
Costs, Yields, and Net Returns, Commercial No-Till Cotton Production,
Mississippi, 1999

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Abstract

An analysis of a 1999 sample of ten no-till producers indicates that over a reasonable range of cotton lint prices, no-till cotton production may result in larger net returns per acre than conventional tillage. However, the authors caution that additional analysis based on a larger sample of commercial no-till growers on better cotton soils is needed.

Keywords: no-till, spindle harvest, cost of production, yield

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BY:

D. W. Parvin and F. T. Cooke

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Appendix C

**Costs, Yields, and Net Returns,
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Abstract

An analysis of a 1999 sample of ten no-till producers indicates that over a reasonable range of cotton lint prices, no-till cotton production may result in larger net returns per acre than conventional tillage. However, the authors caution that additional analysis based on a larger sample of commercial no-till growers on better cotton soils is needed.

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 conventional production practices, but their rate of return has been 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 ten Mississippi cotton growers with no-till production in 1999.

Ultra narrow row cotton (UNRC) is often grown no-till. No-till UNRC is addressed in a related report by the authors devoted exclusively to UNRC (stripper harvest). This publication is restricted to no-till cotton production based on standard row spacings and conventional or spindle harvest.

The data presented in the report is limited to the Delta and Brown Loam. No-till 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 no-till cotton, even though this study is based on limited observations.

Introduction

Several years of research in Mississippi and other mid-south states, especially at the University of Tennessee Milan Experiment Station, has demonstrated that no-till cotton can be produced successfully in previous crop stubble or in killed small grains that were grown for winter cover (Bradley).

In general terms, Mississippi cotton growers that have shifted from conventional production practices to systems of no-till production have been among the state's better producers, but due to the yield potential of their particular cotton soils have historically experienced lower yields. Direct comparison of their no-till yields to conventionally produced cotton yields from superior or higher yielding soils would not be appropriate. An estimate of net returns by soil type (yield potential) is the appropriate measure for comparing alternative cotton production systems.

Tennessee. – Table 1 reports the results of a University of Tennessee 14-year no-till versus conventional tillage study for cotton planted into wheat and old cotton stubble. While the averages do not differ significantly, the numbers indicate that no-till cotton can produce yields as high as conventionally tilled cotton and yields in the range of two bales per acre are not unexpected.

Table 2 provides the results of a second study at the Milan Experiment Station conducted during the period 1991-1995. Although the yields do not differ significantly, the percent first pick, an indication of earliness, favors no-till. The average percent first harvest of 82 versus 77 indicates that an additional five percentage points or approximately 7% of the yield is not at risk

for price reductions and weight loss due to weather.

Average cotton lint yields per acre for no-till versus conventional tillage from an additional three-year Tennessee study are reported in Table 3. The results indicate an average increase of seven percent for no-till when compared to conventional tillage. Interested readers are referred to Hart, et al for additional information on row spacing and growth regulators.

Alabama. – Some growers in North Alabama reported lower cotton yields in fields that had been in no-till production for two or more consecutive years. Burmester, Patterson, and Reeves hypothesized the lower yields may have been due to increased soil compaction or herbicide build-up in the heavier soils of the region. Table 4 summarizes a three-year study designed to research this problem on a Decatur silt loam soil, the major soil type of the region. The data indicates that conventional tillage outyielded no-till for the period 1994-1996. However, the trend in the no-till yields does not differ from the trend in the conventionally tilled cotton.

The expectation in north Alabama that no-till cotton production results in lower yields after two or more consecutive years is contrary to much of the literature reporting multi-year no-till research on cotton and other crops. In general, no-till yields tend to improve over time relative to conventionally tilled yields.

Louisiana. – Researchers in Louisiana have addressed the possibility that the trend in yields differ over time by separating their data by years when no-till is compared to conventional tillage. Table 5 reports the results of a 1991-1996 Louisiana study with the yields summarized in two three-year periods. The no-till system exhibits a positive trend, the conventional tillage system does not.

Table 6 summarizes the effect of tillage systems on cotton yield on a Gigger silt loam soil in a ten-year Louisiana study. The data is separated in three-year increments, except for the initial year, 1987. The no-till data exhibits a positive trend over time, but it does not differ from the trend exhibited by the conventionally tilled system.

Mississippi. – Most of the no-till cotton research in Mississippi has focused on weed control (Hurst, 1983, 1994b, 1996, 1999). Table 7 summarizes a four-year study which reported yields by tillage systems. This data indicates a reduction of 7% when no-till is compared to conventional tillage, and is representative of much of the research results on the deep sandy soils of the region.

Methodology

During the 1999 production season, detailed information on every trip across the field was taken from ten commercial operations that employed no-till cotton production techniques on all or a significant part of their acreage. Actual yields were recorded. The information was utilized to construct per acre budget tables for each of the operations (Spurlock and Laughlin).

The Department of Agricultural Economics, Mississippi State University, releases estimates of the per acre cost of producing 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) 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. The standard or conventional budget is employed to compare net returns above total specified expenses for the

conventional or standard method of production and the ten no-till operations at \$0.50, \$0.60, and \$0.70 per pound of lint. (The price of seed is fixed at \$0.05 per pound).

Study Area

Four of the cooperating farms (labeled grower 01-04) are located in the Brown Loam and six (labeled grower 05-10) are located in the Delta region of the state. The Delta region is comprised of alluvial soils (water deposited) and generally lies east 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.

Results

The estimated per acre resource use and costs for field operations is reported in Appendix A, Tables 1-10 for growers 01-10. A summary of per acre costs and returns is listed in Appendix B for growers 01-10. Additional detail is provided for direct expense items in Appendix C. Nine of the ten no-till growers used genetically modified seed (GMS). The standard budget employs conventional seed. The no-till budgets (nine of ten) reflect a per acre change for the GMS. The no-till budgets reflect the cost of boll weevil eradication (BWE). The published standard budget does not. A cost of \$22.00 per acre for BWE is added to the standard budget, increasing total direct expenses to \$476.16 per acre.

Yield History. – Historical yields for the ten no-till growers are listed in Table 8. Twenty-nine yields are reported. They range from 526 to 1,050 pounds of lint per acre. Seven

observations are greater than 825. The 29 observations average 735 pounds of lint per acre.

Selected Comparisons. – Table 9 summarizes selected technical and monetary parameters for standard or conventional tillage and the ten no-till operations that were sampled. Only one of the no-till yields is larger than the expected standard yield of 825. The no-till yields average 709 or 14% less than the standard yield. In addition, the 1999 average no-till yield underestimates the historical no-till average yield of 735 by 3.5%.

The standard tillage system employed a conventional variety and was not charged a GMS technology fee. Nine of the ten no-till growers used GMS and were charged a GMS technology fee ranging from \$9.00 to \$41.00 per acre. The standard seed cost per acre is based on 15 pounds of seed. None of the no-till growers used that many pounds of seed. The standard seed cost of \$14.40 per acre is larger than any seed cost associated with the no-till systems.

Three of the no-till growers experienced fertilizer cost greater than the standard, while nine of ten reported herbicide cost larger than the standard. None of the no-till growers had insecticide cost as large as the \$77.51 reported for the standard. This was not unexpected since eight of the ten employed Bt varieties, and 1999 was a year with below average insect pressure.

Repairs and maintenance are direct cost items associated with tractors, self-propelled equipment (pickers and hi-clearance sprayers), and towed implements. This category, along with operator labor and diesel fuel, are correlated with “trips-over-the-field”. In every case, the three categories favor no-till. Only one of the estimates of direct expenses for no-till were larger than the standard. However, two more were almost as large. The smallest (\$288.30) was 40% less than the standard estimate of direct expenses of \$476.16. Fixed expenses ranged from 15% to

38% less than the standard. Total specified expenses for no-till were less than the standard in 9 of 10 cases.

Net Returns. – Table 10 reports net returns per acre above total specified expenses by tillage systems and the different (no-till minus standard) or improvement due to no-till when compared to the standard. When the price of cotton lint is \$0.50 per pound, the standard budget loses \$82.65 per acre. Four of the no-till budgets have positive net returns, one loses more than the standard and the other six lose money, but less than the standard. On average, the no-till budgets lose \$22.58 per acre, an improvement of \$60.07 over the standard.

At \$0.60 per pound of lint, the standard budget experiences a loss of \$0.15 per acre. Seven of the no-till budgets have positive net returns, and three lose more than the standard. On average, the no-till budgets have a positive net return of \$48.36 compared to a negative net return for the standard.

When the price of cotton lint is \$0.70, net returns for all budgets are positive. Net returns above total specified expenses per acre for the standard budget are \$82.35. In four of ten cases, the standard has larger net returns above total specified expenses than no-till. On average, the no-till budgets have a positive net return of \$119.86, an improvement of \$37.51 compared to the standard.

Summary. – At \$0.50 per pound of lint, even though six of the ten no-till budgets lose money, and on average experience negative net returns of approximately \$23 per acre, this sample of no-till growers are about \$60 per acre better off than the standard. At \$0.60 per pound of lint, on average, this sample of no-till growers make about \$48 per acre more than the standard. When the price of lint is \$0.70 per pound, even though four of the ten no-till budgets are outperformed by the standard, on average, the no-till producers make almost \$120 per acre, an improvement of approximately \$37 above the standard. Over a reasonable range of prices, this sample of ten no-till growers with their actual 1999 yields and costs, are better off than the standard or conventional tillage budget based on expected yield and costs.

Limitations

The observed no-till yields are probably biased downward due to a lack of rainfall. The standard of conventional tillage yield of 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 budget reflects average insect control costs which are probably biased upward for 1999 conditions. No-till insecticide cost for 1999 are likely biased downward. Additionally, the sample of ten no-till growers is small and may not accurately represent the potential population of no-till growers.

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 no-till are farming land without the highest yield potential. A larger sample of commercial no-till cotton growers with better cotton

soils will be required before the difference in no-till and conventional tillage net returns can be estimated with a reasonable degree of confidence.

Conclusions

These conclusions are based as much on a review of related research and the knowledge that the current Mississippi acreage devoted to no-till cotton production has a reduced yield potential as the results of the 1999 sample of ten no-till systems summarized in this report. If the perceived problem of deep tillage can be resolved, in the opinion of the authors, no-till and conventional tillage yields on the same soil type will not differ. No-till herbicide costs will exceed conventional tillage herbicide cost. Fertilizer, insecticide, and seed costs should be equal. Items correlated with “trips-over-the-field” such as labor, fuel, repairs, and maintenance will favor no-till. The sum of direct expenses should favor no-till. Fixed expenses will favor no-till due to smaller tractor requirements and a less expensive set of towed equipment. An analysis, which includes crop rotations, should enhance the benefits of no-till.

Table 1. Cotton Lint Yields, No-Till (NT) vs. Conventional Tillage (CT), Planted Into Wheat or Rye And Old Cotton Stubble, Milan Experiment Station, Tennessee, 1981-1994.

Year	Wheat		Cotton Stubble	
	NT	CT	NT	CT
	Lb/acre	Lb/acre	Lb/acre	Lb/acre
1981	273	382	N/A	N/A
1982	940	937	N/A	N/A
1983	508	336	535	529
1984	1071	1146	1034	1321
1985	1040	1048	1058	1028
1986	854	853	798	781
1987	919	987	1065	986
1988	767	690	767	690
1989	902	949	842	690
1990	992	889	657	813
1991	941	767	1021	873
1992	1194	1181	1320	1233
1993	669	571	751	552
1994	1201	1346	1111	1253
Average	877	863	913	896
NT/CT	1.02		1.02	

Source: Bradley

Table 2. Cotton Lint Yield And Earliness, No-Till (NT) vs. Conventional Tillage (CT), Grenada Silt Loam, Milan Experiment Station, Tennessee, 1991-1995.

Year	Lint Yield		First Harvest	
	NT	CT	NT	CT
	Lb/acre		%	
1991	941	848	82	67
1992	1233	1182	76	73
1993	669	571	88	87
1994	1201	1346	83	75
1995	1041	1058	83	83
Average	1017	1001	82	77
NT/CT	1.02		1.07	

Source: Huskin and Gwathmey

Table 3. Average Cotton Lint Yields, No-Till (NT) vs. Conventional Tillage (CT), Three-Year Study, Milan Experiment Station, Tennessee, 1992-1994.

Year	NT	CT
	Lb/acre	Lb/acre
1992	1245	1179
1993	681	586
1994	1500	1441
Average	1142	1069
NT/CT	1.07	

Source: Hart, et al.

Table 4. Effect of No-Till (NT) vs. Conventional Tillage (CT) on Seed Cotton Yields, Decatur Silt Loam, Auburn Experiment Station, Tennessee Valley Substation, 1994-1996.

Year	NT	CT
	Lb/acre	Lb/acre
1994	3770	3880
1995	2170	2298
1996	3260	3558
Average	3067	3245

Source: From Table 3, Burmester, Patterson and Reeves, 1997.

Table 5. Cotton Lint Yield, No-Till (NT) vs. Conventional Tillage (CT), Averaged Over Three Fertilizer Rates (N=70, 105, and 140) And Three Cover Crops, Louisiana, 1991-1996.

Year	NT	CT
	Lb/acre	Lb/acre
1991-1993	1186	1183
1994-1996	1275	1194
Average	1231	1189
NT/CT	1.04	

Source: From Table 1, Boquet et al, 1997a.

Table 6. Effects of No-Till (NT) vs. Conventional Tillage (CT), on Cotton Lint Yield, Averaged Over Four Cover Crops, Gigger Silt Loam Soil, Macon Ridge Research Station, Winnsboro, Louisiana, 1987-1996.

Year	NT	CT
	Lb/acre	Lb/acre
1987	674	654
1988-1990	604	671
1991-1993	829	779
1994-1996	979	921
Average	791	777
NT/CT	1.03	

Source: From Table 4, Boquet et al, 1997b.

Table 7. Seed Cotton Yields Per Acre, No-Till (NT) vs. Conventional Tillage (CT), Stoneville, Mississippi, 1990-1993.

	Yield
NT	2410
CT	2590
NT, CT	0.93

Table 8. No-Till Yield (pound of lint per acre), 10 Growers, Selected Years, Mississippi.

