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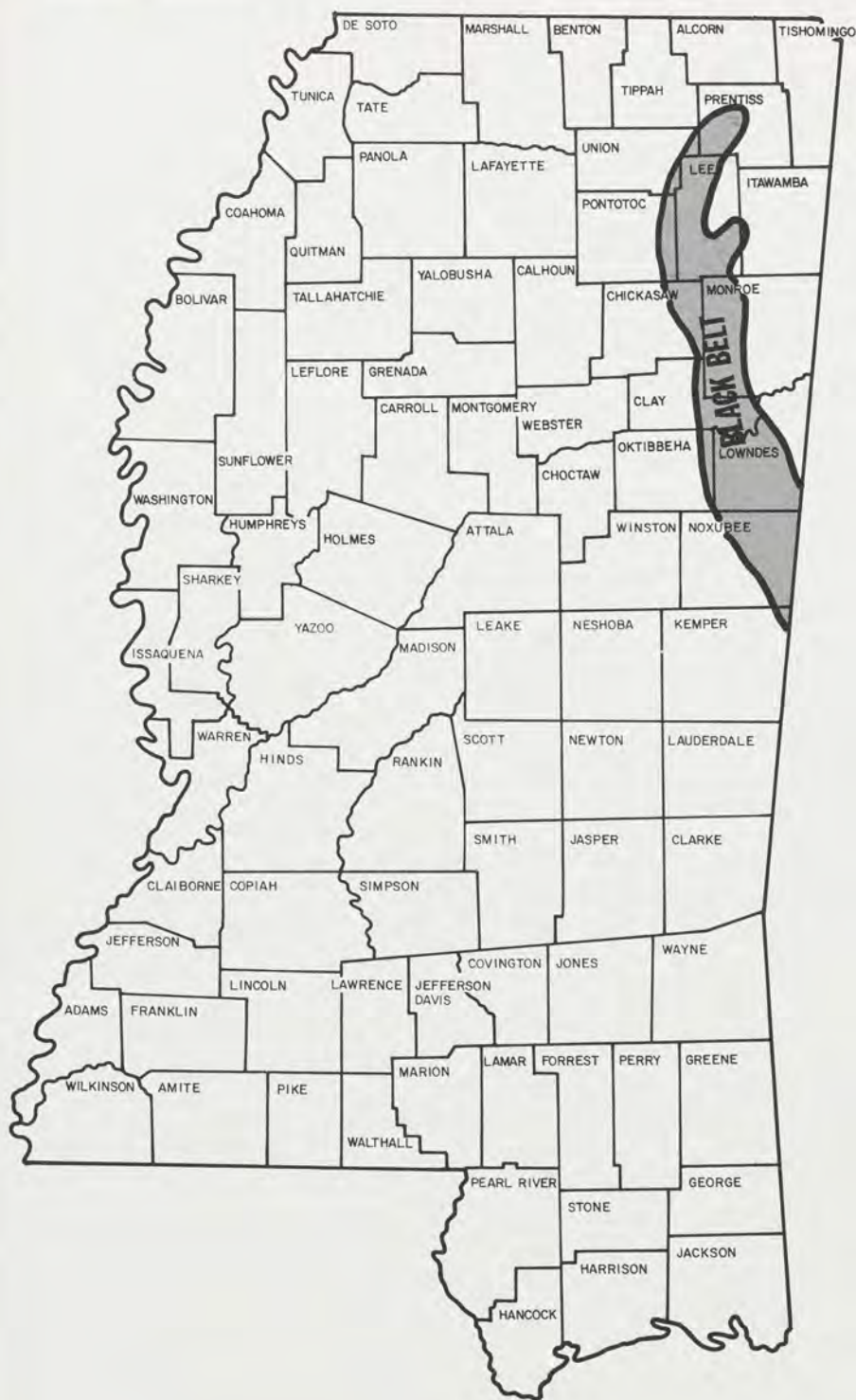
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Cost of Production Estimates For the Black Belt of Northeast Mississippi, 1978

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In Cooperation with Commodity Economics Division; Economics, Statistics and Cooperatives Service; U. S. Department of of Agriculture

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ACKNOWLEDGEMENTS

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FOREWORD

Data presented in this report were developed to support research by the Department of Agricultural Economics, Mississippi Agricultural and Forestry Experiment Station and the Commodity Economics Division, Economics, Statistics and Cooperatives Service, USDA, and to provide others with current information on production practices and costs associated with various agricultural enterprises.

This report updates Bulletin 851, "Cost of Production Estimates for the Black Belt of Northeast Mississippi, 1977" [12]. Users interested in data collection procedures and budget estimation techniques are referred to earlier publications [1, 2, 3, 9].

Readers are cautioned that costs presented are labeled "Total Specified Costs". Charges for land, management, and general farm overhead are **not** included.

Farmers should make 1978 planting decisions based on "returns above direct expenses." This would be a one-year short run decision. Long run decisions must be based upon returns above total expenses. Total expenses include both direct and fixed expenses (estimated in this publication) plus all other expenses such as land, management, and general farm overhead.

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Cost of Production Estimates For the Black Belt of Northeast Mississippi, 1978

INTRODUCTION

This publication provides information on production practices and costs for selected crops grown in the Blackbelt Area of Northeast Mississippi. Current production

practices and costs of the more important agricultural enterprises are routinely needed by researchers, farmers, extension specialists, and other workers in

agriculture. This publication is one of a series of recent publications [3, 5, 6, 7, 8, 9, 10, 11, 12] dealing with the costs of crop production in Mississippi.

ENTERPRISE BUDGETS

Each budget lists and describes all operations used to produce the crop. If an operation is followed by a times sign and a whole number (such as X2), it is repeated that number of times. In such cases, the listed cost is the cost of a single operation multiplied by the number of times it is performed. If a fraction is used, the operation is performed less often than annually. Thus, "apply lime X1/4", means that lime would be applied every 4 years, and the listed costs are one-fourth of total cost for that operation. All budgets assume a 10% replant, and if a row condition operation is specified, it is assumed that 20% of the acreage must be row conditioned a second time. The month the operation usually is performed is indicated along with

labor costs, direct and fixed tractor and equipment costs, materials costs, and miscellaneous costs.

Labor is charged at the rate of \$2.65 per hour. A charge of 9% for interest on operating capital is included. Operating capital includes all items except fixed costs and assumes that operating capital is borrowed. Interest charges on operating capital are for the period of time used and not for the whole year. Costs for self-propelled harvesting equipment appear under equipment costs. Miscellaneous costs include charges for custom services, lime, hauling costs, ginning, drying, and storage costs where appropriate.

Tractor and machinery prices and related data are included in Table 1; prices for chemicals, seed,

fertilizers and other materials in Tables 2 and 3; and charges for aerial application in Table 4.¹ Expected prices for 1978 were obtained from dealers in all major agricultural producing regions of the state in mid-December 1977.

These budgets do not include such items as taxes, insurance, drainage, bookkeeping, pickup truck expenses, land rent charges, management, or other overhead expenses.

The 90-100 DBHP² 2-wheel drive tractor is the prime power source for all 4-row budgets. The 100-115 DBHP 2-wheel drive tractor is the prime power source assumed for all 6-row budgets. The 115-150 DBHP 2-wheel drive tractor is the prime power source assumed for all 8-row budgets.

¹For convenience all tables are placed after the text.

²Drawbar horsepower, Nebraska rating.

Interpretation of the per acre cost estimates summarized in this report requires the definition of two terms. "Usual input practices" describe the practices most commonly used by the farmers in this area. This set of practices would more nearly describe the modal rather than the mean situation. "High input practices" describe the practices used by farmers who are striving for higher yields or who are having more severe weed and insect problems than are generally encountered. It cannot be assumed that this level of inputs is more desirable, or reflects a more advanced technology.

Each budget is summarized in two budget tables. For example, Tables 7 and 8 are a set.³ The first

table of each set reports estimated cost per acre on an operation-by-operation basis. The figures in the body of these tables are dollars. These tables allow the user to take a quick look at the cost of producing a crop on an operation-by-operation basis.

The second table of each set of individual budgets reports estimated income and includes the quantity and price of each input used. By referring to the second table of each set the reader can determine the type of fertilizer, the price, the quantity applied, and other pertinent information.

Machinery charges are divided into three categories—special equipment, equipment, and tractor. Special equipment refers to self-

propelled equipment; i.e., combines, cotton pickers and high clearance sprayers. Equipment refers to towed equipment. Labor also is divided into three categories. Operator labor denotes tractor driver labor. Special labor refers to driver time for self-propelled equipment and common labor is all other labor.

All budget tables are computer generated. Non-integer numbers in the tables are rounded as they are listed. However, the rounding does not occur in the internal calculations within the computer program. Therefore, row and column sums may not exactly equal the listed numbers that are summed.

Soybeans

All operations and materials used for producing soybeans under "usual input practices" (Tables 7-16) are identical. Differences in these budgets result from differences in tractor and equipment size, row spacing, and quantity of banded materials.

Usual Input Practices—Tractor, equipment and labor charges for a given operation differ from budget to budget because of differences in tractor and equipment size. Changes in equipment size modify labor (tractor driver time) requirements per acre and this results in variations in the labor charges per acre.

Liming is charged at an annual rate of \$4.38—a charge that reflects a custom rate of \$8.75 per ton for two tons applied per acre each 4 years. Operations involving only a tractor and towed equipment are self-explanatory. Tractor and equipment direct and fixed costs for such operations are presented along with a labor charge. This labor charge is for the tractor driver.

The first operation involving material is the disk and incorporate operation (entitled "DISK + INCOR"). The material charge of \$5.85 reflects 1.0 pound (active ingredient) of Treflan®. The "APPLY FERT" operation shows a material charge of \$17.07. This reflects the application of 250 pounds of 0-24-24.

The planting operation shows a material charge of \$9.35. This reflects 55 pounds of seed, based on a 50 pound planting rate and assumed 10 percent replant.

Budgets for "usual input practices" with 38-inch row spacing assume that the producer applies Basagran® to only one-fourth of his acreage and the material cost of 88 cents reported for "SPRAY HCLEAR 14 ROW" is for only .06 pound of Basagran per acre. The cultivate and post late operation for 38-inch row spacing indicates a material charge of \$1.37 for .6 pounds of dinoseb.

Two materials were increased to account for the additional linear

feet of row per acre with 30-inch row spacing. The operation labeled "SPRAY HCLEAR 14 ROW" shows a material charge of \$1.15 for .08 pound of Basagran instead of the .06 pound which was specified for the 38-inch row spacing. The other charge reflects the application of dinoseb in the operation labeled "CULT + POST LATE". The material charge of \$1.73 is for .76 pound of dinoseb instead of the .6 pound specified for the 38-inch row spacing. Seeding rate was not changed as the row width was narrowed.

High Input Practices—Budgets for "high input practices" (Tables 17-26) include four operations in the fall as opposed to only one in the "usual input practices" budgets. Most of this is a simple shift of spring seedbed operations to the fall. However, a deep chisel operation is added.

Three other differences occur. A preemergence herbicide was added to the planting operation. The materials charge of \$10.72 reflects a seed charge of \$9.35 (same as

³Tables 5 and 6 contain summaries of individual crop budgets (Tables 7-46).

"usual input practices") plus .6 pound of dinoseb per acre priced at \$2.28 per pound or \$1.37 per acre. A herbicide application at cracking stage was added. This operation is labeled "SPRAY HCLEAR 14 ROW". It appears immediately after the "PLANT + PRE" operation. This operation includes a material charge of \$3.42 for 1.5

pounds of dinoseb. The other difference involves Basagran. This operation is labeled "SPRAY HCLEAR 14 ROW". The "high input practices" budgets include the treatment of total acreage with Basagran and the material charge of \$3.50 is for .25 pound of Basagran per acre.

Producing soybeans in 30-inch

rows requires more of some materials because of the additional linear feet of row per acre. More dinoseb is indicated for the operations labeled "PLANT + PRE" and "CULT + POST LATE". Additional Basagran is specified for the operation labeled "SPRAY HCLEAR 14 ROW".

Cotton

The "usual input practices" budgets (Tables 27-32) specify only three operations in the fall—four fall operations are included in the "high input practices" budgets (Tables 33-38). A deep chisel operation and a spring disk bed operation in the fall are added to the "high input practices" budget.

Usual Input Practices—The first operation specifying a materials cost is "DISK + INCOR". It includes a charge of \$5.85 for 1.0 pound of Treflan. The first "APPLY FERT" includes a material charge of \$19.37 for 250 pounds of 8-24-24. "PLANT + PRE" lists a material charge of \$16.26 for 1.25 pounds of Cotoran®, .3 pounds of Temik®, .1 pound of Soil Treater XXX® (fungicide), and 27.5 pounds of seed (based on a 25 pound seeding rate and a 10 percent replant). The second "APPLY

FERT" includes a material charge of \$20.10 for 300 pounds of ammonium nitrate.

The material charge of \$.78 for "CULT + POST EARLY" is for .80 pound of MSMA. The two "CULT + POST LATE" operations each include a charge of .21 pound of Karmex (WP)®. "APPLY DEFOLIATE" specifies the application of 1.43 pounds of Def®.

High Input Practices—These budgets specify four cultivate and post operations whereas the "usual input practices" budgets specify only three cultivate and post operations. Additionally, the postemerge herbicide charge of \$5.02 is based on a different treatment—.40 pound of MSMA and .80 pound of Cotoran. The "high input practices" budgets also add two ground applications of MSMA. This operation is labeled

"APPLY MSMA GROUND X2". The material charge of \$1.57 is for .80 pound of MSMA per application.

Insecticide Programs—The "usual input practices" budgets specify 13 insecticide treatments and the "high input practices" budgets list 15 treatments.

The "usual input practices" insecticide program is: .30 pound of Temik applied at planting, .20 pound of Bidrin®, five applications of .25 pound guthion, five applications of 1.6 pints of EPN + methyl parathion (3-3), and .45 pound of Lannate.®

The "high input practices" budgets are identical to those for "usual input practices" except that three applications of guthion and nine applications of EPN + methyl parathion (3-3) are made.

Grain Sorghum for Grain

Tractor, equipment, and labor charges for a given operation differ from budget to budget because of differences in tractor and equipment size. Changes in equipment size modify labor (tractor driver time) requirements per acre and this results in variations in the

labor charge per acre (Tables 39-44).

The first operation involving a material is the planting operation which shows a material charge of \$4.00 for seed. A material charge of \$17.50 is listed for 250 pounds of anhydrous ammonia. The "CULT

+ POST EARLY" operation includes a charge of \$.99 for .50 pound of 2,4-D. The "APPLY INS-AIR X2" operation includes a material charge of \$5.88 for 3.0 pounds of Sevin®, bringing the total estimated materials charge to \$28.37.

Wheat

Tables 45 and 46 report the estimated per acre cost of producing wheat. The prime power source

for wheat production is the 115-150 DBHP tractor, the same tractor that was used for the 8-row soybean

and cotton budgets. The first operation labeled "APPLY FERT" requires a materials charge of \$15.50

for 200 pounds of 8-24-24. The planting operation includes a material charge of \$6.16 for 88 pounds of seed (based upon an 80 pound seeding rate and a 10 per-

cent replant). The second application of fertilizer requires a material charge of \$20.10 for 300 pounds of ammonium nitrate. The charge of \$1.99 for "APP 2,4-DAIR" includes

the cost of one pound of 2,4-D. Total materials cost for producing one acre of wheat is estimated at \$43.75. Fertilizer costs are \$35.60 or 81 percent of total materials cost.

SPECIFIED COSTS AND NET RETURNS

Soybeans

Costs per acre range from \$76.99 for "usual input practices", 8-row equipment and 38-inch row spacing to \$105.70 for "high input practices", 6-row equipment and

30-inch row spacing (Table 5). Returns per acre for soybeans yielding 23 bushels and selling for \$5.50 range from \$16.59 for "high input practices", 8-row equipment

and 38-inch row spacing to \$46.80 for "usual input practices," 8-row equipment and 38-inch row spacing (Table 6).

Cotton

Costs per acre range from \$270.83 for "usual input practices" with 8-row equipment to \$318.24 for "high input practices" with 4-row equipment.

