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James G. Hamill

David W. Parvin Jr.

Fred T. Cooke Jr.

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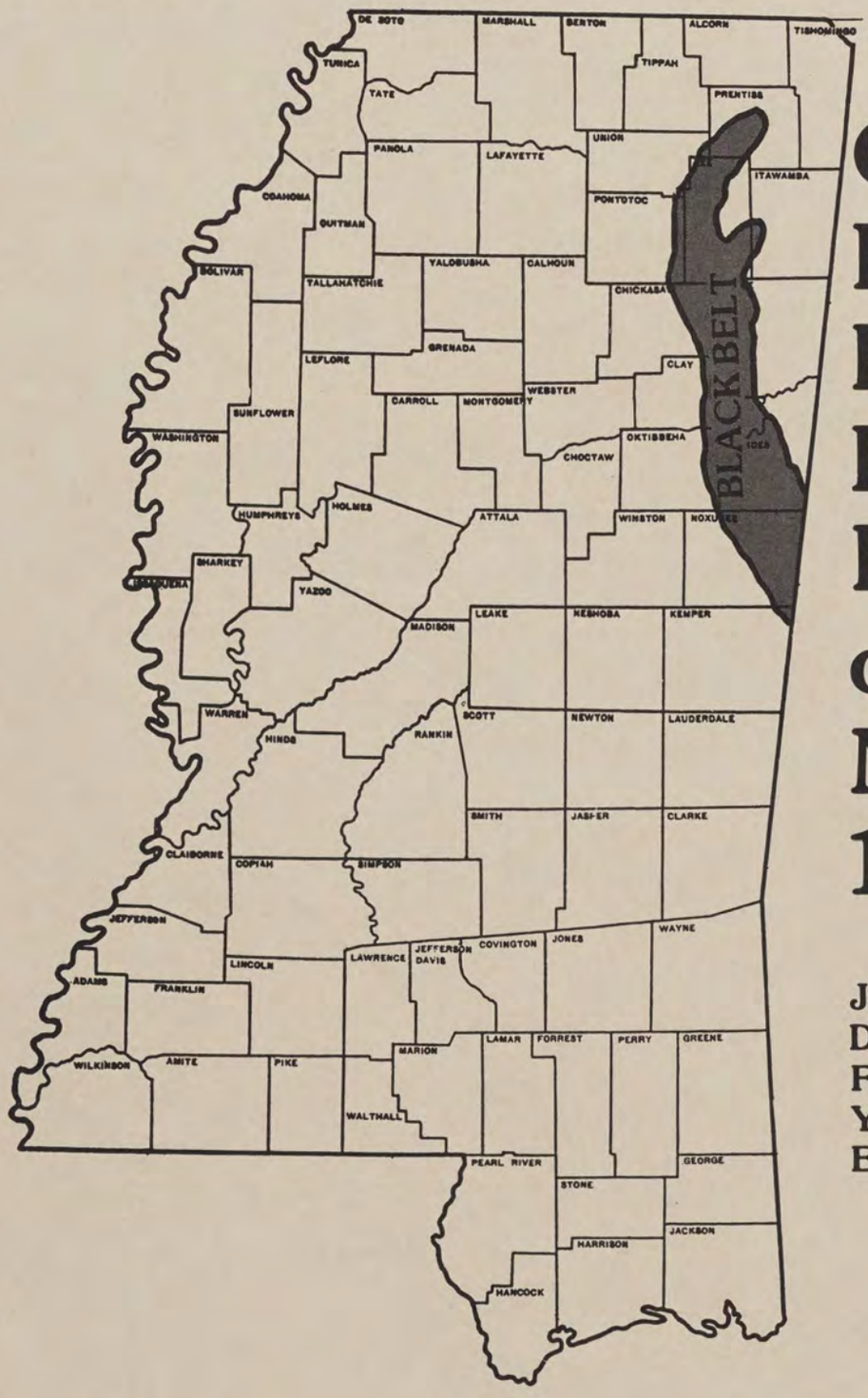
January 1981

AEC M.R.No.114



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

Mississippi State University
James D. McComas, President Louis N. Wise, Vice President

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

COST OF PRODUCTION ESTIMATES FOR THE BLACK BELT OF NORTHEAST MISSISSIPPI, 1981

By

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

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

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

Ying-Nan Lin, Research Associate, MAFES,
Departmnet of Agricultural Economics

Eugene H. Simpson III, Research Associate, MAFES,
Department of Agricultural Economics

Use of trade names in this report is for identification only and neither constitutes endorsement of these products nor implies discrimination against similar products.

ACKNOWLEDGMENTS

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 who helped to make this study possible.

Special recognition is extended to Dr. Carl Wayne Jordan, Extension Agronomist and Dr. Robert L. Williams, Extension Economist for assistance in developing this information and to Dr. Mike Williams, Area Pest Management Specialist, for developing the cotton pest management program.

