelled	hour	9.45	0.3150	2.99	_____
HAND LABOR					
Implements	hour	8.19	0.3720	3.04	_____
Self-Propelled	hour	8.19	0.2864	2.34	_____
DIESEL FUEL					
Tractors	gal	2.33	12.2320	28.49	_____
Self-Propelled	gal	2.33	3.7079	8.63	_____
REPAIR & MAINTENANCE					
Implements	acre	8.26	1.0000	8.26	_____
Tractors	acre	4.73	1.0000	4.73	_____
Self-Propelled	acre	10.23	1.0000	10.23	_____
INTEREST ON OP. CAP.	acre	16.73	1.0000	16.73	_____
TOTAL DIRECT EXPENSES				419.66	_____
FIXED EXPENSES					
Implements	acre	19.38	1.0000	19.38	_____
Tractors	acre	36.05	1.0000	36.05	_____
Self-Propelled	acre	49.14	1.0000	49.14	_____
TOTAL FIXED EXPENSES				104.57	_____
TOTAL SPECIFIED EXPENSES				524.23	_____

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Table 2. Estimated resource use and costs for field operations, per acre AG-1140 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	Nov	1.74	1.93	1.39	1.03	0.08	0.78				6.87
TerraTill Bed w/roll	4R-38	MFWD 225	0.160	1.00	Nov	5.05	5.42	0.68	1.50	0.16	1.52				14.17
Fert Appl-T&O	8R-27	MFWD 170	0.050	1.00	Nov	1.20	1.35			0.05	0.47				3.02
0-60-120-10-1	acre											1.0000	72.28	72.29	72.29
Field Cultivate Fld	32'	MFWD 190	0.046	1.00	Nov	1.23	1.33	0.33	1.72	0.04	0.44				5.05
Disk Bed (Hipper)Fld	8R-38	MFWD 190	0.074	1.00	Nov	1.97	2.11	0.30	0.98	0.07	0.70				6.06
Sprayer(300-450Gal)	60'		0.017	1.00	Feb	0.30	0.58			0.02	0.24				1.12
Glyphosate Plus	pt											1.5000	1.88	2.82	2.82
Clarity	pt											0.5000	8.43	4.22	4.22
Sprayer(300-450Gal)	60'		0.017	0.25	Apr	0.08	0.15			0.00	0.06				0.29
Gramoxone Extra	pt											0.2500	3.75	0.94	0.94
Disk Bed (Hipper)Fld	8R-38	MFWD 190	0.074	1.00	Apr	1.97	2.11	0.30	0.98	0.07	0.70				6.06
Row Cond (Harrow)Rdg	26'	MFWD 190	0.057	1.00	Apr	1.52	1.63	0.14	0.71	0.05	0.54				4.54
Plant - Folding	8R-38	MFWD 170	0.074	1.00	May	1.78	2.01	0.95	2.26	0.14	1.31				8.31
Cottonseed RR	thous											48.0000	0.48	23.04	23.04
RR Cotton Tech Fee N	thous											48.0000	0.61	29.42	29.42
Cruiser Seed Trmnt	thous											48.0000	0.18	8.88	8.88
Fert Appl-T&O	8R-27	MFWD 170	0.050	1.00	May	1.20	1.35			0.05	0.47				3.02
Urea, Solid (46% N)	lb											174.0000	0.20	34.80	34.80
Sprayer(300-450Gal)	60'		0.017	1.00	May	0.30	0.58			0.02	0.24				1.12
Glyphosate Plus	pt											1.0000	1.88	1.88	1.88
Sprayer(300-450Gal)	60'		0.017	1.00	Jun	0.30	0.58			0.02	0.24				1.12
Glyphosate Plus	pt											1.5000	1.88	2.82	2.82
Dual Magnum	pt											1.0000	12.14	12.14	12.14
Spray (Band)	27' Fold	MFWD 170	0.062	0.20	Jun	0.30	0.34	0.03	0.05	0.01	0.17				0.89
Caparol 4L	pt											0.1500	3.64	0.55	0.55
Glyphosate Plus	pt											0.2000	1.88	0.38	0.38
Cstm Ap Air - 3 gal	appl			1.00	Jun							1.0000	4.00	4.00	4.00
Centric 40WG	oz											2.0000	4.16	8.32	8.32
Spray (Direct/Layby)	8R-38	MFWD 170	0.066	1.00	Jun	1.60	1.81	0.32	0.48	0.10	0.90				5.11
Direx 80 DF	lb											0.3300	2.27	0.75	0.75
Glyphosate Plus	pt											1.0000	1.88	1.88	1.88
Cstm Ap Air - 5 gal	appl			1.00	Jul							1.0000	5.50	5.50	5.50
Trimax	oz											1.5000	3.79	5.69	5.69
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	6.28	3.14	3.14
Cstm Ap Air - 5 gal	appl			1.00	Jul							1.0000	5.50	5.50	5.50
Bidrin 8L	oz											8.0000	0.75	6.06	6.06
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	6.28	3.14	3.14
Cstm Ap Air - 5 gal	appl			1.00	Jul							1.0000	5.50	5.50	5.50
Pyrethroid	ac											1.0000	2.60	2.61	2.61
Cstm Ap Air - 5 gal	appl			1.00	Aug							1.0000	5.50	5.50	5.50
Bidrin 8L	oz											8.0000	0.75	6.06	6.06
Cstm Ap Air - 5 gal	appl			1.00	Aug							1.0000	5.50	5.50	5.50
Pyrethroid	ac											1.0000	2.60	2.61	2.61
Cstm Ap Air - 5 gal	appl			1.00	Sep							1.0000	5.50	5.50	5.50

First Pick	pt										4.0000	3.15	12.60	12.60
Drop SC	oz										1.6000	2.01	3.23	3.23
Boll Buggy-1st pick	4R-38(325)MFWD 190	0.257	1.00	Oct	6.83	7.33	1.67	4.23	0.25	2.44				22.50
Cotton Picker-1st-BB	4R-38(255)	0.257			17.88	47.25			0.51	4.55				69.68
Module Builder-1st	4R-38(255)MFWD 190	0.257	1.00	Oct	6.83	7.33	2.15	5.44	0.51	4.55				26.30
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TOTALS					52.08	85.19	8.26	19.38	2.23	20.32			322.27	507.50
INTEREST ON OPERATING CAPITAL														16.73
UNALLOCATED LABOR														0.00
TOTAL SPECIFIED COST														524.23

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.

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

Production Practice	Cost per acre ^a	Southeast/Central Eradication Zone	Ridge Eradication Zone	Northeast Eradication Zone
Bud worm/boll worm control				
Lannate 2.4 SL (1 gal./ 4 acres)	\$19.96	None	None	None
Larvin 3.2 (1 gal./ 3.5 acres)	\$24.00	None	None	None
Tracer (1 gal./ 64 acres)	\$18.52	None	None	None
Tracer (1/2 rate) + Pyretheroid	\$14.80	None	None	None
Red spider mite control				
Kelthane (1.25 qts)	\$17.74	None	None	None
Zeal (0.83 oz)	\$20.86	None	None	None
Zephyr (5 oz)	\$27.52	None	None	None
Herbicide applications				
Staple LX banded application (.75 oz)	\$8.15	None	None	None
Prowl 3.3 EC, incorporated (1.2 pts)	\$9.30	None	None	None
Treflan HFP, incorporated (.75 pts)	\$9.74	None	None	None
Treflan HFP, incorporated (1.5 pts)	\$11.64	None	None	None
Row cultivate plus directed spray	\$6.78 + material	None	None	None
Defoliation for Irrigated Cotton	\$25.97	AG-1120 – 1129	AG-1131 – 1139	AG-1141 – 1149
Defoliation for Dryland Cotton	\$21.62	AG-1119	AG-1130	AG-1140
Cruiser seed treatment	\$9.25	AG-1119 – 1122; 1124 – 1128	AG-1130 – 1132; 1134 – 1138	AG-1140 – 1145; 1147 – 1179
Gaicho seed treatment	\$9.50	AG-1123	AG-1133	None
Avicta Complete Pak seed treatment	\$23.64	None	None	None
Aeris Complete Pak seed treatment	\$17.79	None	None	None
Harvest				
4 row harvester, first pick ^b	\$69.83	AG-1119, 1120, 1121, 1122	AG-1130	AG-1140, 1148
4 row harvester, second pick ^b	\$59.16	None	None	None
6 row harvester, (38" rows), first pick ^b	\$69.67	AG-1123 – 1129	AG-1131 – 1139	AG-1141 – 1147; 1149
6 row harvester, (38" rows), second pick ^b	\$59.02	None	None	None
Module Builder	\$26.39	All	All	All
Irrigation				
Furrow (3 ac. in) – additional \$24.94/ac fixed cost	\$8.42 per application	AG-1122 – 1123; 1125 – 1129	AG-1132 – 1137	AG-1141 – 1144
Center pivot (1 ac. in) – additional \$68.20/ac fixed cost	\$6.30 per application	AG-1120, 1121, 1124	AG-1131, 1138, 1139	AG-1145 – 1149
Furrow, stationary relift (3 ac. in) – additional \$24.42/ac fixed cost	\$5.03 per application	None	None	None

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

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



**Estimating 2008 Costs of Production, Cotton
 Northeast Boll Weevil Eradication Zone, Furrow, 12 Row,
 Stale Seedbed, Liberty Link
 AG-1141 12-07**

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HARVEST AIDS					
Finish 6	pt	7.20	1.6631	11.99	_____
Dropp SC	oz	2.01	0.1600	0.32	_____
Def 6	pt	5.75	0.3331	1.92	_____
FERTILIZERS					
0-60-120-10-1	acre	72.28	1.0000	72.29	_____
Urea, Solid (46% N)	lb	0.20	218.0000	43.60	_____
HERBICIDES					
Glyphosate Plus	pt	1.88	1.5000	2.82	_____
Clarity	pt	8.43	0.5000	4.22	_____
Gramoxone Extra	pt	3.75	0.2500	0.94	_____
Ignite 280 SL	pt	6.00	4.3125	25.88	_____
Direx 80 DF	lb	2.27	0.3300	0.75	_____
Valor SX	lb	65.37	0.1250	8.17	_____
INSECTICIDES					
Centric 40WG	oz	4.16	2.0000	8.32	_____
Trimax	oz	3.79	1.5000	5.69	_____
Orthene 90S	lb	6.28	1.0000	6.28	_____
Bidrin 8L	oz	0.75	16.0000	12.13	_____
Pyrethroid	ac	2.60	2.0000	5.21	_____
IRRIGATION SUPPLIES					
IrrPipe+lay+pickup	acre	10.30	1.0000	10.30	_____
CROP SEED					
Cottonseed LL	thous	0.47	48.0000	22.70	_____
Cruiser Seed Trmnt	thous	0.18	48.0000	8.88	_____
Dynasty - Seed Trt	thous	0.13	48.0000	6.38	_____
TECHNOLOGY FEE					
LL Tech Fee N	thous	0.18	48.0000	8.64	_____
Eradication Fee DZ	ac	14.00	1.0000	14.00	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.13	26.0000	3.41	_____
CUSTOM HIRE					
Cstm Ap Air - 3 gal	appl	4.00	1.0000	4.00	_____
Cstm Ap Air - 5 gal	appl	5.50	9.0000	49.50	_____
Insect Scouting	acre	10.00	1.0000	10.00	_____
OPERATOR LABOR					
Tractors	hour	9.45	0.8174	7.72	_____
Self-Propelled	hour	9.45	0.2104	1.99	_____
IRRIGATION LABOR					
Furrow Irr.	hour	8.19	0.3017	2.48	_____
HAND LABOR					
Implements	hour	8.19	0.2441	2.00	_____
Self-Propelled	hour	8.19	0.1914	1.57	_____
DIESEL FUEL					
Tractors	gal	2.33	8.1322	18.95	_____
Self-Propelled	gal	2.33	3.4973	8.14	_____
Furrow Irr.	gal	2.33	12.0000	27.96	_____
REPAIR & MAINTENANCE					
Implements	acre	6.26	1.0000	6.26	_____
Tractors	acre	3.11	1.0000	3.11	_____
Self-Propelled	acre	10.71	1.0000	10.71	_____
Furrow Irr.	ac-in	0.17	12.0000	2.12	_____
INTEREST ON OP. CAP.	acre	17.58	1.0000	17.58	_____
TOTAL DIRECT EXPENSES				458.93	_____
FIXED EXPENSES					
Implements	acre	13.31	1.0000	13.31	_____
Tractors	acre	23.79	1.0000	23.79	_____
Self-Propelled	acre	51.77	1.0000	51.77	_____
Furrow Irr.	each	2993.11	0.0083	24.94	_____
TOTAL FIXED EXPENSES				113.81	_____
TOTAL SPECIFIED EXPENSES				572.74	_____

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Table 2. Estimated resource use and costs for field operations, per acre AG-1141 NE, Furrow, 12R, SS, LL, 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	Nov	1.74	1.93	1.39	1.03	0.08	0.78				6.87
TerraTill Bed w/roll	6R-38	MFWD 225	0.107	1.00	Nov	3.37	3.62	0.59	1.30	0.10	1.02				9.90
Fert Appl T&O	12-R 40	MFWD 190	0.033	1.00	Nov	0.88	0.95			0.03	0.31				2.14
0-60-120-10-1	acre											1.0000	72.28	72.29	72.29
Disk Bed (Hipper)	12R-38	MFWD 225	0.049	1.00	Nov	1.55	1.66	0.30	0.98	0.04	0.47				4.96
Sprayer(600-825Gal)	90'		0.011	1.00	Feb	0.39	0.88			0.01	0.16				1.43
Glyphosate Plus	pt											1.5000	1.88	2.82	2.82
Clarity	pt											0.5000	8.43	4.22	4.22
Sprayer(600-825Gal)	90'		0.011	0.25	Apr	0.10	0.22			0.00	0.04				0.36
Gramoxone Extra	pt											0.2500	3.75	0.94	0.94
Row Cond (Harrow)Fld	38'	MFWD 225	0.039	1.00	Apr	1.23	1.32	0.16	0.85	0.03	0.37				3.93
Plant - Folding	12R-38	MFWD 190	0.049	1.00	May	1.32	1.41	0.90	2.14	0.09	0.88				6.65
Cottonseed LL	thous											48.0000	0.47	22.70	22.70
LL Tech Fee N	thous											48.0000	0.18	8.64	8.64
Cruiser Seed Trmnt	thous											48.0000	0.18	8.88	8.88
Dynasty - Seed Trt	thous											48.0000	0.13	6.38	6.38
Fert Appl T&O	12-R 40	MFWD 190	0.033	1.00	May	0.88	0.95			0.03	0.31				2.14
Urea, Solid (46% N)	lb											109.0000	0.20	21.80	21.80
Sprayer(600-825Gal)	90'		0.011	1.00	May	0.39	0.88			0.01	0.16				1.43
Ignite 280 SL	pt											1.4375	6.00	8.63	8.63
Sprayer(600-825Gal)	90'		0.011	1.00	May	0.39	0.88			0.01	0.16				1.43
Ignite 280 SL	pt											1.4375	6.00	8.63	8.63
Fert Appl T&O	12-R 40	MFWD 190	0.033	1.00	Jun	0.88	0.95			0.03	0.31				2.14
Urea, Solid (46% N)	lb											109.0000	0.20	21.80	21.80
Spray (Direct/Layby)	12R-38	MFWD 170	0.044	1.00	Jun	1.07	1.20	0.37	0.54	0.06	0.60				3.78
Direx 80 DF	lb											0.3300	2.27	0.75	0.75
Ignite 280 SL	pt											1.4375	6.00	8.63	8.63
Valor SX	lb											0.1250	65.37	8.17	8.17
Cstm Ap Air - 3 gal	appl			1.00	Jun							1.0000	4.00	4.00	4.00
Centric 40WG	oz											2.0000	4.16	8.32	8.32
Mepiquat Chloride	oz											4.0000	0.13	0.52	0.52
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	3.79	5.69	5.69
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	6.28	3.14	3.14
Cstm Ap Air - 5 gal	appl			1.00	Jul							1.0000	5.50	5.50	5.50
Bidrin 8L	oz											8.0000	0.75	6.06	6.06
Mepiquat Chloride	oz											10.0000	0.13	1.31	1.31
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	6.28	3.14	3.14
Cstm Ap Air - 5 gal	appl			1.00	Jul							1.0000	5.50	5.50	5.50
Pyrethroid	ac											1.0000	2.60	2.61	2.61
Mepiquat Chloride	oz											12.0000	0.13	1.57	1.57
Cstm Ap Air - 5 gal	appl			1.00	Aug							1.0000	5.50	5.50	5.50
Bidrin 8L	oz											8.0000	0.75	6.06	6.06
Cstm Ap Air - 5 gal	appl			1.00	Aug							1.0000	5.50	5.50	5.50