Returns per acre for cotton yielding 550 pounds of lint selling for 52 cents/pound and 853 pounds of seed selling at five cents/pound range from \$3.47 for "high input

practices" with 4-row equipment to \$52.28 for "usual input practices" with 8-row equipment.

Grain Sorghum for Grain

Costs per acre range from \$72.05 for "usual input practices" with 4-row equipment to \$63.07 for "usual input practices" with 8-row equip-

ment. Returns per acre for grain sorghum yielding 38 bushels and selling for \$3.25 per bushel range

from \$21.53 for "usual input practices" with 4-row equipment to \$30.72 for "usual input practices" with 8-row equipment.

Wheat

Total specified costs per acre (usual input practices) for produc-

ing wheat are \$77.82. A 30-bushel per acre wheat crop selling at \$3.00

per bushel yields an estimated net return of \$12.18.

Variation of Yield and Output Price

Other combinations of yields and prices result in significantly different net returns; for example, an 18-bushel bean crop produced

with 4-row equipment on 38-inch row spacing with "usual input practices" will result in an estimated net return of -\$7.55 per acre

if beans sell for \$4.50, a net return of \$28.45 if beans sell for \$6.50 (Table 6).

LIMITATIONS

Costs presented are labeled "Total Specified Costs". Charges for land, management, and general farm overhead are not included in the budgets and must be subtracted from the estimated net returns to obtain approximate returns above all production costs.

Estimated 1977 charges⁴ for land, management and general farm overhead are:

	Land	Management	Overhead	Total
Cotton	\$28.57	\$17.05	\$8.66	\$54.28
Soybeans	27.55	9.35	5.80	42.70
Grain Sorghum	24.67	7.12	6.10	37.87
Wheat	17.17	3.98	4.83	25.98

⁴Averages based on latest available figures.

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*Cost of Production Estimates
for the Black Belt
of Northeast Mississippi, 1978*

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Table 2. Estimated materials prices, Mississippi, 1978.

Item	Unit ^{1/}	Estimated price Dollars
DEFOLIANT:		
Def	lb	2.05
Folex	lb	2.05
HERBICIDES:		
Atrazine	lb	3.18
Basagran	lb	14.00
Basalin	lb	5.50
Bladex	lb	2.85
Butoxone	lb	4.00
Caparol (WP)	lb	4.00
Caparol + MSMA	pt	1.50
Cobex	lb	10.00
Cotoran	lb	5.79
Cotoran + MSMA	pt	2.00
Dinitro	lb	2.28
DSMA (SP)	lb	1.75
Dyanap	pt	.90
Karmex (WP)	lb	2.75
Lasso	lb	3.75
Lorox	lb	7.50
MSMA	lb	.98
MSMA + Surfactant	pt	.81
Ordram	lb	3.20
Paraquat	lb	17.05
Probe	lb	7.50
Propanil	lb	2.25
Propazine	lb	2.65
Prowl	lb	5.63
Roundup	lb	18.35
Sencor	lb	6.88
Surfactant	pt	.56
Tolban	lb	5.69
Treflan	lb	5.85
2, 4-D	lb	1.99
Zorial	lb	7.59
FUNGICIDES:		
Soil Treater XXX	lb	1.45
Stauffer 30-30	lb	1.45
INSECTICIDES:		
Ambush	lb	58.00
Azodrin	lb	6.90
Bidrin	lb	4.22
Cygon 400	lb	5.98
EPN + Methyl Parathion	pt	2.06
Guthion	lb	4.85
Lannate	lb	9.06
Lorsban 4E	lb	6.00
Methyl Parathion	lb	1.65
Orthene 75S	lb	5.95
Sevin	lb	1.96
Toxaphene	lb	.72
Toxaphene + Methyl Parathion	pt	1.15
Temik	lb	4.85

^{1/} Expressed on a per pound active basis except for materials priced in volume and fungicides which are priced on a basis of formulated material.

Table 3. Estimated seed, fertilizer, and lime prices, Mississippi, 1978.

Item	Unit	Estimated price Dollars
Seed:		
Cotton, double treated	lb.	.22
Cotton, triple treated	lb.	.27
Grain sorghum	lb.	.50
Soybean	lb.	.17
Wheat	lb.	.07
Rice	lb.	.18
Fertilizer:		
0-24-24	cwt.	6.83
8-24-24	cwt.	7.75
13-13-13	cwt.	6.20
13-13-13 + Boron	cwt.	6.55
Ammonium nitrate (33%)	cwt.	6.70
Anhydrous ammonia (82%)	cwt.	7.00
Urea, solid (45%)	cwt.	7.45
Urea, liquid (32%)	cwt.	5.20
Lime		
Delta	ton	14.00
Northern Brown Loam	ton	15.00
Sand Clay Hills	ton	8.75
Black Belt	ton	8.75
Potash	cwt.	4.75

Table 4. Summary of aerial application costs, Mississippi, 1978.

Application activity	Cost per acre Dollars	Cost per 100 pounds Dollars
Fertilizer	--	2.50
Insecticide	1.00	--
Lannate	1.65	--
Defoliant	1.65	--
Seed	--	2.50
Herbicide	1.65	--
2, 4-D	3.50	--
2, 4, 5-T	3.50	--
Propanil	3.00	--
Ordram	2.00	--

Table 5. Summary of estimated cost per acre for soybeans, cotton, grain sorghum and wheat, Black Belt of Northeast Mississippi, 1978.

Crop description	Row space inches	Equipment size	Tractor		Equipment		Labor cost	Material cost	Misc. cost	Total specified cost	Interest on operating capital	Total cost
			Direct cost	Fixed cost	Direct cost	Fixed cost						
-----dollars-----												
Soybeans- usual input practices	38	4-row	8.10	10.36	7.21	12.32	8.06	34.52	5.15	85.71	3.01	88.72
	38	6-row	5.95	8.54	7.26	12.42	6.01	34.52	5.15	79.85	2.81	82.66
	38	8-row	5.40	7.36	7.31	12.56	4.69	34.52	5.15	76.99	2.71	79.70
	30	6-row	6.63	9.52	7.58	13.06	6.73	35.16	5.15	83.83	2.89	86.73
	30	8-row	6.07	8.27	7.67	13.25	5.27	35.16	5.15	80.84	2.80	83.64
Soybeans- high input practices	38	4-row	10.21	13.07	9.19	15.49	10.27	41.93	5.15	105.31	4.28	109.59
	38	6-row	7.81	11.21	9.44	15.97	8.05	41.93	5.15	99.57	4.06	103.63
	38	8-row	7.40	10.09	9.45	16.03	6.50	41.93	5.15	96.56	3.96	100.52
	30	6-row	8.69	12.48	9.87	16.78	8.95	43.78	5.15	105.70	4.21	109.91
	30	8-row	8.22	11.20	9.90	16.85	7.19	43.78	5.15	102.29	4.11	106.40
Cotton- usual input practices	38	4-row	11.59	14.83	31.80	53.62	18.44	93.92	58.62	282.82	5.95	288.77
	38	6-row	8.64	12.40	31.68	53.41	15.75	93.92	58.62	274.42	5.66	280.08
	38	8-row	8.04	10.95	31.74	53.60	13.96	93.92	58.62	270.83	5.54	276.37
Cotton- high input practices	38	4-row	14.77	18.90	34.63	58.05	21.78	110.49	59.62	318.24	6.94	325.18
	38	6-row	11.09	15.93	34.63	58.01	18.45	110.49	59.62	308.22	6.59	314.82
	38	8-row	10.64	14.50	34.73	58.30	16.42	110.49	59.62	304.70	6.49	311.19
Grain sorghum- for grain	38	4-row	6.49	8.30	5.79	10.01	7.00	28.37	32.31	98.27	1.62	99.89
	38	6-row	4.40	6.32	5.68	9.81	4.88	28.37	32.31	91.77	1.46	93.24
	38	8-row	3.98	5.43	5.65	9.78	3.76	28.37	32.31	89.29	1.40	90.69
Wheat	--	115-150 DBHP	2.45	3.34	6.07	10.07	2.70	43.75	6.89	75.26	2.56	77.82

Table 6. Estimated per acre returns to land, management, and farm overhead, for soybeans, cotton, grain sorghum and wheat, by equipment size and row space, for specified yields and prices, Black Belt of Northeast Mississippi, 1978.

Crop description	Row space inches	Equipment size	Yield	Price levels ^{1/}		
				Low	Expected	High
				-----dollars-----		
Soybeans-usual input practices	38	4-row	18 bu.	-7.55	10.45	28.45
			23 bu.	14.78	37.78	60.78
			32 bu.	54.98	86.98	118.98
Soybeans-usual input practices	38	6-row	18 bu.	-1.49	16.51	34.51
			23 bu.	20.84	43.84	66.84
			32 bu.	61.04	93.04	125.04
Soybeans-usual input practices	38	8-row	18 bu.	1.46	19.46	37.46
			23 bu.	23.80	46.80	69.80
			32 bu.	63.99	95.99	127.99
Soybeans-usual input practices	30	6-row	18 bu.	-5.56	12.44	30.44
			23 bu.	16.77	39.77	62.77
			32 bu.	56.97	88.97	120.97
Soybeans-usual input practices	30	8-row	18 bu.	-2.47	15.53	33.53
			23 bu.	19.86	42.86	65.86
			32 bu.	60.05	92.05	124.05
Soybeans-high input practices	38	4-row	18 bu.	-28.42	-10.42	7.58
			23 bu.	-6.09	16.91	39.91
			32 bu.	34.11	66.11	98.11
Soybeans-high input practices	38	6-row	18 bu.	-22.46	-4.46	13.54
			23 bu.	-.13	22.87	45.87
			32 bu.	40.07	72.07	104.07
Soybeans-high input practices	38	8-row	18 bu.	-19.35	-1.35	16.65
			23 bu.	2.98	25.98	48.98
			32 bu.	43.17	75.17	107.17
Soybeans-high input practices	30	6-row	18 bu.	-28.74	-10.74	7.26
			23 bu.	-6.41	16.59	39.59
			32 bu.	33.78	65.78	97.78
Soybeans-high input practices	30	8-row	18 bu.	-25.23	-7.23	10.77
			23 bu.	-2.90	20.10	43.10
			32 bu.	37.29	69.29	101.29
Cotton-usual input practices	38	4-row	500 lbs.lint	-28.15	14.60	57.35
			550 lbs.lint	-7.15	39.88	86.91
			600 lbs.lint	13.81	65.11	116.41

(continued)

Table 6. (continued)

Crop description	Row space inches	Equipment size	Yield	Price levels ^{1/}		
				Low	Expected	High
				-----dollars-----		
Cotton - usual input practices	38	6-row	500 lbs. lint	-19.46	23.29	66.04
			550 lbs. lint	1.54	48.57	95.60
			600 lbs. lint	22.49	73.79	125.09
Cotton - usual input practices	38	8-row	500 lbs. lint	-15.74	27.01	69.76
			550 lbs. lint	5.25	52.28	99.31
			600 lbs. lint	26.21	77.51	128.81
Cotton - high input practices	38	4-row	500 lbs. lint	-64.55	-21.80	20.95
			550 lbs. lint	-43.56	3.47	50.50
			600 lbs. lint	-22.60	28.70	80.00
Cotton - high input practices	38	6-row	500 lbs. lint	-54.19	-11.44	31.31
			550 lbs. lint	-33.20	13.83	60.86
			600 lbs. lint	-12.24	39.06	90.36
Cotton - high input practices	38	8-row	500 lbs. lint	-50.56	-7.81	34.94
			550 lbs. lint	-29.57	17.46	64.49
			600 lbs. lint	-8.61	42.69	93.99
Grain sorghum - usual input practices	38	4-row	30 cwt.	-18.93	3.57	26.07
			38 cwt.	-4.89	23.61	52.11
			46 cwt.	9.15	43.65	78.15
Grain sorghum - usual input practices	38	6-row	30 cwt.	-12.28	10.22	32.72
			38 cwt.	1.76	30.26	58.76
			46 cwt.	15.80	50.30	84.80
Grain sorghum - usual input practices	38	8-row	30 cwt.	-9.73	12.77	35.27
			38 cwt.	4.31	32.81	61.31
			46 cwt.	18.35	52.85	87.35
Wheat - usual input practices	==	115-150 DBHP	25 bu.	-15.17	-2.67	9.83
			30 bu.	-2.82	12.18	27.18
			35 bu.	9.53	27.03	44.53

^{1/}Cotton: \$.45, \$.52, and \$.59/lb. for low, expected, and high lint prices, respectively. Price of cottonseed was assumed to be \$.04, \$.05, and \$.06/lb. when lint prices were \$.45, \$.52, and \$.59, respectively. Soybeans: \$4.50, \$5.50, and \$6.50/bu. for low, expected, and high price levels, respectively. Wheat: \$2.50, \$3.00, and \$3.50/bu. for low, expected, and high price levels, respectively. Grain sorghum: \$2.50, \$3.25, and \$4.00/bu. for low, expected, and high price levels, respectively.

TABLE 7. ESTIMATED COST PER ACRE, SOYBEANS, USUAL INPUT PRACTICES, 4 ROW EQUIPMENT, 38 INCH ROW SPACING, BLACK BELT OF NORTHEAST MISSISSIPPI, 1978.

OPERATION DESCRIPTION	MONTH	-----TRACTOR-----		-----EQUIPMENT-----		LABOR COST	MATERIAL COST	MISC COST	TOTAL COST
		DIRECT COST	FIXED COST	DIRECT COST	FIXED COST				
-----DOLLARS-----									
APPLY LIME 41/4	11	.00	.00	.00	.00	.00	.00	4.38	4.38
CHISEL PLOW 12 FT	3	.95	1.21	.15	.33	.80	.00	.00	3.43
CHISEL PLOW 12 FT	3	.95	1.21	.15	.33	.80	.00	.00	3.43
DISK HARROW 14 FT	3	.72	.93	.41	.74	.61	.00	.00	3.41
DISK + INCOR 14 FT	4	.72	.93	.45	.82	.41	5.85	.00	9.38
APPLY FERT	4	.31	.40	.52	.88	.26	17.07	.00	19.46
FIELD CULT 12 FT	4	.63	.81	.24	.53	.53	.00	.00	2.74
SECTION HARROW	5	.44	.56	.03	.06	.37	.00	.00	1.47
PLANT	5	.69	.89	.34	.75	1.17	9.35	.00	13.18
CULTIVATE EARLY	6	.79	1.01	.21	.40	.46	.00	.00	3.07
CULTIVATE LATE	6	.63	.81	.17	.32	.53	.00	.00	2.46
SPRAY HCLEAR 14 ROW	6	.00	.00	.11	.15	.05	.88	.00	1.19
CULT + POST LATE	7	.88	1.13	.28	.53	.74	1.37	.00	4.93
COMBINE 20 FT	10	.00	.00	4.00	6.19	.61	.00	.00	10.80
GRAIN CART	10	.38	.48	.15	.29	.32	.00	.00	1.62
HAUL	10	.00	.00	.00	.00	.00	.00	.78	.78
TOTAL SPECIFIED COSTS		8.10	10.36	7.21	12.32	8.06	34.52	5.15	85.71
INTEREST ON OPERATING CAPITAL									3.01
TOTAL SPECIFIED COSTS INCLUDING INTEREST ON OPERATING CAPITAL									88.72

TABLE 8. ESTIMATED COST AND NET RETURNS PER ACRE
 SOYBEANS, USUAL INPUT PRACTICES, 4 ROW EQUIPMENT, 38 INCH ROW SPACING,
 BLACK BELT OF NORTHEAST MISSISSIPPI, 1978.