Grower	Year	Yield	Acres
01	99	526	200
	98	565	200
02	99	621	220
	98	670	220
	97	745	200
03	99	584	180
	98	625	200
	97	720	180
04	99	755	500
	98	800	500
05	99	675	95
06	99	1125	480
07	99	722	810
	98	725	670
	97	950	1020
	96	845	1350
	95	846	NA
	94	957	NA
	93	711	NA
	92	697	NA
08	99	750	360
	98	550	300
	97	888	550
	96	637	550
	95	750	550
09	99	711	280
10	99	625	450
	98	750	350
	97	1050	325
Average		744	

Table 9. Per acre yield (pounds of lint) variety type, and selected per acre cost items by tillage systems, Mississippi, 1999.

Tillage System	Yield	Variety	Seed	Seed Tech. Fee	Fert.	Herb.	Insect.	Operator Labor	Diesel Fuel	Repairs & Maint.	Dir. Expen.
Standard ¹	825	Conv.	14.40	-	45.04	48.89	77.51	17.50	10.17	35.28	476.
No-Till											
01	526	BtRR	9.50	41.00	32.64	41.14	13.41	9.31	4.16	22.87	288.
02	621	Bt	10.89	32.00	45.57	57.45	25.36	10.78	5.48	23.62	337.
03	584	Bt	11.88	32.00	50.48	65.45	40.76	11.34	4.80	26.45	298.
04	755	BtRR	10.00	41.00	35.27	66.56	13.34	12.94	6.12	26.08	368.
05	675	Conv.	8.93	-	13.94	77.23	11.35	13.27	7.16	27.61	304.
06	1125	BtRR	11.00	41.00	62.77	58.16	42.60	14.23	7.08	27.98	494.
07	722	Bt	9.90	32.00	40.43	117.62	52.48	11.06	5.69	23.29	444.
08	750	Bt	11.88	32.00	44.42	84.24	32.27	16.49	8.74	28.78	444.
09	711	Bt	9.90	32.00	17.66	49.86	11.17	12.03	6.47	23.95	305.
10	625	BXN	14.25	9.00	25.75	97.14	19.62	13.17	6.98	25.61	336.
No-Till Avg.	709										

¹Source: Robinson, Table 1.A – Table 1.E, p. 6-9.

Table 10. Estimated per acre net returns above total specified expenses by tillage systems, selected prices of cotton lint, and improvement due to no-till (no-till minus standard).

Tillage System	Price					
	--\$0.50--		--\$0.60--		--\$0.70--	
	Net Returns	Difference	Net Returns	Difference	Net Returns	Difference
Standard¹	-82.65		-0.15		82.35	
No-Till						
01	-35.59	47.06	17.03	17.18	69.63	-12.72
02	-34.02	48.63	28.06	28.21	90.16	7.81
03	-119.56	-36.91	-61.15	-61.00	2.75	-79.60
04	7.12	89.77	82.63	82.78	158.13	75.78
05	19.66	102.31	87.17	87.32	154.67	72.32
06	89.42	172.07	201.92	202.07	314.42	232.07
07	-81.99	0.66	-9.79	-9.64	62.42	-19.93
08	-81.75	0.90	-6.75	-6.60	68.26	-14.09
09	47.67	130.32	118.77	118.92	189.93	107.58
10	-36.79	45.86	25.72	25.87	88.22	5.87
Avg. (01-10)	-22.58	60.07	48.36	48.51	119.86	37.51

¹Source: Robinson, Table 1.A – Table 1.E, p. 6-9.

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APPENDIX A

Appendix Table 1.A Estimated resource use and costs for field operations, per acre, Grower 01, No-Till Cotton, Bt RR Variety, 8-row, 38-inch, Solid, North Brown Loam, Mississippi, 1999.

LABOR OPERATION/ -----	OPERATING INPUT		TRACTOR SIZE	PERF RATE	TIMES OVER MTH	TRACTOR COST		EQUIP COST		ALLOC HOURS	
	AMOUNT	PRICE				DIRECT	FIXED	DIRECT	FIXED		
Spray (Broadcast)	27'		190 hp	0.061	1.00	Apr	0.77	1.17	0.14	0.20	0.092
0.72			3.00								
Roundup Ultra 4SL	pt										
1.5000	5.68	8.52	8.52								
Flotation Tractor	acre				1.00	Apr					
1.0000	4.00	4.00	4.00								
Fert 13-13-13	cwt										
3.1000	10.53	32.64	32.64								
No-Till Plant & Pre	8R-40		190 hp	0.092	1.00	May	1.16	1.76	1.31	3.18	0.184
1.40			8.81								
Cotton Seed Bt RR	lb										
9.5000	1.00	9.50	9.50								
Cot Tech Fee Bt RR	acre										
1.0000	41.00	41.00	41.00								
Gramoxone Extra	pt										
1.0000	4.41	4.41	4.41								
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	1.00	Jun			0.58	0.98	0.033

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0.27				1.84															
	Caparol + MSMA		pt																
	0.5000	2.94		1.47	1.47														
	Roundup Ultra 4SL		pt																
	1.0000	5.68		5.68	5.68														
	Hi-Clear Sprayer		60'			0.033	1.00	Jun				0.58	0.98	0.033					
0.27				1.84															
	Karmex DF		lb																
	1.5000	4.57		6.86	6.86														
	Roundup Ultra 4SL		pt																
	1.0000	5.68		5.68	5.68														
	Hi-Clear Sprayer		60'			0.033	1.00	Jul				0.58	0.98	0.033					
0.27				1.84															
	Bidrin 8L		oz																
	6.0000	0.69		4.14	4.14														
	Hi-Clear Sprayer		60'			0.033	1.00	Aug				0.58	0.98	0.033					
0.27				1.84															
	Orthene 90S		lb																
	0.7500	9.41		7.06	7.06														
	App by Air (5 gal)		appl				1.00	Sep											
	1.0000	3.25		3.25	3.25														
	Def 6		pt																
	1.3700	5.28		7.23	7.23														
	Dropp 50 WP		lb																
	0.1260	54.87		6.91	6.91														
	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															
	Cotton Picker-1st-BB 4-Row				0.181	1.00	Sep			14.68	26.90	0.362							
3.01				44.59															
	Haul Cotton		lb				1.00	Sep											
	526.0000	0.02		10.52	10.52														
	Gin		lb				1.00	Sep											
	526.0000	0.08		42.08	42.08														
-----										-----									
TOTALS																			
				11.67	235.68	325.43					5.95	9.38	21.07	41.67	1.463				
INTEREST ON OPERATING CAPITAL												13.91							
UNALLOCATED LABOR												0.00							
TOTAL SPECIFIED COST												339.34							

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, No-Till Cotton, Bt Variety, 8-row, Solid (40-inch), Central Brown Loam, Mississippi, 1999.

LABOR OPERATION/ -----	OPERATING INPUT		TRACTOR SIZE	TRACTOR TOTAL SIZE COST	PERF RATE	TIMES OVER MTH	TRACTOR COST		EQUIP COST		ALLOC HOURS
	AMOUNT	PRICE					UNIT COST	DIRECT	FIXED	DIRECT	
Stalk Shredder	12'		150 hp	0.142	1.00	Nov	1.47	2.30	0.24	0.97	0.142
1.18			6.16								
Spray (Broadcast)	60'		170 hp	0.027	1.00	Apr	0.31	0.47	0.08	0.12	0.041
0.32			1.29								
Roundup Ultra 4SL	pt										
2.0000	5.68		11.36								
Spin Spreader	4 ton		150 hp	0.100	1.00	Apr	1.03	1.62	0.71	1.31	0.200
1.52			6.19								
Amm Nitrate (34% N)	cwt										
2.7500	9.15		25.16								
Potash (60% K2O)	cwt										
1.0000	8.35		8.35								
Spray (Broadcast)	60'		170 hp	0.027	1.00	May	0.31	0.47	0.08	0.12	0.041
0.32			1.29								
Roundup Ultra 4SL	pt										
1.5000	5.68		8.52								
No-Till Plant & Pre	8R-40		170 hp	0.092	1.00	May	1.05	1.59	1.31	3.18	0.184
1.40			8.52								
Bt Cotton Seed	lb										
11.0000	0.99		10.89								
Bt Cotton Fee	acre										
1.0000	32.00		32.00								
Prowl 3.3 EC	pt										
2.0000	3.16		6.32								
Cotoran 4L	pt										
3.0000	4.19		12.57								
Eradication Zone 3	acre					1.00	May				
1.0000	24.00		24.00								
Fert Appl (Liquid)	8R-40		170 hp	0.074	1.00	May	0.84	1.28	0.34	1.00	0.111
0.87			4.34								
UAN (32% N)	cwt										
2.0000	6.03		12.06								
Hi-Clear Sprayer	60'			0.033	1.00	Jun			0.58	0.98	0.033
0.27			1.84								
Buctril 4EC	pt										
0.8000	13.25		10.60								
MSMA6 + Surfactant	pt										
3.5000	1.97		6.90								
Assure II	oz										
1.3300	0.89		1.18								
App by Air (2 gal)	appl					1.00	Aug				
1.0000	2.20		2.20								
Furadan 4F	pt										
2.0000	8.38		16.76								
App by Air (2 gal)	appl					1.00	Aug				
1.0000	2.20		2.20								
Lannate LV	pt										
1.5000	5.73		8.60								
App by Air (5 gal)	appl					1.00	Sep				
1.0000	3.25		3.25								
Def 6	pt										

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	1.3300	5.28	7.02	7.02								
Dropp 50 WP			lb									
	0.1260	54.87	6.91	6.91								
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								
Cotton Picker-1st-BB 4-Row				0.181	1.00	Oct			14.68	26.90	0.362	
	3.01			44.59								
Haul Cotton			lb		1.00	Oct						
	621.0000	0.02	12.42	12.42								
Gin			lb		1.00	Oct						
	621.0000	0.08	49.68	49.68								

TOTALS							9.02	14.17	20.07	41.04	1.773	
14.07		278.95	377.33									
INTEREST ON OPERATING CAPITAL				15.34								
UNALLOCATED LABOR				0.00								
TOTAL SPECIFIED COST				392.67								

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, No-Till Cotton, Bt Variety, 8-row, (40-inch), Central Brown Loam, Mississippi, 1999.

LABOR OPERATION/ -----	OPERATING INPUT		UNIT	TRACTOR SIZE	TRACTOR TOTAL SIZE	PERF RATE	TIMES OVER	MTH	TRACTOR COST		EQUIP COST		ALLOC HOURS
	COST	AMOUNT							PRICE	COST	DIRECT	FIXED	
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										
2.0000	5.68		11.36		11.36								
Bladex 4L			qt										
0.8000	6.83		5.46		5.46								
Spin Spreader			4 ton		150 hp	0.100	1.00	Apr	1.03	1.62	0.71	1.31	0.200
1.52					6.19								
Phosphorus(46% P2O5)			cwt										
1.5000	12.47		18.71		18.71								
Potash (60% K2O)			cwt										
2.0000	8.35		16.70		16.70								
No-Till Plant & Pre			8R-40		170 hp	0.092	1.00	May	1.05	1.59	1.31	3.18	0.184
1.40					8.52								
Bt Cotton Seed			lb										
12.0000	0.99		11.88		11.88								
Bt Cotton Fee			acre										
1.0000	32.00		32.00		32.00								
Cotoran 4L			pt										
1.5000	4.19		6.29		6.29								
Temik 15G			lb										
3.0000	3.19		9.57		9.57								
Ridomil PC 11G			lb										
6.0000	1.70		10.20		10.20								
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								
Buctril 4EC			pt										
1.0000	13.25		13.25		13.25								
Fert Appl (Liquid)			8R-40		170 hp	0.074	1.00	May	0.84	1.28	0.34	1.00	0.111
0.87					4.34								
UAN (32% N)			cwt										
2.5000	6.03		15.08		15.08								
Hi-Clear Sprayer			60'			0.033	1.00	May			0.58	0.98	0.033
0.27					1.84								
Select 2EC			oz										
12.0000	1.32		15.84		15.84								
Hi-Clear Sprayer			60'			0.033	1.00	Jun			0.58	0.98	0.033
0.27					1.84								
Buctril 4EC			pt										
1.0000	13.25		13.25		13.25								
Hi-Clear Sprayer			60'			0.033	1.00	Jun			0.58	0.98	0.033
0.27					1.84								
Karate			oz										
8.0000	1.88		15.04		15.04								
Hi-Clear Sprayer			60'			0.033	1.00	Jul			0.58	0.98	0.033
0.27					1.84								
Methyl 4EC			pt										
0.6700	3.50		2.35		2.35								
Hi-Clear Sprayer			60'			0.033	1.00	Jul			0.58	0.98	0.033
0.27					1.84								
Methyl 4EC			pt										
0.6700	3.50		2.35		2.35								
Pix			oz										
8.0000	0.76		6.08		6.08								
Hi-Clear Sprayer			60'			0.033	1.00	Aug			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	Aug			0.58	0.98	0.033
0.27					1.84								
Pix			oz										
16.0000	0.76		12.16		12.16								
Lannate LV			pt										
1.0000	5.73		5.73		5.73								
App by Air (2 gal)			appl					1.00	Aug				
1.0000	2.20		2.20		2.20								
Lannate LV			pt										

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App by Air (5 gal) appl	1.0000	5.73	5.73	5.73									
Def 6	1.0000	3.25	3.25	3.25		1.00	Sep						
Boll Buggy	2.0000	5.28	10.56	10.56	0.220	1.00	Oct	2.01	3.22	0.95	3.01	0.220	
Module Builder			32'	130 hp	0.220	1.00	Oct	2.01	3.22	1.09	3.46	0.440	
Cotton Picker-1st-BB 4-Row				13.13	0.181	1.00	Oct			14.68	26.90	0.362	
Haul Cotton			lb			1.00	Oct						
Gin	584.0000	0.02	11.68	11.68		1.00	Oct						
	584.0000	0.08	46.72	46.72									

TOTALS			333.50	437.84				6.94	10.94	24.31	47.70	1.814	
INTEREST ON OPERATING CAPITAL				18.97									
UNALLOCATED LABOR				0.00									
<u>TOTAL SPECIFIED COST</u>				<u>456.81</u>									

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, No-Till Cotton, Bt RR Variety, 8-row,

40-inch, Solid, South Brown Loam, Mississippi, 1999.

