



**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	_____

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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
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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

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.