Pyrethroid	ac										1.0000	2.60	2.61	2.61
Cstm Ap Air - 5 gal	appl	1.00	Sep								1.0000	5.50	5.50	5.50
Finish 6	pt										0.3331	7.20	2.40	2.40
Dropp SC	oz										0.1600	2.01	0.32	0.32
Cstm Ap Air - 5 gal	appl	1.00	Sep								1.0000	5.50	5.50	5.50
Finish 6	pt										1.3300	7.20	9.59	9.59
Def 6	pt										0.3331	5.75	1.92	1.92
Boll Buggy-1st pick	6R-38(325)MFWD 190	0.172	1.00	Oct	4.57	4.90	1.12	2.83	0.17	1.63				15.05
Cotton Picker-1st-BB	6R-38(350)	0.172			17.58	48.91			0.34	3.04				69.53
Module Builder-1st	6R-38(325)MFWD 190	0.172	1.00	Oct	4.57	4.90	1.43	3.64	0.34	3.04				17.58
Furrow Irr.	each		1.00	Jun				24.94			0.0083			24.94
Application 1	ac-in							7.52	0.07	0.62	3.0000			8.14
Application 2	ac-in							7.52	0.07	0.62	3.0000			8.14
Application 3	ac-in							7.52	0.07	0.62	3.0000			8.14
Application 4	ac-in							7.52	0.07	0.62	3.0000			8.14
TOTALS					40.91	75.56	36.34	38.25	1.76	15.76			348.34	555.16
INTEREST ON OPERATING CAPITAL														17.58
UNALLOCATED LABOR														0.00
TOTAL SPECIFIED COST														572.74

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AG-1141 12-07

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

Production Practice	Cost per acre^a	Southeast/Central Eradication Zone	Ridge Eradication Zone	Northeast Eradication Zone
Bud worm/boll worm control				
Lannate 2.4 SL (1 gal./ 4 acres)	\$19.96	None	None	None
Larvin 3.2 (1 gal./ 3.5 acres)	\$24.00	None	None	None
Tracer (1 gal./ 64 acres)	\$18.52	None	None	None
Tracer (1/2 rate) + Pyretheroid	\$14.80	None	None	None
Red spider mite control				
Kelthane (1.25 qts)	\$17.74	None	None	None
Zeal (0.83 oz)	\$20.86	None	None	None
Zephyr (5 oz)	\$27.52	None	None	None
Herbicide applications				
Staple LX banded application (.75 oz)	\$8.15	None	None	None
Prowl 3.3 EC, incorporated (1.2 pts)	\$9.30	None	None	None
Treflan HFP, incorporated (.75 pts)	\$9.74	None	None	None
Treflan HFP, incorporated (1.5 pts)	\$11.64	None	None	None
Row cultivate plus directed spray	\$6.78 + material	None	None	None
Defoliation for Irrigated Cotton	\$25.97	AG-1120 – 1129	AG-1131 – 1139	AG-1141 – 1149
Defoliation for Dryland Cotton	\$21.62	AG-1119	AG-1130	AG-1140
Cruiser seed treatment	\$9.25	AG-1119 – 1122; 1124 – 1128	AG-1130 – 1132; 1134 – 1138	AG-1140 – 1145; 1147 – 1179
Gaicho seed treatment	\$9.50	AG-1123	AG-1133	None
Avicta Complete Pak seed treatment	\$23.64	None	None	None
Aeris Complete Pak seed treatment	\$17.79	None	None	None
Harvest				
4 row harvester, first pick ^b	\$69.83	AG-1119, 1120, 1121, 1122	AG-1130	AG-1140, 1148
4 row harvester, second pick ^b	\$59.16	None	None	None
6 row harvester, (38" rows), first pick ^b	\$69.67	AG-1123 – 1129	AG-1131 – 1139	AG-1141 – 1147; 1149
6 row harvester, (38" rows), second pick ^b	\$59.02	None	None	None
Module Builder	\$26.39	All	All	All
Irrigation				
Furrow (3 ac. in) – additional \$24.94/ac fixed cost	\$8.42 per application	AG-1122 – 1123; 1125 – 1129	AG-1132 – 1137	AG-1141 – 1144
Center pivot (1 ac. in) – additional \$68.20/ac fixed cost	\$6.30 per application	AG-1120, 1121, 1124	AG-1131, 1138, 1139	AG-1145 – 1149
Furrow, stationary relift (3 ac. in) – additional \$24.42/ac fixed cost	\$5.03 per application	None	None	None

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

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



UNIVERSITY OF ARKANSAS
DIVISION OF AGRICULTURE

Cooperative Extension Service

Estimating 2008 Costs of Production, Cotton
Northeast Boll Weevil Eradication Zone, Furrow, 12 Row,
Stale Seedbed, BGII/LL
AG-1142 12-07

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HARVEST AIDS					
Aim	oz	5.70	1.0000	5.70	_____
Dropp SC	oz	2.01	1.6000	3.23	_____
Finish 6	pt	7.20	0.3300	2.38	_____
Ethephon	pint	2.93	1.6000	4.70	_____
FERTILIZERS					
0-60-120-10-1	acre	72.28	1.0000	72.29	_____
Urea, Solid (46% N)	lb	0.20	218.0000	43.60	_____
HERBICIDES					
Glyphosate Plus	pt	1.88	1.5000	2.82	_____
Clarity	pt	8.43	0.5000	4.22	_____
Gramoxone Extra	pt	3.75	0.2500	0.94	_____
Ignite 280 SL	pt	6.00	4.3125	25.88	_____
Direx 80 DF	lb	2.27	0.3300	0.75	_____
Valor SX	lb	65.37	0.1250	8.17	_____
INSECTICIDES					
Centric 40WG	oz	4.16	2.0000	8.32	_____
Trimax	oz	3.79	1.5000	5.69	_____
Orthene 90S	lb	6.28	1.0000	6.28	_____
Bidrin 8L	oz	0.75	16.0000	12.13	_____
Pyrethroid	ac	2.60	2.0000	5.21	_____
IRRIGATION SUPPLIES					
IrrPipe+lay+pickup	acre	10.30	1.0000	10.30	_____
CROP SEED					
Cottonseed BGII/LL	thous	0.45	48.0000	21.60	_____
Cruiser Seed Trmnt	thous	0.18	48.0000	8.88	_____
Dynasty - Seed Trt	thous	0.13	48.0000	6.38	_____
TECHNOLOGY FEE					
BGII/LL Tech N	thous	0.83	48.0000	39.84	_____
Eradication Fee DZ	ac	14.00	1.0000	14.00	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.13	26.0000	3.41	_____
ADJUVANTS					
Surfactant (80-20)	pt	1.27	0.4000	0.51	_____
CUSTOM HIRE					
Cstm Ap Air - 3 gal	appl	4.00	1.0000	4.00	_____
Cstm Ap Air - 5 gal	appl	5.50	9.0000	49.50	_____
Insect Scouting	acre	10.00	1.0000	10.00	_____
OPERATOR LABOR					
Tractors	hour	9.45	0.8174	7.72	_____
Self-Propelled	hour	9.45	0.2104	1.99	_____
IRRIGATION LABOR					
Furrow Irr.	hour	8.19	0.3017	2.48	_____
HAND LABOR					
Implements	hour	8.19	0.2441	2.00	_____
Self-Propelled	hour	8.19	0.1914	1.57	_____
DIESEL FUEL					
Tractors	gal	2.33	8.1322	18.95	_____
Self-Propelled	gal	2.33	3.4973	8.14	_____
Furrow Irr.	gal	2.33	12.0000	27.96	_____
REPAIR & MAINTENANCE					
Implements	acre	6.26	1.0000	6.26	_____
Tractors	acre	3.11	1.0000	3.11	_____
Self-Propelled	acre	10.71	1.0000	10.71	_____
Furrow Irr.	ac-in	0.17	12.0000	2.12	_____
INTEREST ON OP. CAP.	acre	18.83	1.0000	18.83	_____
TOTAL DIRECT EXPENSES				492.56	_____
FIXED EXPENSES					
Implements	acre	13.31	1.0000	13.31	_____
Tractors	acre	23.79	1.0000	23.79	_____
Self-Propelled	acre	51.77	1.0000	51.77	_____
Furrow Irr.	each	2993.11	0.0083	24.94	_____
TOTAL FIXED EXPENSES				113.81	_____

TOTAL SPECIFIED EXPENSES				606.37	_____

Pam Guiling,
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Economist
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Assistant Professor
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Table 2. Estimated resource use and costs for field operations, per acre AG-1142 NE, Furrow, 12R, SS, BGII/LL, 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	Nov	1.74	1.93	1.39	1.03	0.08	0.78				6.87
TerraTill Bed w/roll	6R-38	MFWD 225	0.107	1.00	Nov	3.37	3.62	0.59	1.30	0.10	1.02				9.90
Fert Appl T&O	12-R 40	MFWD 190	0.033	1.00	Nov	0.88	0.95			0.03	0.31				2.14
0-60-120-10-1	acre											1.0000	72.28	72.29	72.29
Disk Bed (Hipper)	12R-38	MFWD 225	0.049	1.00	Nov	1.55	1.66	0.30	0.98	0.04	0.47				4.96
Sprayer(600-825Gal)	90'		0.011	1.00	Feb	0.39	0.88			0.01	0.16				1.43
Glyphosate Plus	pt											1.5000	1.88	2.82	2.82
Clarity	pt											0.5000	8.43	4.22	4.22
Sprayer(600-825Gal)	90'		0.011	0.25	Apr	0.10	0.22			0.00	0.04				0.36
Gramoxone Extra	pt											0.2500	3.75	0.94	0.94
Row Cond (Harrow)Fld	38'	MFWD 225	0.039	1.00	Apr	1.23	1.32	0.16	0.85	0.03	0.37				3.93
Plant - Folding	12R-38	MFWD 190	0.049	1.00	May	1.32	1.41	0.90	2.14	0.09	0.88				6.65
Cottonseed BGII/LL	thous											48.0000	0.45	21.60	21.60
BGII/LL Tech N	thous											48.0000	0.83	39.84	39.84
Cruiser Seed Trmnt	thous											48.0000	0.18	8.88	8.88
Dynasty - Seed Trt	thous											48.0000	0.13	6.38	6.38
Fert Appl T&O	12-R 40	MFWD 190	0.033	1.00	May	0.88	0.95			0.03	0.31				2.14
Urea, Solid (46% N)	lb											109.0000	0.20	21.80	21.80
Sprayer(600-825Gal)	90'		0.011	1.00	May	0.39	0.88			0.01	0.16				1.43
Ignite 280 SL	pt											1.4375	6.00	8.63	8.63
Sprayer(600-825Gal)	90'		0.011	1.00	May	0.39	0.88			0.01	0.16				1.43
Ignite 280 SL	pt											1.4375	6.00	8.63	8.63
Fert Appl T&O	12-R 40	MFWD 190	0.033	1.00	Jun	0.88	0.95			0.03	0.31				2.14
Urea, Solid (46% N)	lb											109.0000	0.20	21.80	21.80
Spray (Direct/Layby)	12R-38	MFWD 170	0.044	1.00	Jun	1.07	1.20	0.37	0.54	0.06	0.60				3.78
Direx 80 DF	lb											0.3300	2.27	0.75	0.75
Ignite 280 SL	pt											1.4375	6.00	8.63	8.63
Valor SX	lb											0.1250	65.37	8.17	8.17
Cstm Ap Air - 3 gal	appl			1.00	Jun							1.0000	4.00	4.00	4.00
Centric 40WG	oz											2.0000	4.16	8.32	8.32
Mepiquat Chloride	oz											4.0000	0.13	0.52	0.52
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	3.79	5.69	5.69
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	6.28	3.14	3.14
Cstm Ap Air - 5 gal	appl			1.00	Jul							1.0000	5.50	5.50	5.50
Bidrin 8L	oz											8.0000	0.75	6.06	6.06
Mepiquat Chloride	oz											10.0000	0.13	1.31	1.31
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	6.28	3.14	3.14
Cstm Ap Air - 5 gal	appl			1.00	Jul							1.0000	5.50	5.50	5.50
Pyrethroid	ac											1.0000	2.60	2.61	2.61
Mepiquat Chloride	oz											12.0000	0.13	1.57	1.57
Cstm Ap Air - 5 gal	appl			1.00	Aug							1.0000	5.50	5.50	5.50
Bidrin 8L	oz											8.0000	0.75	6.06	6.06
Cstm Ap Air - 5 gal	appl			1.00	Aug							1.0000	5.50	5.50	5.50

Pyrethroid	ac										1.0000	2.60	2.61	2.61
Cstm Ap Air - 5 gal	appl		1.00	Sep							1.0000	5.50	5.50	5.50
Aim	oz										0.3300	5.70	1.88	1.88
Dropp SC	oz										1.6000	2.01	3.23	3.23
Finish 6	pt										0.3300	7.20	2.38	2.38
Surfactant (80-20)	pt										0.2000	1.27	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	5.70	3.82	3.82
Ethephon	pint										1.6000	2.93	4.70	4.70
Surfactant (80-20)	pt										0.2000	1.27	0.25	0.25
Boll Buggy-1st pick	6R-38(325)MFWD 190	0.172	1.00	Oct	4.57	4.90	1.12	2.83	0.17	1.63				15.05
Cotton Picker-1st-BB	6R-38(350)	0.172			17.58	48.91			0.34	3.04				69.53
Module Builder-1st	6R-38(325)MFWD 190	0.172	1.00	Oct	4.57	4.90	1.43	3.64	0.34	3.04				17.58
Furrow Irr.	each		1.00	Jun				24.94			0.0083			24.94
Application 1	ac-in						7.52		0.07	0.62	3.0000			8.14
Application 2	ac-in						7.52		0.07	0.62	3.0000			8.14
Application 3	ac-in						7.52		0.07	0.62	3.0000			8.14
Application 4	ac-in						7.52		0.07	0.62	3.0000			8.14
					-----						-----			
TOTALS					40.91	75.56	36.34	38.25	1.76	15.76			380.72	587.54
INTEREST ON OPERATING CAPITAL														18.83
UNALLOCATED LABOR														0.00
TOTAL SPECIFIED COST														606.37