Data management and computer assistance provided by Mike Davis, Trudy Dawkins and Scott Rebsamen, Department of Agricultural Economics are acknowledged. Finally, recognition and thanks are extended to Mrs. Nettie Ward, Miss Velma Jo Barham and Miss Debra Livingston 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 National 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 Special Edition, Research Highlights, MAFES, "Cost of Production Estimates for the Black Belt of Northeast Mississippi, 1980," and Cost of Production Estimates for the Black Belt of Northeast Mississippi 1980 AEC M.R. No. 93, available from the Department of Agricultural Economics, Mississippi State University. Users interested in data collection procedures and budget estimation techniques are referred to earlier publications, also available upon request.

Farmers should make 1981 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 specified expenses," which include both direct and fixed expenses (estimated in this publication) plus all other expenses such as land, management, and general farm overhead.

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COST OF PRODUCTION ESTIMATES FOR THE BLACK BELT OF NORTHEAST MISSISSIPPI, 1981

INTRODUCTION

This publication provides information on production practices, costs, and returns for specified crops grown in the Black Belt of Northeast Mississippi. The information, essential in farm planning, is, in the main, presented in tabular form, with discussion held to a minimum. For the convenience of the user, all tables have been placed after the brief discussion. Essential information on power and machinery and on prices and costs of materials and services appears in Tables 1-4. These data were used in computing the budgets for specific crops, which appear in the remaining tables.

COSTS AND RETURNS

Total specified costs (including interest on operating capital) for each of the crops, by planting pattern and size of equipment used, are summarized in Table 5. (For a discussion of those costs not included as "specified costs" see "LIMITATIONS" section below).

Soybeans

Estimated costs per acre range from $127.28 for "usual input practices," 8-row equipment, 38-inch row spacing to $166.35 for "DRILLED", 4-row equipment.

Cotton

Estimated costs per acre range from $381.08 for "usual input practices," 8-row equipment, 38-inch row spacing to $396.33 for "usual input practices," 4-row equipment and 38-inch row spacing.

Grain Sorghum

Estimated costs per acre for producing grain sorghum for grain range from $146.98 with 8-row equipment to $163.33 with 4-row equipment.

Wheat

Estimated cost per acre for producing wheat is $126.19.

Returns Above Specified Expenses

Returns to land, management, and general farm overhead per acre are summarized in Table 6. Returns are expressed in terms of various yields and prices. For example, soybeans, usual input practices, 38-inch row spacing, using 6-row equipment would return $73.84 per acre at the 25 bushel yield and $8.25 per bushel price. Were the price to rise to $9.00 per bushel the return would be $97.72. However, if the price remained at $8.25 per bushel and yield rose to 32 bushels the return would be $135.95.

LIMITATIONS

Costs presented are labeled "Total Specified Costs." Charges for land, management, and general farm overhead are not included and must be subtracted from the estimated net returns shown in Table 6 to obtain approximate returns above all production costs. Average charges based on latest available data for land, management, and general farm overhead are:[1/]

[1/] Based on 1979 USDA estimates and increased fifteen percent per year.

	Land	Management	Overhead	Total
Cotton	$73.04	$47.31	$12.59	$132.94
Soybeans	71.73	16.00	12.59	100.32
Grain sorghum	48.27	15.33	10.20	73.80
Wheat	62.88	13.69	12.56	89.13

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 (such as X¼), it is performed less frequently than annually --- in the example shown, once every four years. In the event the fraction follows an insecticide application, it denotes that fraction of the acreage that received treatment. The listed cost represents that fraction of the total cost of the single operation over all the acreage. All budgets assume a 10% replant (and harrow where appropriate). If a row condition operation is specified, it is assumed that 20% of the acreage must be row conditioned twice. The month in which the operation is performed is indicated along with direct and fixed tractor and equipment cost, labor, materials, and miscellaneous costs.

Interest on operating capital is charged at an annual rate of 14 percent for the time the capital is used. Operating capital is assumed to be borrowed to cover all specified costs except fixed costs. Costs

for self-propelled equipment appear under equipment costs. Miscellaneous costs include charges for custom services, hauling, ginning, drying and storage where appropriate.

Tractor and machinery prices and related data are included in Table 1; prices for chemicals, seed, fertilizers and other materials are presented in Tables 2 and 3. Aerial application costs are summarized in Table 4. Expected prices for 1981 are based on estimates obtained from suppliers in major agricultural producing areas of the state in November-December 1980.

These budgets do not include taxes, insurance, drainage, bookkeeping, pick-up truck expenses, land rent charges, management or other general overhead expenses. The 90-100 DBHP (drawbar horsepower, Nebraska rating) 2-wheel drive tractor, the 100-115 DBHP 2-wheel drive tractor, and the 115-150 DBHP 2 wheel drive tractor are the prime power sources assumed for all 4-row, 6-row and 8-row budgets, respectively.

