



UNIVERSITY OF ARKANSAS  
DIVISION OF AGRICULTURE  
Cooperative Extension Service

## Estimating 2000 Costs of Production

Cotton, Non-Irrigated, Loamy Soils, Northeast Arkansas, 2000

Ag-578-12-99

Kelly J. Bryant, Area Extension Specialist - Farm Management

Tony E. Windham, Extension Economist - Management

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CROP SEED					
Cotton seed	lb	0.87	12.0000	10.44	_____
CUSTOM WORK					
Cstm ap grd fert dry	acre	3.50	1.0000	3.50	_____
Cstm ap grd fert liq	acre	3.50	1.0000	3.50	_____
Cstm ap air 3 gal	acre	3.25	2.0000	6.50	_____
Cotton insect scout	acre	6.50	1.0000	6.50	_____
Cstm ap air 5 gal	acre	4.00	3.0000	12.00	_____
Cstm ap air defolant	acre	4.50	1.0000	4.50	_____
FERTILIZER & LIME					
P205	unit	0.22	23.0000	5.24	_____
K20	unit	0.12	48.0000	6.19	_____
Boron	unit	3.30	1.0000	3.30	_____
N (actual)	unit	0.21	75.0000	16.27	_____
HARVEST AIDS					
Def or Folex	pint	5.21	1.0000	5.21	_____
Dropp	lb	56.00	0.1000	5.60	_____
HERBICIDES					
Treflan 4EC	pint	3.76	1.2500	4.70	_____
Cotoran 4L	pint	4.20	1.0000	4.20	_____
Staple	ounce	20.00	0.3000	6.00	_____
Caparol 4L	pint	3.50	0.5000	1.75	_____
MSMA	pint	2.25	2.6600	5.98	_____
Karmex DF	lb	4.43	0.2500	1.10	_____
INSECTICIDES					
Bidrin 8EC	oz	0.70	4.8000	3.36	_____
Vydate C-LV	pint	7.55	0.5000	3.77	_____
Orthene 90S	lb	8.55	0.3300	2.82	_____
Pyrethroid	acre	6.32	2.0000	12.64	_____
OPERATOR LABOR					
Implements	hour	6.50	2.3008	14.95	_____
Self-Propelled Eq.	hour	6.50	1.3892	9.03	_____
DIESEL FUEL					
Tractors	gal	0.70	19.6248	13.73	_____
Self-Propelled Eq.	gal	0.70	5.6197	3.93	_____
REPAIR & MAINTENANCE					
Implements	acre	7.14	1.0000	7.14	_____
Tractors	acre	15.74	1.0000	15.74	_____
Self-Propelled Eq.	acre	24.31	1.0000	24.31	_____
INTEREST ON OP. CAP.	acre	8.36	1.0000	8.36	_____
TOTAL DIRECT EXPENSES				232.32	_____
FIXED EXPENSES					
Implements	acre	16.59	1.0000	16.59	_____
Tractors	acre	24.74	1.0000	24.74	_____
Self-Propelled Eq.	acre	35.99	1.0000	35.99	_____
TOTAL FIXED EXPENSES				77.33	_____
TOTAL SPECIFIED EXPENSES				309.65	_____

Does not include costs for land, overhead and management.

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**Table 2. Estimated resource use and costs for field operations, per acre, Cotton, Non-Irrigated, Loamy Soils, Northeast Arkansas, 2000**

OPERATION/ OPERATING INPUT	SIZE/ UNIT	TRACTOR SIZE	PERF RATE	TIMES OVER	MTH	TRACTOR COST		EQUIP COST		ALLOC LABOR		OPERATING INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Disk, medium cut	26.41'	180	0.082	1.00	Mar	1.48	1.28	0.44	1.11	0.098	0.63				4.96
Subsoiler, 9 shank	15'	200	0.216	1.00	Mar	4.33	3.66	0.45	1.17	0.259	1.68				11.31
Cstm ap grd fert dry	acre			1.00	Apr							1.0000	3.50	3.50	3.50
P205	unit											23.0000	0.22	5.24	5.24
K20	unit											48.0000	0.12	6.19	6.19
Boron	unit											1.0000	3.30	3.30	3.30
Field cultivator	25.5'	180	0.054	1.00	Apr	0.97	0.84	0.20	0.47	0.064	0.42				2.92
Triple K w/ sprayer	26.67'	180	0.086	1.00	Apr	1.55	1.34	0.49	1.00	0.129	0.83				5.24
Treflan 4EC	pint											1.2500	3.76	4.70	4.70
Water tank	1000 gal	170	0.131	0.06	Apr	0.07	0.05	0.00	0.01	0.009	0.06				0.20
Disk bedder, 8r@38"	25.33'	180	0.070	1.00	Apr	1.26	1.09	0.17	0.39	0.084	0.54				3.48
Disk bedder, 8r@38"	25.33'	180	0.070	1.00	Apr	1.26	1.09	0.17	0.39	0.084	0.54				3.48
Bed conditioner	26.67'	180	0.052	1.00	May	0.94	0.81	0.18	0.43	0.062	0.40				2.77
Plant+spr dir 8r@38"	25.33'	180	0.100	1.00	May	1.80	1.56	0.80	1.96	0.150	0.97				7.12
Cotton seed	lb											12.0000	0.87	10.44	10.44
Cotoran 4L	pint											1.0000	4.20	4.20	4.20
Staple	ounce											0.3000	20.00	6.00	6.00
Water tank	1000 gal	170	0.131	0.06	May	0.07	0.05	0.00	0.01	0.009	0.06				0.20
Cstm ap grd fert liq	acre			1.00	May							1.0000	3.50	3.50	3.50
N (actual)	unit											75.0000	0.21	16.27	16.27
Row cult + sprdir38"	25.33'	145	0.102	1.00	May	1.40	1.12	0.40	0.73	0.153	0.99				4.65
Bidrin 8EC	oz											1.6000	0.70	1.12	1.12
Water tank	1000 gal	170	0.131	0.05	May	0.06	0.04	0.00	0.00	0.007	0.05				0.17
Row cult 8r@38"	25.33'	145	0.102	1.00	May	1.40	1.12	0.29	0.53	0.122	0.79				4.15
Cstm ap air 3 gal	acre			1.00	Jun							1.0000	3.25	3.25	3.25
Bidrin 8EC	oz											3.2000	0.70	2.24	2.24
Row cult + sprdir38"	25.33'	145	0.102	1.00	Jun	1.40	1.12	0.40	0.73	0.153	0.99				4.65
Caparol 4L	pint											0.5000	3.50	1.75	1.75
MSMA	pint											1.3300	2.25	2.99	2.99
Water tank	1000 gal	170	0.131	0.05	Jun	0.06	0.04	0.00	0.00	0.007	0.05				0.17
Cstm ap air 3 gal	acre			1.00	Jun							1.0000	3.25	3.25	3.25
Vydate C-LV	pint											0.5000	7.55	3.77	3.77
Row cult + sprdir38"	25.33'	145	0.102	1.00	Jun	1.40	1.12	0.40	0.73	0.153	0.99				4.65
Karmex DF	lb											0.2500	4.43	1.10	1.10
MSMA	pint											1.3300	2.25	2.99	2.99
Water tank	1000 gal	170	0.131	0.05	Jun	0.06	0.04	0.00	0.00	0.007	0.05				0.17
Cotton insect scout	acre			1.00	Jun							1.0000	6.50	6.50	6.50
Cstm ap air 5 gal	acre			1.00	Jul							1.0000	4.00	4.00	4.00
Orthene 90S	lb											0.3300	8.55	2.82	2.82
Cstm ap air 5 gal	acre			1.00	Jul							1.0000	4.00	4.00	4.00
Pyrethroid	acre											1.0000	6.32	6.32	6.32
Cstm ap air 5 gal	acre			1.00	Aug							1.0000	4.00	4.00	4.00
Pyrethroid	acre											1.0000	6.32	6.32	6.32

**Table 2. Estimated resource use and costs for field operations, per acre, Cotton, Non-Irrigated, Loamy Soils, Northeast Arkansas, 2000 (continued)**