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

Production Practice	Cost per acre ^a	Southeast/Central Eradication Zone	Ridge Eradication Zone	Northeast Eradication Zone
Bud worm/boll worm control				
Lannate 2.4 SL (1 gal./ 4 acres)	\$19.96	None	None	None
Larvin 3.2 (1 gal./ 3.5 acres)	\$24.00	None	None	None
Tracer (1 gal./ 64 acres)	\$18.52	None	None	None
Tracer (1/2 rate) + Pyretheroid	\$14.80	None	None	None
Red spider mite control				
Kelthane (1.25 qts)	\$17.74	None	None	None
Zeal (0.83 oz)	\$20.86	None	None	None
Zephyr (5 oz)	\$27.52	None	None	None
Herbicide applications				
Staple LX banded application (.75 oz)	\$8.15	None	None	None
Prowl 3.3 EC, incorporated (1.2 pts)	\$9.30	None	None	None
Treflan HFP, incorporated (.75 pts)	\$9.74	None	None	None
Treflan HFP, incorporated (1.5 pts)	\$11.64	None	None	None
Row cultivate plus directed spray	\$6.78 + material	None	None	None
Defoliation for Irrigated Cotton	\$25.97	AG-1120 – 1129	AG-1131 – 1139	AG-1141 – 1149
Defoliation for Dryland Cotton	\$21.62	AG-1119	AG-1130	AG-1140
Cruiser seed treatment	\$9.25	AG-1119 – 1122; 1124 – 1128	AG-1130 – 1132; 1134 – 1138	AG-1140 – 1145; 1147 – 1179
Gaicho seed treatment	\$9.50	AG-1123	AG-1133	None
Avicta Complete Pak seed treatment	\$23.64	None	None	None
Aeris Complete Pak seed treatment	\$17.79	None	None	None
Harvest				
4 row harvester, first pick ^b	\$69.83	AG-1119, 1120, 1121, 1122	AG-1130	AG-1140, 1148
4 row harvester, second pick ^b	\$59.16	None	None	None
6 row harvester, (38" rows), first pick ^b	\$69.67	AG-1123 – 1129	AG-1131 – 1139	AG-1141 – 1147; 1149
6 row harvester, (38" rows), second pick ^b	\$59.02	None	None	None
Module Builder	\$26.39	All	All	All
Irrigation				
Furrow (3 ac. in) – additional \$24.94/ac fixed cost	\$8.42 per application	AG-1122 – 1123; 1125 – 1129	AG-1132 – 1137	AG-1141 – 1144
Center pivot (1 ac. in) – additional \$68.20/ac fixed cost	\$6.30 per application	AG-1120, 1121, 1124	AG-1131, 1138, 1139	AG-1145 – 1149
Furrow, stationary relift (3 ac. in) – additional \$24.42/ac fixed cost	\$5.03 per application	None	None	None

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

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



**Estimating 2008 Costs of Production, Cotton
Northeast Boll Weevil Eradication Zone, Furrow, 12 Row,
Stale Seedbed, WS/RRFlex
AG-1143 12-07**

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HARVEST AIDS					
Aim	oz	5.70	1.0000	5.70	_____
Dropp SC	oz	2.01	1.6000	3.23	_____
Finish 6	pt	7.20	0.3300	2.38	_____
Ethephon	pint	2.93	1.6000	4.70	_____
FERTILIZERS					
0-60-120-10-1	acre	72.28	1.0000	72.29	_____
Urea, Solid (46% N)	lb	0.20	218.0000	43.60	_____
HERBICIDES					
Glyphosate Plus	pt	1.88	6.1000	11.47	_____
Clarity	pt	8.43	0.5000	4.22	_____
Gramoxone Extra	pt	3.75	0.2500	0.94	_____
Dual Magnum	pt	12.14	1.0000	12.14	_____
Caparol 4L	pt	3.64	0.7500	2.73	_____
Valor SX	lb	65.37	0.0562	3.68	_____
INSECTICIDES					
Centric 40WG	oz	4.16	2.0000	8.32	_____
Trimax	oz	3.79	1.5000	5.69	_____
Orthene 90S	lb	6.28	1.0000	6.28	_____
Bidrin 8L	oz	0.75	16.0000	12.13	_____
Pyrethroid	ac	2.60	2.0000	5.21	_____
IRRIGATION SUPPLIES					
IrrPipe+lay+pickup	acre	10.30	1.0000	10.30	_____
CROP SEED					
Cottonseed WS/RRFlex	thous	0.45	48.0000	21.84	_____
Cruiser Seed Trmnt	thous	0.18	48.0000	8.88	_____
Dynasty - Seed Trt	thous	0.13	48.0000	6.38	_____
TECHNOLOGY FEE					
WS/RRF Tech N	thous	1.14	48.0000	54.72	_____
Eradication Fee DZ	ac	14.00	1.0000	14.00	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.13	26.0000	3.41	_____
ADJUVANTS					
Surfactant (80-20)	pt	1.27	0.4000	0.51	_____
CUSTOM HIRE					
Cstm Ap Air - 3 gal	appl	4.00	1.0000	4.00	_____
Cstm Ap Air - 5 gal	appl	5.50	9.0000	49.50	_____
Insect Scouting	acre	10.00	1.0000	10.00	_____
OPERATOR LABOR					
Tractors	hour	9.45	0.8428	7.96	_____
Self-Propelled	hour	9.45	0.2104	1.99	_____
IRRIGATION LABOR					
Furrow Irr.	hour	8.19	0.3017	2.48	_____
HAND LABOR					
Implements	hour	8.19	0.2568	2.10	_____
Self-Propelled	hour	8.19	0.1914	1.57	_____
DIESEL FUEL					
Tractors	gal	2.33	8.3543	19.47	_____
Self-Propelled	gal	2.33	3.4973	8.14	_____
Furrow Irr.	gal	2.33	12.0000	27.96	_____
REPAIR & MAINTENANCE					
Implements	acre	6.34	1.0000	6.34	_____
Tractors	acre	3.20	1.0000	3.20	_____
Self-Propelled	acre	10.71	1.0000	10.71	_____
Furrow Irr.	ac-in	0.17	12.0000	2.12	_____
INTEREST ON OP. CAP.	acre	19.23	1.0000	19.23	_____
TOTAL DIRECT EXPENSES				501.50	_____
FIXED EXPENSES					
Implements	acre	13.43	1.0000	13.43	_____
Tractors	acre	24.48	1.0000	24.48	_____
Self-Propelled	acre	51.77	1.0000	51.77	_____
Furrow Irr.	each	2993.11	0.0083	24.94	_____
TOTAL FIXED EXPENSES				114.62	_____

TOTAL SPECIFIED EXPENSES				616.12	_____

**Pam Guiling,
Agricultural
Economics Assoc.**

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Economist
- Risk Management**

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Assistant Professor
- Cotton Agronomist**

Table 2. Estimated resource use and costs for field operations, per acre AG-1143 NE, Furrow, 12R, SS, WS/RRFlex, 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	Nov	1.74	1.93	1.39	1.03	0.08	0.78				6.87
TerraTill Bed w/roll	6R-38	MFWD 225	0.107	1.00	Nov	3.37	3.62	0.59	1.30	0.10	1.02				9.90
Fert Appl T&O	12-R 40	MFWD 190	0.033	1.00	Nov	0.88	0.95			0.03	0.31				2.14
0-60-120-10-1	acre											1.0000	72.28	72.29	72.29
Disk Bed (Hipper)	12R-38	MFWD 225	0.049	1.00	Nov	1.55	1.66	0.30	0.98	0.04	0.47				4.96
Sprayer(600-825Gal)	90'		0.011	1.00	Feb	0.39	0.88			0.01	0.16				1.43
Glyphosate Plus	pt											1.5000	1.88	2.82	2.82
Clarity	pt											0.5000	8.43	4.22	4.22
Sprayer(600-825Gal)	90'		0.011	0.25	Apr	0.10	0.22			0.00	0.04				0.36
Gramoxone Extra	pt											0.2500	3.75	0.94	0.94
Row Cond (Harrow)Fld	38'	MFWD 225	0.039	1.00	Apr	1.23	1.32	0.16	0.85	0.03	0.37				3.93
Plant - Folding	12R-38	MFWD 190	0.049	1.00	May	1.32	1.41	0.90	2.14	0.09	0.88				6.65
Cottonseed WS/RRFlex	thous											48.0000	0.45	21.84	21.84
WS/RRF Tech N	thous											48.0000	1.14	54.72	54.72
Cruiser Seed Trmnt	thous											48.0000	0.18	8.88	8.88
Dynasty - Seed Trt	thous											48.0000	0.13	6.38	6.38
Fert Appl T&O	12-R 40	MFWD 190	0.033	1.00	May	0.88	0.95			0.03	0.31				2.14
Urea, Solid (46% N)	lb											109.0000	0.20	21.80	21.80
Sprayer(600-825Gal)	90'		0.011	1.00	May	0.39	0.88			0.01	0.16				1.43
Glyphosate Plus	pt											1.5000	1.88	2.82	2.82
Sprayer(600-825Gal)	90'		0.011	1.00	May	0.39	0.88			0.01	0.16				1.43
Glyphosate Plus	pt											1.5000	1.88	2.82	2.82
Dual Magnum	pt											1.0000	12.14	12.14	12.14
Fert Appl T&O	12-R 40	MFWD 190	0.033	1.00	Jun	0.88	0.95			0.03	0.31				2.14
Urea, Solid (46% N)	lb											109.0000	0.20	21.80	21.80
Spray (Direct/Hood)	12R-38	MFWD 170	0.044	1.00	Jun	1.07	1.20	0.38	0.56	0.06	0.60				3.81
Caparol 4L	pt											0.7500	3.64	2.73	2.73
Glyphosate Plus	pt											1.0000	1.88	1.88	1.88
Cstm Ap Air - 3 gal	appl			1.00	Jun							1.0000	4.00	4.00	4.00
Centric 40WG	oz											2.0000	4.16	8.32	8.32
Mepiquat Chloride	oz											4.0000	0.13	0.52	0.52
Spray (Band)	40' Fold	MFWD 170	0.042	0.60	Jun	0.61	0.69	0.07	0.10	0.03	0.34				1.81
Valor SX	lb											0.0562	65.37	3.68	3.68
Glyphosate Plus	pt											0.6000	1.88	1.13	1.13
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	3.79	5.69	5.69
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	6.28	3.14	3.14
Cstm Ap Air - 5 gal	appl			1.00	Jul							1.0000	5.50	5.50	5.50
Bidrin 8L	oz											8.0000	0.75	6.06	6.06
Mepiquat Chloride	oz											10.0000	0.13	1.31	1.31
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	6.28	3.14	3.14
Cstm Ap Air - 5 gal	appl			1.00	Jul							1.0000	5.50	5.50	5.50
Pyrethroid	ac											1.0000	2.60	2.61	2.61
Mepiquat Chloride	oz											12.0000	0.13	1.57	1.57

Cstm Ap Air - 5 gal	appl		1.00	Aug								1.0000	5.50	5.50	5.50
Bidrin 8L	oz											8.0000	0.75	6.06	6.06
Cstm Ap Air - 5 gal	appl		1.00	Aug								1.0000	5.50	5.50	5.50
Pyrethroid	ac											1.0000	2.60	2.61	2.61
Cstm Ap Air - 5 gal	appl		1.00	Sep								1.0000	5.50	5.50	5.50
Aim	oz											0.3300	5.70	1.88	1.88
Dropp SC	oz											1.6000	2.01	3.23	3.23
Finish 6	pt											0.3300	7.20	2.38	2.38
Surfactant (80-20)	pt											0.2000	1.27	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	5.70	3.82	3.82
Ethephon	pint											1.6000	2.93	4.70	4.70
Surfactant (80-20)	pt											0.2000	1.27	0.25	0.25
Boll Buggy-1st pick	6R-38(325)MFWD 190	0.172	1.00	Oct	4.57	4.90	1.12	2.83	0.17	1.63					15.05
Cotton Picker-1st-BB	6R-38(350)	0.172			17.58	48.91			0.34	3.04					69.53
Module Builder-1st	6R-38(325)MFWD 190	0.172	1.00	Oct	4.57	4.90	1.43	3.64	0.34	3.04					17.58
Furrow Irr.	each		1.00	Jun				24.94				0.0083			24.94
Application 1	ac-in						7.52		0.07	0.62		3.0000			8.14
Application 2	ac-in						7.52		0.07	0.62		3.0000			8.14
Application 3	ac-in						7.52		0.07	0.62		3.0000			8.14
Application 4	ac-in						7.52		0.07	0.62		3.0000			8.14
TOTALS					41.52	76.25	36.42	38.37	1.80	16.10				388.23	596.89
INTEREST ON OPERATING CAPITAL															19.23
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															616.12

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

Production Practice	Cost per acre^a	Southeast/Central Eradication Zone	Ridge Eradication Zone	Northeast Eradication Zone
Bud worm/boll worm control				
Lannate 2.4 SL (1 gal./ 4 acres)	\$19.96	None	None	None
Larvin 3.2 (1 gal./ 3.5 acres)	\$24.00	None	None	None
Tracer (1 gal./ 64 acres)	\$18.52	None	None	None
Tracer (1/2 rate) + Pyretheroid	\$14.80	None	None	None
Red spider mite control				
Kelthane (1.25 qts)	\$17.74	None	None	None
Zeal (0.83 oz)	\$20.86	None	None	None
Zephyr (5 oz)	\$27.52	None	None	None
Herbicide applications				
Staple LX banded application (.75 oz)	\$8.15	None	None	None
Prowl 3.3 EC, incorporated (1.2 pts)	\$9.30	None	None	None
Treflan HFP, incorporated (.75 pts)	\$9.74	None	None	None
Treflan HFP, incorporated (1.5 pts)	\$11.64	None	None	None
Row cultivate plus directed spray	\$6.78 + material	None	None	None
Defoliation for Irrigated Cotton	\$25.97	AG-1120 – 1129	AG-1131 – 1139	AG-1141 – 1149
Defoliation for Dryland Cotton	\$21.62	AG-1119	AG-1130	AG-1140
Cruiser seed treatment	\$9.25	AG-1119 – 1122; 1124 – 1128	AG-1130 – 1132; 1134 – 1138	AG-1140 – 1145; 1147 – 1179
Gaicho seed treatment	\$9.50	AG-1123	AG-1133	None
Avicta Complete Pak seed treatment	\$23.64	None	None	None
Aeris Complete Pak seed treatment	\$17.79	None	None	None
Harvest				
4 row harvester, first pick ^b	\$69.83	AG-1119, 1120, 1121, 1122	AG-1130	AG-1140, 1148
4 row harvester, second pick ^b	\$59.16	None	None	None
6 row harvester, (38" rows), first pick ^b	\$69.67	AG-1123 – 1129	AG-1131 – 1139	AG-1141 – 1147; 1149
6 row harvester, (38" rows), second pick ^b	\$59.02	None	None	None
Module Builder	\$26.39	All	All	All
Irrigation				
Furrow (3 ac. in) – additional \$24.94/ac fixed cost	\$8.42 per application	AG-1122 – 1123; 1125 – 1129	AG-1132 – 1137	AG-1141 – 1144
Center pivot (1 ac. in) – additional \$68.20/ac fixed cost	\$6.30 per application	AG-1120, 1121, 1124	AG-1131, 1138, 1139	AG-1145 – 1149
Furrow, stationary relift (3 ac. in) – additional \$24.42/ac fixed cost	\$5.03 per application	None	None	None

