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Costs, Yields, and Net Returns, Commercial Ultra-Narrow Row Cotton Production, Mississippi, 1999

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Abstract

An analysis of a 1999 sample of 13 no-till producers indicates that over a reasonable range of cotton lint prices, ultra narrow cotton production may result in larger net returns per acre than conventional production practices. The largest percentage cost reduction is in fixed expenses. In general, total direct expenses per acre are also reduced, although UNRC usually results in higher seed and chemical expenses. UNRC has a lower total cost per pound compared to conventional cotton.

Keywords: UNRC, No-Till, cost of production, yield, stripper, harvest

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TABLE OF CONTENTS

Abstract i 1

Acknowledgements????????????????????????????..**2**

Foreword????????????????????????????????..**3**

Introduction????????????????????????????????..**4**

Methodology????????????????????????????????**5**

Study Area????????????????????????????????...**6**

Results????????????????????????????????..**6**

Summary????????????????????????????????..**9**

Limitations????????????????????????????????.**10**

List of Tables

Effect of Ultra Narrow Row Cotton (UNRC) and Conventional Cotton (CONVC) on yield (pounds of lint per acre), Georgia, 1998??????????.?.12

Effect of Ultra Narrow Row Cotton (UNRC) and Conventional Cotton (CONVC) on yield (pounds of lint per acre), selected locations, 1998????????..13

Yield (pounds of lint per acre), tillage and variety type by production system and region, Mississippi, 1999??????????????????????..14

Selected Per Acre Cost Items by Production System and Region, Mississippi,

1999??????????????????????????????..15

Estimated per acre net returns above total specified expenses by production system and region, selected prices of cotton lint, and improvement in net returns due to UNRC (UNRC minus standard)????????????????.16

Literature Cited??????????????????????????????..17

Appendix A

Appendix B

Appendix C

Costs, Yields, and Net Returns, Commercial Ultra-Narrow Row Cotton Production, Mississippi, 1999

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Abstract

An analysis of a 1999 sample of 13 no-till producers indicates that over a reasonable range of cotton lint prices, ultra narrow row cotton production may result in larger net returns per acre than conventional production practices. The largest percentage cost reduction is in fixed expenses. In general, total direct expenses per acre are also reduced, although UNRC usually results in higher seed and chemical expenses. UNRC has a lower total cost per pound compared to conventional cotton.

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Foreword

The current high cost of producing cotton and its low price which has persisted for several years has resulted in negative returns for many Mississippi growers. Some growers with the highest whole-farm yields have been able to maintain positive returns with standard or conventional production practices, but their rate of return has greatly diminished.

This report is one in a series which examines the net returns associated with alternative systems of cotton production. It summarizes the experience of 13 Mississippi cotton growers with ultra narrow row cotton (UNRC) production in 1999.

The data presented in this report is limited to the Delta and Brown Loam. UNRC growers in Mississippi?s other cotton producing regions will be included in future research activities. This report is written for individuals with an above average knowledge of cotton production that desire information on UNRC cotton, even though this study is based on limited observations. Serious readers may find the appendixes helpful. They provide the details of how these 13 growers produced UNRC in 1999.

Introduction

Ultra narrow row cotton (UNRC) has received cyclical interest and attention over the past 40 years (Bader, et al). The introduction of new varieties, weed control options, and improvement in equipment technology have increased the probability that drill seeded cotton can be grown profitably. The development of broad spectrum over-the-top weed control technology and herbicide-tolerant varieties, precision drills, and close-row planters have stimulated recent interest.

Determining the optimum row width and spacing of cotton has been of interest for many years. Cooke and Meade (1911) reported that rainy weather and highly productive soil may cause a higher percentage of vegetative branches to develop at the expense of fruiting branches. Brown, in 1927, reported that close spacing is conducive to early maturity because it results in a higher percentage of primary bolls. Brown (1937) reported that the length of the mainstem is determined mainly by soil and water conditions, although differences by variety were acknowledged.

Kirk, Brashears, and Hudspeth examined the influence of row width and plant spacing on cotton production practices and yields on the Texas High Plains and reported their results in 1969. Sappingfield, et al (1969) and Anderson (1973) reported that narrow rows produced more yield, were earlier, and resulted in shorter plants than wide rows.

Table 1 reports the effect of UNRC and conventional cotton on yields in a 1998 demonstration. The higher yielding locations were irrigated. UNRC out-yielded conventional cotton in six of the seven demonstrations and the average difference was 185 pounds of lint per acre.

Table 2 summarizes yield results from several states in side by side UNRC versus conventional tests. The six comparisons resulted in an average increase of 73 pounds of lint per acre for UNRC when compared to conventionally produced cotton.

Methodology

During the 1999 production season, detailed information on every trip-across-the-field was taken from 13 commercial operations that employed UNRC production techniques on all or a significant part of their acreage. In most cases, (9), actual yields were recorded. At four locations MAFES personnel estimated yields by harvesting large blocks with a commercial stripper. The information was utilized to construct per acre budget tables (See Appendix Tables A, B, and C) for each of the operations (Spurlock and Laughlin).

The Department of Agricultural Economics, Mississippi State University, releases estimates of the per acre cost of production cotton on an annual basis. The Department?s standard cotton budget labeled ?Solid cotton, sandy soil, 8-row equipment, Delta Area? for the 1999 season (Robinson, p.6) reports total direct expenses per acre of $454.16. Total

fixed expenses per acre are estimated at $82.93. Total specified expenses, the sum of direct and fixed expenses, based on a yield of 825 pounds of lint per acre, are $537.09 per acre. A cost of $22.00 per acre for boll weevil eradication was added to the standard budget, increasing total direct expenses to $476.16 per acre.

The Department?s standard cotton budget for the Brown Loam labeled, ?Cotton, 8-row equipment, Brown Loam Area?, (Robinson, page 42), reports total direct expenses of $427.74. Total fixed expenses are estimated at $73.91. Total specified expenses are $501.65. A cost of $24.00 per acre for boll weevil eradication was added to the standard budget, increasing total direct expenses to $525.65.

The standard or conventional budgets are employed to compare net returns above total specified expenses for the conventional or standard methods of production and the 13 UNRC operations at $0.50, $0.60, and $0.70 per pound of lint. The price of cottonseed was fixed at $0.05 per pound.

Study Area

Eight of the cooperating farms (labeled grower 01-08) are located in the Brown Loam and five (labeled grower 09-13) are located in the Delta Region of the state. The Delta region is comprised of alluvial soils (water deposited) and generally lies west of the Mississippi River, south of Memphis, and north of Vicksburg. It varies in width from a few miles to more than 75 miles.

The Brown Loam region is located immediately east of the Delta. It is comprised of loess soils (wind blown). It ranges in width from less than 20 miles to approximately 60 miles. Both regions experienced a drought in 1999 and in most cases yields were depressed.

Results

The estimated per acre resource use and costs for field operations is reported in Appendix A, Tables 1-13 for growers 01-13. A summary of per acre costs and returns is listed in Appendix B. Additional detail is provided for direct expenses items in Appendix C. Genetically modified seed (GMS) was utilized by most of the UNRC growers. The standard budget employs conventional seed. The UNRC budgets reflect the cost of boll weevil eradication. Boll weevil eradication costs were added to the standard budgets.

Table 3 reports the yield, tillage system, and variety type for the 13 growers and the two standard or conventional budgets. Seven of the growers employed double-stack GMS, labeled ?BtRR?. Three of the growers utilized BXN variety type. Two growers employed

Bt varieties and only one UNRC grower employed a conventional variety.

All UNRC production is no-till after planting. Seven of the growers produced their cotton no-till while six employed tillage prior to planting.

The standard yields are 725 and 825 pounds of lint per acre for the Brown Loam and Delta respectively. Only two of the growers in the Brown Loam produced yields larger than the standard (725). Two of the five growers in the Delta produced yields in excess of 825 pounds of lint per acre.

Selected per acre cost items are reported in Table 4. Seed costs per acre were always higher for UNRC when compared to conventional, because more pounds of seed are required per acre. Most UNRC growers experience a seed technology fee for the GMS.

Generally there are no differences in fertilizer costs per acre. However, a few UNRC growers cut the rates, and used the cheapest sources resulting in fertilizer costs in the $20 per acre range or approximately half of the standard.

Only two of the growers in the Brown Loam experienced herbicide costs greater than the standard. Two additional growers had herbicide costs that were essentially equal to the standard. Four growers had herbicide costs substantially less than the standard. In the Delta, two of the five growers experienced herbicide costs greater than the standard.

1999 was a year with low insect pressure. The standard budgets reflect average or expected levels of insecticide use. In Table 4, all UNRC budgets have insecticide costs less than the standard, even when the GMS technology fee is considered.

Dollars per acre devoted to operator labor was less in all 13 UNRC budgets. The same is true for dollars per acre required for diesel fuel and repairs and maintenance. These items are related to trips-over-the-field.

Direct expenses per acre were uniformly less for UNRC than for the standard or conventional. Estimated fixed expenses were also less in every case. The per acre reduction in fixed expenses is consistent with the $30.10 per acre reduction reported by Wilson, et al. However, it is expected that the fixed expense estimates reported in Table 4 will be reduced another 25% to 30% when better estimates are obtained of the annual hours of use (number of acres per year) for the UNRC equipment.

Table 5 reports net returns per acre above total specified expenses for UNRC and conventional or standard practices and the difference (UNRC minus standard) or improvement due to UNRC when compared to the standard. When the price of cotton lint is $0.50 per pound, the standard budget loses $106.96 per acre in the Brown Loam. Three of the eight UNRC budgets have positive net returns. The improvement due to UNRC in the Brown Loam, at $0.50 per pound, ranges from $30 to more than $131 per acre.

Three of the five Delta budgets at $0.50 per pound produce positive returns ranging from approximately $25 to $71 per acre compared to the standard which loses $82.65 per acre. The improvement due to UNRC ranges from approximately $60 to $150 per acre. At $0.50 per pound the average improvement due to UNRC is $86.23 per acre.

At $0.60 per pound of lint the standard Brown Loam budget loses $34.46 per acre and the standard Delta budget loses $0.15 per acre. Five of the eight Brown Loam budgets result in positive net returns ranging from less than $10 to more than $90 per acre. All the UNRC budgets for the Delta have estimated net returns that are positive. They range from about $36 to more than $160 per acre. At $0.50 and $0.60 per pound of lint, all 13 of the UNRC budgets are superior to the standard.

At $0.70 per pound of lint, 11 of the 13 UNRC budgets provide estimates of net return that are larger than the standard. Because the 1999 actual yields for the 13 UNRC growers tended to be less than the budget yields for the standard or conventional practices, as price increased from $0.50 to $0.70, the tendency is for the difference between UNRC and the standard to narrow. However, when the UNRC yields approach (or exceed) the standard yield, the difference in net returns between the two systems will increase as price increases. The situation was observed with grower 04, 05, 09, and 12.

Summary

At a low price, $0.50 per pound of lint, even though seven of the 13 UNRC budgets indicate negative net returns, all 13 UNRC growers experienced net returns which were superior to those experienced by the standard budget for the region. The average improvement in returns due to UNRC was $86.23 per acre.

When the price of cotton lint is $0.60, even though both of the standard budgets indicate negative net returns, ten of the 13 UNRC budgets indicate positive net returns and all 13 indicate returns greater than the standard. The average improvement due to UNRC was estimated at $79.45 per acre.

At a relatively high price, $0.70 per pound of lint, net returns per acre for the standard budget in the Delta region is $82.35. All of the Delta UNRC growers exceeded that amount, ranging from approximately $97 to $258 per acre. At $0.70 per pound of lint, six of the eight UNRC growers in the Brown Loam made higher net returns than the Brown Loam standard. The average improvement in returns due to UNRC was $72.66 per acre.

Over a reasonable range of prices, this sample of 13 UNRC growers, based on their actual 1999 yields and estimated costs, are better off than the standard or conventional budgets based on expected yields and costs. As the price of lint increases from $0.50 to

$0.70, the improvement in returns, on average, becomes smaller. However, for the four UNRC growers with the largest yields, the improvement in returns become larger.

Limitations

The observed UNRC yields are probably biased downward due to the lack of rainfall. The standard of conventional yields of 725 and 825 pounds of lint per acre is an expected or average yield and may be biased upward for 1999 conditions. Similarly, 1999 was a year with below average insect control costs. The standard budgets reflect average insect control costs, which are probably biased upward for 1999 conditions. Reported UNRC insecticide costs for 1999 are likely biased downward when compared to long term average insecticide costs.

Mississippi cotton producers that farm the state?s highest yielding cotton soils are more likely to produce profitable crops and are less likely to shift from conventional tillage practices. As a rule, Mississippi cotton producers that have shifted to UNRC production are farming land without the highest yield potential. A larger sample of commercial UNRC cotton growers with better cotton soils will be required before the difference in UNRC and conventional or standard practices net returns can be estimated with a reasonable degree of confidence. (UNRC may not be profitable on Mississippi?s best cotton soil).

The harvest season for 1999 was excellent. UNRC acreage tends to decline following wet harvest seasons. The difference in UNRC and conventional net returns cannot be

estimated until a more representative range of harvest conditions are observed.

This study has not considered price discounts and ginning cost increases that may be associated with UNRC. With currently available technology there may be a discount associated with barkiness (Anthony, Mayfield, and Valco). In addition, UNRC contains significantly more foreign matter which lowers gin efficiency (fewer bales per unit of time) and increases direct ginning cost per bale. This increase in cost may be offset by a decline in fixed cost per bale associated with additional volume (number of bales per year). However, the general relationship between UNRC net returns experienced by the sampled producers in 1999 and expected net returns for conventionally produced cotton for 1999 does not appear to be sensitive to modest (<10%) reductions in the price of UNRC or expected increases in the cost of ginning UNRC.

Table 1. Effect of Ultra Narrow Row Cotton (UNRC) and Conventional Cotton (CONVC) on yield (pounds of lint per acre), Georgia, 1998.

		----UNRC----		---CONVC----	
County	**Irrigation**	**System**	**Yield**	**System**	**Yi**
Dooley	**Yes**	**Planter, 10?, tilled**	**1382**	**Tilled, 30?**	
		Drill, 7?, tilled	**1034**		
Jenkins	**Yes**	**Planter, 10?, no-till**	**1051**	**Strip-tilled, 36?**	
		Drill, 8?, no-till	**1295**		
Quitman	**No**	**Drill, 8?, no-till**	**808**	**Strip-tilled, 36?**	
		Drill, 8?, tilled	**513**		
Coffee	**No**	**Planter, 10?, no-till**	**591**	**Strip-tilled, 36?**	

A

Source: Bader, et al.

Table 2. Effect of Ultra Narrow Row Cotton (UNRC) and Conventional Cotton (CONVC) on yield (pounds of lint per acre), selected locations, 1998.

	----UNRC----		----CONVC----	
Location	**System**	**Yield**	**System**	**Yield**
Alabama	**Drill, 7.5?**	**832**	**Planter, 40?**	**764**
Texas	**Planter, 7.5?**	**800**	**Planter, 40?**	**625**
Georgia, Plains	**Planter, 10?**	**1102**	**Planter, 36?**	**1102**
Georgia, Midville	**Planter, 10?**	**892**	**Planter, 38?**	**1145**
Mississippi	**Drill, 7.5?**	**500**	**Planter, 40?**	**500**
Arkansas	**Drill, 10?**	**950**	**Planter, 38?**	**500**
				Average

Source: Anthony, Mayfield, and Valco

Table 3. Yield (pounds of lint per acre), tillage and variety type by production system and region, Mississippi, 1999.

Production System	Region	Grower	Variety Type	Tillage	Yiel
Standard	Brown Loam	-	Conventional	Tilled	
UNRC		01	BtRR	No-Till	
		02	BtRR	No-Till	
		03	BtRR	Tilled	
		04	BtRR	No-Till	
		05	BtRR	No-Till	
		06	Bt	No-Till	
		07	BXN	No-Till	
		08	BtRR	Tilled	
					Average (01-0
Standard	Delta	-	Conventional	Tilled	
UNRC		09	BtRR	Tilled	
		10	BXN	Tilled	
		11	BXN	Tilled	
		12	Bt	No-Till	
		13	Conventional	Tilled	
					Average (09-1

Table 4. Selected Per Acre Cost Items by Production System and Region, Mississippi, 1999.

Production System	Region	Grower	Seed	Seed Tech. Fee	Fert.	Herb.	Insect.	Operator Labor	Diesel Fuel
Standard	Brown Loam[1]	-	14.40	-	44.01	48.20	74.61	14.07	7.65
		01	35.00	41.00	47.03	45.69	14.37	9.02	3.63
		02	35.00	41.00	39.43	28.40	2.21	9.21	4.02
		03	32.80	41.00	40.20	24.63	2.21	10.72	5.76
		04	35.00	41.00	49.80	46.50	13.50	8.74	4.90
		05	35.00	41.00	49.80	32.68	12.53	8.74	3.80
		06	34.65	32.00	49.80	58.63	13.50	8.63	4.84
		07	33.25	9.00	49.80	69.95	34.51	8.74	4.90
		08	34.00	41.00	16.50	22.50	9.48	10.74	5.35
Standard	Delta[2]		14.40	-	45.04	48.89	77.51	17.50	10.17
UNRC		09	36.00	41.00	20.40	36.01	29.22	8.99	5.32
		10	38.00	9.00	31.59	26.11	24.71	10.43	10.13
		11	38.00	9.00	31.59	26.11	24.71	10.43	5.68
		12	37.62	32.00	16.44	86.01	0.00	6.27	3.57
		13	28.20	0.00	15.55	71.68	55.69	12.66	7.39

[1] Robinson et al, Tables 7.A-7.E, p. 42-45.
[2] Robinson et al, Tables 1.A-1.E, p. 6-9.