ITEM	UNIT	PRICE DOLLARS	QUANTITY	AMOUNT DOLLARS
INCOME				
SOYBEANS	BU	5.50000	23.00	126.50
TOTAL INCOME				126.50
DIRECT EXPENSES				
COMMON LABOR	HOUR	2.65	.22	.58
OPERATOR LABOR	HOUR	2.65	2.57	6.81
SPECIAL LABOR	HOUR	2.65	.25	.66
APPLY LIME X1/4	TON	8.75	.50	4.38
TREFLAN	LB	5.85	1.00	5.85
FERT 0-24-24	CWT	6.83	2.50	17.07
SEED	LB	.17	55.00	9.35
BASAGRAN	LB	14.00	.06	.88
DINITRO	LB	2.28	.60	1.37
SPECIAL EQUIPMENT	ACRE	4.11	1.00	4.11
EQUIPMENT	ACRE	3.10	1.00	3.10
TRACTOR	ACRE	8.10	1.00	8.10
INT ON OP CAP	ACRE	3.01	1.00	3.01
HAUL	BU	.03	23.00	.78
TOTAL DIRECT EXPENSE				66.04
RETURNS ABOVE DIRECT EXPENSES				60.46
FIXED EXPENSES				
SPECIAL EQUIPMENT	ACRE	6.34	1.00	6.34
EQUIPMENT	ACRE	5.98	1.00	5.98
TRACTOR	ACRE	10.36	1.00	10.36
TOTAL FIXED EXPENSE				22.68
TOTAL SPECIFIED EXPENSES				88.72
NET RETURN ABOVE SPECIFIED EXPENSES				37.78

TABLE 9. ESTIMATED COST PER ACRE, SOYBEANS, USUAL INPUT PRACTICES, 6 ROW EQUIPMENT, 38 INCH ROW SPACING, BLACK BELT OF NORTHEAST MISSISSIPPI, 1978.

OPERATION DESCRIPTION	MONTH	TRACTOR		EQUIPMENT		LABOR COST	MATERIAL COST	MISC COST	TOTAL COST
		DIRECT COST	FIXED COST	DIRECT COST	FIXED COST				
APPLY LIME X1/4	11	.00	.00	.00	.00	.00	.00	4.38	4.38
CHISEL PLOW 16 FT	3	.70	1.01	.18	.39	.58	.00	.00	2.86
CHISEL PLOW 16 FT	3	.70	1.01	.18	.39	.58	.00	.00	2.86
DISK HARROW 21 FT	3	.45	.64	.40	.73	.37	.00	.00	2.59
DISK + INCOB 21 FT	4	.57	.82	.57	1.03	.48	5.85	.00	9.33
APPLY FERT	4	.32	.46	.52	.88	.76	17.07	.00	19.52
FIELD CULT 21 FT	4	.32	.46	.23	.51	.76	.00	.00	1.78
SECTION HARROW	5	.32	.46	.03	.76	.76	.00	.00	1.13
PLANT	5	.49	.71	.32	.69	.82	9.35	.00	12.37
CULTIVATE EARLY	6	.67	.96	.22	.42	.56	.00	.00	2.83
CULTIVATE LATE	6	.45	.64	.14	.28	.37	.00	.00	1.88
SPRAY HCLEAR 14 ROW	6	.00	.00	.11	.15	.05	.88	.00	1.19
CULT + POST LATE	7	.57	.82	.21	.41	.48	1.37	.00	3.86
COMBINE 20 FT	10	.00	.00	4.00	6.19	.41	.00	.00	10.80
GRAIN CART	10	.38	.55	.15	.29	.32	.00	.00	1.69
HAUL	10	.00	.00	.00	.00	.00	.00	.78	.78
TOTAL SPECIFIED COSTS		5.95	8.54	7.26	12.42	4.01	34.52	5.15	79.85
INTEREST ON OPERATING CAPITAL									2.81
TOTAL SPECIFIED COSTS INCLUDING INTEREST ON OPERATING CAPITAL									82.66

TABLE 10. ESTIMATED COST AND NET RETURNS PER ACRE
 SOYBEANS, USUAL INPUT PRACTICES, 6 ROW EQUIPMENT, 38 INCH ROW SPACING,
 BLACK BELT OF NORTHEAST MISSISSIPPI, 1978.

ITEM	UNIT	PRICE DOLLARS	QUANTITY	AMOUNT DOLLARS
INCOME				
SOYBEANS	BU	5.5000	23.00	126.50
TOTAL INCOME				126.50
DIRECT EXPENSES				
COMMON LABOR	HOUR	2.65	.15	.41
OPERATOR LABOR	HOUR	2.65	1.86	4.94
SPECIAL LABOR	HOUR	2.65	.25	.66
APPLY LIME X1/4	TON	8.75	.50	4.38
TREFLAN	LB	5.85	1.00	5.85
FERT 0-24-24	CWT	6.83	2.50	17.07
SEED	LB	.17	55.00	9.35
BASAGRAN	LB	14.00	.06	.88
DINITRO	LB	2.28	.60	1.37
SPECIAL EQUIPMENT	ACRE	4.11	1.00	4.11
EQUIPMENT	ACRE	3.15	1.00	3.15
TRACTOR	ACRE	5.95	1.00	5.95
INT ON OP CAP	ACRE	2.81	1.00	2.81
HAUL	BU	.03	23.00	.78
TOTAL DIRECT EXPENSE				61.70
RETURNS ABOVE DIRECT EXPENSES				64.80
FIXED EXPENSES				
SPECIAL EQUIPMENT	ACRE	6.34	1.00	6.34
EQUIPMENT	ACRE	6.08	1.00	6.08
TRACTOR	ACRE	8.54	1.00	8.54
TOTAL FIXED EXPENSE				20.96
TOTAL SPECIFIED EXPENSES				82.66
NET RETURN ABOVE SPECIFIED EXPENSES				43.84

TABLE 11. ESTIMATED COST PER ACRE, SOYBEANS, USUAL INPUT PRACTICES, 0 ROW EQUIPMENT, 38 INCH ROW SPACING, BLACK BELT OF NORTHEAST MISSISSIPPI, 1970.

OPERATION DESCRIPTION	MONTH	---TRACTOR---		---EQUIPMENT---		LABOR COST	MATERIAL COST	MISC COST	TOTAL COST
		DIRECT COST	FIXED COST	DIRECT COST	FIXED COST				
-----DOLLARS-----									
APPLY LIME X1/4	11	.00	.00	.00	.00	.00	.00	4.38	4.38
CHISEL PLOW 21 FT	3	.54	.73	.18	.39	.37	.00	.00	2.21
CHISEL PLOW 21 FT	3	.54	.73	.18	.39	.37	.00	.00	2.21
DISK HARROW 28 FT	3	.38	.52	.40	.73	.26	.00	.00	2.30
DISK + INCOR 28 FT	4	.50	.68	.55	1.00	.34	5.25	.00	8.92
APPLY FERT	4	.38	.52	.52	.88	.26	17.07	.00	19.64
FIELD CULT 21 FT	4	.38	.52	.23	.51	.26	.00	.00	1.91
SECTION HARROW	5	.31	.42	.03	.07	.21	.00	.00	1.04
PLANT	5	.42	.57	.30	.66	.58	9.35	.00	11.89
CULTIVATE EARLY	6	.61	.84	.26	.51	.42	.00	.00	2.64
CULTIVATE LATE	6	.38	.52	.16	.32	.26	.00	.00	1.65
SPRAY W/CLEAR 14 ROW	6	.00	.00	.11	.15	.05	.88	.00	1.19
CULT + POST LATE	7	.50	.68	.24	.47	.34	1.37	.00	3.60
COMBINE 20 FT	10	.00	.00	4.00	6.19	.61	.00	.00	10.80
GRAIN CART	10	.46	.63	.15	.29	.32	.00	.00	1.84
HAUL	10	.00	.00	.00	.00	.00	.00	.78	.78
TOTAL SPECIFIED COSTS		5.40	7.36	7.31	12.56	4.69	34.52	5.15	76.99
INTEREST ON OPERATING CAPITAL									2.71
TOTAL SPECIFIED COSTS INCLUDING INTEREST ON OPERATING CAPITAL									79.70

TABLE 12. ESTIMATED COST AND NET RETURNS PER ACRE
 SOYBEANS, USUAL INPUT PRACTICES, 8 ROW EQUIPMENT, 38 INCH ROW SPACING,
 BLACK BELT OF NORTHEAST MISSISSIPPI, 1978.

ITEM	UNIT	PRICE DOLLARS	QUANTITY	AMOUNT DOLLARS
INCOME				
SOYBEANS	BU	5.5000	23.00	126.50
TOTAL INCOME				126.50
DIRECT EXPENSES				
COMMON LABOR	HOUR	2.65	.11	.29
OPERATOR LABOR	HOUR	2.65	1.41	3.74
SPECIAL LABOR	HOUR	2.65	.25	.66
APPLY LIME X1/4	TON	8.75	.50	4.38
TREFLAM	LB	5.85	1.00	5.85
FERT 0-24-24	CWT	6.83	2.50	17.07
SEED	LB	.17	55.00	9.35
BASAGRAN	LB	14.00	.06	.88
DINITRO	LB	2.28	.60	1.37
SPECIAL EQUIPMENT	ACRE	4.11	1.00	4.11
EQUIPMENT	ACRE	3.20	1.00	3.20
TRACTOR	ACRE	5.40	1.00	5.40
INT ON OP CAP	ACRE	2.71	1.00	2.71
HAUL	BU	.03	23.00	.78
TOTAL DIRECT EXPENSE				59.78
RETURNS ABOVE DIRECT EXPENSES				66.72
FIXED EXPENSES				
SPECIAL EQUIPMENT	ACRE	6.34	1.00	6.34
EQUIPMENT	ACRE	6.22	1.00	6.22
TRACTOR	ACRE	7.36	1.00	7.36
TOTAL FIXED EXPENSE				19.92
TOTAL SPECIFIED EXPENSES				79.70
NET RETURN ABOVE SPECIFIED EXPENSES				46.80

TABLE 13 . ESTIMATED COST PER ACRE, SOYBEANS, USUAL INPUT PRACTICES, 6 ROW EQUIPMENT, 30 INCH ROW SPACING, BLACK BELT OF NORTHEAST MISSISSIPPI, 1978.

OPERATION DESCRIPTION	MONTH	TRACTOR		EQUIPMENT		LABOR COST	MATERIAL COST	MISC COST	TOTAL COST
		"DIRECT" COST	FIXED COST	DIRECT COST	FIXED COST				
-----DOLLARS-----									
APPLY LIME X1/4	11	.00	.00	.00	.00	.00	.00	4.38	4.38
CHISEL PLOW 16 FT	3	.70	1.01	.18	.39	.58	.00	.00	2.86
CHISEL PLOW 16 FT	3	.70	1.01	.18	.39	.58	.00	.00	2.86
DISK HARROW 21 FT	3	.45	.64	.40	.73	.37	.00	.00	2.59
DISK + INCOR 21 FT	4	.57	.82	.57	1.03	.48	5.85	.00	9.33
APPLY FERT	4	.32	.46	.52	.68	.26	17.07	.00	19.52
FIELD CULT 21 FT	4	.32	.46	.23	.51	.26	.00	.00	1.78
SECTION HARROW	5	.26	.37	.03	.07	.21	.00	.00	.93
PLANT	5	.67	.96	.43	.95	1.11	9.35	.00	13.46
CULTIVATE EARLY	6	.89	1.29	.29	.55	.74	.00	.00	3.76
CULTIVATE LATE	6	.61	.87	.20	.38	.50	.00	.00	2.56
SPRAY H/CLEAR 14 ROW	6	.00	.00	.11	.16	.05	1.15	.00	1.47
CULT + POST LATE	7	.77	1.10	.29	.55	.44	1.73	.00	5.07
COMBINE 23 FT	10	.00	.00	4.00	6.19	.61	.00	.00	10.80
GRAIN CART	10	.38	.55	.15	.29	.32	.00	.00	1.49
HAUL	10	.00	.00	.00	.00	.00	.00	.78	.78
TOTAL SPECIFIED COSTS		6.63	9.52	7.58	13.06	4.73	35.16	5.15	83.83
INTEREST ON OPERATING CAPITAL									2.89
TOTAL SPECIFIED COSTS INCLUDING INTEREST ON OPERATING CAPITAL									86.73

TABLE 14. ESTIMATED COST AND NET RETURNS PER ACRE
 SOYBEANS, USUAL INPUT PRACTICES, 6 ROW EQUIPMENT, 30 INCH ROW SPACING,
 BLACK BELT OF NORTHEAST MISSISSIPPI, 1978.

ITEM	UNIT	PRICE DOLLARS	QUANTITY	AMOUNT DOLLARS
INCOME				
SOYBEANS	BU	5.50000	23.00	126.50
TOTAL INCOME				126.50
DIRECT EXPENSES				
COMMON LABOR	HOUR	2.65	.21	.55
OPERATOR LABOR	HOUR	2.65	2.08	5.51
SPECIAL LABOR	HOUR	2.65	.25	.66
APPLY LIME X1/4	TON	8.75	.50	4.38
TREFLAN	LB	5.85	1.00	5.85
FERT 0-24-24	CWT	6.83	2.50	17.07
SEED	LB	.17	55.00	9.35
BASAGRAN	LB	14.00	.08	1.15
DINITRO	LB	2.28	.76	1.73
SPECIAL EQUIPMENT	ACRE	4.11	1.00	4.11
EQUIPMENT	ACRE	3.47	1.00	3.47
TRACTOR	ACRE	6.63	1.00	6.63
INT ON OP CAP	ACRE	2.89	1.00	2.89
HAUL	BU	.03	23.00	.78
TOTAL DIRECT EXPENSE				64.15
RETURNS ABOVE DIRECT EXPENSES				62.35
FIXED EXPENSES				
SPECIAL EQUIPMENT	ACRE	6.34	1.00	6.34
EQUIPMENT	ACRE	6.72	1.00	6.72
TRACTOR	ACRE	9.52	1.00	9.52
TOTAL FIXED EXPENSE				22.58
TOTAL SPECIFIED EXPENSES				86.73
NET RETURN ABOVE SPECIFIED EXPENSES				39.77

TABLE 15 .ESTIMATED COST PER ACRE, SOYBEANS, USUAL INPUT PRACTICES, 8 ROW EQUIPMENT, 30 INCH ROW SPACING, BLACK BELT OF NORTHEAST MISSISSIPPI, 1978.

OPERATION DESCRIPTION	MONTH	-----TRACTOR-----		-----EQUIPMENT-----		LABOR COST	MATERIAL COST	MISC COST	TOTAL COST
		DIRECT COST	FIXED COST	DIRECT COST	FIXED COST				
-----DOLLARS-----									
APPLY LIME X1/4	11	.00	.00	.00	.00	.00	.00	4.38	4.38
CHISEL PLOW 21 FT	3	.54	.73	.18	.39	.37	.00	.00	2.21
CHISEL PLOW 21 FT	3	.54	.73	.18	.39	.37	.00	.00	2.21
DISK HARROW 28 FT	3	.38	.52	.40	.73	.26	.00	.00	2.30
DISK + INCOR 28 FT	4	.50	.68	.55	1.00	.34	5.85	.00	8.92
APPLY FERT	4	.38	.52	.52	.88	.26	17.07	.00	19.64
FIELD CULT 21 FT	4	.38	.52	.23	.51	.26	.00	.00	1.91
SECTION HARROW	5	.31	.42	.03	.07	.21	.00	.00	1.04
PLANT	5	.59	.80	.42	.73	.82	9.35	.00	12.91
CULTIVATE EARLY	6	.85	1.10	.35	.67	.56	.00	.00	3.48
CULTIVATE LATE	6	.54	.73	.23	.44	.37	.00	.00	2.31
SPRAY W/CLEAR 14 ROW	6	.00	.00	.11	.15	.05	1.15	.00	1.47
CULT + POST LATE	7	.65	.89	.32	.61	.45	1.73	.00	4.65
COMBINE 20 FT	10	.00	.00	4.00	6.19	.61	.00	.00	10.80
GRAIN CART	10	.46	.63	.15	.29	.32	.00	.00	1.84
HAUL	10	.00	.00	.00	.00	.00	.00	.78	.78
TOTAL SPECIFIED COSTS		6.07	8.27	7.67	13.25	5.27	35.16	5.15	80.84
INTEREST ON OPERATING CAPITAL									2.80
TOTAL SPECIFIED COSTS INCLUDING INTEREST ON OPERATING CAPITAL									83.64

TABLE 16. ESTIMATED COST AND NET RETURNS PER ACRE
 SOYBEANS, USUAL INPUT PRACTICES, 8 ROW EQUIPMENT, 30 INCH ROW SPACING,
 BLACK BELT OF NORTHEAST MISSISSIPPI, 1978.