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

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



UNIVERSITY OF ARKANSAS
DIVISION OF AGRICULTURE

Cooperative Extension Service

Estimating 2008 Costs of Production, Cotton
Northeast Boll Weevil Eradication Zone, Furrow, 12 Row,
Stale Seedbed, RRFlex
AG-1144 12-07

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HARVEST AIDS					
Aim	oz	5.70	1.0000	5.70	_____
Dropp SC	oz	2.01	1.6000	3.23	_____
Finish 6	pt	7.20	0.3300	2.38	_____
Ethephon	pint	2.93	1.6000	4.70	_____
FERTILIZERS					
0-60-120-10-1	acre	72.28	1.0000	72.29	_____
Urea, Solid (46% N)	lb	0.20	218.0000	43.60	_____
HERBICIDES					
Glyphosate Plus	pt	1.88	6.1000	11.47	_____
Clarity	pt	8.43	0.5000	4.22	_____
Gramoxone Extra	pt	3.75	0.2500	0.94	_____
Dual Magnum	pt	12.14	1.0000	12.14	_____
Caparol 4L	pt	3.64	0.7500	2.73	_____
Valor SX	lb	65.37	0.0562	3.68	_____
INSECTICIDES					
Centric 40WG	oz	4.16	2.0000	8.32	_____
Trimax	oz	3.79	1.5000	5.69	_____
Orthene 90S	lb	6.28	1.0000	6.28	_____
Bidrin 8L	oz	0.75	16.0000	12.13	_____
Pyrethroid	ac	2.60	2.0000	5.21	_____
IRRIGATION SUPPLIES					
IrrPipe+lay+pickup	acre	10.30	1.0000	10.30	_____
CROP SEED					
Cottonseed RRflex	thous	0.48	48.0000	23.38	_____
Cruiser Seed Trmnt	thous	0.18	48.0000	8.88	_____
Dynasty - Seed Trt	thous	0.13	48.0000	6.38	_____
TECHNOLOGY FEE					
RR Flex Tech Fee N	thous	0.78	48.0000	37.44	_____
Eradication Fee DZ	ac	14.00	1.0000	14.00	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.13	26.0000	3.41	_____
ADJUVANTS					
Surfactant (80-20)	pt	1.27	0.4000	0.51	_____
CUSTOM HIRE					
Cstm Ap Air - 3 gal	appl	4.00	1.0000	4.00	_____
Cstm Ap Air - 5 gal	appl	5.50	9.0000	49.50	_____
Insect Scouting	acre	10.00	1.0000	10.00	_____
OPERATOR LABOR					
Tractors	hour	9.45	0.8428	7.96	_____
Self-Propelled	hour	9.45	0.2104	1.99	_____
IRRIGATION LABOR					
Furrow Irr.	hour	8.19	0.3017	2.48	_____
HAND LABOR					
Implements	hour	8.19	0.2568	2.10	_____
Self-Propelled	hour	8.19	0.1914	1.57	_____
DIESEL FUEL					
Tractors	gal	2.33	8.3543	19.47	_____
Self-Propelled	gal	2.33	3.4973	8.14	_____
Furrow Irr.	gal	2.33	12.0000	27.96	_____
REPAIR & MAINTENANCE					
Implements	acre	6.34	1.0000	6.34	_____
Tractors	acre	3.20	1.0000	3.20	_____
Self-Propelled	acre	10.71	1.0000	10.71	_____
Furrow Irr.	ac-in	0.17	12.0000	2.12	_____
INTEREST ON OP. CAP.	acre	18.57	1.0000	18.57	_____
TOTAL DIRECT EXPENSES				485.10	_____
FIXED EXPENSES					
Implements	acre	13.43	1.0000	13.43	_____
Tractors	acre	24.48	1.0000	24.48	_____
Self-Propelled	acre	51.77	1.0000	51.77	_____
Furrow Irr.	each	2993.11	0.0083	24.94	_____
TOTAL FIXED EXPENSES				114.62	_____

TOTAL SPECIFIED EXPENSES				599.72	_____

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Economics Assoc.

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Economist
- Risk Management

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- Cotton Agronomist

Table 2. Estimated resource use and costs for field operations, per acre AG-1144 NE, Furrow, 12R, SS, RRFlex, 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	Nov	1.74	1.93	1.39	1.03	0.08	0.78				6.87
TerraTill Bed w/roll	6R-38	MFWD 225	0.107	1.00	Nov	3.37	3.62	0.59	1.30	0.10	1.02				9.90
Fert Appl T&O	12-R 40	MFWD 190	0.033	1.00	Nov	0.88	0.95			0.03	0.31				2.14
0-60-120-10-1	acre											1.0000	72.28	72.29	72.29
Disk Bed (Hipper)	12R-38	MFWD 225	0.049	1.00	Nov	1.55	1.66	0.30	0.98	0.04	0.47				4.96
Sprayer(600-825Gal)	90'		0.011	1.00	Feb	0.39	0.88			0.01	0.16				1.43
Glyphosate Plus	pt											1.5000	1.88	2.82	2.82
Clarity	pt											0.5000	8.43	4.22	4.22
Sprayer(600-825Gal)	90'		0.011	0.25	Apr	0.10	0.22			0.00	0.04				0.36
Gramoxone Extra	pt											0.2500	3.75	0.94	0.94
Row Cond (Harrow)Fld	38'	MFWD 225	0.039	1.00	Apr	1.23	1.32	0.16	0.85	0.03	0.37				3.93
Plant - Folding	12R-38	MFWD 190	0.049	1.00	May	1.32	1.41	0.90	2.14	0.09	0.88				6.65
Cottonseed RRFlex	thous											48.0000	0.48	23.38	23.38
RR Flex Tech Fee N	thous											48.0000	0.78	37.44	37.44
Cruiser Seed Trmnt	thous											48.0000	0.18	8.88	8.88
Dynasty - Seed Trt	thous											48.0000	0.13	6.38	6.38
Fert Appl T&O	12-R 40	MFWD 190	0.033	1.00	May	0.88	0.95			0.03	0.31				2.14
Urea, Solid (46% N)	lb											109.0000	0.20	21.80	21.80
Sprayer(600-825Gal)	90'		0.011	1.00	May	0.39	0.88			0.01	0.16				1.43
Glyphosate Plus	pt											1.5000	1.88	2.82	2.82
Sprayer(600-825Gal)	90'		0.011	1.00	May	0.39	0.88			0.01	0.16				1.43
Glyphosate Plus	pt											1.5000	1.88	2.82	2.82
Dual Magnum	pt											1.0000	12.14	12.14	12.14
Fert Appl T&O	12-R 40	MFWD 190	0.033	1.00	Jun	0.88	0.95			0.03	0.31				2.14
Urea, Solid (46% N)	lb											109.0000	0.20	21.80	21.80
Spray (Direct/Hood)	12R-38	MFWD 170	0.044	1.00	Jun	1.07	1.20	0.38	0.56	0.06	0.60				3.81
Caparol 4L	pt											0.7500	3.64	2.73	2.73
Glyphosate Plus	pt											1.0000	1.88	1.88	1.88
Cstm Ap Air - 3 gal	appl			1.00	Jun							1.0000	4.00	4.00	4.00
Centric 40WG	oz											2.0000	4.16	8.32	8.32
Mepiquat Chloride	oz											4.0000	0.13	0.52	0.52
Spray (Band)	40' Fold	MFWD 170	0.042	0.60	Jun	0.61	0.69	0.07	0.10	0.03	0.34				1.81
Valor SX	lb											0.0562	65.37	3.68	3.68
Glyphosate Plus	pt											0.6000	1.88	1.13	1.13
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	3.79	5.69	5.69
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	6.28	3.14	3.14
Cstm Ap Air - 5 gal	appl			1.00	Jul							1.0000	5.50	5.50	5.50
Bidrin 8L	oz											8.0000	0.75	6.06	6.06
Mepiquat Chloride	oz											10.0000	0.13	1.31	1.31
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	6.28	3.14	3.14
Cstm Ap Air - 5 gal	appl			1.00	Jul							1.0000	5.50	5.50	5.50
Pyrethroid	ac											1.0000	2.60	2.61	2.61
Mepiquat Chloride	oz											12.0000	0.13	1.57	1.57

Cstm Ap Air - 5 gal	appl		1.00	Aug								1.0000	5.50	5.50	5.50
Bidrin 8L	oz											8.0000	0.75	6.06	6.06
Cstm Ap Air - 5 gal	appl		1.00	Aug								1.0000	5.50	5.50	5.50
Pyrethroid	ac											1.0000	2.60	2.61	2.61
Cstm Ap Air - 5 gal	appl		1.00	Sep								1.0000	5.50	5.50	5.50
Aim	oz											0.3300	5.70	1.88	1.88
Dropp SC	oz											1.6000	2.01	3.23	3.23
Finish 6	pt											0.3300	7.20	2.38	2.38
Surfactant (80-20)	pt											0.2000	1.27	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	5.70	3.82	3.82
Ethephon	pint											1.6000	2.93	4.70	4.70
Surfactant (80-20)	pt											0.2000	1.27	0.25	0.25
Boll Buggy-1st pick	6R-38(325)MFWD 190	0.172	1.00	Oct	4.57	4.90	1.12	2.83	0.17	1.63					15.05
Cotton Picker-1st-BB	6R-38(350)	0.172			17.58	48.91			0.34	3.04					69.53
Module Builder-1st	6R-38(325)MFWD 190	0.172	1.00	Oct	4.57	4.90	1.43	3.64	0.34	3.04					17.58
Furrow Irr.	each		1.00	Jun				24.94				0.0083			24.94
Application 1	ac-in						7.52		0.07	0.62		3.0000			8.14
Application 2	ac-in						7.52		0.07	0.62		3.0000			8.14
Application 3	ac-in						7.52		0.07	0.62		3.0000			8.14
Application 4	ac-in						7.52		0.07	0.62		3.0000			8.14
TOTALS					41.52	76.25	36.42	38.37	1.80	16.10				372.49	581.15
INTEREST ON OPERATING CAPITAL															18.57
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															599.72

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

Production Practice	Cost per acre ^a	Southeast/Central Eradication Zone	Ridge Eradication Zone	Northeast Eradication Zone
Bud worm/boll worm control				
Lannate 2.4 SL (1 gal./ 4 acres)	\$19.96	None	None	None
Larvin 3.2 (1 gal./ 3.5 acres)	\$24.00	None	None	None
Tracer (1 gal./ 64 acres)	\$18.52	None	None	None
Tracer (1/2 rate) + Pyretheroid	\$14.80	None	None	None
Red spider mite control				
Kelthane (1.25 qts)	\$17.74	None	None	None
Zeal (0.83 oz)	\$20.86	None	None	None
Zephyr (5 oz)	\$27.52	None	None	None
Herbicide applications				
Staple LX banded application (.75 oz)	\$8.15	None	None	None
Prowl 3.3 EC, incorporated (1.2 pts)	\$9.30	None	None	None
Treflan HFP, incorporated (.75 pts)	\$9.74	None	None	None
Treflan HFP, incorporated (1.5 pts)	\$11.64	None	None	None
Row cultivate plus directed spray	\$6.78 + material	None	None	None
Defoliation for Irrigated Cotton	\$25.97	AG-1120 – 1129	AG-1131 – 1139	AG-1141 – 1149
Defoliation for Dryland Cotton	\$21.62	AG-1119	AG-1130	AG-1140
Cruiser seed treatment	\$9.25	AG-1119 – 1122; 1124 – 1128	AG-1130 – 1132; 1134 – 1138	AG-1140 – 1145; 1147 – 1179
Gaicho seed treatment	\$9.50	AG-1123	AG-1133	None
Avicta Complete Pak seed treatment	\$23.64	None	None	None
Aeris Complete Pak seed treatment	\$17.79	None	None	None
Harvest				
4 row harvester, first pick ^b	\$69.83	AG-1119, 1120, 1121, 1122	AG-1130	AG-1140, 1148
4 row harvester, second pick ^b	\$59.16	None	None	None
6 row harvester, (38" rows), first pick ^b	\$69.67	AG-1123 – 1129	AG-1131 – 1139	AG-1141 – 1147; 1149
6 row harvester, (38" rows), second pick ^b	\$59.02	None	None	None
Module Builder	\$26.39	All	All	All
Irrigation				
Furrow (3 ac. in) – additional \$24.94/ac fixed cost	\$8.42 per application	AG-1122 – 1123; 1125 – 1129	AG-1132 – 1137	AG-1141 – 1144
Center pivot (1 ac. in) – additional \$68.20/ac fixed cost	\$6.30 per application	AG-1120, 1121, 1124	AG-1131, 1138, 1139	AG-1145 – 1149
Furrow, stationary relift (3 ac. in) – additional \$24.42/ac fixed cost	\$5.03 per application	None	None	None

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

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



**Estimating 2008 Costs of Production, Cotton
 Northeast Boll Weevil Eradication Zone, Center Pivot, 12 Row,
 Stale Seedbed, BG/RR
 AG-1145 12-07**

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HARVEST AIDS					
Aim	oz	5.70	1.0000	5.70	_____
Dropp SC	oz	2.01	1.6000	3.23	_____
Finish 6	pt	7.20	0.3300	2.38	_____
Ethephon	pint	2.93	1.6000	4.70	_____
FERTILIZERS					
0-60-120-10-1	acre	72.28	1.0000	72.29	_____
Urea, Solid (46% N)	lb	0.20	218.0000	43.60	_____
HERBICIDES					
Glyphosate Plus	pt	1.88	6.1000	11.47	_____
Clarity	pt	8.43	0.5000	4.22	_____
Gramoxone Extra	pt	3.75	0.2500	0.94	_____
Dual Magnum	pt	12.14	1.0000	12.14	_____
Caparol 4L	pt	3.64	0.7500	2.73	_____
Valor SX	lb	65.37	0.0562	3.68	_____
INSECTICIDES					
Centric 40WG	oz	4.16	2.0000	8.32	_____
Trimax	oz	3.79	1.5000	5.69	_____
Orthene 90S	lb	6.28	1.0000	6.28	_____
Bidrin 8L	oz	0.75	16.0000	12.13	_____
Pyrethroid	ac	2.60	2.0000	5.21	_____
CROP SEED					
Cottonseed BG/RR	thous	0.49	48.0000	23.90	_____
Cruiser Seed Trmnt	thous	0.18	48.0000	8.88	_____
Dynasty - Seed Trt	thous	0.13	48.0000	6.38	_____
TECHNOLOGY FEE					
BGRR Cott Tech Fee N	thous	1.07	48.0000	51.36	_____
Eradication Fee DZ	ac	14.00	1.0000	14.00	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.13	26.0000	3.41	_____
ADJUVANTS					
Surfactant (80-20)	pt	1.27	0.4000	0.51	_____
CUSTOM HIRE					
Cstm Ap Air - 3 gal	appl	4.00	1.0000	4.00	_____
Cstm Ap Air - 5 gal	appl	5.50	9.0000	49.50	_____
Insect Scouting	acre	10.00	1.0000	10.00	_____
OPERATOR LABOR					
Tractors	hour	9.45	0.8428	7.96	_____
Self-Propelled	hour	9.45	0.2104	1.99	_____
IRRIGATION LABOR					
Center pivot Irr.	hour	8.19	0.0568	0.49	_____
HAND LABOR					
Implements	hour	8.19	0.2568	2.10	_____
Self-Propelled	hour	8.19	0.1914	1.57	_____
DIESEL FUEL					
Tractors	gal	2.33	8.3543	19.47	_____
Self-Propelled	gal	2.33	3.4973	8.14	_____
Center pivot Irr.	gal	2.33	14.0000	32.62	_____
REPAIR & MAINTENANCE					
Implements	acre	6.34	1.0000	6.34	_____
Tractors	acre	3.20	1.0000	3.20	_____
Self-Propelled	acre	10.71	1.0000	10.71	_____
Center pivot Irr.	ac-in	1.39	7.0000	9.80	_____
INTEREST ON OP. CAP.	acre	19.09	1.0000	19.09	_____
TOTAL DIRECT EXPENSES				500.11	_____
FIXED EXPENSES					
Implements	acre	13.43	1.0000	13.43	_____
Tractors	acre	24.48	1.0000	24.48	_____
Self-Propelled	acre	51.77	1.0000	51.77	_____
Center pivot Irr.	each	8866.29	0.0076	68.20	_____
TOTAL FIXED EXPENSES				157.88	_____
TOTAL SPECIFIED EXPENSES				657.99	_____