Table 5. Estimated per acre net returns above total specified expenses by production system and region, selected prices of cotton lint, and improvement in net returns due to UNRC (UNRC minus standard).

		Price	----$0.50----		----$0.60----		----$0.70
Production System	Region	Grower	Net Returns	Difference	Net Returns	Difference	Net Returns
Standard[1]	Brown Loam	-	-106.96		-34.46		38.04
UNRC		01	-54.59	52.37	7.61	42.07	69.81
		02	-76.96	30.00	-24.36	10.10	28.24
		03	-75.02	31.94	-22.02	12.44	30.98
		04	10.34	117.30	87.54	122.00	164.74
		05	17.37	124.33	91.37	125.83	165.37
		06	-25.62	81.34	44.48	78.94	114.58
		07	-63.68	43.28	-2.48	31.98	58.72
		08	24.04	131.00	89.04	123.50	154.04
Standard	Delta	-	-82.65		-0.15		82.35
UNRC		09	71.49	154.14	164.49	164.64	257.59
		10	46.04	128.69	128.04	128.19	210.04
		11	-23.66	58.99	36.64	36.79	96.94
		12	25.24	107.89	110.34	110.49	195.44
		13	-22.82	59.83	45.68	45.83	114.18
Average (01-13)				86.23		79.45	

[1] Robinson et al, Tables 7.A-7.E, p. 42-45.

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Appendix A

Appendix Table 1.A Estimated resource use and costs for field operations, per acre, Grower 01, UNRC, BtRR Variety Type, 7.5 inches,
North Brown Loam, Mississippi, 1999.

LABOR OPERATION/ OPERATING INPUT	OPERATING INPUT SIZE/ UNIT	TRACTOR SIZE	PERF RATE	TIMES OVER	MTH	TRACTOR COST DIRECT	TRACTOR COST FIXED	EQUIP COST DIRECT	EQUIP COST FIXED	ALLOC HOURS	TOTAL COST	AMOUNT	PRICE	COST	COST
						----------dollars----------					dollars			-------dollars--------	
Hi-Clear Sprayer	60'		0.033	1.00	Apr			0.58	0.98	0.033	0.27			1.84	
Roundup Ultra 4SL	pt											1.5000	5.68	8.52	8.52
Clarity	pt											0.5000	10.00	5.00	5.00
Hi-Clear Sprayer	60'		0.033	1.00	May			0.58	0.98	0.033	0.27			1.84	
Gramoxone Extra	pt											1.5000	4.41	6.62	6.62
No-Till Grain Drill	20'	170 hp	0.117	1.00	May	1.33	2.02	2.71	6.13	0.234	1.78			13.98	
Cotton Seed Bt RR	lb											35.0000	1.00	35.00	35.00
Cot tech Fee Bt RR	acre											1.0000	41.00	41.00	41.00
Eradication Zone 3	acre			1.00	May							1.0000	24.00	24.00	24.00
Hi-Clear Sprayer	60'		0.033	2.00	May			1.16	1.97	0.066	0.55			3.67	
Roundup Ultra 4SL	pt											3.0000	5.68	17.04	17.04
Bidrin 8L	oz											6.0000	0.69	4.14	4.14
Flotation Tractor	acre			1.00	Jun							1.0000	4.00	4.00	4.00
Fert 20-10-10	cwt											4.5000	10.45	47.03	47.03
Hi-Clear Sprayer	60'		0.033	1.00	Jun			0.58	0.98	0.033	0.27			1.84	
Roundup Ultra 4SL	pt											1.5000	5.68	8.52	8.52
Hi-Clear Sprayer	60'		0.033	1.00	Jun			0.58	0.98	0.033	0.27			1.84	
Vydate C-LV	oz											8.5000	0.47	4.00	4.00
Pix	oz											8.0000	0.76	6.08	6.08
Hi-Clear Sprayer	60'		0.033	1.00	Jul			0.58	0.98	0.033	0.27			1.84	
Pix	oz											16.0000	0.76	12.16	12.16
Curacron 8E	pt											0.5000	12.46	6.23	6.23

```
Hi-Clear Sprayer     60'                0.033   1.00  Aug                     0.58    0.98  0.033
0.27                              1.84
  Capture 2EC          oz
        4.0000
Hi-Clear Sprayer     60'                0.033   1.00  Aug                     0.58    0.98  0.033
0.27                              1.84
  Def 6                pt
        0.5000   5.28    2.64    2.64
  Prep                 pt
        2.0000   6.46   12.92   12.92
Hi-Clear Sprayer     60'                0.033   1.00  Sep                     0.58    0.98  0.033
0.27                              1.84
  Starfire             pt
        2.0000   4.15    8.30    8.30
Boll Buggy           4 bale   130 hp   0.220   1.00  Sep    2.01    3.22    0.95    3.01  0.220
1.83                            11.03
Module Builder       32'      130 hp   0.220   1.00  Sep    2.01    3.22    1.09    3.46  0.440
3.35                            13.13
Stripper             14'                0.198   1.00  Sep                     5.20   17.35  0.198
1.65                            24.20
Haul Cotton          lb                          1.00  Sep
      622.0000   0.02   12.44   12.44
  Gin                  lb
      622.0000   0.08   49.76   49.76
                                                        ------- ------- ------- ------- ------ -
------                  ------- -------
TOTALS                                                     5.35    8.47   15.77   39.78  1.422
11.35                   315.39  396.10
INTEREST ON OPERATING CAPITAL
                                17.69
UNALLOCATED LABOR
                                 0.00
TOTAL SPECIFIED COST
                               413.79
```

Note: Cost of production estimates are based on last year's input prices.

Appendix Table 2.A Estimated resource use and costs for field operations, per acre, Grower 02, UNRC, BtRR, 7.5 inches, North Brown Loam, Mississippi, 1999.

LABOR OPERATION/ OPERATING INPUT	SIZE/ OPERATING INPUT	TRACTOR UNIT	SIZE COST	PERF RATE	TIMES OVER	MTH	TRACTOR COST DIRECT	TRACTOR COST FIXED	EQUIP COST DIRECT	EQUIP COST FIXED	ALLOC HOURS	TOTAL COST	AMOUNT	PRICE	COST	COST
							----------dollars----------					dollars	------dollars-------			
Stalk Shredder	12'	190 hp		0.142	0.40	Oct	0.72	1.09	0.10	0.39	0.057	0.47			2.76	
Hi-Clear Sprayer	60'			0.033	1.00	Apr			0.58	0.98	0.033	0.27			1.84	
Roundup Ultra 4SL	pt												2.0000	5.68	11.36	11.36
Flotation Tractor	acre				0.60	May							0.6000	4.00	2.40	2.40
Fert 20-10-10	cwt												2.4000	10.45	25.08	25.08
Flotation Tractor	acre				0.40	May							0.4000	4.00	1.60	1.60
Fert 15-10-10	cwt												1.6000	8.97	14.35	14.35
No-Till Grain Drill	20'	190 hp		0.117	1.00	May	1.48	2.24	2.71	6.13	0.234	1.78			14.35	
Cotton Seed Bt RR	lb												35.0000	1.00	35.00	35.00
Cot tech Fee Bt RR	acre												1.0000	41.00	41.00	41.00
Eradication Zone 3	acre				1.00	May							1.0000	24.00	24.00	24.00
Hi-Clear Sprayer	60'			0.033	1.00	May			0.58	0.98	0.033	0.27			1.84	
Bidrin 8L	oz												3.2000	0.69	2.21	2.21
Hi-Clear Sprayer	60'			0.033	1.00	May			0.58	0.98	0.033	0.27			1.84	
Roundup Ultra 4SL	pt												1.5000	5.68	8.52	8.52
Hi-Clear Sprayer	60'			0.033	1.00	Jun			0.58	0.98	0.033	0.27			1.84	
Roundup Ultra 4SL	pt												1.5000	5.68	8.52	8.52
Hi-Clear Sprayer	60'			0.033	1.00	Jun			0.58	0.98	0.033	0.27			1.84	
Pix	oz												16.0000	0.76	12.16	12.16
Hi-Clear Sprayer	60'			0.033	1.00	Jul			0.58	0.98	0.033	0.27			1.84	
Pix	oz												16.0000	0.76	12.16	12.16

```
Hi-Clear Sprayer     60'                0.033   1.00  Sep                     0.58    0.98  0.033
0.27                              1.84
  Def 6                 pt
       0.5000   5.28    2.64    2.64
  Prep                  pt
       2.0000   6.46   12.92   12.92
Hi-Clear Sprayer     60'                0.033   2.00  Sep                     1.16    1.97  0.066
0.55                              3.67
  Starfire              pt
       4.0000   4.15   16.60   16.60
Boll Buggy           4 bale   130 hp   0.220   1.00  Sep    2.01    3.22    0.95    3.01  0.220
1.83                             11.03
Module Builder       32'      130 hp   0.220   1.00  Sep    2.01    3.22    1.09    3.46  0.440
3.35                             13.13
Stripper             14'                0.198   1.00  Sep                     5.20   17.35  0.198
1.65                             24.20
Haul Cotton          lb                          1.00  Oct
      526.0000   0.02   10.52   10.52
  Gin                   lb
      526.0000   0.08   42.08   42.08
                                                        ------- ------- ------- ------- ------ -
------                   ------- -------
TOTALS                                                     6.22    9.78   15.29   39.18  1.446
11.54                    283.12  365.13
INTEREST ON OPERATING CAPITAL
                                 15.63
UNALLOCATED LABOR
                                  0.00
TOTAL SPECIFIED COST
                                380.76
_____________________________________________________________________________________________
_____________________________________
Note: Cost of production estimates are based on last year's input prices.
```

Appendix Table 3.A Estimated resource use and costs for field operations, per acre, Grower 03, UNRC, BtRR Variety Type, 7.5 inches, North Brown Loam, Mississippi, 1999.

LABOR OPERATION/ OPERATING INPUT	OPERATING INPUT SIZE/ UNIT	TRACTOR SIZE	PERF RATE	TIMES OVER	MTH	TRACTOR COST DIRECT	TRACTOR COST FIXED	EQUIP COST DIRECT	EQUIP COST FIXED	ALLOC HOURS	TOTAL COST	AMOUNT	PRICE	COST	COST
						dollars	dollars	dollars	dollars		dollars			dollars	dollars
Disk Harrow	24'	190 hp	0.078	1.00	Oct	0.99	1.50	0.58	1.15	0.078	0.65			4.87	
Chisel Plow	16'	190 hp	0.117	1.00	Feb	1.48	2.24	0.28	0.68	0.117	0.97			5.65	
Flotation Tractor	acre			1.00	Feb							1.0000	4.00	4.00	4.00
Fert 0-25-30	cwt											2.0000	12.05	24.10	24.10
Row Cond (Harrow)	21'	190 hp	0.069	1.00	Feb	0.87	1.32	0.36	0.77	0.069	0.57			3.90	
Flotation Tractor	acre			1.00	Apr							1.0000	4.00	4.00	4.00
Amm Nitrate (34% N)	cwt											1.7600	9.15	16.10	16.10
Field Cult & Inc	24'	190 hp	0.063	1.00	Apr	0.80	1.21	0.61	1.47	0.095	0.74			4.83	
Prowl 3.3 EC	pt											1.5000	3.16	4.74	4.74
No-Till Grain Drill	20'	150 hp	0.117	1.00	May	1.21	1.89	2.71	6.13	0.234	1.78			13.73	
Cotton Seed Bt RR	lb											32.8000	1.00	32.80	32.80
Cot tech Fee Bt RR	acre											1.0000	41.00	41.00	41.00
Eradication Zone 3	acre			1.00	May							1.0000	24.00	24.00	24.00
Hi-Clear Sprayer	60'		0.033	1.00	May			0.58	0.98	0.033	0.27			1.84	
Roundup Ultra 4SL	pt											1.5000	5.68	8.52	8.52
Bidrin 8L	oz											3.2000	0.69	2.21	2.21
Hi-Clear Sprayer	60'		0.033	0.60	Jun			0.35	0.59	0.020	0.16			1.10	
Roundup Ultra 4SL	pt											0.9000	5.68	5.11	5.11
Hi-Clear Sprayer	60'		0.033	1.00	Jun			0.58	0.98	0.033	0.27			1.84	
Pix	oz											8.0000	0.76	6.08	6.08
Hi-Clear Sprayer	60'		0.033	1.00	Jun			0.58	0.98	0.033	0.27			1.84	

```
  Pix                   oz
       16.0000   0.76   12.16   12.16
Hi-Clear Sprayer     60'                0.033   0.40  Jul                     0.23    0.39  0.013
0.11                              0.73
  Pix                   oz
        6.4000   0.76    4.86    4.86
Hi-Clear Sprayer     60'                0.033   0.30  Jul                     0.17    0.29  0.010
0.08                              0.55
  Staple                oz
        0.3000  20.85    6.26    6.26
Hi-Clear Sprayer     60'                0.033   1.00  Aug                     0.58    0.98  0.033
0.27                              1.84
  Prep                  pt
        1.5000   6.46    9.69    9.69
  Def 6                 pt
        1.0000   5.28    5.28    5.28
Hi-Clear Sprayer     60'                0.033   1.00  Sep                     0.58    0.98  0.033
0.27                              1.84
  Starfire              pt
        1.5000   4.15    6.23    6.23
Boll Buggy           4 bale   150 hp   0.220   1.00  Sep    2.27    3.56    0.95    3.01  0.220
1.83                             11.63
Module Builder       32'      150 hp   0.220   1.00  Sep    2.27    3.56    1.09    3.46  0.440
3.35                             13.73
Stripper             14'                0.198   1.00  Sep                     5.20   17.35  0.198
1.65                             24.20
Haul Cotton          lb                         1.00  Sep
      530.0000   0.02   10.60   10.60
  Gin                   lb
      530.0000   0.08   42.40   42.40
                                                        ------- ------- ------- ------- ------ -
------                  ------- -------
TOTALS                                                     9.89   15.29   15.46   40.22  1.658
13.27                   270.14  364.25
INTEREST ON OPERATING CAPITAL
                                 16.87
UNALLOCATED LABOR
                                  0.00
TOTAL SPECIFIED COST
                                381.12
```

Note: Cost of production estimates are based on last year's input prices.

Appendix Table 4.A Estimated resource use and costs for field operations, per acre, Grower 04, UNRC, BtRR, 7.5 inches, North Brown Loam, Mississippi, 1999.

LABOR OPERATION/ OPERATING INPUT	OPERATING INPUT COST	OPERATING INPUT AMOUNT	OPERATING INPUT PRICE	SIZE/ UNIT COST	TRACTOR SIZE/ TOTAL COST	PERF RATE	TIMES OVER	MTH	TRACTOR COST DIRECT	TRACTOR COST FIXED	EQUIP COST DIRECT	EQUIP COST FIXED	ALLOC HOURS
	dollars			-------dollars--------					----------dollars----------				
Spray (Broadcast)				60'	150 hp	0.027	1.00	Apr	0.28	0.44	0.08	0.12	0.041
0.32					1.23								
Roundup Ultra 4SL		1.5000	5.68	pt 8.52	8.52								
Clarity		0.5000	10.00	pt 5.00	5.00								
Flotation Tractor				acre			1.00	Apr					
		1.0000	4.00	4.00	4.00								
Fert 20-12-20		4.0000	12.45	cwt 49.80	49.80								
Spray (Broadcast)				60'	150 hp	0.027	1.00	May	0.28	0.44	0.08	0.12	0.041
0.32					1.23								
Gramoxone Extra		1.5000	4.41	pt 6.62	6.62								
Clarity		0.5000	10.00	pt 5.00	5.00								
No-Till Grain Drill				20'	150 hp	0.117	1.00	May	1.21	1.89	2.71	6.13	0.234
1.78					13.73								
Cotton Seed Bt RR		35.0000	1.00	lb 35.00	35.00								
Cot tech Fee Bt RR		1.0000	41.00	acre 41.00	41.00								
Eradication Zone 3				acre			1.00	May					
		1.0000	24.00	24.00	24.00								
Spray (Broadcast)				60'	150 hp	0.027	1.00	May	0.28	0.44	0.08	0.12	0.041
0.32					1.23								
Baythroid 2		0.8000	3.14	oz 2.51	2.51								
Spray (Broadcast)				60'	150 hp	0.027	1.00	Jun	0.28	0.44	0.08	0.12	0.041
0.32					1.23								
Baythroid 2		1.5000	3.14	oz 4.71	4.71								
Spray (Broadcast)				60'	150 hp	0.027	1.00	Jun	0.28	0.44	0.08	0.12	0.041
0.32					1.23								
Roundup Ultra 4SL		1.0000	5.68	pt 5.68	5.68								
Clarity		0.5000	10.00	pt 5.00	5.00								
Spray (Broadcast)				60'	150 hp	0.027	1.00	Jun	0.28	0.44	0.08	0.12	0.041
0.32					1.23								
Pix		16.0000	0.76	oz 12.16	12.16								
Spray (Broadcast)				60'	150 hp	0.027	1.00	Jun	0.28	0.44	0.08	0.12	0.041
0.32					1.23								
Roundup Ultra 4SL		1.0000	5.68	pt 5.68	5.68								

```
  Clarity              pt
        0.5000  10.00    5.00    5.00
Spray (Broadcast)    60'      150 hp   0.027   1.00  Jul    0.28    0.44    0.08    0.12  0.041
0.32                             1.23
  Pix                  oz
      16.0000   0.76   12.16   12.16
Spray (Broadcast)    60'      150 hp   0.027   1.00  Jul    0.28    0.44    0.08    0.12  0.041
0.32                             1.23
  Pix                  oz
        8.0000   0.76    6.08    6.08
  Baythroid 2          oz
        2.0000   3.14    6.28    6.28
Spray (Broadcast)    60'      150 hp   0.027   1.00  Sep    0.28    0.44    0.08    0.12  0.041
0.32                             1.23
  Def 6                pt
        0.5000   5.28    2.64    2.64
  Prep                 pt
        1.5000   6.46    9.69    9.69
Spray (Broadcast)    60'      150 hp   0.027   1.00  Sep    0.28    0.44    0.08    0.12  0.041
0.32                             1.23
  Starfire             pt
        1.5000   4.15    6.23    6.23
Boll Buggy           4 bale   150 hp   0.220   1.00  Sep    2.27    3.56    0.95    3.01  0.220
1.83                            11.63
Module Builder       32'      150 hp   0.220   1.00  Sep    2.27    3.56    1.09    3.46  0.440
3.35                            13.73
Stripper             14'                0.198   1.00  Sep                    5.20   17.35  0.198
1.65                            24.20
Haul Cotton          lb                         1.00  Oct
      772.0000   0.02   15.44   15.44
  Gin                  lb
      772.0000   0.08   61.76   61.76
                                                       ------- ------- ------- ------- ------ -
------                   ------- -------
TOTALS                                                    8.82   13.83   10.85   31.25  1.538
12.10                    339.95  416.80
INTEREST ON OPERATING CAPITAL
                                18.71
UNALLOCATED LABOR
                                 0.00
TOTAL SPECIFIED COST
                               435.51
```

Note: Cost of production estimates are based on last year's input prices.

