#### Mississippi State University

#### **Scholars Junction**

**MAFES Information Bulletins** 

**Agricultural Economics Publications** 

3-1-1978

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

James G. Hamill

David W. Parvin Jr.

Fred T. Cooke Jr.

Dan Seale

David M. Cameron

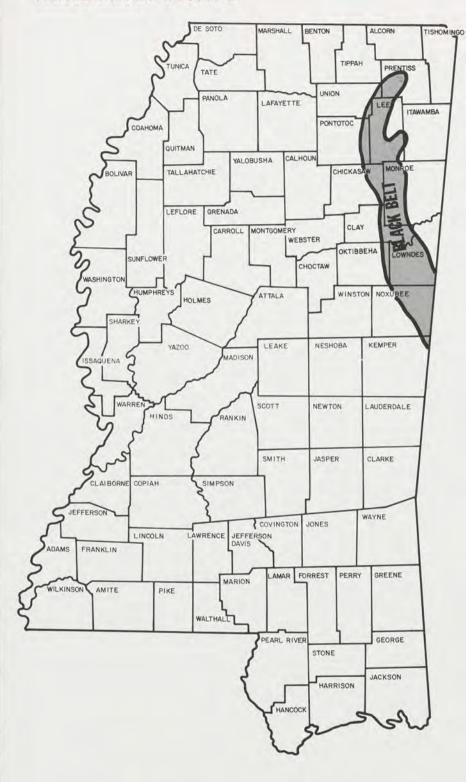
Follow this and additional works at: https://scholarsjunction.msstate.edu/mafes-info-bulletins

#### **Recommended Citation**

Hamill, James G.; Parvin, David W. Jr.; Cooke, Fred T. Jr.; Seale, Dan; and Cameron, David M., "Cost of Production Estimates For the Black Belt of Northeast Mississippi, 1978" (1978). *MAFES Information Bulletins*. 5.

https://scholarsjunction.msstate.edu/mafes-info-bulletins/5

This Article is brought to you for free and open access by the Agricultural Economics Publications at Scholars Junction. It has been accepted for inclusion in MAFES Information Bulletins by an authorized administrator of Scholars Junction. For more information, please contact scholcomm@msstate.libanswers.com.



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

By

James G. Hamill, Agricultural Economist, MAFES Department of Agricultural Economics.

David W. Parvin, Jr., Associate Agricultural Economist, MAFES Department of Agricultural Economics.

Fred T. Cooke, Jr., Agricultural Economist, CED, ESCS, USDA, stationed at Stoneville, Mississippi.

Dan Seale, Graduate Research Assistant, MAFES
Department of Agricultural Economics.

David M. Cameron, Graduate Research Assistant, MAFES Department of Agricultural Economics.

MISSISSIPPI AGRICULTURAL & FORESTRY EXPERIMENT STATION
DIRECTOR R. RODNEY FOIL MISSISSIPPI STATE MS 39762

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

Use of trade names in this report is for identification only and does not constitute endorsement of these products or imply discrimination against similar products.

#### **ACKNOWLEDGEMENTS**

Special appreciation is extended to cooperating producers who provided the basic information on practices used in this study. The various tractor-equipment dealers and other input dealers who provided information on current and projected prices are also gratefully acknowledged. The authors wish to acknowledge County Agents for the excellent cooperation that helped to make this study possible.

Data management and computer assistance provided by Mickey

Allen, Derrick Dahl, and Gene Simpson, Department of Agricultural Economics, Mississippi State University, are acknowledged. Finally, recognition and thanks are extended to Mrs. Mary Lofton for typing the manuscript.

#### **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.

#### TABLE OF CONTENTS

Page	
INTRODUCTION	1
ENTERPRISE BUDGETS	1
Soybeans	2
Usual Input Practices	2 2
Cotton	3
Usual Input Practices High Input Practices Insecticide Programs	3
Grain Sorghum for Grain	3
Wheat	3
SPECIFIED COSTS AND NET RETURNS	4
Soybeans	4
Cotton	4
Grain Sorghum for Grain	4
Wheat	4
LIMITATIONS	4
LIST OF TABLES	6
LITERATURE CITED	56

### 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 are routinely needed by specialists, and other workers in Mississippi.

practices and costs of the more agriculture. This publication is one important agricultural enterprises of a series of recent publications [3, 5, 6, 7, 8, 9, 10, 11, 12] dealing with researchers, farmers, extension the costs of crop production in

#### 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 onefourth 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 DBHP<sup>2</sup> 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.

<sup>&</sup>lt;sup>1</sup>For convenience all tables are placed after the text.

<sup>&</sup>lt;sup>2</sup>Drawbar 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.<sup>3</sup> 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 selfpropelled 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.

#### Sovbeans

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 "APP-LY 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 opera-"CULT + POST tion labeled 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 preemerge herbicide was added to the planting operation. The materials charge of \$10.72 reflects a seed charge of \$9.35 (same as

"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 "APP-LY 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 percent 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-D AIR" 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

#### Sovbeans

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 vielding 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 4row equipment to \$63.07 for "usual input practices" with 8-row equip-

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 producper acre wheat crop selling at \$3.00

ing wheat are \$77.82. A 30-bushel 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 if beans sell for \$4.50, a net return row spacing with "usual input of \$28.45 if beans sell for \$6.50 practices" will result in an estimated net return of \$7.55 per acre

(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 charges<sup>4</sup> for farm overhead are: land, management and general

	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

<sup>4</sup>Averages based on latest available figures.

## **Tables**

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

#### LIST OF TABLES

Tabl	.e	1	Page
1	Estimated power and machinery performance rates, estimated life, purchase price, repair cost, and direct and fixed costs per hour and per acre, Mississippi, 1978		10
2	Estimated materials prices, Mississippi, 1978		11
3	Estimated seed, fertilizer, and lime prices, Mississippi, 1978		12
4	Summary of aerial application costs, Mississippi, 1978 .		12
5	Summary of estimated cost per acre for soybeans, cotton, grain sorghum and wheat, Black Belt of Northeast Mississippi, 1978		13
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		14
7	Estimated cost per acre, soybeans, usual input practices, 4-row equipment, 38-inch row spacing, Black Belt of Northeast Mississippi, 1978		16
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	0	17
9	Estimated cost per acre, soybeans, usual input practices, 6-row equipment, 38-inch row spacing, Black Belt of Northeast Mississippi, 1978		18
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		19
11	Estimated cost per acre, soybeans, usual input practices, 8-row equipment, 38-inch row spacing, Black Belt of Northeast Mississippi, 1978		20

Tabl	Le Control of the Con		Page
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.		. 21
13	Estimated cost per acre, soybeans, usual input practices, 6-row equipment, 30-inch row spacing, Black Belt of Northeast Mississippi, 1978		. 22
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.		. 23
15	Estimated cost per acre, soybeans, usual input practices, 8-row equipment, 30-inch row spacing, Black Belt of Northeast Mississippi, 1978		. 24
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.		. 25
17	Estimated cost per acre, soybeans, high input practices, 4-row equipment, 38-inch row spacing, Black Belt of Northeast Mississippi, 1978		. 26
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.		. 27
19	Estimated cost per acre, soybeans, high input practices, 6-row equipment, 38-inch row spacing, Black Belt of Northeast Mississippi, 1978		. 28
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.		. 29
21	Estimated cost per acre, soybeans, high input practices, 8-row equipment, 38-inch row spacing, Black Belt of Northeast Mississippi, 1978		. 30
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.		. 31
23	Estimated cost per acre, soybeans, high input practices, 6-row equipment, 30-inch row spacing, Black Belt of Northeast Mississippi, 1978		. 32

[abl	e e		Pag	ge
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		. 3	3
25	Estimated cost per acre, soybeans, high input practices, 8-row equipment, 30-inch row spacing, Black Belt of Northeast Mississippi, 1978		. 3	14
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		. 3	5
27	Estimated cost per acre, cotton, usual input practices, 4-row equipment, 38-inch row spacing, Black Belt of Northeast Mississippi, 1978		• 3	6
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		• 3	37
29	Estimated cost per acre, cotton, usual input practices, 6-row equipment, 38-inch row spacing, Black Belt of Northeast Mississippi, 1978		. 3	88
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		. 3	39
31	Estimated cost per acre, cotton, usual input practices, 8-row equipment, 38-inch row spacing, Black Belt of Northeast Mississippi, 1978		. 1	+0
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		. 1	+1
33	Estimated cost per acre, cotton, high input practices, 4-row equipment, 38-inch row spacing, Black Belt of Northeast Mississippi, 1978	,	. 1	12
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		. 1	+3
35	Estimated cost per acre, cotton, high input practices, 6-row equipment, 38-inch row spacing, Black Belt of Northeast Mississippi, 1978		. 1	114

Tab]	Le		P	age
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			45
37	Estimated cost per acre, cotton, high input practices, 8-row equipment, 38-inch row spacing, Black Belt of Northeast Mississippi, 1978			46
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			47
39	Estimated cost per acre, grain sorghum for grain, usual input practices, 4-row equipment, Black Belt of Northeast Mississippi, 1978			48
40	Estimated cost and net returns per acre, grain sorghum for grain, usual input practices, 4-row equipment, Black Belt of Northeast Mississippi, 1978			49
41	Estimated cost per acre, grain sorghum for grain, usual input practices, 6-row equipment, Black Belt of Northeast Mississippi, 1978			50
42	Estimated cost and net returns per acre, grain sorghum for grain, usual input practices, 6-row equipment, Black Belt of Northeast Mississippi, 1978			51
43	Estimated cost per acre, grain sorghum for grain, usual input practices, 8-row equipment, Black Belt of Northeast Mississippi, 1978	٠		52
44	Estimated cost and net returns per acre, grain sorghum for grain, usual input practices, 8-row equipment, Black Belt of Northeast Mississippi, 1978	۰		53
45	Estimated cost per acre, wheat for grain, usual input practices, 115-150 DBHP tractor, Black Belt of Northeast Mississippi, 1978			54
46	Estimated cost and net returns per acre, wheat for grain, usual input practices, 115-150 DBHP tractor, Black Belt of Northeast Mississippi, 1978	0	٥	55

Table 1. Estimated power and machinery performance rates, estimated life, purchase price, repair cost, and direct and fixed costs per hour and per acre, Mississippi, 1978.