**Pam Guiling,
 Agricultural
 Economics Assoc.**

**Scott Stiles,
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 – Risk Management**

**Tom Barber,
 Assistant Professor
 – Cotton Agronomist**

Table 2. Estimated resource use and costs for field operations, per acre AG-1145 NE, CP, 12R, SS, BG/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	Nov	1.74	1.93	1.39	1.03	0.08	0.78				6.87
TerraTill Bed w/roll	6R-38	MFWD 225	0.107	1.00	Nov	3.37	3.62	0.59	1.30	0.10	1.02				9.90
Fert Appl T&O	12-R 40	MFWD 190	0.033	1.00	Nov	0.88	0.95			0.03	0.31				2.14
0-60-120-10-1	acre											1.0000	72.28	72.29	72.29
Disk Bed (Hipper)	12R-38	MFWD 225	0.049	1.00	Nov	1.55	1.66	0.30	0.98	0.04	0.47				4.96
Sprayer(600-825Gal)	90'		0.011	1.00	Feb	0.39	0.88			0.01	0.16				1.43
Glyphosate Plus	pt											1.5000	1.88	2.82	2.82
Clarity	pt											0.5000	8.43	4.22	4.22
Sprayer(600-825Gal)	90'		0.011	0.25	Apr	0.10	0.22			0.00	0.04				0.36
Gramoxone Extra	pt											0.2500	3.75	0.94	0.94
Row Cond (Harrow)Fld	38'	MFWD 225	0.039	1.00	Apr	1.23	1.32	0.16	0.85	0.03	0.37				3.93
Plant - Folding	12R-38	MFWD 190	0.049	1.00	May	1.32	1.41	0.90	2.14	0.09	0.88				6.65
Cottonseed BG/RR	thous											48.0000	0.49	23.90	23.90
BGRR Cott Tech Fee N	thous											48.0000	1.07	51.36	51.36
Cruiser Seed Trmnt	thous											48.0000	0.18	8.88	8.88
Dynasty - Seed Trt	thous											48.0000	0.13	6.38	6.38
Fert Appl T&O	12-R 40	MFWD 190	0.033	1.00	May	0.88	0.95			0.03	0.31				2.14
Urea, Solid (46% N)	lb											109.0000	0.20	21.80	21.80
Sprayer(600-825Gal)	90'		0.011	1.00	May	0.39	0.88			0.01	0.16				1.43
Glyphosate Plus	pt											1.5000	1.88	2.82	2.82
Sprayer(600-825Gal)	90'		0.011	1.00	May	0.39	0.88			0.01	0.16				1.43
Glyphosate Plus	pt											1.5000	1.88	2.82	2.82
Dual Magnum	pt											1.0000	12.14	12.14	12.14
Fert Appl T&O	12-R 40	MFWD 190	0.033	1.00	Jun	0.88	0.95			0.03	0.31				2.14
Urea, Solid (46% N)	lb											109.0000	0.20	21.80	21.80
Spray (Direct/Hood)	12R-38	MFWD 170	0.044	1.00	Jun	1.07	1.20	0.38	0.56	0.06	0.60				3.81
Caparol 4L	pt											0.7500	3.64	2.73	2.73
Glyphosate Plus	pt											1.0000	1.88	1.88	1.88
Cstm Ap Air - 3 gal	appl			1.00	Jun							1.0000	4.00	4.00	4.00
Centric 40WG	oz											2.0000	4.16	8.32	8.32
Mepiquat Chloride	oz											4.0000	0.13	0.52	0.52
Spray (Band)	40' Fold	MFWD 170	0.042	0.60	Jun	0.61	0.69	0.07	0.10	0.03	0.34				1.81
Valor SX	lb											0.0562	65.37	3.68	3.68
Glyphosate Plus	pt											0.6000	1.88	1.13	1.13
Cstm Ap Air - 5 gal	appl			1.00	Jul							1.0000	5.50	5.50	5.50
Trimax	oz											1.5000	3.79	5.69	5.69
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	6.28	3.14	3.14
Cstm Ap Air - 5 gal	appl			1.00	Jul							1.0000	5.50	5.50	5.50
Bidrin 8L	oz											8.0000	0.75	6.06	6.06
Mepiquat Chloride	oz											10.0000	0.13	1.31	1.31
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	6.28	3.14	3.14
Cstm Ap Air - 5 gal	appl			1.00	Jul							1.0000	5.50	5.50	5.50
Pyrethroid	ac											1.0000	2.60	2.61	2.61
Mepiquat Chloride	oz											12.0000	0.13	1.57	1.57
Cstm Ap Air - 5 gal	appl			1.00	Aug							1.0000	5.50	5.50	5.50

Bidrin 8L	oz										8.0000	0.75	6.06	6.06
Cstm Ap Air - 5 gal	appl	1.00	Aug								1.0000	5.50	5.50	5.50
Pyrethroid	ac										1.0000	2.60	2.61	2.61
Cstm Ap Air - 5 gal	appl	1.00	Sep								1.0000	5.50	5.50	5.50
Aim	oz										0.3300	5.70	1.88	1.88
Dropp SC	oz										1.6000	2.01	3.23	3.23
Finish 6	pt										0.3300	7.20	2.38	2.38
Surfactant (80-20)	pt										0.2000	1.27	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	5.70	3.82	3.82
Ethephon	pint										1.6000	2.93	4.70	4.70
Surfactant (80-20)	pt										0.2000	1.27	0.25	0.25
Boll Buggy-1st pick	6R-38(325 MFWD 190	0.172	1.00	Oct	4.57	4.90	1.12	2.83	0.17	1.63				15.05
Cotton Picker-1st-BB	6R-38(350)	0.172			17.58	48.91			0.34	3.04				69.53
Module Builder-1st	6R-38(325)MFWD 190	0.172	1.00	Oct	4.57	4.90	1.43	3.64	0.34	3.04				17.58
Center pivot Irr.	each	1.00	Jun					68.20			0.0076			68.20
Application 1	ac-in						6.06		0.00	0.07	1.0000			6.13
Application 2	ac-in						6.06		0.00	0.07	1.0000			6.13
Application 3	ac-in						6.06		0.00	0.07	1.0000			6.13
Application 4	ac-in						6.06		0.00	0.07	1.0000			6.13
Application 5	ac-in						6.06		0.00	0.07	1.0000			6.13
Application 6	ac-in						6.06		0.00	0.07	1.0000			6.13
Application 7	ac-in						6.06		0.00	0.07	1.0000			6.13
TOTALS					41.52	76.25	48.76	81.63	1.55	14.11			376.63	638.90
INTEREST ON OPERATING CAPITAL														19.09
UNALLOCATED LABOR														0.00
TOTAL SPECIFIED COST														657.99

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	Southeast/Central Eradication Zone	Ridge Eradication Zone	Northeast Eradication Zone
Bud worm/boll worm control				
Lannate 2.4 SL (1 gal./ 4 acres)	\$19.96	None	None	None
Larvin 3.2 (1 gal./ 3.5 acres)	\$24.00	None	None	None
Tracer (1 gal./ 64 acres)	\$18.52	None	None	None
Tracer (1/2 rate) + Pyretheroid	\$14.80	None	None	None
Red spider mite control				
Kelthane (1.25 qts)	\$17.74	None	None	None
Zeal (0.83 oz)	\$20.86	None	None	None
Zephyr (5 oz)	\$27.52	None	None	None
Herbicide applications				
Staple LX banded application (.75 oz)	\$8.15	None	None	None
Prowl 3.3 EC, incorporated (1.2 pts)	\$9.30	None	None	None
Treflan HFP, incorporated (.75 pts)	\$9.74	None	None	None
Treflan HFP, incorporated (1.5 pts)	\$11.64	None	None	None
Row cultivate plus directed spray	\$6.78 + material	None	None	None
Defoliation for Irrigated Cotton	\$25.97	AG-1120 – 1129	AG-1131 – 1139	AG-1141 – 1149
Defoliation for Dryland Cotton	\$21.62	AG-1119	AG-1130	AG-1140
Cruiser seed treatment	\$9.25	AG-1119 – 1122; 1124 – 1128	AG-1130 – 1132; 1134 – 1138	AG-1140 – 1145; 1147 – 1179
Gaicho seed treatment	\$9.50	AG-1123	AG-1133	None
Avicta Complete Pak seed treatment	\$23.64	None	None	None
Aeris Complete Pak seed treatment	\$17.79	None	None	None
Harvest				
4 row harvester, first pick ^b	\$69.83	AG-1119, 1120, 1121, 1122	AG-1130	AG-1140, 1148
4 row harvester, second pick ^b	\$59.16	None	None	None
6 row harvester, (38" rows), first pick ^b	\$69.67	AG-1123 – 1129	AG-1131 – 1139	AG-1141 – 1147; 1149
6 row harvester, (38" rows), second pick ^b	\$59.02	None	None	None
Module Builder	\$26.39	All	All	All
Irrigation				
Furrow (3 ac. in) – additional \$24.94/ac fixed cost	\$8.42 per application	AG-1122 – 1123; 1125 – 1129	AG-1132 – 1137	AG-1141 – 1144
Center pivot (1 ac. in) – additional \$68.20/ac fixed cost	\$6.30 per application	AG-1120, 1121, 1124	AG-1131, 1138, 1139	AG-1145 – 1149
Furrow, stationary relift (3 ac. in) – additional \$24.42/ac fixed cost	\$5.03 per application	None	None	None

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

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



**Estimating 2008 Costs of Production, Cotton
 Northeast Boll Weevil Eradication Zone, Center Pivot, 12 Row,
 No-Till, BG/RR
 AG-1146 12-07**

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HARVEST AIDS					
Def 6	pt	5.75	1.1600	6.67	_____
Finish 6	pt	7.20	0.3300	2.38	_____
Dropp SC	oz	2.01	1.6000	3.23	_____
Ethephon	pint	2.93	1.6000	4.70	_____
FERTILIZERS					
0-60-120-10-1	acre	72.28	1.0000	72.29	_____
Urea, Solid (46% N)	lb	0.20	218.0000	43.60	_____
HERBICIDES					
Glyphosate Plus	pt	1.88	4.6000	8.65	_____
Clarity	pt	8.43	0.5000	4.22	_____
Gramoxone Extra	pt	3.75	0.2500	0.94	_____
Cotoran 4L	pt	4.64	1.6000	7.44	_____
Caparol 4L	pt	3.64	0.7500	2.73	_____
Dual Magnum	pt	12.14	1.0000	12.14	_____
Valor SX	lb	65.37	0.0562	3.68	_____
INSECTICIDES					
Temik 15G Grit	lb	3.15	3.5000	11.04	_____
Baythroid 2	oz	2.23	0.2000	0.45	_____
Centric 40WG	oz	4.16	2.0000	8.32	_____
Trimax	oz	3.79	1.5000	5.69	_____
Orthene 90S	lb	6.28	1.0000	6.28	_____
Bidrin 8L	oz	0.75	16.0000	12.13	_____
Pyrethroid	ac	2.60	2.0000	5.21	_____
CROP SEED					
Cottonseed BG/RR	thous	0.49	48.0000	23.90	_____
Dynasty - Seed Trt	thous	0.13	48.0000	6.38	_____
TECHNOLOGY FEE					
BGRR Cott Tech Fee N	thous	1.07	48.0000	51.36	_____
Eradication Fee DZ	ac	14.00	1.0000	14.00	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.13	26.0000	3.41	_____
CUSTOM HIRE					
Cstm Ap Air - 3 gal	appl	4.00	1.0000	4.00	_____
Insect Scouting	acre	10.00	1.0000	10.00	_____
Cstm Ap Air - 5 gal	appl	5.50	9.0000	49.50	_____
OPERATOR LABOR					
Tractors	hour	9.45	0.6414	6.05	_____
Self-Propelled	hour	9.45	0.2104	1.99	_____
IRRIGATION LABOR					
Center pivot Irr.	hour	8.19	0.0568	0.49	_____
HAND LABOR					
Implements	hour	8.19	0.2346	1.92	_____
Self-Propelled	hour	8.19	0.1914	1.57	_____
DIESEL FUEL					
Tractors	gal	2.33	6.1478	14.33	_____
Self-Propelled	gal	2.33	3.4973	8.14	_____
Center pivot Irr.	gal	2.33	14.0000	32.62	_____
REPAIR & MAINTENANCE					
Implements	acre	5.07	1.0000	5.07	_____
Tractors	acre	2.35	1.0000	2.35	_____
Self-Propelled	acre	10.71	1.0000	10.71	_____
Center pivot Irr.	ac-in	1.39	7.0000	9.80	_____
INTEREST ON OP. CAP.	acre	16.75	1.0000	16.75	_____
TOTAL DIRECT EXPENSES				496.13	_____
FIXED EXPENSES					
Implements	acre	10.59	1.0000	10.59	_____
Tractors	acre	18.00	1.0000	18.00	_____
Self-Propelled	acre	51.77	1.0000	51.77	_____
Center pivot Irr.	each	8866.29	0.0076	68.20	_____
TOTAL FIXED EXPENSES				148.56	_____
TOTAL SPECIFIED EXPENSES				644.69	_____