Appendix Table 5.A Estimated resource use and costs for field operations, per acre, Grower 05, UNRC, BtRR Variety Type, 7.5 inches,
North Brown Loam, Mississippi, 1999.

```
                                                                                  TRACTOR COST     EQUIP COST     ALLOC
LABOR       OPERATING INPUT
OPERATION/           SIZE/    TRACTOR   PERF  TIMES       --------------  --------------  -------
------   ---------------------   TOTAL
  OPERATING INPUT      UNIT     SIZE    RATE   OVER  MTH  DIRECT   FIXED  DIRECT   FIXED  HOURS
COST   AMOUNT   PRICE    COST    COST
                                                                  ------------dollars-----------
dollars          -------dollars--------


Hi-Clear Sprayer     60'                0.033   1.00  Apr                     0.58    0.98  0.033
0.27                              1.84
  Roundup Ultra 4SL    pt
        1.5000   5.68    8.52    8.52
  Clarity              pt
        0.0500  10.00    0.50    0.50
Hi-Clear Sprayer     60'                0.033   1.00  May                     0.58    0.98  0.033
0.27                              1.84
  Gramoxone Extra      pt
        1.5000   4.41    6.62    6.62
Flotation Tractor    acre                        1.00  May
        1.0000   4.00    4.00    4.00
  Fert 20-12-20       cwt
                4.0000  12.45   49.80   49.80
No-Till Grain Drill  20'      150 hp   0.117   1.00  May    1.21    1.89    2.71    6.13  0.234
1.78                             13.73
  Cotton Seed Bt RR    lb
               35.0000   1.00   35.00   35.00
  Cot tech Fee Bt RR acre
                1.0000  41.00   41.00   41.00
Eradication Zone 3   acre                        1.00  May
        1.0000  24.00   24.00   24.00
Hi-Clear Sprayer     60'                0.033   1.00  May                     0.58    0.98  0.033
0.27                              1.84
  Roundup Ultra 4SL    pt
        1.5000   5.68    8.52    8.52
  Bidrin 8L            oz
        3.0000   0.69    2.07    2.07
Hi-Clear Sprayer     60'                0.033   1.00  Jun                     0.58    0.98  0.033
0.27                              1.84
  Roundup Ultra 4SL    pt
        1.5000   5.68    8.52    8.52
Hi-Clear Sprayer     60'                0.033   1.00  Jun                     0.58    0.98  0.033
0.27                              1.84
  Pix                  oz
        8.0000   0.76    6.08    6.08
  Vydate C-LV          oz
        9.0000   0.47    4.23    4.23
Hi-Clear Sprayer     60'                0.033   1.00  Jul                     0.58    0.98  0.033
0.27                              1.84
  Pix                  oz
       16.0000   0.76   12.16   12.16
```

```
  Curacron 8E          pt
        0.5000  12.46    6.23    6.23
Hi-Clear Sprayer     60'                0.033   1.00  Aug                     0.58    0.98  0.033
0.27                              1.84
  Capture 2EC          oz
        4.0000
Hi-Clear Sprayer     60'                0.033   1.00  Aug                     0.58    0.98  0.033
0.27                              1.84
  Def 6                pt
        0.5000   5.28    2.64    2.64
  Prep                 pt
        2.0000   6.46   12.92   12.92
Hi-Clear Sprayer     60'                0.033   1.00  Sep                     0.58    0.98  0.033
0.27                              1.84
  Starfire             pt
        2.0000   4.15    8.30    8.30
Boll Buggy           4 bale   150 hp   0.220   1.00  Sep    2.27    3.56    0.95    3.01  0.220
1.83                             11.63
Module Builder       32'      150 hp   0.220   1.00  Sep    2.27    3.56    1.09    3.46  0.440
3.35                             13.73
Stripper             14'                0.198   1.00  Sep                     5.20   17.35  0.198
1.65                             24.20
Haul Cotton          lb                         1.00  Sep
      740.0000   0.02   14.80   14.80
  Gin                  lb
      710.0000   0.08   56.80   56.80
                                                        ------- ------- ------- ------- ------ -
------                   ------- -------
TOTALS                                                     5.75    9.02   15.19   38.80  1.389
11.07                    312.71  392.53
INTEREST ON OPERATING CAPITAL
                                 17.55
UNALLOCATED LABOR
                                  0.00
TOTAL SPECIFIED COST
                                410.08
_____________________________________________________________________________________________
_____________________________________
Note: Cost of production estimates are based on last year's input prices.
```

Appendix Table 6.A Estimated resource use and costs for field operations, per acre, Grower 06, UNRC, Bt Variety Type, 7.5 inches,
North Brown Loam, Mississippi, 1999.

LABOR OPERATION/ OPERATING INPUT	OPERATING INPUT COST	AMOUNT	PRICE	SIZE/ UNIT COST	TRACTOR SIZE/ TOTAL COST	PERF RATE	TIMES OVER	MTH	TRACTOR COST DIRECT	TRACTOR COST FIXED	EQUIP COST DIRECT	EQUIP COST FIXED	ALLOC HOURS
	dollars			-------dollars--------					----------dollars----------				
Spray (Broadcast)				60'	150 hp	0.027	1.00	Apr	0.28	0.44	0.08	0.12	0.041
0.32					1.23								
Roundup Ultra 4SL				pt									
		1.5000	5.68	8.52	8.52								
Clarity				pt									
		0.5000	10.00	5.00	5.00								
Flotation Tractor				acre			1.00	Apr					
		1.0000	4.00	4.00	4.00								
Fert 20-12-20				cwt									
		4.0000	12.45	49.80	49.80								
Spray (Broadcast)				60'	150 hp	0.027	1.00	May	0.28	0.44	0.08	0.12	0.041
0.32					1.23								
Gramoxone Extra				pt									
		1.5000	4.41	6.62	6.62								
Clarity				pt									
		0.5000	10.00	5.00	5.00								
No-Till Grain Drill				20'	150 hp	0.117	1.00	May	1.21	1.89	2.71	6.13	0.234
1.78					13.73								
Bt Cotton Seed				lb									
		35.0000	0.99	34.65	34.65								
Bt Cotton Fee				acre									
		1.0000	32.00	32.00	32.00								
Eradication Zone 3				acre			1.00	May					
		1.0000	24.00	24.00	24.00								
Spray (Broadcast)				60'	150 hp	0.027	1.00	May	0.28	0.44	0.08	0.12	0.041
0.32					1.23								
Baythroid 2				oz									
		0.8000	3.14	2.51	2.51								
Spray (Broadcast)				60'	150 hp	0.027	1.00	Jun	0.28	0.44	0.08	0.12	0.041
0.32					1.23								
Baythroid 2				oz									
		1.5000	3.14	4.71	4.71								
Spray (Broadcast)				60'	150 hp	0.027	1.00	Jun	0.28	0.44	0.08	0.12	0.041
0.32					1.23								
Staple				oz									
		0.6000	20.85	12.51	12.51								
Poast				pt									
		1.0000	9.82	9.82	9.82								
Spray (Broadcast)				60'	150 hp	0.027	1.00	Jun	0.28	0.44	0.08	0.12	0.041
0.32					1.23								
Pix				oz									
		16.0000	0.76	12.16	12.16								
Spray (Broadcast)				60'	150 hp	0.027	0.50	Jun	0.14	0.22	0.04	0.06	0.020
0.16					0.62								
Staple				oz									
		0.3000	20.85	6.26	6.26								

```
  Poast                 pt
        0.5000   9.82    4.91    4.91
Spray (Broadcast)    60'      150 hp   0.027   1.00  Jul    0.28    0.44    0.08    0.12  0.041
0.32                             1.23
  Pix                   oz
      16.0000   0.76   12.16   12.16
Spray (Broadcast)    60'      150 hp   0.027   1.00  Jul    0.28    0.44    0.08    0.12  0.041
0.32                             1.23
  Pix                   oz
        8.0000   0.76    6.08    6.08
  Baythroid 2           oz
        2.0000   3.14    6.28    6.28
Spray (Broadcast)    60'      150 hp   0.027   1.00  Sep    0.28    0.44    0.08    0.12  0.041
0.32                             1.23
  Def 6                 pt
        0.5000   5.28    2.64    2.64
  Prep                  pt
        1.5000   6.46    9.69    9.69
Spray (Broadcast)    60'      150 hp   0.027   1.00  Sep    0.28    0.44    0.08    0.12  0.041
0.32                             1.23
  Starfire              pt
        1.5000   4.15    6.23    6.23
Boll Buggy           4 bale   150 hp   0.220   1.00  Sep    2.27    3.56    0.95    3.01  0.220
1.83                            11.63
Module Builder       32'      150 hp   0.220   1.00  Sep    2.27    3.56    1.09    3.46  0.440
3.35                            13.73
Stripper             14'                0.198   1.00  Sep                    5.20   17.35  0.198
1.65                            24.20
Haul Cotton          lb                         1.00  Oct
      701.0000   0.02   14.02   14.02
  Gin                   lb
      701.0000   0.08   56.08   56.08
                                                       ------- ------- ------- ------- ------ -
------                   ------- -------
TOTALS                                                    8.68   13.61   10.81   31.19  1.517
11.94                    335.64  411.87
INTEREST ON OPERATING CAPITAL
                                18.60
UNALLOCATED LABOR
                                 0.00
TOTAL SPECIFIED COST
                               430.47
```

Note: Cost of production estimates are based on last year's input prices.

Appendix Table 7.A Estimated resource use and costs for field operations, per acre, Grower 07, UNRC, BXN Variety Type, 7.5 inches, North Brown Loam, Mississippi, 1999.

LABOR OPERATION/ OPERATING INPUT	OPERATING INPUT SIZE/ UNIT	TRACTOR SIZE	PERF RATE	TIMES OVER	MTH	TRACTOR COST DIRECT	TRACTOR COST FIXED	EQUIP COST DIRECT	EQUIP COST FIXED	ALLOC HOURS	COST	AMOUNT	PRICE	COST	TOTAL COST
						----------dollars----------					dollars			-------dollars--------	
Spray (Broadcast)	60'	150 hp	0.027	1.00	Apr	0.28	0.44	0.08	0.12	0.041	0.32			1.23	
Roundup Ultra 4SL	pt											1.5000	5.68	8.52	8.52
Clarity	pt											0.5000	10.00	5.00	5.00
Flotation Tractor	acre			1.00	Apr							1.0000	4.00	4.00	4.00
Fert 20-10-10	cwt											4.0000	12.45	49.80	49.80
Spray (Broadcast)	60'	150 hp	0.027	1.00	May	0.28	0.44	0.08	0.12	0.041	0.32			1.23	
Gramoxone Extra	pt											1.5000	4.41	6.62	6.62
Clarity	pt											0.5000	10.00	5.00	5.00
No-Till Grain Drill	20'	150 hp	0.117	1.00	May	1.21	1.89	2.71	6.12	0.234	1.78			13.73	
Cotton Seed BXN	lb											35.0000	0.95	33.25	33.25
Cot tech Fee BXN	acre											1.0000	9.00	9.00	9.00
Eradication Zone 3	acre			1.00	May							1.0000	24.00	24.00	24.00
Spray (Broadcast)	60'	150 hp	0.027	1.00	May	0.28	0.44	0.08	0.12	0.041	0.32			1.23	
Baythroid 2	oz											0.8000	3.14	2.51	2.51
Spray (Broadcast)	60'	150 hp	0.027	0.50	Jun	0.14	0.22	0.04	0.06	0.020	0.16			0.62	
Karate	oz											4.0000	1.88	7.52	7.52
Spray (Broadcast)	60'	150 hp	0.027	0.50	Jun	0.14	0.22	0.04	0.06	0.020	0.16			0.62	
Baythroid 2	oz											0.7500	3.14	2.36	2.36
Spray (Broadcast)	60'	150 hp	0.027	1.00	Jun	0.28	0.44	0.08	0.12	0.041	0.32			1.23	
Buctril 4EC	pt											1.0000	13.25	13.25	13.25
Poast	pt											1.0000	9.82	9.82	9.82
Spray (Broadcast)	60'	150 hp	0.027	1.00	Jun	0.28	0.44	0.08	0.12	0.041	0.32			1.23	
Pix	oz											16.0000	0.76	12.16	12.16
Spray (Broadcast)	60'	150 hp	0.027	0.50	Jun	0.14	0.22	0.04	0.06	0.020	0.16			0.62	
Buctril 4EC	pt											0.5000	13.25	6.63	6.63
Poast	pt											0.5000	9.82	4.91	4.91
Staple	oz											0.3000	20.85	6.26	6.26
Spray (Broadcast)	60'	150 hp	0.027	1.00	Jul	0.28	0.44	0.08	0.12	0.041	0.32			1.23	

```
  Pix                    oz
        8.0000   0.76    6.08    6.08
Spray (Broadcast)    60'       150 hp   0.027   0.50  Jul    0.14    0.22    0.04    0.06  0.020
0.16                              0.62
  Curacron 8E            pt
        0.5000  12.46    6.23    6.23
Spray (Broadcast)    60'       150 hp   0.027   0.50  Aug    0.14    0.22    0.04    0.06  0.020
0.16                              0.62
  Curacron 8E            pt
        0.2500  12.46    3.12    3.12
  Tracer                 oz
        0.5000   5.84    2.92    2.92
  Methyl 4EC             pt
        0.2500   3.50    0.88    0.88
  Select 2EC             oz
        3.0000   1.32    3.96    3.96
Spray (Broadcast)    60'       150 hp   0.027   0.50  Aug    0.14    0.22    0.04    0.06  0.020
0.16                              0.62
  Curacron 8E            pt
        0.5000  12.46    6.23    6.23
  Larvin 3.2             oz
        6.4000   0.43    2.75    2.75
Spray (Broadcast)    60'       150 hp   0.027   1.00  Sep    0.28    0.43    0.08    0.12  0.041
0.32                              1.23
  Def 6                  pt
        0.5000   5.28    2.64    2.64
  Prep                   pt
        1.5000   6.46    9.69    9.69
Spray (Broadcast)    60'       150 hp   0.027   1.00  Sep    0.28    0.43    0.08    0.12  0.041
0.32                              1.23
  Starfire               pt
        1.5000   4.15    6.23    6.23
Boll Buggy           4 bale    150 hp   0.220   1.00  Sep    2.27    3.56    0.95    3.01  0.220
1.83                             11.63
Module Builder       32'       150 hp   0.220   1.00  Sep    2.27    3.56    1.09    3.46  0.440
3.35                             13.73
Stripper             14'                0.198   1.00  Sep                    5.20   17.35  0.198
1.65                             24.20
Haul Cotton          lb                         1.00  Oct
      612.0000   0.02   12.24   12.24
  Gin                    lb
      612.0000   0.08   48.96   48.96
                                                        ------- ------- ------- ------- ------ -
------                  ------- -------
TOTALS                                                     8.82   13.83   10.85   31.25  1.538
12.10                   322.51  399.35
INTEREST ON OPERATING CAPITAL
                                 17.77
UNALLOCATED LABOR
                                  0.00
TOTAL SPECIFIED COST
                                417.13
```

Note: Cost of production estimates are based on last year's input prices.