Item	Size or description	Perform- ance rate per acre	length of life Years	Average annual use Hours	Estimated 1978 price Dollars	Repair costs % of new cost Percent	Direct per hour	per acre Dol		per
elf Propelled		Hours	Tears	nours	DOLLARS	Tercens		202		
errrioperieu					00.150	-	* **		1. 02	
Tractor	90-100		12	700	22,000	65 55	3.15		4.03	-
Tractor Tractor	100-115 115-150		12	700	28,500	52	3.83		5.22	-
Tractor (4-wheel drive)	<200		12	700	47,500	49	5.62		8.71	
Tractor (4-wheel drive)	>200		12	700	53,000	49	6.71	144	9.72 7.53	.60
Sprayer - high clearance	14-row 2-row	.08	8	350 200	15,500 47,600	80 75	5.46	15.21	34.51 2	
Cotton picker - first picking Cotton picker - second picking	2-row 2-row	.55	10	200	47,600	75	20.28	11.15	34.51 1	
Combine - grain sorghum	20 ft.	.20	8	300	47,500	80		-1 -1		
Combine - rice	16 ft.	.70	8	300	53,200	80	20.34	22.38	30.15 2	
Combine - rice (down) Combine - soybean/wheat	16 ft. 20 ft.	.23	8	300	53,200 47,500	80 80	17.40	4.00		6.19
owed Equipment										
Blade - tractor mounted	7 ft.	.12	10	100	1700	60	.75	.09	1.92	.23
Chisel plow	12 ft.	.30	12	150	1272 2085	70	.49	.15	1.09	.39
Chisel plow	16 ft. 21 ft.	.22	12	150 150	3240	70	1.26	.18	2.77	.3
Chisel plow Cultivator - early	4-row	.25	12	200	2520	80	. 84	.21	1.62	.4
Cultivator - early	6-row	.21	12	200	3086	80	1.03	.22	1.98	.4:
Cultivator - early	6-row 30 in.	.28	12	200	3086 4936	80 80	1.03	.29	1.98	.5
Cultivator - early	8-row 8-row 30 in.	.16	12	200	4936	80	1.65	.35	3.17	.6
Cultivator - early Cultivator - late	4-row	.20	12	200	2520	80	. 84	.17	1.62	.3
Cultivator - late	6-row	.14	12	200	3086	80	1.03	.14	1.98	.2
Cultivator - late	6-row 30 in.	.19	12	200	3086 4936	80 80	1.03	.20	1.98	.3
Cultivator - late	8-row 8-row 30 in.	.10	12	200	4936	80	1.65	.23	3.17	.4
Cultivator - late Cultivator + postemerge rig - early	4-row	.35	12	200	2975	-80	.99	.35	1.91	.6
Cultivator + postemerge rig - early	6-row	.24	12	200	3566	80	1.19	.29	2.29	
Cultivator + postemerge rig - early	6-row 30 in.	.31	12	200	3566 5576	80 80	1.19	.37	3.58	.6
Cultivator + postemerge rig - early Cultivator + postemerge rig - early	8-row 8-row 30 in.	.24	12	200	5576	80	1.86	.45	3.58	. 8
Cultivator + postemerge rig - late	4-row	.28	12	200	2975	80	•99	.28	1.91	.5
Cultivator + postemerge rig - late	6-row	.18	12	200	3566	80	1.19	.21	2.29	.4
Cultivator + postemerge rig - late	6-row 30 in.	.24	12	200	3566 5576	80 80	1.19	.29	2.29 3.58	.14
Cultivator + postemerge rig - late Cultivator + postemerge rig - late	8-row 30 in.	.13	12	200	5576	80	1.86	. 32	3.58	.6
Deep chisel	7-shank	.45	15	100	3100	100	2.07	.93	3.46	1.5
Deep chisel	11-shank	.40	15	100	4250	100 80	2.83	1.13	3.24	1.9
Disk harrow	14 ft. 21 ft.	.23	10	180 180	4020 6480	80	2.88	.40	5.22	.,
Disk harrow Disk harrow	28 ft.	.10	10	180	9060	80	4.03	.40	7.30	
Disk bedder (hipper)	4-row	.21	8	160	1775	80	1.11	.23	1.89	.1
Disk bedder (hipper)	6-row	.13	8	160	2550	80	1.59	.21	2.71	.3
Disk bedder (hipper)	8-row	.10	8	160	3350 2400	80 80	2.09	.21	2.55	
Disk bedder + fertilizer Disk bedder + fertilizer	4-row 6-row	.22	8	160	3005	80	1.88	.30	3.19	
Disk bedder + fertilizer	8-row	.12	8	160	3990	80	2.49	.30	4.24	
Disk + incorporate	14 ft.	.23	10	180	4400	80	1.96	.45	3.54	!
Disk + incorporate	21 ft.	.18	10	200	7880	80 80	3.15 4.22	.57	7.66	1.0
Disk + incorporate	28 ft. 12 ft.	.13	10	200 100	10,560	65	1.19	.24	2.65	-
Field cultivator	21 ft.	.10	10	100	3550	65	2.31	.23	5.15	
Grain cart - grain sorghum	250 bu.	.10	12	200	3740	80	1.25	.12	2.40	
Grain cart - rice	250 bu.	.35	12	200	3740	80 80	1.25	.44	2.40	
Grain cart - soybean	250 bu. 12 ft.	.12	12	200	3740 3540	70	2.48	.59	5.13	1.
Grain drill Grain drill	32 ft.	.09	10	100	10,600	75	7.95	.72	15.37	1.
Levee plow	nin.	.05	10	100	1500	80	1.20		2.17	
Levee plow - last pull	.=	.06	10	100	1500 2850	80 80	1.20	.07	3.23	
Liquid fertilizer applicator Liquid fertilizer applicator	4-row 6-row	.18	8	150 150	3530	80	2.35	.28	4.00	
Liquid fertilizer applicator	8-row	.08	8	150	4300	80	2.87	.23	4.87	
Moldboard plow (2-way)	4-bottom	.30	15	120	3060	80	1.36	.41	2.85	
Pipe	30 ft.	.10	12	100	1425	70	1.56	.05	1.83	
Planter	4-row 6-row	.20	12	150 150	5300	70	2.06	.29	4.53	
Planter Planter	6-row 30 in.	.19	12	150	5300	70	2.06	.39	4.53	
Planter	8-row	.10	12	150	7065	70	2.75		6.04	
Planter	8-row 30 in.	.14	12	150	7065 4800	70	2.75	.38	4.11	
Planter + preemerge rig	4-row 6-row	.22	12	150 150	5950	70	2.31	.42	5.09	1
Planter + preemerge rig Planter + preemerge rig	6-row 30 in.	.24	12	150	5950	70	2.31	.56	5.09	1.
Planter + preemerge rig	8-row	.12	12	150	7570	70	2.94		6.48	
Planter + preemerge rig	8-row 30 in.	.16	12	150	7570	70	2.94		6.48	1.
Section harrow	4-row	.14	10	200	550 850	75 75	.21		.62	
Section harrow	6-row 8-row	.10	10	200	1150	75	.43	.03	.83	
Section harrow Soil pulverizer	4-row	.20	10	100	3000	75	2.25	.45	4.35	
Soil pulverizer	6-row	.15	10	100	4250	75	3.19			
Soil pulverizer	8-row	.12	10	100	5600	75	4.20			
Spin spreader	300 bu.	.10	8	100	5200	100	5.20			:
Sprayer - tractor mounted	21 ft. 2-row	.18	10	200 185	1300 1250	40	.27			
Stalk shredder Subsoiler - parabolic	3-shank	.40	15	100	1525	100	1.02	.41		
Subsoiler - parabolic		.09	15	200	1350	80	. 36	.03	.75	
Trailer - cotton plant										
Trailer - cotton plant Trailer - rice plant	==	.05	15 15	200	1350 1350	80	.36			:

Table 2. Estimated materials prices, Mississippi, 1978.

Item	Unit1/	Estimated price
		Dollars
DEFOLIANT:		
Def	16	2.05
Folex	1b	2.05
HERBICIDES:		
Atrazine	1b	3.18
Basagran	1b	14.00
Basalin	lb	5.50
Bladex	1b	2.85
Butoxone	1b	4.00
Caparol (WP)	1b	4.00
Caparol + MSMA	pt	1.50
Cobex	1b	10.00
Cotoran	16	5.79
Cotoran + MSMA	pt	2.00
Dinitro	1b	2.28
DSMA (SP)	lb	1.75
Dyanap	pt	.90
Karmex (WP)	1b	2.75
Lasso	1b	3.75
Lorox	16	7.50
MSMA	1b	.98
MSMA + Surfactant	pt	.81
Ordram	16	3.20
Paraquat	16	17.05
Probe	1b	7.50
Propanil	16	2.25
Propazine	16	2.65
Prowl	1b	5.63
Roundup	16	18.35
Sencor	1b	6.88
Surfactant	pt	.56
Tolban	lb	5.69
Treflan	lb	5.85
2, 4-D	1b	1.99
Zorial	1b	7.59
UNGICIDES:		
Soil Treater XXX	lb	1.45
Stauffer 30-30	lb	1.45
NSECTICIDES:		
Ambush	16	58.00
Azodrin	1b	6.90
Bidrin	1b	4.22
Cygon 400	lb	5.98
EPN + Methyl Parathion	pt	2.06
Guthion	1b	4.85
Lannate	1b	9.06
Lorsban 4E	1b	6.00
Methyl Parathion	1b	1.65
Orthene 75S	1b	5.95
Sevin	1b	1.96
Toxaphene	1b	.72
Toxaphene + Methyl Parathion	pt	1.15
Temik	16	4.85

 $<sup>\</sup>frac{1}{2}$  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
eed:		
Cotton, double treated	lb.	.22
Cotton, triple treated	lb.	.27
Grain sorghum	lb.	•50
Soybean	lb.	.17
Wheat	lb.	.07
Rice	lb.	.18
ertilizer:		
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	Cost per 100 pounds
	Dollars	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	<u></u> -
Ordram	2.00	

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

			Trac	tor	Equi	pment				Total	Test conset	_
Crop description	Row space	Equipment size	Direct	Fixed	Direct cost	Fixed	Labor cost	Material cost	Misc.	specified cost	Interest on operating capital	Total
	inches						-dollar	S				
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-												03.0-
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-									100	STATES		100.40
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-								****	,	2,0.05	2.24	210.31
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-						15101501		- The same	,,	501110	0.49	311.19
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	
	38	8-row	3.98	5.43	5.65	9.78	3.76	28.37	32.31	89.29	1.40	93.24
Vheat	42	115-150 DBHP	2.45	2 2).								90.69
month.		TI)-I)O DBIP	2.47	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	Row	Equipmen	t		Price leve	ls <u>l</u> /
description	space	size	Yield	Low	Expected	High
	inches				-dollars-	
Soybeans-	38	4-row	18 bu.	<b>-</b> 7.55	10.45	28.45
usual input			23 bu.	14.78	37.78	60.78
practices			32 bu.	54.98	86.98	118.98
Soybeans-	38	6-row	18 bu.	-1.49	16.51	34.51
usual input			23 bu.	20.84	43.84	66.81
practices			32 bu.	61.04	93.04	125.01
Soybeans-	38	8-row	18 bu.	1.46	19.46	37.46
usual input			23 bu.	23.80	46.80	69.80
practices			32 bu.	63.99	95.99	127.99
Soybeans-	30	6-row	18 bu.	-5.56	12.44	30.41
usual input			23 bu.	16.77	39.77	62.77
practices			32 bu.	56.97	88.97	120.97
Soybeans-	30	8-row	18 bu.	-2.47	15.53	33.53
usual input			23 bu.	19.86	42.86	65.86
practices			32 bu.	60.05	92.05	124.05
Soybeans-	38	4-row	18 bu.	-28.42	-10.42	7.58
high input			23 bu.	-6.09	16.91	39.93
practices			32 bu.	34.11	66.11	98.13
Soybeans-	38	6-row	18 bu.	-22.46	-4.46	13.5
high input			23 bu.	13	22.87	45.8
practices			32 bu.	40.07	72.07	104.0
Soybeans-	38	8-row	18 bu.	-19.35	-1.35	16.6
high input			23 bu.	2.98	25.98	48.98
practices			32 bu.	43.17	75.17	107.17
Soybeans-	30	6-row	18 bu.	-28.74	-10.74	7.26
high input			23 bu.	-6.41	16.59	39.59
practices			32 bu.	33.78	65.78	97.78
Soybeans-	30	8-row	18 bu.	-25.23	<b>-</b> 7.23	10.7
high input			23 bu.	-2.90	20.10	43.10
practices			32 bu.	37.29	69.29	101.29
Cotton-	38		500 lbs.lint	en n m	14.60	57.31 86.9
usual input			550 lbs.lint		39.88	
practices			600 lbs.lint	13.81	65.11	116.4

(continued)

Table 6. (continued)

Crop	Row	Equipment	101-22-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2	P:	rice levels	1/
description	space	size	Yield	Low	Expected	High
	inches				dollars-	
Cotton - usual input practices	38	6-row	500 lbs. lint 550 lbs. lint 600 lbs. lint	-19.46 1.54 22.49	23.29 48.57 73.79	66.04 95.60 125.09
Cotton - usual input practices	38	8-row	500 lbs. lint 550 lbs. lint 600 lbs. lint	-15.74 5.25 26.21	27.01 52.28 77.51	69.76 99.31 128.81
Cotton - high input practices	38	4-row	500 lbs. lint 550 lbs. lint 600 lbs. lint	-64.55 -43.56 -22.60	-21.80 3.47 28.70	20.95 50.50 80.00
Cotton - high input practices	38	6-row	500 lbs. lint 550 lbs. lint 600 lbs. lint	-54.19 -33.20 -12.24	-11.44 13.83 39.06	31.31 60.86 90.36
Cotton - high input practices	38	8-row	500 lbs. lint 550 lbs. lint 600 lbs. lint	-50.56 -29.57 -8.61	-7.81 17.46 42.69	34.94 64.49 93.99
Grain sorghum - usual input practices	- 38	4-row	30 cwt. 38 cwt. 46 cwt.	-18.93 -4.89 9.15	3.57 23.61 43.65	26.07 52.11 78.15
Grain sorghum - usual input practices	- 38	6-row	30 cwt. 38 cwt. 46 cwt.	-12.28 1.76 15.80	10.22 30.26 50.30	32.72 58.76 84.80
Grain sorghum - usual input practices	- 38	8-row	30 cwt. 38 cwt. 46 cwt.	-9.73 4.31 18.35	12.77 32.81 52.85	35.27 61.31 87.35
Wheat - usual input practices		115-150 DBHP	25 bu. 30 bu. 35 bu.	-15.17 -2.82 9.53	-2.67 12.18 27.03	9.83 27.18 44.53

<sup>1/</sup>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 DOW EQUIPMENT, 38 INCH ROW SPACING. BLACK BELT OF NORTHEAST MISSISSIPPI, 1978.

OPERATION DESCRIPTION	монты	DIRECT COST	FIXED COST	DIRECT COST	FIXED	LABOR	MATERIAL	MISC	TOTAL
					DOLLARS				
APPLY LIME A1/4	1 î	• 00	.00	.00	•01	• 00	• 00	4.38	4.38
CHISEL PLON 12 FT	3	.95	1 . 21	. 15	.33	• 80	•00	• 00	3.43
CHISEL PLON 12 FT	3	.95	1.21	.15	+33	. 80	• 0 G	.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	• + 1	5 • 85	.00	9.38
APPLY FERT	4	.31	• 40	.52	. 88	. 26	17+07	.00	19.46
FIELD CULT 12 FT	4	.63	. 8 1	. 24	•53	•53	• 00	.00	2.74
SECTION HARROA	5	. 44	.56	.03	+26	• 37	•00	.00	1 . 47
PLANT	5	.69	.89	.34	.75	1 . 17	9 • 35	•00	13.18
CULTIVATE EARLY	6	.79	1.21	.21	.40	.46	•60	.00	3.07
CULTIVATE LATE	6	.63	.81	.17	.32	• 5 3	•00	•00	2.46
SPRAY HOLEAR 14 ROW	6	•00	•00	.11	• 15	• n5	• 8 8	•00	1 - 1 9
CULT + POST LATE	7	. 88	1 - 1 3	. 28	.53	• 74	1 • 37	•00	4.93
COMMINE 20 FT	10	•90	.20	4.00	6 • 1 9	. 41	•00	.00	10.80
GRAIN CART	10	.38	.48	.15	.29	• 32	• 00	•00	1 - 62
HAUL	15	.00	.00	.00	•00	• 00	•00	.78	. 78
TOTAL SPECIFIED COSTS		3.10	17.36	7.21	12.32	8.06	34.52	5.15	85.71
INTEREST ON OPERATING C	APITAL								3.01
TOTAL SPECIFIED COSTS 1	MCLUDING	INTEREST ON	OPFRATIN	G 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.