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 – Cotton Agronomist**

Table 2. Estimated resource use and costs for field operations, per acre AG-1146 NE, CP, 12R, No-Till, BG/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	Nov	1.74	1.93	1.39	1.03	0.08	0.78				6.87
Sprayer(600-825Gal)	90'		0.011	1.00	Feb	0.39	0.88			0.01	0.16				1.43
Glyphosate Plus	pt											1.5000	1.88	2.82	2.82
Clarity	pt											0.5000	8.43	4.22	4.22
Fert Appl T&O	12-R 40	MFWD 190	0.033	1.00	Mar	0.88	0.95			0.03	0.31				2.14
0-60-120-10-1	acre											1.0000	72.28	72.29	72.29
Sprayer(600-825Gal)	90'		0.011	0.25	Apr	0.10	0.22			0.00	0.04				0.36
Gramoxone Extra	pt											0.2500	3.75	0.94	0.94
Row Cond (Harrow)Fld	38'	MFWD 225	0.039	1.00	Apr	1.23	1.32	0.16	0.85	0.03	0.37				3.93
Plant - Folding	12R-38	MFWD 190	0.049	1.00	May	1.32	1.41	0.90	2.14	0.09	0.88				6.65
Cottonseed BG/RR	thous											48.0000	0.49	23.90	23.90
BGRR Cott Tech Fee N	thous											48.0000	1.07	51.36	51.36
Temik 15G Grit	lb											3.5000	3.15	11.04	11.04
Cotoran 4L	pt											1.6000	4.64	7.44	7.44
Baythroid 2	oz											0.2000	2.23	0.45	0.45
Dynasty - Seed Trt	thous											48.0000	0.13	6.38	6.38
Fert Appl T&O	12-R 40	MFWD 190	0.033	1.00	May	0.88	0.95			0.03	0.31				2.14
Urea, Solid (46% N)	lb											109.0000	0.20	21.80	21.80
Sprayer(600-825Gal)	90'		0.011	1.00	May	0.39	0.88			0.01	0.16				1.43
Glyphosate Plus	pt											1.5000	1.88	2.82	2.82
Sprayer(600-825Gal)	90'		0.011	1.00	May	0.39	0.88			0.01	0.16				1.43
Glyphosate Plus	pt											1.0000	1.88	1.88	1.88
Caparol 4L	pt											0.7500	3.64	2.73	2.73
Dual Magnum	pt											1.0000	12.14	12.14	12.14
Fert Appl T&O	12-R 40	MFWD 190	0.033	1.00	Jun	0.88	0.95			0.03	0.31				2.14
Urea, Solid (46% N)	lb											109.0000	0.20	21.80	21.80
Cstm Ap Air - 3 gal	appl			1.00	Jun							1.0000	4.00	4.00	4.00
Centric 40WG	oz											2.0000	4.16	8.32	8.32
Mepiquat Chloride	oz											4.0000	0.13	0.52	0.52
Spray (Band)	40' Fold	MFWD 170	0.042	0.60	Jun	0.61	0.69	0.07	0.10	0.03	0.34				1.81
Valor SX	lb											0.0562	65.37	3.68	3.68
Glyphosate Plus	pt											0.6000	1.88	1.13	1.13
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
Trimax	oz											1.5000	3.79	5.69	5.69
Cstm Ap Air - 5 gal	appl			1.00	Jul							1.0000	5.50	5.50	5.50
Orthene 90S	lb											0.5000	6.28	3.14	3.14
Cstm Ap Air - 5 gal	appl			1.00	Jul							1.0000	5.50	5.50	5.50
Bidrin 8L	oz											8.0000	0.75	6.06	6.06
Mepiquat Chloride	oz											10.0000	0.13	1.31	1.31
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	6.28	3.14	3.14
Cstm Ap Air - 5 gal	appl			1.00	Jul							1.0000	5.50	5.50	5.50
Pyrethroid	ac											1.0000	2.60	2.61	2.61
Cstm Ap Air - 5 gal	appl			1.00	Aug							1.0000	5.50	5.50	5.50
Bidrin 8L	oz											8.0000	0.75	6.06	6.06
Mepiquat Chloride	oz											12.0000	0.13	1.57	1.57
Cstm Ap Air - 5 gal	appl			1.00	Aug							1.0000	5.50	5.50	5.50

Pyrethroid	ac										1.0000	2.60	2.61	2.61
Cstm Ap Air - 5 gal	appl	1.00	Sep								1.0000	5.50	5.50	5.50
Def 6	pt										0.5000	5.75	2.88	2.88
Finish 6	pt										0.3300	7.20	2.38	2.38
Dropp SC	oz										1.6000	2.01	3.23	3.23
Cstm Ap Air - 5 gal	appl	1.00	Sep								1.0000	5.50	5.50	5.50
Def 6	pt										0.6600	5.75	3.80	3.80
Ethephon	pint										1.6000	2.93	4.70	4.70
Boll Buggy-1st pick	6R-38(325)MFWD 190	0.172	1.00	Oct	4.57	4.90	1.12	2.83	0.17	1.63				15.05
Cotton Picker-1st-BB	6R-38(350)	0.172			17.58	48.91			0.34	3.04				69.53
Module Builder-1st	6R-38(325)MFWD 190	0.172	1.00	Oct	4.57	4.90	1.43	3.64	0.34	3.04				17.58
Center pivot Irr.	each	1.00	Jun					68.20			0.0076			68.20
Application 1	ac-in						6.06		0.00	0.07	1.0000			6.13
Application 2	ac-in						6.06		0.00	0.07	1.0000			6.13
Application 3	ac-in						6.06		0.00	0.07	1.0000			6.13
Application 4	ac-in						6.06		0.00	0.07	1.0000			6.13
Application 5	ac-in						6.06		0.00	0.07	1.0000			6.13
Application 6	ac-in						6.06		0.00	0.07	1.0000			6.13
Application 7	ac-in						6.06		0.00	0.07	1.0000			6.13
TOTALS					35.53	69.77	47.49	78.79	1.33	12.02			384.34	627.94
INTEREST ON OPERATING CAPITAL														16.75
UNALLOCATED LABOR														0.00
TOTAL SPECIFIED COST														644.69

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AG-1146 12-07

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

Production Practice	Cost per acre^a	Southeast/Central Eradication Zone	Ridge Eradication Zone	Northeast Eradication Zone
Bud worm/boll worm control				
Lannate 2.4 SL (1 gal./ 4 acres)	\$19.96	None	None	None
Larvin 3.2 (1 gal./ 3.5 acres)	\$24.00	None	None	None
Tracer (1 gal./ 64 acres)	\$18.52	None	None	None
Tracer (1/2 rate) + Pyretheroid	\$14.80	None	None	None
Red spider mite control				
Kelthane (1.25 qts)	\$17.74	None	None	None
Zeal (0.83 oz)	\$20.86	None	None	None
Zephyr (5 oz)	\$27.52	None	None	None
Herbicide applications				
Staple LX banded application (.75 oz)	\$8.15	None	None	None
Prowl 3.3 EC, incorporated (1.2 pts)	\$9.30	None	None	None
Treflan HFP, incorporated (.75 pts)	\$9.74	None	None	None
Treflan HFP, incorporated (1.5 pts)	\$11.64	None	None	None
Row cultivate plus directed spray	\$6.78 + material	None	None	None
Defoliation for Irrigated Cotton	\$25.97	AG-1120 – 1129	AG-1131 – 1139	AG-1141 – 1149
Defoliation for Dryland Cotton	\$21.62	AG-1119	AG-1130	AG-1140
Cruiser seed treatment	\$9.25	AG-1119 – 1122; 1124 – 1128	AG-1130 – 1132; 1134 – 1138	AG-1140 – 1145; 1147 – 1179
Gaucha seed treatment	\$9.50	AG-1123	AG-1133	None
Avicta Complete Pak seed treatment	\$23.64	None	None	None
Aeris Complete Pak seed treatment	\$17.79	None	None	None
Harvest				
4 row harvester, first pick ^b	\$69.83	AG-1119, 1120, 1121, 1122	AG-1130	AG-1140, 1148
4 row harvester, second pick ^b	\$59.16	None	None	None
6 row harvester, (38" rows), first pick ^b	\$69.67	AG-1123 – 1129	AG-1131 – 1139	AG-1141 – 1147; 1149
6 row harvester, (38" rows), second pick ^b	\$59.02	None	None	None
Module Builder	\$26.39	All	All	All
Irrigation				
Furrow (3 ac. in) – additional \$24.94/ac fixed cost	\$8.42 per application	AG-1122 – 1123; 1125 – 1129	AG-1132 – 1137	AG-1141 – 1144
Center pivot (1 ac. in) – additional \$68.20/ac fixed cost	\$6.30 per application	AG-1120, 1121, 1124	AG-1131, 1138, 1139	AG-1145 – 1149
Furrow, stationary relift (3 ac. in) – additional \$24.42/ac fixed cost	\$5.03 per application	None	None	None

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

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



**Estimating 2008 Costs of Production, Cotton
 Northeast Boll Weevil Eradication Zone, Center Pivot, 12 Row,
 Stale Seedbed, BGII/RRFlex
 AG-1147 12-07**

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HARVEST AIDS					
Aim	oz	5.70	1.0000	5.70	_____
Dropp SC	oz	2.01	1.6000	3.23	_____
Finish 6	pt	7.20	0.3300	2.38	_____
Ethephon	pint	2.93	1.6000	4.70	_____
FERTILIZERS					
0-60-120-10-1	acre	72.28	1.0000	72.29	_____
Urea, Solid (46% N)	lb	0.20	218.0000	43.60	_____
HERBICIDES					
Glyphosate Plus	pt	1.88	6.1000	11.47	_____
Clarity	pt	8.43	0.5000	4.22	_____
Gramoxone Extra	pt	3.75	0.2500	0.94	_____
Dual Magnum	pt	12.14	1.0000	12.14	_____
Caparol 4L	pt	3.64	0.7500	2.73	_____
Valor SX	lb	65.37	0.0562	3.68	_____
INSECTICIDES					
Centric 40WG	oz	4.16	2.0000	8.32	_____
Trimax	oz	3.79	1.5000	5.69	_____
Orthene 90S	lb	6.28	1.0000	6.28	_____
Bidrin 8L	oz	0.75	16.0000	12.13	_____
Pyrethroid	ac	2.60	2.0000	5.21	_____
CROP SEED					
Cottonsd BGII/RRFlex	thous	0.49	48.0000	23.66	_____
Cruiser Seed Trmnt	thous	0.18	48.0000	8.88	_____
Dynasty - Seed Trt	thous	0.13	48.0000	6.38	_____
TECHNOLOGY FEE					
BGII/RRF Tech N	thous	1.47	48.0000	70.56	_____
Eradication Fee DZ	ac	14.00	1.0000	14.00	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.13	26.0000	3.41	_____
ADJUVANTS					
Surfactant (80-20)	pt	1.27	0.4000	0.51	_____
CUSTOM HIRE					
Cstm Ap Air - 3 gal	appl	4.00	1.0000	4.00	_____
Cstm Ap Air - 5 gal	appl	5.50	9.0000	49.50	_____
Insect Scouting	acre	10.00	1.0000	10.00	_____
OPERATOR LABOR					
Tractors	hour	9.45	0.8428	7.96	_____
Self-Propelled	hour	9.45	0.2104	1.99	_____
IRRIGATION LABOR					
Center pivot Irr.	hour	8.19	0.0568	0.49	_____
HAND LABOR					
Implements	hour	8.19	0.2568	2.10	_____
Self-Propelled	hour	8.19	0.1914	1.57	_____
DIESEL FUEL					
Tractors	gal	2.33	8.3543	19.47	_____
Self-Propelled	gal	2.33	3.4973	8.14	_____
Center pivot Irr.	gal	2.33	14.0000	32.62	_____
REPAIR & MAINTENANCE					
Implements	acre	6.34	1.0000	6.34	_____
Tractors	acre	3.20	1.0000	3.20	_____
Self-Propelled	acre	10.71	1.0000	10.71	_____
Center pivot Irr.	ac-in	1.39	7.0000	9.80	_____
INTEREST ON OP. CAP.	acre	19.87	1.0000	19.87	_____
TOTAL DIRECT EXPENSES				519.85	_____
FIXED EXPENSES					
Implements	acre	13.43	1.0000	13.43	_____
Tractors	acre	24.48	1.0000	24.48	_____
Self-Propelled	acre	51.77	1.0000	51.77	_____
Center pivot Irr.	each	8866.29	0.0076	68.20	_____
TOTAL FIXED EXPENSES				157.88	_____
TOTAL SPECIFIED EXPENSES				677.73	_____

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Agricultural
Economics Assoc.

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Instructor/Extension
Economist
- Risk Management

Tom Barber,
Assistant Professor
- Cotton Agronomist

Table 2. Estimated resource use and costs for field operations, per acre AG-1147 NE, CP, 12R, SS, BGII/RRFlex, 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	Nov	1.74	1.93	1.39	1.03	0.08	0.78				6.87
TerraTill Bed w/roll	6R-38	MFWD 225	0.107	1.00	Nov	3.37	3.62	0.59	1.30	0.10	1.02				9.90
Fert Appl T&O	12-R 40	MFWD 190	0.033	1.00	Nov	0.88	0.95			0.03	0.31				2.14
0-60-120-10-1	acre											1.0000	72.28	72.29	72.29
Disk Bed (Hipper)	12R-38	MFWD 225	0.049	1.00	Nov	1.55	1.66	0.30	0.98	0.04	0.47				4.96
Sprayer(600-825Gal)	90'		0.011	1.00	Feb	0.39	0.88			0.01	0.16				1.43
Glyphosate Plus	pt											1.5000	1.88	2.82	2.82
Clarity	pt											0.5000	8.43	4.22	4.22
Sprayer(600-825Gal)	90'		0.011	0.25	Apr	0.10	0.22			0.00	0.04				0.36
Gramoxone Extra	pt											0.2500	3.75	0.94	0.94
Row Cond (Harrow)Fld	38'	MFWD 225	0.039	1.00	Apr	1.23	1.32	0.16	0.85	0.03	0.37				3.93
Plant - Folding	12R-38	MFWD 190	0.049	1.00	May	1.32	1.41	0.90	2.14	0.09	0.88				6.65
Cottonsd BGII/RRFlex	thous											48.0000	0.49	23.66	23.66
BGII/RRF Tech N	thous											48.0000	1.47	70.56	70.56
Cruiser Seed Trmnt	thous											48.0000	0.18	8.88	8.88
Dynasty - Seed Trt	thous											48.0000	0.13	6.38	6.38
Fert Appl T&O	12-R 40	MFWD 190	0.033	1.00	May	0.88	0.95			0.03	0.31				2.14
Urea, Solid (46% N)	lb											109.0000	0.20	21.80	21.80
Sprayer(600-825Gal)	90'		0.011	1.00	May	0.39	0.88			0.01	0.16				1.43
Glyphosate Plus	pt											1.5000	1.88	2.82	2.82
Sprayer(600-825Gal)	90'		0.011	1.00	May	0.39	0.88			0.01	0.16				1.43
Glyphosate Plus	pt											1.5000	1.88	2.82	2.82
Dual Magnum	pt											1.0000	12.14	12.14	12.14
Fert Appl T&O	12-R 40	MFWD 190	0.033	1.00	Jun	0.88	0.95			0.03	0.31				2.14
Urea, Solid (46% N)	lb											109.0000	0.20	21.80	21.80
Spray (Direct/Hood)	12R-38	MFWD 170	0.044	1.00	Jun	1.07	1.20	0.38	0.56	0.06	0.60				3.81
Caparol 4L	pt											0.7500	3.64	2.73	2.73
Glyphosate Plus	pt											1.0000	1.88	1.88	1.88
Cstm Ap Air - 3 gal	appl			1.00	Jun							1.0000	4.00	4.00	4.00
Centric 40WG	oz											2.0000	4.16	8.32	8.32
Mepiquat Chloride	oz											4.0000	0.13	0.52	0.52
Spray (Band)	40' Fold	MFWD 170	0.042	0.60	Jun	0.61	0.69	0.07	0.10	0.03	0.34				1.81
Valor SX	lb											0.0562	65.37	3.68	3.68
Glyphosate Plus	pt											0.6000	1.88	1.13	1.13
Cstm Ap Air - 5 gal	appl			1.00	Jul							1.0000	5.50	5.50	5.50
Trimax	oz											1.5000	3.79	5.69	5.69
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	6.28	3.14	3.14
Cstm Ap Air - 5 gal	appl			1.00	Jul							1.0000	5.50	5.50	5.50
Bidrin 8L	oz											8.0000	0.75	6.06	6.06
Mepiquat Chloride	oz											10.0000	0.13	1.31	1.31
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	6.28	3.14	3.14
Cstm Ap Air - 5 gal	appl			1.00	Jul							1.0000	5.50	5.50	5.50
Pyrethroid	ac											1.0000	2.60	2.61	2.61
Mepiquat Chloride	oz											12.0000	0.13	1.57	1.57
Cstm Ap Air - 5 gal	appl			1.00	Aug							1.0000	5.50	5.50	5.50