LABOR OPERATION/ -----	OPERATING INPUT		UNIT	TRACTOR SIZE	TRACTOR TOTAL COST	PERF RATE	TIMES OVER MTH	TRACTOR COST		EQUIP COST		ALLOC HOURS	
	COST	AMOUNT						PRICE	COST	DIRECT	FIXED		DIRECT
dollars			-----dollars-----			-----dollars-----							
Stalk Shredder			12'	150 hp	6.16	0.142	1.00	Oct	1.47	2.30	0.24	0.97	0.142
1.18													
Lime (Spread)			ton		8.82		1.00	Nov					
	0.3300	26.73											
Flotation Tractor			acre		4.00		1.00	Nov					
	1.0000	4.00											
Fert 0-17-34			cwt		3.60								
	0.3500	10.29											
Hi-Clear Sprayer			60'		1.84	0.033	1.00	Mar			0.58	0.98	0.033
0.27													
Roundup Ultra			4SL pt		8.52								
	1.5000	5.68											
2,4-D Ester			pt		1.75								
	1.0000	1.75											
Hi-Clear Sprayer			60'		1.84	0.033	1.00	Apr			0.58	0.98	0.033
0.27													
Roundup Ultra			4SL pt		11.36								
	2.0000	5.68											
Plant & Pre			8R-40	170 hp	5.95	0.074	1.00	May	0.84	1.28	0.79	1.91	0.148
1.13													
Cotton Seed Bt RR			lb		10.00								
	10.0000	1.00											
Cot Tech Fee Bt RR			acre		41.00								
	1.0000	41.00											
Temik 15G			lb		11.17								
	3.5000	3.19											
Terraclor 2EC			pt		1.09								
	0.5000	2.18											
Ridomil PC 11G			lb		0.27								
	0.1600	1.70											
Prowl 3.3 EC			pt		6.32		1.00	May					
	2.0000	3.16											
Ammo 2.5 EC			oz		2.18								
	1.2800	1.70											
Amm Nitrate (34% N)			cwt		18.30								
	2.0000	9.15											
Eradication Zone 3			acre		24.00		1.00	May					
	1.0000	24.00											
Hi-Clear Sprayer			60'		1.84	0.033	1.00	May			0.58	0.98	0.033
0.27													
Roundup Ultra			4SL pt		11.36								
	2.0000	5.68											
Spray (Hooded)			8-Row	150 hp	4.78	0.100	1.00	Jun	1.03	1.62	0.32	0.63	0.150
1.18													
Roundup Ultra			4SL pt		8.52								
	1.5000	5.68											
Spray (Hooded)			8-Row	150 hp	4.78	0.100	1.00	Jun	1.03	1.62	0.32	0.63	0.150
1.18													
Gramoxone Extra			pt		6.62								
	1.5000	4.41											
Bladex 4L			qt		2.73								
	0.4000	6.83											
Caparol 4L			pt		1.77								
	0.5000	3.54											
MSMA 6.6			pt		2.15								
	1.0000	2.15											
Fert Appl (Liquid)			8R-40	170 hp	4.34	0.074	1.00	Jun	0.84	1.28	0.34	1.00	0.111
0.87													
N-Sol (Liquid 32% N)			gal		6.77								
	12.0000	0.56											
Sulfur			lb		6.00								
	15.0000	0.40											
Spray (Layby)			8-Row	150 hp	2.76	0.067	1.00	Jun	0.69	1.08	0.06	0.14	0.101
0.79													
Bladex 4L			qt		5.46								
	0.8000	6.83											

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Hi-Clear Sprayer	60'			0.033	1.00	Jul			0.58	0.98	0.033
0.27			1.84								
Pix											
8.0000	0.76	oz	6.08	6.08							
Boron (Solubor)		lb									
0.5000	0.60		0.30	0.30							
Hi-Clear Sprayer	60'			0.033	1.00	Jul			0.58	0.98	0.033
0.27			1.84								
Pix											
8.0000	0.76	oz	6.08	6.08							
Boron (Solubor)		lb									
0.5000	0.60		0.30	0.30							
Hi-Clear Sprayer	60'			0.033	1.00	Sep			0.58	0.98	0.033
0.27			1.84								
Dropp 50 WP		lb									
0.1243	54.87		6.82	6.82							
Def 6		pt									
1.0000	5.28		5.28	5.28							
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								
Cotton Picker-1st-BB	4-Row			0.181	1.00	Oct			14.68	26.90	0.362
3.01			44.59								
Haul Cotton		lb			1.00	Oct					
755.0000	0.02		15.10	15.10							
Gin		lb			1.00	Oct					
755.0000	0.08		60.40	60.40							

TOTALS							9.93	15.63	22.27	44.55	2.022
16.15	304.12		412.65								
INTEREST ON OPERATING CAPITAL			16.23								
UNALLOCATED LABOR			0.00								
TOTAL SPECIFIED COST			428.88								

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, No-Till Cotton, Conventional Variety,

12-row, 30-inch, Solid, North Delta, Mississippi, 1999.

LABOR OPERATION/ -----	OPERATING INPUT		UNIT	TRACTOR SIZE	TRACTOR TOTAL COST	PERF RATE	TIMES OVER MTH	TRACTOR COST		EQUIP COST		ALLOC HOURS	
	AMOUNT	PRICE						DIRECT	FIXED	DIRECT	FIXED		
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									
Paratill & Bed		4R-40		210 hp		0.156	1.00	Nov	2.00	3.32	0.50	1.05	0.156
1.30				8.17									
Hi-Clear Sprayer		60'				0.033	1.00	May			0.58	0.98	0.033
0.27				1.84									
Roundup D-PAK		oz											
18.0000	0.47		8.46	8.46									
Disk & Incorporate		32'		210 hp		0.061	1.00	May	0.78	1.30	0.71	1.41	0.092
0.72				4.92									
Trifluralin 4EC		pt											
1.5000	2.48		3.72	3.72									
Anhy Ammonia (82% N)		cwt											
1.2500	11.15		13.94	13.94									
Roller		32'		170 hp		0.072	1.00	May	0.82	1.25	0.03	0.19	0.072
0.60				2.89									
No-Till Plant & Pre		10R-30		210 hp		0.098	1.00	May	1.26	2.09	1.65	4.01	0.196
1.49				10.49									
Cotton Seed		lb											
9.5000	0.94		8.93	8.93									
Assure II		oz											
7.5000	0.89		6.68	6.68									
Vitavax M		oz											
10.0000	0.13		1.30	1.30									
Apron XL		oz											
0.5000	9.04		4.52	4.52									
Meturon		pt											
1.5000	6.38		9.57	9.57									
Staple		oz						1.00					May
0.5000	20.85		10.43	10.43									
Eradication Zone 1		acre						1.00					May
1.0000	22.00		22.00	22.00									
Hi-Clear Sprayer		60'				0.033	1.00	May			0.58	0.98	0.033
0.27				1.84									
Staple		oz											
0.6000	20.85		12.51	12.51									
Hi-Clear Sprayer		60'				0.033	1.00	Jun			0.58	0.98	0.033
0.27				1.84									
Staple		oz											
0.6000	20.85		12.51	12.51									
Cultivate (Early)		10R-30		190 hp		0.101	1.00	Jun	1.28	1.94	0.38	0.80	0.101
0.84				5.23									
Bladex 4L		qt											
1.2000	6.83		8.20	8.20									
MSMA 6.6		pt											
2.4000	2.15		5.16	5.16									
App Insect - Ground		acre						1.00					Jun
1.0000	3.30		3.30	3.30									
Methyl 4EC		pt											
0.6700	3.50		2.35	2.35									
Hi-Clear Sprayer		60'				0.033	1.00	Jun			0.58	0.98	0.033
0.27				1.84									

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Pix			oz																											
	16.0000	0.76	12.16	12.16																										
App Insect - Ground		acre				1.00	Jul																							
	1.0000	3.30	3.30	3.30																										
Orthene 90S			lb																											
	0.2900	9.41	2.73	2.73																										
App Insect - Ground		acre				1.00	Jul																							
	1.0000	3.30	3.30	3.30																										
Baythroid 2			oz																											
	2.0000	3.14	6.28	6.28																										
Hi-Clear Sprayer		60'			0.033	1.00	Sep			0.58	0.98	0.033																		
0.27				1.84																										
Def 6			pt																											
	1.0000	5.28	5.28	5.28																										
Prep			pt																											
	1.0000	6.46	6.46	6.46																										
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																										
Cotton Picker-1st-BB 4-Row					0.181	1.00	Sep			14.68	26.90	0.362																		
3.01				44.59																										
Haul Cotton			lb			1.00	Sep																							
	675.0000	0.02	13.50	13.50																										
Gin			lb			1.00	Sep																							
	675.0000	0.08	54.00	54.00																										

TOTALS								11.63	18.64	23.14	46.71	1.946																		
15.68			240.57	356.37																										
INTEREST ON OPERATING CAPITAL																														
				13.77																										
UNALLOCATED LABOR																														
				0.00																										
TOTAL SPECIFIED COST				370.14																										

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, No-Till Cotton, Bt RR Variety, 8-row,

Solid, North Delta, Mississippi, 1999.

LABOR OPERATION/ -----	OPERATING INPUT		UNIT	TRACTOR SIZE	TRACTOR TOTAL COST	PERF RATE	TIMES OVER MTH	TRACTOR COST		EQUIP COST		ALLOC HOURS	
	COST	AMOUNT						PRICE	COST	DIRECT	FIXED		DIRECT
dollars			-----dollars-----			-----dollars-----							
Stalk Shredder			12'	150 hp	6.16	0.142	1.00	Nov	1.47	2.30	0.24	0.97	0.142
1.18													
Soil Test			acre		2.00		1.00	Dec					
	1.0000	2.00	2.00										
Spin Spreader			4 ton	150 hp	6.19	0.100	1.00	Jan	1.03	1.62	0.71	1.31	0.200
1.52													
Potash (60% K2O)			cwt		7.52								
	0.9000	8.35	7.52										
Hi-Clear Sprayer			60'		1.84	0.033	1.00	Mar			0.58	0.98	0.033
0.27													
Roundup Ultra			4SL pt		11.36								
	2.0000	5.68	11.36										
No-Till Plant			8R-40	170 hp	7.79	0.088	1.00	Apr	1.00	1.52	1.14	2.78	0.176
1.34													
Cotton Seed Bt - RR			lb		11.00								
	11.0000	1.00	11.00										
Cot Tech Fee Bt RR			acre		41.00								
	1.0000	41.00	41.00										
Roundup Ultra			4SL pt		8.52								
	1.5000	5.68	8.52										
Temik 15G			lb		11.17								
	3.5000	3.19	11.17										
Ridomil PC 11G			lb		17.00								
	10.0000	1.70	17.00										
Eradication Zone 1			acre		22.00		1.00	Apr					
	1.0000	22.00	22.00										
Fert Appl (Liquid)			8R-40	170 hp	4.34	0.074	1.00	Apr	0.84	1.28	0.34	1.00	0.111
0.87													
Fert 28-0-04			lb		44.00								
	200.0000	0.22	44.00										
Hi-Clear Sprayer			60'		1.84	0.033	1.00	May			0.58	0.98	0.033
0.27													
Bidrin 8L			oz		1.77								
	2.5600	0.69	1.77										
Hi-Clear Sprayer			60'		1.84	0.033	1.00	May			0.58	0.98	0.033
0.27													
Roundup Ultra			4SL pt		11.36								
	2.0000	5.68	11.36										
Hi-Clear Sprayer			60'		1.84	0.033	1.00	May			0.58	0.98	0.033
0.27													
Orthene 90S			lb		3.11								
	0.3300	9.41	3.11										
Spray (Hooded)			8-Row	150 hp	4.78	0.100	1.00	May	1.03	1.62	0.32	0.63	0.150
1.18													
Roundup Ultra			4SL pt		11.36								
	2.0000	5.68	11.36										
Hi-Clear Sprayer			60'		1.84	0.033	1.00	Jun			0.58	0.98	0.033
0.27													
Methyl 4EC			pt		4.66								
	1.3300	3.50	4.66										
Orthene 90S			lb		3.11								
	0.3300	9.41	3.11										
Spray (Hooded)			8-Row	150 hp	4.78	0.100	1.00	Jun	1.03	1.62	0.32	0.63	0.150
1.18													
Roundup Ultra			4SL pt		8.52								
	1.5000	5.68	8.52										
App by Air (2 gal)			appl		2.20		1.00	Jun					
	1.0000	2.20	2.20										
Orthene 90S			lb		4.71								
	0.5000	9.41	4.71										
Methyl 4EC			pt		2.80								
	0.8000	3.50	2.80										
Pix			oz		4.56								
	6.0000	0.76	4.56										
App by Air (3 gal)			appl		2.60		1.00	Jun					
	1.0000	2.60	2.60										

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Bidrin 8L	2.5600	0.69	oz	1.77	1.77										
Karate	0.3800	1.88	oz	0.71	0.71										
Fert Appl (Liquid)			8R-40	170 hp	0.074	1.00	Jun	0.84	1.28	0.34	1.00	0.111			
0.87															
Insol			gal												
15.0000	0.75			11.25	11.25										
App by Air (3 gal)			appl			1.00	Jun								
1.0000	2.60			2.60	2.60										
Bidrin 8L	2.5600	0.69	oz	1.77	1.77										
Pix	4.0000	0.76	oz	3.04	3.04										
Spray (Layby)			8-Row	150 hp	0.067	1.00	Jun	0.69	1.08	0.06	0.14	0.101			
0.79				2.76											
Bladex 4L	0.8000	6.83	qt	5.46	5.46										
MSMA6 + Surfactant	0.8000	1.97	pt	1.58	1.58										
App by Air (3 gal)			appl			1.00	Jul								
1.0000	2.60			2.60	2.60										
Orthene 90S	0.5000	9.41	lb	4.71	4.71										
Methyl 4EC	0.6700	3.50	pt	2.35	2.35										
Pix	10.0000	0.76	oz	7.60	7.60										
App by Air (5 gal)			appl			1.00	Sep								
1.0000	3.25			3.25	3.25										
Dropp 50 WP	0.1260	54.87	lb	6.91	6.91										
Def 6	1.3300	5.28	pt	7.02	7.02										
App by Air (5 gal)			appl			1.00	Sep								
1.0000	3.25			3.25	3.25										
Solium Chlorate 6L	0.5000	4.29	gal	2.15	2.15										
Starfire	0.2500	4.15	pt	1.04	1.04										
Boll Buggy	1.83		4 bale	130 hp	0.220	1.00	Sep	2.01	3.22	0.95	3.01	0.220			
Module Builder	3.35		32'	130 hp	0.220	1.00	Sep	2.01	3.22	1.09	3.46	0.440			
Cotton Picker-1st-BB	3.01		4-Row	13.13	0.181	1.00	Sep			14.68	26.90	0.362			
Haul Cotton	1125.0000	0.02	lb	22.50	22.50		1.00	Oct							
Gin	1125.0000	0.08	lb	90.00	90.00		1.00	Oct							

TOTALS								11.96	18.77	23.11	46.75	2.328			
18.48	417.84			536.90											
INTEREST ON OPERATING CAPITAL				23.38											
UNALLOCATED LABOR				0.00											
TOTAL SPECIFIED COST				560.28											

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, No-Till Cotton, Bt Variety, 10-row,

30-inch, Solid, Central Delta, Mississippi, 1999.