DENCK BEEL OF MOKINEASI	wippippibbi.	19/8.		
ITEM	UNIT	PRICE	QUANTITY	AMOUNT
		DOLLARS		DOLLARS
INCOME SCYBEANS	BU	5.50000	23.00	126.50
TOTAL INCOME				126.50
DIRECT EXPENSES  COMMON LABOR OPERATOR LABOR SPECIAL LABOR APPLY LIME X1/4 TREFLAN FERT 0-24-24 SEED BASAGRAN DINITRO SPECIAL EQUIPMENT EQUIPMENT TRACTOR INT ON OP CAP HAUL	RRRNBTBBBEEEEU UUUUOLWILLRRRRB OOOT	2.65 2.65 2.65 8.75 5.85 6.83 14.00 2.28 4.11 3.10 8.10 8.10 3.01	22 2.57 .25 .50 1.00 2.50 55.00 .06 .60 1.00 1.00 1.00 23.00	58 6.81 4.38 5.85 17.07 9.35 .88 1.37 4.11 3.10 8.10 3.01
TOTAL DIRECT EXPENS				66.04
RETURNS ABOVE DIREC	T EXPENSES			60.46
FIXED EXPENSES SPECIAL EQUIPMENT EQUIPMENT TRACTOR	ACRE ACRE ACRE	6 • 3 4 5 • 9 8 1 0 • 3 6	1.00 1.00 1.00	6.34 5.98 10.36
TOTAL FIXED EXPENSE				22.68
TOTAL SPECIFIED EXP				88.72
NET RETURN ABOVE SP	ECIFIED EXPE	NSES		37.78

TABLE 9 .ESTIMATED COST PER ACRE, SUYBEANS, USUAL INPUT PRACTICES, 6 NOW EQUIPHENT, 38 INCH ROW SPACING, BLACK BELT OF MORTHEAST MISSISSIPPI. 1978.

OPERATION		TRACTO		EQUIPM					23000
DESCRIPTION	MONTH	nIRECT~	COST	DIRECT	FIXED	COST	MATERIAL	MISC	COST
					DOLLARS				
APPLY LIME X1/4	11	.00	.00	.00	•00	• ^0	• 20	4.38	4.38
CHISEL PLOW 16 FT	3	.70	1.01	.18	.39	• 5.8	•00	•00	2.86
CHISEL PLOW 16 FT	3	.70	1.01	.18	.39	•50	•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	.45	.52	. 8 A	• 26	17.07	•00	19.52
FIELD CULT 21 FT	4	.32	.46	.23	-51	. 76	•00	•00	1.78
SECTION HARROE	5	.32	.46	.03	• 76	• 26	•90	.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	• 1 4	• 28	• 37	•00	•00	1.88
SPRAY HCLEAR 14 ROT	6	•00	•00	•11	• 15	• 15	.88	•00	1 - 19
CULT + POST LATE	7	.57	.82	. 21	. 41	.48	1 • 37	•00	3.86
COMBINE 20 FT	- 10	•92	•00	4.00	6 • 1 9	+41	•00	.00	10.80
GRAIN CART	15	.3A	.55	. 15	.29	• 32	•00	•00	1.69
HAUL	10	•00	•00	• 00	•00	•n0	• 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 C	APITAL								2.81
TOTAL SPECIFIED COSTS I	HCLUDING	INTEREST ON	OPERATIN	G CAPITAL					82.66

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

ITEM	UNIT	PRICE	OUANTITY	AMOUNT
		DOLLARS		DOLLARS
INCOME	ВU	5.50000	23.00	126.50
TOTAL INCOME				126.50
DIRECT EXPENSES  COMMON LABOR  OPERATOR LABOR  SPECIAL LABOR  APPLY LIME X1/4  TREFLAN  FERT 0-24-24  SEED  BASAGRAN  DINITRO  SPECIAL EQUIPMENT  EQUIPMENT  TRACTOR  INT ON OP CAP  HAUL	RRRABTBBBEEEEU OOOOT C AAAAA	2.65 2.65 2.65 8.75 5.85 6.83 14.00 2.28 4.11 3.15 5.95 2.81	15 1.86 .25 .50 1.00 2.50 55.00 .60 1.00 1.00 1.00 23.00	41 4.94 .66 4.38 5.85 17.07 9.35 .88 1.37 4.11 3.15 5.95 2.81
TOTAL DIRECT EXPENSE				61.70
RETURNS ABOVE DIRECT	EXPENSES			64.80
FIXED EXPENSES SPECIAL EQUIPMENT EQUIPMENT TRACTOR	ACRE ACRE ACRE	6.34 6.08 8.54	1.00 1.00 1.00	6.34 6.08 8.54
TOTAL FIXED EXPENSE				20.96
TOTAL SPECIFIED EXPE	NSFS			82.66
NET RETURN ABOVE SPE	CIFIED FXF	PENSES		43.84

TABLE 11 .ESTIMATED COST PER ACRE. SUYBEANS, USHAL INPUT PRACTICES, & ROW EQUIPMENT, 38 INCH RO# SPACING. BLACK BELT OF NORTHEAST MISSISSIPPI, 1978.

		TRACTO	R	EQUIPM	FNT				
DESCRIPTION	MONTH	DIRECT	FIXED	DIRECT	FIXEN	LABOR	MATERIAL	MISC	TOTAL
					DOLLARS			(031	
APPLY LIME X1/4	11	.00	.00	.00	.00	• 20	•00	4.38	4.38
CHISEL PLOM 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	. 76	17.07	•00	19.64
FIELD CULT 21 FT	4	.38	.52	.23	.51	. 26	•00	.00	1.91
SECTION HAPRON	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	• 5 1	• 42	• 00	.00	2.64
CULTIVATE LATE	6	.38	.52	.16	.32	. 76	•00	•00	1.65
SPRAY HCLEAR 14 RON	6	• 00	.00	+11	• 15	• 05	. 88	•00	1.19
CULT + POST LATE	7	•57	.68	. 24	• 47	• 34	1 • 37	.00	3.60
COMBINE 20 FT	15	•00	.00	4.03	6.19	• 61	•00	•00	10.80
GRAIN CART	10	.45	.63	.15	.29	• 32	• 00	•00	1.84
HAUL	15	.70	.00	.00	•00	• 00	.00	.78	.78
TOTAL SPECIFIED COSTS		5.40	7.36	7.31	12.56	4 . 49	34.52	5 • 15	76.99
INTEREST ON OPERATING C	APITAL								2.71
TOTAL SPECIFIED COSTS I	NCLUCING	INTEREST ON	OPFRATIN	G 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	GUANTITY	AMOUNT
		DOLLARS		DOLLARS
INCOME SOYBEANS	Bu	5.50000	23.00	126.50
TOTAL INCOME		3.30000	23.00	
DIRECT EXPENSES				126.50
COMMON LABOR OPERATOR LABOR SPECIAL LABOR APPLY LIME X1/4 TREFLAN FERT 0-24~24 SEED BASAGRAN DINITRO SPECIAL EQUIPMENT EQUIPMENT TRACTOR INT ON OP CAP HAUL	RRRNBTBBBBEEEU COOOT C AAAA	2.65 2.65 2.65 8.75 5.85 6.83 1.40 2.28 4.11 3.20 2.71	11 1.41 .25 .50 1.00 2.50 55.00 .06 .60 1.00 1.00 1.00 23.00	29 3.74 .66 4.38 5.85 17.07 9.35 1.35 4.11 3.40 2.71
TOTAL DIRECT EXPENSE				59.78
RETURNS ABOVE DIRECT	EXPENSES			66.72
FIXED EXPENSES SPECIAL EQUIPMENT EQUIPMENT TRACTOR	ACRE ACRE ACRE	6 • 3 4 6 • 2 2 7 • 3 6	1.00 1.00 1.00	6.34 6.22 7.36
TOTAL FIXED EXPENSE				19.92
TOTAL SPECIFIED EXPE	NSES			79.70
NET RETURN ABOVE SPE	CIFIED EXP	ENSES		46.80

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

OPERATION DESCRIPTION	нтисм	"DIRECT" COST	FIXED COST	DIRECT COST	FIXED	LABOR	MATERIAL COST	MISC	TOTAL
					DOLLARS				
APPLY LIME X1/4	11	•99	.03	.00	• 00	•00	• 00	4.38	4.38
CHISEL PLON 16 FT	3	.70	1.01	.18	.39	• 5 8	• 00	.00	2.86
CHISEL PLON 16 FT	3	.70	1.01	•13	.39	•58	•00	.00	2.86
DISK HARRON 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	• 8 8	. 26	17.07	•00	19.52
FIELD CULT 21 FT	4	.32	.46	.23	•51	. 76	•00	•00	1.78
SECTION HARRON	5	.25	.37	.03	.07	. 21	•00	.00	. 93
PLANT	5	.67	.96	. 43	. 95	1 * 1 1	9.35	• 0 0	13.46
CULTIVATE FARLY	6	.89	1.29	. 29	.55	.74	•00	•00	3,76
CULTIVATE LATE	6	.61	.87	.20	.3A	•50	• 00	.00	2.56
SPRAY HCLEAR 14 ROW	6	•00	.00	.11	• 15	• 95	1 • 15	•00	1 - 47
CULT + POST LATE	7	.77	1.13	• 29	•55	. 44	1 • 73	•00	5.07
COMBINE 23 FT	10	•05	.00	4.20	6 • 1 9	• 61	•00	.00	10.80
GRAIN CART	10	.38	.55	.15	. 29	• 32	• 0 0	•00	1.69
HAUL	13	.00	.00	.60	•00	.00	• 00	.78	. 78
OTAL SPECIFIED COSTS		6.63	9.52	7.58	13.06	4.73	35 • 16	5 • 15	83.8
NTEREST ON OPERATING	APITAL								2.89
OTAL SPECIFIED COSTS 1		INTEREST ON	OPFRATI	G CAPITAL					86.7

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.

DENTH DELL OF WARINERS! W	1221221661	19/8.		
ITEM	UNIT	PRICE	QUANTITY	AMOUNT
		DOLLARS		DOLLARS
INCOME	BU	5.50000	23.00	126.50
TOTAL INCOME			23.00	126.50
DIRECT EXPENSES COMMON LABOR OPERATOR LABOR APPELIAL LABOR APPLY LIME X1/4 TREFLAN FERT 0-24-24 SEE0 BASAGRAN DINITRO SPECIAL EQUIPMENT EQUIPMENT TRACTOR INTO OP CAP HAUL	HOUD LARRED LLRRRR BU AACAA	2.65 2.65 2.65 8.75 5.85 6.83 14.26 4.11 3.43 4.11 3.43 2.89	21 2.08 .25 .50 1.00 2.50 55.00 .08 .76 1.00 1.00 1.00 23.00	55 5.51 4.38 5.85 17.07 9.35 1.15 1.73 4.11 3.47 6.63 2.89 .78
TOTAL DIRECT EXPENS	Ε			64.15
RETURNS ABOVE DIREC	T EXPENSES			62.35
FIXED EXPENSES SPECIAL EQUIPMENT EQUIPMENT TRACTOR	ACRE ACRE	6 • 3 4 6 • 7 2 9 • 5 2	1.00 1.00 1.00	6.34 6.72 9.52
TOTAL FIXED EXPENSE				22.58
TOTAL SPECIFIED EXP	ENSES			86.73
NET RETURN ABOVE SPE	ECIFIED EXP	ENSES		39.77

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

		TRACT		-=EGUIPME					TOTAL
OPERATION DESCRIPTION	MONTH	DIRECT	FIXED	DIRECT	FIXED	COST	MATERIAL	COST	COST
					OLLARS ===				
APPLY LIME X1/4	11	•05	•00	• 05	•00	• 00	• 00	4.38	4.38
CHISEL PLOS 21 FT	3	.54	.73	. 18	.39	• 37	• 00	•00	2.21
CHISEL PLOW Z1 FT	3	.54	.73	• 1 8	.39	• 37	• 00	.00	2.21
DISK HARROW 28 FT	3	.38	.52	.40	.73	. 26	•00	.00	2.30
DISK + INCOR 26 FT	4	.59	.68	.55	1.00	• 3 4	5 • 85	•00	8.92
APPLY FERT	4	.39	.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	. 53	• 07	• 21	• 0 0	•00	1.04
PLANT	5	.59	c8.	. 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 HOLEAR 14 ROA	6	•00	.00	+11	•15	• 05	1 • 15	•00	1 . 47
CULT + POST LATE	7	.65	.89	• 32	• 6 1	• 45	1 • 7 3	•00	4.65
COMBINE 20 FT	10	.00	•00	4.00	6.19	+41	•00	•00	10.80
GRAIN CART	10	.46	.63	.15	.29	• 32	• 0 0	•00	1.84
HAUL	13	.00	.00	.00	•00	•00	• 0 0	.78	.78
TOTAL SPECIFIED COSTS		6.07	8.27	7.67	13.25	5 . 27	35 • 16	5 • 15	80.84
INTEREST ON UPERATING	APITAL								2,80
TOTAL SPECIFIED COSTS I	NCLUDING	INTEREST ON	OPFRATI	NG 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 NURTHEAST MISSISSIPPI, 1978.