Appendix Table 8.A Estimated resource use and costs for field operations, per acre, Grower 08, UNRC, BtRR Variety Type, 7.5 inches, South Brown Loam, Mississippi, 1999.

LABOR OPERATION/	OPERATING INPUT SIZE/	TRACTOR SIZE	PERF RATE	TIMES OVER	MTH	TRACTOR COST DIRECT	TRACTOR COST FIXED	EQUIP COST DIRECT	EQUIP COST FIXED	ALLOC HOURS
	dollars	dollars				dollars	dollars	dollars	dollars	
Stalk Shredder	12'	150 hp	0.142	1.00	Nov	1.47	2.30	0.24	0.97	0.142
1.18		6.16								
Chisel Plow	24'	190 hp	0.078	1.00	Nov	0.99	1.50	0.24	0.59	0.078
0.65		3.96								
Field Cultivate	24'	170 hp	0.060	1.00	Apr	0.68	1.04	0.50	1.21	0.060
0.50		3.92								
Apply Liquid Fert	acre			1.00	Apr					
1.0000	2.50	2.50	2.50							
Insol	gal									
22.0000	0.75	16.50	16.50							
Treflan EC	pt									
1.5000	3.64	5.46	5.46							
Field Cultivate	24'	170 hp	0.060	1.00	Apr	0.68	1.04	0.50	1.21	0.060
0.50		3.92								
Hi-Clear Sprayer	60'		0.033	1.00	Apr			0.58	0.98	0.033
0.27		1.84								
Roundup Ultra 4SL	pt									
1.0000	5.68	5.68	5.68							
No-Till Grain Drill	20'	170 hp	0.117	1.00	May	1.33	2.02	2.71	6.13	0.234
1.78		13.98								
Cotton Seed Bt RR	lb									
34.0000	1.00	34.00	34.00							
Cot tech Fee Bt RR	acre									
1.0000	41.00	41.00	41.00							
Eradication Zone 3	acre			1.00	May					
1.0000	24.00	24.00	24.00							
Hi-Clear Sprayer	60'		0.033	1.00	May			0.58	0.98	0.033
0.27		1.84								
Bidrin 8L	oz									
3.2000	0.69	2.21	2.21							
Karate	oz									
3.8700	1.88	7.28	7.28							
Hi-Clear Sprayer	60'		0.033	1.00	May			0.58	0.98	0.033
0.27		1.84								
Roundup Ultra 4SL	pt									
2.0000	5.68	11.36	11.36							
Hi-Clear Sprayer	60'		0.033	1.00	Jun			0.58	0.98	0.033
0.27		1.84								
Pix	oz									
16.0000	0.76	12.16	12.16							
Hi-Clear Sprayer	60'		0.033	1.00	Aug			0.58	0.98	0.033
0.27		1.84								
Dropp 50 WP	lb									
0.1260	54.87	6.91	6.91							

```
  Prep                  pt
        0.5000   6.46    3.23    3.23
Hi-Clear Sprayer     60'                0.033   1.00  Sep                     0.58    0.98  0.033
0.27                             1.84
  Starfire             pt
        2.0000   4.15    8.30    8.30
Boll Buggy           4 bale   130 hp   0.220   1.00  Sep    2.01    3.22    0.95    3.01  0.220
1.83                            11.03
Module Builder       32'      130 hp   0.220   1.00  Sep    2.01    3.22    1.09    3.46  0.440
3.35                            13.13
Stripper             14'                0.198   1.00  Sep                     5.20   17.35  0.198
1.65                            24.20
Haul Cotton          lb                          1.00  Sep
      650.0000   0.02   13.00   13.00
  Gin                    lb
      650.0000   0.08   52.00   52.00
                                                        ------- ------- ------- ------- ------ -
------                   ------- -------
TOTALS                                                     9.17   14.34   14.93   39.82  1.630
13.07                    245.59  336.92
INTEREST ON OPERATING CAPITAL
                                14.39
UNALLOCATED LABOR
                                 0.00
TOTAL SPECIFIED COST
                               351.31
_____________________________________________________________________________________________
_____________________________________
Note: Cost of production estimates are based on last year's input prices.
```

Appendix Table 9.A Estimated resource use and costs for field operations, per acre, Grower 09, UNRC, BtRR Variety Type, 7.5 inches, North Delta, Mississippi, 1999.

OPERATION/	OPERATING INPUT	SIZE/	TRACTOR	PERF	TIMES		TRACTOR COST		EQUIP COST		ALLOC
			TOTAL								
OPERATING INPUT		UNIT	SIZE	RATE	OVER	MTH	DIRECT	FIXED	DIRECT	FIXED	HOURS
COST	AMOUNT	PRICE	COST	COST							
dollars		-------dollars--------					----------dollars----------				
Disk Harrow		32'	210 hp	0.059	1.00	Nov	0.76	1.26	0.68	1.35	0.059
0.49			4.53								
Land Plane		40'x10'	190 hp	0.268	1.00	Nov	3.39	5.14	0.40	1.27	0.268
2.23			12.43								
App by Air (5 gal)		appl			1.00	Apr					
	1.0000	3.25	3.25								
Roundup Ultra 4SL		pt									
	2.0000	5.68	11.36	11.36							
No-Till Grain Drill		20'	170 hp	0.117	1.00	May	1.33	2.02	2.71	6.13	0.234
1.78			13.98								
Cotton Seed Bt RR		lb									
	36.0000	1.00	36.00	36.00							
Cot tech Fee Bt RR		acre									
	1.0000	41.00	41.00	41.00							
Eradication Zone 1		acre			1.00	May					
	1.0000	22.00	22.00	22.00							
App Insect ? Air		acre			1.00	May					
	1.0000	3.25	3.25	3.25							
Orthene 90S		lb									
	0.2000	9.41	1.88	1.88							
App Insect ? Air		acre			1.00	May					
	1.0000	3.25	3.25	3.25							
Orthene 90S		lb									
	0.2500	9.41	2.35	2.35							
App by Air (5 gal)		appl			1.00	May					
	1.0000	3.25	3.25	3.25							
Roundup Ultra 4SL		pt									
	2.0000	5.68	11.36	11.36							
Roundup Ultra 4SL		pt			1.00	Jun					
	1.0000	3.25	3.25	3.25							
Methyl 4EC		pt									
	0.6700	3.50	2.35	2.35							
Orthene 90S		lb									
	0.3300	9.41	3.11	3.11							
Apply Fert by Air		acre			1.00	Jun					
	1.0000	4.00	4.00	4.00							
Amm Nitrate (34% N)		cwt									
	1.3300	9.15	12.17	12.17							
App Insect ? Air		acre			1.00	Jun					
	1.0000	3.25	3.25	3.25							
Bidrin 8L		oz									
	3.1000	0.69	2.14	2.14							
Pix		oz									
	8.0000	0.76	6.08	6.08							
App Insect ? Air		acre			1.00	Jun					
	1.0000	3.25	3.25	3.25							
Bidrin 8L		oz									
	3.1000	0.69	2.14	2.14							
Pix		oz									
	10.0000	0.76	7.60	7.60							
Spray Hi-Boy		acre			0.50	Jun					
	0.5000	2.50	1.25	1.25							
Staple		oz									
	0.3000	20.85	6.26	6.26							
Apply Fert by Air		acre			1.00	Jul					
	1.0000	4.00	4.00	4.00							

```
  Amm Nitrate (34% N)  cwt
        0.9000   9.15    8.24    8.24
Spray Hi-Boy         acre                      1.00  Jul
                1.0000   2.50    2.50    2.50
  Select 2EC           oz
        5.3300   1.32    7.04    7.04
App Insect ? Air     acre                      1.00  Jul
        1.0000   3.25    3.25    3.25
  Orthene 90S          lb
        0.5000   9.41    4.71    4.71
  Methyl 4EC           pt
        1.0000   3.50    3.50    3.50
  Pix                  oz
        8.0000   0.76    6.08    6.08
App Insect ? Air     acre                      1.00  Jul
        1.0000   3.25    3.25    3.25
  Orthene 90S          lb
        0.5000   9.41    4.71    4.71
  Methyl 4EC           pt
        0.6700   3.50    2.35    2.35
App by Air ( 5 gal)  appl                      1.00  Sep
        1.0000   3.25    3.25    3.25
  Prep                 pt
        1.2500   6.46    8.07    8.07
  Dropp 50 WP          lb
        0.1200  54.87    6.58    6.58
  Ammonium Sulfate     lb
        4.0000   0.22    0.88    0.88
App by Air (10 gal)  appl                      1.00  Sep
        1.0000   5.10    5.10    5.10
  Ammonium Sulfate     lb
        4.0000   0.22    0.88    0.88
  Starfire             pt
        1.3300   4.15    5.52    5.52
Boll Buggy           4 bale   130 hp   0.220   1.00  Oct    2.01    3.22    0.95    3.01  0.220
1.83                            11.03
Module Builder       32'      130 hp   0.220   1.00  Oct    2.01    3.22    1.09    3.46  0.440
3.35                            13.13
Stripper             14'                0.198   1.00  Oct                    5.20   17.35  0.198
1.65                            24.20
Haul Cotton          lb                         1.00  Oct
      931.0000   0.02   18.62   18.62
  Gin                  lb
      931.0000   0.08   74.48   74.48
                                                          ------- ------- ------- ------- ------ -
------                  ------- -------
TOTALS                                                       9.50   14.87   11.05   32.58  1.419
11.32                   368.78  448.10
INTEREST ON OPERATING CAPITAL
                                18.17
UNALLOCATED LABOR
                                 0.00
TOTAL SPECIFIED COST
                               466.26
```

Note: Cost of production estimates are based on last year's input prices.

Appendix Table 10.A Estimated resource use and costs for field operations, per acre, Grower 10, UNRC, BXN Variety Type, 10 inches, Central Delta, Mississippi, 1999.

LABOR OPERATION/ OPERATING INPUT	OPERATING INPUT AMOUNT	UNIT PRICE	OPERATING INPUT COST	SIZE/ UNIT COST	TRACTOR SIZE	TOTAL COST	PERF RATE	TIMES OVER	MTH	TRACTOR COST DIRECT	TRACTOR COST FIXED	EQUIP COST DIRECT	EQUIP COST FIXED	ALLOC HOURS
dollars				-------dollars--------						----------dollars----------				
Stalk Shredder				12'	150 hp	1.18	0.142	1.00	Sep	1.47	2.30	0.24	0.97	0.142
Subsoiler				3 shank	170 hp	1.56	0.188	1.00	Nov	2.14	3.25	0.39	0.74	0.188
App by Air (3 gal)	1.0000	2.60	2.60	appl		2.60		1.00	Feb					
Fert 13-13-13	3.0000	10.53	31.59	cwt		31.59								
Field Cultivate				32'	190 hp	0.37	0.045	1.00	Mar	0.57	0.86	0.42	1.02	0.045
Field Cult & Inc				32'	190 hp	0.55	0.047	1.00	Mar	0.59	0.90	0.54	1.30	0.071
Prowl 3.3 EC	2.0000	3.16	6.32	pt		6.32								
Zorial Rapid 80	0.6000	13.69	8.21	lb		8.21								
No-Till Grain Drill				20'	170 hp	1.78	0.117	1.00	Apr	1.33	2.02	2.71	6.13	0.234
Cotton Seed BXN	40.0000	0.95	38.00	lb		38.00								
Cot tech Fee BXN	1.0000	9.00	9.00	acre		9.00								
Hi-Clear Sprayer				60'		0.07	0.033	0.27	May			0.16	0.27	0.009
Buctril 4EC	0.2700	13.25	3.58	pt		3.58								
Eradication Zone 1	1.0000	22.00	22.00	acre		22.00		1.00	May					
App Insect ? Ground	0.4500	3.30	1.49	acre		1.49		0.45	May					
Ammo 2.5 EC	0.5760	1.70	0.98	oz		0.98								
App Herb. ? Ground	1.0000	3.30	3.30	acre		3.30		1.00	May					
Select 2EC	6.0000	1.32	7.92	oz		7.92								
App Insect ? Ground	1.0000	3.30	3.30	acre		3.30		1.00	May					
Ammo 2.5 EC	1.2800	1.70	2.18	oz		2.18								
Pix	12.0000	0.76	9.12	oz		9.12								
App Insect ? Ground	1.0000	3.30	3.30	acre		3.30		1.00	Jun					
Baythroid 2	2.0000	3.14	6.28	oz		6.28								
App Insect ? Ground	1.0000	3.30	3.30	acre		3.30		1.00	Jun					
Furadan 4F	0.5000	8.38	4.19	pt		4.19								
App by Air (3 gal)	1.0000	2.60	2.60	appl		2.60		1.00	Jun					
Amm Sulfate (21% N)	2.2500			cwt										
Spray (Spot)				60'	170 hp	0.03	0.027	0.10	Jun	0.03	0.05	0.01	0.01	0.004
Select 2EC	0.0600	1.32	0.08	oz		0.08								

```
Irrigate (.5 mi CP)  inch                        1.00  Jul                     2.67   24.66  0.010
0.07    1.0000                  27.40
App Insect ? Air     acre                        1.00  Jul
        1.0000   3.25    3.25    3.25
  Curacron 8E          pt
        0.8900  12.46   11.09   11.09
Irrigate (.5 mi CP)  inch                        2.00  Aug                     5.35          0.020
0.14    2.0000                   5.49
Hi-Clear Sprayer     60'                0.033   1.00  Aug                     0.58    0.98  0.033
0.27                             1.84
  Prep                 pt
        1.2500   6.46    8.07    8.07
  Dropp 50 WP          lb
        0.1260  54.87    6.91    6.91
Hi-Clear Sprayer     60'                0.033   1.00  Aug                     0.58    0.98  0.033
0.27                             1.84
  Starfire             pt
        2.0000   4.15    8.30    8.30
Boll Buggy           4 bale   130 hp   0.220   1.00  Sep    2.01    3.22    0.95    3.01  0.220
1.83                            11.03
Module Builder       32'      130 hp   0.220   1.00  Sep    2.01    3.22    1.09    3.46  0.440
3.35                            13.13
Stripper             14'                0.198   1.00  Sep                     5.20   17.35  0.198
1.65                            24.20
Haul Cotton          lb                          1.00  Sep
      820.0000   0.02   16.40   16.40
  Gin                  lb
      820.0000   0.08   65.60   65.60
                                                       ------- ------- ------- ------- ------ -
------                 ------- -------
TOTALS                                                  10.15   15.83   20.90   60.88  1.646
13.13                  288.96  406.86
INTEREST ON OPERATING CAPITAL
                                17.66
UNALLOCATED LABOR
                                 0.00
TOTAL SPECIFIED COST
                               427.51
```

Note: Cost of production estimates are based on last year's input prices.

Appendix Table 11.A Estimated resource use and costs for field operations, per acre, Grower 11, UNRC, BXN Variety Type, 10.0 inches, Central Delta, Mississippi, 1999.

							TRACTOR COST		EQUIP COST		ALLOC	LABOR	OPERATING INPUT							
OPERATION/	SIZE/	TRACTOR	PERF	TIMES																
OPERATING INPUT	UNIT	SIZE	RATE	OVER	MTH	DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	TOTAL COST					
						----------dollars----------					dollars		-------dollars--------							
Stalk Shredder	12'	150 hp	0.142	1.00	Sep	1.47	2.30	0.24	0.97	0.142	1.18				6.16					
Subsoiler	3 shank	170 hp	0.188	1.00	Nov	2.14	3.25	0.39	0.74	0.188	1.56				8.08					
App by Air (3 gal)	appl			1.00	Feb							1.0000	2.60	2.60	2.60					
Fert 13-13-13	cwt											3.0000	10.53	31.59	31.59					
Field Cultivate	32'	190 hp	0.045	1.00	Mar	0.57	0.86	0.42	1.02	0.045	0.37				3.24					
Field Cult & Inc	32'	190 hp	0.047	1.00	Mar	0.59	0.90	0.54	1.30	0.071	0.55				3.88					
Prowl 3.3 EC	pt											2.0000	3.16	6.32	6.32					
Zorial Rapid 80	lb											0.6000	13.69	8.21	8.21					
No-Till Grain Drill	20'	170 hp	0.117	1.00	Apr	1.33	2.02	2.71	6.13	0.234	1.78				13.98					
Cotton Seed BXN	lb											40.0000	0.95	38.00	38.00					
Cot tech Fee BXN	acre											1.0000	9.00	9.00	9.00					
Eradication Zone 1	acre			1.00	May							1.0000	22.00	22.00	22.00					
Hi-Clear Sprayer	60'		0.033	0.27	May			0.16	0.27	0.009	0.07				0.50					
Buctril 4EC	pt											0.2700	13.25	3.58	3.58					
App Insect ? Ground	acre			0.45	May							0.4500	3.30	1.49	1.49					
Ammo 2.5 EC	oz											0.5760	1.70	0.98	0.98					
App Herb. ? Ground	acre			1.00	May							1.0000	3.30	3.30	3.30					
Select 2EC	oz											6.0000	1.32	7.92	7.92					
App Insect ? Ground	acre			1.00	May							1.0000	3.30	3.30	3.30					
Ammo 2.5 EC	oz											1.2800	1.70	2.18	2.18					
Pix	oz											12.0000	0.76	9.12	9.12					
App Insect ? Ground	acre			1.00	Jun							1.0000	3.30	3.30	3.30					
Baythroid 2	oz											2.0000	3.14	6.28	6.28					
App Insect ? Ground	acre			1.00	Jun							1.0000	3.30	3.30	3.30					
Furadan 4F	pt											0.5000	8.38	4.19	4.19					
App by Air (3 gal)	appl			1.00	Jun							1.0000	2.60	2.60	2.60					
Amm Sulfate (21% N)	cwt											1.2500								
Spray (Spot)	60'	170 hp	0.027	0.10	Jun	0.03	0.05	0.01	0.01	0.004	0.03				0.13					
Select 2EC	oz											0.0600	1.32	0.08	0.08					

```
App Insect ? Air     acre                        1.00  Jul
        1.0000   3.25    3.25    3.25
  Curacron 8E          pt
        0.8900  12.46   11.09   11.09
Hi-Clear Sprayer     60'                0.033   1.00  Aug                     0.58    0.98  0.033
0.27                              1.84
  Prep                 pt
        1.2500   6.46    8.07    8.07
  Dropp 50 WP          lb
        0.1260  54.87    6.91    6.91
Hi-Clear Sprayer     60'                0.033   1.00  Aug                     0.58    0.98  0.033
0.27                              1.84
  Starfire             pt
        2.0000   4.15    8.30    8.30
Boll Buggy           4 bale   130 hp   0.220   1.00  Sep    2.01    3.22    0.95    3.01  0.220
1.83                             11.03
Module Builder       32'      130 hp   0.220   1.00  Sep    2.01    3.22    1.09    3.46  0.440
3.35                             13.13
Stripper             14'                0.198   1.00  Sep                     5.20   17.35  0.198
1.65                             24.20
Haul Cotton          lb                         1.00  Sep
      603.0000   0.02   12.06   12.06
  Gin                  lb
      603.0000   0.08   48.24   48.24
                                                       ------- ------- ------- ------- ------ -
------                  ------- -------
TOTALS                                                   10.15   15.83   12.88   36.22  1.616
12.93                   267.26  355.26
INTEREST ON OPERATING CAPITAL
                                 16.64
UNALLOCATED LABOR
                                  0.00
TOTAL SPECIFIED COST
                                371.91
```

Note: Cost of production estimates are based on last year's input prices.