LABOR OPERATION/ -----	OPERATING INPUT		UNIT	TRACTOR SIZE	TRACTOR TOTAL COST	PERF RATE	TIMES OVER	MTH	TRACTOR COST		EQUIP COST		ALLOC HOURS
	COST	AMOUNT							PRICE	COST	DIRECT	FIXED	
dollars	-----dollars-----								-----dollars-----				
Cultipacker		20'		150 hp	0.072	1.00	Feb	0.74	1.17	0.05	0.26	0.072	
0.60				2.81									
Hi-Clear Sprayer		60'			0.033	0.50	Mar			0.29	0.49	0.017	
0.14				0.92									
Roundup Ultra 4SL	1.0000	5.68	pt	5.68									
App by Air (5 gal)	0.5000	3.25	appl	1.63		0.50	Mar						
0.50				1.63									
Roundup Ultra 4SL	1.0000	5.68	pt	5.68									
Hi-Clear Sprayer		60'			0.033	1.00	May			0.58	0.98	0.033	
0.27				1.84									
Gramoxone Extra	1.0000	4.41	pt	4.41									
N-Sol (Liquid 32% N)	10.0000	0.56	gal	5.64									
0.56				5.64									
Plant		10R-30		190 hp	0.075	1.00	May	0.95	1.44	0.77	1.88	0.150	
1.14				6.18									
Bt Cotton Seed	10.0000	0.99	lb	9.90									
0.99				9.90									
Cot Tech Fee 33Bt	1.0000	30.20	acre	30.20									
0.99				30.20									
Dual 8E	0.4500	7.88	pt	3.55									
0.45				3.55									
Cotoran 4L	1.0000	4.19	pt	4.19									
0.45				4.19									
Gramoxone Extra	1.0000	4.41	pt	4.41									
0.45				4.41									
Cypro	1.0000	26.30	gal	26.30		1.00	May						
0.64				26.30									
Scout X-TRA	0.6400	1.97	oz	1.26									
0.64				1.26									
Eradication Zone 2	1.0000	22.00	acre	22.00		1.00	May						
0.64				22.00									
App Insect - Ground	1.0000	3.30	acre	3.30		1.00	May						
0.64				3.30									
Bidrin 8L	3.6600	0.69	oz	2.53									
0.64				2.53									
App Insect - Ground	1.0000	3.30	acre	3.30		1.00	May						
0.64				3.30									
Bidrin 8L	3.6600	0.69	oz	2.53									
0.64				2.53									
App Insect - Ground	1.0000	3.30	acre	3.30		1.00	Jun						
0.64				3.30									
Orthene 90S	0.5000	9.41	lb	4.71									
0.64				4.71									
Spray (Hooded)		8-Row		150 hp	0.100	1.00	Jun	1.03	1.62	0.32	0.63	0.150	
1.18				4.78									
Bladex 4L	0.6700	6.83	qt	4.58									
0.67				4.58									
MSMA 6.6	0.8000	2.15	pt	1.72									
0.67				1.72									
Roundup Ultra 4SL	1.3300	5.68	pt	7.55									
0.67				7.55									
Bladex 4L	0.5000	6.83	qt	3.42									
0.67				3.42									
Spray (Spot)		60'		170 hp	0.027	1.00	Jun	0.31	0.47	0.08	0.12	0.041	
0.32				1.29									
Select 2EC	8.0000	1.32	oz	10.56									
0.32				10.56									
Fert Appl (Liquid)		10R-30		190 hp	0.079	1.00	Jun	1.00	1.52	0.38	1.10	0.119	
0.93				4.92									
Fert 28-0-0-5	2.7500	12.65	oz	34.79									
0.93				34.79									
Spray (Spot)		60'		170 hp	0.027	1.00	Jun	0.31	0.47	0.08	0.12	0.041	
0.32				1.29									

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Select 2EC			oz											
8.0000	1.32	10.56	10.56											
Spray (Hooded)		8-Row	150 hp	0.100	1.00	Jun	1.03	1.62	0.32	0.63	0.150			
1.18			4.78											
Staple			oz											
1.2000	20.85	25.02	25.02											
App Insect - Ground		acre			1.00	Jun								
1.0000	3.30	3.30	3.30											
Provado 1.6F			oz											
2.0000	3.35	6.70	6.70											
Decis 1.5EC			oz											
1.8000	3.56	6.41	6.41											
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											
Decis 1.5EC			oz											
1.8000	3.56	6.41	6.41											
App Insect - Ground		acre			1.00	Jun								
1.0000	3.30	3.30	3.30											
Vydate C-LV			oz											
8.5000	0.47	4.00	4.00											
App by Air (3 gal)		appl			1.00	Aug								
1.0000	2.60	2.60	2.60											
Larvin 3.2			oz											
32.0000	0.43	13.76	13.76											
Spray Hi-Boy			acre		1.00	Aug								
1.0000	2.50	2.50	2.50											
Dropp 50 WP			lb											
0.1240	54.87	6.80	6.80											
CottonQuik			pt											
0.5000	3.74	1.87	1.87											
Boll Buggy			4 bale	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											
Cotton Picker-1st-BB		4-Row		0.181	1.00	Sep			14.68	26.90	0.362			
3.01			44.59											
Haul Cotton			lb		1.00	Sep								
720.0000	0.02	14.40	14.40											
Gin			lb		1.00	Sep								
720.0000	0.08	57.60	57.60											

TOTALS							9.39	14.74	19.58	39.59	1.793			
14.25		379.83	477.38											
INTEREST ON OPERATING CAPITAL			21.56											
UNALLOCATED LABOR			0.00											
TOTAL SPECIFIED COST			<u>498.94</u>											

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, No-Till Cotton, Bt Variety, 6-row, 40-inch, Solid, Central Delta, Mississippi, 1999.

LABOR OPERATION/ ----- OPERATING COST	OPERATING INPUT		TRACTOR SIZE ----- UNIT SIZE COST	PERF RATE	TIMES OVER	MTH	TRACTOR COST		EQUIP COST		ALLOC HOURS
	AMOUNT	PRICE					DIRECT	FIXED	DIRECT	FIXED	
Stalk Shredder	12'		150 hp	0.142	1.00	Oct	1.47	2.30	0.24	0.97	0.142
1.18			6.16								
Spray (Broadcast)	42'		170 hp	0.039	1.00	Feb	0.44	0.67	0.10	0.14	0.059
0.46			1.82								
Roundup Ultra	4SL	pt									
1.2500	5.68	7.10	7.10								
2,4-D Ester		pt									
1.0000	1.75	1.75	1.75								
Spin Spreader	4 ton		150 hp	0.100	1.00	Mar	1.03	1.62	0.71	1.31	0.200
1.52			6.19								
Potash (60% K2O)		cwt									
2.5000	8.35	20.88	20.88								
Phosphorus(46% P2O5)		cwt									
0.3500	12.47	4.36	4.36								
App Insect - Ground	acre				1.00	Apr					
1.0000	3.30	3.30	3.30								
Dimethoate 4E		pt									
0.4000	3.96	1.58	1.58								
No-Till Plant & Pre	6R-40		150 hp	0.123	1.00	Apr	1.27	1.99	1.31	3.18	0.246
1.87			9.62								
Bt Cotton Seed		lb									
12.0000	0.99	11.88	11.88								
Bt Cotton Fee		acre									
1.0000	32.00	32.00	32.00								
Dual II		pt									
0.4000	8.16	3.26	3.26								
Cotoran 4L		pt									
1.0000	4.19	4.19	4.19								
Zorial Rapid 80		lb									
0.2500	13.69	3.42	3.42								
Temik 15G		lb			1.00	Apr					
3.5000	3.19	11.17	11.17								
Terraclor Super X EC		pt									
3.0000	3.37	10.11	10.11								
PGR IV		oz									
1.0000	1.50	1.50	1.50								
Spray (Broadcast)	42'		170 hp	0.039	1.00	Apr	0.44	0.67	0.10	0.14	0.059
0.46			1.82								
Roundup Ultra	4SL	pt									
2.0000	5.68	11.36	11.36								
Eradication Zone 2	acre				1.00	Apr					
1.0000	22.00	22.00	22.00								
App Insect - Ground	acre				1.00	Apr					
1.0000	3.30	3.30	3.30								
Ammo 2.5 EC		oz									
3.2000	1.70	5.44	5.44								
Spray (Broadcast)	42'		170 hp	0.039	1.00	May	0.44	0.67	0.10	0.14	0.059
0.46			1.82								
PGR IV		oz									
2.0000	1.50	3.00	3.00								

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Spray (Broadcast)	42'	170 hp	0.039	1.00	May	0.44	0.67	0.10	0.14	0.059
0.46		1.82								
Staple	oz									
1.2000	20.85	25.02	25.02							
Spray (Hooded)	6-Row	130 hp	0.133	1.00	May	1.22	1.95	0.34	0.69	0.200
1.56		5.76								
Roundup Ultra	4SL	pt								
1.2500	5.68	7.10	7.10							
Fert Appl (Liquid)	6R-30	150 hp	0.131	1.00	May	1.35	2.12	0.59	1.73	0.197
1.54		7.33								
N-Sol (Liquid 32% N)	gal									
17.0000	0.56	9.59	9.59							
Spray (Hooded)	6-Row	130 hp	0.133	1.00	Jun	1.22	1.95	0.34	0.69	0.200
1.56		5.76								
MSMA 6.6	pt									
0.5700	2.15	1.23	1.23							
Caparol 4L	pt									
0.5700	3.54	2.02	2.02							
App Insect - Ground	acre			1.00	Jun					
1.0000	3.30	3.30	3.30							
Methyl 4EC	pt									
0.3300	3.50	1.16	1.16							
App Insect - Ground	acre			1.00	Jun					
1.0000	3.30	3.30	3.30							
Methyl 4EC	pt									
0.3300	3.50	1.16	1.16							
App Mixture - Air	acre			1.00	Jun					
1.0000	3.25	3.25	3.25							
Methyl 4EC	pt									
0.6700	3.50	2.35	2.35							
Pix	oz									
10.6700	0.76	8.11	8.11							
Spray (Hooded)	6-Row	130 hp	0.133	1.00	Jul	1.22	1.95	0.34	0.69	0.200
1.56		5.76								
Direx 4L	pt									
0.8000	2.25	1.80	1.80							
Bladex 4L	qt									
0.4000	6.83	2.73	2.73							
Roundup Ultra	4SL	pt								
1.4300	5.68	8.12	8.12							
MSMA 6.6	pt									
0.8000	2.15	1.72	1.72							
Bladex 4L	qt									
0.5000	6.83	3.42	3.42							
Fert Appl (Liquid)	6R-30	150 hp	0.131	1.00	Jul	1.35	2.12	0.59	1.73	0.197
1.54		7.33								
N-Sol (Liquid 32% N)	gal									
17.0000	0.56	9.59	9.59							
App Insect - Ground	acre			1.00	Jul					
1.0000	3.30	3.30	3.30							
Vydate C-LV	oz									
10.6700	0.47	5.01	5.01							
App Insect - Ground	acre			0.14	Jul					
0.1400	3.30	0.46	0.46							
Ammo 2.5 EC	oz									
0.5124	1.70	0.87	0.87							
Vydate C-LV	oz									
1.4938	0.47	0.70	0.70							
PGR IV	oz									
0.5600	1.50	0.84	0.84							
App Insect - Air	acre			0.20	Jul					
0.2000	3.25	0.65	0.65							
Vydate C-LV	oz									
2.1340	0.47	1.00	1.00							
PGR IV	oz									
0.0500	1.50	0.08	0.08							
App Insect - Air	acre			0.60	Jun					
0.0600	3.25	0.20	0.20							

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Appendix Table 9.A Estimated resource use and costs for field operations, per acre, Grower 09, No-Till Cotton, Bt Variety, 12-Row,

40-inch, Solid, Central Delta, Mississippi, 1999.