BLACK BE	LT OF NURTHEAST M	ISSISSIPPI.	1978.		er manner
ITEM		UNIT	PRICE	QUANTITY	THUOMA
	2		DOLLARS		DOLLARS
INCOME	EANS	BU	5.50000	23.00	126.50
To	TAL INCOME				126.50
OPER CONTROL OF SERVICE SEASON CONTROL OF SEASON	ON LABOR ATOR LABOR IAL LABOR Y LIME X1/4 LAN 0-24-24 GRAN TRO IAL EQUIPMENT PMENT	HOOD LAND LLLR REEU HOOD LAND LLLR REEU AAAAA	2.65 2.65 2.75 5.85 6.83 14.00 2.28 4.11 3.50 72.80 3	15 1.58 .25 .50 1.00 2.50 55.00 .08 .76 1.00 1.00 1.00 23.00	4.20 4.26 4.38 5.85 17.07 9.35 1.15 1.73 4.11 3.56 6.80 7.8
To	TAL DIRECT EXPENS	S E			62.12
RE	TURNS ABOVE DIREC	T EXPENSES			64.38
FIXED EX SPEC EQUI TRAC	TAL EQUIPMENT	ACRE ACRE ACRE	6 • 3 4 6 • 9 1 8 • 2 7	1.00 1.00 1.00	6.34 6.91 8.27
TO	TAL FIXED EXPENSE				21.52
TO	TAL SPECIFIED EXP	PENSES			83.64
NE	T RETURN ABOVE SE	ECIFIED EXP	ENSES		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.

		TRACT	nR	EQUIPM	FNT				
OPERATION DESCRIPTION	монти	DIRECT	FIXED	DIRECT	FIXED	COST	MATERIAL	MISC	TOTAL
APPLY LIME X1/4	11	•00	.00	.00	•00	•00	•00	4.38	4.38
APPLY FERT	1.1	.31	.40	.52	.88	• 26	17.07	•00	19.46
DEEP CHISEL 7 SHANK	11	1.42	1 . 8 1	.93	1.56	1 • 1 9	•00	•00	6.91
CHISEL PLOW 12 FT	11	.95	1 . 21	.15	.33	• 80	• 0.5	• 00	3.43
CHISEL PLOW 12 FT	3	. 95	1 . 21	. 15	.33	. 80	• 0.0	.00	3.43
DISK HARRON 14 FT	3	.72	.93	. 41	.74	• 41	•00	• 00	3.41
DISK + INCOR 14 FT	4	.72	.93	. 45	. 8 2	+ 5.1	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	• 20	•00	1 . 47
PLANT + PRE	5	.76	.98	. 45	.99	1 . 28	10.72	•00	15.18
SPRAY HCLEAR 14 ROM	5	.05	• 20	. 44	• 60	•21	3 • 42	•00	4.67
CULTIVATE FARLY	6	.79	1.01	.21	• 40	• 46	•00	•00	3.07
CULTIVATE LATE X2	6	1.26	1 . 61	.34	+64	1.06	• 20	•00	4 . 9 1
SPRAY HOLEAR 14 ROT	6	.90	.52	. 44	.60	.21	3.50	.00	4.75
CULT + POST LATE	7	.88	1 - 1 3	. 28	.53	• 74	1.37	•00	4.93
COMBINE 20 FT	10	•05	.00	4.00	6 - 19	+ 61	•66	• 00	10.80
GRAIN CART	10	.3a	.48	.15	.29	.32	•00	.00	1.62
HAUL	10	• 20	.00	.00	•00	• 00	• 0 0	.78	.78
TOTAL SPECIFIED COSTS		13.21	13.07	9 - 1 9	15.49	10.27	41.93	5 • 15	105.31
INTEREST ON OPERATING C	APITAL								4.28
TOTAL SPECIFIED COSTS 1	NCLUDING	INTEREST ON	OPFRATIN	G 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.

BLACK BELL OF NORTHEAST M	1221221bb1	19/8.				
TEM	UNIT	PRICE	QUANTITY	AMOUNT		
		DOLLARS		DOLLARS		
INCOME	BU	5.50000	23.00	126.50		
TOTAL INCOME				126.50		
DIRECT EXPENSES  COMMON LABOR  OPERATOR LABOR  SPECIAL LAEUR  APPLY LIME X1/4  FERT D-24-24  TREFLAN  DINITRO  SEED  BASAGRAN  SPECIAL FQUIPMENT  TRACTOR INT ON OP CAP  HAUL	RRRNTABBBBEEEU UUUO&LLLLERRRRB OOCTO AAAA	2 • 65 2 • 65 2 • 65 2 • 65 6 • 83 5 • 85 2 • 28 14 • 90 4 • 31 10 • 21 4 • 23	.24 3.24 .39 .50 2.50 1.00 2.70 55.00 .25 1.00 1.00 1.00 23.00	8.59 1.03 4.38 17.07 5.85 6.16 9.35 3.50 4.81 10.21 4.28		
TOTAL DIRECT EXPENS	E			81.03		
RETURNS ABOVE DIREC	T EXPENSES			45.47		
FIXED EXPENSES SPECIAL EQUIPMENT EQUIPMENT TRACTOR	ACRE ACRE	7 • 3 9 8 • 1 0 1 3 • 0 7	1.00 1.00 1.00	7.39 8.10 13.07		
TOTAL FIXED EXPENSE	28.56					
TOTAL SPECIFIED EXPENSES						
NET RETURN ABOVE SPECIFIED EXPENSES						

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

OPERATION DESCRIPTION		TRACTOR		EQUIPMENT					
	MONTH	COST	FIXED	OIRECT	FIXED COST DOLLARS	LABOR	MATERIAL	MISC COST	TOTAL
APPLY LIME X1/4	11	.05	• 20	.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 . 2 R	1.83	1.13	1.90	1.06	•00	.00	7.20
CHISEL PLON 16 FT	11	.75	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	. 8 2	.57	1.03	• 48	5 . 85	•00	9.33
FIELD CULT 21 FT	4	.32	.45	.23	.51	. 26	•00	.00	1.78
SECTION HARROW	5	.32	. 46	.03	.04	. 26	•06	•00	1.13
PLANT + PRE	5	.63	. 91	. 46	1.01	1.95	10.72	•00	14.78
SPRAY HCLEAR 14 80%	5	.05	.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	• 5 6	• 74	• 00	•00	3.76
SPRAY HOLEAR 14 ROW	6	.05	.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	10.20
GRAIN CART	10	.38	.55	+15	. 29	• 32	• 00	.00	1.69
HAUL	13	.00	.00	.00	•00	• 00	•00	.78	.78
TOTAL SPECIFIED COSTS		7 . 8 1	11.21	9.44	15.97	8 • 95	41.93	5 • 15	99.57
INTEREST ON OPERATING C	APITAL								4.06
TOTAL SPECIFIED COSTS I	HCLUDING	INTEREST ON	OPERATI	IG CAPITAL					103.63

28

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	PUANTITY	AMOUNT		
		DOLLARS		DOLLARS		
INCOME SOYBEANS	BU	5.50000	23.00	126.50		
TOTAL INCOME				126.50		
COMMON LABOR OPERATOR LABOR OPERATOR LABOR SPECIAL LABOR APPLY LIME X1/4 FERT 0-24-24 TREFLAN DINITRO SEED BASAGRAN SPECIAL EQUIPMENT EQUIPMENT TRACTOR INT ON OP CAP HAUL	RRRNTBBBBEEEEU OOODTC LLLLRRRBU AAAAA	2.65 2.65 2.65 8.75 6.83 5.82 1.00 4.86 7.81 4.06 .03	20 2.45 .39 .50 2.50 1.00 2.70 55.00 1.00 1.00 1.00 1.00 23.90	52 6.49 1.03 4.38 17.07 5.85 6.16 9.35 3.50 4.88 4.56 7.81 4.06		
TOTAL DIRECT EXPENSE	76.44					
RETURNS ABOVE DIRECT	EXPENSES			50.06		
FIXED EXPENSES SPECIAL ENUIPMENT EQUIPMENT TRACTOR	ACRE ACRE ACRE	7 • 3 9 8 • 5 8 1 1 • 2 1	1.00	7.39 8.58 11.21		
TOTAL FIXED EXPENSE				27.18		
TOTAL SPECIFIED EXPENSES						
NET RETURN ABOVE SPECIFIED EXPENSES						

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

OPERATION DESCRIPTION	MONTH	DIRECT COST	FIXED COST	DIRECT COST	FIXED	LABOR	MATERIAL	MISC	TOTAL
					NULLARS				
APPLY LIME X1/4	11:	.03	.00	.00	• 0 0	•00	• 0 0	4 . 38	4.38
APPLY FERT	11	.38	.52	.52	. 8 A	. 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 PLOY 21 FT	11	.54	.73	• 1 9	.39	• 17	•00	•00	2.21
CHISEL PLOY 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	.36	.52	.23	•51	. 26	• 00	.00	1.91
SECTION HARRON	5	.31	.42	.03	.07	•21	•00	•00	1.04
PLANT + PRE	5	.51	.69	.38	. 8 4	• 70	10.72	• 00	13.86
SPRAY HOLEAR 14 ROA	5	•00	.00	.44	.60	• 21	3.42	•00	4.67
CULTIVATE EARLY	6	.61	.84	. 26	• 5 1	• 42	•00	•00	2.64
CULTIVATE LATE X2	6	.77	1 . 0 4	.32	.64	•53	• 0 0	•00	3.30
SPRAY HOLEAR 14 ROW	6	.00	.00	. 44	.60	• 21	3.50	•00	4.75
CULT + POST LATE	7	.50	.69	.24	. 47	.34	1 • 37	.00	3.60
COMBINE 20 FT	10	.00	•00	4.00	6 - 19	• 41	• 00	.00	10.80
GRAIN CART	10	.46	.63	. 15	•27	• 32	• 00	•00	1.84
HAUL	16	.00	.00	.00	•00	• 50	• 60	.78	.78
TOTAL SPECIFIED COSTS		7.40	10.09	9.45	16+03	4.50	41.93	5 • 15	96.56
INTEREST ON OPERATING C	APITAL								3.96
TOTAL SPECIFIED COSTS I	NCLUDING	INTEREST ON	OPFRATI	S 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 MISSISSIPPT, 1978.

BLACK BELT OF NORTHEAST	MISSISSIPPI.	1978.		
ITEM	UNIT	PRICE	QUANTITY	AMOUNT
		DOLLARS		DOLLARS
INCOME	BU	5.50000	23.00	126.50
TOTAL INCOME				126.50
OIRECT EXPENSES COMMON LABOR OPERATOR LABOR SPECIAL LABOR APPLY LIME X1/4 FERT D=24-24 TREFLAN DINITRO SEED BASAGRAN SPECIAL EQUIPMENT EQUIPMENT TRACTOR INT ON OP CAP HAUL	RRRNT BBBBEEEEU UUUUO W LLLLRRRRRB UUUO W LLLLRRRRRB COCC	2.65 2.65 8.75 6.83 5.85 2.17 14.88 4.57 7.40 3.96	13 1.93 .39 .50 2.50 1.60 2.70 55.00 1.00 1.00 1.00 23.00	35 5.12 1.03 4.38 17.07 5.85 6.13 9.35 4.88 4.57 7.40 3.96
TOTAL DIRECT EXPEN	SE			74.41
RETURNS ABOVE DIRE	CT EXPENSES			52.09
FIXED EXPENSES SPECIAL EQUIPMENT EQUIPMENT TRACTOR	ACRE ACRE ACRE	7.39 8.64 10.39	1.00 1.00 1.00	7.39 8.64 10.09
TOTAL FIXED EXPENS	E			26.11
TOTAL SPECIFIED EX	PENSES			100.52
NET RETURN ABOVE S	PECIFIED EXP	ENSES		25.98

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

0.000		RT-TRACT		EQUIPM		100000			
OPERATION DESCRIPTION	MONTH	DIRECT	COST	DIRECT	FIXED	COST	MATERIAL	COST	COST
					DOLLARS				
APPLY LIME X1/4	11	.00	.00	.00	•00	•00	• 00	4.38	4.38
APPLY FERT	1.1	.32	.46	.52	. BA	. 76	17.07	.00	19.52
DEEP CHISEL II SMANK	11	1.28	1.83	1.13	1 + 9 n	1.26	•00	•00	7.20
CHISEL PLOW 16 FT	1 t	.70	1.01	.18	.39	•58	• 00	.00	2.86
CHISEL PLOY 16 FT	3	.70	1.01	.19	• 39	•58	• 00	.00	2.86
DISK HARRON 21 FT	3	.45	.64	. 42	.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 HARROM	5	. 26	.37	. 93	.07	• 21	•00	•00	. 93
PLANT + PRE	5	. 94	1 + 2 1	.62	1 - 3 4	1.40	11.08	•00	16.49
SPRAY HOLEAP 14 ROW	5	• 20	•00	. 44	.60	• 21	3.42	•00	4 . 67
CULTIVATE EARLY	6	.89	1 . 28	. 29	• 5 5	• 74	• 00	•00	3.76
CULTIVATE LATE X2	6	1 + 21	1 . 7 4	.40	.76	ī • 71	• 00	•00	5 . 1 2
SPRAY HCLEAR 14 POW	6	• 20	•20	. 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	17	.00	.00	4.00	6.19	+61	•00	.00	10.80
GRAIN CART	10	.38	.55	•15	. 29	• 32	.00	•00	1.69
HAUL	15	.00	•00	.00	• 00	• 00	•00	.78	. 78
TOTAL SPECIFIED COSTS		P.69	12.48	9.87	16.78	g • 95	43.78	5.15	105.70
INTEREST ON OPERATING C	APITAL								4.21
TOTAL SPECIFIED COSTS I	NCLUDING	INTEREST ON	OPFRATIN	G 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 PRICE DUANTITY AMOUNT COLLARS DOLLARS INCOME SOYBEANS BU 5.50000 23.00 126.50 TOTAL INCOME 126.50 DIRECT EXPENSES 2.72 COMMON LABOR HOUR 2.65 OPERATOR LABOR HOUR 2.65 7.22 SPECIAL LABOR APPLY LIME X1/4 .39 1.03 HOUR 2.65 TON 8 . 75 .50 4.38 FERT 3-24-24 TREFLAN CVT 2.50 17.07 6.83 5.85 5.85 LB 1.00 DINITRO LB 3.02 6.89 SEED BASAGRAN 14.00 55.00 .33 1.00 LB 9.35 LB 4.62 ACRE SPECIAL EQUIPMENT EQUIPMENT 4.88 ACRE 4.99 4.99 ACRE 1.00 TRACTOR 8.69 8.69 INT ON OF CAP 4.21 4.21 BU HAUL .03 23.00 TOTAL DIRECT EXPENSE 80.66 RETURNS ABOVE DIRECT EXPENSES 45.84 FIXED EXPENSES SPECIAL EQUIPMENT ACRE 1.00 7.39 7.39 EQUIPMENT ACRE 9.39 1.00 ACRE TRACTOR 12.48 1.00 12.48 TOTAL FIXED EXPENSE 29.26 TOTAL SPECIFIED EXPENSES 109.91

16.59

NET RETURN ABOVE SPECIFIED FXPENSES

TABLE 25 .ESTIMATED COST PER ACPE, SUYBEANS, HIGH INPUT PRACTICES, B ROW EQUIPMENT, 30 INCH ROW SPACING. BLACK BELT OF NORTHEAST MISSISSIFPI, 1978.