OPERATION/ OPERATING INPUT	SIZE/ UNIT	TRACTOR SIZE	PERF RATE	TIMES OVER	MTH	TRACTOR COST		EQUIP COST		ALLOC LABOR		OPERATING INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Cstm ap air defolant	acre			1.00	Sep							1.0000	4.50	4.50	4.50
Def or Folex	pint											1.0000	5.21	5.21	5.21
Drapp	lb											0.1000	56.00	5.60	5.60
Boll Buggy	4 bale	160	0.220	1.00	Oct	3.29	2.69	0.95	2.77	0.264	1.71				11.43
Cotton picker-4r,1st	12.67'		0.294					20.50	26.12	1.008	6.55				53.18
Module builder	32'	180	0.220	1.00	Oct	3.98	3.44	1.02	2.99	0.264	1.71				13.16
Cotton picker-4r,2nd	12.67'		0.222	0.50	Oct			7.74	9.87	0.380	2.47				20.09
Boll Buggy	4 bale	160	0.220	0.10	Oct	0.32	0.26	0.09	0.27	0.026	0.17				1.14
Module builder	32'	180	0.220	0.10	Oct	0.39	0.34	0.10	0.29	0.026	0.17				1.31
Stalk cutter	15'	145	0.137	1.00	Nov	1.88	1.51	0.50	0.50	0.164	1.06				5.47
TOTALS						29.48	24.74	35.39	52.59	3.690	23.98			135.10	301.29
INTEREST ON OPERATING CAPITAL															8.36
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															309.65

Does not include costs for land, overhead and management.

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 name, not 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*	Budget No.
Bud worm/boil worm control		
Lannate (1 gal./ 4 acres)	\$11.56	AG 564-66, 568, 572-74, 576
Larvin (1 gal./ 3.5 acres)	\$15.37	AG 563
Tracer (1 gal./ 64 acres)	\$12.30	AG 563-66, 568, 571-74, 576
Tracer (1/2 rate) + Pyretheroid	\$12.47	AG 563-66, 568, 571-74, 576
Defoliation for once over harvest	\$36.72	AG 564,66,68,72,74,76,79
Defoliation for standard harvest (50% scrap)	\$34.35	AG 565,67,69,70,73,75,81
Foliar Nitrogen, 23%	\$0.50/gal.+App.	None
Flail Shredder, 20'	\$7.11	AG 566, 69, 70, 74
Gaucho seed treatment	\$0.97/lb. of seed	AG 565, 73, 79,82
Harvest 2 row harvester, first pick	\$60.22	None
2 row harvester, second pick	\$43.36	None
4 row harvester, first pick	\$53.18	All
4 row harvester, second pick	\$40.18	AG 565,67,69,70,73,75,81
5 row harvester, (38" rows), first pick	\$48.59	None
5 row harvester, (38" rows), second pick	\$36.71	None
Irrigation, furrow	\$3.21/ac inch	Most
Irrigation, center pivot	\$11.02/ac inch	AG 565, 73, 80
Module Builder	\$11.72	All
Row cultivate plus directed spray	\$4.65 + material	All
Scouting, once a week	\$3.50	None
Staple herbicide banded application (0.6 oz)	\$12.00	Most
Treflan, Triple K application (1.25 pints)	\$9.94	AG 579, 582
Treflan, Incorporator application (0.75 pints)	\$6.41	Most

\* Machinery costs per acre assume that each machine is fully utilized on the farm.

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Ag-579-12-99

Kelly J. Bryant, Area Extension Specialist - Farm Management  
Tony E. Windham, Extension Economist - Management

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CROP SEED					
Cotton seed	lb	0.87	12.0000	10.44	_____
CUSTOM WORK					
Cstm ap grd fert dry	acre	3.50	1.0000	3.50	_____
Cstm ap grd fert liq	acre	3.50	2.0000	7.00	_____
Cotton insect scout	acre	6.50	1.0000	6.50	_____
Cstm ap air 3 gal	acre	3.25	1.0000	3.25	_____
Cstm ap air 5 gal	acre	4.00	3.0000	12.00	_____
Cstm ap air defolant	acre	4.50	2.0000	9.00	_____
FERTILIZER & LIME					
P205	unit	0.22	23.0000	5.24	_____
K20	unit	0.12	48.0000	6.19	_____
Boron	unit	3.30	1.0000	3.30	_____
N (actual)	unit	0.21	90.0000	19.53	_____
FUNGICIDE & SEED TR.					
Terraclor SE granul	lb	2.19	7.0000	15.33	_____
GROWTH REGULATORS					
Pix Plus	oz	0.80	26.0000	20.80	_____
HARVEST AIDS					
Prep	pint	6.15	2.3300	14.32	_____
Def or Folex	pint	5.21	1.2500	6.51	_____
* Dropp	lb	56.00	0.1000	5.60	_____
HERBICIDES					
Treflan 4EC	pint	3.76	1.2500	4.70	_____
Cotoran 4L	pint	4.20	1.0000	4.20	_____
Staple	ounce	20.00	0.6000	12.00	_____
Caparol 4L	pint	3.50	1.0000	3.50	_____
MSMA	pint	2.25	3.9900	8.97	_____
Goal 2XL	pt	11.75	0.5000	5.87	_____
INSECTICIDES					
Gaucho	lb	0.97	12.0000	11.64	_____
Vydate C-LV	pint	7.55	0.2500	1.88	_____
Dimetholate	pint	4.05	0.6000	2.43	_____
Pyrethroid	acre	6.32	3.0000	18.96	_____
MISC. IRRIGATION					
Flex irrigation tube	acre	5.75	1.0000	5.75	_____
OPERATOR LABOR					
Implements	hour	6.50	2.3495	15.27	_____
Self-Propelled Eq.	hour	6.50	1.0083	6.55	_____
IRRIGATION LABOR					
Furrow irrg - cotton	hour	6.50	1.5750	10.23	_____
DIESEL FUEL					
Tractors	gal	0.70	18.8799	13.21	_____
Self-Propelled Eq.	gal	0.70	4.0788	2.85	_____
Furrow irrg - cotton	gal	0.70	9.6495	6.75	_____
REPAIR & MAINTENANCE					
Implements	acre	7.22	1.0000	7.22	_____
Tractors	acre	15.29	1.0000	15.29	_____
Self-Propelled Eq.	acre	17.64	1.0000	17.64	_____
Furrow irrg - cotton	acre	2.73	1.0000	2.73	_____
INTEREST ON OP. CAP.	acre	10.86	1.0000	10.86	_____
TOTAL DIRECT EXPENSES				337.09	_____
FIXED EXPENSES					
Implements	acre	15.69	1.0000	15.69	_____
Tractors	acre	24.07	1.0000	24.07	_____
Self-Propelled Eq.	acre	26.12	1.0000	26.12	_____
Furrow irrg - cotton	acre	13.96	1.0000	13.96	_____
TOTAL FIXED EXPENSES				79.86	_____
TOTAL SPECIFIED EXPENSES				416.95	_____

Does not include costs for land, overhead and management.

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**Table 2. Estimated resource use and costs for field operations, per acre, Cotton, Furrow Irrigated, Loamy Soils, Northeast Arkansas, 2000**