LABOR OPERATION/ -----	OPERATING INPUT		TRACTOR SIZE/ -----	TRACTOR TOTAL SIZE COST	PERF RATE	TIMES OVER MTH	TRACTOR COST		EQUIP COST		ALLOC ----- HOURS
	OPERATING COST	INPUT AMOUNT					UNIT PRICE	UNIT COST	DIRECT	FIXED	
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								
App by Air (3 gal)	appl				1.00	Feb					
1.0000	2.60	2.60	2.60								
Roundup Ultra 4SL	pt										
1.6000	5.68	9.09	9.09								
Spray (Broadcast)		60'	170 hp	0.027	1.00	Apr	0.31	0.47	0.08	0.12	0.041
0.32			1.29								
Roundup Ultra 4SL	pt										
1.0000	5.68	5.68	5.68								
Plant & Pre		10R-40	190 hp	0.059	1.00	Apr	0.75	1.13	0.73	1.77	0.118
0.90			5.27								
Bt Cotton Seed		lb									
10.0000	0.99	9.90	9.90								
Bt Cotton Fee		acre									
1.0000	32.00	32.00	32.00								
Dual 8E		pt									
0.4000	7.88	3.15	3.15								
Cotoran 4L		pt									
1.0000	4.19	4.19	4.19								
Zorial Rapid 80		lb									
0.2500	13.69	3.42	3.42								
Temik 15G		lb			1.00	Apr					
3.5000	3.19	11.17	11.17								
Eradication Zone 2		acre			1.00	Apr					
1.0000	22.00	22.00	22.00								
Fert Appl (Liquid)		10R-40	190 hp	0.059	1.00	Apr	0.75	1.13	0.28	0.82	0.089
0.69			3.67								
N-Sol (Liquid 32% N)	gal										
11.3000	0.56	6.37	6.37								
Fert Appl (Liquid)		10R-40	190 hp	0.059	1.00	May	0.75	1.13	0.28	0.82	0.089
0.69			3.67								
N-Sol (Liquid 32% N)	gal										
20.0000	0.56	11.28	11.28								
Spray (Hooded)		8-Row	150 hp	0.100	1.00	May	1.03	1.62	0.32	0.63	0.150
1.18			4.78								
Staple		oz									
0.2500	20.85	5.21	5.21								
Spray (Hooded)		8-Row	150 hp	0.100	1.00	Jun	1.03	1.62	0.32	0.63	0.150
1.18			4.78								
Pix		oz									
5.3300	0.76	4.05	4.05								
Spray (Hooded)		8-Row	150 hp	0.100	1.00	Jun	1.03	1.62	0.32	0.63	0.150
1.18			4.78								
Bladex 4L		qt									
0.1250	6.83	0.85	0.85								
Direx 4L		pt									
0.1250	2.25	0.28	0.28								
Gramoxone Extra		pt									

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1.5000	4.41	6.62	6.62									
App by Air (5 gal)	appl			1.00	Sep							
1.0000	3.25	3.25	3.25									
Roundup Ultra 4SL	pt											
2.0000	5.68	11.36	11.36									
Def 6	pt											
1.5000	5.28	7.92	7.92									
App by Air (5 gal)	appl			1.00	Sep							
1.0000	3.25	3.25	3.25									
Solium Chlorate 6L	gal											
0.7500	4.29	3.22	3.22									
Def 6	pt											
1.5000	5.28	7.92	7.92									
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										
Cotton Picker-1st-BB 4-Row			0.181	1.00	Oct			14.68	26.90	0.362		
3.01		44.59										
Haul Cotton	lb			1.00	Oct							
711.0000	0.02	14.22	14.22									
Gin	lb			1.00	Oct							
711.0000	0.08	56.88	56.88									

TOTALS						11.13	17.46	19.29	39.76	1.950		
15.50		245.88	349.03									
INTEREST ON OPERATING CAPITAL			13.90									
UNALLOCATED LABOR			0.00									
TOTAL SPECIFIED COST			362.93									

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, No-Till Cotton, BXN Variety, 8-row, Narrow-Skip, Central Delta, Mississippi, 1999.

LABOR OPERATION/ ----- OPERATING COST	OPERATING INPUT		TRACTOR SIZE ----- UNIT SIZE COST	PERF RATE	TIMES OVER	MTH	TRACTOR COST		EQUIP COST		ALLOC HOURS
	AMOUNT	PRICE					DIRECT	FIXED	DIRECT	FIXED	
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								
Spray (Hooded)	8-Row		150 hp	0.100	1.00	Mar	1.03	1.62	0.32	0.63	0.150
1.18			4.78								
Roundup Ultra 4SL	pt										
2.0000	5.68		11.36								
Fert Appl (Liquid)	8R-40		170 hp	0.074	1.00	Apr	0.84	1.28	0.34	1.00	0.111
0.87			4.34								
N-Sol (Liquid 32% N)	gal										
12.6500	0.56		7.14								
Spray (Broadcast)	42'		170 hp	0.039	1.00	May	0.44	0.67	0.10	0.14	0.059
0.46			1.82								
Roundup Ultra 4SL	pt										
2.0000	5.68		11.36								
No-Till Plant	8R-40		170 hp	0.088	1.00	May	1.00	1.52	1.14	2.78	0.176
1.34			7.79								
Cotton Seed BXN	lb										
15.0000	0.95		14.25								
Cot Tech Fee BXN	acre										
1.0000	9.00		9.00								
Cotoran DF	lb										
1.6000	7.25		11.60								
Staple	oz										
0.6000	20.85		12.51								
Eradication Zone 2	acre				1.00	May					
1.0000	22.00		22.00								
App Insect - Ground	acre				1.00	May					
1.0000	3.30		3.30								
Orthene 90S	lb										
0.2500	9.41		2.35								
Spray (Broadcast)	42'		170 hp	0.039	1.00	May	0.44	0.67	0.10	0.14	0.059
0.46			1.82								
Buctril 4EC	pt										
1.0000	13.25		13.25								
Fert Appl (Liquid)	8R-40		170 hp	0.074	1.00	Jun	0.84	1.28	0.34	1.00	0.111
0.87			4.34								
N-Sol (Liquid 32% N)	gal										
33.0000	0.56		18.62								
Spray (Broadcast)	42'		170 hp	0.039	1.00	Jun	0.44	0.67	0.10	0.14	0.059
0.46			1.82								
Select 2EC	oz										
8.0000	1.32		10.56								
App Insect - Ground	acre				1.00	Jun					
1.0000	3.30		3.30								
Provado 1.6F	oz										
3.7500	3.35		12.56								
Spray (Broadcast)	42'		170 hp	0.039	1.00	Jun	0.44	0.67	0.10	0.14	0.059
0.46			1.82								
Buctril 4EC	pt										
1.0000	13.25		13.25								

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Spray (Hooded)	8-Row	150 hp	0.100	1.00	Jul	1.03	1.62	0.32	0.63	0.150
1.18		4.78								
Buctril 4EC	pt									
1.0000	13.25	13.25	13.25							
App Insect - Air	acre			1.00	Jun					
1.0000	3.25	3.25	3.25							
Orthene 90S	lb									
0.5000	9.41	4.71	4.71							
Hi-Clear Sprayer	40'			0.049	1.00	Sep		0.76	1.27	0.049
0.41			2.43							
Dropp 50 WP	lb									
0.1250	54.87	6.86	6.86							
App by Air (5 gal)	appl			1.00	Sep					
1.0000	3.25	3.25	3.25							
Sodium Chlorate 3L	gal									
0.3000	2.21	0.66	0.66							
Starfire	pt									
0.0500	4.15	0.21	0.21							
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								
Cotton Picker-1st-BB	4-Row		0.181	1.00	Sep			14.68	26.90	0.362
3.01		44.59								
Haul Cotton	lb			1.00	Sep					
625.0000	0.02	12.50	12.50							
Gin	lb			1.00	Sep					
625.0000	0.08	50.00	50.00							
-----						-----				
TOTALS						12.01	18.76	20.58	42.23	2.145
17.04	271.09	381.72								
INTEREST ON OPERATING CAPITAL		16.01								
UNALLOCATED LABOR		0.00								
TOTAL SPECIFIED COST		397.72								

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

APPENDIX B

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Appendix Table 1.B Summary of estimated costs and returns per acre,
 Grower 01, No-Till Cotton, Bt RR Variety, 8-row,
 38-inch, Solid, North Brown Loam, Mississippi, 1999.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.50	526.0000	263.00	_____
Cotton Seed	lb	0.05	815.0000	40.75	_____

TOTAL INCOME				303.75	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	7.25	1.0000	7.25	_____
HARVEST AIDS	acre	14.15	1.0000	14.15	_____
GIN/DRY	acre	42.08	1.0000	42.08	_____
FERTILIZERS	acre	32.64	1.0000	32.64	_____
HERBICIDES	acre	41.14	1.0000	41.14	_____
INSECTICIDES	acre	13.41	1.0000	13.41	_____
SEED/PLANTS	acre	9.50	1.0000	9.50	_____
TECHNOLOGY FEE	acre	65.00	1.0000	65.00	_____
CUSTOM HARVEST/HAUL	acre	10.52	1.0000	10.52	_____
OPERATOR LABOR	hour	8.31	1.1200	9.31	_____
HAND LABOR	hour	6.91	0.3425	2.37	_____
DIESEL FUEL	gal	0.65	6.3994	4.16	_____
REPAIR & MAINTENANCE	acre	22.87	1.0000	22.87	_____
INTEREST ON OP. CAP.	acre	13.91	1.0000	13.91	_____

TOTAL DIRECT EXPENSES				288.30	_____
RETURNS ABOVE DIRECT EXPENSES				15.45	_____

TOTAL FIXED EXPENSES				51.04	_____

TOTAL SPECIFIED EXPENSES				339.34	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-35.59	_____

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

Appendix Table 2.B Summary of estimated costs and returns per acre,
 Grower 02, No-Till Cotton, Bt Variety, 8-row,
 Solid (40-inch), Central Brown Loam, Mississippi, 1999.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.50	621.0000	310.50	_____
Cotton Seed	lb	0.05	963.0000	48.15	_____

TOTAL INCOME				358.65	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	7.65	1.0000	7.65	_____
HARVEST AIDS	acre	13.94	1.0000	13.94	_____
GIN/DRY	acre	49.68	1.0000	49.68	_____
FERTILIZERS	acre	45.57	1.0000	45.57	_____
HERBICIDES	acre	57.45	1.0000	57.45	_____
INSECTICIDES	acre	25.36	1.0000	25.36	_____
SEED/PLANTS	acre	10.89	1.0000	10.89	_____
TECHNOLOGY FEE	acre	56.00	1.0000	56.00	_____
CUSTOM HARVEST/HAUL	acre	12.42	1.0000	12.42	_____
OPERATOR LABOR	hour	8.31	1.2970	10.78	_____
HAND LABOR	hour	6.91	0.4760	3.29	_____
DIESEL FUEL	gal	0.65	8.4325	5.48	_____
REPAIR & MAINTENANCE	acre	23.62	1.0000	23.62	_____
INTEREST ON OP. CAP.	acre	15.34	1.0000	15.34	_____

TOTAL DIRECT EXPENSES				337.46	_____
RETURNS ABOVE DIRECT EXPENSES				21.19	_____
TOTAL FIXED EXPENSES				55.21	_____

TOTAL SPECIFIED EXPENSES				392.67	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-34.02	_____

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

Appendix Table 3.B Summary of estimated costs and returns per acre
 Grower 03, No-Till Cotton, Bt Variety, 8-row,
 (40-inch), Central Brown Loam, Mississippi, 1999.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.50	584.0000	292.00	_____
Cotton Seed	lb	0.05	905.0000	45.25	_____

TOTAL INCOME				337.25	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	5.45	1.0000	5.45	_____
HARVEST AIDS	acre	10.56	1.0000	10.56	_____
GIN/DRY	acre	46.72	1.0000	46.72	_____
FERTILIZERS	acre	50.48	1.0000	50.48	_____
FUNGICIDES	acre	10.20	1.0000	10.20	_____
HERBICIDES	acre	65.45	1.0000	65.45	_____
INSECTICIDES	acre	40.76	1.0000	40.76	_____
SEED/PLANTS	acre	11.88	1.0000	11.88	_____
TECHNOLOGY FEE	acre	56.00	1.0000	56.00	_____
GROWTH REGULATORS	acre	24.32	1.0000	24.32	_____
CUSTOM HARVEST/HAUL	acre	11.68	1.0000	11.68	_____
OPERATOR LABOR	hour	8.31	1.3650	11.34	_____
HAND LABOR	hour	6.91	0.4490	3.10	_____
DIESEL FUEL	gal	0.65	7.3916	4.80	_____
REPAIR & MAINTENANCE	acre	26.45	1.0000	26.45	_____
INTEREST ON OP. CAP.	acre	18.97	1.0000	18.97	_____

TOTAL DIRECT EXPENSES				398.17	_____
RETURNS ABOVE DIRECT EXPENSES				-60.92	_____
TOTAL FIXED EXPENSES				58.64	_____

TOTAL SPECIFIED EXPENSES				456.81	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-119.56	_____

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

Appendix Table 4.B Summary of estimated costs and returns per acre,
 Grower 04, No-Till Cotton, Bt RR Variety, 8-row,
 40-inch, Solid, South Brown Loam, Mississippi, 1999.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.50	755.0000	377.50	_____
Cotton Seed	lb	0.05	1170.0000	58.50	_____

TOTAL INCOME				436.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	4.00	1.0000	4.00	_____
HARVEST AIDS	acre	12.10	1.0000	12.10	_____
GIN/DRY	acre	60.40	1.0000	60.40	_____
FERTILIZERS	acre	35.27	1.0000	35.27	_____
FUNGICIDES	acre	1.36	1.0000	1.36	_____
HERBICIDES	acre	66.56	1.0000	66.56	_____
INSECTICIDES	acre	13.34	1.0000	13.34	_____
SEED/PLANTS	acre	10.00	1.0000	10.00	_____
TECHNOLOGY FEE	acre	65.00	1.0000	65.00	_____
GROWTH REGULATORS	acre	12.16	1.0000	12.16	_____
CUSTOM FERT/LIME	acre	8.82	1.0000	8.82	_____
CUSTOM HARVEST/HAUL	acre	15.10	1.0000	15.10	_____
OPERATOR LABOR	hour	8.31	1.5570	12.94	_____
HAND LABOR	hour	6.91	0.4645	3.21	_____
DIESEL FUEL	gal	0.65	9.4219	6.12	_____
REPAIR & MAINTENANCE	acre	26.08	1.0000	26.08	_____
INTEREST ON OP. CAP.	acre	16.23	1.0000	16.23	_____

TOTAL DIRECT EXPENSES				368.70	_____
RETURNS ABOVE DIRECT EXPENSES				67.30	_____
TOTAL FIXED EXPENSES				60.18	_____

TOTAL SPECIFIED EXPENSES				428.88	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				7.12	_____

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

Appendix Table 5.B Summary of estimated costs and returns per acre,
 Grower 05, No-Till Cotton, Conventional Variety,
 12-row, 30-inch, Solid, North Delta, Mississippi, 1999.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.50	675.0000	337.50	_____
Cotton Seed	lb	0.05	1046.0000	52.30	_____

TOTAL INCOME				389.80	_____
DIRECT EXPENSES					
HARVEST AIDS	acre	11.74	1.0000	11.74	_____
GIN/DRY	acre	54.00	1.0000	54.00	_____
FERTILIZERS	acre	13.94	1.0000	13.94	_____
FUNGICIDES	acre	5.82	1.0000	5.82	_____
HERBICIDES	acre	77.23	1.0000	77.23	_____
INSECTICIDES	acre	11.35	1.0000	11.35	_____
SEED/PLANTS	acre	8.93	1.0000	8.93	_____
TECHNOLOGY FEE	acre	22.00	1.0000	22.00	_____
GROWTH REGULATORS	acre	12.16	1.0000	12.16	_____
CUSTOM HARVEST/HAUL	acre	13.50	1.0000	13.50	_____
SPRAY APPP COSTS	acre	9.90	1.0000	9.90	_____
OPERATOR LABOR	hour	8.31	1.5970	13.27	_____
HAND LABOR	hour	6.91	0.3485	2.41	_____
DIESEL FUEL	gal	0.65	11.0220	7.16	_____
REPAIR & MAINTENANCE	acre	27.61	1.0000	27.61	_____
INTEREST ON OP. CAP.	acre	13.77	1.0000	13.77	_____