		THETRACT		EQUIPM	FNT				
DESCRIPTION	MONTH	COST	FIXED	DIRECT	FIXED COST DOLLARS	LABOR	MATERIAL	MISC	TOTAL
APPLY LIME X1/4	14	.00	.00	.00	•00	• 00	•00	4.38	4.38
APPLY FERT	1.1	.38	.52	.52	.88	• 26	17.07	•00	19.64
DEEP CHISEL 11 SHANK	1.1	1.53	2.09	1.13	1.97	1.06	•00	•00	7.71
CHISEL PLOA 21 FT	1.1	.54	.73	• 18	.39	• 37	•00	•00	2.21
CHISEL PLOW 21 FT	3	.54	.73	.18	.39	• 37	•00	•00	2.21
DISK HARRON 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	• 20	•00	1.91
SECTION HARROW	5	.31	. 42	.03	•07	• 21	•00	• 00	1.04
PLANT + PRE	5	.67	.92	.52	1 • 1 4	.93	11.08	•00	15.27
SPRAY HCLEAR 14 RON	5	•00	.00	. 44	•60	•21	3.42	•00	4.67
CULTIVATE EARLY	4	.80	1.10	.35	.67	.56	• 20	•00	3.48
CULTIVATE LATE X2	6	1.07	1 • 46	.46	.88	.74	• 20	•00	4.62
SPRAY HOLEAR 14 ROW	6	•00	• 22	. 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	1 50	•00	.00	4.00	6 • 1 9	• 61	•00	.00	10.80
GRAIN CART	15	. 46	.63	.15	.29	•32	•00	•00	1 . 84
HAUL	15	.00	•00	.00	•00	•00	• 00	.78	.78
TOTAL SPECIFIED COSTS		8.22	11.27	9.90	16.85	7 • 1 9	43.78	5 • 15	102.29
INTEREST ON OPERATING C	APITAL								4.11
TOTAL SPECIFIED COSTS I	NCLUDING	INTEREST ON	OPFRATIN	G CAPITAL					106.40

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

ITEM	UNIT	PRICE	QUANTITY	AMOUNT
		DOLLARS		DOLLARS
INCOME	BU	5.50000	23.00	126.50
TOTAL INCOME				126.50
COMMON LABOR OPERATOR LABOR SPECIAL LABOR. APPLY LIME X1/4 FERT 0-24-24 TREFLAN DINITRO SEED BASAGRAN SPECIAL EQUIPMENT EQUIPMENT TRACTOR INT ON OP CAP HAUL	RRRNTBBBBBEEEUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU	2.655 2.655 2.655 8.753 5.826 1.100 4.888 5.221 14.888 5.221 4.11	2.15 .39 .50 2.50 1.00 3.02 55.00 1.00 1.00 1.00 23.00	5.69 1.038 17.085 6.89 9.35 4.688 5.022 4.11
TOTAL DIRECT EXPENSE				78.35
RETURNS ABOVE DIRECT	EXPENSES			48.15
FIXED EXPENSES SPECIAL EQUIPMENT EQUIPMENT TRACTOR	ACRE ACRE ACRE	7 • 3 9 9 • 4 6 1 1 • 20	1.00	7.39 9.46 11.20
TOTAL FIXED EXPENSE				28.06
TOTAL SPECIFIED EXPE	NSES			106.40
NET RETURN ABOVE SPE	CIFIED EXP	ENSES		20.10

TARLE 27 .ESTIMATED COST PER ACRE. COTTON. USUAL INPUT PRACTICES, 4-R3- EQUIPMENT, 38 INCH ROW SPACING, BLACK SELT OF NORTHEAST MISSISSIPMI, 1978.

PERATION		DIFECT	FIXED	DIRECT	FIXED	LaBor	MATERIAL	VICE	707.
DESCRIPTION	MONTH	COST	C05T	COST	-noll ARS	COST	COST	MISC	COS
STALK SHREDUER 2 ROS	11	. 95	1 • 21						
CHISEL PLON 12 FT				•08	• 29	• #0	•00	•00	3 . 3
DISK HARROW 14 FT	11	.95	1.21	. 15	• 33	• 80	• 20	•00	3.4:
	12	• 7 2	.93	• 41	• 74	• 61	•00	•00	3 . 4
DISK- HARROV 14 FT	3	.72	.93	. 41	• 74	• 61	•90	•00	3 . 41
DISK + INCOF 14 FT	3	.72	. 9.3	. 45	.82	• 61	5 • 85	•00	9.38
APPIY FERT	4	.31	• 43	.52	• 3 8	. 26	19.37	.00	21.76
DISK BED	4	.66	.85	. 23	+40	•56	•00	•00	2.6
EBEO.	4	.66	.85	.23	•40	56	•00	.00	2.6
SON CONDILION	5	.53	.68	.04	. 07	• 45	+26	.00	1.76
PLANT + PRE	5	.76	.73	. 45	.99	1.78	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 FERT	6	.31	.40	.52	.88	. 26	20.10	•00	22.48
SULT + POST EARLY	6	1.17	1 + 4 1	.35	.67	.93	• 78	.00	5.2
CULTIVATE LATE	4	.63	.81	.17	•32	•53	• 00	.00	2.4
NSECT SCOUTING	7	.00	.00	.00	20.	•00	•00	3 • 75	3.75
APPLY INS GROUND X2	7	.02	.00	.88	1.20	• 42	2.43	•00	4.9
APPLY INS AIR	7	•00	•00	.00	•00	.03	1 • 21	1.00	2.24
OULT + POST LATE	7	.88	1 - 1 3	.28	.53	• 74	•58	•00	4.14
ULT + POST LATE	7	.88	1.13	.28	•53	.74	•58	•00	4 - 1 4
PPLY INS GROUND	9	•00	.00	. 44	+60	•21	1 • 21	•00	2.46
PPLY INS AIN	8	.00	.00	.00	.00	• 03	1 • 21	1.00	2.24
PPLY INS GROUND X3	А	.00	.00	1.32	1.80	. 64	9.89	•00	13.64
PPLY INS ATR	А	•00	.00	.00	•00	• n3	3.30	1.00	4.32
PPLY INS AIR	9	.00	.00	.00	•00	• 03	3.30	1.00	4.32
LPPLY INS GROUND	9	.00	.00	. 44	.61	.21	4.08	•00	5.33
PPLY DEFOLIATE	9	.00	•00	.48	.66	• 23	2.93	•00	4.3
ST PICK 2 HOW	10	•00	•00	15.21	25.88	3.97	•00	•00	45.07
AUI.	19	.03	.00	.00	•00	•00	•00		
ND PICK 2 TON	10	•00	•00	7.81	13.29	2.04	•00	•00	23.13
AUL	17	•00	•00	• 70	•00	•00	•00		
iin	10	.00	.00	.70	•00	•00		1.37	1.37
TAL SPECIFIED COSTS		11.59	14.83	31.80	53.62	18.44	92492	44.00	44.00
TEREST ON OPERATING CO	APTAL		1 1 4 4 3	33	33.02	18047	93.92	58.62	782.82
									5.95

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

BLACK BELT OF NORTHEAST MI	SSISSIPPI	19/8.		
ITEM	UNIT	PRICE	GUANTITY	AMOUNT
		DULLARS		DOLLARS
INCOME COTTON LINT COTTON SEED	LB LB	•52000 •05000	550.00 853.00	286.00
TOTAL INCOME				328.65
DIRECT EXPENSES COMMON LABOR OPERATOR LABOR SPECIAL LABOR TREFLAN FERT 8-24-24 COTORAN TEMIK SOIL TREATER XXX SEED BIDPIN FERT AMM NITRATE MSMA INSECT SCOUTING GUTHION APPLY INS AIR KARMEX (WP) EPN + METHYL PARA LANNATE DEFOLIAL EQUIPMENT TRACTOR INT ON OP CAP HAUL GIN	RRRBTBBBBBBTBBEBEBBB UUUUL# LLLLW LRLR LP LLRRRRLL OCCO C C C C C C CCCC	2225755572085505665289518 22257541 46 3412292920075518 227741 46 32292007559000000000000000000000000000000	1.48 3.68 1.80 1.00 2.52 1.20 2.52 1.20 2.52 2.7 3.80 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1	3.75 4.85 19.24 1.42 1.42 1.42 1.42 1.42 1.42 1.42 1.42 1.42 1.42 1.42 1.42 1.43 1.44
TOTAL DIRECT EXPENSE	E			220.32
RETURNS ABOVE DIRECT	T EXPENSES			108.33
FIXED EXPENSES SPECIAL EQUIPMENT EQUIPMENT TRACTOR	ACRE ACRE ACRE	44.63 8.59 14.83	1.00	44.63 8.99 14.83
TOTAL FIXED EXPENSE				68.45
TOTAL SPECIFIED EXP	ENSES			288.77
NET RETURN ABOVE SP	ECIFIED FXP	ENSES		39.88

38

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

OPERATION		nIRECT	FIXED	DIRECT	FIXED	LABOR	MATERIAL	MISC	TOTAL
DESCRIPTION	MONTH	COST	COST	COST	DOLLARS	COST	COST	rost	cos
STALK SHREDDER 2 HOW	11	.96	1.37						
CHISEL PLOW 16 FT	11	.70		.08	. 29	• 80	•00	• 00	3.5
DISK HARROW 21 FT			1.01	.18	• 39	•58	• 00	•00	2 . 8
DISK HARROW 21 FT	12	• 45	.64	.40	• 73	• 37	+00	•00	2.5
DISK + INCOR 21 FT	3	. 45	.64	.40	.73	• 37	•00	•00	2.5
APPLY FERT	3	•57	.82	.57	1 = 03	• 48	5 • 85	•00	9.3
DISK BED	4	+32	• 46	.52	•88	• 26	19+37	• 00	21.8
	4	.41	•60	.21	. 35	• 3 4	•00	• 00	1 . 9
REBED	4	• 41	•60	. 21	*35	• 34	•00	•00	1.9
SOM CONDITION	5	.38	.55	•04	• 77	•32	•00	• 00	1 . 3
PLANT + PRE	5	.63	•91	.46	1 • 01	1 • 05	16.26	•00	20.3
CULTIVATE EARLY	5	.67	.96	. 22	• 42	• 56	• 20	•00	2.8
APPLY INS GROUND	5	•00	•00	. 44	•60	• 21	• 8 4	• 00	2 • 1
APPLY FERT	6	.32	• 46	•52	• 8 B	• 26	20.13	•00	22.5
CULT + POST EARLY	6	•77	1.10	• 29	• 5 5	• 44	• 78	• 00	4 • 1
CULTIVATE LATE	6	. 45	•64	-14	• 28	• 37	• 00	•00	1 . 8
INSECT SCOUTING	7	•00	• 00	• 50	•00	•00	•00	3.75	3.7
APPLY INS GROUND X2	7	.00	•00	.88	1 • 20	• 42	2 • 43	•00	4.9
APPLY INS AIR	7	•00	•00	.00	•00	+03	1 + 2 1	1.00	2 . 2
CULT + POST LATE	7	.57	.82	• 21	• 41	. 48	• 58	•00	3 • 0
CULT + POST LATE	7	.57	.82	.21	• 41	.48	• 5 8	.00	3.0
APPLY INS GROUND	8	.00	• 20	. 44	-60	• 21	1 • 21	•00	2 . 4
IPPLY INS AIR	8	.00	•00	.00	•00	• 03	1 • 21	1 • 00	2 . 2
APPLY INS GROUND X3	8	.00	.00	1.32	1 . 80	• 64	9.89	•00	13.6
APPLY INS AIR	8	•00	.00	.00	.00	. 03	3.30	1.00	4.3
APPLY INS AIR	9	.00	•00	• 55	•00	•03	3.30	1.00	4 . 3
APPLY INS GROUND	9	•00	.00	. 44	.69	.21	4.08	•00	5 . 3
CPLY DEFOLIATE	9	.00	.00	.48	.66	.23	2.93	.00	4.3
ST PICK 2 ROW	10	•00	•00	15.21	25.88	3.97	• 00	•00	45.0
HAUL	10	•00	.00	.00	•00	•00	•00	5.50	5.5
ND PICK 2 ROW	10	.00	.00	7.81	13.29	2.04	•00	.00	23.1
HAUL	10	.00	.00	.00	•05	•00	•00	1.37	1.3
SIN	10	.00	•00	.00	•00	•00	•20	44.00	44.0
TAL SPECIFIED COSTS		8 . 64	12.40	31.68	53.41	15.75	93.92	54.62	274.4
TEREST ON OPERATING C	APITAL								5.6
OTAL SPECIFIED COSTS I	NCLUDING	INTEREST ON	OPERATIA	G CAPITAL					280.0

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.