OPERATION/ OPERATING INPUT	SIZE/ UNIT	TRACTOR SIZE	PERF RATE	TIMES OVER	MTH	TRACTOR COST		EQUIP COST		ALLOC LABOR		OPERATING INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Stalk cutter	15'	145	0.137	1.00	Oct	1.88	1.51	0.50	0.50	0.164	1.06				5.47
Disk, medium cut	26.41'	180	0.082	1.00	Oct	1.48	1.28	0.44	1.11	0.098	0.63				4.96
Chisel plow	21'	180	0.092	1.00	Oct	1.66	1.44	0.17	0.36	0.110	0.71				4.36
Cstm ap grd fert dry acre				1.00	Nov							1.0000	3.50	3.50	3.50
P205	unit											23.0000	0.22	5.24	5.24
K20	unit											48.0000	0.12	6.19	6.19
Boron	unit											1.0000	3.30	3.30	3.30
Field cultivator	25.5'	180	0.054	1.00	Nov	0.97	0.84	0.20	0.47	0.064	0.42				2.92
Disk bedder, 8r@38"	25.33'	180	0.070	1.00	Nov	1.26	1.09	0.17	0.39	0.084	0.54				3.48
Disk bedder, 8r@38"	25.33'	180	0.070	1.00	Apr	1.26	1.09	0.17	0.39	0.084	0.54				3.48
Bed conditioner	26.67'	180	0.052	1.00	Apr	0.94	0.81	0.18	0.43	0.062	0.40				2.77
Triple K w/ sprayer	26.67'	180	0.086	1.00	May	1.55	1.34	0.49	1.00	0.129	0.83				5.24
Treflan 4EC	pint											1.2500	3.76	4.70	4.70
Water tank	1000 gal	170	0.131	0.06	May	0.07	0.05	0.00	0.01	0.009	0.06				0.20
Plntr hbox + granule	25.33'	180	0.100	1.00	May	1.80	1.56	0.95	1.70	0.230	1.49				7.52
Cotton seed	lb											12.0000	0.87	10.44	10.44
Gaucho	lb											12.0000	0.97	11.64	11.64
Terraclor SE granul	lb											7.0000	2.19	15.33	15.33
Cotoran 4L	pint											1.0000	4.20	4.20	4.20
Water tank	1000 gal	170	0.131	0.05	May	0.06	0.04	0.00	0.00	0.007	0.05				0.17
Cstm ap grd fert liq acre				1.00	May							1.0000	3.50	3.50	3.50
N (actual)	unit											45.0000	0.21	9.76	9.76
Row cult 8r@38"	25.33'	145	0.102	1.00	May	1.40	1.12	0.29	0.53	0.122	0.79				4.15
Cstm ap grd fert liq acre				1.00	Jun							1.0000	3.50	3.50	3.50
N (actual)	unit											45.0000	0.21	9.76	9.76
Row cult + sprdir38"	25.33'	180	0.102	1.00	Jun	1.84	1.59	0.40	0.73	0.153	0.99				5.56
Staple	ounce											0.6000	20.00	12.00	12.00
Water tank	1000 gal	170	0.131	0.05	Jun	0.06	0.04	0.00	0.00	0.007	0.05				0.17
Row cult + sprdir38"	25.33'	180	0.102	1.00	Jun	1.84	1.59	0.40	0.73	0.153	0.99				5.56
Caparol 4L	pint											0.5000	3.50	1.75	1.75
MSMA	pint											1.3300	2.25	2.99	2.99
Water tank	1000 gal	170	0.131	0.05	Jun	0.06	0.04	0.00	0.00	0.007	0.05				0.17
Row cult + sprdir38"	25.33'	145	0.102	1.00	Jun	1.40	1.12	0.40	0.73	0.153	0.99				4.65
Caparol 4L	pint											0.5000	3.50	1.75	1.75
MSMA	pint											1.3300	2.25	2.99	2.99
Vydate C-LV	pint											0.2500	7.55	1.88	1.88
Pix Plus	oz											4.0000	0.80	3.20	3.20
Water tank	1000 gal	170	0.131	0.05	Jun	0.06	0.04	0.00	0.00	0.007	0.05				0.17
Row cult + sprdir38"	25.33'	145	0.102	1.00	Jun	1.40	1.12	0.40	0.73	0.153	0.99				4.65
Goal 2XL	pt											0.5000	11.75	5.87	5.87
MSMA	pint											1.3300	2.25	2.99	2.99
Water tank	1000 gal	170	0.131	0.12	Jun	0.15	0.10	0.01	0.02	0.018	0.12				0.41
Flex irrigation tube acre				1.00	Jun							1.0000	5.75	5.75	5.75
Furrow irrg - cotton ac in				1.00	Jun			2.70	3.99	0.450	2.92	3.0000			9.62
Cotton insect scout acre				1.00	Jun							1.0000	6.50	6.50	6.50

**Table 2. Estimated resource use and costs for field operations, per acre, Cotton, Furrow Irrigated, Loamy Soils, Northeast Arkansas, 2000 (continued)**

OPERATION/ OPERATING INPUT	SIZE/ UNIT	TRACTOR SIZE	PERF RATE	TIMES OVER	MTH	TRACTOR COST		EQUIP COST		ALLOC LABOR		OPERATING INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Furrow irrg - cotton	ac in			1.00	Jul			2.70	3.99	0.450	2.92	3.0000			9.62
Cstm ap air 3 gal	acre			1.00	Jul							1.0000	3.25	3.25	3.25
Dimetholate	pint											0.6000	4.05	2.43	2.43
Pix Plus	oz											10.0000	0.80	8.00	8.00
Furrow irrg - cotton	ac in			1.00	Jul			2.70	3.99	0.450	2.92	3.0000			9.62
Cstm ap air 5 gal	acre			1.00	Jul							1.0000	4.00	4.00	4.00
Pyrethroid	acre											1.0000	6.32	6.32	6.32
Pix Plus	oz											12.0000	0.80	9.60	9.60
Furrow irrg - cotton	ac in			1.00	Aug			1.35	1.99	0.225	1.46	1.5000			4.81
Cstm ap air 5 gal	acre			1.00	Aug							1.0000	4.00	4.00	4.00
Pyrethroid	acre											1.0000	6.32	6.32	6.32
Cstm ap air 5 gal	acre			1.00	Aug							1.0000	4.00	4.00	4.00
Pyrethroid	acre											1.0000	6.32	6.32	6.32
Cstm ap air defolant	acre			1.00	Sep							1.0000	4.50	4.50	4.50
Prep	pint											0.3300	6.15	2.02	2.02
Def or Folex	pint											0.7500	5.21	3.90	3.90
Dropp	lb											0.1000	56.00	5.60	5.60
Cstm ap air defolant	acre			1.00	Sep							1.0000	4.50	4.50	4.50
Prep	pint											2.0000	6.15	12.30	12.30
Def or Folex	pint											0.5000	5.21	2.60	2.60
Boll Buggy	4 bale	160	0.220	1.00	Oct	3.29	2.69	0.95	2.77	0.264	1.71				11.43
Cotton picker-4r,1st	12.67'		0.294												53.18
Module builder	32'	180	0.220	1.00	Oct	3.98	3.44	1.02	2.99	0.264	1.71				13.16
<b>TOTALS</b>						28.51	24.07	37.21	55.78	4.932	32.06			228.44	406.09
INTEREST ON OPERATING CAPITAL															10.86
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															416.95

Does not include costs for land, overhead and management.

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**Table 3. Alternative Cotton Production Practices, and which cotton budgets contain them.**

Production Practice	Cost per acre*	Budget No.
Bud worm/boll worm control		
Lannate (1 gal./ 4 acres)	\$11.56	AG 564-66, 568, 572-74, 576
Larvin (1 gal./ 3.5 acres)	\$15.37	AG 563
Tracer (1 gal./ 64 acres)	\$12.30	AG 563-66, 568, 571-74, 576
Tracer (1/2 rate) + Pyretheroid	\$12.47	AG 563-66, 568, 571-74, 576
Defoliation for once over harvest	\$36.72	AG 564,66,68,72,74,76,79
Defoliation for standard harvest (50% scrap)	\$34.35	AG 565,67,69,70,73,75,81
Foliar Nitrogen, 23%	\$0.50/gal.+App.	None
Flail Shredder, 20'	\$7.11	AG 566, 69, 70, 74
Gaucho seed treatment	\$0.97/lb. of seed	AG 565, 73, 79,82
Harvest 2 row harvester, first pick	\$60.22	None
2 row harvester, second pick	\$43.36	None
4 row harvester, first pick	\$53.18	All
4 row harvester, second pick	\$40.18	AG 565,67,69,70,73,75,81
5 row harvester, (38" rows), first pick	\$48.59	None
5 row harvester, (38" rows), second pick	\$36.71	None
Irrigation, furrow	\$3.21/ac inch	Most
Irrigation, center pivot	\$11.02/ac inch	AG 565, 73, 80
Module Builder	\$11.72	All
Row cultivate plus directed spray	\$4.65 + material	All
Scouting, once a week	\$3.50	None
Staple herbicide banded application (0.6 oz)	\$12.00	Most
Treflan, Triple K application (1.25 pints)	\$9.94	AG 579, 582
Treflan, Incorporator application (0.75 pints)	\$6.41	Most

\* Machinery costs per acre assume that each machine is fully utilized on the farm.

The authors gratefully acknowledge the contributions of Bill Robertson, Gus Lorenz, Don Plunkett, Ken Smith, Charles Allen, Don Johnson and Gary Huitink in the construction of the 2000 cotton budgets. For additional information on cotton economics contact Kelly Bryant at the Southeast Research and Extension Center 870-460-1091.