TOTAL DIRECT EXPENSES				304.79	_____
RETURNS ABOVE DIRECT EXPENSES				85.01	_____
TOTAL FIXED EXPENSES				65.35	_____

TOTAL SPECIFIED EXPENSES				370.14	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				19.66	_____

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

Appendix Table 6.B Summary of estimated costs and returns per acre,
 Grower 06, No-Till Cotton, Bt RR Variety, 8-row,
 Solid, North Delta, Mississippi, 1999.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.50	1125.0000	562.50	_____
Cotton Seed	lb	0.05	1744.0000	87.20	_____

TOTAL INCOME				649.70	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	16.50	1.0000	16.50	_____
HARVEST AIDS	acre	17.12	1.0000	17.12	_____
GIN/DRY	acre	90.00	1.0000	90.00	_____
FERTILIZERS	acre	62.77	1.0000	62.77	_____
FUNGICIDES	acre	17.00	1.0000	17.00	_____
HERBICIDES	acre	58.16	1.0000	58.16	_____
INSECTICIDES	acre	42.60	1.0000	42.60	_____
SEED/PLANTS	acre	11.00	1.0000	11.00	_____
TECHNOLOGY FEE	acre	63.00	1.0000	63.00	_____
GROWTH REGULATORS	acre	15.20	1.0000	15.20	_____
SERVICE FEE	acre	2.00	1.0000	2.00	_____
CUSTOM HARVEST/HAUL	acre	22.50	1.0000	22.50	_____
OPERATOR LABOR	hour	8.31	1.7120	14.23	_____
HAND LABOR	hour	6.91	0.6155	4.25	_____
DIESEL FUEL	gal	0.65	10.8980	7.08	_____
REPAIR & MAINTENANCE	acre	27.98	1.0000	27.98	_____
INTEREST ON OP. CAP.	acre	23.38	1.0000	23.38	_____

TOTAL DIRECT EXPENSES				494.77	_____
RETURNS ABOVE DIRECT EXPENSES				154.93	_____

TOTAL FIXED EXPENSES				65.51	_____

TOTAL SPECIFIED EXPENSES				560.28	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				89.42	_____

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

Appendix Table 7.B Summary of estimated costs and returns per acre,
 Grower 07, No-Till Cotton, Bt Variety, 10-row,
 30-inch, Solid, Central Delta, Mississippi 1999.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.50	722.0000	361.00	_____
Cotton Seed	lb	0.05	1119.0000	55.95	_____

TOTAL INCOME				416.95	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	6.73	1.0000	6.73	_____
HARVEST AIDS	acre	8.67	1.0000	8.67	_____
GIN/DRY	acre	57.60	1.0000	57.60	_____
FERTILIZERS	acre	40.43	1.0000	40.43	_____
HERBICIDES	acre	117.62	1.0000	117.62	_____
INSECTICIDES	acre	52.48	1.0000	52.48	_____
SEED/PLANTS	acre	9.90	1.0000	9.90	_____
TECHNOLOGY FEE	acre	52.20	1.0000	52.20	_____
CUSTOM HARVEST/HAUL	acre	14.40	1.0000	14.40	_____
SPRAY APP COSTS	acre	19.80	1.0000	19.80	_____
OPERATOR LABOR	hour	8.31	1.3315	11.06	_____
HAND LABOR	hour	6.91	0.4615	3.19	_____
DIESEL FUEL	gal	0.65	8.7508	5.69	_____
REPAIR & MAINTENANCE	acre	23.29	1.0000	23.29	_____
INTEREST ON OP. CAP.	acre	21.56	1.0000	21.56	_____

TOTAL DIRECT EXPENSES				444.62	_____
RETURNS ABOVE DIRECT EXPENSES				-27.67	_____
TOTAL FIXED EXPENSES				54.32	_____

TOTAL SPECIFIED EXPENSES				498.94	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-81.99	_____

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

Appendix Table 8.B Summary of estimated costs and returns per acre,
 Grower 08, No-Till Cotton, Bt Variety, 6-row
 40-inch, Solid, Central Delta, Mississippi, 1999.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.50	750.0000	375.00	_____
Cotton Seed	lb	0.05	1162.5000	58.13	_____

TOTAL INCOME				433.13	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	3.48	1.0000	3.48	_____
HARVEST AIDS	acre	11.86	1.0000	11.86	_____
GIN/DRY	acre	60.00	1.0000	60.00	_____
FERTILIZERS	acre	44.42	1.0000	44.42	_____
FUNGICIDES	acre	10.11	1.0000	10.11	_____
HERBICIDES	acre	84.24	1.0000	84.24	_____
INSECTICIDES	acre	32.27	1.0000	32.27	_____
SEED/PLANTS	acre	11.88	1.0000	11.88	_____
TECHNOLOGY FEE	acre	54.00	1.0000	54.00	_____
GROWTH REGULATORS	acre	13.52	1.0000	13.52	_____
CUSTOM HARVEST/HAUL	acre	15.00	1.0000	15.00	_____
SPRAY APP COSTS	acre	21.06	1.0000	21.06	_____
OPERATOR LABOR	hour	8.31	1.9840	16.49	_____
HAND LABOR	hour	6.91	0.8515	5.88	_____
DIESEL FUEL	gal	0.65	13.4488	8.74	_____
REPAIR & MAINTENANCE	acre	28.78	1.0000	28.78	_____
INTEREST ON OP. CAP.	acre	23.08	1.0000	23.08	_____

TOTAL DIRECT EXPENSES				444.81	_____
RETURNS ABOVE DIRECT EXPENSES				-11.69	_____
TOTAL FIXED EXPENSES				70.06	_____

TOTAL SPECIFIED EXPENSES				514.87	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-81.75	_____

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

Appendix Table 9.B Summary of estimated costs and returns per acre,
 Grower 09, No-Till Cotton, Bt Variety, 12-Row,
 40-inch, Solid, Central Delta, Mississippi, 1999.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.50	711.0000	355.50	_____
Cotton Seed	lb	0.05	1102.0000	55.10	_____

TOTAL INCOME				410.60	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	9.10	1.0000	9.10	_____
HARVEST AIDS	acre	19.06	1.0000	19.06	_____
GIN/DRY	acre	56.88	1.0000	56.88	_____
FERTILIZERS	acre	17.66	1.0000	17.66	_____
HERBICIDES	acre	49.86	1.0000	49.86	_____
INSECTICIDES	acre	11.17	1.0000	11.17	_____
SEED/PLANTS	acre	9.90	1.0000	9.90	_____
TECHNOLOGY FEE	acre	54.00	1.0000	54.00	_____
GROWTH REGULATORS	acre	4.05	1.0000	4.05	_____
CUSTOM HARVEST/HAUL	acre	14.22	1.0000	14.22	_____
OPERATOR LABOR	hour	8.31	1.4480	12.03	_____
HAND LABOR	hour	6.91	0.5015	3.47	_____
DIESEL FUEL	gal	0.65	9.9530	6.47	_____
REPAIR & MAINTENANCE	acre	23.95	1.0000	23.95	_____
INTEREST ON OP. CAP.	acre	13.90	1.0000	13.90	_____

TOTAL DIRECT EXPENSES				305.71	_____
RETURNS ABOVE DIRECT EXPENSES				104.89	_____

TOTAL FIXED EXPENSES				57.22	_____

TOTAL SPECIFIED EXPENSES				362.93	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				47.67	_____

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

Appendix Table 10.B Summary of estimated costs and returns per acre,
 Grower 10, No-Till Cotton, BXN Variety, 8-row,
 Narrow-Skip, Central Delta, Mississippi, 1999.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.50	625.0000	312.50	_____
Cotton Seed	lb	0.05	968.7500	48.44	_____

TOTAL INCOME				360.94	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	3.25	1.0000	3.25	_____
HARVEST AIDS	acre	7.73	1.0000	7.73	_____
GIN/DRY	acre	50.00	1.0000	50.00	_____
FERTILIZERS	acre	25.75	1.0000	25.75	_____
HERBICIDES	acre	97.14	1.0000	97.14	_____
INSECTICIDES	acre	19.62	1.0000	19.62	_____
SEED/PLANTS	acre	14.25	1.0000	14.25	_____
TECHNOLOGY FEE	acre	31.00	1.0000	31.00	_____
CUSTOM HARVEST/HAUL	acre	12.50	1.0000	12.50	_____
SPRAY APP COSTS	acre	9.85	1.0000	9.85	_____
OPERATOR LABOR	hour	8.31	1.5850	13.17	_____
HAND LABOR	hour	6.91	0.5600	3.87	_____
DIESEL FUEL	gal	0.65	10.7416	6.98	_____
REPAIR & MAINTENANCE	acre	25.61	1.0000	25.61	_____
INTEREST ON OP. CAP.	acre	16.01	1.0000	16.01	_____

TOTAL DIRECT EXPENSES				336.73	_____
RETURNS ABOVE DIRECT EXPENSES				24.21	_____

TOTAL FIXED EXPENSES				61.00	_____

TOTAL SPECIFIED EXPENSES				397.72	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-36.79	_____

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

APPENDIX C

Appendix Table 1.C Estimated costs and returns per acre, Grower 01,
 No-Till Cotton, Bt RR Variety, 8-row, 38-inch,
 Solid, North Brown Loam, Mississippi, 1999.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.50	526.0000	263.00	_____
Cotton Seed	lb	0.05	815.0000	40.75	_____

TOTAL INCOME				303.75	_____
DIRECT EXPENSES					
CUSTOM SPRAY					
Flotation Tractor	acre	4.00	1.0000	4.00	_____
App by Air (5 gal)	appl	3.25	1.0000	3.25	_____
HARVEST AIDS					
Def 6	pt	5.28	1.3700	7.23	_____
Dropp 50 WP	lb	54.87	0.1260	6.91	_____
GIN/DRY					
Gin	lb	0.08	526.0000	42.08	_____
FERTILIZERS					
Fert 13-13-13	cwt	10.53	3.1000	32.64	_____
HERBICIDES					
Roundup Ultra 4SL	pt	5.68	5.0000	28.40	_____
Gramoxone Extra	pt	4.41	1.0000	4.41	_____
Caparol + MSMA	pt	2.94	0.5000	1.47	_____
Karmex DF	lb	4.57	1.5000	6.86	_____
INSECTICIDES					
Bidrin 8L	oz	0.69	9.2000	6.35	_____
Orthene 90S	lb	9.41	0.7500	7.06	_____
SEED/PLANTS					
Cotton Seed Bt RR	lb	1.00	9.5000	9.50	_____
TECHNOLOGY FEE					
Cot Tech Fee Bt RR	acre	41.00	1.0000	41.00	_____
Eradication Zone 3	acre	24.00	1.0000	24.00	_____
CUSTOM HARVEST/HAUL					
Haul Cotton	lb	0.02	526.0000	10.52	_____
OPERATOR LABOR					
Tractors	hour	8.31	0.5930	4.93	_____
Self-Propelled Eq.	hour	8.31	0.5270	4.38	_____
HAND LABOR					
Implements	hour	6.91	0.3425	2.37	_____
DIESEL FUEL					
Tractors	gal	0.65	4.4404	2.89	_____
Self-Propelled Eq.	gal	0.65	1.9590	1.27	_____
REPAIR & MAINTENANCE					
Implements	acre	3.49	1.0000	3.49	_____
Tractors	acre	3.07	1.0000	3.07	_____
Self-Propelled Eq.	acre	16.31	1.0000	16.31	_____
INTEREST ON OP. CAP.	acre	13.91	1.0000	13.91	_____
TOTAL DIRECT EXPENSES				288.30	_____
RETURNS ABOVE DIRECT EXPENSES				15.45	_____
FIXED EXPENSES					
Implements	acre	9.85	1.0000	9.85	_____
Tractors	acre	9.38	1.0000	9.38	_____
Self-Propelled Eq.	acre	31.81	1.0000	31.81	_____
TOTAL FIXED EXPENSES				51.04	_____
TOTAL SPECIFIED EXPENSES				339.34	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-35.59	_____

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

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Appendix Table 2.C Estimated costs and returns per acre, Grower 02,
 No-Till Cotton, Bt Variety, 8-row, Solid (40-inch),
 Central Brown Loam, Mississippi, 1999.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.50	621.0000	310.50	_____
Cotton Seed	lb	0.05	963.0000	48.15	_____

TOTAL INCOME				358.65	_____
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (2 gal)	appl	2.20	2.0000	4.40	_____
App by Air (5 gal)	appl	3.25	1.0000	3.25	_____
HARVEST AIDS					
Def 6	pt	5.28	1.3300	7.02	_____
Dropp 50 WP	lb	54.87	0.1260	6.91	_____
GIN/DRY					
Gin	lb	0.08	621.0000	49.68	_____
FERTILIZERS					
Amm Nitrate (34% N)	cwt	9.15	2.7500	25.16	_____
Potash (60% K2O)	cwt	8.35	1.0000	8.35	_____
UAN (32% N)	cwt	6.03	2.0000	12.06	_____
HERBICIDES					
Roundup Ultra 4SL	pt	5.68	3.5000	19.88	_____
Prowl 3.3 EC	pt	3.16	2.0000	6.32	_____
Cotoran 4L	pt	4.19	3.0000	12.57	_____
Buctril 4EC	pt	13.25	0.8000	10.60	_____
MSMA6 + Surfactant	pt	1.97	3.5000	6.90	_____
Assure II	oz	0.89	1.3300	1.18	_____
INSECTICIDES					
Furadan 4F	pt	8.38	2.0000	16.76	_____
Lannate LV	pt	5.73	1.5000	8.60	_____
SEED/PLANTS					
Bt Cotton Seed	lb	0.99	11.0000	10.89	_____
TECHNOLOGY FEE					
Bt Cotton Fee	acre	32.00	1.0000	32.00	_____
Eradication Zone 3	acre	24.00	1.0000	24.00	_____
CUSTOM HARVEST/HAUL					
Haul Cotton	lb	0.02	621.0000	12.42	_____
OPERATOR LABOR					
Tractors	hour	8.31	0.9020	7.50	_____
Self-Propelled Eq.	hour	8.31	0.3950	3.28	_____
HAND LABOR					
Implements	hour	6.91	0.4760	3.29	_____
DIESEL FUEL					
Tractors	gal	0.65	6.7375	4.38	_____
Self-Propelled Eq.	gal	0.65	1.6950	1.10	_____
REPAIR & MAINTENANCE					
Implements	acre	4.82	1.0000	4.82	_____
Tractors	acre	4.64	1.0000	4.64	_____
Self-Propelled Eq.	acre	14.16	1.0000	14.16	_____
INTEREST ON OP. CAP.	acre	15.34	1.0000	15.34	_____