BLAC	N BELL OF NORTHEAST M	1221221461+	14,00		
ITEM		UNIT	PRICE	QUANTITY	AMOUNT
			DOLLARS		DOLLARS
	ME COTTON LINT COTTON SEED	LB LB	•52000 •05000	550.00 853.00	286.00
	TOTAL INCOME	-0	*03000	053,00	328.65
DIRE	CT EXPENSES				
	COMMON LABOR OPERATOR LABOR SPECIAL LABOR TREFLAN FERT 8=24=24 COTORAN TEMIK SOIL TREATER XXX SEED BIDRIN FERT AMM NITRATE MSMA INSECT SCOUTING GUTHION APPLY INS AIR KARMEX (WP) EPN + METHYL PARA LANNATE DEFOLIANT SPECIANT EQUIPMENT TRACTOR INT ON OP CAP HAUL GIN	RRR ST BBBBBBTBEBBBTBBBEBBBBBBBBBBBBBBBBBBB	555555955720855505665264618 222257541 46 3412229227485 000000000000000000000000000000000000	1.37 2.71 1.86 1.00 2.525 1.225 3.60 27.520 3.60 1.00 1.00 1.00 8.00 1.00 1.00 1.00 1.0	3.48457 4.9857 4.9857 4.9857 7.4817 7.9857 7.4817 7.9856 7.9966 4.997 4.
	TOTAL DIRECT EXPENS	E			214.27
	RETURNS ABOVE DIREC	T EXPENSES			114.38
FIXE	D EXPENSES SPECIAL EQUIPMENT EQUIPMENT TRACTOR	ACRE ACRE ACRE	44.63 8.78 12.40	1.90 1.00 1.00	44.63 8.78 12.40
	TOTAL FIXED EXPENSE				65.81
	TOTAL SPECIFIED EXP	ENSES			280.08
	NET RETURN ABOVE SP	ECIFIED EXP	ENSES		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		DIRECT	FIXED	DIRECT	FIXED	LABOR	MATERIAL	MISC	TOTAL
DESCRIPTION	MONTH	COST	COST	COST	DOLLARS	COST	C051	COST	cos
ETAL O CHEFORE O	4.5		0.00						
STALK SHREDDER 2 ROW	11	1.15	1.57	.08	.29	• 80	•00	•00	3.8
CHISEL PLON 21 FT	1.1	.54	•73	. 18	.39	• 37	•00	•00	2 . 2
DISK HARROW 28 FT	12	• 38	•52	.40	• 73	• 76	• 00	•00	2.3
DISK HARRON 28 FT	3	.38	•52	. 40	•73	• 26	• 0.0	•00	2 . 3
DISK + INCOR 28 FT	3	.50	•68	.55	1.00	+ 3 4	5 . 85	•00	8.9
APPLY FERT	4	.38	.52	.52	. 8 R	. 26	19.37	.00	21.9
DISK RED	4	.38	•52	.21	.36	. 26	•00	•00	1 . 7
REBED	4	.38	•52	.21	• 36	. 26	•00	• 00	1.7
SOM CONDILION	5	.37	•50	.04	.08	. 25	•00	•00	1.2
PLANT + PRE	5	.51	.69	.38	. 8 6	•70	16.26	•00	19.4
CULTIVATE EARLY	5	-61	.84	.26	• 5 t	• 42	•00	•00	2.6
APPLY INS GROUND	5	•00	.00	. 44	•60	• 21	.84	•00	2 . 1
APPLY FERT	6	.39	.52	.52	.88	. 26	20.10	•00	22.6
CULT + POST EARLY	6	. 69	.94	.33	.64	• 48	• 78	•00	3.8
CULTIVATE LATE	6	.38	+52	.16	• 32	.26	•00	•00	1 . 6
INSECT SCOUTING	7	.00	•00	.00	•00	•00	•00	3.75	3.7
APPLY INS GROUND X2	7	.00	.00	.88	1 . 20	. 42	2 • 43	•00	4.9
APPLY INS AIR	7	•00	.00	.00	•01	•03	1 . 21	1.00	2.2
CULT + POST LATE	7	.50	.68	.24	. 47	•34	• 5 8	.00	2.8
CULT + POST LATE	7	.50	.68	.24	. 47	• 34	.58	.00	2.8
APPLY INS GROUND		.00	•00	. 44	•60	+21	1 • 21	.00	2.4
APPLY INS AIR	8	.00	.00	.00	•00	•03	1 • 21	1.00	2.2
APPLY INS GROUND X3	8	.00	.00	1.32	1.80	. 64	9.89	.00	13.6
APPLY INS AIR	8	.00	.00	.00	•00	• 03	3 • 30	1.00	4.3
APPLY INS AIR	9	.00	.CO	.00	•00	•03	3.30	1.00	4.3
APPLY INS GROUND	9	.00	.00	. 44	•60	.21	4.08	.00	5.3
APPLY DEFOLIATE	9	.00	.00	. 48	.66	•23	2.93	•00	4.3
IST PICK 2 ROW	10	.00	.00	15.21	25.88	3.97	•00	•00	45.0
IAUL	10	.00	.00	.00	•00	.00	•00	5.50	5.5
NO PICK 2 ROW	10	.00	.00	7.81	13.29	2.04	•00	•00	23.1
MAUL	10	.00	•00	.00	•00	•00	•00	1.37	1.3
1N	10	.00	.00	.00	.00	.00	•00	44.00	44.0
TAL SPECIFIED COSTS		8.04	10.95	31.74	53.60	13.96	93.92	58.62	270.8
TEREST ON OPERATING C	APITAL								5.5
OTAL SPECIFIED COSTS I	NCLUDING	INTEREST ON	OPERATIN	C CAPITAL					276.3

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.

BEACK DELI OF NONTHEAST	W1331321661	19/8,		
ITEM	UNIT	PRICE	PUANTITY	AMOUNT
		DOLLARS		DOLLARS
INCOME COTTON LINT COTTON SEED TOTAL INCOME	LB LB	*52000 •05000	550.00 853.00	286.00 42.65 328.65
DIRECT EXPENSES  COMMON LABOR  OPERATOR LABOR  SPECIAL LABOR  TREFLAN  FERT 8-24-24  COTORAN  TENIK  SOIL TREATER XXX  SEED  BIDRIN  FERT AMM NITRATE  MSMA INSECT SCOUTING  GUTHION  APPLY INS AIR  KARMEX (WP)  EPN + METHYL PARA  LANNATE  DEFOLIANT  SPECIAL EQUIPMENT  EQUIPMENT  TRACTOR  INT ON OP CAP  HAUL  GIN	RRR BT BBBBBT BEBEBEBB DUULWILLIAM LR LR LP JARRELL 0000 C A A A AAAAA	22.655.557.75.665.72.0.85.57.5.0.85.5.75.665.2.2.44.1.46.34.1.22.9.2.7.0.85.0.0.0.0.2.44.1.85.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.	1.31 2.10 1.86 1.05 2.55 1.30 2.55 1.30 2.55 3.80 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1	3.5.94 4.664 5.985 19.245 19.245 10.188
TOTAL DIRECT EXPE	NSE			211.82
RETURNS ABOVE DIRE	ECT EXPENSES			116.83
FIXED EXPENSES SPECIAL EQUIPMENT EQUIPMENT TRACTOR	ACRE ACRE ACRE	44.63 8.97 10.95	1.00 1.00 1.00	44.63 8.97 10.95
TOTAL FIXED EXPENS				64.55
TOTAL SPECIFIED E				276.37
NET RETURN ABOVE	SPECIFIED EXP	ENSES		52.28

TABLE 33 .ESTIMATED COST PER ACRE, COTTON, HIGH INPUT PRACTICES, 4 ROW EQUIPMENT, 38 INCH ROW SPACING, BLACK BELT OF NORTHEAST MISSISSIPP1, 1978.

OPERATION		DIRECT	FIXED	DIRECT		1 . 0 . 0	u.zeek.	3320	
DESCRIPTION	ноитн	COST	COST	COST	FIXED COST DOLLARS	LABOR	MATERIAL	MISC	TOTA COS
STALK SHOEDDED 2 3514									
STALK SHREDDER 2 ROW	1.1	. 95	1.21	• 0.8	. 29	• # 0	•00	•00	3.3
DEEP CHISEL 7 SHANK	11	1.42	1.81	. 93	1 • 5 6	1 - 1 9	• 93	.00	6.9
CHISEL PLON 12 FT	1.1	• 95	1 . 21	• 1 5	.33	. 80	• 00	•00	3 . 4
DISK HARRON 14 FT	12	.72	.93	. 41	.74	•61	• 00	•00	3.4
DISK + INCOR 14 FT	3	.72	.93	. 45	. 8 2	.61	5 . 85	.00	9.3
DISK BED	3	.66	.85	.23	• 40	•56	• 20	.00	2.6
DISK HARRON 14 FT	3	.72	.93	. 41	.74	•61	• 20	•00	3.4
IPPLY FERT	4	. 31	.40	.52	.88	.26	19.37	.00	21.7
DISK BED	" 5	.66	.85	.23	• 471	.56	•00	.00	2.6
REBED	5	.66	.85	. 23	• 411	• 5 6	•00	.00	2.6
SOM CONDITION	5	.53	. 6B	*04	.07	. 45	•00	.00	1.7
LANT + PRE	5	.76	.98	. 45	.99	1 . 28	16.26	.00	20.7
CULTIVATE FARLY	5	.79	1 . 01	.21	• 40	.46	•00	•00	3.0
PPLY INS GROUND	5	.00	•00	. 44	+60	• 21	•84	•00	2 . 1
PPLY MSMA GROUND X2	6	.00	•00	.88	1.20	. 42	1 • 5 7	+00	4.0
APPLY FERT	6	.31	.45	.52	.88	. 26	20 • 10	•00	22.4
CULT + POST EARLY X2	6	2 . 21	2.82	.70	1 + 3 4	1.86	5 • 02	+00	13.9
CULTIVATE LATE	6	.63	. 8 1	•17	.32	•53	•00	•00	2.4
NSECT SCOUTING	7	.02	.00	.00	•00	•00	•00	3.75	3.7
APPLY INS GROUND X2	7	.00	•00	.88	1 . 20	.42	2.43	•00	4.9
IPPLY INS AIR	7	.00	•00	.00	•00	.03	1 • 21	1.00	2.2
ULT + POST LATE X2	7	1.76	2.26	.56	1.06	1 . 48	1 - 16	•00	8.2
PPLY INS GROUND X5	8	.00	.00	2,20	3.00	1.06	16.48	.00	22.7
PPLY INS AIR X2	8	.00	•00	.00	•00	•05	6.59	2.00	8.6
PPLY INS AIR X2	9	.00	.00	.00	•00	• 05	6.59	2.00	8.6
PPLY INS GROUND	9	.00	.00	. 44	.60	.21	4.08	.00	5.3
PPLY DEFOLIATE	9	•00	•00	.48	• 6 6	.23	2.93	•00	4.3
ST PICK Z ROW	10	•00	.00	15.21	25.88	3.97	•00	•00	45.0
AUL	15	.00	.00	.00	.00	• 00	•00	5.50	5.5
ND PICK 2 ROW	10	.00	.00	7.81	13.29	2.04	•00	•00	23.1
AUL	10	.00	•00	.00	•00	•00	•00	1.37	1.3
110	10	.00	.00	.00	•00	•00	•00	44.00	44.0
TAL SPECIFIED COSTS		14.77	18.90	34.63	58.05	21.78	110.49	59.62	318.2
TEREST ON OPERATING CA	PITAL								
TAL SPECIFIED COSTS IN		INTEREST ON	00-0-7-						6.9

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.