UNIVERSITY OF ARKANSAS  
DIVISION OF AGRICULTURE  
Cooperative Extension Service

## Estimating 2000 Costs of Production

### Cotton, Center Pivot Irrigation, 130 acres, Loamy Soils, Northeast Arkansas, 2000

Ag-580-12-99

Kelly J. Bryant, Area Extension Specialist - Farm Management  
Tony E. Windham, Extension Economist - Management

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CROP SEED					
Cotton seed	lb	0.87	12.0000	10.44	_____
CUSTOM WORK					
Cstm ap grd fert dry	acre	3.50	1.0000	3.50	_____
Cstm ap grd fert liq	acre	3.50	2.0000	7.00	_____
Cotton insect scout	acre	6.50	1.0000	6.50	_____
Cstm ap air 3 gal	acre	3.25	1.0000	3.25	_____
Cstm ap air 5 gal	acre	4.00	3.0000	12.00	_____
Cstm ap air defolant	acre	4.50	2.0000	9.00	_____
FERTILIZER & LIME					
P205	unit	0.22	23.0000	5.24	_____
K20	unit	0.12	48.0000	6.19	_____
Boron	unit	3.30	1.0000	3.30	_____
N (actual)	unit	0.21	90.0000	19.53	_____
FUNGICIDE & SEED TR.					
Terraclor SE granul	lb	2.19	7.0000	15.33	_____
GROWTH REGULATORS					
Pix Plus	oz	0.80	26.0000	20.80	_____
HARVEST AIDS					
Finish	pt	6.83	0.3300	2.25	_____
Def or Folex	pint	5.21	1.0000	5.21	_____
* Dropp	lb	56.00	0.1000	5.60	_____
Prep	pint	6.15	2.0000	12.30	_____
HERBICIDES					
Treflan 4EC	pint	3.76	1.2500	4.70	_____
Cotoran 4L	pint	4.20	1.0000	4.20	_____
Staple	ounce	20.00	0.6000	12.00	_____
Caparol 4L	pint	3.50	1.0000	3.50	_____
MSMA	pint	2.25	3.9900	8.97	_____
Goal 2XL	pt	11.75	0.5000	5.87	_____
INSECTICIDES					
Temik 15G	lb	3.20	3.0000	9.60	_____
Vydate C-LV	pint	7.55	0.2500	1.88	_____
Dimetholate	pint	4.05	0.6000	2.43	_____
Pyrethroid	acre	6.32	3.0000	18.96	_____
OPERATOR LABOR					
Implements	hour	6.50	2.2557	14.66	_____
Self-Propelled Eq.	hour	6.50	1.3892	9.03	_____
IRRIGATION LABOR					
C-piv irrg.- cotton	hour	6.50	0.4375	2.84	_____
DIESEL FUEL					
Tractors	gal	0.70	18.5589	12.99	_____
Self-Propelled Eq.	gal	0.70	5.6197	3.93	_____
C-piv irrg.- cotton	gal	0.70	14.4375	10.10	_____
REPAIR & MAINTENANCE					
Implements	acre	7.05	1.0000	7.05	_____
Tractors	acre	14.98	1.0000	14.98	_____
Self-Propelled Eq.	acre	24.31	1.0000	24.31	_____
C-piv irrg.- cotton	acre	9.18	1.0000	9.18	_____
INTEREST ON OP. CAP.	acre	10.55	1.0000	10.55	_____
TOTAL DIRECT EXPENSES				339.23	_____
FIXED EXPENSES					
Implements	acre	16.13	1.0000	16.13	_____
Tractors	acre	23.46	1.0000	23.46	_____
Self-Propelled Eq.	acre	35.99	1.0000	35.99	_____
C-piv irrg.- cotton	acre	74.28	1.0000	74.28	_____
TOTAL FIXED EXPENSES				149.88	_____
TOTAL SPECIFIED EXPENSES				489.12	_____

Does not include costs for land, overhead and management.

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Table 2. Estimated resource use and costs for field operations; per acre, Cotton, Center Pivot Irrigation, 130 acres, Loamy Soils, Northeast Arkansas, 2000

OPERATION/ OPERATING INPUT	SIZE/ UNIT	TRACTOR SIZE	PERF RATE	TIMES OVER	MTH	TRACTOR COST		EQUIP COST		ALLOC LABOR		OPERATING INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Stalk cutter	15'	145	0.137	1.00	Oct	1.88	1.51	0.50	0.50	0.164	1.06				5.47
Disk, medium cut	26.41'	180	0.082	1.00	Oct	1.48	1.28	0.44	1.11	0.098	0.63				4.96
Chisel plow	21'	180	0.092	1.00	Oct	1.66	1.44	0.17	0.36	0.110	0.71				4.36
Cstm ap grd fert dry acre				1.00	Nov							1.0000	3.50	3.50	3.50
P205	unit											23.0000	0.22	5.24	5.24
K20	unit											48.0000	0.12	6.19	6.19
Boron	unit											1.0000	3.30	3.30	3.30
Field cultivator	25.5'	180	0.054	1.00	Nov	0.97	0.84	0.20	0.47	0.064	0.42				2.92
Disk bedder, 8r@38"	25.33'	180	0.070	1.00	Nov	1.26	1.09	0.17	0.39	0.084	0.54				3.48
Disk bedder, 8r@38"	25.33'	180	0.070	1.00	Apr	1.26	1.09	0.17	0.39	0.084	0.54				3.48
Bed conditioner	26.67'	180	0.052	1.00	Apr	0.94	0.81	0.18	0.43	0.062	0.40				2.77
Triple K	26.67'	180	0.052	1.00	May	0.94	0.81	0.26	0.61	0.062	0.40				3.04
Treflan 4EC	pint											1.2500	3.76	4.70	4.70
Water tank	1000 gal	160	0.131	0.06	May	0.11	0.09	0.00	0.01	0.009	0.06				0.29
Plant+spr dir 8r@38"	25.33'	180	0.100	1.00	May	1.80	1.56	0.80	1.96	0.150	0.97				7.12
Cotton seed	lb											12.0000	0.87	10.44	10.44
Temik 15G	lb											3.0000	3.20	9.60	9.60
Terraclor SE granul	lb											7.0000	2.19	15.33	15.33
Cotoran 4L	pint											1.0000	4.20	4.20	4.20
Water tank	1000 gal	160	0.131	0.05	May	0.09	0.08	0.00	0.00	0.007	0.05				0.24
Cstm ap grd fert liq acre				1.00	May							1.0000	3.50	3.50	3.50
N (actual)	unit											45.0000	0.21	9.76	9.76
Row cult 8r@38"	25.33'	145	0.102	1.00	May	1.40	1.12	0.29	0.53	0.122	0.79				4.15
Water tank	1000 gal	160	0.131	0.05	Jun	0.09	0.08	0.00	0.00	0.007	0.05				0.24
Row cult + sprdir38"	25.33'	145	0.102	1.00	Jun	1.40	1.12	0.40	0.73	0.153	0.99				4.65
Staple	ounce											0.6000	20.00	12.00	12.00
Cstm ap grd fert liq acre				1.00	Jun							1.0000	3.50	3.50	3.50
N (actual)	unit											45.0000	0.21	9.76	9.76
C-piv irrg.- cotton	ac in			1.00	Jun				2.75	10.61	0.062	0.40			13.77
Row cult + sprdir38"	25.33'	145	0.102	1.00	Jun	1.40	1.12	0.40	0.73	0.153	0.99	1.2500			4.65
Caparol 4L	pint											0.5000	3.50	1.75	1.75
MSMA	pint											1.3300	2.25	2.99	2.99
Water tank	1000 gal	160	0.131	0.05	Jun	0.09	0.08	0.00	0.00	0.007	0.05				0.24
Row cult + sprdir38"	25.33'	145	0.102	1.00	Jun	1.40	1.12	0.40	0.73	0.153	0.99				4.65
Caparol 4L	pint											0.5000	3.50	1.75	1.75
MSMA	pint											1.3300	2.25	2.99	2.99
Vydate C-LV	pint											0.2500	7.55	1.88	1.88
Pix Plus	oz											4.0000	0.80	3.20	3.20
Water tank	1000 gal	110	0.131	0.05	Jun	0.07	0.05	0.00	0.00	0.007	0.05				0.19
C-piv irrg.- cotton	ac in			1.00	Jun				2.75	10.61	0.062	0.40			13.77
Row cult + sprdir38"	25.33'	145	0.102	1.00	Jun	1.40	1.12	0.40	0.73	0.153	0.99	0.5000	11.75	5.87	4.65
Goal 2XL	pt											0.5000	11.75	5.87	5.87
MSMA	pint											1.3300	2.25	2.99	2.99
Water tank	1000 gal	160	0.131	0.12	Jun	0.23	0.19	0.01	0.02	0.018	0.12				0.58