ITEM	UNIT	PRICE DOLLARS	QUANTITY	AMOUNT DOLLARS
INCOME				
SOYBEANS	BU	5.50000	23.00	126.50
TOTAL INCOME				126.50
DIRECT EXPENSES				
COMMON LABOR	HOUR	2.65	.15	.41
OPERATOR LABOR	HOUR	2.65	1.58	4.20
SPECIAL LABOR	HOUR	2.65	.25	.66
APPLY LIME X1/4	TON	8.75	.50	4.38
TREFLAN	LB	5.85	1.00	5.85
FERT 0-24-24	CWT	6.83	2.50	17.07
SEED	LB	.17	55.00	9.35
BASAGRAN	LB	14.00	.08	1.15
DINITRO	LB	2.28	.76	1.73
SPECIAL EQUIPMENT	ACRE	4.11	1.00	4.11
EQUIPMENT	ACRE	3.56	1.00	3.56
TRACTOR	ACRE	6.07	1.00	6.07
INT ON OP CAP	ACRE	2.80	1.00	2.80
HAUL	BU	.03	23.00	.78
TOTAL DIRECT EXPENSE				62.12
RETURNS ABOVE DIRECT EXPENSES				64.38
FIXED EXPENSES				
SPECIAL EQUIPMENT	ACRE	6.34	1.00	6.34
EQUIPMENT	ACRE	6.91	1.00	6.91
TRACTOR	ACRE	8.27	1.00	8.27
TOTAL FIXED EXPENSE				21.52
TOTAL SPECIFIED EXPENSES				83.64
NET RETURN ABOVE SPECIFIED EXPENSES				42.86

TABLE 17 .ESTIMATED COST PER ACRE, SOYBEANS, HIGH INPUT PRACTICES, 4 ROW EQUIPMENT, 38 INCH ROW SPACING, BLACK BELT OF NORTHEAST MISSISSIPPI, 1978.

OPERATION DESCRIPTION	MONTH	TRACTOR		EQUIPMENT		LABOR COST	MATERIAL COST	MISC COST	TOTAL COST
		DIRECT COST	FIXED COST	DIRECT COST	FIXED COST				
DOLLARS									
APPLY LIME 1/4	11	.00	.00	.00	.00	.00	.00	4.38	4.38
APPLY FERT	11	.31	.40	.52	.88	.26	17.07	.00	19.46
DEEP CHISEL 7 SHANK	11	1.42	1.81	.93	1.56	1.19	.00	.00	6.91
CHISEL PLOW 12 FT	11	.95	1.21	.15	.33	.80	.00	.00	3.43
CHISEL PLOW 12 FT	3	.95	1.21	.15	.33	.80	.00	.00	3.43
DISK HARROW 14 FT	3	.72	.93	.41	.74	.61	.00	.00	3.41
DISK + INCOR 14 FT	4	.72	.93	.45	.82	.61	5.85	.00	9.38
FIELD CULT 12 FT	4	.63	.81	.24	.53	.53	.00	.00	2.74
SECTION HARROW	5	.44	.56	.03	.06	.37	.00	.00	1.47
PLANT + PRE	5	.76	.98	.45	.99	1.28	10.72	.00	15.18
SPRAY HCLEAR 14 ROW	5	.00	.00	.44	.60	.21	3.42	.00	4.67
CULTIVATE EARLY	6	.79	1.01	.21	.40	.66	.00	.00	3.07
CULTIVATE LATE X2	6	1.26	1.61	.34	.64	1.06	.00	.00	4.91
SPRAY HCLEAR 14 ROW	6	.00	.00	.44	.60	.21	3.50	.00	4.75
CULT + POST LATE	7	.88	1.13	.28	.53	.74	1.37	.00	4.93
COMBINE 20 FT	10	.00	.00	4.00	6.19	.61	.00	.00	10.80
GRAIN CART	10	.38	.48	.15	.29	.32	.00	.00	1.62
HAUL	10	.00	.00	.00	.00	.00	.00	.78	.78
TOTAL SPECIFIED COSTS		10.21	13.07	9.19	15.49	10.27	41.93	5.15	105.31
INTEREST ON OPERATING CAPITAL									4.28
TOTAL SPECIFIED COSTS INCLUDING INTEREST ON OPERATING CAPITAL									109.59

TABLE 18. ESTIMATED COST AND NET RETURNS PER ACRE
 SOYBEANS, HIGH INPUT PRACTICES, 4 ROW EQUIPMENT, 38 INCH ROW SPACING,
 BLACK BELT OF NORTHEAST MISSISSIPPI, 1978.

ITEM	UNIT	PRICE DOLLARS	QUANTITY	AMOUNT DOLLARS
INCOME				
SOYBEANS	BU	5.50000	23.00	126.50
TOTAL INCOME				126.50
DIRECT EXPENSES				
COMMON LABOR	HOUR	2.65	.24	.64
OPERATOR LABOR	HOUR	2.65	3.24	8.59
SPECIAL LABOR	HOUR	2.65	.39	1.03
APPLY LIME X1/4	TON	8.75	.50	4.38
FERT 0-24-24	CWT	6.83	2.50	17.07
TREFLAN	LB	5.85	1.00	5.85
DINITRO	LB	2.28	2.70	6.16
SEED	LB	.17	55.00	9.35
BASAGRAN	LB	14.00	.25	3.50
SPECIAL EQUIPMENT	ACRE	4.88	1.00	4.88
EQUIPMENT	ACRE	4.31	1.00	4.31
TRACTOR	ACRE	10.21	1.00	10.21
INT ON OP CAP	ACRE	4.28	1.00	4.28
HAUL	BU	.03	23.00	.78
TOTAL DIRECT EXPENSE				81.03
RETURNS ABOVE DIRECT EXPENSES				45.47
FIXED EXPENSES				
SPECIAL EQUIPMENT	ACRE	7.39	1.00	7.39
EQUIPMENT	ACRE	8.10	1.00	8.10
TRACTOR	ACRE	13.07	1.00	13.07
TOTAL FIXED EXPENSE				28.56
TOTAL SPECIFIED EXPENSES				109.59
NET RETURN ABOVE SPECIFIED EXPENSES				16.91

TABLE 19 .ESTIMATED COST PER ACRE, SOYBEANS, HIGH INPUT PRACTICES, 6 ROW EQUIPMENT, 38 INCH ROW SPACING, BLACK BELT OF NORTHEAST MISSISSIPPI, 1978.

OPERATION DESCRIPTION	MONTH	TRACTOR		EQUIPMENT		LABOR COST	MATERIAL COST	MISC COST	TOTAL COST
		DIRECT COST	FIXED COST	DIRECT COST	FIXED COST				
-----DOLLARS-----									
APPLY LIME X1/4	11	.00	.00	.00	.00	.00	.00	4.38	4.38
APPLY FERT	11	.32	.46	.52	.88	.26	17.07	.00	19.52
DEEP CHISEL 11 SHANK	11	1.28	1.83	1.13	1.90	1.06	.00	.00	7.20
CHISEL PLOW 16 FT	11	.70	1.01	.18	.39	.58	.00	.00	2.86
CHISEL PLOW 16 FT	3	.70	1.01	.18	.39	.58	.00	.00	2.86
DISK HARROW 21 FT	3	.45	.64	.40	.73	.37	.00	.00	2.59
DISK + INCOR 21 FT	4	.57	.82	.57	1.03	.48	5.85	.00	9.33
FIELD CULT 21 FT	4	.32	.46	.23	.51	.26	.00	.00	1.78
SECTION HARROW	5	.32	.46	.03	.06	.26	.00	.00	1.13
PLANT + PRE	5	.63	.91	.46	1.01	1.05	10.72	.00	14.78
SPRAY HCLEAR 14 ROW	5	.00	.00	.44	.60	.21	3.42	.00	4.67
CULTIVATE EARLY	6	.67	.96	.22	.42	.56	.00	.00	2.83
CULTIVATE LATE X2	6	.89	1.28	.28	.56	.74	.00	.00	3.76
SPRAY HCLEAR 14 ROW	6	.00	.00	.44	.60	.21	3.50	.00	4.75
CULT + POST LATE	7	.57	.82	.21	.41	.48	1.37	.00	3.86
COMBINE 20 FT	10	.00	.00	4.00	6.19	.61	.00	.00	10.80
GRAIN CART	10	.38	.55	.15	.29	.32	.00	.00	1.69
HAUL	10	.00	.00	.00	.00	.00	.00	.78	.78
TOTAL SPECIFIED COSTS		7.81	11.21	9.44	15.97	8.05	41.93	5.15	99.57
INTEREST ON OPERATING CAPITAL									4.06
TOTAL SPECIFIED COSTS INCLUDING INTEREST ON OPERATING CAPITAL									103.63

TABLE 20. ESTIMATED COST AND NET RETURNS PER ACRE
 SOYBEANS, HIGH INPUT PRACTICES, 6 ROW EQUIPMENT, 38 INCH ROW SPACING,
 BLACK BELT OF NORTHEAST MISSISSIPPI, 1978.

ITEM	UNIT	PRICE DOLLARS	QUANTITY	AMOUNT DOLLARS
INCOME				
SOYBEANS	BU	5.50000	23.00	126.50
TOTAL INCOME				126.50
DIRECT EXPENSES				
COMMON LABOR	HOUR	2.65	.20	.52
OPERATOR LABOR	HOUR	2.65	2.45	6.49
SPECIAL LABOR	HOUR	2.65	.39	1.03
APPLY LIME X1/4	TON	8.75	.50	4.38
FERT 0-24-24	CWT	6.83	2.50	17.07
TREFLAN	LB	5.85	1.00	5.85
DINITRO	LB	2.28	2.70	6.16
SEED	LB	.17	55.00	9.35
BASAGRAN	LB	14.00	.25	3.50
SPECIAL EQUIPMENT	ACRE	4.88	1.00	4.88
EQUIPMENT	ACRE	4.56	1.00	4.56
TRACTOR	ACRE	7.81	1.00	7.81
INT ON OP CAP	ACRE	4.06	1.00	4.06
HAUL	BU	.03	23.00	.78
TOTAL DIRECT EXPENSE				76.44
RETURNS ABOVE DIRECT EXPENSES				50.06
FIXED EXPENSES				
SPECIAL EQUIPMENT	ACRE	7.39	1.00	7.39
EQUIPMENT	ACRE	8.58	1.00	8.58
TRACTOR	ACRE	11.21	1.00	11.21
TOTAL FIXED EXPENSE				27.18
TOTAL SPECIFIED EXPENSES				103.63
NET RETURN ABOVE SPECIFIED EXPENSES				22.87

TABLE 21 .ESTIMATED COST PER ACRE, SOYBEANS, HIGH INPUT PRACTICES, 8 ROW EQUIPMENT, 38 INCH ROW SPACING, BLACK BELT OF NORTHEAST MISSISSIPPI, 1978.

OPERATION DESCRIPTION	MONTH	TRACTOR		EQUIPMENT		LABOR COST	MATERIAL COST	MISC COST	TOTAL COST
		DIRECT COST	FIXED COST	DIRECT COST	FIXED COST				
-----DOLLARS-----									
APPLY LIME X1/4	11	.00	.00	.00	.00	.00	.00	4.38	4.38
APPLY FERT	11	.38	.52	.52	.88	.26	17.07	.00	19.64
DEEP CHISEL 11 SHANK	11	1.53	2.09	1.13	1.90	1.06	.00	.00	7.71
CHISEL PLOW 21 FT	11	.54	.73	.18	.39	.37	.00	.00	2.21
CHISEL PLOW 21 FT	3	.54	.73	.18	.39	.37	.00	.00	2.21
DISK HARROW 28 FT	3	.38	.52	.40	.73	.26	.00	.00	2.30
DISK + INCOR 28 FT	4	.50	.68	.55	1.00	.34	5.85	.00	8.92
FIELD CULT 21 FT	4	.38	.52	.23	.51	.76	.00	.00	1.91
SECTION HARROW	5	.31	.42	.03	.07	.21	.00	.00	1.04
PLANT + PRE	5	.51	.69	.36	.86	.70	10.72	.00	13.86
SPRAY HCLEAR 14 ROW	5	.00	.00	.44	.60	.21	3.42	.00	4.67
CULTIVATE EARLY	6	.61	.84	.26	.51	.42	.00	.00	2.64
CULTIVATE LATE X2	6	.77	1.04	.32	.64	.53	.00	.00	3.30
SPRAY HCLEAR 14 ROW	6	.00	.00	.44	.60	.21	3.50	.00	4.75
CULT + POST LATE	7	.50	.68	.24	.47	.34	1.37	.00	3.60
COMBINE 20 FT	10	.00	.00	4.00	6.19	.61	.00	.00	10.80
GRAIN CART	10	.46	.63	.15	.27	.32	.00	.00	1.84
HAUL	10	.00	.00	.00	.00	.00	.00	.78	.78
TOTAL SPECIFIED COSTS		7.40	10.09	9.45	16.03	4.50	41.93	5.15	96.56
INTEREST ON OPERATING CAPITAL									3.96
TOTAL SPECIFIED COSTS INCLUDING INTEREST ON OPERATING CAPITAL									100.52

TABLE 22. ESTIMATED COST AND NET RETURNS PER ACRE
 SOYBEANS, HIGH INPUT PRACTICES, 8 ROW EQUIPMENT, 38 INCH ROW SPACING,
 BLACK BELT OF NORTHEAST MISSISSIPPI, 1978.

ITEM	UNIT	PRICE DOLLARS	QUANTITY	AMOUNT DOLLARS
INCOME				
SOYBEANS	BU	5.50000	23.00	126.50
TOTAL INCOME				126.50
DIRECT EXPENSES				
COMMON LABOR	HOUR	2.65	.13	.35
OPERATOR LABOR	HOUR	2.65	1.93	5.12
SPECIAL LABOR	HOUR	2.65	.39	1.03
APPLY LIME X1/4	TON	8.75	.50	4.38
FERT 0-24-24 -	CWT	6.83	2.50	17.07
TREFLAN	LB	5.85	1.00	5.85
DINITRO	LB	2.28	2.70	6.16
SEED	LB	.17	55.00	9.35
BASAGRAN	LB	14.00	.25	3.50
SPECIAL EQUIPMENT	ACRE	4.88	1.00	4.88
EQUIPMENT	ACRE	4.57	1.00	4.57
TRACTOR	ACRE	7.40	1.00	7.40
INT ON OP CAP	ACRE	3.96	1.00	3.96
HAUL	BU	.03	23.00	.78
TOTAL DIRECT EXPENSE				74.41
RETURNS ABOVE DIRECT EXPENSES				52.09
FIXED EXPENSES				
SPECIAL EQUIPMENT	ACRE	7.39	1.00	7.39
EQUIPMENT	ACRE	8.64	1.00	8.64
TRACTOR	ACRE	10.09	1.00	10.09
TOTAL FIXED EXPENSE				26.11
TOTAL SPECIFIED EXPENSES				100.52
NET RETURN ABOVE SPECIFIED EXPENSES				25.98

TABLE 23 ESTIMATED COST PER ACRE, SOYBEANS, HIGH INPUT PRACTICES, 6 ROW EQUIPMENT, 30 INCH ROW SPACING, BLACK BELT OF NORTHEAST MISSISSIPPI, 1978.