BEACK DEEL OF HAVINEASI MI	331321441	14,00		
ITEM	UNIT	PRICE	PTITHAUG	AMOUNT
		DOLLARS		DOLLARS
INCOME COTTON LINT COTTON SEED	LB LB	•52000 •35000	550.00 853.00	286.00 42.65
TOTAL INCOME				328.65
COMMON LABOR COMMON LABOR COPERATOR LABOR SPECIAL LABOR TREFLAN FERT 8-24-24 COTORAN TENIK SOIL TREATER XXX SEED BIDRIN MSMAN FERT AMM NITRATE INSECT SCOUTING GUTHION APPLY INS AIR KARMEX (NP) EPN + METHYL PARA APPLY INS AIR KARMEX (NP) EPN + METHYL PARA APPLY INS AIR KARMEX (NP) EPN + METHYL PARA APPLY INS AIR KARMEX (NP) EPN + METHYL PARA APPLY INS AIR KARMEX (NP) EPN + METHYL PARA APPLY INS AIR KARMEX (NP) EPN + METHYL PARA APPLY INS AIR KARMEX (NP) EPN + METHYL PARA APPLY INS AIR TRACTOR TRACTOR INT ON OP CAP HAUL GIN	RRR BT BBBBBBTEBEBTEBBEEEEBB	2225757541 4 63.40.0056065497418 2226575955728056065497418 22267756065497418	1.439 2.100 1.000 2.000 2.000 2.000 2.000 2.000 1.000	3.78 12.437 5.857 11.855 11.85
TOTAL DIRECT EXPENSE				248.23
RETURNS ABOVE DIRECT	EXPENSES			80.42
FIXED EXPENSES SPECIAL EQUIPMENT EQUIPMENT TRACTOR	ACRE ACRE ACRE	46.43 11.62 18.90	1.00	46.43 11.62 18.90
TOTAL FIXED EXPENSE				76.95
TOTAL SPECIFIED EXPE	NSES			325.18
NET RETURN ABOVE SPE	CIFIED EXP	ENSES		3.47

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

OPERATION '		TRACT		EDUIPM		1	W.TERT		
DESCRIPTION	МОКТН	COST	F17ED C05T	COST	FIXED COST DOLLARS	1.4BnR c05T	MATERIAL	MISC	COS
TALK SHREDDER 2 ROF	1.1	.96	1 . 37	.08	.29	•80	• 00	.00	3.5
DEEP CHISEL II SHANK	11	1.28	1.83	1.13	1.90	1.06	.00	.00	7.2
HISEL PLOW 16 FT	11	.70	1.01	.18	.39	.58	•00	*00	2.8
DISK HARROW 21 FT	12	.45	.64	.40	.73	• 37	• 00	.00	2.5
DISK + INCOR 21 FT	3	.57	.82	.57	1.03	. 48	5.85	.00	9.3
DISK RED	3	• 41	.63	.21	. 35	• 34	•00	.00	1.9
DISK HARROW 21 FT	3	. 45	.64	.40	.73	.37	•00	.00	2.5
APPLY FERT	4	.32	.46	.52	. 88	. 26	19.37	.00	21.8
DISK BED	5	• 41	.60	.21	.35	.34	•00	.00	1 - 9
REBEN	5	• 41	.60	.21	.35	. 34	• 00	.00	1.9
ROW CONDITION	5	.39	.55	.04	+07	• 32	•00	•00	1.3
PLANT + PRE	5	.63	• 91	. 46	1.01	1 • 05	16.26	•00	20 . 3
CULTIVATE EARLY	5	.67	.96	.22	+42	.56	•00	+00	2.8
APPLY INS GROUND	5	.00	.00	. 44	•60	• 21	.84	•00	2 . 1
APPLY MSMA GROUND XZ	4	.00	.00	.88	1.20	• 42	1 • 57	.00	4 . 0
APPLY FERT	6	.32	.46	.52	.88	. 26	20 - 10	•00	22.5
CULT + POST EARLY X2	6	1.53	2.20	.58	1.10	1 . 27	5.02	•00	11.7
CULTIVATE LATE	6	. 45	.64	• 1 4	. 2 A	• 37	•00	•00	1 . 8
INSECT SCOUTING	7	.00	.00	.00	.00	• 00	•00	3.75	3.7
APPLY INS GROUND X2	7	.00	.00	.88	1 - 20	. 42	2 • 43	•00	4 . 9
APPLY INS AIR	7	.00	.00	.00	•00	• n 3	1 • 21	1.00	2
CULT + POST LATE X2	7	1.15	1.65	. 42	.82	.95	1 - 1 6	.00	6.
APPLY INS GROUND X5	Я	.00	.00	2.20	3.00	1.06	16.48	•00	22.
APPLY INS AIR X2	8	.00	.00	.00	•00	• 05	6.59	2.00	8 . 6
APPLY INS AIR X2	9	.00	.00	.00	•00	• 05	6.59	2.00	8.6
APPLY INS GROUND	,	.00	.00	.44	•60	• 21	4.08	•00	5 . :
APPLY DEFOLIATE	9	.00	.00	. 48	.66	.23	2 • 9 3	•00	4.
IST PICK 2 RON	10	.00	•00	15.21	25.88	3 . 97	•00	•00	45.0
AUL	10	.00	.00	.00	•00	•00	•00	5.50	5 . 5
NO PICK 2 ROW	- 10	.00	.00	7.81	13.29	2.04	•00	•00	23.
HAUL	10	•00	.00	.00	.00	•00	•00	1.37	1 + 3
GIN	10	.00	.00	.00	•00	• 00	•00	44.00	44.0
TAL SPECIFIED COSTS		11.09	15.73	34.63	58.01	14.45	110.49	59.62	308.2
STEREST ON OPERATING C	APITAL								6.5
OTAL SPECIFIED COSTS I	NCLUDING	INTEREST ON	OPERATIN	G CAPITAL					314.8

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.

REVER DEFI OF WALLINGWALL		4 4 4 4		
ITEM	UNIT	PRICE	RUANTITY	AMOUNT
		DOLLARS		DOLLARS
INCOME COTTON LINT	LB LB	•52000 •05000	550.00 853.00	286.00
COTTON SEED	L. 5	*63000	000100	328.65
TOTAL INCOME				
DIRECT EXPENSES COMMON LABOR OPERATOR LABOR TREFLAN FERT 8-24-24 COTORAN TEMIK SOIL TREATER XXX SEED BIDRIN MSMA NITRATE INSECT SCOUTING GUTHION APPLY INS AIR KARMEX I WP) EQUITATION APPLY INS AIR KARMEX I WP) EARNATE DEFOLIAN EQUIPMENT TRACTOR INT DN HAUL	RRRBTBBBBBBBTEBBBTEBBBEEEEBBB UUULWLLLLLLWR LRLPR LLRRRRLL CC CA A A AAAAA	2.0.655559 6.665559 6.665559 6.665559 6.66559	1.38 3.48 2.10 1.000 2.500 2.500 2.500 2.500 2.500 2.500 2.000 1.0	3.66 9.27 5.85 19.87 11.87 1.44 7.48 4.96 20.17 3.64 1.01 4.00 4.00 4.00 4.00 4.00 4.00 4.0
TOTAL DIRECT EXPENS	SE			240.88
RETURNS ABOVE DIREC	T EXPENSES			87.77
FIXED EXPENSES  SPECIAL EQUIPMENT  EQUIPMENT  TRACTOR	ACRE ACRE ACRE	46.43 11.58 15.93	1.00 1.00 1.00	46.43 11.58 15.93
TOTAL FIXED EXPENS	E			73.94
TOTAL SPECIFIED EX	PENSES			314.82
NET RETURN ABOVE 5	PECIFIED EXP	PENSES		13.83

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

DPERATION		DIRECT	FIXED	DIRECT	FIXED	LABOR	MATERIAL	MISC	TOTAL
DESCRIPTION	MONTH	COST	COST	COST	DOLLARS	COST	COST	COST	cost
	4.5					74		-	
STALK SHREDDER 2 ROW	11	1.15	1 + 57	• 78	.29	• # 0	•00	•00	3.86
DEEP CHISEL II SHANK	11	1.53	2.09	1.13	1.90	1.76	•00	•00	7.71
CHISEL PLOW 21 FT	11	.54	.73	. 18	.39	• 37	• 00	•00	2.21
DISK HARROA 28 FT	12	. 36	•52	.40	•73	. 26	•00	•00	2.30
DISK + INCOR 28 FT	3	.5c	.68	.55	1.00	.34	5.85	•00	8.9
DISK BED	3	.38	.52	.21	.36	. 26	• 00	.00	1.7
DISK HARRO# 28 FT	3	.38	.52	.40	•73	. 26	• 00	•00	2.3
APPLY FERT	4	.38	.52	.52	. 9.8	• 26	19.37	•00	21.9
DISK BED	5	.38	.52	.21	.36	.26	•00	.00	1 . 7
REBED	5	.38	.52	. 21	.36	. 26	•00	.00	1 . 7
ROW CONDITION	5	.37	.50	.04	• O P	+ 25	•00	•00	1 . 2
PLANT + PRE	5	• 5 1	+69	.38	.84	•70	16.26	•00	19.4
CULTIVATE EARLY	5	.61	.84	.26	.51	. 42	•00	•00	2.6
APPLY INS GROUND	5	.00	.00	. 44	•60	+21	.84	.00	2 . 1
APPLY MSMA GROUND X2	6	•03	.00	.88	1 - 20	• 42	1 • 57	• 0 0	4.0
APPLY FERT	6	.38	.52	.52	.88	.26	20+10	•00	22.6
CULT + POST EARLY X2	6	1.38	1.88	.66	1 . 28	.95	5.02	•00	11+1
CULTIVATE LATE	6	.38	.52	.16	+32	.26	•00	•00	1.6
INSECT SCOUTING	7	.00	.00	.00	•00	•00	•00	3.75	3.7
APPLY INS GROUND X2	7	.00	.00	. 88	1.20	. 42	2.43	.00	4.9
APPLY INS AIR	7	.00	.00	.00	•00	• 93	1 + 21	1.00	2.2
CULT + POST LATE X2	7	1.00	1.36	.48	.94	.69	1 - 1 6	•00	5.6
APPLY INS GROUND X5	8	.00	.00	2.20	3.00	1.06	16.48	•00	22.7
APPLY INS AIR X2	8	.00	.00	.00	+00	• 05	6.59	2.00	8.6
APPLY INS AIR X2	9	.00	.00	.00	•00	• 05	6.59	2.00	8.6
APPLY INS GROUND	,	.03	.00	. 44	.60	.21	4.08	.00	5.3
APPLY DEFOLIATE	9	•00	.00	.48	.66	.23	2.93	•00	4 . 3
IST PICK 2 ROW	10	•00	.00	15.21	25.88	3.97	•00	•00	45.0
HAUL	10	.00	.00	.00	.00	•00	•00	5.50	5.5
2ND PICK 2 ROK	10	•00	.00	7.81	13.29	2.04	•00	•00	23.1
HAUL	10	.00	.00	.00	•00	•00	•00	1.37	1.3
GIN	10	.00	.00	.00	.00	•00	•00	44.00	44.0
OTAL SPECIFIED COSTS		10.64	14.50	34.73	58.30	14.42	110.49	59.62	304.7
NTEREST ON OPERATING C	APITAL	77.5		212.2		. 459.5			6.4
OTAL SPECIFIED COSTS I		INTEREST OF							311.1

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.

agent age. in the chart of				
ITEM	UNIT	PRICE	PULNTITY	AMOUNT
		DOLLARS		DOLLARS
INCOME COTTON LINT COTTON SEED	LB LB	•52000 •05000	550.00 853.00	286.00
TOTAL INCOME				328.65
DIRECT EXPENSES  COMMON LABOR  OPERATOR LABOR  TREFLAN  FERT 8-24-24  COTORAN  TEMIK  SOIL TREATER XXX  SEED  BIDRIN  MSMA  FERT AMM NITRATE INSECT SCOUTING  GUTHION  APPLY INS AIR  KARMEX (WP)  EPN + METHYL PARA  APPLY INS AIR  KARMEX (WP)  EPN + METHYL PARA  APPLY INS AIR  KARMEX (WP)  EPN + DIS AIR  EPN + DIS AIR	RRRBTBBBBBBBBTEBFBTEBBBEEEEBBB 0000 C CC CC CC CCCCC A A A A AAAA	555557955728C555056065494918 ************************************	1.32 2.78 2.10005 2.00000 2.00000 2.00000 2.00000 2.00000 1.000000 1.000000 1.00000 1.000000 1.000000 1.00000000	3.49 7.55 19.37 11.44 1.42 1.42 1.42 1.43 1.44 1.43 1.44 1.44 1.44 1.44 1.44
TOTAL DIRECT EXPENSE				238.39
RETURNS ABOVE DIRECT	EXPENSES			90.26
FIXED EXPENSES  SPECIAL EQUIPMENT  EQUIPMENT  TRACTOR	ACRE ACRE ACRE	46.43 11.87 14.50	1.00 1.00 1.00	46.43 11.87 14.50
TOTAL FIXED EXPENSE				72.80
TOTAL SPECIFIED EXPE	ENSES			311.19
NET RETURN ABOVE SPE	ECIFIED FXP	ENSES		17.46

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

202000000000000000000000000000000000000		TRACT	OR	EQUIPM	FNT				
OPERATION DESCRIPTION	монтн	COST	FIXED	DIRECT	FIXED	LABOR	MATERIAL	MISC	TOTAL
					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	•90	.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	•59	.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	.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	.31	.40	. 12	. 24	. 26	• 90	.00	1.34
HAUL	9	.00	•00	• 63	•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 OFFRATING CA	PITAL								1.62
TOTAL SPECIFIED COSTS IN	CLUDING	INTEREST ON	OPFRATIN	G 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	GUANTITY	AMOUNT
		DOLLARS		DOLLARS
INCOME GRAIN SORGHUM	C₩T	3 • 25000	38.00	123.50
TOTAL INCOME				123.50
DIRECT EXPENSES COMMON LABOR OPERATOR LABOR SPECIAL LABOR SEED FERT ANHY AMMONIA 2.4-D SEVIN APPLY INS - AIR X2 SPECIAL EQUIPMENT EQUIPMENT TRACTOR INT ON OP CAP HAUL STORE - DRY - LOAD	RRRBTBBEEEEETT  OOOO C CCCCCCCCCCCCCCCCCCCCCCCCCCCCC	2.65 2.65 2.65 7.00 1.99 1.99 1.99 1.99 1.99 1.99 1.99 1	38 2.06 .20 8.00 2.50 .50 3.00 4.00 1.00 1.00 1.00 38.00 38.00	1.01 5.46 .53 4.00 17.50 5.88 4.08 2.31 6.49 1.62 2.09 26.22
TOTAL DIRECT EXPENS	E			81.58
RETURNS ABOVE DIREC	T EXPENSES			41.92
FIXED EXPENSES SPECIAL EQUIPMENT EQUIPMENT TRACTOR	ACRE ACRE ACRE	5 • 38 4 • 63 8 • 30	1.00 1.00 1.00	5.38 4.63 8.30
TOTAL FIXED EXPENSE				18.31
TOTAL SPECIFIED EXP	ENSES			97.89
NET RETURN ABOVE SP	ECIFIED EXP	ENSES		23.61