**Table 2. Estimated resource use and costs for field operations, per acre, Cotton, Center Pivot Irrigation, 130 acres, Loamy Soils, Northeast Arkansas, 2000 (continued)**

OPERATION/ OPERATING INPUT	SIZE/ UNIT	TRACTOR SIZE	PERF RATE	TIMES OVER	MTH	TRACTOR COST		EQUIP COST		ALLOC LABOR		OPERATING INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Cotton insect scout	acre			1.00	Jul							1.0000	6.50	6.50	6.50
C-piv irrg.- cotton	ac in			1.00	Jul			2.75	10.61	0.062	0.40	1.2500			13.77
C-piv irrg.- cotton	ac in			1.00	Jul			2.75	10.61	0.062	0.40	1.2500			13.77
C-piv irrg.- cotton	ac in			1.00	Jul			2.75	10.61	0.062	0.40	1.2500			13.77
Cstm ap air 3 gal	acre			1.00	Jul							1.0000	3.25	3.25	3.25
Dimetholate	pint											0.6000	4.05	2.43	2.43
Pix Plus	oz											10.0000	0.80	8.00	8.00
Cstm ap air 5 gal	acre			1.00	Jul							1.0000	4.00	4.00	4.00
Pyrethroid	acre											1.0000	6.32	6.32	6.32
Pix Plus	oz											12.0000	0.80	9.60	9.60
C-piv irrg.- cotton	ac in			1.00	Aug			2.75	10.61	0.062	0.40	1.2500			13.77
C-piv irrg.- cotton	ac in			1.00	Aug			2.75	10.61	0.062	0.40	1.2500			13.77
Cstm ap air 5 gal	acre			1.00	Aug							1.0000	4.00	4.00	4.00
Pyrethroid	acre											1.0000	6.32	6.32	6.32
Cstm ap air 5 gal	acre			1.00	Aug							1.0000	4.00	4.00	4.00
Pyrethroid	acre											1.0000	6.32	6.32	6.32
Cstm ap air defolant	acre			1.00	Sep							1.0000	4.50	4.50	4.50
Finish	pt											0.3300	6.83	2.25	2.25
Def or Folex	pint											0.5000	5.21	2.60	2.60
Dropp	lb											0.1000	56.00	5.60	5.60
Cstm ap air defolant	acre			1.00	Sep							1.0000	4.50	4.50	4.50
Prep	pint											2.0000	6.15	12.30	12.30
Def or Folex	pint											0.5000	5.21	2.60	2.60
Boll Buggy	4 bale	160	0.220	1.00	Oct	3.29	2.69	0.95	2.77	0.264	1.71				11.43
Cotton picker-4r,1st	12.67'		0.294												53.18
Module builder	32'	180	0.220	1.00	Oct	3.98	3.44	1.02	2.99	0.264	1.71				13.16
Cotton picker-4r,2nd	12.67'		0.222	0.50	Oct				7.74	9.87	0.380	2.47			20.09
Module builder	32'	180	0.220	0.10	Oct	0.39	0.34	0.10	0.29	0.026	0.17				1.31
Boll Buggy	4 bale	160	0.220	0.10	Oct	0.32	0.26	0.09	0.27	0.026	0.17				1.14
<b>TOTALS</b>						<b>27.97</b>	<b>23.46</b>	<b>54.59</b>	<b>126.42</b>	<b>4.082</b>	<b>26.53</b>			<b>219.57</b>	<b>478.57</b>
INTEREST ON OPERATING CAPITAL															10.55
UNALLOCATED LABOR															0.00
<b>TOTAL SPECIFIED COST</b>															<b>489.12</b>

Does not include costs for land, overhead and management.

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Tracer (1/2 rate) + Pyretheroid	\$12.47	AG 563-66, 568, 571-74, 576
Defoliation for once over harvest	\$36.72	AG 564,66,68,72,74,76,79
Defoliation for standard harvest (50% scrap)	\$34.35	AG 565,67,69,70,73,75,81
Foliar Nitrogen, 23%	\$0.50/gal.+App.	None
Flail Shredder, 20'	\$7.11	AG 566, 69, 70, 74
Gaucho seed treatment	\$0.97/lb. of seed	AG 565, 73, 79,82
Harvest 2 row harvester, first pick	\$60.22	None
2 row harvester, second pick	\$43.36	None
4 row harvester, first pick	\$53.18	All
4 row harvester, second pick	\$40.18	AG 565,67,69,70,73,75,81
5 row harvester, (38" rows), first pick	\$48.59	None
5 row harvester, (38" rows), second pick	\$36.71	None
Irrigation, furrow	\$3.21/ac inch	Most
Irrigation, center pivot	\$11.02/ac inch	AG 565, 73, 80
Module Builder	\$11.72	All
Row cultivate plus directed spray	\$4.65 + material	All
Scouting, once a week	\$3.50	None
Staple herbicide banded application (0.6 oz)	\$12.00	Most
Treflan, Triple K application (1.25 pints)	\$9.94	AG 579, 582
Treflan, Incorporator application (0.75 pints)	\$6.41	Most

\* Machinery costs per acre assume that each machine is fully utilized on the farm.

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**Estimating 2000 Costs of Production**

**Cotton, 12 Row Equipment, Center Pivot Irrigation,  
Loamy Soils, Northeast Arkansas, 2000**

Ag-581-12-99

**Kelly J. Bryant, Area Extension Specialist - Farm Management**  
**Tony E. Windham, Extension Economist - Management**

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
<b>DIRECT EXPENSES</b>					
<b>CROP SEED</b>					
Cotton seed	lb	0.87	12.0000	10.44	_____
<b>CUSTOM WORK</b>					
Cstm ap grd fert dry	acre	3.50	1.0000	3.50	_____
Cstm ap grd fert liq	acre	3.50	2.0000	7.00	_____
Cotton insect scout	acre	6.50	1.0000	6.50	_____
Cstm ap air 3 gal	acre	3.25	1.0000	3.25	_____
Cstm ap air 5 gal	acre	4.00	2.0000	8.00	_____
Cstm ap air defolant	acre	4.50	2.0000	9.00	_____
<b>FERTILIZER &amp; LIME</b>					
P205	unit	0.22	23.0000	5.24	_____
K20	unit	0.12	48.0000	6.19	_____
Boron	unit	3.30	1.0000	3.30	_____
N (actual)	unit	0.21	90.0000	19.53	_____
<b>FUNGICIDE &amp; SEED TR.</b>					
Terraclor SE granul	lb	2.19	7.0000	15.33	_____
<b>GROWTH REGULATORS</b>					
Pix Plus	oz	0.80	26.0000	20.80	_____
<b>HARVEST AIDS</b>					
Finish	pt	6.83	0.3300	2.25	_____
Def or Folex	pint	5.21	1.0000	5.21	_____
Dropp	lb	56.00	0.1000	5.60	_____
Prep	pint	6.15	2.0000	12.30	_____
<b>HERBICIDES</b>					
Treflan 4EC	pint	3.76	1.2500	4.70	_____
Cotoran 4L	pint	4.20	1.0000	4.20	_____
Staple	ounce	20.00	0.6000	12.00	_____
Caparol 4L	pint	3.50	1.0000	3.50	_____
MSMA	pint	2.25	3.9900	8.97	_____
Goal 2XL	pt	11.75	0.5000	5.87	_____
<b>INSECTICIDES</b>					
Temik 15G	lb	3.20	3.0000	9.60	_____
Vydate C-LV	pint	7.55	0.2500	1.88	_____
Dimetholate	pint	4.05	0.6000	2.43	_____
Pyrethroid	acre	6.32	3.0000	18.96	_____
<b>OPERATOR LABOR</b>					
Implements	hour	6.50	1.8318	11.90	_____
Self-Propelled Eq.	hour	6.50	1.3892	9.03	_____
<b>IRRIGATION LABOR</b>					
C-piv irrg.- cotton	hour	6.50	0.4375	2.84	_____
<b>DIESEL FUEL</b>					
Tractors	gal	0.70	16.7253	11.70	_____
Self-Propelled Eq.	gal	0.70	5.6197	3.93	_____
C-piv irrg.- cotton	gal	0.70	14.4375	10.10	_____
<b>REPAIR &amp; MAINTENANCE</b>					
Implements	acre	9.48	1.0000	9.48	_____
Tractors	acre	13.42	1.0000	13.42	_____
Self-Propelled Eq.	acre	24.31	1.0000	24.31	_____
C-piv irrg.- cotton	acre	9.18	1.0000	9.18	_____
INTEREST ON OP. CAP.	acre	12.62	1.0000	12.62	_____
<b>TOTAL DIRECT EXPENSES</b>				<b>334.14</b>	_____
<b>FIXED EXPENSES</b>					
Implements	acre	20.27	1.0000	20.27	_____
Tractors	acre	21.01	1.0000	21.01	_____
Self-Propelled Eq.	acre	35.99	1.0000	35.99	_____
C-piv irrg.- cotton	acre	74.28	1.0000	74.28	_____
<b>TOTAL FIXED EXPENSES</b>				<b>151.58</b>	_____
<b>TOTAL SPECIFIED EXPENSES</b>				<b>485.72</b>	_____