Bidrin 8L	oz										8.0000	0.75	6.06	6.06
Cstm Ap Air - 5 gal	appl	1.00	Aug								1.0000	5.50	5.50	5.50
Pyrethroid	ac										1.0000	2.60	2.61	2.61
Cstm Ap Air - 5 gal	appl	1.00	Sep								1.0000	5.50	5.50	5.50
Aim	oz										0.3300	5.70	1.88	1.88
Dropp SC	oz										1.6000	2.01	3.23	3.23
Finish 6	pt										0.3300	7.20	2.38	2.38
Surfactant (80-20)	pt										0.2000	1.27	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	5.70	3.82	3.82
Ethephon	pint										1.6000	2.93	4.70	4.70
Surfactant (80-20)	pt										0.2000	1.27	0.25	0.25
Boll Buggy-1st pick	6R-38(325)MFWD 190	0.172	1.00	Oct	4.57	4.90	1.12	2.83	0.17	1.63				15.05
Cotton Picker-1st-BB	6R-38(350)	0.172			17.58	48.91			0.34	3.04				69.53
Module Builder-1st	6R-38(325)MFWD 190	0.172	1.00	Oct	4.57	4.90	1.43	3.64	0.34	3.04				17.58
Center pivot Irr.	each	1.00	Jun					68.20			0.0076			68.20
Application 1	ac-in						6.06		0.00	0.07	1.0000			6.13
Application 2	ac-in						6.06		0.00	0.07	1.0000			6.13
Application 3	ac-in						6.06		0.00	0.07	1.0000			6.13
Application 4	ac-in						6.06		0.00	0.07	1.0000			6.13
Application 5	ac-in						6.06		0.00	0.07	1.0000			6.13
Application 6	ac-in						6.06		0.00	0.07	1.0000			6.13
Application 7	ac-in						6.06		0.00	0.07	1.0000			6.13
TOTALS					41.52	76.25	48.76	81.63	1.55	14.11			395.59	657.86
INTEREST ON OPERATING CAPITAL														19.87
UNALLOCATED LABOR														0.00
TOTAL SPECIFIED COST														677.73

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

Production Practice	Cost per acre ^a	Southeast/Central Eradication Zone	Ridge Eradication Zone	Northeast Eradication Zone
Bud worm/boll worm control				
Lannate 2.4 SL (1 gal./ 4 acres)	\$19.96	None	None	None
Larvin 3.2 (1 gal./ 3.5 acres)	\$24.00	None	None	None
Tracer (1 gal./ 64 acres)	\$18.52	None	None	None
Tracer (1/2 rate) + Pyretheroid	\$14.80	None	None	None
Red spider mite control				
Kelthane (1.25 qts)	\$17.74	None	None	None
Zeal (0.83 oz)	\$20.86	None	None	None
Zephyr (5 oz)	\$27.52	None	None	None
Herbicide applications				
Staple LX banded application (.75 oz)	\$8.15	None	None	None
Prowl 3.3 EC, incorporated (1.2 pts)	\$9.30	None	None	None
Treflan HFP, incorporated (.75 pts)	\$9.74	None	None	None
Treflan HFP, incorporated (1.5 pts)	\$11.64	None	None	None
Row cultivate plus directed spray	\$6.78 + material	None	None	None
Defoliation for Irrigated Cotton	\$25.97	AG-1120 – 1129	AG-1131 – 1139	AG-1141 – 1149
Defoliation for Dryland Cotton	\$21.62	AG-1119	AG-1130	AG-1140
Cruiser seed treatment	\$9.25	AG-1119 – 1122; 1124 – 1128	AG-1130 – 1132; 1134 – 1138	AG-1140 – 1145; 1147 – 1179
Gaicho seed treatment	\$9.50	AG-1123	AG-1133	None
Avicta Complete Pak seed treatment	\$23.64	None	None	None
Aeris Complete Pak seed treatment	\$17.79	None	None	None
Harvest				
4 row harvester, first pick ^b	\$69.83	AG-1119, 1120, 1121, 1122	AG-1130	AG-1140, 1148
4 row harvester, second pick ^b	\$59.16	None	None	None
6 row harvester, (38" rows), first pick ^b	\$69.67	AG-1123 – 1129	AG-1131 – 1139	AG-1141 – 1147; 1149
6 row harvester, (38" rows), second pick ^b	\$59.02	None	None	None
Module Builder	\$26.39	All	All	All
Irrigation				
Furrow (3 ac. in) – additional \$24.94/ac fixed cost	\$8.42 per application	AG-1122 – 1123; 1125 – 1129	AG-1132 – 1137	AG-1141 – 1144
Center pivot (1 ac. in) – additional \$68.20/ac fixed cost	\$6.30 per application	AG-1120, 1121, 1124	AG-1131, 1138, 1139	AG-1145 – 1149
Furrow, stationary relift (3 ac. in) – additional \$24.42/ac fixed cost	\$5.03 per application	None	None	None

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

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



**UNIVERSITY OF ARKANSAS
DIVISION OF AGRICULTURE**

Cooperative Extension Service

**Estimating 2008 Costs of Production, Cotton
Northeast Boll Weevil Eradication Zone, Center Pivot, 8 Row,
Conventional Till, BG/RR
AG-1148 12-07**

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HARVEST AIDS					
Finish 6	pt	7.20	0.3300	2.38	_____
Def 6	pt	5.75	1.1600	6.67	_____
Dropp SC	oz	2.01	1.6000	3.23	_____
Ethephon	pint	2.93	1.6000	4.70	_____
FERTILIZERS					
0-60-120-10-1	acre	72.28	1.0000	72.29	_____
Urea, Solid (46% N)	lb	0.20	218.0000	43.60	_____
HERBICIDES					
Glyphosate Plus	pt	1.88	6.1000	11.47	_____
Clarity	pt	8.43	0.5000	4.22	_____
Gramoxone Extra	pt	3.75	0.2500	0.94	_____
Cotoran 4L	pt	4.64	1.6000	7.44	_____
Dual Magnum	pt	12.14	1.0000	12.14	_____
Caparol 4L	pt	3.64	0.7500	2.73	_____
Valor SX	lb	65.37	0.0562	3.68	_____
INSECTICIDES					
Centric 40WG	oz	4.16	2.0000	8.32	_____
Trimax	oz	3.79	1.5000	5.69	_____
Orthene 90S	lb	6.28	1.0000	6.28	_____
Bidrin 8L	oz	0.75	16.0000	12.13	_____
Pyrethroid	ac	2.60	2.0000	5.21	_____
CROP SEED					
Cottonseed BG/RR	thous	0.49	48.0000	23.90	_____
Cruiser Seed Trmnt	thous	0.18	48.0000	8.88	_____
Dynasty - Seed Trt	thous	0.13	48.0000	6.38	_____
TECHNOLOGY FEE					
BGRR Cott Tech Fee N	thous	1.07	48.0000	51.36	_____
Eradication Fee DZ	ac	14.00	1.0000	14.00	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.13	26.0000	3.41	_____
CUSTOM HIRE					
Cstm Ap Air - 3 gal	appl	4.00	1.0000	4.00	_____
Cstm Ap Air - 5 gal	appl	5.50	9.0000	49.50	_____
Insect Scouting	acre	10.00	1.0000	10.00	_____
OPERATOR LABOR					
Tractors	hour	9.45	1.3193	12.46	_____
Self-Propelled	hour	9.45	0.3150	2.99	_____
IRRIGATION LABOR					
Center pivot Irr.	hour	8.19	0.0568	0.49	_____
HAND LABOR					
Implements	hour	8.19	0.3784	3.09	_____
Self-Propelled	hour	8.19	0.2864	2.34	_____
DIESEL FUEL					
Tractors	gal	2.33	12.4905	29.09	_____
Self-Propelled	gal	2.33	3.7079	8.63	_____
Center pivot Irr.	gal	2.33	14.0000	32.62	_____
REPAIR & MAINTENANCE					
Implements	acre	9.17	1.0000	9.17	_____
Tractors	acre	4.86	1.0000	4.86	_____
Self-Propelled	acre	10.23	1.0000	10.23	_____
Center pivot Irr.	ac-in	1.39	7.0000	9.80	_____
INTEREST ON OP. CAP.	acre	20.10	1.0000	20.10	_____
TOTAL DIRECT EXPENSES				530.42	_____
FIXED EXPENSES					
Implements	acre	21.50	1.0000	21.50	_____
Tractors	acre	36.90	1.0000	36.90	_____
Self-Propelled	acre	49.14	1.0000	49.14	_____
Center pivot Irr.	each	8866.29	0.0076	68.20	_____
TOTAL FIXED EXPENSES				175.74	_____
TOTAL SPECIFIED EXPENSES				706.16	_____

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Table 2. Estimated resource use and costs for field operations, per acre AG-1148 NE, CP, 8R, Conv Till, BG/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	Nov	1.74	1.93	1.39	1.03	0.08	0.78				6.87
Heavy Disk	27'	MFWD 190	0.075	1.00	Nov	2.00	2.15	0.74	1.92	0.07	0.72				7.53
Chisel Plow(Folding)	24'	MFWD 190	0.076	1.00	Nov	2.03	2.18	0.66	1.44	0.07	0.72				7.03
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	Nov	1.47	1.57	0.33	1.72	0.04	0.44				5.53
Fert Appl-T&O	8R-27	MFWD 170	0.050	1.00	Nov	1.20	1.35			0.05	0.47				3.02
0-60-120-10-1	acre											1.0000	72.28	72.29	72.29
Disk Bed (Hipper)Fld	8R-38	MFWD 190	0.074	1.00	Nov	1.97	2.11	0.30	0.98	0.07	0.70				6.06
Sprayer(300-450Gal)	60'		0.017	1.00	Feb	0.30	0.58			0.02	0.24				1.12
Glyphosate Plus	pt											1.5000	1.88	2.82	2.82
Clarity	pt											0.5000	8.43	4.22	4.22
Sprayer(300-450Gal)	60'		0.017	0.25	Apr	0.08	0.15			0.00	0.06				0.29
Gramoxone Extra	pt											0.2500	3.75	0.94	0.94
Disk Bed (Hipper)Fld	8R-38	MFWD 190	0.074	1.00	Apr	1.97	2.11	0.30	0.98	0.07	0.70				6.06
Row Cond (Harrow)Rdg	26'	MFWD 190	0.057	1.00	Apr	1.52	1.63	0.14	0.71	0.05	0.54				4.54
Plant - Folding	8R-38	MFWD 170	0.074	1.00	May	1.78	2.01	0.95	2.26	0.14	1.31				8.31
Cottonseed BG/RR	thous											48.0000	0.49	23.90	23.90
BGRR Cott Tech Fee N	thous											48.0000	1.07	51.36	51.36
Cruiser Seed Trmnt	thous											48.0000	0.18	8.88	8.88
Dynasty - Seed Trt	thous											48.0000	0.13	6.38	6.38
Cotoran 4L	pt											1.6000	4.64	7.44	7.44
Fert Appl-T&O	8R-27	MFWD 170	0.050	1.00	May	1.20	1.35			0.05	0.47				3.02
Urea, Solid (46% N)	lb											109.0000	0.20	21.80	21.80
Sprayer(300-450Gal)	60'		0.017	1.00	May	0.30	0.58			0.02	0.24				1.12
Glyphosate Plus	pt											1.5000	1.88	2.82	2.82
Sprayer(300-450Gal)	60'		0.017	1.00	Jun	0.30	0.58			0.02	0.24				1.12
Glyphosate Plus	pt											1.5000	1.88	2.82	2.82
Dual Magnum	pt											1.0000	12.14	12.14	12.14
Fert Appl-T&O	8R-27	MFWD 170	0.050	1.00	Jun	1.20	1.35			0.05	0.47				3.02
Urea, Solid (46% N)	lb											109.0000	0.20	21.80	21.80
Spray (Direct/Hood)	8R-38	MFWD 170	0.066	1.00	Jun	1.60	1.81	0.47	0.69	0.10	0.90				5.47
Caparol 4L	pt											0.7500	3.64	2.73	2.73
Glyphosate Plus	pt											1.0000	1.88	1.88	1.88
Cstm Ap Air - 3 gal	appl			1.00	Jun							1.0000	4.00	4.00	4.00
Centric 40WG	oz											2.0000	4.16	8.32	8.32
Mepiquat Chloride	oz											4.0000	0.13	0.52	0.52
Spray (Band)	40' Fold	MFWD 170	0.042	0.60	Jun	0.61	0.69	0.07	0.10	0.03	0.34				1.81
Valor SX	lb											0.0562	65.37	3.68	3.68
Glyphosate Plus	pt											0.6000	1.88	1.13	1.13
Cstm Ap Air - 5 gal	appl			1.00	Jul							1.0000	5.50	5.50	5.50
Trimax	oz											1.5000	3.79	5.69	5.69
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	6.28	3.14	3.14
Cstm Ap Air - 5 gal	appl			1.00	Jul							1.0000	5.50	5.50	5.50
Bidrin 8L	oz											8.0000	0.75	6.06	6.06
Mepiquat Chloride	oz											10.0000	0.13	1.31	1.31
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	6.28	3.14	3.14

Cstm Ap Air - 5 gal	appl		1.00	Jul							1.0000	5.50	5.50	5.50
Pyrethroid	ac										1.0000	2.60	2.61	2.61
Mepiquat Chloride	oz										12.0000	0.13	1.57	1.57
Cstm Ap Air - 5 gal	appl		1.00	Aug							1.0000	5.50	5.50	5.50
Bidrin 8L	oz										8.0000	0.75	6.06	6.06
Cstm Ap Air - 5 gal	appl		1.00	Aug							1.0000	5.50	5.50	5.50
Pyrethroid	ac										1.0000	2.60	2.61	2.61
Cstm Ap Air - 5 gal	appl		1.00	Sep							1.0000	5.50	5.50	5.50
Finish 6	pt										0.3300	7.20	2.38	2.38
Def 6	pt										0.5000	5.75	2.88	2.88
Dropp SC	oz										1.6000	2.01	3.23	3.23
Cstm Ap Air - 5 gal	appl		1.00	Sep							1.0000	5.50	5.50	5.50
Ethephon	pint										1.6000	2.93	4.70	4.70
Def 6	pt										0.6600	5.75	3.80	3.80
Boll Buggy-1st pick	4R-38(255)MFWD 190	0.257	1.00	Oct	6.83	7.33	1.67	4.23	0.25	2.44				22.50
Cotton Picker-1st-BB	4R-38(255)	0.257			17.88	47.25			0.51	4.55				69.68
Module Builder-1st	4R-38(255)MFWD 190	0.257	1.00	Oct	6.83	7.33	2.15	5.44	0.51	4.55				26.30
Center pivot Irr.	each		1.00	Jun				68.20			0.0076			68.20
Application 1	ac-in						6.06		0.00	0.07	1.0000			6.13
Application 2	ac-in						6.06		0.00	0.07	1.0000			6.13
Application 3	ac-in						6.06		0.00	0.07	1.0000			6.13
Application 4	ac-in						6.06		0.00	0.07	1.0000			6.13
Application 5	ac-in						6.06		0.00	0.07	1.0000			6.13
Application 6	ac-in						6.06		0.00	0.07	1.0000			6.13
Application 7	ac-in						6.06		0.00	0.07	1.0000			6.13
TOTALS					52.81	86.04	51.59	89.70	2.35	21.37			384.55	686.06
INTEREST ON OPERATING CAPITAL														20.10
UNALLOCATED LABOR														0.00
TOTAL SPECIFIED COST														706.16