Appendix Table 12.A Estimated resource use and costs for field operations, per acre, Grower 12, UNRC, Bt, 10-inch, South Delta, Mississippi, 1999.

LABOR OPERATION/ OPERATING INPUT	OPERATING INPUT COST	SIZE/ AMOUNT	UNIT PRICE	TRACTOR COST	TOTAL SIZE COST	PERF RATE	TIMES OVER	MTH	TRACTOR COST DIRECT	TRACTOR COST FIXED	EQUIP COST DIRECT	EQUIP COST FIXED	ALLOC HOURS
	dollars			-------dollars--------					----------dollars----------				
App by Air (3 gal) appl							1.00	Apr					
	1.0000	2.60	2.60	2.60									
Roundup Ultra 4SL pt													
	2.0000	5.68	11.36	11.36									
Apply Fert by Air appl							1.00	Apr					
	1.0000	4.00	4.00	4.00									
Urea, Solid (46% N) cwt													
	2.0000	8.22	16.44	16.44									
No-Till Grain Drill 20'		190 hp				0.117	1.00	Apr	1.48	2.24	2.71	6.13	0.234
1.78					14.35								
Bt Cotton Seed lb													
	38.0000	0.99	37.62	37.62									
Bt Cotton Fee acre													
	1.0000	32.00	32.00	32.00									
Eradicaiton Zone 1 acre							1.00	Apr					
	1.0000	22.00	22.00	22.00									
App by Air (3 gal) appl							1.00	May					
	1.0000	2.60	2.60	2.60									
Zorial Rapid 80 lb													
	1.5000	13.69	20.54	20.54									
Cotoran 4L pt													
	3.0000	4.19	12.57	12.57									
Prowl 3.3 EC pt													
	3.0000	3.16	9.48	9.48									
App by Air (3 gal) appl							1.00	Jun					
	1.0000	2.60	2.60	2.60									
Select 2EC oz													
	0.6000	1.32	0.79	0.79									
Staple oz													
	1.5000	20.85	31.28	31.28									
App by Air (3 gal) appl							1.00	Jun					
	1.0000	2.60	2.60	2.60									
Bravo oz													
	2.0000	6.12	12.24	12.24									
Pix oz													
	6.0000	0.76	4.56	4.56									
App by Air (3 gal) appl							1.00	Jul					
	1.0000	2.60	2.60	2.60									
Pix oz													
	16.0000	0.76	12.16	12.16									
App by Air (5 gal) appl							1.00	Aug					
	1.0000	3.25	3.25	3.25									
Finish pt													
	2.0000	6.80	13.60	13.60									

```
App by Air ( 5 gal)  appl                      1.00  Sep
        1.0000   3.25    3.25    3.25
  Starfire             pt
        2.0000   4.15    8.30    8.30
Insect Scouting      acre                      1.00  Sep
        1.0000   6.00    6.00    6.00
Eradication Zone 4   acre                      1.00  Sep
        1.0000  22.00   22.00   22.00
Boll Buggy           4 bale   150 hp   0.220   1.00  Sep    2.27    3.56    0.95    3.01  0.220
1.83                            11.63
Module Builder       32'      150 hp   0.220   1.00  Sep    2.27    3.56    1.09    3.46  0.440
3.35                            13.73
Stripper             14'               0.198   1.00  Sep                    5.20   17.35  0.198
1.65                            24.20
Haul Cotton          lb                        1.00  Sep
      851.0000   0.02   17.02   17.02
  Gin                  lb
      851.0000   0.08   68.08   68.08
                                                        ------- ------- ------- ------- ------ -
------                  ------- -------
TOTALS                                                     6.02    9.37    9.97   29.96  1.092
8.60                   381.53  445.45
INTEREST ON OPERATING CAPITAL
                                20.77
UNALLOCATED LABOR
                                 0.00
TOTAL SPECIFIED COST
                               466.21
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Note: Cost of production estimates are based on last year's input prices.
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Appendix Table 13.A Estimated resource use and costs for field operations, per acre, Grower 13, Conventional Variety, 10 inches, South Delta, Mississippi, 1999.

LABOR OPERATION/ OPERATING INPUT	OPERATING INPUT COST	AMOUNT	PRICE	OPERATING INPUT SIZE/ UNIT COST	TRACTOR SIZE	TOTAL COST	PERF RATE	TIMES OVER	MTH	TRACTOR COST DIRECT	TRACTOR COST FIXED	EQUIP COST DIRECT	EQUIP COST FIXED	ALLOC HOURS
	dollars			-------dollars--------						----------dollars----------				
Stalk Shredder				12'	150 hp	1.18	0.142	1.00	Oct	1.47	2.30	0.24	0.97	0.142
						6.16								
Field Mulcher				24'	190 hp	0.56	0.067	1.00	Oct	0.85	1.28	0.43	0.97	0.067
						4.09								
Row Cond (Harrow)				21'	190 hp	0.57	0.069	1.00	Nov	0.87	1.32	0.36	0.77	0.069
						3.90								
App by Air (5 gal)				appl				1.00	Mar					
	1.0000	3.25	3.25			3.25								
Roundup Ultra 4SL				pt										
	1.5000	5.68	8.52			8.52								
No-Till Grain Drill				20'	190 hp	1.78	0.117	1.00	May	1.48	2.24	2.71	6.13	0.234
						14.35								
Cotton Seed				lb										
	30.0000	0.94	28.80			28.80								
Staple				oz										
	0.5000	20.85	10.43			10.43								
Prowl 3.3 EC				pt										
	2.0000	3.16	6.32			6.32								
Cotoran 4L				pt										
	3.0000	4.19	12.57			12.57								
Gramoxone Extra				pt										
	2.0000	4.41	8.82			8.82								
Eradication Zone 2				acre				1.00	May					
	1.0000	22.00	22.00			22.00								
Spray (Broadcast)				42'	150 hp	0.46	0.039	1.00	Jun	0.40	0.63	0.10	0.14	0.059
						1.73								
Ammo 2.5 EC				oz										
	1.2800	1.70	2.18			2.18								
Apply Fert by Air				appl				1.00	Apr					
	1.0000	4.00	4.00			4.00								
Urea, Solid (46% N)				cwt										
	0.5000	8.22	4.11			4.11								
Spray (Broadcast)				42'	150 hp	0.46	0.039	1.00	Jun	0.40	0.63	0.10	0.14	0.059
						1.73								
Ammo 2.5 EC				oz										
	1.2800	1.70	2.18			2.18								
Spray (Broadcast)				42'	170 hp	0.46	0.039	1.00	Jun	0.44	0.67	0.10	0.14	0.059
						1.82								
Staple				oz										
	1.2000	20.85	25.02			25.02								
Pix				oz										
	4.0000	0.76	3.04			3.04								
Spray (Broadcast)				42'	150 hp	0.46	0.039	1.00	Jun	0.40	0.63	0.10	0.14	0.059
						1.73								
Furadan 4F				pt										
	0.4000	8.38	3.35			3.35								
Pix				oz										
	4.0000	0.76	3.04			3.04								
Spin Spreader				4 ton	150 hp	1.52	0.100	1.00	Jul	1.03	1.62	0.71	1.31	0.200
						6.19								
Amm Nitrate (34% N)				cwt										
	1.2500	9.15	11.44			11.44								
Spray (Broadcast)				42'	150 hp	0.46	0.039	1.00	Jul	0.40	0.63	0.10	0.14	0.059
						1.73								
Orthene 90S				lb										
	1.0000	9.41	9.41			9.41								
Methyl 4EC				pt										
	0.5000	3.50	1.75			1.75								
Spray (Broadcast)				42'	150 hp	0.46	0.039	1.00	Jul	0.40	0.63	0.10	0.14	0.059
						1.73								

```
  Decis 1.5EC          oz
        2.5600   3.56    9.11    9.11
  Orthene 90S          lb
        0.5000   9.41    4.71    4.71
Spray (Broadcast)    42'       150 hp   0.039   1.00  Aug    0.40    0.63    0.10    0.14  0.059
0.46                                1.73
  Tracer               oz
        1.9700   5.84   11.50   11.50
Spray (Broadcast)    42'       150 hp   0.039   1.00  Aug    0.40    0.63    0.10    0.14  0.059
0.46                                1.73
  Tracer               oz
        1.9700   5.84   11.50   11.50
Insect Scouting        acre             1.00  Aug
        1.0000   6.00    6.00    6.00
Spray (Broadcast)    42'       170 hp   0.039   1.00  Sep    0.44    0.67    0.10    0.14  0.059
0.46                                1.82
  Def 6                pt
        0.5000   5.28    2.64    2.64
  Prep                 pt
        1.5000   6.46    9.69    9.69
Spray (Broadcast)    42'       170 hp   0.039   1.00  Sep    0.44    0.67    0.10    0.14  0.059
0.46                                1.82
  Starfire             pt
        2.0000   4.15    8.30    8.30
Boll Buggy           4 bale    130 hp   0.220   1.00  Sep    2.01    3.22    0.95    3.01  0.220
1.83                               11.03
Module Builder       32'       130 hp   0.220   1.00  Sep    2.01    3.22    1.09    3.46  0.440
3.35                               13.13
Stripper             14'                0.198   1.00  Sep                    5.20   17.35  0.198
1.65                               24.20
Haul Cotton          lb                       1.00  Sep
      685.0000   0.02   13.70   13.70
  Gin                  lb
      685.0000   0.08   54.80   54.80
                                                       ------- ------- ------- ------- ------ -
------                   ------- -------
TOTALS                                                         13.87   21.66   12.70   35.39
2.155   17.02                     301.57  402.22
INTEREST ON OPERATING CAPITAL
                                   16.21
UNALLOCATED LABOR
                                    0.00
TOTAL SPECIFIED COST
                                  418.42
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Note: Cost of production estimates are based on last year's input prices.
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Appendix B

Appendix Table 1.B Summary of estimated costs per acre, Grower 01, UNRC, BtRR Variety Type, 7.5 inches, North Brown Loam, Mississippi, 1999.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY	acre	4.00	1.0000	4.00	_____
HARVEST AIDS	acre	23.86	1.0000	23.86	_____
GIN/DRY	acre	49.76	1.0000	49.76	_____
FERTILIZERS	acre	47.03	1.0000	47.03	_____
HERBICIDES	acre	45.69	1.0000	45.69	_____
INSECTICIDES	acre	14.37	1.0000	14.37	_____
SEED/PLANTS	acre	35.00	1.0000	35.00	_____
TECHNOLOGY FEE	acre	65.00	1.0000	65.00	_____
GROWTH REGULATORS	acre	18.24	1.0000	18.24	_____
CUSTOM HARVEST/HAUL	acre	12.44	1.0000	12.44	_____
OPERATOR LABOR	hour	8.31	1.0850	9.02	_____
HAND LABOR	hour	6.91	0.3370	2.33	_____
DIESEL FUEL	gal	0.65	5.5782	3.63	_____
REPAIR & MAINTENANCE	acre	17.50	1.0000	17.50	_____
INTEREST ON OP. CAP.	acre	17.69	1.0000	17.69	_____

TOTAL DIRECT EXPENSES				365.55	_____
TOTAL FIXED EXPENSES				48.25	_____

TOTAL SPECIFIED EXPENSES				413.79	_____

Note: Cost of production estimates are based on last year's input prices.

Appendix Table 2.B Summary of estimated costs per acre, Grower 02, UNRC, BtRR, 7.5 inches, North Brown Loam, Mississippi, 1999.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY	acre	4.00	1.0000	4.00	_____
HARVEST AIDS	acre	32.16	1.0000	32.16	_____
GIN/DRY	acre	42.08	1.0000	42.08	_____
FERTILIZERS	acre	39.43	1.0000	39.43	_____
HERBICIDES	acre	28.40	1.0000	28.40	_____
INSECTICIDES	acre	2.20	1.0000	2.21	_____
SEED/PLANTS	acre	35.00	1.0000	35.00	_____
TECHNOLOGY FEE	acre	65.00	1.0000	65.00	_____
GROWTH REGULATORS	acre	24.32	1.0000	24.32	_____
CUSTOM HARVEST/HAUL	acre	10.52	1.0000	10.52	_____
OPERATOR LABOR	hour	8.31	1.1088	9.21	_____
HAND LABOR	hour	6.91	0.3370	2.33	_____
DIESEL FUEL	gal	0.65	6.1882	4.02	_____
REPAIR & MAINTENANCE	acre	17.49	1.0000	17.49	_____
INTEREST ON OP. CAP.	acre	15.63	1.0000	15.63	_____

TOTAL DIRECT EXPENSES				331.80	_____
TOTAL FIXED EXPENSES				48.96	_____

TOTAL SPECIFIED EXPENSES				380.76	_____

Note: Cost of production estimates are based on last year's input prices.

Appendix Table 3.B Summary of estimated costs per acre, Grower 03, UNRC, BtRR Variety Type, 7.5 inches, North Brown Loam, Mississippi, 1999.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY	acre	8.00	1.0000	8.00	_____
HARVEST AIDS	acre	21.20	1.0000	21.20	_____
GIN/DRY	acre	42.40	1.0000	42.40	_____
FERTILIZERS	acre	40.20	1.0000	40.20	_____
HERBICIDES	acre	24.63	1.0000	24.63	_____
INSECTICIDES	acre	2.21	1.0000	2.21	_____
SEED/PLANTS	acre	32.80	1.0000	32.80	_____
TECHNOLOGY FEE	acre	65.00	1.0000	65.00	_____
GROWTH REGULATORS	acre	23.10	1.0000	23.10	_____
CUSTOM HARVEST/HAUL	acre	10.60	1.0000	10.60	_____
OPERATOR LABOR	hour	8.31	1.2899	10.72	_____
HAND LABOR	hour	6.91	0.3685	2.55	_____
DIESEL FUEL	gal	0.65	8.8649	5.76	_____
REPAIR & MAINTENANCE	acre	19.58	1.0000	19.58	_____
INTEREST ON OP. CAP.	acre	16.87	1.0000	16.87	_____

TOTAL DIRECT EXPENSES				325.62	_____
TOTAL FIXED EXPENSES				55.51	_____

TOTAL SPECIFIED EXPENSES				381.12	_____

Note: Cost of production estimates are based on last year's input prices.

Appendix Table 4.B Summary of estimated costs per acre, Grower 04, UNRC, BtRR, 7.5 inches, North Brown Loam, Mississippi, 1999.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY	acre	4.00	1.0000	4.00	_____
HARVEST AIDS	acre	18.56	1.0000	18.56	_____
GIN/DRY	acre	61.76	1.0000	61.76	_____
FERTILIZERS	acre	49.80	1.0000	49.80	_____
HERBICIDES	acre	46.50	1.0000	46.50	_____
INSECTICIDES	acre	13.50	1.0000	13.50	_____
SEED/PLANTS	acre	35.00	1.0000	35.00	_____
TECHNOLOGY FEE	acre	65.00	1.0000	65.00	_____
GROWTH REGULATORS	acre	30.40	1.0000	30.40	_____
CUSTOM HARVEST/HAUL	acre	15.44	1.0000	15.44	_____
OPERATOR LABOR	hour	8.31	1.0520	10.72	_____
HAND LABOR	hour	6.91	0.4855	2.55	_____
DIESEL FUEL	gal	0.65	7.5441	5.76	_____
REPAIR & MAINTENANCE	acre	14.77	1.0000	14.77	_____
INTEREST ON OP. CAP.	acre	18.71	1.0000	18.71	_____

TOTAL DIRECT EXPENSES				390.43	_____
TOTAL FIXED EXPENSES				45.08	_____

TOTAL SPECIFIED EXPENSES				435.51	_____

Note: Cost of production estimates are based on last year's input prices.