OPERATION DESCRIPTION	MONTH	TRACTOR		EQUIPMENT		LABOR COST	MATERIAL COST	MISC COST	TOTAL COST
		DIRECT COST	FIXED COST	DIRECT COST	FIXED COST				
-----DOLLARS-----									
APPLY LIME X1/4	11	.00	.00	.00	.00	.00	.00	4.38	4.38
APPLY FERT	11	.32	.46	.52	.88	.26	17.07	.00	19.52
DEEP CHISEL 11 SPANK	11	1.28	1.83	1.13	1.90	1.06	.00	.00	7.20
CHISEL PLOW 16 FT	11	.70	1.01	.18	.39	.58	.00	.00	2.86
CHISEL PLOW 16 FT	3	.70	1.01	.18	.39	.58	.00	.00	2.86
DISK HARROW 21 FT	3	.45	.64	.40	.73	.37	.00	.00	2.59
DISK + INCOR 21 FT	4	.57	.82	.57	1.03	.48	5.85	.00	9.33
FIELD CULT 21 FT	4	.32	.46	.23	.51	.26	.30	.00	1.78
SECTION HARROW	5	.26	.37	.03	.07	.21	.00	.00	.93
PLANT + PRE	5	.84	1.21	.62	1.34	1.40	11.08	.00	16.49
SPRAY HCLEAR 14 ROW	5	.00	.00	.44	.60	.21	3.42	.00	4.67
CULTIVATE EARLY	6	.89	1.28	.29	.55	.74	.00	.00	3.76
CULTIVATE LATE X2	6	1.21	1.74	.40	.76	1.71	.00	.00	5.12
SPRAY HCLEAR 14 ROW	6	.00	.00	.44	.60	.21	4.62	.00	5.87
CULT + POST LATE	7	.77	1.10	.29	.55	.44	1.73	.00	5.07
COMBINE 20 FT	10	.00	.00	4.00	6.19	.61	.00	.00	10.80
GRAIN CART	10	.38	.55	.15	.29	.32	.00	.00	1.69
HAUL	10	.00	.00	.00	.00	.00	.00	.78	.78
TOTAL SPECIFIED COSTS		8.69	12.48	9.87	16.78	8.95	43.78	5.15	105.70
INTEREST ON OPERATING CAPITAL									4.21
TOTAL SPECIFIED COSTS INCLUDING INTEREST ON OPERATING CAPITAL									109.91

TABLE 24. ESTIMATED COST AND NET RETURNS PER ACRE
 SOYBEANS, HIGH INPUT PRACTICES, 6 ROW EQUIPMENT, 30 INCH ROW SPACING,
 BLACK BELT OF NORTHEAST MISSISSIPPI, 1978.

ITEM	UNIT	PRICE DOLLARS	QUANTITY	AMOUNT DOLLARS
INCOME				
SOYBEANS	BU	5.50000	23.00	126.50
TOTAL INCOME				126.50
DIRECT EXPENSES				
COMMON LABOR	HOUR	2.65	.26	.70
OPERATOR LABOR	HOUR	2.65	2.72	7.22
SPECIAL LABOR	HOUR	2.65	.39	1.03
APPLY LIME X1/4	TON	8.75	.50	4.38
FERT 0-24-24	CWT	6.83	2.50	17.07
TREFLAN	LB	5.85	1.00	5.85
DINITRO	LB	2.28	3.02	6.89
SEED	LB	.17	55.00	9.35
BASAGRAN	LB	14.00	.33	4.62
SPECIAL EQUIPMENT	ACRE	4.88	1.00	4.88
EQUIPMENT	ACRE	4.99	1.00	4.99
TRACTOR	ACRE	8.69	1.00	8.69
INT ON OP- CAP	ACRE	4.21	1.00	4.21
HAUL	BU	.03	23.00	.78
TOTAL DIRECT EXPENSE				80.66
RETURNS ABOVE DIRECT EXPENSES				45.84
FIXED EXPENSES				
SPECIAL EQUIPMENT	ACRE	7.39	1.00	7.39
EQUIPMENT	ACRE	9.39	1.00	9.39
TRACTOR	ACRE	12.48	1.00	12.48
TOTAL FIXED EXPENSE				29.26
TOTAL SPECIFIED EXPENSES				109.91
NET RETURN ABOVE SPECIFIED EXPENSES				16.59

TABLE 25 .ESTIMATED COST PER ACRE, SOYBEANS, HIGH INPUT PRACTICES, 8 ROW EQUIPMENT, 30 INCH ROW SPACING, BLACK BELT OF NORTHEAST MISSISSIPPI, 1978.

OPERATION DESCRIPTION	MONTH	TRACTOR		EQUIPMENT		LABOR COST	MATERIAL COST	MISC COST	TOTAL COST
		DIRECT COST	FIXED COST	DIRECT COST	FIXED COST				
-----DOLLARS-----									
APPLY LIME X1/4	11	.00	.00	.00	.00	.00	.00	4.38	4.38
APPLY FERT	11	.38	.52	.52	.88	.26	17.07	.00	19.64
DEEP CHISEL 11 SHANK	11	1.53	2.09	1.13	1.97	1.06	.00	.00	7.71
CHISEL PLOW 21 FT	11	.54	.73	.18	.39	.37	.00	.00	2.21
CHISEL PLOW 21 FT	3	.54	.73	.18	.39	.37	.00	.00	2.21
DISK HARROW 28 FT	3	.38	.52	.40	.73	.26	.00	.00	2.30
DISK + INCOR 28 FT	4	.50	.68	.55	1.00	.34	5.85	.00	8.92
FIELD CULT 21 FT	4	.38	.52	.23	.51	.26	.00	.00	1.91
SECTION HARROW	5	.31	.42	.03	.07	.21	.00	.00	1.04
PLANT + PRE	5	.67	.92	.52	1.14	.93	11.08	.00	15.27
SPRAY HCLEAR 14 ROW	5	.00	.00	.44	.60	.21	3.42	.00	4.67
CULTIVATE EARLY	6	.80	1.10	.35	.67	.56	.00	.00	3.48
CULTIVATE LATE X2	6	1.07	1.46	.46	.88	.74	.00	.00	4.62
SPRAY HCLEAR 14 ROW	6	.00	.00	.44	.60	.21	4.62	.00	5.87
CULT + POST LATE	7	.65	.89	.32	.61	.45	1.73	.00	4.65
COMBINE 20 FT	10	.00	.00	4.00	6.19	.61	.00	.00	10.80
GRAIN CART	10	.46	.63	.15	.29	.32	.00	.00	1.84
HAUL	10	.00	.00	.00	.00	.00	.00	.78	.78
TOTAL SPECIFIED COSTS		8.22	11.27	9.90	16.85	7.19	43.78	5.15	102.29
INTEREST ON OPERATING CAPITAL									4.11
TOTAL SPECIFIED COSTS INCLUDING INTEREST ON OPERATING CAPITAL									106.40

TABLE 26. ESTIMATED COST AND NET RETURNS PER ACRE
 SOYBEANS, HIGH INPUT PRACTICES, 8 ROW EQUIPMENT, 30 INCH ROW SPACING,
 BLACK BELT OF NORTHEAST MISSISSIPPI, 1978.

ITEM	UNIT	PRICE DOLLARS	QUANTITY	AMOUNT DOLLARS
INCOME				
SOYBEANS	BU	5.50000	23.00	126.50
TOTAL INCOME				126.50
DIRECT EXPENSES				
COMMON LABOR	HOUR	2.65	.18	.47
OPERATOR LABOR	HOUR	2.65	2.15	5.69
SPECIAL LABOR	HOUR	2.65	.39	1.03
APPLY LIME X1/4	TON	8.75	.50	4.38
FERT 0-24-24	CWT	6.83	2.50	17.07
TREFLAN	LB	5.85	1.00	5.85
DINITRO	LB	2.28	3.02	6.89
SEED	LB	.17	55.00	9.35
BASAGRAN	LB	14.00	.33	4.62
SPECIAL EQUIPMENT	ACRE	4.88	1.00	4.88
EQUIPMENT	ACRE	5.02	1.00	5.02
TRACTOR	ACRE	8.22	1.00	8.22
INT ON OP CAP	ACRE	4.11	1.00	4.11
HAUL	BU	.03	23.00	.78
TOTAL DIRECT EXPENSE				78.35
RETURNS ABOVE DIRECT EXPENSES				48.15
FIXED EXPENSES				
SPECIAL EQUIPMENT	ACRE	7.39	1.00	7.39
EQUIPMENT	ACRE	9.46	1.00	9.46
TRACTOR	ACRE	11.20	1.00	11.20
TOTAL FIXED EXPENSE				28.06
TOTAL SPECIFIED EXPENSES				106.40
NET RETURN ABOVE SPECIFIED EXPENSES				20.10

TABLE 27. ESTIMATED COST PER ACRE, COTTON, USUAL INPUT PRACTICES, 4-R3- EQUIPMENT, 38 INCH ROW SPACING, BLACK BELT OF NORTHEAST MISSISSIPPI, 1978.

OPERATION DESCRIPTION	MONTH	TRACTOR		EQUIPMENT		LABOR COST	MATERIAL COST	MISC COST	TOTAL COST
		DIRECT COST	FIXED COST	DIRECT COST	FIXED COST				
DOLLARS									
STALK SHREDDER 2 ROWS	11	.95	1.21	.08	.29	.80	.00	.00	3.32
CHISEL PLOW 12 FT	11	.95	1.21	.15	.33	.80	.00	.00	3.43
DISK HARROW 14 FT	12	.72	.93	.41	.74	.61	.00	.00	3.41
DISK HARROW 14 FT	3	.72	.93	.41	.74	.61	.00	.00	3.41
DISK + INCOR 14 FT	3	.72	.93	.45	.82	.61	5.85	.00	9.38
APPLY FERT	4	.31	.40	.52	.88	.26	19.37	.00	21.76
DISK BED	4	.66	.85	.23	.40	.56	.00	.00	2.69
PEBED	4	.66	.85	.23	.40	.56	.00	.00	2.69
ROW CONDITION	5	.53	.68	.04	.07	.45	.00	.00	1.76
PLANT + PRE	5	.76	.98	.45	.99	1.78	16.24	.00	20.72
CULTIVATE EARLY	5	.79	1.01	.21	.40	.46	.00	.00	3.07
APPLY INS GROUND	5	.00	.00	.44	.60	.21	.84	.00	2.10
APPLY FERT	6	.31	.40	.52	.88	.26	20.10	.00	22.48
CULT + POST EARLY	6	1.10	1.41	.35	.67	.93	.78	.00	5.24
CULTIVATE LATE	6	.63	.81	.17	.32	.53	.00	.00	2.46
INSECT SCOUTING	7	.00	.00	.00	.00	.00	.00	3.75	3.75
APPLY INS GROUND X2	7	.00	.00	.88	1.20	.42	2.43	.00	4.93
APPLY INS AIR	7	.00	.00	.00	.00	.03	1.21	1.00	2.24
CULT + POST LATE	7	.88	1.13	.28	.53	.74	.58	.00	4.14
CULT + POST LATE	7	.88	1.13	.28	.53	.74	.58	.00	4.14
APPLY INS GROUND	8	.00	.00	.44	.60	.21	1.21	.00	2.46
APPLY INS AIR	8	.00	.00	.00	.00	.03	1.21	1.00	2.24
APPLY INS GROUND X3	8	.00	.00	1.32	1.80	.64	9.89	.00	13.64
APPLY INS AIR	8	.00	.00	.00	.00	.03	3.30	1.00	4.32
APPLY INS AIR	9	.00	.00	.00	.00	.03	3.30	1.00	4.32
APPLY INS GROUND	9	.00	.00	.44	.60	.21	4.08	.00	5.33
APPLY DEFOLIATE	9	.00	.00	.48	.66	.23	2.93	.00	4.31
1ST PICK 2 ROW	10	.00	.00	15.21	25.88	1.97	.00	.00	45.07
HAUL	10	.00	.00	.00	.00	.00	.00	5.50	5.50
2ND PICK 2 ROW	10	.00	.00	7.81	13.29	2.04	.00	.00	23.13
HAUL	10	.00	.00	.00	.00	.00	.00	1.37	1.37
GIN	10	.00	.00	.00	.00	.00	.00	44.00	44.00
TOTAL SPECIFIED COSTS		11.59	14.83	31.80	53.62	18.44	93.92	58.62	282.82
INTEREST ON OPERATING CAPITAL									5.95
TOTAL SPECIFIED COSTS INCLUDING INTEREST ON OPERATING CAPITAL									288.77

TABLE 28. ESTIMATED COST AND NET RETURNS PER ACRE
 COTTON, USUAL INPUT PRACTICES, 4 ROW EQUIPMENT, 38 INCH ROW SPACING,
 BLACK BELT OF NORTHEAST MISSISSIPPI, 1978.

ITEM	UNIT	PRICE DOLLARS	QUANTITY	AMOUNT DOLLARS
INCOME				
COTTON LINT	LB	•52000	550.00	286.00
COTTON SEED	LB	•05000	853.00	42.65
TOTAL INCOME				328.65
DIRECT EXPENSES				
COMMON LABOR	HOUR	2.65	1.42	3.76
OPERATOR LABOR	HOUR	2.65	3.68	9.75
SPECIAL LABOR	HOUR	2.65	1.86	4.94
TREFLAN	LB	5.85	1.00	5.85
FERT 8-24-24	CWT	7.75	2.50	19.37
COTORAN	LB	5.79	1.25	7.24
TEMIK	LB	4.85	.30	1.45
SOIL TREATER XXX	LB	1.45	.10	.14
SEED	LB	.27	27.50	7.42
BIDPIN	LB	4.22	.20	.84
FERT AMM NITRATE	CWT	6.70	3.00	20.10
MSMA	LB	.98	.80	.78
INSECT SCOUTING	ACRE	3.75	1.00	3.75
GUTHION	LB	4.85	1.25	6.06
APPLY INS AIR	ACRE	1.00	4.00	4.00
KARMEX (WP)	LB	2.75	.42	1.16
EPN + METHYL PARA	PT	2.06	8.00	16.48
LANNATE	LB	9.06	.45	4.08
DEFOLIANT	LB	2.05	1.43	2.93
SPECIAL EQUIPMENT	ACRE	27.02	1.00	27.02
EQUIPMENT	ACRE	4.78	1.00	4.78
TRACTOR	ACRE	11.59	1.00	11.59
INT ON OP CAP	ACRE	5.95	1.00	5.95
HAUL	LB	.01	550.00	6.87
GIN	LB	.08	550.00	44.00
TOTAL DIRECT EXPENSE				220.32
RETURNS ABOVE DIRECT EXPENSES				108.33
FIXED EXPENSES				
SPECIAL EQUIPMENT	ACRE	44.63	1.00	44.63
EQUIPMENT	ACRE	8.99	1.00	8.99
TRACTOR	ACRE	14.83	1.00	14.83
TOTAL FIXED EXPENSE				68.45
TOTAL SPECIFIED EXPENSES				288.77
NET RETURN ABOVE SPECIFIED EXPENSES				39.88

TABLE 29 ESTIMATED COST PER ACRE, COTTON, USUAL INPUT PRACTICES, 6 ROW EQUIPMENT, 36 INCH ROW SPACING, BLACK BELT OF NORTHEAST MISSISSIPPI, 1978.

OPERATION DESCRIPTION	MONTH	-----TRACTOR-----		-----EQUIPMENT-----		LABOR COST	MATERIAL COST	MISC COST	TOTAL COST
		DIRECT COST	FIXED COST	DIRECT COST	FIXED COST				
-----DOLLARS-----									
STALK SHREDDER 2 ROW	11	.96	1.37	.08	.29	.80	.00	.00	3.50
CHISEL PLOW 16 FT	11	.70	1.01	.18	.39	.58	.00	.00	2.86
DISK HARROW 21 FT	12	.45	.64	.40	.73	.37	.00	.00	2.59
DISK HARROW 21 FT	3	.45	.64	.40	.73	.37	.00	.00	2.59
DISK + INCOM 21 FT	3	.57	.82	.57	1.03	.48	5.85	.00	9.33
APPLY FERT	4	.32	.46	.52	.88	.26	19.37	.00	21.82
DISK BED	4	.41	.60	.21	.35	.34	.00	.00	1.91
REBED	4	.41	.60	.21	.35	.34	.00	.00	1.91
ROW CONDITION	5	.38	.55	.04	.07	.32	.00	.00	1.36
PLANT + PRE	5	.63	.91	.46	1.01	1.05	16.26	.00	20.32
CULTIVATE EARLY	5	.67	.96	.22	.42	.56	.00	.00	2.83
APPLY INS GROUND	5	.00	.00	.44	.60	.21	.84	.00	2.10
APPLY FERT	6	.32	.46	.52	.88	.26	20.10	.00	22.54
CULT + POST EARLY	6	.77	1.10	.29	.55	.64	.78	.00	4.12
CULTIVATE LATE	6	.45	.64	.14	.28	.37	.00	.00	1.88
INSECT SCOUTING	7	.00	.00	.00	.00	.00	.00	3.75	3.75
APPLY INS GROUND X2	7	.00	.00	.88	1.20	.42	2.43	.00	4.93
APPLY INS AIR	7	.00	.00	.00	.00	.03	1.21	1.00	2.24
CULT + POST LATE	7	.57	.82	.21	.41	.48	.58	.00	3.07
CULT + POST LATE	7	.57	.82	.21	.41	.48	.58	.00	3.07
APPLY INS GROUND	8	.00	.00	.44	.60	.21	1.21	.00	2.46
APPLY INS AIR	8	.00	.00	.00	.00	.03	1.21	1.00	2.24
APPLY INS GROUND X3	8	.00	.00	1.32	1.80	.64	9.89	.00	13.64
APPLY INS AIR	8	.00	.00	.00	.00	.03	3.30	1.00	4.32
APPLY INS AIR	9	.00	.00	.00	.00	.03	3.30	1.00	4.32
APPLY INS GROUND	9	.00	.00	.44	.60	.21	4.08	.00	5.33
APPLY DEFOLIATE	9	.00	.00	.48	.66	.23	2.93	.00	4.31
1ST PICK 2 ROW	10	.00	.00	15.21	25.88	1.97	.00	.00	45.07
HAUL	10	.00	.00	.00	.00	.00	.00	5.50	5.50
2ND PICK 2 ROW	10	.00	.00	7.81	13.29	2.04	.00	.00	23.13
HAUL	10	.00	.00	.00	.00	.00	.00	1.37	1.37
GIN	10	.00	.00	.00	.00	.00	.00	44.00	44.00
TOTAL SPECIFIED COSTS		8.64	12.40	31.68	53.41	15.75	93.92	58.62	274.42
INTEREST ON OPERATING CAPITAL									5.66
TOTAL SPECIFIED COSTS INCLUDING INTEREST ON OPERATING CAPITAL									280.08

TABLE 30. ESTIMATED COST AND NET RETURNS PER ACRE
 COTTON, USUAL INPUT PRACTICES, 6 ROW EQUIPMENT, 38 INCH ROW SPACING,
 BLACK BELT OF NORTHEAST MISSISSIPPI, 1978.