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	Southeast/Central Eradication Zone	Ridge Eradication Zone	Northeast Eradication Zone
Bud worm/boll worm control				
Lannate 2.4 SL (1 gal./ 4 acres)	\$19.96	None	None	None
Larvin 3.2 (1 gal./ 3.5 acres)	\$24.00	None	None	None
Tracer (1 gal./ 64 acres)	\$18.52	None	None	None
Tracer (1/2 rate) + Pyretheroid	\$14.80	None	None	None
Red spider mite control				
Kelthane (1.25 qts)	\$17.74	None	None	None
Zeal (0.83 oz)	\$20.86	None	None	None
Zephyr (5 oz)	\$27.52	None	None	None
Herbicide applications				
Staple LX banded application (.75 oz)	\$8.15	None	None	None
Prowl 3.3 EC, incorporated (1.2 pts)	\$9.30	None	None	None
Treflan HFP, incorporated (.75 pts)	\$9.74	None	None	None
Treflan HFP, incorporated (1.5 pts)	\$11.64	None	None	None
Row cultivate plus directed spray	\$6.78 + material	None	None	None
Defoliation for Irrigated Cotton	\$25.97	AG-1120 – 1129	AG-1131 – 1139	AG-1141 – 1149
Defoliation for Dryland Cotton	\$21.62	AG-1119	AG-1130	AG-1140
Cruiser seed treatment	\$9.25	AG-1119 – 1122; 1124 – 1128	AG-1130 – 1132; 1134 – 1138	AG-1140 – 1145; 1147 – 1179
Gaicho seed treatment	\$9.50	AG-1123	AG-1133	None
Avicta Complete Pak seed treatment	\$23.64	None	None	None
Aeris Complete Pak seed treatment	\$17.79	None	None	None
Harvest				
4 row harvester, first pick ^b	\$69.83	AG-1119, 1120, 1121, 1122	AG-1130	AG-1140, 1148
4 row harvester, second pick ^b	\$59.16	None	None	None
6 row harvester, (38" rows), first pick ^b	\$69.67	AG-1123 – 1129	AG-1131 – 1139	AG-1141 – 1147; 1149
6 row harvester, (38" rows), second pick ^b	\$59.02	None	None	None
Module Builder	\$26.39	All	All	All
Irrigation				
Furrow (3 ac. in) – additional \$24.94/ac fixed cost	\$8.42 per application	AG-1122 – 1123; 1125 – 1129	AG-1132 – 1137	AG-1141 – 1144
Center pivot (1 ac. in) – additional \$68.20/ac fixed cost	\$6.30 per application	AG-1120, 1121, 1124	AG-1131, 1138, 1139	AG-1145 – 1149
Furrow, stationary relift (3 ac. in) – additional \$24.42/ac fixed cost	\$5.03 per application	None	None	None

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

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



Estimating 2008 Costs of Production, Cotton
Northeast Boll Weevil Eradication Zone, Center Pivot, 12 Row,
No-Till, BGII/RRFlex
AG-1149 12-07

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HARVEST AIDS					
Def 6	pt	5.75	1.1600	6.67	_____
Finish 6	pt	7.20	0.3300	2.38	_____
Dropp SC	oz	2.01	1.6000	3.23	_____
Ethephon	pint	2.93	1.6000	4.70	_____
FERTILIZERS					
0-60-120-10-1	acre	72.28	1.0000	72.29	_____
Urea, Solid (46% N)	lb	0.20	218.0000	43.60	_____
HERBICIDES					
Glyphosate Plus	pt	1.88	4.6000	8.65	_____
Clarity	pt	8.43	0.5000	4.22	_____
Gramoxone Extra	pt	3.75	0.2500	0.94	_____
Cotoran 4L	pt	4.64	1.6000	7.44	_____
Caparol 4L	pt	3.64	0.7500	2.73	_____
Dual Magnum	pt	12.14	1.0000	12.14	_____
Valor SX	lb	65.37	0.0562	3.68	_____
INSECTICIDES					
Baythroid 2	oz	2.23	0.2000	0.45	_____
Centric 40WG	oz	4.16	2.0000	8.32	_____
Trimax	oz	3.79	1.5000	5.69	_____
Orthene 90S	lb	6.28	1.0000	6.28	_____
Bidrin 8L	oz	0.75	16.0000	12.13	_____
Pyrethroid	ac	2.60	2.0000	5.21	_____
CROP SEED					
Cottonsd BGII/RRFlex	thous	0.49	48.0000	23.66	_____
Cruiser Seed Trmnt	thous	0.18	48.0000	8.88	_____
Dynasty - Seed Trt	thous	0.13	48.0000	6.38	_____
TECHNOLOGY FEE					
BGII/RRF Tech N	thous	1.47	48.0000	70.56	_____
Eradication Fee DZ	ac	14.00	1.0000	14.00	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.13	26.0000	3.41	_____
CUSTOM HIRE					
Cstm Ap Air - 3 gal	appl	4.00	1.0000	4.00	_____
Insect Scouting	acre	10.00	1.0000	10.00	_____
Cstm Ap Air - 5 gal	appl	5.50	9.0000	49.50	_____
OPERATOR LABOR					
Tractors	hour	9.45	0.6414	6.05	_____
Self-Propelled	hour	9.45	0.2104	1.99	_____
IRRIGATION LABOR					
Center pivot Irr.	hour	8.19	0.0568	0.49	_____
HAND LABOR					
Implements	hour	8.19	0.2346	1.92	_____
Self-Propelled	hour	8.19	0.1914	1.57	_____
DIESEL FUEL					
Tractors	gal	2.33	6.1478	14.33	_____
Self-Propelled	gal	2.33	3.4973	8.14	_____
Center pivot Irr.	gal	2.33	14.0000	32.62	_____
REPAIR & MAINTENANCE					
Implements	acre	5.07	1.0000	5.07	_____
Tractors	acre	2.35	1.0000	2.35	_____
Self-Propelled	acre	10.71	1.0000	10.71	_____
Center pivot Irr.	ac-in	1.39	7.0000	9.80	_____
INTEREST ON OP. CAP.	acre	17.44	1.0000	17.44	_____
TOTAL DIRECT EXPENSES				513.62	_____
FIXED EXPENSES					
Implements	acre	10.59	1.0000	10.59	_____
Tractors	acre	18.00	1.0000	18.00	_____
Self-Propelled	acre	51.77	1.0000	51.77	_____
Center pivot Irr.	each	8866.29	0.0076	68.20	_____
TOTAL FIXED EXPENSES				148.56	_____
TOTAL SPECIFIED EXPENSES				662.18	_____

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Table 2. Estimated resource use and costs for field operations, per acre AG-1149 NE, CP, 12R, No-Till, BGII/RRFlex, 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	Nov	1.74	1.93	1.39	1.03	0.08	0.78				6.87
Sprayer(600-825Gal)	90'		0.011	1.00	Feb	0.39	0.88			0.01	0.16				1.43
Glyphosate Plus	pt											1.5000	1.88	2.82	2.82
Clarity	pt											0.5000	8.43	4.22	4.22
Fert Appl T&O	12-R 40	MFWD 190	0.033	1.00	Mar	0.88	0.95			0.03	0.31				2.14
0-60-120-10-1	acre											1.0000	72.28	72.29	72.29
Sprayer(600-825Gal)	90'		0.011	0.25	Apr	0.10	0.22			0.00	0.04				0.36
Gramoxone Extra	pt											0.2500	3.75	0.94	0.94
Row Cond (Harrow)Fld	38'	MFWD 225	0.039	1.00	Apr	1.23	1.32	0.16	0.85	0.03	0.37				3.93
Plant - Folding	12R-38	MFWD 190	0.049	1.00	May	1.32	1.41	0.90	2.14	0.09	0.88				6.65
Cottonsd BGII/RRFlex	thous											48.0000	0.49	23.66	23.66
BGII/RRF Tech N	thous											48.0000	1.47	70.56	70.56
Cruiser Seed Trmnt	thous											48.0000	0.18	8.88	8.88
Cotoran 4L	pt											1.6000	4.64	7.44	7.44
Baythroid 2	oz											0.2000	2.23	0.45	0.45
Dynasty - Seed Trt	thous											48.0000	0.13	6.38	6.38
Fert Appl T&O	12-R 40	MFWD 190	0.033	1.00	May	0.88	0.95			0.03	0.31				2.14
Urea, Solid (46% N)	lb											109.0000	0.20	21.80	21.80
Sprayer(600-825Gal)	90'		0.011	1.00	May	0.39	0.88			0.01	0.16				1.43
Glyphosate Plus	pt											1.5000	1.88	2.82	2.82
Sprayer(600-825Gal)	90'		0.011	1.00	May	0.39	0.88			0.01	0.16				1.43
Glyphosate Plus	pt											1.0000	1.88	1.88	1.88
Caparol 4L	pt											0.7500	3.64	2.73	2.73
Dual Magnum	pt											1.0000	12.14	12.14	12.14
Fert Appl T&O	12-R 40	MFWD 190	0.033	1.00	Jun	0.88	0.95			0.03	0.31				2.14
Urea, Solid (46% N)	lb											109.0000	0.20	21.80	21.80
Cstm Ap Air - 3 gal	appl			1.00	Jun							1.0000	4.00	4.00	4.00
Centric 40WG	oz											2.0000	4.16	8.32	8.32
Mepiquat Chloride	oz											4.0000	0.13	0.52	0.52
Spray (Band)	40' Fold	MFWD 170	0.042	0.60	Jun	0.61	0.69	0.07	0.10	0.03	0.34				1.81
Valor SX	lb											0.0562	65.37	3.68	3.68
Glyphosate Plus	pt											0.6000	1.88	1.13	1.13
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
Trimax	oz											1.5000	3.79	5.69	5.69
Cstm Ap Air - 5 gal	appl			1.00	Jul							1.0000	5.50	5.50	5.50
Orthene 90S	lb											0.5000	6.28	3.14	3.14
Cstm Ap Air - 5 gal	appl			1.00	Jul							1.0000	5.50	5.50	5.50
Bidrin 8L	oz											8.0000	0.75	6.06	6.06
Mepiquat Chloride	oz											10.0000	0.13	1.31	1.31
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	6.28	3.14	3.14
Cstm Ap Air - 5 gal	appl			1.00	Jul							1.0000	5.50	5.50	5.50
Pyrethroid	ac											1.0000	2.60	2.61	2.61
Cstm Ap Air - 5 gal	appl			1.00	Aug							1.0000	5.50	5.50	5.50
Bidrin 8L	oz											8.0000	0.75	6.06	6.06
Mepiquat Chloride	oz											12.0000	0.13	1.57	1.57
Cstm Ap Air - 5 gal	appl			1.00	Aug							1.0000	5.50	5.50	5.50

Pyrethroid	ac										1.0000	2.60	2.61	2.61
Cstm Ap Air - 5 gal	appl	1.00	Sep								1.0000	5.50	5.50	5.50
Def 6	pt										0.5000	5.75	2.88	2.88
Finish 6	pt										0.3300	7.20	2.38	2.38
Dropp SC	oz										1.6000	2.01	3.23	3.23
Cstm Ap Air - 5 gal	appl	1.00	Sep								1.0000	5.50	5.50	5.50
Def 6	pt										0.6600	5.75	3.80	3.80
Ethephon	pint										1.6000	2.93	4.70	4.70
Boll Buggy-1st pick	6R-38(325)MFWD 190	0.172	1.00	Oct	4.57	4.90	1.12	2.83	0.17	1.63				15.05
Cotton Picker-1st-BB	6R-38(350)	0.172			17.58	48.91			0.34	3.04				69.53
Module Builder-1st	6R-38(325)MFWD 190	0.172	1.00	Oct	4.57	4.90	1.43	3.64	0.34	3.04				17.58
Center pivot Irr.	each	1.00	Jun					68.20			0.0076			68.20
Application 1	ac-in						6.06		0.00	0.07	1.0000			6.13
Application 2	ac-in						6.06		0.00	0.07	1.0000			6.13
Application 3	ac-in						6.06		0.00	0.07	1.0000			6.13
Application 4	ac-in						6.06		0.00	0.07	1.0000			6.13
Application 5	ac-in						6.06		0.00	0.07	1.0000			6.13
Application 6	ac-in						6.06		0.00	0.07	1.0000			6.13
Application 7	ac-in						6.06		0.00	0.07	1.0000			6.13
TOTALS					35.53	69.77	47.49	78.79	1.33	12.02			401.14	644.74
INTEREST ON OPERATING CAPITAL														17.44
UNALLOCATED LABOR														0.00
TOTAL SPECIFIED COST														662.18

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.

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

Production Practice	Cost per acre^a	Southeast/Central Eradication Zone	Ridge Eradication Zone	Northeast Eradication Zone
Bud worm/boll worm control				
Lannate 2.4 SL (1 gal./ 4 acres)	\$19.96	None	None	None
Larvin 3.2 (1 gal./ 3.5 acres)	\$24.00	None	None	None
Tracer (1 gal./ 64 acres)	\$18.52	None	None	None
Tracer (1/2 rate) + Pyretheroid	\$14.80	None	None	None
Red spider mite control				
Kelthane (1.25 qts)	\$17.74	None	None	None
Zeal (0.83 oz)	\$20.86	None	None	None
Zephyr (5 oz)	\$27.52	None	None	None
Herbicide applications				
Staple LX banded application (.75 oz)	\$8.15	None	None	None
Prowl 3.3 EC, incorporated (1.2 pts)	\$9.30	None	None	None
Treflan HFP, incorporated (.75 pts)	\$9.74	None	None	None
Treflan HFP, incorporated (1.5 pts)	\$11.64	None	None	None
Row cultivate plus directed spray	\$6.78 + material	None	None	None
Defoliation for Irrigated Cotton	\$25.97	AG-1120 – 1129	AG-1131 – 1139	AG-1141 – 1149
Defoliation for Dryland Cotton	\$21.62	AG-1119	AG-1130	AG-1140
Cruiser seed treatment	\$9.25	AG-1119 – 1122; 1124 – 1128	AG-1130 – 1132; 1134 – 1138	AG-1140 – 1145; 1147 – 1179
Gaicho seed treatment	\$9.50	AG-1123	AG-1133	None
Avicta Complete Pak seed treatment	\$23.64	None	None	None
Aeris Complete Pak seed treatment	\$17.79	None	None	None
Harvest				
4 row harvester, first pick ^b	\$69.83	AG-1119, 1120, 1121, 1122	AG-1130	AG-1140, 1148
4 row harvester, second pick ^b	\$59.16	None	None	None
6 row harvester, (38" rows), first pick ^b	\$69.67	AG-1123 – 1129	AG-1131 – 1139	AG-1141 – 1147; 1149
6 row harvester, (38" rows), second pick ^b	\$59.02	None	None	None
Module Builder	\$26.39	All	All	All
Irrigation				
Furrow (3 ac. in) – additional \$24.94/ac fixed cost	\$8.42 per application	AG-1122 – 1123; 1125 – 1129	AG-1132 – 1137	AG-1141 – 1144
Center pivot (1 ac. in) – additional \$68.20/ac fixed cost	\$6.30 per application	AG-1120, 1121, 1124	AG-1131, 1138, 1139	AG-1145 – 1149
Furrow, stationary relift (3 ac. in) – additional \$24.42/ac fixed cost	\$5.03 per application	None	None	None

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

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