Does not include costs for land, overhead and management.

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**Table 2. Estimated resource use and costs for field operations, per acre, Cotton, 12 Row Equipment, Center Pivot Irrigation, Loamy Soils, Northeast Arkansas, 2000**

OPERATION/ OPERATING INPUT	SIZE/ UNIT	TRACTOR SIZE	PERF RATE	TIMES OVER	MTH	TRACTOR COST		EQUIP COST		ALLOC LABOR		OPERATING INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Stalk cutter	15'	145	0.137	1.00	Oct	1.88	1.51	0.50	0.50	0.164	1.06				5.47
Disk, medium cut	29.25'	200	0.074	1.00	Oct	1.48	1.25	0.45	1.14	0.088	0.57				4.91
Chisel plow	21'	180	0.092	1.00	Oct	1.66	1.44	0.17	0.36	0.110	0.71				4.36
Cstm ap grd fert dry acre				1.00	Nov							1.0000	3.50	3.50	3.50
P205	unit											23.0000	0.22	5.24	5.24
K20	unit											48.0000	0.12	6.19	6.19
Boron	unit											1.0000	3.30	3.30	3.30
Field cultivator	31.5'	180	0.044	1.00	Nov	0.79	0.68	0.22	0.52	0.052	0.34				2.57
Disk Bedder 12@38"	38'	180	0.046	1.00	Nov	0.84	0.72	0.49	1.10	0.055	0.36				3.52
Disk Bedder 12@38"	38'	180	0.046	1.00	Apr	0.84	0.72	0.49	1.10	0.055	0.36				3.52
Bed conditioner	26.67'	160	0.052	1.00	Apr	0.77	0.63	0.18	0.43	0.062	0.40				2.43
Triple K	31.5'	180	0.044	1.00	May	0.79	0.68	0.22	0.52	0.052	0.34				2.57
Treflan 4EC	pint											1.2500	3.76	4.70	4.70
Water tank	1000 gal	160	0.131	0.06	May	0.11	0.09	0.00	0.01	0.009	0.06				0.29
Planter & Hopper Box	38'	200	0.061	1.00	May	1.22	1.03	2.60	4.66	0.140	0.91				10.44
Cotton seed	lb											12.0000	0.87	10.44	10.44
Temik 15G	lb											3.0000	3.20	9.60	9.60
Terraclor SE granul	lb											7.0000	2.19	15.33	15.33
Cotoran 4L	pint											1.0000	4.20	4.20	4.20
Water tank	1000 gal	160	0.131	0.05	May	0.09	0.08	0.00	0.00	0.007	0.05				0.24
Cstm ap grd fert liq acre				1.00	May							1.0000	3.50	3.50	3.50
N (actual)	unit											45.0000	0.21	9.76	9.76
Row Cultivator 12@38	38'	200	0.068	1.00	May	1.36	1.15	0.38	0.69	0.081	0.53				4.13
Row Cultivator 12@38	38'	200	0.068	1.00	Jun	1.36	1.15	0.38	0.69	0.081	0.53				4.13
Staple	ounce											0.6000	20.00	12.00	12.00
Water tank	1000 gal	160	0.131	0.05	Jun	0.09	0.08	0.00	0.00	0.007	0.05				0.24
Cstm ap grd fert liq acre				1.00	Jun							1.0000	3.50	3.50	3.50
N (actual)	unit											45.0000	0.21	9.76	9.76
C-piv irrg.- cotton	ac in			1.00	Jun			2.75	10.61	0.062	0.40	1.2500			13.77
Row Cultivator 12@38	38'	200	0.068	1.00	Jun	1.36	1.15	0.38	0.69	0.081	0.53				4.13
Caparol 4L	pint											0.5000	3.50	1.75	1.75
MSMA	pint											1.3300	2.25	2.99	2.99
Water tank	1000 gal	160	0.131	0.05	Jun	0.09	0.08	0.00	0.00	0.007	0.05				0.24
Row Cultivator 12@38	38'	200	0.068	1.00	Jun	1.36	1.15	0.38	0.69	0.081	0.53				4.13
Caparol 4L	pint											0.5000	3.50	1.75	1.75
MSMA	pint											1.3300	2.25	2.99	2.99
Vydate C-LV	pint											0.2500	7.55	1.88	1.88
Pix Plus	oz											4.0000	0.80	3.20	3.20
Water tank	1000 gal	160	0.131	0.05	Jun	0.09	0.08	0.00	0.00	0.007	0.05				0.24
C-piv irrg.- cotton	ac in			1.00	Jun			2.75	10.61	0.062	0.40	1.2500			13.77
Row Cultivator 12@38	38'	200	0.068	1.00	Jun	1.36	1.15	0.38	0.69	0.081	0.53				4.13
Goal 2XL	pt											0.5000	11.75	5.87	5.87
MSMA	pint											1.3300	2.25	2.99	2.99

**Table 2. Estimated resource use and costs for field operations, per acre, Cotton, 12 Row Equipment, Center Pivot Irrigation, Loamy Soils, Northeast Arkansas, 2000 (continued)**

OPERATION/ OPERATING INPUT	SIZE/ UNIT	TRACTOR SIZE	PERF RATE	TIMES OVER	MTH	TRACTOR COST		EQUIP COST		ALLOC LABOR		OPERATING INPUT			TOTAL COST	
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST		
						-----dollars-----				dollars		-----dollars-----				
Water tank	1000 gal	160	0.131	0.12	Jun	0.23	0.19	0.01	0.02	0.018	0.12					0.58
Cotton insect scout	acre			1.00	Jul							1.0000	6.50	6.50		6.50
C-piv irrg.- cotton	ac in			1.00	Jul			2.75	10.61	0.062	0.40	1.2500				13.77
C-piv irrg.- cotton	ac in			1.00	Jul			2.75	10.61	0.062	0.40	1.2500				13.77
C-piv irrg.- cotton	ac in			1.00	Jul			2.75	10.61	0.062	0.40	1.2500				13.77
Cstm ap air 3 gal	acre			1.00	Jul							1.0000	3.25	3.25		3.25
Dimetholate	pint											0.6000	4.05	2.43		2.43
Pix Plus	oz											10.0000	0.80	8.00		8.00
Cstm ap air 5 gal	acre			1.00	Jul							1.0000	4.00	4.00		4.00
Pyrethroid	acre											1.0000	6.32	6.32		6.32
Pix Plus	oz											12.0000	0.80	9.60		9.60
C-piv irrg.- cotton	ac in			1.00	Aug			2.75	10.61	0.062	0.40	1.2500				13.77
C-piv irrg.- cotton	ac in			1.00	Aug			2.75	10.61	0.062	0.40	1.2500				13.77
Cstm ap air 5 gal	acre			1.00	Aug							1.0000	4.00	4.00		4.00
Pyrethroid	acre											1.0000	6.32	6.32		6.32
Pyrethroid	acre			1.00	Aug							1.0000	6.32	6.32		6.32
Cstm ap air defolant	acre			1.00	Sep							1.0000	4.50	4.50		4.50
Finish	pt											0.3300	6.83	2.25		2.25
Def or Folex	pint											0.5000	5.21	2.60		2.60
Dropp	lb											0.1000	56.00	5.60		5.60
Cstm ap air defolant	acre			1.00	Sep							1.0000	4.50	4.50		4.50
Prep	pint											2.0000	6.15	12.30		12.30
Def or Folex	pint											0.5000	5.21	2.60		2.60
Cotton picker-4r,1st	12.67'		0.294	1.00	Oct			20.50	26.12	1.008	6.55					53.18
Module builder	32'	160	0.220	1.00	Oct	3.29	2.69	1.02	2.99	0.264	1.71					11.72
Boll Buggy	4 bale	160	0.220	1.00	Oct	3.29	2.69	0.95	2.77	0.264	1.71					11.43
Cotton picker-4r,2nd	12.67'		0.222	0.50	Oct			7.74	9.87	0.380	2.47					20.09
Module builder	32'	160	0.220	0.10	Oct	0.32	0.26	0.10	0.29	0.026	0.17					1.17
Boll Buggy	4 bale	160	0.220	0.10	Oct	0.32	0.26	0.09	0.27	0.026	0.17					1.14
TOTALS						25.12	21.01	57.03	130.56	3.658	23.78			215.57		473.10
INTEREST ON OPERATING CAPITAL																12.62
UNALLOCATED LABOR																0.00
TOTAL SPECIFIED COST																485.72