Appendix Table 5.B Summary of estimated costs per acre, Grower 05, UNRC, BtRR Variety Type, 7.5 inches, North Brown Loam, Mississippi, 1999.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY	acre	4.00	1.0000	4.00	_____
HARVEST AIDS	acre	23.86	1.0000	23.86	_____
GIN/DRY	acre	56.80	1.0000	56.80	_____
FERTILIZERS	acre	49.80	1.0000	49.80	_____
HERBICIDES	acre	32.68	1.0000	32.68	_____
INSECTICIDES	acre	12.53	1.0000	12.53	_____
SEED/PLANTS	acre	35.00	1.0000	35.00	_____
TECHNOLOGY FEE	acre	65.00	1.0000	65.00	_____
GROWTH REGULATORS	acre	18.24	1.0000	18.24	_____
CUSTOM HARVEST/HAUL	acre	14.80	1.0000	14.80	_____
OPERATOR LABOR	hour	8.31	1.0520	8.74	_____
HAND LABOR	hour	6.91	0.3370	2.33	_____
DIESEL FUEL	gal	0.65	5.8450	3.80	_____
REPAIR & MAINTENANCE	acre	17.14	1.0000	17.14	_____
INTEREST ON OP. CAP.	acre	17.55	1.0000	17.55	_____

TOTAL DIRECT EXPENSES				362.26	_____
TOTAL FIXED EXPENSES				47.82	_____

TOTAL SPECIFIED EXPENSES				410.08	_____

Note: Cost of production estimates are based on last year's input prices.

Appendix Table 6.B Summary of estimated costs per acre, Grower 06, UNRC, Bt Variety Type, 7.5 inches, North Brown Loam, Mississippi, 1999.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY	acre	4.00	1.0000	4.00	_____
HARVEST AIDS	acre	18.56	1.0000	18.56	_____
GIN/DRY	acre	56.08	1.0000	56.08	_____
FERTILIZERS	acre	49.80	1.0000	49.80	_____
HERBICIDES	acre	58.63	1.0000	58.63	_____
INSECTICIDES	acre	13.50	1.0000	13.50	_____
SEED/PLANTS	acre	34.65	1.0000	34.65	_____
TECHNOLOGY FEE	acre	56.00	1.0000	56.00	_____
GROWTH REGULATORS	acre	30.40	1.0000	30.40	_____
CUSTOM HARVEST/HAUL	acre	14.02	1.0000	14.02	_____
OPERATOR LABOR	hour	8.31	1.0385	8.63	_____
HAND LABOR	hour	6.91	0.4788	3.31	_____
DIESEL FUEL	gal	0.65	7.4399	4.84	_____
REPAIR & MAINTENANCE	acre	14.65	1.0000	14.65	_____
INTEREST ON OP. CAP.	acre	18.60	1.0000	18.60	_____

TOTAL DIRECT EXPENSES				385.67	_____
TOTAL FIXED EXPENSES				44.80	_____

TOTAL SPECIFIED EXPENSES				430.47	_____

Note: Cost of production estimates are based on last year's input prices.

Appendix Table 7.B Summary of estimated costs per acre, Grower 07, UNRC, BXN Variety Type, 7.5 inches, North Brown Loam, Mississippi, 1999.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY	acre	4.00	1.0000	4.00	_____
HARVEST AIDS	acre	18.56	1.0000	18.56	_____
GIN/DRY	acre	48.96	1.0000	48.96	_____
FERTILIZERS	acre	49.80	1.0000	49.80	_____
HERBICIDES	acre	69.95	1.0000	69.95	_____
INSECTICIDES	acre	34.51	1.0000	34.51	_____
SEED/PLANTS	acre	33.25	1.0000	33.25	_____
TECHNOLOGY FEE	acre	33.00	1.0000	33.00	_____
GROWTH REGULATORS	acre	18.24	1.0000	18.24	_____
CUSTOM HARVEST/HAUL	acre	12.24	1.0000	12.24	_____
OPERATOR LABOR	hour	8.31	1.0520	8.74	_____
HAND LABOR	hour	6.91	0.4855	3.35	_____
DIESEL FUEL	gal	0.65	7.5441	4.90	_____
REPAIR & MAINTENANCE	acre	14.77	1.0000	14.77	_____
INTEREST ON OP. CAP.	acre	17.77	1.0000	17.77	_____

TOTAL DIRECT EXPENSES				372.05	_____
TOTAL FIXED EXPENSES				45.08	_____

TOTAL SPECIFIED EXPENSES				417.13	_____

Note: Cost of production estimates are based on last year's input prices.

Appendix Table 8.B Summary of estimated costs per acre, Grower 08, UNRC, BtRR Variety Type, 7.5 inches, South Brown Loam, Mississippi, 1999.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HARVEST AIDS	acre	18.44	1.0000	18.44	_____
GIN/DRY	acre	52.00	1.0000	52.00	_____
FERTILIZERS	acre	16.50	1.0000	16.50	_____
HERBICIDES	acre	22.50	1.0000	22.50	_____
INSECTICIDES	acre	9.48	1.0000	9.48	_____
SEED/PLANTS	acre	34.00	1.0000	34.00	_____
TECHNOLOGY FEE	acre	65.00	1.0000	65.00	_____
GROWTH REGULATORS	acre	12.16	1.0000	12.16	_____
CUSTOM FERT/LIME	acre	2.50	1.0000	2.50	_____
CUSTOM HARVEST/HAUL	acre	13.00	1.0000	13.00	_____
OPERATOR LABOR	hour	8.31	1.2930	10.74	_____
HAND LABOR	hour	6.91	0.3370	2.33	_____
DIESEL FUEL	gal	0.65	8.2234	5.35	_____
REPAIR & MAINTENANCE	acre	18.75	1.0000	18.75	_____
INTEREST ON OP. CAP.	acre	14.39	1.0000	14.39	_____

TOTAL DIRECT EXPENSES				297.15	_____
TOTAL FIXED EXPENSES				54.16	_____

TOTAL SPECIFIED EXPENSES				351.31	_____

Note: Cost of production estimates are based on last year's input prices.

Appendix Table 9.B Summary of estimated costs per acre, Grower 09, UNRC, BtRR Variety Type, 7.5 inches, North Delta, Mississippi, 1999.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY	acre	26.60	1.0000	26.60	_____
HARVEST AIDS	acre	21.94	1.0000	21.94	_____
GIN/DRY	acre	74.48	1.0000	74.48	_____
FERTILIZERS	acre	20.40	1.0000	20.40	_____
HERBICIDES	acre	36.01	1.0000	36.01	_____
INSECTICIDES	acre	29.22	1.0000	29.22	_____
SEED/PLANTS	acre	36.00	1.0000	36.00	_____
TECHNOLOGY FEE	acre	63.00	1.0000	63.00	_____
GROWTH REGULATORS	acre	19.76	1.0000	19.76	_____
CUSTOM HARVEST/HAUL	acre	18.62	1.0000	18.62	_____ SPRAY
APP COSTS	acre	22.75	1.0000	22.75	_____
OPERATOR LABOR	hour	8.31	1.0820	8.99	_____
HAND LABOR	hour	6.91	0.3370	2.33	_____
DIESEL FUEL	gal	0.65	8.1770	5.32	_____
REPAIR & MAINTENANCE	acre	15.24	1.0000	15.24	_____
INTEREST ON OP. CAP.	acre	18.17	1.0000	18.17	_____

TOTAL DIRECT EXPENSES				418.82	_____
TOTAL FIXED EXPENSES				47.44	_____

TOTAL SPECIFIED EXPENSES				466.26	_____

Note: Cost of production estimates are based on last year's input prices.

Appendix Table 10.B Summary of estimated costs per acre, Grower 10, UNRC, BXN Variety Type, 10 inches, Central Delta, Mississippi, 1999.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY	acre	5.20	1.0000	5.20	_____
HARVEST AIDS	acre	23.29	1.0000	23.29	_____
GIN/DRY	acre	65.60	1.0000	65.60	_____
FERTILIZERS	acre	31.59	1.0000	31.59	_____
HERBICIDES	acre	26.11	1.0000	26.11	_____
INSECTICIDES	acre	24.71	1.0000	24.71	_____
SEED/PLANTS	acre	38.00	1.0000	38.00	_____
TECHNOLOGY FEE	acre	31.00	1.0000	31.00	_____
GROWTH REGULATORS	acre	9.12	1.0000	9.12	_____
CUSTOM HARVEST/HAUL	acre	16.40	1.0000	16.40	_____
SPRAY APP COSTS	acre	17.94	1.0000	17.94	_____
OPERATOR LABOR	hour	8.31	1.2546	10.43	_____
HAND LABOR	hour	6.91	0.3619	2.50	_____
IRRIGATION LABOR	hour	6.91	0.0300	0.21	_____
DIESEL FUEL	gal	0.65	15.5848	10.13	_____
REPAIR & MAINTENANCE	acre	20.92	1.0000	20.92	_____
INTEREST ON OP. CAP.	acre	17.66	1.0000	17.66	_____

TOTAL DIRECT EXPENSES				350.81	_____
TOTAL FIXED EXPENSES				76.71	_____

TOTAL SPECIFIED EXPENSES				427.51	_____

Note: Cost of production estimates are based on last year's input prices.

Appendix Table 11.B Summary of estimated costs per acre, Grower 11, UNRC, BXN Variety Type, 10.0 inches, Central Delta, Mississippi, 1999.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY	acre	5.20	1.0000	5.20	_____
HARVEST AIDS	acre	23.29	1.0000	23.29	_____
GIN/DRY	acre	48.24	1.0000	48.24	_____
FERTILIZERS	acre	31.59	1.0000	31.59	_____
HERBICIDES	acre	26.11	1.0000	26.11	_____
INSECTICIDES	acre	24.71	1.0000	24.71	_____
SEED/PLANTS	acre	38.00	1.0000	38.00	_____
TECHNOLOGY FEE	acre	31.00	1.0000	31.00	_____
GROWTH REGULATORS	acre	9.12	1.0000	9.12	_____
CUSTOM HARVEST/HAUL	acre	12.06	1.0000	12.06	_____
SPRAY APP COSTS	acre	17.94	1.0000	17.94	_____
OPERATOR LABOR	hour	8.31	1.2546	10.43	_____
HAND LABOR	hour	6.91	0.3619	2.50	_____
DIESEL FUEL	gal	0.65	8.7328	5.68	_____
REPAIR & MAINTENANCE	acre	17.35	1.0000	17.35	_____
INTEREST ON OP. CAP.	acre	16.64	1.0000	16.64	_____

TOTAL DIRECT EXPENSES				319.86	_____
TOTAL FIXED EXPENSES				52.05	_____

TOTAL SPECIFIED EXPENSES				371.91	_____

Note: Cost of production estimates are based on last year's input prices.

Appendix Table 12.B Summary of estimated costs per acre, Grower 12, UNRC, Bt, 10-inch, South Delta, Mississippi, 1999.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY	acre	23.50	1.0000	23.50	_____
HARVEST AIDS	acre	21.90	1.0000	21.90	_____
GIN/DRY	acre	68.08	1.0000	68.08	_____
FERTILIZERS	acre	16.44	1.0000	16.44	_____
FUNGICIDES	acre	12.24	1.0000	12.24	_____
HERBICIDES	acre	86.01	1.0000	86.01	_____
SEED/PLANTS	acre	37.62	1.0000	37.62	_____
TECHNOLOGY FEE	acre	76.00	1.0000	76.00	_____
GROWTH REGULATORS	acre	16.72	1.0000	16.72	_____
SERVICE FEE	acre	6.00	1.0000	6.00	_____
CUSTOM HARVEST/HAUL	acre	17.02	1.0000	17.02	_____
OPERATOR LABOR	hour	8.31	0.7550	6.27	_____
HAND LABOR	hour	6.91	0.3370	2.33	_____
DIESEL FUEL	gal	0.65	5.4919	3.57	_____
REPAIR & MAINTENANCE	acre	12.42	1.0000	12.42	_____
INTEREST ON OP. CAP.	acre	20.77	1.0000	20.77	_____

TOTAL DIRECT EXPENSES				426.89	_____
TOTAL FIXED EXPENSES				39.32	_____

TOTAL SPECIFIED EXPENSES				466.21	_____

Note: Cost of production estimates are based on last year's input prices.

Appendix Table 13.B Summary of estimated costs per acre, Grower 13, Conventional Variety, 10 inches, South Delta, Mississippi, 1999.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY	acre	7.25	1.0000	7.25	_____
HARVEST AIDS	acre	20.63	1.0000	20.63	_____
GIN/DRY	acre	54.80	1.0000	54.80	_____
FERTILIZERS	acre	15.55	1.0000	15.55	_____
HERBICIDES	acre	71.68	1.0000	71.68	_____
INSECTICIDES	acre	55.69	1.0000	55.69	_____
SEED/PLANTS	acre	28.20	1.0000	28.20	_____
TECHNOLOGY FEE	acre	22.00	1.0000	22.00	_____
GROWTH REGULATORS	acre	6.08	1.0000	6.08	_____
SERVICE FEE	acre	6.00	1.0000	6.00	_____
CUSTOM HARVEST/HAUL	acre	13.70	1.0000	13.70	_____
OPERATOR LABOR	hour	8.31	3.5230	12.66	_____
HAND LABOR	hour	6.91	0.6320	4.37	_____
DIESEL FUEL	gal	0.65	11.3688	7.39	_____
REPAIR & MAINTENANCE	acre	19.18	1.0000	19.18	_____
INTEREST ON OP. CAP.	acre	16.21	1.0000	16.21	_____

TOTAL DIRECT EXPENSES				361.37	_____
TOTAL FIXED EXPENSES				57.05	_____

TOTAL SPECIFIED EXPENSES				418.42	_____

Note: Cost of production estimates are based on last year's input prices.

Appendix C

Appendix Table 1.C Estimated costs per acre, Grower 01, UNRC, BtRR Variety Type, 7.5 inches, North Brown Loam, Mississippi, 1999.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
Flotation Tractor	acre	4.00	1.0000	4.00	_____
HARVEST AIDS					
Def 6	pt	5.28	0.5000	2.64	_____
Prep	pt	6.46	2.0000	12.92	_____
Starfire	pt	4.15	2.0000	8.30	_____
GIN/DRY					
Gin	lb	0.08	622.0000	49.76	_____
FERTILIZERS					
Fert 20-10-10	cwt	10.45	4.5000	47.03	_____
HERBICIDES					
Roundup Ultra 4SL	pt	5.68	6.0000	34.08	_____
Clarity	pt	10.00	0.5000	5.00	_____
Gramoxone Extra	pt	4.41	1.5000	6.62	_____
INSECTICIDES					
Bidrin 8L	oz	0.69	6.0000	4.14	_____
Vydate C-LV	oz	0.47	8.5000	4.00	_____
Curacron 8E	pt	12.46	0.5000	6.23	_____
SEED/PLANTS					
Cotton Seed Bt RR	lb	1.00	35.0000	35.00	_____
TECHNOLOGY FEE					Cot
Tech Fee Bt RR	acre	41.00	1.0000	41.00	_____
Eradication Zone 3	acre	24.00	1.0000	24.00	_____
GROWTH REGULATORS					
Pix	oz	0.76	24.0000	18.24	_____
CUSTOM HARVEST/HAUL					
Haul Cotton	lb	0.02	622.0000	12.44	_____
OPERATOR LABOR					
Tractors	hour	8.31	0.5570	4.63	_____
Self-Propelled Eq.	hour	8.31	0.5280	4.39	_____
HAND LABOR					
Implements	hour	6.91	0.3370	2.33	_____
DIESEL FUEL					
Tractors	gal	0.65	3.9678	2.58	_____
Self-Propelled Eq.	gal	0.65	1.6104	1.05	_____
REPAIR & MAINTENANCE					
Implements	acre	4.76	1.0000	4.76	_____

Tractors	acre	2.78	1.0000	2.78	_____
Self-Propelled Eq.	acre	9.96	1.0000	9.96	_____
INTEREST ON OP. CAP.	acre	17.69	1.0000	17.69	_____

TOTAL DIRECT EXPENSES				365.55	_____
FIXED EXPENSES					
Implements	acre	12.60	1.0000	12.60	_____
Tractors	acre	8.47	1.0000	8.47	_____
Self-Propelled Eq.	acre	27.18	1.0000	27.18	_____

TOTAL FIXED EXPENSES				48.25	_____

TOTAL SPECIFIED EXPENSES				413.79	_____

Note: Cost of production estimates are based on last year's input prices.