ITEM	UNIT	PRICE DOLLARS	QUANTITY	AMOUNT DOLLARS
INCOME				
COTTON LINT	LB	•52000	550.00	286.00
COTTON SEED	LB	•05000	853.00	42.65
TOTAL INCOME				328.65
DIRECT EXPENSES				
COMMON LABOR	HOUR	2.65	1.37	3.64
OPERATOR LABOR	HOUR	2.65	2.71	7.18
SPECIAL LABOR	HOUR	2.65	1.86	4.94
TREFLAN	LB	5.85	1.00	5.85
FERT 8-24-24	CWT	7.75	2.50	19.37
COTORAN	LB	5.79	1.25	7.24
TEMIK	LB	4.85	.30	1.45
SOIL TREATER XXX	LB	1.45	.10	.14
SEED	LB	.27	27.50	7.42
BIDRIN	LB	4.22	.20	.84
FERT AMM NITRATE	CWT	6.70	3.00	20.10
MSMA	LB	.98	.80	.78
INSECT SCOUTING	ACRE	3.75	1.00	3.75
GUTHION	LB	4.85	1.25	6.06
APPLY INS AIR	ACRE	1.00	4.00	4.00
KARMEX (WP)	LB	2.75	.42	1.16
EPN + METHYL PARA	PT	2.06	8.00	16.48
LANNATE	LB	9.06	.45	4.08
DEFOLIANT	LB	2.05	1.43	2.93
SPECIAL EQUIPMENT	ACRE	27.02	1.00	27.02
EQUIPMENT	ACRE	4.66	1.00	4.66
TRACTOR	ACRE	8.64	1.00	8.64
INT ON OP CAP	ACRE	5.66	1.00	5.66
HAUL	LB	.01	550.00	6.87
GIN	LB	.08	550.00	44.00
TOTAL DIRECT EXPENSE				214.27
RETURNS ABOVE DIRECT EXPENSES				114.38
FIXED EXPENSES				
SPECIAL EQUIPMENT	ACRE	44.63	1.00	44.63
EQUIPMENT	ACRE	8.78	1.00	8.78
TRACTOR	ACRE	12.40	1.00	12.40
TOTAL FIXED EXPENSE				65.81
TOTAL SPECIFIED EXPENSES				280.08
NET RETURN ABOVE SPECIFIED EXPENSES				48.57

TABLE 31. ESTIMATED COST PER ACRE, COTTON, USUAL INPUT PRACTICES, 8 ROW EQUIPMENT, 38 INCH ROW SPACING, BLACK BELT OF NORTHEAST MISSISSIPPI, 1978.

OPERATION DESCRIPTION	MONTH	TRACTOR		EQUIPMENT		LABOR COST	MATERIAL COST	MISC COST	TOTAL COST
		DIRECT COST	FIXED COST	DIRECT COST	FIXED COST				
-----DOLLARS-----									
STALK SHREDDER 2 ROW	11	1.15	1.57	.08	.29	.80	.00	.00	3.88
CHISEL PLOW 21 FT	11	.54	.73	.18	.39	.37	.00	.00	2.21
DISK HARROW 28 FT	12	.38	.52	.40	.73	.26	.00	.00	2.30
DISK HARROW 28 FT	3	.38	.52	.40	.73	.26	.00	.00	2.30
DISK + INCOR 28 FT	3	.50	.68	.55	1.00	.34	5.85	.00	8.92
APPLY FERT	4	.38	.52	.52	.88	.26	19.37	.00	21.94
DISK BED	4	.38	.52	.21	.36	.26	.00	.00	1.74
REBED	4	.38	.52	.21	.36	.26	.00	.00	1.74
ROW CONDITION	5	.37	.50	.04	.08	.25	.00	.00	1.24
PLANT + PRE	5	.51	.69	.38	.86	.70	16.26	.00	19.40
CULTIVATE EARLY	5	.61	.84	.26	.51	.42	.00	.00	2.64
APPLY INS GROUND	5	.00	.00	.44	.60	.21	.84	.00	2.10
APPLY FERT	6	.39	.52	.52	.88	.26	20.10	.00	22.67
CULT + POST EARLY	6	.69	.94	.33	.64	.48	.78	.00	3.86
CULTIVATE LATE	6	.38	.52	.16	.32	.26	.00	.00	1.65
INSECT SCOUTING	7	.00	.00	.00	.00	.00	.00	3.75	3.75
APPLY INS GROUND X2	7	.00	.00	.88	1.20	.42	2.43	.00	4.93
APPLY INS AIR	7	.00	.00	.00	.00	.03	1.21	1.00	2.24
CULT + POST LATE	7	.50	.68	.24	.47	.34	.58	.00	2.81
CULT + POST LATE	7	.50	.68	.24	.47	.34	.58	.00	2.81
APPLY INS GROUND	8	.00	.00	.44	.60	.21	1.21	.00	2.46
APPLY INS AIR	8	.00	.00	.00	.00	.03	1.21	1.00	2.24
APPLY INS GROUND X3	8	.00	.00	1.32	1.80	.64	9.89	.00	13.64
APPLY INS AIR	8	.00	.00	.00	.00	.03	3.30	1.00	4.32
APPLY INS AIR	9	.00	.00	.00	.00	.03	3.30	1.00	4.32
APPLY INS GROUND	9	.00	.00	.44	.60	.21	4.08	.00	5.33
APPLY DEFOLIATE	9	.00	.00	.48	.66	.23	2.93	.00	4.31
1ST PICK 2 ROW	10	.00	.00	15.21	25.88	3.97	.00	.00	45.07
HAUL	10	.00	.00	.00	.00	.00	.00	5.50	5.50
2ND PICK 2 ROW	10	.00	.00	7.81	13.29	2.04	.00	.00	23.13
HAUL	10	.00	.00	.00	.00	.00	.00	1.37	1.37
GIN	10	.00	.00	.00	.00	.00	.00	44.00	44.00
TOTAL SPECIFIED COSTS		8.04	10.95	31.74	53.60	13.96	93.92	58.62	270.83
INTEREST ON OPERATING CAPITAL									5.54
TOTAL SPECIFIED COSTS INCLUDING INTEREST ON OPERATING CAPITAL									276.37

TABLE 32. ESTIMATED COST AND NET RETURNS PER ACRE
 COTTON, USUAL INPUT PRACTICES, 8 ROW EQUIPMENT, 38 INCH ROW SPACING,
 BLACK BELT OF NORTHEAST MISSISSIPPI, 1978.

ITEM	UNIT	PRICE DOLLARS	QUANTITY	AMOUNT DOLLARS
INCOME				
COTTON LINT	LB	•52000	550.00	286.00
COTTON SEED	LB	•05000	853.00	42.65
TOTAL INCOME				328.65
DIRECT EXPENSES				
COMMON LABOR	HOUR	2.65	1.31	3.46
OPERATOR LABOR	HOUR	2.65	2.10	5.56
SPECIAL LABOR	HOUR	2.65	1.86	4.94
TREFLAN	LB	5.85	1.00	5.85
FERT 8-24-24	CWT	7.75	2.50	19.37
COTORAN	LB	5.79	1.25	7.24
TEMIK	LB	4.85	.30	1.45
SOIL TREATER XXX	LB	1.45	.10	.14
SEED	LB	.27	27.50	7.42
BIDRIN	LB	4.22	.20	.84
FERT AMM NITRATE	CWT	6.70	3.00	20.10
MSMA	LB	.98	.80	.78
INSECT SCOUTING	ACRE	3.75	1.00	3.75
GUTHION	LB	4.85	1.25	6.06
APPLY INS AIR	ACRE	1.00	4.00	4.00
KARMEX (WP)	LB	2.75	.42	1.16
EPN + METHYL PARA	PT	2.06	8.00	16.48
LANNATE	LB	9.06	.45	4.08
DEFOLIANT	LB	2.05	1.43	2.93
SPECIAL EQUIPMENT	ACRE	27.02	1.00	27.02
EQUIPMENT	ACRE	4.72	1.00	4.72
TRACTOR	ACRE	8.04	1.00	8.04
INT ON OP CAP	ACRE	5.54	1.00	5.54
HAUL	LB	.01	550.00	6.87
GIN	LB	.08	550.00	44.00
TOTAL DIRECT EXPENSE				211.82
RETURNS ABOVE DIRECT EXPENSES				116.83
FIXED EXPENSES				
SPECIAL EQUIPMENT	ACRE	44.63	1.00	44.63
EQUIPMENT	ACRE	8.97	1.00	8.97
TRACTOR	ACRE	10.95	1.00	10.95
TOTAL FIXED EXPENSE				64.55
TOTAL SPECIFIED EXPENSES				276.37
NET RETURN ABOVE SPECIFIED EXPENSES				52.28

TABLE 33 .ESTIMATED COST PER ACRE, COTTON, HIGH INPUT PRACTICES, 4 ROW EQUIPMENT, 38 INCH ROW SPACING, BLACK BELT OF NORTHEAST MISSISSIPPI, 1978.

OPERATION DESCRIPTION	MONTH	TRACTOR		EQUIPMENT		LABOR COST	MATERIAL COST	MISC COST	TOTAL COST
		DIRECT COST	FIXED COST	DIRECT COST	FIXED COST				
-----DOLLARS-----									
STALK SHREDDER 2 ROW	11	.95	1.21	.08	.29	.80	.00	.00	3.32
DEEP CHISEL 7 SHANK	11	1.42	1.81	.93	1.56	1.19	.00	.00	6.91
CHISEL PLOW 12 FT	11	.95	1.21	.15	.33	.80	.00	.00	3.43
DISK HARROW 14 FT	12	.72	.93	.41	.74	.61	.00	.00	3.41
DISK + INCOR 14 FT	3	.72	.93	.45	.82	.61	5.85	.00	9.38
DISK BED	3	.66	.85	.23	.40	.56	.00	.00	2.69
DISK HARROW 14 FT	3	.72	.93	.41	.74	.61	.00	.00	3.41
APPLY FERT	4	.31	.40	.52	.88	.26	19.37	.00	21.76
DISK BED	5	.66	.85	.23	.40	.56	.00	.00	2.69
REBED	5	.66	.85	.23	.40	.56	.00	.00	2.69
ROW CONDITION	5	.53	.68	.04	.07	.45	.00	.00	1.76
PLANT + PRE	5	.76	.98	.45	.99	1.28	16.26	.00	20.72
CULTIVATE EARLY	5	.79	1.01	.21	.40	.46	.00	.00	3.07
APPLY INS GROUND	5	.00	.00	.44	.60	.21	.84	.00	2.10
APPLY MSMA GROUND X2	6	.00	.00	.88	1.20	.42	1.57	.00	4.07
APPLY FERT	6	.31	.40	.52	.88	.26	20.10	.00	22.48
CULT + POST EARLY X2	6	2.21	2.82	.70	1.34	1.86	5.02	.00	13.94
CULTIVATE LATE	6	.63	.81	.17	.32	.53	.00	.00	2.46
INSECT SCOUTING	7	.00	.00	.00	.00	.00	.00	3.75	3.75
APPLY INS GROUND X2	7	.00	.00	.88	1.20	.42	2.43	.00	4.93
APPLY INS AIR	7	.00	.00	.00	.00	.03	1.21	1.00	2.24
CULT + POST LATE X2	7	1.76	2.26	.56	1.06	1.48	1.16	.00	8.28
APPLY INS GROUND X5	8	.00	.00	2.20	3.00	1.56	16.48	.00	22.74
APPLY INS AIR X2	8	.00	.00	.00	.00	.05	6.59	2.00	8.64
APPLY INS AIR X2	9	.00	.00	.00	.00	.05	6.59	2.00	8.64
APPLY INS GROUND	9	.00	.00	.44	.60	.21	4.08	.00	5.33
APPLY DEFOLIATE	9	.00	.00	.48	.66	.23	2.93	.00	4.31
1ST PICK 2 ROW	10	.00	.00	15.21	25.88	3.97	.00	.00	45.07
HAUL	10	.00	.00	.00	.00	.00	.00	5.50	5.50
2ND PICK 2 ROW	10	.00	.00	7.81	13.29	2.04	.00	.00	23.13
HAUL	10	.00	.00	.00	.00	.00	.00	1.37	1.37
GIN	10	.00	.00	.00	.00	.00	.00	44.00	44.00
TOTAL SPECIFIED COSTS		14.77	18.90	34.63	58.05	21.78	110.49	59.62	318.24
INTEREST ON OPERATING CAPITAL									6.94
TOTAL SPECIFIED COSTS INCLUDING INTEREST ON OPERATING CAPITAL									325.18

TABLE 34. ESTIMATED COST AND NET RETURNS PER ACRE
 COTTON, HIGH INPUT PRACTICES, 4 ROW EQUIPMENT, 38 INCH ROW SPACING,
 BLACK BELT OF NORTHEAST MISSISSIPPI, 1978.

ITEM	UNIT	PRICE DOLLARS	QUANTITY	AMOUNT DOLLARS
INCOME				
COTTON LINT	LB	•52000	550.00	286.00
COTTON SEED	LB	•05000	853.00	42.65
TOTAL INCOME				328.65
DIRECT EXPENSES				
COMMON LABOR	HOURL	2.65	1.43	3.78
OPERATOR LABOR	HOURL	2.65	4.69	12.43
SPECIAL LABOR	HOURL	2.65	2.10	5.57
TREFLAN	LB	5.85	1.00	5.85
FERT. 8-24-24	CWT	7.75	2.50	19.37
COTORAN	LB	5.79	2.05	11.87
TEMIK	LB	4.85	.30	1.45
SOIL TREATER XXX	LB	1.45	.10	.14
SEED	LB	.27	27.50	7.42
BIDRIN	LB	4.22	.20	.84
MSMA	LB	.98	2.00	1.96
FERT AMM NITRATE	CWT	6.70	3.00	20.10
INSECT SCOUTING	ACRE	3.75	1.00	3.75
GUTHION	LB	4.85	.75	3.64
APPLY INS AIR	ACRE	1.00	1.00	1.00
KARMEX (WP)	LB	2.75	.42	1.16
EPN + METHYL PARA	PT	2.06	14.40	29.66
APPLY INS AIR X2	ACRE	1.00	4.00	4.00
LANNATE	LB	9.06	.45	4.08
DEFOLIANT	LB	2.05	1.43	2.93
SPECIAL EQUIPMENT	ACRE	28.34	1.00	28.34
EQUIPMENT	ACRE	6.29	1.00	6.29
TRACTOR	ACRE	14.77	1.00	14.77
INT ON OP CAP	ACRE	6.94	1.00	6.94
HAUL	LB	.01	550.00	6.87
GIN	LB	.08	550.00	44.00
TOTAL DIRECT EXPENSE				248.23
RETURNS ABOVE DIRECT EXPENSES				80.42
FIXED EXPENSES				
SPECIAL EQUIPMENT	ACRE	46.43	1.00	46.43
EQUIPMENT	ACRE	11.62	1.00	11.62
TRACTOR	ACRE	18.90	1.00	18.90
TOTAL FIXED EXPENSE				76.95
TOTAL SPECIFIED EXPENSES				325.18
NET RETURN ABOVE SPECIFIED EXPENSES				3.47

TABLE 35. ESTIMATED COST PER ACRE, COTTON, HIGH INPUT PRACTICES, 6 ROW EQUIPMENT, 38 INCH ROW SPACING, BLACK BELT OF NORTHEAST MISSISSIPPI, 1978.