Does not include costs for land, overhead and management.

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 name, 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*	Budget No.
Bud worm/boll worm control		
Lannate (1 gal./ 4 acres)	\$11.56	AG 564-66, 568, 572-74, 576
Larvin (1 gal./ 3.5 acres)	\$15.37	AG 563
Tracer (1 gal./ 64 acres)	\$12.30	AG 563-66, 568, 571-74, 576
Tracer (1/2 rate) + Pyretheroid	\$12.47	AG 563-66, 568, 571-74, 576
Defoliation for once over harvest	\$36.72	AG 564,66,68,72,74,76,79
Defoliation for standard harvest (50% scrap)	\$34.35	AG 565,67,69,70,73,75,81
Foliar Nitrogen, 23%	\$0.50/gal.+App.	None
Flail Shredder, 20'	\$7.11	AG 566, 69, 70, 74
Gaucho seed treatment	\$0.97/lb. of seed	AG 565, 73, 79,82
Harvest 2 row harvester, first pick	\$60.22	None
2 row harvester, second pick	\$43.36	None
4 row harvester, first pick	\$53.18	All
4 row harvester, second pick	\$40.18	AG 565,67,69,70,73,75,81
5 row harvester, (38" rows), first pick	\$48.59	None
5 row harvester, (38" rows), second pick	\$36.71	None
Irrigation, furrow	\$3.21/ac inch	Most
Irrigation, center pivot	\$11.02/ac inch	AG 565, 73, 80
Module Builder	\$11.72	All
Row cultivate plus directed spray	\$4.65 + material	All
Scouting, once a week	\$3.50	None
Staple herbicide banded application (0.6 oz)	\$12.00	Most
Treflan, Triple K application (1.25 pints)	\$9.94	AG 579, 582
Treflan, Incorporator application (0.75 pints)	\$6.41	Most

\* Machinery costs per acre assume that each machine is fully utilized on the farm.

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**Estimating 2000 Costs of Production**

**Cotton, BXN System, Furrow Irrigation,  
Loamy Soils, Northeast Arkansas, 2000**

Ag-582-12-99

**Kelly J. Bryant, Area Extension Specialist - Farm Management**  
**Tony E. Windham, Extension Economist - Management**

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
<b>DIRECT EXPENSES</b>					
<b>CROP SEED</b>					
Cotton seed (BXN)	lb	1.43	12.0000	17.26	_____
<b>CUSTOM WORK</b>					
Cstm ap grd fert dry	acre	3.50	1.0000	3.50	_____
Cstm ap grd fert liq	acre	3.50	2.0000	7.00	_____
Cotton insect scout	acre	6.50	1.0000	6.50	_____
Cstm ap air 3 gal	acre	3.25	1.0000	3.25	_____
Cstm ap air 5 gal	acre	4.00	3.0000	12.00	_____
Cstm ap air defolant	acre	4.50	2.0000	9.00	_____
<b>FERTILIZER &amp; LIME</b>					
P205	unit	0.22	23.0000	5.24	_____
K20	unit	0.12	48.0000	6.19	_____
Boron	unit	3.30	1.0000	3.30	_____
N (actual)	unit	0.21	90.0000	19.53	_____
<b>FUNGICIDE &amp; SEED TR.</b>					
Terraclor SE granul	lb	2.19	7.0000	15.33	_____
<b>GROWTH REGULATORS</b>					
Pix Plus	oz	0.80	26.0000	20.80	_____
<b>HARVEST AIDS</b>					
Prep	pint	6.15	2.3300	14.32	_____
Def or Folex	pint	5.21	1.5000	7.81	_____
Drapp	lb	56.00	0.1000	5.60	_____
<b>HERBICIDES</b>					
Treflan 4EC	pint	3.76	1.2500	4.70	_____
Cotoran 4L	pint	4.20	1.0000	4.20	_____
Buctril 4EC	pint	12.65	2.0000	25.30	_____
Assure II	ounce	0.94	8.0000	7.52	_____
Caparol 4L	pint	3.50	0.5000	1.75	_____
MSMA	pint	2.25	1.3300	2.99	_____
<b>INSECTICIDES</b>					
Gaucho	lb	0.97	12.0000	11.64	_____
Vydate C-LV	pint	7.55	0.2500	1.88	_____
Dimetholate	pint	4.05	0.6000	2.43	_____
Pyrethroid	acre	6.32	3.0000	18.96	_____
<b>MISC. IRRIGATION</b>					
Flex irrigation tube	acre	5.75	1.0000	5.75	_____
<b>OPERATOR LABOR</b>					
Implements	hour	6.50	2.0719	13.46	_____
Self-Propelled Eq.	hour	6.50	1.0083	6.55	_____
<b>IRRIGATION LABOR</b>					
Furrow irrg - cotton	hour	6.50	1.5750	10.23	_____
<b>DIESEL FUEL</b>					
Tractors	gal	0.70	16.5557	11.58	_____
Self-Propelled Eq.	gal	0.70	4.0788	2.85	_____
Furrow irrg - cotton	gal	0.70	9.6495	6.75	_____
<b>REPAIR &amp; MAINTENANCE</b>					
Implements	acre	6.13	1.0000	6.13	_____
Tractors	acre	13.53	1.0000	13.53	_____
Self-Propelled Eq.	acre	17.64	1.0000	17.64	_____
Furrow irrg - cotton	acre	2.73	1.0000	2.73	_____
INTEREST ON OP. CAP.	acre	11.34	1.0000	11.34	_____
<b>TOTAL DIRECT EXPENSES</b>				<b>346.62</b>	_____
<b>FIXED EXPENSES</b>					
Implements	acre	13.49	1.0000	13.49	_____
Tractors	acre	21.18	1.0000	21.18	_____
Self-Propelled Eq.	acre	26.12	1.0000	26.12	_____
Furrow irrg - cotton	acre	13.96	1.0000	13.96	_____
<b>TOTAL FIXED EXPENSES</b>				<b>74.78</b>	_____
<b>TOTAL SPECIFIED EXPENSES</b>				<b>421.41</b>	_____

Does not include costs for land, overhead and management.