TOTAL DIRECT EXPENSES				337.46	_____
RETURNS ABOVE DIRECT EXPENSES				21.19	_____
FIXED EXPENSES					
Implements	acre	13.16	1.0000	13.16	_____
Tractors	acre	14.17	1.0000	14.17	_____
Self-Propelled Eq.	acre	27.88	1.0000	27.88	_____

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TOTAL FIXED EXPENSES	55.21	_____

TOTAL SPECIFIED EXPENSES	392.67	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES	-34.02	_____

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

Appendix Table 3.C

Estimated costs and returns per acre, Grower 03,

No-Till Cotton, Bt Variety, 8-row, (40-inch),
Central Brown Loam, Mississippi, 1999.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.50	584.0000	292.00	_____
Cotton Seed	lb	0.05	905.0000	45.25	_____
TOTAL INCOME				337.25	_____
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (2 gal)	appl	2.20	1.0000	2.20	_____
App by Air (5 gal)	appl	3.25	1.0000	3.25	_____
HARVEST AIDS					
Def 6	pt	5.28	2.0000	10.56	_____
GIN/DRY					
Gin	lb	0.08	584.0000	46.72	_____
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	12.47	1.5000	18.71	_____
Potash (60% K2O)	cwt	8.35	2.0000	16.70	_____
UAN (32% N)	cwt	6.03	2.5000	15.08	_____
FUNGICIDES					
Ridomil PC 11G	lb	1.70	6.0000	10.20	_____
HERBICIDES					
Roundup Ultra 4SL	pt	5.68	2.0000	11.36	_____
Bladex 4L	qt	6.83	0.8000	5.46	_____
Cotoran 4L	pt	4.19	1.5000	6.29	_____
Buctril 4EC	pt	13.25	2.0000	26.50	_____
Select 2EC	oz	1.32	12.0000	15.84	_____
INSECTICIDES					
Temik 15G	lb	3.19	3.0000	9.57	_____
Karate	oz	1.88	8.0000	15.04	_____
Methyl 4EC	pt	3.50	1.3400	4.69	_____
Lannate LV	pt	5.73	2.0000	11.46	_____
SEED/PLANTS					
Bt Cotton Seed	lb	0.99	12.0000	11.88	_____
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	32.0000	24.32	_____
CUSTOM HARVEST/HAUL					
Haul Cotton	lb	0.02	584.0000	11.68	_____
OPERATOR LABOR					
Tractors	hour	8.31	0.7060	5.87	_____
Self-Propelled Eq.	hour	8.31	0.6590	5.48	_____
HAND LABOR					
Implements	hour	6.91	0.4490	3.10	_____
DIESEL FUEL					
Tractors	gal	0.65	5.1686	3.36	_____
Self-Propelled Eq.	gal	0.65	2.2230	1.44	_____
REPAIR & MAINTENANCE					
Implements	acre	4.41	1.0000	4.41	_____
Tractors	acre	3.58	1.0000	3.58	_____
Self-Propelled Eq.	acre	18.46	1.0000	18.46	_____
INTEREST ON OP. CAP.	acre	18.97	1.0000	18.97	_____
TOTAL DIRECT EXPENSES				398.17	_____
RETURNS ABOVE DIRECT EXPENSES				-60.92	_____
FIXED EXPENSES					
Implements	acre	11.96	1.0000	11.96	_____
Tractors	acre	10.94	1.0000	10.94	_____

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Self-Propelled Eq.	acre	35.74	1.0000	35.74	_____

TOTAL FIXED EXPENSES				58.64	_____

TOTAL SPECIFIED EXPENSES				456.81	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-119.56	_____

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

Appendix Table 4.C Estimated costs and returns per acre, Grower 04,

No-Till Cotton, Bt RR Variety, 8-row, 40-inch,
Solid, South Brown Loam, Mississippi, 1999.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.50	755.0000	377.50	_____
Cotton Seed	lb	0.05	1170.0000	58.50	_____
TOTAL INCOME				436.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY					
Flotation Tractor	acre	4.00	1.0000	4.00	_____
HARVEST AIDS					
Dropp 50 WP	lb	54.87	0.1243	6.82	_____
Def 6	pt	5.28	1.0000	5.28	_____
GIN/DRY					
Gin	lb	0.08	755.0000	60.40	_____
FERTILIZERS					
Fert 0-17-34	cwt	10.29	0.3500	3.60	_____
Amm Nitrate (34% N)	cwt	9.15	2.0000	18.30	_____
N-Sol (Liquid 32% N)	gal	0.56	12.0000	6.77	_____
Sulfur	lb	0.40	15.0000	6.00	_____
Boron (Solubor)	lb	0.60	1.0000	0.60	_____
FUNGICIDES					
Terraclor 2EC	pt	2.18	0.5000	1.09	_____
Ridomil PC 11G	lb	1.70	0.1600	0.27	_____
HERBICIDES					
Roundup Ultra 4SL	pt	5.68	7.0000	39.76	_____
2,4-D Ester	pt	1.75	1.0000	1.75	_____
Prowl 3.3 EC	pt	3.16	2.0000	6.32	_____
Gramoxone Extra	pt	4.41	1.5000	6.62	_____
Bladex 4L	qt	6.83	1.2000	8.20	_____
Caparol 4L	pt	3.54	0.5000	1.77	_____
MSMA 6.6	pt	2.15	1.0000	2.15	_____
INSECTICIDES					
Temik 15G	lb	3.19	3.5000	11.17	_____
Ammo 2.5 EC	oz	1.70	1.2800	2.18	_____
SEED/PLANTS					
Cotton Seed Bt RR	lb	1.00	10.0000	10.00	_____
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					
Lime (Spread)	ton	26.73	0.3300	8.82	_____
CUSTOM HARVEST/HAUL					
Haul Cotton	lb	0.02	755.0000	15.10	_____
OPERATOR LABOR					
Tractors	hour	8.31	0.9970	8.29	_____
Self-Propelled Eq.	hour	8.31	0.5600	4.65	_____
HAND LABOR					
Implements	hour	6.91	0.4645	3.21	_____
DIESEL FUEL					
Tractors	gal	0.65	7.3969	4.81	_____
Self-Propelled Eq.	gal	0.65	2.0250	1.32	_____
REPAIR & MAINTENANCE					
Implements	acre	4.11	1.0000	4.11	_____
Tractors	acre	5.12	1.0000	5.12	_____
Self-Propelled Eq.	acre	16.84	1.0000	16.84	_____
INTEREST ON OP. CAP.	acre	16.23	1.0000	16.23	_____
TOTAL DIRECT EXPENSES				368.70	_____
RETURNS ABOVE DIRECT EXPENSES				67.30	_____
FIXED EXPENSES					
Implements	acre	11.76	1.0000	11.76	_____
Tractors	acre	15.63	1.0000	15.63	_____
Self-Propelled Eq.	acre	32.80	1.0000	32.80	_____
TOTAL FIXED EXPENSES				60.18	_____
TOTAL SPECIFIED EXPENSES				428.88	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				7.12	_____

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

Appendix Table 5.C Estimated costs and returns per acre, Grower 05,
 No-Till Cotton, Conventional Variety, 12-row,
 30-inch, Solid, North Delta, Mississippi, 1999.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.50	675.0000	337.50	_____
Cotton Seed	lb	0.05	1046.0000	52.30	_____

TOTAL INCOME				389.80	_____
DIRECT EXPENSES					
HARVEST AIDS					
Def 6	pt	5.28	1.0000	5.28	_____
Prep	pt	6.46	1.0000	6.46	_____
GIN/DRY					
Gin	lb	0.08	675.0000	54.00	_____
FERTILIZERS					
Anhy Ammonia (82% N)	cwt	11.15	1.2500	13.94	_____
FUNGICIDES					
Vitavax M	oz	0.13	10.0000	1.30	_____
Apron XL	oz	9.04	0.5000	4.52	_____
HERBICIDES					
Roundup D-PAK	oz	0.47	18.0000	8.46	_____
Trifluralin 4EC	pt	2.48	1.5000	3.72	_____
Assure II	oz	0.89	7.5000	6.68	_____
Meturon 4L	lb	6.38	1.5000	9.57	_____
Staple	oz	20.85	1.7000	35.45	_____
Bladex 4L	qt	6.83	1.2000	8.20	_____
MSMA 6.6	pt	2.15	2.4000	5.16	_____
INSECTICIDES					
Methyl 4EC	pt	3.50	0.6700	2.35	_____
Orthene 90S	lb	9.41	0.2900	2.73	_____
Baythroid 2	oz	3.14	2.0000	6.28	_____
SEED/PLANTS					
Cotton Seed	lb	0.94	9.5000	8.93	_____
ERADICATION ZONE					
Eradication Zone 1	acre	22.00	1.0000	22.00	_____
GROWTH REGULATORS					
Pix	oz	0.76	16.0000	12.16	_____
CUSTOM HARVEST/HAUL					
Haul Cotton	lb	0.02	675.0000	13.50	_____
SPRAY APP COSTS					
App Insect - Ground	acre	3.30	3.0000	9.90	_____
OPERATOR LABOR					
Tractors	hour	8.31	1.0700	8.89	_____
Self-Propelled Eq.	hour	8.31	0.5270	4.38	_____
HAND LABOR					
Implements	hour	6.91	0.3485	2.41	_____
DIESEL FUEL					
Tractors	gal	0.65	9.0630	5.89	_____
Self-Propelled Eq.	gal	0.65	1.9590	1.27	_____
REPAIR & MAINTENANCE					
Implements	acre	5.56	1.0000	5.56	_____
Tractors	acre	5.74	1.0000	5.74	_____
Self-Propelled Eq.	acre	16.31	1.0000	16.31	_____
INTEREST ON OP. CAP.	acre	13.77	1.0000	13.77	_____

TOTAL DIRECT EXPENSES				304.79	_____
RETURNS ABOVE DIRECT EXPENSES				85.01	_____
FIXED EXPENSES					
Implements	acre	14.90	1.0000	14.90	_____
Tractors	acre	18.64	1.0000	18.64	_____
Self-Propelled Eq.	acre	31.81	1.0000	31.81	_____

TOTAL FIXED EXPENSES				65.35	_____

TOTAL SPECIFIED EXPENSES				370.14	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				19.66	_____

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

Appendix Table 6.C Estimated costs and returns per acre, Grower 06,
 No-Till Cotton, Bt RR Variety, 8-row, Solid,
 North Delta, Mississippi, 1999.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.50	1125.0000	562.50	_____
Cotton Seed	lb	0.05	1744.0000	87.20	_____
TOTAL INCOME				649.70	_____
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (2 gal)	appl	2.20	1.0000	2.20	_____
App by Air (3 gal)	appl	2.60	3.0000	7.80	_____
App by Air (5 gal)	appl	3.25	2.0000	6.50	_____
HARVEST AIDS					
Dropp 50 WP	lb	54.87	0.1260	6.91	_____
Def 6	pt	5.28	1.3300	7.02	_____
Solium Chlorate 6L	gal	4.29	0.5000	2.15	_____
Starfire	pt	4.15	0.2500	1.04	_____
GIN/DRY					
Gin	lb	0.08	1125.0000	90.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	8.35	0.9000	7.52	_____
Fert 28-0-0-4	lb	0.22	200.0000	44.00	_____
Insol	gal	0.75	15.0000	11.25	_____
FUNGICIDES					
Ridomil PC 11G	lb	1.70	10.0000	17.00	_____
HERBICIDES					
Roundup Ultra 4SL	pt	5.68	9.0000	51.12	_____
Bladex 4L	qt	6.83	0.8000	5.46	_____
MSMA6 + Surfactant	pt	1.97	0.8000	1.58	_____
INSECTICIDES					
Temik 15G	lb	3.19	3.5000	11.17	_____
Bidrin 8L	oz	0.69	7.6800	5.30	_____
Orthene 90S	lb	9.41	1.6600	15.62	_____
Methyl 4EC	pt	3.50	2.8000	9.80	_____
Karate	oz	1.88	0.3800	0.71	_____
SEED/PLANTS					
Cotton Seed Bt - RR	lb	1.00	11.0000	11.00	_____
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	20.0000	15.20	_____
SERVICE FEE					
Soil Test	acre	2.00	1.0000	2.00	_____
CUSTOM HARVEST/HAUL					
Haul Cotton	lb	0.02	1125.0000	22.50	_____
OPERATOR LABOR					
Tractors	hour	8.31	1.1850	9.85	_____
Self-Propelled Eq.	hour	8.31	0.5270	4.38	_____
HAND LABOR					
Implements	hour	6.91	0.6155	4.25	_____
DIESEL FUEL					
Tractors	gal	0.65	8.9390	5.81	_____
Self-Propelled Eq.	gal	0.65	1.9590	1.27	_____
REPAIR & MAINTENANCE					
Implements	acre	5.53	1.0000	5.53	_____
Tractors	acre	6.15	1.0000	6.15	_____
Self-Propelled Eq.	acre	16.31	1.0000	16.31	_____
INTEREST ON OP. CAP.	acre	23.38	1.0000	23.38	_____
TOTAL DIRECT EXPENSES				494.77	_____

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RETURNS ABOVE DIRECT EXPENSES				154.93	_____
FIXED EXPENSES					
Implements	acre	14.93	1.0000	14.93	_____
Tractors	acre	18.77	1.0000	18.77	_____
Self-Propelled Eq.	acre	31.81	1.0000	31.81	_____

TOTAL FIXED EXPENSES				65.51	_____

TOTAL SPECIFIED EXPENSES				560.28	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				89.42	_____