OPERATION DESCRIPTION	MONTH	TRACTOR		EQUIPMENT		LABOR COST	MATERIAL COST	MISC COST	TOTAL COST
		DIRECT COST	FIXED COST	DIRECT COST	FIXED COST				
-----DOLLARS-----									
STALK SHREDDER 2 ROW	11	.96	1.37	.08	.29	.80	.00	.00	3.50
DEEP CHISEL 11 SHANK	11	1.28	1.83	1.13	1.90	1.06	.00	.00	7.20
CHISEL PLOW 16 FT	11	.70	1.01	.18	.39	.58	.00	.00	2.86
DISK HARROW 21 FT	12	.45	.64	.40	.73	.37	.00	.00	2.59
DISK + INCOR 21 FT	3	.57	.82	.57	1.03	.48	5.85	.00	9.33
DISK BED	3	.41	.60	.21	.35	.34	.00	.00	1.91
DISK HARROW 21 FT	3	.45	.64	.40	.73	.37	.00	.00	2.59
APPLY FERT	4	.32	.46	.52	.88	.26	19.37	.00	21.82
DISK BED	5	.41	.60	.21	.35	.34	.00	.00	1.91
REBED	5	.41	.60	.21	.35	.34	.00	.00	1.91
ROW CONDITION	5	.38	.55	.04	.07	.32	.00	.00	1.36
PLANT + PRE	5	.63	.91	.46	1.01	1.05	16.26	.00	20.32
CULTIVATE EARLY	5	.67	.96	.22	.42	.56	.00	.00	2.83
APPLY INS GROUND	5	.00	.00	.44	.60	.21	.84	.00	2.10
APPLY MSMA GROUND X2	6	.00	.00	.88	1.20	.42	1.57	.00	4.07
APPLY FERT	6	.32	.46	.52	.88	.26	20.10	.00	22.54
CULT + POST EARLY X2	6	1.53	2.20	.58	1.10	1.27	5.02	.00	11.71
CULTIVATE LATE	6	.45	.64	.14	.28	.37	.00	.00	1.88
INSECT SCOUTING	7	.00	.00	.00	.00	.00	.00	3.75	3.75
APPLY INS GROUND X2	7	.00	.00	.88	1.20	.42	2.43	.00	4.93
APPLY INS AIR	7	.00	.00	.00	.00	.03	1.21	1.00	2.24
CULT + POST LATE X2	7	1.15	1.65	.42	.82	.95	1.16	.00	6.15
APPLY INS GROUND X5	8	.00	.00	2.20	3.00	1.06	16.48	.00	22.74
APPLY INS AIR X2	8	.00	.00	.00	.00	.05	6.59	2.00	8.64
APPLY INS AIR X2	9	.00	.00	.00	.00	.05	6.59	2.00	8.64
APPLY INS GROUND	9	.00	.00	.44	.60	.21	4.08	.00	5.33
APPLY DEFOLIATE	9	.00	.00	.48	.66	.23	2.93	.00	4.31
1ST PICK 2 ROW	10	.00	.00	15.21	25.88	3.97	.00	.00	45.07
HAUL	10	.00	.00	.00	.00	.00	.00	5.50	5.50
2ND PICK 2 ROW	10	.00	.00	7.81	13.29	2.04	.00	.00	23.13
HAUL	10	.00	.00	.00	.00	.00	.00	1.37	1.37
GIN	10	.00	.00	.00	.00	.00	.00	44.00	44.00
TOTAL SPECIFIED COSTS		11.09	15.93	34.63	58.01	18.45	110.49	59.62	308.22
INTEREST ON OPERATING CAPITAL									6.59
TOTAL SPECIFIED COSTS INCLUDING INTEREST ON OPERATING CAPITAL									314.82

TABLE 36. ESTIMATED COST AND NET RETURNS PER ACRE
 COTTON, HIGH INPUT PRACTICES, 6 ROW EQUIPMENT, 38 INCH ROW SPACING,
 BLACK BELT OF NORTHEAST MISSISSIPPI, 1978.

ITEM	UNIT	PRICE DOLLARS	QUANTITY	AMOUNT DOLLARS
INCOME				
COTTON LINT	LB	.52000	550.00	286.00
COTTON SEED	LB	.05000	853.00	42.65
TOTAL INCOME				328.65
DIRECT EXPENSES				
COMMON LABOR	HOUR	2.65	1.38	3.66
OPERATOR LABOR	HOUR	2.65	3.48	9.22
SPECIAL LABOR	HOUR	2.65	2.10	5.57
TREFLAN	LB	5.85	1.00	5.85
FERT 8-24-24	CWT	7.75	2.50	19.37
COTORAN	LB	5.79	2.05	11.87
TEMIK	LB	4.85	.30	1.45
SOIL TREATER XXX	LB	1.45	.10	.14
SEED	LB	.27	27.50	7.42
BIDRIN	LB	4.22	.20	.84
MSMA	LB	.98	2.00	1.96
FERT AMM NITRATE	CWT	6.70	3.00	20.10
INSECT SCOUTING	ACRE	3.75	1.00	3.75
GUTHION	LB	4.85	.75	3.64
APPLY INS AIR	ACRE	1.00	1.00	1.00
KARMEX (WP)	LB	2.75	.42	1.16
EPN + METHYL PARA	PT	2.06	14.40	29.66
APPLY INS AIR X2	ACRE	1.00	4.00	4.00
LANNATE	LB	9.06	.45	4.08
DEFOLIANT	LB	2.05	1.43	2.93
SPECIAL EQUIPMENT	ACRE	28.34	1.00	28.34
EQUIPMENT	ACRE	6.29	1.00	6.29
TRACTOR	ACRE	11.09	1.00	11.09
INT ON OP CAP	ACRE	6.59	1.00	6.59
HAUL	LB	.01	550.00	6.87
GIN	LB	.08	550.00	44.00
TOTAL DIRECT EXPENSE				240.88
RETURNS ABOVE DIRECT EXPENSES				87.77
FIXED EXPENSES				
SPECIAL EQUIPMENT	ACRE	46.43	1.00	46.43
EQUIPMENT	ACRE	11.58	1.00	11.58
TRACTOR	ACRE	15.93	1.00	15.93
TOTAL FIXED EXPENSE				73.94
TOTAL SPECIFIED EXPENSES				314.82
NET RETURN ABOVE SPECIFIED EXPENSES				13.83

TABLE 37. ESTIMATED COST PER ACRE, COTTON, HIGH INPUT PRACTICES, 8 ROW EQUIPMENT, 38 INCH ROW SPACING, BLACK BELT OF NORTHEAST MISSISSIPPI, 1978.

OPERATION DESCRIPTION	MONTH	---TRACTOR---		---EQUIPMENT---		LABOR COST	MATERIAL COST	MISC COST	TOTAL COST
		DIRECT COST	FIXED COST	DIRECT COST	FIXED COST				
-----DOLLARS-----									
STALK SHREDDER 2 ROW	11	1.15	1.57	.08	.29	.80	.00	.00	3.88
DEEP CHISEL 11 SHANK	11	1.53	2.09	1.13	1.90	1.06	.00	.00	7.71
CHISEL PLOW 21 FT	11	.54	.73	.18	.39	.37	.00	.00	2.21
DISK HARROW 28 FT	12	.36	.52	.40	.73	.26	.00	.00	2.30
DISK + INCOR 28 FT	3	.50	.68	.55	1.00	.34	5.85	.00	8.92
DISK BED	3	.38	.52	.21	.36	.26	.00	.00	1.74
DISK HARROW 28 FT	3	.38	.52	.40	.73	.26	.00	.00	2.30
APPLY FERT	4	.38	.52	.52	.88	.26	19.37	.00	21.94
DISK BED	5	.38	.52	.21	.36	.26	.00	.00	1.74
REBED	5	.38	.52	.21	.36	.26	.00	.00	1.74
ROW CONDITION	5	.37	.50	.04	.08	.25	.00	.00	1.24
PLANT + PRE	5	.51	.69	.38	.86	.70	16.26	.00	19.40
CULTIVATE EARLY	5	.61	.84	.26	.51	.42	.00	.00	2.64
APPLY INS GROUND	5	.00	.00	.44	.60	.21	.84	.00	2.10
APPLY MSMA GROUND X2	6	.00	.00	.88	1.20	.42	1.57	.00	4.07
APPLY FERT	6	.38	.52	.52	.88	.26	20.10	.00	22.67
CULT + POST EARLY X2	6	1.38	1.88	.66	1.28	.95	5.02	.00	11.18
CULTIVATE LATE	6	.38	.52	.16	.32	.26	.00	.00	1.65
INSECT SCOUTING	7	.00	.00	.00	.00	.00	.00	3.75	3.75
APPLY INS GROUND X2	7	.00	.00	.88	1.20	.42	2.43	.00	4.93
APPLY INS AIR	7	.00	.00	.00	.00	.03	1.21	1.00	2.24
CULT + POST LATE X2	7	1.00	1.36	.48	.94	.69	1.16	.00	5.62
APPLY INS GROUND X5	8	.00	.00	2.20	3.00	1.06	16.48	.00	22.74
APPLY INS AIR X2	8	.00	.00	.00	.00	.05	6.59	2.00	8.64
APPLY INS AIR X2	9	.00	.00	.00	.00	.05	6.59	2.00	8.64
APPLY INS GROUND	9	.00	.00	.44	.60	.21	4.08	.00	5.33
APPLY DEFOLIATE	9	.00	.00	.48	.66	.23	2.93	.00	4.31
1ST PICK 2 ROW	10	.00	.00	15.21	25.88	3.97	.00	.00	45.07
HAUL	10	.00	.00	.00	.00	.00	.00	5.50	5.50
2ND PICK 2 ROW	10	.00	.00	7.81	13.29	2.04	.00	.00	23.13
HAUL	10	.00	.00	.00	.00	.00	.00	1.37	1.37
GIN	10	.00	.00	.00	.00	.00	.00	44.00	44.00
TOTAL SPECIFIED COSTS		10.64	14.50	34.73	58.30	14.42	110.49	59.62	104.70
INTEREST ON OPERATING CAPITAL									6.49
TOTAL SPECIFIED COSTS INCLUDING INTEREST ON OPERATING CAPITAL									311.19

TABLE 38. ESTIMATED COST AND NET RETURNS PER ACRE
COTTON, HIGH INPUT PRACTICES, 8 ROW EQUIPMENT, 38 INCH ROW SPACING,
BLACK BELT OF NORTHEAST MISSISSIPPI, 1978.

ITEM	UNIT	PRICE DOLLARS	QUANTITY	AMOUNT DOLLARS
INCOME				
COTTON LINT	LB	•52000	550.00	286.00
COTTON SEED	LB	•05000	853.00	42.65
TOTAL INCOME				328.65
DIRECT EXPENSES				
COMMON LABOR	HOUR	2.65	1.32	3.49
OPERATOR LABOR	HOUR	2.65	2.78	7.36
SPECIAL LABOR	HOUR	2.65	2.10	5.57
TREFLAN	LB	5.85	1.00	5.85
FERT 8-24-24	CWT	7.75	2.50	19.37
COTORAN	LB	5.79	2.05	11.87
TEMIK	LB	4.85	.30	1.45
SOIL TREATER XXX	LB	1.45	.10	.14
SEED	LB	.27	27.50	7.42
BIDRIN	LB	4.22	.20	.84
MSMA	LB	.96	2.00	1.96
FERT AMM NITRATE	CWT	6.70	3.00	20.10
INSECT SCOUTING	ACRE	3.75	1.00	3.75
GUTHION	LB	4.85	.75	3.64
APPLY INS AIR	ACRE	1.00	1.00	1.00
KARMEX (WP)	LB	2.75	.42	1.16
EPN + METHYL PARA	PT	2.06	14.40	29.66
APPLY INS AIR X2	ACRE	1.00	4.00	4.00
LANNATE	LB	9.06	.45	4.08
DEFOLIANT	LB	2.05	1.43	2.93
SPECIAL EQUIPMENT	ACRE	28.34	1.00	28.34
EQUIPMENT	ACRE	6.39	1.00	6.39
TRACTOR	ACRE	10.64	1.00	10.64
INT ON OP CAP	ACRE	6.49	1.00	6.49
HAUL	LB	.01	550.00	6.87
GIN	LB	.08	550.00	44.00
TOTAL DIRECT EXPENSE				238.39
RETURNS ABOVE DIRECT EXPENSES				90.26
FIXED EXPENSES				
SPECIAL EQUIPMENT	ACRE	46.43	1.00	46.43
EQUIPMENT	ACRE	11.87	1.00	11.87
TRACTOR	ACRE	14.50	1.00	14.50
TOTAL FIXED EXPENSE				72.80
TOTAL SPECIFIED EXPENSES				311.19
NET RETURN ABOVE SPECIFIED EXPENSES				17.46

TABLE 39 .ESTIMATED COST PER ACRE, GRAIN SORGHUM FOR GRAIN, USUAL INPUT PRACTICES, 4 ROW EQUIPMENT,
BLACK BELT OF NORTHEAST MISSISSIPPI, 1978.

OPERATION DESCRIPTION	MONTH	-----TRACTOR-----		-----EQUIPMENT-----		LABOR COST	MATERIAL COST	MISC COST	TOTAL COST
		DIRECT COST	FIXED COST	DIRECT COST	FIXED COST				
-----DOLLARS-----									
CHISEL PLOW 12 FT X2	4	1.89	2.42	.30	.66	1.59	.00	.00	6.86
DISK HARROW 14 FT	5	.72	.93	.41	.74	.61	.00	.00	3.41
FIELD CULT 12 FT	5	.63	.81	.24	.53	.53	.00	.00	2.74
FIELD CULT 12 FT	5	.63	.81	.24	.53	.53	.00	.00	2.74
PLANT	5	.63	.81	.31	.68	1.06	4.00	.00	7.49
LIQUID FERT APPL	6	.57	.73	.34	.58	.95	17.50	.00	20.67
CULT + POST EARLY	7	1.10	1.41	.35	.67	.93	.99	.00	5.46
APPLY INS - AIR X2	8	.00	.00	.20	.00	.00	5.88	4.00	9.88
COMBINE 20 FT	9	.00	.00	3.48	5.38	.53	.00	.00	9.39
GRAIN CART	9	.31	.40	.12	.24	.26	.00	.00	1.34
HAUL	9	.00	.00	.00	.00	.00	.00	2.09	2.09
STORE - DRY - LOAD	9	.00	.00	.00	.00	.00	.00	26.22	26.22
TOTAL SPECIFIED COSTS		6.49	8.30	5.79	10.01	7.00	28.37	32.31	98.27
INTEREST ON OPERATING CAPITAL									1.62
TOTAL SPECIFIED COSTS INCLUDING INTEREST ON OPERATING CAPITAL									99.89

TABLE 40. ESTIMATED COST AND NET RETURNS PER ACRE
 GRAIN SORGHUM FOR GRAIN, USUAL INPUT PRACTICES, 4 ROW EQUIPMENT,
 BLACK BELT OF NORTHEAST MISSISSIPPI, 1978.