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**Table 2. Estimated resource use and costs for field operations, per acre, Cotton, BXN System, Furrow Irrigation, Loamy Soils, Northeast Arkansas, 2000**

OPERATION/ OPERATING INPUT	SIZE/ UNIT	TRACTOR SIZE	PERF RATE	TIMES OVER	MTH	TRACTOR COST		EQUIP COST		ALLOC LABOR		OPERATING INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Stalk cutter	15'	145	0.137	1.00	Oct	1.88	1.51	0.50	0.50	0.164	1.06				5.47
Chisel plow	21'	180	0.092	1.00	Oct	1.66	1.44	0.17	0.36	0.110	0.71				4.36
Cstm ap grd fert dry	acre			1.00	Nov							1.0000	3.50	3.50	3.50
P205	unit											23.0000	0.22	5.24	5.24
K20	unit											48.0000	0.12	6.19	6.19
Boron	unit											1.0000	3.30	3.30	3.30
Field cultivator	25.5'	180	0.054	1.00	Nov	0.97	0.84	0.20	0.47	0.064	0.42				2.92
Disk bedder, 8r@38"	25.33'	180	0.070	1.00	Nov	1.26	1.09	0.17	0.39	0.084	0.54				3.48
Disk bedder, 8r@38"	25.33'	180	0.070	1.00	Apr	1.26	1.09	0.17	0.39	0.084	0.54				3.48
Bed conditioner	26.67'	180	0.052	1.00	Apr	0.94	0.81	0.18	0.43	0.062	0.40				2.77
Triple K w/ sprayer	26.67'	180	0.086	1.00	May	1.55	1.34	0.49	1.00	0.129	0.83				5.24
Treflan 4EC	pint											1.2500	3.76	4.70	4.70
Water tank	1000 gal	160	0.131	0.06	May	0.11	0.09	0.00	0.01	0.009	0.06				0.29
Water tank	1000 gal	160	0.131	0.06	May	0.11	0.09	0.00	0.01	0.009	0.06				0.29
Plntr hbox + granule	25.33'	180	0.100	1.00	May	1.80	1.56	0.95	1.70	0.230	1.49				7.52
Cotton seed (BXN)	lb											12.0000	1.43	17.26	17.26
Gaucho	lb											12.0000	0.97	11.64	11.64
Terraclor SE granul	lb											7.0000	2.19	15.33	15.33
Cotoran 4L	pint											1.0000	4.20	4.20	4.20
Cstm ap grd fert liq	acre			1.00	May							1.0000	3.50	3.50	3.50
N (actual)	unit											45.0000	0.21	9.76	9.76
Row cult 8r@38"	25.33'	145	0.102	1.00	May	1.40	1.12	0.29	0.53	0.122	0.79				4.15
Sprayer, Broadcast	26.67'	180	0.095	1.00	Jun	1.71	1.48	0.16	0.39	0.142	0.92				4.69
Buctril 4EC	pint											1.0000	12.65	12.65	12.65
Assure II	ounce											8.0000	0.94	7.52	7.52
Water tank	1000 gal	160	0.131	0.05	Jun	0.09	0.08	0.00	0.00	0.007	0.05				0.24
Cstm ap grd fert liq	acre			1.00	Jun							1.0000	3.50	3.50	3.50
N (actual)	unit											45.0000	0.21	9.76	9.76
Row cult + sprdir38"	25.33'	145	0.102	1.00	Jun	1.40	1.12	0.40	0.73	0.153	0.99				4.65
Buctril 4EC	pint											1.0000	12.65	12.65	12.65
Vydate C-LV	pint											0.2500	7.55	1.88	1.88
Pix Plus	oz											4.0000	0.80	3.20	3.20
Water tank	1000 gal	160	0.131	0.05	Jun	0.09	0.08	0.00	0.00	0.007	0.05				0.24
Row cult + sprdir38"	25.33'	145	0.102	1.00	Jun	1.40	1.12	0.40	0.73	0.153	0.99				4.65
Caparol 4L	pint											0.5000	3.50	1.75	1.75
MSMA	pint											1.3300	2.25	2.99	2.99
Water tank	1000 gal	160	0.131	0.06	Jun	0.11	0.09	0.00	0.01	0.009	0.06				0.29
Flex irrigation tube	acre			1.00	Jun							1.0000	5.75	5.75	5.75
Furrow irrg - cotton	ac in			1.00	Jun				2.70	3.99	0.450	2.92	3.0000		9.62
Cotton insect scout	acre			1.00	Jun							1.0000	6.50	6.50	6.50
Furrow irrg - cotton	ac in			1.00	Jul				2.70	3.99	0.450	2.92	3.0000		9.62
Cstm ap air 3 gal	acre			1.00	Jul							1.0000	3.25	3.25	3.25
Dimetholate	pint											0.6000	4.05	2.43	2.43
Pix Plus	oz											10.0000	0.80	8.00	8.00
Furrow irrg - cotton	ac in			1.00	Jul				2.70	3.99	0.450	2.92	3.0000		9.62

**Table 2. Estimated resource use and costs for field operations, per acre, Cotton, BXN System, Furrow Irrigation, Loamy Soils, Northeast Arkansas, 2000 (continued)**

OPERATION/ OPERATING INPUT	SIZE/ UNIT	TRACTOR SIZE	PERF RATE	TIMES OVER	MTH	TRACTOR COST		EQUIP COST		ALLOC LABOR		OPERATING INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Cstm ap air 5 gal	acre			1.00	Jul							1.0000	4.00	4.00	4.00
Pyrethroid	acre											1.0000	6.32	6.32	6.32
Pix Plus	oz											12.0000	0.80	9.60	9.60
Furrow irrg - cotton	ac in			1.00	Aug			1.35	1.99	0.225	1.46	1.5000			4.81
Cstm ap air 5 gal	acre			1.00	Aug							1.0000	4.00	4.00	4.00
Pyrethroid	acre											1.0000	6.32	6.32	6.32
Cstm ap air 5 gal	acre			1.00	Aug							1.0000	4.00	4.00	4.00
Pyrethroid	acre											1.0000	6.32	6.32	6.32
Cstm ap air defolant	acre			1.00	Sep							1.0000	4.50	4.50	4.50
Prep	pint											0.3300	6.15	2.02	2.02
Def or Folex	pint											0.7500	5.21	3.90	3.90
Dropp	lb											0.1000	56.00	5.60	5.60
Cstm ap air defolant	acre			1.00	Sep							1.0000	4.50	4.50	4.50
Prep	pint											2.0000	6.15	12.30	12.30
Def or Folex	pint											0.7500	5.21	3.90	3.90
Cotton picker-4r,1st	12.67'		0.294	1.00	Oct			20.50	26.12	1.008	6.55				53.18
Module builder	32'	180	0.220	1.00	Oct	3.98	3.44	1.02	2.99	0.264	1.71				13.16
Boll Buggy	4 bale	160	0.220	1.00	Oct	3.29	2.69	0.95	2.77	0.264	1.71				11.43
<b>TOTALS</b>						25.12	21.18	36.11	53.59	4.655	30.25			243.78	410.07
INTEREST ON OPERATING CAPITAL															11.34
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															421.41

Does not include costs for land, overhead and management.

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 name, not 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*	Budget No.
Bud worm/boll worm control		
Lannate (1 gal./ 4 acres)	\$11.56	AG 564-66, 568, 572-74, 576
Larvin (1 gal./ 3.5 acres)	\$15.37	AG 563
Tracer (1 gal./ 64 acres)	\$12.30	AG 563-66, 568, 571-74, 576
Tracer (1/2 rate) + Pyretheroid	\$12.47	AG 563-66, 568, 571-74, 576
Defoliation for once over harvest	\$36.72	AG 564,66,68,72,74,76,79
Defoliation for standard harvest (50% scrap)	\$34.35	AG 565,67,69,70,73,75,81
Foliar Nitrogen, 23%	\$0.50/gal.+App.	None
Flail Shredder, 20'	\$7.11	AG 566, 69, 70, 74
Gaucho seed treatment	\$0.97/lb. of seed	AG 565, 73, 79,82
Harvest 2 row harvester, first pick	\$60.22	None
2 row harvester, second pick	\$43.36	None
4 row harvester, first pick	\$53.18	All
4 row harvester, second pick	\$40.18	AG 565,67,69,70,73,75,81
5 row harvester, (38" rows), first pick	\$48.59	None
5 row harvester, (38" rows), second pick	\$36.71	None
Irrigation, furrow	\$3.21/ac inch	Most
Irrigation, center pivot	\$11.02/ac inch	AG 565, 73, 80
Module Builder	\$11.72	All
Row cultivate plus directed spray	\$4.65 + material	All
Scouting, once a week	\$3.50	None
Staple herbicide banded application (0.6 oz)	\$12.00	Most
Treflan, Triple K application (1.25 pints)	\$9.94	AG 579, 582
Treflan, Incorporator application (0.75 pints)	\$6.41	Most

\* Machinery costs per acre assume that each machine is fully utilized on the farm.

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