Appendix Table 2.C Estimated costs per acre, Grower 02, UNRC, BtRR, 7.5 inches, North Brown Loam, Mississippi, 1999.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
Flotation Tractor	acre	4.00	1.0000	4.00	_____
HARVEST AIDS					
Def 6	pt	5.28	0.5000	2.64	_____
Prep	pt	6.46	2.0000	12.92	_____
Starfire	pt	4.15	4.0000	16.60	_____
GIN/DRY					
Gin	lb	0.08	526.0000	42.08	_____
FERTILIZERS					
Fert 20-10-10	cwt	10.45	2.4000	25.08	_____
Fert 15-10-10	cwt	8.97	1.6000	14.35	_____
HERBICIDES					
Roundup Ultra 4SL	pt	5.68	5.0000	28.40	_____
INSECTICIDES					
Bidrin 8L	oz	0.69	3.2000	2.21	_____
SEED/PLANTS					
Cotton Seed Bt RR	lb	1.00	35.0000	35.00	_____
TECHNOLOGY FEE					
Cot Tech Fee Bt RR	acre	41.00	1.0000	41.00	_____
Eradication Zone 3	acre	24.00	1.0000	24.00	_____
GROWTH REGULATORS					
Pix	oz	0.76	32.0000	24.32	_____
CUSTOM HARVEST/HAUL					
Haul Cotton	lb	0.02	526.0000	10.52	_____
OPERATOR LABOR					
Tractors	hour	8.31	0.6138	5.10	_____
Self-Propelled Eq.	hour	8.31	0.4950	4.11	_____
HAND LABOR					
Implements	hour	6.91	0.3370	2.33	_____
DIESEL FUEL					
Tractors	gal	0.65	4.6438	3.02	_____
Self-Propelled Eq.	gal	0.65	1.5444	1.00	_____
REPAIR & MAINTENANCE					
Implements	acre	4.86	1.0000	4.86	_____
Tractors	acre	3.20	1.0000	3.20	_____
Self-Propelled Eq.	acre	9.42	1.0000	9.42	_____
INTEREST ON OP. CAP.	acre	15.63	1.0000	15.63	_____

TOTAL DIRECT EXPENSES				**331.80**	_____
FIXED EXPENSES					
Implements	**acre**	**12.99**	**1.0000**	**12.99**	_____
Tractors	**acre**	**9.78**	**1.0000**	**9.78**	_____
Self-Propelled Eq.	**acre**	**26.20**	**1.0000**	**26.20**	_____

TOTAL FIXED EXPENSES				**48.96**	_____

TOTAL SPECIFIED EXPENSES				**380.76**	_____

Note: Cost of production estimates are based on last year's input prices.

Appendix Table 3.C Estimated costs per acre, Grower 03, UNRC, BtRR Variety Type, 7.5 inches, North Brown Loam, Mississippi, 1999.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
Flotation Tractor	acre	4.00	2.0000	8.00	_____
HARVEST AIDS					
Prep	pt	6.46	1.5000	9.69	_____
Def 6	pt	5.28	1.0000	5.28	_____
Starfire	pt	4.15	1.5000	6.23	_____
GIN/DRY					
Gin	lb	0.08	530.0000	42.40	_____
FERTILIZERS					
Fert 0-25-30	cwt	12.05	2.0000	24.10	_____
Amm Nitrate (34% N)	cwt	9.15	1.7600	16.10	_____
HERBICIDES					
Prowl 3.3 EC	pt	3.16	1.5000	4.74	_____
Roundup Ultra 4SL	pt	5.68	2.4000	13.63	_____
Staple	oz	20.85	0.3000	6.26	_____
INSECTICIDES					
Bidrin 8L	oz	0.69	3.2000	2.21	_____
SEED/PLANTS					
Cotton Seed Bt RR	lb	1.00	32.8000	32.80	_____
TECHNOLOGY FEE					
Cot Tech Fee Bt RR	acre	41.00	1.0000	41.00	_____
Eradication Zone 3	acre	24.00	1.0000	24.00	_____
GROWTH REGULATORS					
Pix	oz	0.76	30.4000	23.10	_____
CUSTOM HARVEST/HAUL					
Haul Cotton	lb	0.02	530.0000	10.60	_____
OPERATOR LABOR					
Tractors	hour	8.31	0.8840	7.35	_____
Self-Propelled Eq.	hour	8.31	0.4059	3.37	_____
HAND LABOR					
Implements	hour	6.91	0.3685	2.55	_____
DIESEL FUEL					
Tractors	gal	0.65	7.4986	4.87	_____
Self-Propelled Eq.	gal	0.65	1.3662	0.89	_____
REPAIR & MAINTENANCE					
Implements	acre	6.60	1.0000	6.60	_____
Tractors	acre	5.01	1.0000	5.01	_____
Self-Propelled Eq.	acre	7.97	1.0000	7.97	_____

INTEREST ON OP. CAP.	acre	16.87	1.0000	16.87	_____

TOTAL DIRECT EXPENSES				325.62	_____
FIXED EXPENSES					
Implements	acre	16.67	1.0000	16.67	_____
Tractors	acre	15.29	1.0000	15.29	_____
Self-Propelled Eq.	acre	23.54	1.0000	23.54	_____

TOTAL FIXED EXPENSES				55.51	_____

TOTAL SPECIFIED EXPENSES				381.12	_____

Note: Cost of production estimates are based on last year's input prices.

Appendix Table 4.C Estimated costs per acre, Grower 04, UNRC, BtRR, 7.5 inches, North Brown Loam, Mississippi, 1999.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
Flotation Tractor	acre	4.00	1.0000	4.00	_____
HARVEST AIDS					
Def 6	pt	5.28	0.5000	2.64	_____
Prep	pt	6.46	1.5000	9.69	_____
Starfire	pt	4.15	1.5000	6.23	_____
GIN/DRY					
Gin	lb	0.08	772.0000	61.76	_____
FERTILIZERS					
Fert 20-12-20	cwt	12.45	4.0000	49.80	_____
HERBICIDES					
Roundup Ultra 4SL	pt	5.68	3.5000	19.88	_____
Clarity	pt	10.00	2.0000	20.00	_____
Gramoxone Extra	pt	4.41	1.5000	6.62	_____
INSECTICIDES					
Baythroid 2	oz	3.14	4.3000	13.50	_____
SEED/PLANTS					
Cotton Seed Bt RR	lb	1.00	35.0000	35.00	_____
TECHNOLOGY FEE					
Cot Tech Fee Bt RR	acre	41.00	1.0000	41.00	_____
Eradication Zone 3	acre	24.00	1.0000	24.00	_____
GROWTH REGULATORS					
Pix	oz	0.76	40.0000	30.40	_____
CUSTOM HARVEST/HAUL					
Haul Cotton	lb	0.02	772.0000	15.44	_____
OPERATOR LABOR					
Tractors	hour	8.31	0.8540	7.10	_____
Self-Propelled Eq.	hour	8.31	0.1980	1.65	_____
HAND LABOR					
Implements	hour	6.91	0.4855	3.35	_____
DIESEL FUEL					
Tractors	gal	0.65	6.5937	4.29	_____
Self-Propelled Eq.	gal	0.65	1.9504	0.62	_____
REPAIR & MAINTENANCE					
Implements	acre	5.65	1.0000	5.65	_____
Tractors	acre	4.53	1.0000	4.53	_____
Self-Propelled Eq.	acre	4.59	1.0000	4.59	_____
INTEREST ON OP. CAP.	acre	18.71	1.0000	18.71	_____

TOTAL DIRECT EXPENSES				390.43	_____
FIXED EXPENSES					
Implements	acre	13.90	1.0000	13.90	_____
Tractors	acre	13.83	1.0000	13.83	_____
Self-Propelled Eq.	acre	17.35	1.0000	17.35	_____

TOTAL FIXED EXPENSES				45.08	_____

TOTAL SPECIFIED EXPENSES				435.51	_____

Note: Cost of production estimates are based on last year's input prices.

Appendix Table 5.C Estimated costs per acre, Grower 05, UNRC, BtRR Variety Type, 7.5 inches, North Brown Loam, Mississippi, 1999.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
Flotation Tractor	acre	4.00	1.0000	4.00	_____
HARVEST AIDS					
Def 6	pt	5.28	0.5000	2.64	_____
Prep	pt	6.46	2.0000	12.92	_____
Starfire	pt	4.15	2.0000	8.30	_____
GIN/DRY					
Gin	lb	0.08	710.0000	56.80	_____
FERTILIZERS					
Fert 20-12-20	cwt	12.45	4.0000	49.80	_____
HERBICIDES					
Roundup Ultra 4SL	pt	5.68	4.5000	25.56	_____
Clarity	pt	10.00	0.0500	0.50	_____
Gramoxone Extra	pt	4.41	1.5000	6.62	_____
INSECTICIDES					
Bidrin 8L	oz	0.69	3.0000	2.07	_____
Vydate C-LV	oz	0.47	9.0000	4.23	_____
Curacron 8E	pt	12.46	0.5000	6.23	_____
SEED/PLANTS					
Cotton Seed Bt RR	lb	1.00	35.0000	35.00	_____
TECHNOLOGY FEE					
Cot Tech Fee Bt RR	acre	41.00	1.0000	41.00	_____
Eradication Zone 3	acre	24.00	1.0000	24.00	_____
GROWTH REGULATORS					
Pix	oz	0.76	24.0000	18.24	_____
CUSTOM HARVEST/HAUL					
Haul Cotton	lb	0.02	740.0000	14.80	_____
OPERATOR LABOR					
Tractors	hour	8.31	0.5570	4.63	_____
Self-Propelled Eq.	hour	8.31	0.4950	4.11	_____
HAND LABOR					
Implements	hour	6.91	0.3370	2.33	_____
DIESEL FUEL					
Tractors	gal	0.65	4.3006	2.80	_____
Self-Propelled Eq.	gal	0.65	1.5444	1.00	_____
REPAIR & MAINTENANCE					
Implements	acre	4.76	1.0000	4.76	_____

Tractors	acre	2.96	1.0000	2.96	_____
Self-Propelled Eq.	acre	9.42	1.0000	9.42	_____
INTEREST ON OP. CAP.	acre	17.55	1.0000	17.55	_____

TOTAL DIRECT EXPENSES				362.26	_____
FIXED EXPENSES					
Implements	acre	12.60	1.0000	12.60	_____
Tractors	acre	9.02	1.0000	9.02	_____
Self-Propelled Eq.	acre	26.20	1.0000	26.20	_____

TOTAL FIXED EXPENSES				47.82	_____

TOTAL SPECIFIED EXPENSES				410.08	_____

Note: Cost of production estimates are based on last year's input prices.

Appendix Table 6.C Estimated costs per acre, Grower 06, UNRC, Bt Variety Type, 7.5 inches, North Brown Loam, Mississippi, 1999.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
Flotation Tractor	acre	4.00	1.0000	4.00	_____
HARVEST AIDS					
Def 6	pt	5.28	0.5000	2.64	_____
Prep	pt	6.46	1.5000	9.69	_____
Starfire	pt	4.15	1.5000	6.23	_____
GIN/DRY					
Gin	lb	0.08	701.0000	56.08	_____
FERTILIZERS					
Fert 20-12-20	cwt	12.45	4.0000	49.80	_____
HERBICIDES					
Roundup Ultra 4SL	pt	5.68	1.5000	8.52	_____
Clarity	pt	10.00	1.0000	10.00	_____
Gramoxone Extra	pt	4.41	1.5000	6.62	_____
Staple	oz	20.85	0.9000	18.77	_____
Poast	pt	9.82	1.5000	14.73	_____
INSECTICIDES					
Baythroid 2	oz	3.14	4.3000	13.50	_____
SEED/PLANTS					
Bt Cotton Seed	lb	0.99	35.0000	34.65	_____
TECHNOLOGY FEE					
Bt Cotton Fee	acre	32.00	1.0000	32.00	_____
Eradication Zone 3	acre	24.00	1.0000	24.00	_____
GROWTH REGULATORS					
Pix	oz	0.76	40.0000	30.40	_____
CUSTOM HARVEST/HAUL					
Haul Cotton	lb	0.02	701.0000	14.02	_____
OPERATOR LABOR					
Tractors	hour	8.31	0.8405	6.98	_____
Self-Propelled Eq.	hour	8.31	0.1980	1.65	_____
HAND LABOR					
Implements	hour	6.91	0.4788	3.31	_____
DIESEL FUEL					
Tractors	gal	0.65	6.4895	4.22	_____
Self-Propelled Eq.	gal	0.65	0.9504	0.62	_____
REPAIR & MAINTENANCE					
Implements	acre	5.61	1.0000	5.61	_____
Tractors	acre	4.46	1.0000	4.46	_____

Self-Propelled Eq.	acre	4.59	1.0000	4.59	_____
INTEREST ON OP. CAP.	acre	18.60	1.0000	18.60	_____

TOTAL DIRECT EXPENSES				385.67	_____
FIXED EXPENSES					
Implements	acre	13.84	1.0000	13.84	_____
Tractors	acre	13.61	1.0000	13.61	_____
Self-Propelled Eq.	acre	17.35	1.0000	17.35	_____

TOTAL FIXED EXPENSES				44.80	_____

TOTAL SPECIFIED EXPENSES				430.47	_____

Note: Cost of production estimates are based on last year's input prices.

Appendix Table 7.C Estimated costs per acre, Grower 07, UNRC, BXN Variety Type, 7.5 inches, North Brown Loam, Mississippi, 1999.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
Flotation Tractor	acre	4.00	1.0000	4.00	_____
HARVEST AIDS					
Def 6	pt	5.28	0.5000	2.64	_____
Prep	pt	6.46	1.5000	9.69	_____
Starfire	pt	4.15	1.5000	6.23	_____
GIN/DRY					
Gin	lb	0.08	612.0000	48.96	_____
FERTILIZERS					
Fert 20-12-20	cwt	12.45	4.0000	49.80	_____
HERBICIDES					
Roundup Ultra 4SL	pt	5.68	1.5000	8.52	_____
Clarity	pt	10.00	1.0000	10.00	_____
Gramoxone Extra	pt	4.41	1.5000	6.62	_____
Buctril 4EC	pt	13.25	1.5000	19.88	_____
Poast	pt	9.82	1.5000	14.73	_____
Staple	oz	20.85	0.3000	6.26	_____
Select 2EC	oz	1.32	3.0000	3.96	_____
INSECTICIDES					
Baythroid 2	oz	3.14	1.5500	4.87	_____
Karate	oz	1.88	4.0000	7.52	_____
Curacron 8E	pt	12.46	1.2500	15.58	_____
Tracer	oz	5.84	0.5000	2.92	_____
Methyl 4EC	pt	3.50	0.2500	0.88	_____
Larvin 3.2	oz	0.43	6.4000	2.75	_____
SEED/PLANTS					
Cotton Seed BXN	lb	0.95	35.0000	35.25	_____
TECHNOLOGY FEE					
Cot Tech Fee BXN	acre	9.00	1.0000	9.00	_____
Eradication Zone 3	acre	24.00	1.0000	24.00	_____
GROWTH REGULATORS					
Pix	oz	0.76	24.0000	18.24	_____
CUSTOM HARVEST/HAUL					
Haul Cotton	lb	0.02	612.0000	12.24	_____
OPERATOR LABOR					
Tractors	hour	8.31	0.8540	7.10	_____
Self-Propelled Eq.	hour	8.31	0.1980	1.65	_____

HAND LABOR					
Implements	hour	6.91	0.4855	3.35	_____
DIESEL FUEL					
Tractors	gal	0.65	6.5937	4.29	_____
Self-Propelled Eq.	gal	0.65	0.9504	0.62	_____
REPAIR & MAINTENANCE					
Implements	acre	5.65	1.0000	5.65	_____
Tractors	acre	4.53	1.0000	4.53	_____
Self-Propelled Eq.	acre	4.59	1.0000	4.59	_____
INTEREST ON OP. CAP.	acre	17.77	1.0000	17.77	_____

TOTAL DIRECT EXPENSES				372.05	_____
FIXED EXPENSES					
Implements	acre	13.90	1.0000	13.90	_____
Tractors	acre	13.83	1.0000	13.83	_____
Self-Propelled Eq.	acre	17.35	1.0000	17.35	_____

TOTAL FIXED EXPENSES				45.08	_____

TOTAL SPECIFIED EXPENSES				417.13	_____

Note: Cost of production estimates are based on last year's input prices.