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

		TRACT	)R	EQUIPM	FNT				
DESCRIPTION	MONTH	OIRECT	FIXED	DIRECT	FIXED	LABOR	MATERIAL	MISC	TOTAL
					JUCCAN 3				
CHISEL PLON 16 FT X2	4	1.40	2.02	.36	• 7 A	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	• 5 1	• 26	• 00	•00	1 . 78
FIELD CULT 21 FT	5	.32	.46	.23	• 5 1	. 76	•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	.90	.00	.56	•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	• 1 2	+ 2 4	. 26	•00	•00	1 . 40
HAUL	9	.00	.00	.00	.00	• 00	•68	2.09	2.09
STORE - DRY - LOAD	9	•00	•00	.00	•00	• 0.0	• 00	24.22	26.22
TOTAL SPECIFIED COSTS		4 - 40	6.32	5.68	9 . 8 1	4 . 88	28 • 37	32.31	91.77
INTEREST ON OPERATING C	APITAL								1.46
TOTAL SPECIFIED COSTS I	MCLUDING	INTEREST ON	OPFRATIN	G CAPITAL					93.24
	CHISEL PLOW 16 FT X2  DISK HARROW 21 FT  FIELD CULT 21 FT  FIELD CULT 21 FT  PLANT  LIQUID FERT APPL  CULT + POST EARLY  APPLY INS = AIR X2  COMBINE 23 FT  GRAIN CART  HAUL  STORE - DRY - LOAD  TOTAL SPECIFIED COSTS  INTEREST ON OPERATING C	CHISEL PLOW 16 FT X2  DISK HARROW 21 FT  FIELD CULT 21 FT  FIELD CULT 21 FT  FIELD CULT 21 FT  S  PLANT  LIQUID FERT APPL  CULT + POST EARLY  APPLY INS = AIR X2  COMBINE 23 FT  GRAIN CART  HAUL  STORE - DRY - LOAD  TOTAL SPECIFIED COSTS  INTEREST ON OPERATING CAPITAL	OPERATION DESCRIPTION  COST  CHISEL PLOW 16 FT X2  THELD CULT 21 FT  THELD CULT 21 FT	CHISEL PLOW 16 FT X2 4 1.40 2.02  DISK HARROW 21 FT 5 .45 .64  FIELD CULT 21 FT 5 .32 .46  FIELD CULT 21 FT 5 .32 .46  PLANT 5 .45 .64  LIQUID FERT APPL 6 .38 .55  CULT + POST EARLY 7 .77 1.10  APPLY INS = AIR X2 8 .00 .00  COMBINE 23 FT 9 .00 .00  GRAIN CART 9 .32 .46  HAUL 9 .00 .00  TOTAL SPECIFIED COSTS 4.40 6.32  INTEREST ON OPERATING CAPITAL	OPERATION         MONTH         DIRECT COST COST COST         COST COST COST           CHISEL PLOW 16 FT X2         4         1.40         2.02         .36           DISK HARROW 21 FT         5         .45         .64         .40           FIELD CULT 21 FT         5         .32         .46         .23           FIELD CULT 21 FT         5         .32         .46         .23           PLANT         5         .45         .64         .29           LIQUID FERT APPL         6         .38         .55         .28           CULT + POST EARLY         7         .77         1.10         .29           APPLY INS = AIR X2         8         .00         .00         .06           COMBINE 23 FT         9         .00         .00         .348           GRAIN CART         9         .32         .46         .12           HAUL         9         .00         .00         .00           STORE - DRY = LOAD         9         .00         .00         .00           TOTAL SPECIFIED COSTS         4.40         6.32         5.68	OPERATION DESCRIPTION         MONTH         DIRECT COST         FIXED COST         DIRECT COST         FIXED COST         DIRECT COST         FIXED COST           CHISEL PLOW 16 FT X2         4         1.40         2.02         .36         .7A           DISK HARROW 21 FT         5         .45         .64         .40         .73           FIELD CULT 21 FT         5         .32         .46         .23         .51           FIELD CULT 21 FT         5         .32         .46         .23         .51           PLANT         5         .45         .64         .29         .63           LIQUID FERT APPL         6         .38         .55         .28         .48           CULT + POST EARLY         7         .77         1.10         .29         .55           APPLY INS = AIR X2         8         .00         .00         .06         .00           COMBINE 23 FT         9         .00         .00         .00         .00           GRAIN CART         9         .32         .46         .12         .24           HAUL         9         .00         .00         .00         .00           STORE - DRY = LOAD         9         .00	OPERATION DESCRIPTION         MONTH         COST COST COST COST         FIXED COST COST COST COST COST COST COST COST	OPERATION   DESCRIPTION   DIRECT   FIXED   COST   COST	DESCRIPTION

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.

DENGIN DEEL OF WANTHENST IS	112212214611	17/0.		
ITEM	UNIT	PRICE	SUANTITY	AMOUNT
		DOLLARS		DOLLARS
INCOME GRAIN SORGHUM	CWT	3 • 25000	38.00	123.50
TOTAL INCOME				123.50
DIRECT EXPENSES COMMON LABOR OPERATOR LABOR SPECIAL LABOR SEED FERT ANHY AMMONIA 2.4-D SEVIN APPLY INS - AIR X2 SPECIAL EQUIPMENT EQUIPMENT TRACTOR INT ON OP CAP HAUL STORE - DRY - LOAD	RRRBTBBEEEETT UUULWLLRRRRRRWW HHH C CCCCCC	2.65 2.65 2.65 7.00 7.00 1.99 1.99 1.99 1.99 1.46 1.46 1.46 1.46	.26 1.38 .20 8.00 2.50 .50 3.00 4.00 1.00 1.00 1.00 38.00 38.00	3.66 4.53 4.50 17.59 5.80 3.40 4.40 1.46 2.09 26.22
TOTAL DIRECT EXPENS	E			77.11
RETURNS ABOVE DIREC	T EXPENSES			46.39
FIXED EXPENSES SPECIAL EQUIPMENT EQUIPMENT TRACTOR	ACRE ACRE ACRE	5 • 38 4 • 43 6 • 32	1.00 1.00 1.00	5.38 4.43 6.32
TOTAL FIXED EXPENSE				16.13
TOTAL SPECIFIED EXP	ENSES			93.24
NET RETURN ABOVE SP	ECIFIED EXP	ENSES		30.26

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

0000 1.01		TRACT		EQUIPM	FNT				
OPERATION DESCRIPTION	HONTH	DIRECT	FIXED	COST	FIXED	COST	MATERIAL	MISC	TOTAL
					nOLLARS				
CHISEL PLON 21 FT X2	4	1.97	1.46	.36	• 78	• 74	•00	•00	4.42
DISK HARRON 28 FT	5	.38	.52	.40	• 7 3	. 26	•00	•00	2.30
FIELD CULT 21 FT	5	.39	.52	.23	• 5 1	. 26	• 00	.00	1.91
FIELD CULT 21 FT	4	.39	.52	. 23	• 5 1	. 26	• 0.0	.00	1 -91
PLANT	5	.34	.52	. 27	•60	•53	4.90	•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	• 9 9	.00	4.07
APPLY INS - AIR X2	8	.00	•00	.00	•00	•00	5 • 88	4.00	9.88
COMBINE 20 FT	9	.00	•93	3.48	5 . 38	•53	•00	•00	9.39
GRAIN CART	9	.38	.52	• 1 2	. 24	. 26	• 90	.00	1.53
HAUL.	9	•00	•00	•00	• 0 n	•00	• 50	2.09	2.09
STORE - DRY = LOAD	9	•09	.00	-00	• 22	• 10	•00	24.22	26.72
TOTAL SPECIFIED COSTS		3.98	5.43	5.65	9.74	3.76	28.37	32.31	89.29
INTEREST ON OPERATING CA	PITAL								1.40
TOTAL SPECIFIED COSTS IN	CLUCING	INTEREST ON	OPERATIN	G CAPITAL					90.69

2

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	YTITHAUG	AMOUNT
		DOLLARS		DOLLARS
INCOME GRAIN SORGHUM	CWT	3 • 25000	38.00	123.50
TOTAL INCOME				123.50
DIRECT EXPENSES  COMMON LABOR  OPERATOR LABOR  SPECIAL LABOR  SEED  FERT ANHY AMMONIA  2.4-D  SEVIN  APPLY INS = AIR X2  SPECIAL EQUIPMENT  EQUIPMENT  TRACTOR  INT ON OP CAP  HAUL  STORE - DRY = LOAD	RRRBTBBEEEETT OOOO C AAACACCC	2.65 2.65 2.65 7.00 1.99 1.90 3.48 2.17 3.98 1.40 69	.18 1.04 .20 8.00 2.50 .50 3.00 1.00 1.00 1.00 1.00 38.00 38.00	17.50 17.50
TOTAL DIRECT EXPENS	Ε			75.48
RETURNS ABOVE DIREC	T EXPENSES			48.02
FIXED EXPENSES SPECIAL EQUIPMENT EQUIPMENT TRACTOR	ACRE ACRE ACRE	5.38 4.40 5.43	1.00 1.00 1.00	5.38 4.40 5.43
TOTAL FIXED EXPENSE				15.21
TOTAL SPECIFIED EXP	ENSES			90.69
NET RETURN ABOVE SP	ECIFIED EXP	ENSES		32.81

TABLE 45 .ESTIMATED CUST PER ACRE, "HEAT FOR GRAIN. USUAL INPUT PRACTICES. 115-152 DAMP TRACTOR. BLACK BELT OF NORTHEAST MISSISSIPPI. 1978.

		TRACT	14	EQUIPM	FNT				
DESCRIPTION	понти	COST	COST	OIRFCT	FIXED	COST	MATERIAL	MISC	COST
					HOLLARY				
APPLY FERT	9	.36	.52	.52	.88	• 76	15.50	•00	18.07
CHISEL PLON 21 FT	0	.54	•73	• 18	.39	• 37	•00	•00	2.21
DISK HAREON 28 FT	13	.38	.52	.46	.73	. 26	.00	•00	2.30
SECTION HARRON	10	.31	.42	.03	.07	• 21	•00	•00	1.04
GRAIN DRILL 32 FT	10	.38	.52	.79	1.52	•52	6.16	•00	9.89
APP FERT - AIR	3	.00	.00	.00	.00	• 0.8	20.10	2.50	22.68
APP 2.4=C - AIP	4	•00	•00	.90	• 20	• 73	1 • 9 9	3.50	5.52
COMBINE 25 FT	6	• 20	.00	4.00	6 • 1 9	• 41	• 0.0	•00	10.80
GRAIN CART	6	.46	.63	. 15	. 29	• 32	•00	.00	1.84
HAUL	6	• 22	•00	•00	• 7 ٢	• 0.0	• 90	.89	.89
BURN	4	•00	•00	.00	• 21	• + 3	• 50	•00	.03
TOTAL SPECIFIED COSTS		2.45	3 . 3 4	6.07	10.07	2.70	43.75	4.99	75.26
INTEREST ON OPERATING C	APITAL								2.56
TOTAL SPECIFIED COSTS I	-CI UDING	INTERFST ON	OPERATIN	G CAPITAL					77.82

54

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	SUANTITY	AMOUNT
		DOLLARS		DOLLARS
INCOME	BU	3.00000	30.00	90.00
TOTAL INCOME		3.00.00	33.00	90.00
				70.00
DIRECT EXPENSES COMMON LABOR OPERATOR LABOR SPECIAL LABOR FERT 8=24=24 SEED FERT AMM NITRATE APP FERT - AIR 2,4=D - AIR SPECIAL EQUIPMENT EQUIPMENT TRACTOR INT ON OP CAP HAUL	RRRTBTTBEEEDUUUU ALARRRRR B	2.6555 7.070 0.700 0.700 0.700 0.700 0.750 0.750 0.756 0.756 0.756 0.756 0.756	15 .64 .23 2.00 88.00 1.00 1.00 1.00 1.00 1.00 1.00	1.69 1.69 1.5.50 20.10 2.599 3.50 2.07 2.45 2.56
TOTAL DIRECT EXPENS	E			64.42
RETURNS ABOVE DIREC	T EXPENSES			25.58
FIXED EXPENSES SPECIAL FQUIPMENT EQUIPMENT TRACTOR	ACRE ACRE ACRE	6 • 1 9 3 • 8 8 3 • 3 4	1.00 1.00 1.00	6.19 3.88 3.34
TOTAL FIXED EXPENSE				13.40
TOTAL SPECIFIED EXP	ENSES			77.82
NET RETURN ABOVE SP	ECIFIED FXP	ENSES		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, Misssissippi 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.

Mississippi State University does not discriminate on the basis of race, color, religion, national origin, sex, age, or handicap.

In conformity with Title IX of the Education Amendments of 1972 and Section 504 of the Rehabilitation Act of 1973, Dr. T. K. Martin, Vice President, 610 Allen Hall, P. O. Drawer J, Mississippi State, Mississippi 39762, office telephone number 325-3221, has been designated as the responsible employee to coordinate efforts to carry out responsibilities and make investigation of complaints relating to nondiscrimination.