ITEM	UNIT	PRICE DOLLARS	QUANTITY	AMOUNT DOLLARS
INCOME				
GRAIN SORGHUM	CWT	3.2500	38.00	123.50
TOTAL INCOME				123.50
DIRECT EXPENSES				
COMMON LABOR	HR	2.65	.38	1.01
OPERATOR LABOR	HR	2.65	2.06	5.46
SPECIAL LABOR	HR	2.65	.20	.53
SEED	LB	.50	8.00	4.00
FERT ANHY AMMONIA	CWT	7.00	2.50	17.50
2,4-D	LB	1.99	.50	.99
SEVIN	LB	1.96	3.00	5.88
APPLY INS - AIR X2	ACRE	1.00	4.00	4.00
SPECIAL EQUIPMENT	ACRE	3.48	1.00	3.48
EQUIPMENT	ACRE	2.31	1.00	2.31
TRACTOR	ACRE	6.49	1.00	6.49
INT ON OP CAP	ACRE	1.62	1.00	1.62
HAUL	CWT	.06	38.00	2.09
STORE - DRY - LOAD	CWT	.69	38.00	26.22
TOTAL DIRECT EXPENSE				81.58
RETURNS ABOVE DIRECT EXPENSES				41.92
FIXED EXPENSES				
SPECIAL EQUIPMENT	ACRE	5.38	1.00	5.38
EQUIPMENT	ACRE	4.63	1.00	4.63
TRACTOR	ACRE	8.30	1.00	8.30
TOTAL FIXED EXPENSE				18.31
TOTAL SPECIFIED EXPENSES				99.89
NET RETURN ABOVE SPECIFIED EXPENSES				23.61

TABLE 41. ESTIMATED COST PER ACRE, GRAIN SORGHUM FOR GRAIN, USUAL INPUT PRACTICES, 6 ROW EQUIPMENT, BLACK BELT OF NORTHEAST MISSISSIPPI, 1978.

OPERATION DESCRIPTION	MONTH	---TRACTOR---		---EQUIPMENT---		LABOR COST	MATERIAL COST	MISC COST	TOTAL COST
		DIRECT COST	FIXED COST	DIRECT COST	FIXED COST				
-----DOLLARS-----									
CHISEL PLOW 16 FT X2	4	1.40	2.02	.36	.78	1.17	.00	.00	5.72
DISK HARROW 21 FT	5	.45	.64	.40	.73	.37	.00	.00	2.59
FIELD CULT 21 FT	5	.32	.46	.23	.51	.26	.00	.00	1.78
FIELD CULT 21 FT	5	.32	.46	.23	.51	.26	.00	.00	1.78
PLANT	5	.45	.64	.29	.63	.74	4.00	.00	6.75
LIQUID FERT APPL	6	.38	.55	.28	.48	.64	17.50	.00	19.83
CULT + POST EARLY	7	.77	1.10	.29	.55	.64	.99	.00	4.34
APPLY INS = AIR X2	8	.00	.00	.00	.00	.00	5.88	4.00	9.88
COMBINE 23 FT	9	.00	.00	3.48	5.38	.53	.00	.00	9.39
GRAIN CART	9	.32	.46	.12	.24	.26	.00	.00	1.40
HAUL	9	.00	.00	.00	.00	.00	.00	2.09	2.09
STORE - DRY - LOAD	9	.00	.00	.00	.00	.00	.00	26.22	26.22
TOTAL SPECIFIED COSTS		4.40	6.32	5.68	9.81	4.88	28.37	32.31	91.77
INTEREST ON OPERATING CAPITAL									1.46
TOTAL SPECIFIED COSTS INCLUDING INTEREST ON OPERATING CAPITAL									93.24

TABLE 42. ESTIMATED COST AND NET RETURNS PER ACRE
 GRAIN SORGHUM FOR GRAIN, USUAL INPUT PRACTICES, 6 ROW EQUIPMENT,
 BLACK BELT OF NORTHEAST MISSISSIPPI, 1978.

ITEM	UNIT	PRICE DOLLARS	QUANTITY	AMOUNT DOLLARS
INCOME				
GRAIN SORGHUM	CWT	3.25000	38.00	123.50
TOTAL INCOME				123.50
DIRECT EXPENSES				
COMMON LABOR	HOUR	2.65	.26	.69
OPERATOR LABOR	HOUR	2.65	1.38	3.66
SPECIAL LABOR	HOUR	2.65	.20	.53
SEED	LB	.50	8.00	4.00
FERT ANHY AMMONIA	CWT	7.00	2.50	17.50
2,4-D	LB	1.99	.50	.99
SEVIN	LB	1.96	3.00	5.88
APPLY INS - AIR X2	ACRE	1.00	4.00	4.00
SPECIAL EQUIPMENT	ACRE	3.48	1.00	3.48
EQUIPMENT	ACRE	2.20	1.00	2.20
TRACTOR	ACRE	4.40	1.00	4.40
INT ON OP CAP	ACRE	1.46	1.00	1.46
HAUL	CWT	.06	38.00	2.09
STORE - DRY - LOAD	CWT	.69	38.00	26.22
TOTAL DIRECT EXPENSE				77.11
RETURNS ABOVE DIRECT EXPENSES				46.39
FIXED EXPENSES				
SPECIAL EQUIPMENT	ACRE	5.38	1.00	5.38
EQUIPMENT	ACRE	4.43	1.00	4.43
TRACTOR	ACRE	6.32	1.00	6.32
TOTAL FIXED EXPENSE				16.13
TOTAL SPECIFIED EXPENSES				93.24
NET RETURN ABOVE SPECIFIED EXPENSES				30.26

TABLE 43. ESTIMATED COST PER ACRE, GRAIN SORGHUM FOR GRAIN, USUAL INPUT PRACTICES, 8 ROW EQUIPMENT, BLACK BELT OF NORTHEAST MISSISSIPPI, 1978.

OPERATION DESCRIPTION	MONTH	---TRACTOR---		---EQUIPMENT---		LABOR COST	MATERIAL COST	MISC COST	TOTAL COST
		DIRECT COST	FIXED COST	DIRECT COST	FIXED COST				
-----DOLLARS-----									
CHISEL PLOW 21 FT X2	4	1.07	1.46	.36	.78	.74	.00	.00	4.42
DISK HARROW 28 FT	5	.38	.52	.40	.73	.26	.00	.00	2.30
FIELD CULT 21 FT	5	.38	.52	.23	.51	.26	.00	.00	1.91
FIELD CULT 21 FT	5	.38	.52	.23	.51	.26	.00	.00	1.91
PLANT	5	.38	.52	.27	.60	.53	4.00	.00	6.30
LIQUID FERT APPL	6	.31	.42	.23	.39	.42	17.50	.00	19.27
CULT + POST EARLY	7	.69	.94	.33	.64	.48	.99	.00	4.07
APPLY INS - AIR X2	8	.00	.00	.00	.00	.00	5.88	4.00	9.88
COMBINE 20 FT	9	.00	.00	3.48	5.38	.53	.00	.00	9.39
GRAIN CART	9	.38	.52	.12	.24	.26	.00	.00	1.53
HAUL	9	.00	.00	.00	.00	.00	.00	2.09	2.09
STORE - DRY - LOAD	9	.00	.00	.00	.00	.00	.00	26.22	26.22
TOTAL SPECIFIED COSTS		3.98	5.43	5.65	9.74	3.76	28.37	32.31	89.29
INTEREST ON OPERATING CAPITAL									1.40
TOTAL SPECIFIED COSTS INCLUDING INTEREST ON OPERATING CAPITAL									90.69

TABLE 44. ESTIMATED COST AND NET RETURNS PER ACRE
 GRAIN SORGHUM FOR GRAIN, USUAL INPUT PRACTICES, 8 ROW EQUIPMENT,
 BLACK BELT OF NORTHEAST MISSISSIPPI, 1978.

ITEM	UNIT	PRICE DOLLARS	QUANTITY	AMOUNT DOLLARS
INCOME				
GRAIN SORGHUM	CWT	3.2500	38.00	123.50
TOTAL INCOME				123.50
DIRECT EXPENSES				
COMMON LABOR	HR	2.65	.18	.48
OPERATOR LABOR	HR	2.65	1.04	2.76
SPECIAL LABOR	HR	2.65	.20	.53
SEED	LB	.50	8.00	4.00
FERT ANHY AMMONIA	CWT	7.00	2.50	17.50
2,4-D	LB	1.99	.50	.99
SEVIN	LB	1.96	3.00	5.88
APPLY INS = AIR X2	ACRE	1.00	4.00	4.00
SPECIAL EQUIPMENT	ACRE	3.48	1.00	3.48
EQUIPMENT	ACRE	2.17	1.00	2.17
TRACTOR	ACRE	3.98	1.00	3.98
INT ON OP CAP	ACRE	1.40	1.00	1.40
HAUL	CWT	.06	38.00	2.09
STORE - DRY - LOAD	CWT	.69	38.00	26.22
TOTAL DIRECT EXPENSE				75.48
RETURNS ABOVE DIRECT EXPENSES				48.02
FIXED EXPENSES				
SPECIAL EQUIPMENT	ACRE	5.38	1.00	5.38
EQUIPMENT	ACRE	4.40	1.00	4.40
TRACTOR	ACRE	5.43	1.00	5.43
TOTAL FIXED EXPENSE				15.21
TOTAL SPECIFIED EXPENSES				90.69
NET RETURN ABOVE SPECIFIED EXPENSES				32.81

TABLE 45. ESTIMATED COST PER ACRE, WHEAT FOR GRAIN, USUAL INPUT PRACTICES, 115-150 DHP TRACTOR, BLACK BELT OF NORTHEAST MISSISSIPPI, 1974.

OPERATION DESCRIPTION	MONTH	-----TRACTOR-----		-----EQUIPMENT-----		LABOR COST	MATERIAL COST	MISC COST	TOTAL COST
		DIRECT COST	FIXED COST	DIRECT COST	FIXED COST				
-----DOLLARS-----									
APPLY FERT	9	.36	.52	.52	.88	.26	15.50	.00	18.07
CHISEL PLOW 21 FT	9	.54	.73	.18	.39	.37	.00	.00	2.21
DISK HARROW 28 FT	10	.38	.52	.40	.73	.26	.00	.00	2.30
SECTION HARROW	10	.31	.42	.03	.07	.21	.00	.00	1.04
GRAIN DRILL 32 FT	10	.36	.52	.79	1.52	.52	6.16	.00	9.89
APP FERT - AIR	3	.00	.00	.00	.00	.08	20.10	2.50	22.68
APP 2.4-D - AIR	4	.00	.00	.00	.00	.03	1.99	3.50	5.52
COMBINE 20 FT	6	.00	.00	4.00	6.19	.61	.00	.00	10.80
GRAIN CART	6	.46	.63	.15	.29	.32	.00	.00	1.84
HAUL	6	.00	.00	.00	.00	.00	.00	.89	.89
BURN	6	.00	.00	.00	.00	.03	.00	.00	.03
TOTAL SPECIFIED COSTS		2.45	3.34	6.07	10.07	2.70	43.75	6.89	75.26
INTEREST ON OPERATING CAPITAL									2.56
TOTAL SPECIFIED COSTS INCLUDING INTEREST ON OPERATING CAPITAL									77.82

TABLE 46. ESTIMATED COST AND NET RETURNS PER ACRE
WHEAT FOR GRAIN, USUAL INPUT PRACTICES, 115-150 DRHP TRACTOR,
BLACK BELT OF NORTHEAST MISSISSIPPI, 1978.

ITEM	UNIT	PRICE DOLLARS	QUANTITY	AMOUNT DOLLARS
INCOME				
WHEAT	BU	3.00000	30.00	90.00
TOTAL INCOME				90.00
DIRECT EXPENSES				
COMMON LABOR	HOUR	2.65	.15	.39
OPERATOR LABOR	HOUR	2.65	.64	1.69
SPECIAL LABOR	HOUR	2.65	.23	.61
FERT 8-24-24	CWT	7.75	2.00	15.50
SEED	LB	.07	88.00	6.16
FERT AMN NITRATE	CWT	6.70	3.00	20.10
APP FERT - AIR	CWT	2.50	1.00	2.50
2,4-D	LB	1.99	1.00	1.99
APP 2,4-D - AIR	ACRE	3.50	1.00	3.50
SPECIAL EQUIPMENT	ACRE	4.00	1.00	4.00
EQUIPMENT	ACRE	2.07	1.00	2.07
TRACTOR	ACRE	2.45	1.00	2.45
INT ON OP CAP	ACRE	2.56	1.00	2.56
HAUL	BU	.03	30.00	.89
TOTAL DIRECT EXPENSE				64.42
RETURNS ABOVE DIRECT EXPENSES				25.58
FIXED EXPENSES				
SPECIAL EQUIPMENT	ACRE	6.19	1.00	6.19
EQUIPMENT	ACRE	3.88	1.00	3.88
TRACTOR	ACRE	3.34	1.00	3.34
TOTAL FIXED EXPENSE				13.40
TOTAL SPECIFIED EXPENSES				77.82
NET RETURN ABOVE SPECIFIED EXPENSES				12.18

LITERATURE CITED

1. Budgets for Major Farm Enterprises in the Mississippi River Delta of Arkansas, Louisiana, and Mississippi, AEc. M. R. No. 30, Department of Agricultural Economics, Mississippi Agricultural Experiment Station, June 1961, also published as D.A.E. Circular No. 281, Department of Agricultural Economics and Agribusiness, Louisiana State University.
2. Cooke, Fred T., Jr., J. M. Anderson, and Arthur M. Heagler, Crop Budgets and Planning Data for Major Farm Enterprises in the Yazoo-Mississippi Delta, Mississippi Agricultural and Forestry Experiment Station Bulletin 794, July 1972.
3. Cooke, Fred T., Jr., J. M. Anderson, D. W. Parvin, Jr., A. M. Heagler, Kenneth Paxton, Shelby Holder, Jr., and James G. Hamill, Crop Budgets and Planning Data for Major Farm Enterprises in the Mississippi-Louisiana Delta, 1975, Mississippi Agricultural and Forestry Experiment Station Bulletin 834, May 1975.
4. Costs of Producing Selected Crops in the U. S., 1974, and Selected Updates, Senate Committee Project No. 63-092, Committee on Agriculture and Forestry, U. S. Senate, January 8, 1976.
5. Parvin, D. W., Jr., and J. M. Anderson, Planning Information, Cotton and Soybeans, Mississippi Delta, 1975, Mississippi Agricultural and Forestry Experiment Station Bulletin 827, January 1975.
6. Parvin, D. W., Jr., J. M. Anderson, F. T. Cooke, Jr., A. M. Heagler, and S. M. Toney, Specific Inputs and Prices Associated with Cotton Production Costs for the Mississippi Delta, 1975, Mississippi Agricultural and Forestry Experiment Station Bulletin 831, April 1975.
7. Parvin, D. W., Jr., J. M. Anderson, F. T. Cooke, Jr., S. H. Holder, Jr., and J. G. Hamill, Specific Inputs and Prices Associated with Soybean Production Costs for the Mississippi Delta, 1975, Mississippi Agricultural and Forestry Experiment Station Bulletin 832, April 1975.
8. Parvin, D. W., Jr., J. G. Hamill, J. M. Anderson, and F. T. Cooke, Jr., Specific Inputs and Prices for Food Grains, Feed Grains and Silage Crops, Mississippi Delta, 1975, Mississippi Agricultural and Forestry Experiment Station Bulletin 833, May 1975.

9. Parvin, D. W., Jr., J. M. Anderson, S. H. Holder, Jr., and F. T. Cooke, Jr., Cost of Production Estimates for Major Crops, Mississippi Delta, 1976, Mississippi Agricultural and Forestry Experiment Station Bulletin 843, January 1976.
10. Parvin, D. W., Jr., J. G. Hamill, and S. M. Toney, Crop Budgets for the Black Belt of Northeast Mississippi, Mississippi Agricultural and Forestry Experiment Station Bulletin 845, May 1976.
11. Parvin, D. W., Jr., F. T. Cooke, Jr., Shelby H. Holder, Jr., and J. G. Hamill, Budgets for Major Crops, Mississippi Delta, 1977, Mississippi Agricultural and Forestry Experiment Station Bulletin 850, February 1977.
12. Parvin, D. W., Jr., J. G. Hamill and F. T. Cooke, Jr., Cost of Production Estimates for the Black Belt of Northeast Mississippi, 1977, Mississippi Agricultural and Forestry Experiment Station Bulletin 851, February 1977.

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