Appendix Table 8.C Estimated costs per acre, Grower 08, UNRC, BtRR Variety Type, 7.5 inches, South Brown Loam, Mississippi, 1999.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HARVEST AIDS					
Dropp 50 WP	lb	54.87	0.1260	6.91	_____
Prep	pt	6.46	0.5000	3.23	_____
Starfire	pt	4.15	2.0000	8.30	_____
GIN/DRY					
Gin	lb	0.08	650.0000	52.00	_____
FERTILIZERS					
Insol	gal	0.75	22.0000	16.50	_____
HERBICIDES					
Treflan EC	pt	3.64	1.5000	5.46	_____
Roundup Ultra 4SL	pt	5.68	3.0000	17.04	_____
INSECTICIDES					
Bidrin 8L	oz	0.69	3.2000	2.21	_____
Karate	oz	1.88	3.8700	7.28	_____
SEED/PLANTS					
Cotton Seed Bt RR	lb	1.00	34.0000	34.00	_____
TECHNOLOGY FEE					
Cot Tech Fee Bt RR	acre	41.00	1.0000	41.00	_____
Eradication Zone 3	acre	24.00	1.0000	24.00	_____
GROWTH REGULATORS					
Pix	oz	0.76	16.0000	12.16	_____
CUSTOM FERT/LIME					
Apply Liquid Fert	acre	2.50	1.0000	2.50	_____
CUSTOM HARVEST/HAUL					
Haul Cotton	lb	0.02	650.0000	13.00	_____
OPERATOR LABOR					
Tractors	hour	8.31	0.8970	7.45	_____
Self-Propelled Eq.	hour	8.31	0.3960	3.29	_____
HAND LABOR					
Implements	hour	6.91	0.3370	2.33	_____
DIESEL FUEL					
Tractors	gal	0.65	6.8770	4.47	_____
Self-Propelled Eq.	gal	0.65	1.3464	0.88	_____
REPAIR & MAINTENANCE					
Implements	acre	6.24	1.0000	6.24	_____
Tractors	acre	4.70	1.0000	4.70	_____
Self-Propelled Eq.	acre	7.81	1.0000	7.81	_____
INTEREST ON OP. CAP.	acre	14.39	1.0000	14.39	_____

TOTAL DIRECT EXPENSES				297.15	_____
FIXED EXPENSES					
Implements	acre	16.57	1.0000	16.57	_____
Tractors	acre	14.34	1.0000	14.34	_____
Self-Propelled Eq.	acre	23.25	1.0000	23.25	_____

TOTAL FIXED EXPENSES				54.16	_____

TOTAL SPECIFIED EXPENSES				351.31	_____

Note: Cost of production estimates are based on last year's input prices.

Appendix Table 9.C Estimated costs per acre, Grower 09, UNRC, BtRR Variety Type, 7.5 inches, North Delta, Mississippi, 1999.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	3.25	3.0000	9.75	_____
Apply Fert by Air	acre	4.00	2.0000	8.00	_____
Spray Hi-Boy	acre	2.50	1.5000	3.75	_____
App by Air (10 gal)	appl	5.10	1.0000	5.10	_____
HARVEST AIDS					
Prep	pt	6.46	1.2500	8.07	_____
Dropp 50 WP	lb	54.87	0.1200	6.58	_____
Ammonium Sulfate	lb	0.22	8.0000	1.76	_____
Starfire	pt	4.15	1.3300	5.52	_____
GIN/DRY					
Gin	lb	0.08	931.0000	74.48	_____
FERTILIZERS					
Amm Nitrate (34% N)	cwt	9.15	2.2300	20.40	_____
HERBICIDES					
Roundup Ultra 4SL	pt	5.68	4.0000	22.72	_____
Staple	oz	20.85	0.3000	6.26	_____
Select 2EC	oz	1.32	5.3300	7.04	_____
INSECTICIDES					
Orthene 90S	lb	9.41	1.7800	16.75	_____
Methyl 4EC	pt	3.50	2.3400	8.19	_____
Bidrin 8L	oz	0.69	6.2000	4.28	_____
SEED/PLANTS					
Cotton Seed Bt RR	lb	1.00	36.0000	36.00	_____
TECHNOLOGY FEE					
Cot Tech Fee Bt RR	acre	41.00	1.0000	41.00	_____
Eradication Zone 1	acre	22.00	1.0000	22.00	_____
GROWTH REGULATORS					
Pix	oz	0.76	26.0000	19.76	_____
CUSTOM HARVEST/HAUL					
Haul Cotton	lb	0.02	931.0000	18.62	_____
SPRAY APP COSTS					
App Insect ? Air	acre	3.25	7.0000	22.75	_____
OPERATOR LABOR					
Tractors	hour	8.31	0.8840	7.35	_____
Self-Propelled Eq.	hour	8.31	0.1980	1.65	_____
HAND LABOR					
Implements	hour	6.91	0.3370	2.33	_____

DIESEL FUEL					
Tractors	gal	0.65	7.2266	4.70	_____
Self-Propelled Eq.	gal	0.65	1.9504	0.62	_____
REPAIR & MAINTENANCE					
Implements	acre	5.85	1.0000	5.85	_____
Tractors	acre	4.80	1.0000	4.80	_____
Self-Propelled Eq.	acre	4.59	1.0000	4.59	_____
INTEREST ON OP. CAP.	acre	18.17	1.0000	18.17	_____

TOTAL DIRECT EXPENSES				418.82	_____
FIXED EXPENSES					
Implements	acre	15.22	1.0000	15.22	_____
Tractors	acre	14.87	1.0000	14.87	_____
Self-Propelled Eq.	acre	17.35	1.0000	17.35	_____

TOTAL FIXED EXPENSES				47.44	_____

TOTAL SPECIFIED EXPENSES				466.26	_____

Note: Cost of production estimates are based on last year's input prices.

Appendix Table 10.C Estimated costs per acre, Grower 10, UNRC, BXN Variety Type, 10 inches, Central Delta, Mississippi, 1999.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (3 gal)	appl	2.60	2.0000	5.20	_____
HARVEST AIDS					
Prep	pt	6.46	1.2500	8.07	_____
Dropp 50 WP	lb	54.87	0.1260	6.91	_____
Starfire	pt	4.15	2.0000	8.30	_____
GIN/DRY					
Gin	lb	0.08	820.0000	65.60	_____
FERTILIZERS					
Fert 13-13-13	cwt	10.53	3.0000	31.59	_____
HERBICIDES					
Prowl 3.3 EC	pt	3.16	2.0000	6.32	_____
Zorial Rapid 80	lb	13.69	0.6000	8.21	_____
Buctril 4EC	pt	13.25	0.2700	3.58	_____
Select 2EC	oz	1.32	6.0600	8.00	_____
INSECTICIDES					
Ammo 2.5 EC	oz	1.70	1.8560	3.16	_____
Baythroid 2	oz	3.14	2.0000	6.28	_____
Furadan 4F	pt	8.38	0.5000	4.19	_____
Curacron 8E	pt	12.46	0.8900	11.09	_____
SEED/PLANTS					
Cotton Seed BXN	lb	0.95	40.0000	38.00	_____
TECHNOLOGY FEE					
Cot Tech Fee BXN	acre	9.00	1.0000	9.00	_____
Eradication Zone 1	acre	22.00	1.0000	22.00	_____
GROWTH REGULATORS					
Pix	oz	0.76	12.0000	9.12	_____
CUSTOM HARVEST/HAUL					
Haul Cotton	lb	0.02	820.0000	16.40	_____
SPRAY APP COSTS					
App Insect ? Ground	acre	3.30	3.4500	11.39	_____
App Herb. ? Ground	acre	3.30	1.0000	3.30	_____
App Insect ? Air	acre	3.25	1.0000	3.25	_____
OPERATOR LABOR					
Tractors	hour	8.31	0.9817	8.16	_____
Self-Propelled Eq.	hour	8.31	0.2729	2.27	_____
HAND LABOR					
Implements	hour	6.91	0.3619	2.50	_____

IRRIGATION LABOR					
Irrigate (.5 mi CP)	hour	6.91	0.0300	0.21	_____
DIESEL FUEL					
Tractors	gal	0.65	7.6326	4.96	_____
Self-Propelled Eq.	gal	0.65	1.1002	0.72	_____
Irrigate (.5 mi CP)	gal	0.65	6.8520	4.45	_____
REPAIR & MAINTENANCE					
Implements	acre	6.36	1.0000	6.36	_____
Tractors	acre	5.19	1.0000	5.19	_____
Self-Propelled Eq.	acre	5.81	1.0000	5.81	_____
Irrigate (.5 mi CP)	acre	3.57	1.0000	3.57	_____
INTEREST ON OP. CAP.	acre	17.66	1.0000	17.66	_____

TOTAL DIRECT EXPENSES				350.81	_____
FIXED EXPENSES					
Implements	acre	16.63	1.0000	16.63	_____
Tractors	acre	15.83	1.0000	15.83	_____
Self-Propelled Eq.	acre	19.59	1.0000	19.59	_____
Irrigate (.5 mi CP)	acre	24.66	1.0000	24.66	_____

TOTAL FIXED EXPENSES				76.71	_____

TOTAL SPECIFIED EXPENSES				427.51	_____

Note: Cost of production estimates are based on last year's input prices.

Appendix Table 11.C Estimated costs per acre, Grower 11, UNRC, BXN Variety Type, 10.0 inches, Central Delta, Mississippi, 1999.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (3 gal)	appl	2.60	2.0000	5.20	_____
HARVEST AIDS					
Prep	pt	6.46	1.2500	8.07	_____
Dropp 50 WP	lb	54.87	0.1260	6.91	_____
Starfire	pt	4.15	2.0000	8.30	_____
GIN/DRY					
Gin	lb	0.08	603.0000	48.24	_____
FERTILIZERS					
Fert 13-13-13	cwt	10.53	3.0000	31.59	_____
HERBICIDES					
Prowl 3.3 EC	pt	3.16	2.0000	6.32	_____
Zorial Rapid 80	lb	13.69	0.6000	8.21	_____
Buctril 4EC	pt	13.25	0.2700	3.58	_____
Select 2EC	oz	1.32	6.0600	8.00	_____
INSECTICIDES					
Ammo 2.5 EC	oz	1.70	1.8560	3.16	_____
Baythroid 2	oz	3.14	2.0000	6.28	_____
Furadan 4F	pt	8.38	0.5000	4.19	_____
Curacron 8E	pt	12.46	0.8900	11.09	_____
SEED/PLANTS					
Cotton Seed BXN	lb	0.95	40.0000	38.00	_____
TECHNOLOGY FEE					
Cot Tech Fee BXN	acre	9.00	1.0000	9.00	_____
Eradication Zone 1	acre	22.00	1.0000	22.00	_____
GROWTH REGULATORS					
Pix	oz	0.76	12.0000	9.12	_____
CUSTOM HARVEST/HAUL					
Haul Cotton	lb	0.02	603.0000	12.06	_____
SPRAY APP COSTS					
App Insect ? Ground	acre	3.30	3.4500	11.39	_____
App Herb. ? Ground	acre	3.30	1.0000	3.30	_____
App Insect ? Air	acre	3.25	1.0000	3.25	_____
OPERATOR LABOR					
Tractors	hour	8.31	0.9817	8.16	_____
Self-Propelled Eq.	hour	8.31	0.2729	2.27	_____
HAND LABOR					
Implements	hour	6.91	0.3619	2.50	_____

DIESEL FUEL					
Tractors	gal	0.65	7.6326	4.96	_____
Self-Propelled Eq.	gal	0.65	1.1002	0.72	_____
REPAIR & MAINTENANCE					
Implements	acre	6.36	1.0000	6.36	_____
Tractors	acre	5.19	1.0000	5.19	_____
Self-Propelled Eq.	acre	5.81	1.0000	5.81	_____
INTEREST ON OP. CAP.	acre	16.64	1.0000	16.64	_____

TOTAL DIRECT EXPENSES				319.86	_____
FIXED EXPENSES					
Implements	acre	16.63	1.0000	16.63	_____
Tractors	acre	15.83	1.0000	15.83	_____
Self-Propelled Eq.	acre	19.59	1.0000	19.59	_____

TOTAL FIXED EXPENSES				52.05	_____

TOTAL SPECIFIED EXPENSES				371.91	_____

Note: Cost of production estimates are based on last year's input prices.

Appendix Table 12.C Estimated costs per acre, Grower 12, UNRC, Bt, 10-inch, South Delta, Mississippi, 1999.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (3 gal)	appl	2.60	5.0000	13.00	_____
Apply Fert by Air	acre	4.00	1.0000	4.00	_____
App by Air (5 gal)	appl	3.25	2.0000	6.50	_____
HARVEST AIDS					
Finish	pt	6.80	2.0000	13.60	_____
Starfire	pt	4.15	2.0000	8.30	_____
GIN/DRY					
Gin	lb	0.08	851.0000	68.08	_____
FERTILIZERS					
Urea, Solid (46% N)	cwt	8.22	2.0000	16.44	_____
FUNGICIDES					
Bravo	oz	6.12	2.0000	12.24	_____
HERBICIDES					
Roundup Ultra 4SL	pt	5.68	2.0000	11.36	_____
Zorial Rapid 80	lb	13.69	1.5000	20.54	_____
Cotoran 4L	pt	4.19	3.0000	12.57	_____
Prowl 3.3 EC	pt	3.16	3.0000	9.48	_____
Select 2EC	oz	1.32	0.6000	0.79	_____
Staple	oz	20.85	1.5000	31.28	_____
SEED/PLANTS					
Bt Cotton Seed	lb	0.99	38.0000	37.62	_____
TECHNOLOGY FEE					
Bt Cotton Fee	acre	32.00	1.0000	32.00	_____
Eradication Zone 4	acre	22.00	1.0000	22.00	_____
Eradication Zone 1	acre	22.00	1.0000	22.00	_____
GROWTH REGULATORS					
Pix	oz	0.76	22.0000	16.72	_____
SERVICE FEE					
Insect Scouting	acre	6.00	1.0000	6.00	_____
CUSTOM HARVEST/HAUL					
Haul Cotton	lb	0.02	851.0000	17.02	_____
OPERATOR LABOR					
Tractors	hour	8.31	0.5570	4.63	_____
Self-Propelled Eq.	hour	8.31	0.1980	1.65	_____
HAND LABOR					
Implements	hour	6.91	0.3370	2.33	_____

DIESEL FUEL					
Tractors	gal	0.65	4.5415	2.95	_____
Self-Propelled Eq.	gal	0.65	0.9504	0.62	_____
REPAIR & MAINTENANCE					
Implements	acre	4.76	1.0000	4.76	_____
Tractors	acre	3.07	1.0000	3.07	_____
Self-Propelled Eq.	acre	4.59	1.0000	4.59	_____
INTEREST ON OP. CAP.	acre	20.77	1.0000	20.77	_____

TOTAL DIRECT EXPENSES				426.89	_____
FIXED EXPENSES					
Implements	acre	12.60	1.0000	12.60	_____
Tractors	acre	9.37	1.0000	9.37	_____
Self-Propelled Eq.	acre	17.35	1.0000	17.35	_____

TOTAL FIXED EXPENSES				39.32	_____

TOTAL SPECIFIED EXPENSES				466.21	_____

Note: Cost of production estimates are based on last year's input prices.

Appendix Table 13.C Estimated costs per acre, Grower 13, Conventional Variety, 10 inches, South Delta, Mississippi, 1999.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	3.25	1.0000	3.25	_____
Apply Fert by Air	acre	4.00	1.0000	4.00	_____
HARVEST AIDS					
Def 6	pt	5.28	0.5000	2.64	_____
Prep	pt	6.46	1.5000	9.69	_____
Starfire	pt	4.15	2.0000	8.30	_____
GIN/DRY					
Gin	lb	0.08	685.0000	54.80	_____
FERTILIZERS					
Urea, Solid (46% N)	cwt	8.22	0.5000	4.11	_____
Amm Nitrate (34% N)	cwt	9.15	1.2500	11.44	_____
HERBICIDES					
Roundup Ultra 4SL	pt	5.68	1.5000	8.52	_____
Staple	oz	20.85	1.7000	35.45	_____
Prowl 3.3 EC	pt	3.16	2.0000	6.32	_____
Cotoran 4L	pt	4.19	3.0000	12.57	_____
Gramoxone Extra	pt	4.41	2.0000	8.82	_____
INSECTICIDES					
Ammo 2.5 EC	oz	1.70	2.5600	4.35	_____
Furadan 4F	pt	8.38	0.4000	3.35	_____
Orthene 90S	lb	9.41	1.5000	14.12	_____
Methyl 4EC	pt	3.50	0.5000	1.75	_____
Decis 1.5EC	oz	3.56	2.5600	9.11	_____
Tracer	oz	5.84	3.9400	23.01	_____
SEED/PLANTS					
Cotton Seed	lb	0.94	30.0000	28.20	_____
TECHNOLOGY FEE					
Eradication Zone 2	acre	22.00	1.0000	22.00	_____
GROWTH REGULATORS					
Pix	oz	0.76	8.0000	6.08	_____
SERVICE FEE					
Insect Scouting	acre	6.00	1.0000	6.00	_____
CUSTOM HARVEST/HAUL					
Haul Cotton	lb	0.02	685.0000	13.70	_____
OPERATOR LABOR					
Tractors	hour	8.31	1.3250	11.01	_____
Self-Propelled Eq.	hour	8.31	0.1980	1.65	_____

HAND LABOR					
Implements	hour	6.91	0.6320	4.37	_____
DIESEL FUEL					
Tractors	gal	0.65	10.4184	6.77	_____
Self-Propelled Eq.	gal	0.65	0.9504	0.62	_____
REPAIR & MAINTENANCE					
Implements	acre	7.49	1.0000	7.49	_____
Tractors	acre	7.10	1.0000	7.10	_____
Self-Propelled Eq.	acre	4.59	1.0000	4.59	_____
INTEREST ON OP. CAP.	acre	16.21	1.0000	16.21	_____

TOTAL DIRECT EXPENSES				361.37	_____
FIXED EXPENSES					
Implements	acre	18.04	1.0000	18.04	_____
Tractors	acre	21.66	1.0000	21.66	_____
Self-Propelled Eq.	acre	17.35	1.0000	17.35	_____

TOTAL FIXED EXPENSES				57.05	_____

TOTAL SPECIFIED EXPENSES				418.42	_____

Note: Cost of production estimates are based on last year's input prices.