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

Appendix Table 7.C

Estimated costs and returns per acre, Grower 07,

No-Till Cotton, Bt Variety, 10-row, 30-inch,
Solid, Central Delta, Mississippi 1999.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.50	722.0000	361.00	_____
Cotton Seed	lb	0.05	1119.0000	55.95	_____

TOTAL INCOME				416.95	_____
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	3.25	0.5000	1.63	_____
App by Air (3 gal)	appl	2.60	1.0000	2.60	_____
Spray Hi-Boy	acre	2.50	1.0000	2.50	_____
HARVEST AIDS					
Dropp 50 WP	lb	54.87	0.1240	6.80	_____
CottonQuik	pt	3.74	0.5000	1.87	_____
GIN/DRY					
Gin	lb	0.08	720.0000	57.60	_____
FERTILIZERS					
N-Sol (Liquid 32% N)	gal	0.56	10.0000	5.64	_____
Fert 28-0-0-5	cwt	12.65	1.0000	34.79	_____
HERBICIDES					
Roundup Ultra 4SL	pt	5.68	3.3300	18.91	_____
Gramoxone Extra	pt	4.41	2.0000	8.82	_____
Dual 8E	pt	7.88	0.4500	3.55	_____
Cotoran 4L	pt	4.19	1.0000	4.19	_____
Cypro	gal	26.30	1.0000	26.30	_____
Bladex 4L	qt	6.83	1.1700	7.99	_____
MSMA 6.6	pt	2.15	0.8000	1.72	_____
Select 2EC	oz	1.32	16.0000	21.12	_____
Staple	oz	20.85	1.2000	25.02	_____
INSECTICIDES					
Scout X-TRA	oz	1.97	0.6400	1.26	_____
Bidrin 8L	oz	0.69	7.3200	5.05	_____
Orthene 90S	lb	9.41	0.5000	4.71	_____
Provado 1.6F	oz	3.35	2.0000	6.70	_____
Decis 1.5EC	oz	3.56	3.6000	12.82	_____
Furadan 4F	pt	8.38	0.5000	4.19	_____
Vydate C-LV	oz	0.47	8.5000	4.00	_____
Larvin 3.2	oz	0.43	32.0000	13.76	_____
SEED/PLANTS					
Cotton Seed Bt	lb	0.99	10.0000	9.90	_____
TECHNOLOGY FEE					
Cot Tech Fee 33 Bt	acre	30.20	1.0000	30.20	_____
Eradication Zone 2	acre	22.00	1.0000	22.00	_____
CUSTOM HARVEST/HAUL					
Haul Cotton	lb	0.02	720.0000	14.40	_____
SPRAY APP COSTS					
App Insect - Ground	acre	3.30	6.0000	19.80	_____
OPERATOR LABOR					
Tractors	hour	8.31	0.9200	7.65	_____
Self-Propelled Eq.	hour	8.31	0.4115	3.42	_____
HAND LABOR					
Implements	hour	6.91	0.4615	3.19	_____
DIESEL FUEL					
Tractors	gal	0.65	7.0227	4.56	_____
Self-Propelled Eq.	gal	0.65	1.7280	1.12	_____
REPAIR & MAINTENANCE					
Implements	acre	4.04	1.0000	4.04	_____
Tractors	acre	4.83	1.0000	4.83	_____
Self-Propelled Eq.	acre	14.42	1.0000	14.42	_____
INTEREST ON OP. CAP.	acre	21.56	1.0000	21.56	_____

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TOTAL DIRECT EXPENSES				444.62	_____
RETURNS ABOVE DIRECT EXPENSES				-27.67	=====
FIXED EXPENSES					
Implements	acre	11.21	1.0000	11.21	_____
Tractors	acre	14.74	1.0000	14.74	_____
Self-Propelled Eq.	acre	28.37	1.0000	28.37	_____

TOTAL FIXED EXPENSES				54.32	_____

TOTAL SPECIFIED EXPENSES				498.94	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-81.99	=====

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

Appendix Table 8.C

Estimated costs and returns per acre, Grower 08,

No-Till Cotton, Bt Variety, 6-row, 40-inch,
Solid, Central Delta, Mississippi, 1999.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.50	750.0000	375.00	_____
Cotton Seed	lb	0.05	1162.5000	58.13	_____

TOTAL INCOME				433.13	_____
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (3 gal)	appl	2.60	0.0900	0.23	_____
App by Air (5 gal)	appl	3.25	1.0000	3.25	_____
HARVEST AIDS					
Dropp 50 WP	lb	54.87	0.1200	6.58	_____
Def 6	pt	5.28	1.0000	5.28	_____
GIN/DRY					
Gin	lb	0.08	750.0000	60.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	8.35	2.5000	20.88	_____
Phosphorus(46% P2O5)	cwt	12.47	0.3500	4.36	_____
N-Sol (Liquid 32% N)	gal	0.56	34.0000	19.18	_____
FUNGICIDES					
Terraclor Super X EC	pt	3.37	3.0000	10.11	_____
HERBICIDES					
Roundup Ultra 4SL	pt	5.68	5.9300	33.68	_____
2,4-D Ester	pt	1.75	1.0000	1.75	_____
Dual II	pt	8.16	0.4000	3.26	_____
Cotoran 4L	pt	4.19	1.0000	4.19	_____
Zorial Rapid 80	lb	13.69	0.2500	3.42	_____
Staple	oz	20.85	1.2000	25.02	_____
MSMA 6.6	pt	2.15	1.3700	2.95	_____
Caparol 4L	pt	3.54	0.5700	2.02	_____
Direx 4L	pt	2.25	0.8000	1.80	_____
Bladex 4L	qt	6.83	0.9000	6.15	_____
INSECTICIDES					
Dimethoate 4E	pt	3.96	0.4000	1.58	_____
Temik 15G	lb	3.19	3.5000	11.17	_____
Ammo 2.5 EC	oz	1.70	3.7124	6.31	_____
Methyl 4EC	pt	3.50	1.3300	4.66	_____
Vydate C-LV	oz	0.47	15.5782	7.32	_____
Baythroid 2	oz	3.14	0.2304	0.72	_____
Orthene 90S	lb	9.41	0.0537	0.51	_____
SEED/PLANTS					
Bt Cotton Seed	lb	0.99	12.0000	11.88	_____
TECHNOLOGY FEE					
Bt Cotton Fee	acre	32.00	1.0000	32.00	_____
Eradication Zone 2	acre	22.00	1.0000	22.00	_____
GROWTH REGULATORS					
PGR IV	oz	1.50	3.6100	5.42	_____
Pix	oz	0.76	10.6700	8.11	_____
CUSTOM HARVEST/HAUL					
Haul Cotton	lb	0.02	750.0000	15.00	_____
SPRAY APP COSTS					
App Insect - Ground	acre	3.30	5.1400	16.96	_____
App Mixture - Air	acre	3.25	1.0000	3.25	_____
App Insect - Air	acre	3.25	0.2600	0.85	_____
OPERATOR LABOR					
Tractors	hour	8.31	1.6220	13.48	_____
Self-Propelled Eq.	hour	8.31	0.3620	3.01	_____
HAND LABOR					
Implements	hour	6.91	0.8515	5.88	_____
DIESEL FUEL					
Tractors	gal	0.65	11.8198	7.68	_____
Self-Propelled Eq.	gal	0.65	1.6290	1.06	_____
REPAIR & MAINTENANCE					

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Implements	acre	6.92	1.0000	6.92	_____
Tractors	acre	8.24	1.0000	8.24	_____
Self-Propelled Eq.	acre	13.62	1.0000	13.62	_____
INTEREST ON OP. CAP.	acre	23.08	1.0000	23.08	=====
TOTAL DIRECT EXPENSES				444.81	=====
RETURNS ABOVE DIRECT EXPENSES				-11.69	=====
FIXED EXPENSES					
Implements	acre	18.02	1.0000	18.02	_____
Tractors	acre	25.14	1.0000	25.14	_____
Self-Propelled Eq.	acre	26.90	1.0000	26.90	_____
TOTAL FIXED EXPENSES				70.06	=====
TOTAL SPECIFIED EXPENSES				514.87	=====
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-81.75	=====

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

Appendix Table 9.C Estimated costs and returns per acre, Grower 09,
 No-Till Cotton, Bt Variety, 12-Row, 40-inch,
 Solid, Central Delta, Mississippi, 1999.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.50	711.0000	355.50	_____
Cotton Seed	lb	0.05	1102.0000	55.10	_____

TOTAL INCOME				410.60	_____
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (3 gal)	appl	2.60	1.0000	2.60	_____
App by Air (5 gal)	appl	3.25	2.0000	6.50	_____
HARVEST AIDS					
Def 6	pt	5.28	3.0000	15.84	_____
Solium Chlorate 6L	gal	4.29	0.7500	3.22	_____
GIN/DRY					
Gin	lb	0.08	711.0000	56.88	_____
FERTILIZERS					
N-Sol (Liquid 32% N)	gal	0.56	31.3000	17.66	_____
HERBICIDES					
Roundup Ultra 4SL	pt	5.68	4.6000	26.13	_____
Dual 8E	pt	7.88	0.4000	3.15	_____
Cotoran 4L	pt	4.19	1.0000	4.19	_____
Zorial Rapid 80	lb	13.69	0.2500	3.42	_____
Staple	oz	20.85	0.2500	5.21	_____
Bladex 4L	qt	6.83	0.1250	0.85	_____
Direx 4L	pt	2.25	0.1250	0.28	_____
Gramoxone Extra	pt	4.41	1.5000	6.62	_____
INSECTICIDES					
Temik 15G	lb	3.19	3.5000	11.17	_____
SEED/PLANTS					
Bt Cotton Seed	lb	0.99	10.0000	9.90	_____
TECHNOLOGY FEE					
Bt Cotton Fee	acre	32.00	1.0000	32.00	_____
Eradication Zone 2	acre	22.00	1.0000	22.00	_____
GROWTH REGULATORS					
Pix	oz	0.76	5.3300	4.05	_____
CUSTOM HARVEST/HAUL					
Haul Cotton	lb	0.02	711.0000	14.22	_____
OPERATOR LABOR					
Tractors	hour	8.31	1.0860	9.02	_____
Self-Propelled Eq.	hour	8.31	0.3620	3.01	_____
HAND LABOR					
Implements	hour	6.91	0.5015	3.47	_____
DIESEL FUEL					
Tractors	gal	0.65	8.3240	5.41	_____
Self-Propelled Eq.	gal	0.65	1.6290	1.06	_____
REPAIR & MAINTENANCE					
Implements	acre	4.61	1.0000	4.61	_____
Tractors	acre	5.72	1.0000	5.72	_____
Self-Propelled Eq.	acre	13.62	1.0000	13.62	_____
INTEREST ON OP. CAP.	acre	13.90	1.0000	13.90	_____

TOTAL DIRECT EXPENSES				305.71	_____
RETURNS ABOVE DIRECT EXPENSES				104.89	_____

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FIXED EXPENSES					
Implements	acre	12.86	1.0000	12.86	_____
Tractors	acre	17.46	1.0000	17.46	_____
Self-Propelled Eq.	acre	26.90	1.0000	26.90	_____

TOTAL FIXED EXPENSES				57.22	_____

TOTAL SPECIFIED EXPENSES				362.93	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				47.67	_____

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

Appendix Table 10.C Estimated costs and returns per acre, Grower 10,
 No-Till Cotton, BXN Variety, 8-row, Narrow-Skip,
 Central Delta, Mississippi, 1999.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.50	625.0000	312.50	_____
Cotton Seed	lb	0.05	968.7500	48.44	_____

TOTAL INCOME				360.94	_____
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	3.25	1.0000	3.25	_____
HARVEST AIDS					
Dropp 50 WP	lb	54.87	0.1250	6.86	_____
Sodium Chlorate 3L	gal	2.21	0.3000	0.66	_____
Starfire	pt	4.15	0.0500	0.21	_____
GIN/DRY					
Gin	lb	0.08	625.0000	50.00	_____
FERTILIZERS					
N-Sol (Liquid 32% N)	gal	0.56	45.6500	25.75	_____
HERBICIDES					
Roundup Ultra 4SL	pt	5.68	4.0000	22.72	_____
Cotoran DF	lb	7.25	1.6000	11.60	_____
Staple	oz	20.85	0.6000	12.51	_____
Buctril 4EC	pt	13.25	3.0000	39.75	_____
Select 2EC	oz	1.32	8.0000	10.56	_____
INSECTICIDES					
Orthene 90S	lb	9.41	0.7500	7.06	_____
Provado 1.6F	oz	3.35	3.7500	12.56	_____
SEED/PLANTS					
Cotton Seed BXN	lb	0.95	15.0000	14.25	_____
TECHNOLOGY FEE					
Cot Tech Fee BXN	acre	9.00	1.0000	9.00	_____
Eradication Zone 2	acre	22.00	1.0000	22.00	_____
CUSTOM HARVEST/HAUL					
Haul Cotton	lb	0.02	625.0000	12.50	_____
SPRAY APP COSTS					
App Insect - Ground	acre	3.30	2.0000	6.60	_____
App Insect - Air	acre	3.25	1.0000	3.25	_____
OPERATOR LABOR					
Tractors	hour	8.31	1.1740	9.76	_____
Self-Propelled Eq.	hour	8.31	0.4110	3.42	_____
HAND LABOR					
Implements	hour	6.91	0.5600	3.87	_____
DIESEL FUEL					
Tractors	gal	0.65	9.0146	5.86	_____
Self-Propelled Eq.	gal	0.65	1.7270	1.12	_____
REPAIR & MAINTENANCE					
Implements	acre	5.14	1.0000	5.14	_____
Tractors	acre	6.15	1.0000	6.15	_____
Self-Propelled Eq.	acre	14.31	1.0000	14.31	_____
INTEREST ON OP. CAP.	acre	16.01	1.0000	16.01	_____

TOTAL DIRECT EXPENSES				336.73	_____
RETURNS ABOVE DIRECT EXPENSES				24.21	_____
FIXED EXPENSES					
Implements	acre	14.06	1.0000	14.06	_____
Tractors	acre	18.76	1.0000	18.76	_____
Self-Propelled Eq.	acre	28.17	1.0000	28.17	_____

TOTAL FIXED EXPENSES				61.00	_____

TOTAL SPECIFIED EXPENSES				397.72	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-36.79	_____

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