Interpretation of per-acre cost estimates summarized in this report requires definition of "usual input practices." "Usual input practices" describes the practices most commonly used by farmers in the area. This set of practices more nearly describes the most common rather than the average situation.

Labor charges are divided into three categories --- operator, special, and common. Operator labor is tractor driver labor and is charged at $3.35 per hour, special labor is self-propelled equipment driver labor and is charged at $4.50 per hour, and common labor is all other labor and is charged at $3.35 per hour. Machinery charges are also divided into three categories --- special equipment, equipment, and tractor. Special equipment refers to self-propelled equipment; i.e., combines, cotton pickers, etc. Equipment refers to towed equipment.

Each budget for the production situation specified for each crop is summarized in a set of two tables --- a listing of operations and production costs in the first table, estimates of costs and returns in the second. All costs are expressed in dollars per acre. These tables allow the user to readily examine the cost of producing a crop on an operation-by-operation basis or on an item-by-item basis.

All budgets are computer generated. Non-integer numbers in the tables are rounded to two decimal places. However, within the computer program used to generate the budgets, numbers are carried to several more decimal places. The totals are more precise than the sum of the individual items, thus the row and column sums may not exactly equal the listed numbers.

NOTE: The need for herbicides and insecticides will vary not only between producers but between fields. Costs of production can be significantly decreased by reducing the use of herbicides and/or insecticides on fields that have light pressure from weeds and/or insects. If heavy pressure from weeds and/or insects prevails, increased use of herbicides and/or insecticides may be necessary.

Soybeans

Soybeans normally are planted from May 10 to June 15. Varieties have been developed to permit some variability in both planting and harvesting dates. The crop is adapted to a wide range of soil types and conditions and meshes well into overall farm organization in the Black Belt.

All operations and materials used for producing soybeans under "usual input practices", 38- and 30-inch row spacing (Tables 7-16) are

identical. Differences in these budgets are reflected in the different equipment and tractor sizes. These different tractor and equipment sizes reflect the charge for labor among the various budgets.

Operations involving tractor and towed equipment are self-explanatory. Direct and fixed charges are made for tractor and equipment along with a labor charge for a tractor driver.

Budgets for soybeans, "usual input practices," drilled are reported in Tables 17-22. These budgets assume 4-row, 6-row, and 8-row equipment sizes and their accompanying tractors. All operations are the same as soybeans planted in rows except a GRAIN DRILL operation is substituted for the PLANT operation and all cultivations are replaced by the additional use of herbicides. Budgets for drilled soybeans differ from conventially planted soybeans because of lower tractor, equipment, and labor costs, but higher material (primarily herbicides) and miscellaneous costs.

Cotton

Cotton production practices in the Black Belt of Northeast Mississippi include seedbed preparation, planting, weed control, insect control and harvesting. Seedbed preparation usually begins at the end of the previous year's harvest season and continues up to the planting date. Deep tillage is done in the fall, when possible. Most farmers intensify their seedbed preparation in February, March, and April. This is generally limited only by prevailing weather and soil type. Planting dates generally extend from April 15 to May 15. The budgets for solid cotton are reported in Tables 23-28.

Insecticide Programs--All Black Belt cotton budgets use identical insecticide programs. All applications are made by air.

Early season control includes one application of 0.20 lb. of Bidrin®, and another application of 0.07 lb. of Cygon® over 1/3 of the acreage.

The late season program includes three applications of 0.50 lb. methyl parathion per application, four applications of 1.60 lbs. EPN-methyl parathion per application, three applications of 0.10 lb. Pydrin® and 0.50 lb. methyl parathion per application in tank mix, one application of 1.60 lbs. of EPN-methyl parathion and .33 lbs. of Lannate® in tank mix, and .25 lbs. of methyl parathion applied with defoliant for diapause weevil control. Total materials cost for the standard insecticide program is $41.97.

Grain Sorghum

Tractor, equipment, and labor charges for a given operation vary from budget to budget because of differences in tractor and equipment size. Variations in tractor and equipment size cause variation in labor requirements and charges per acre (Tables 29-34).

Wheat

Inputs and costs associated with producing wheat are presented in Tables 35-36. This budget also applies to oat production except adjustments are needed to compensate for differences in seed price and costs of hauling, yield per acre, and price per bushel.

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, 1981.

Item	Size or description	Performance rate per acre	Length of life	Average annual use	Estimated 1980 price	Repair costs % of new cost	Direct Costs per hour	Direct Costs per acre	Fixed Costs per hour	Fixed Costs per acre
		hours	years	hours	dollars	percent	dollars			
Self Propelled										
Tractor	90-100	---	12	700	27,700	65	6.85	---	6.07	---
Tractor	100-115	---	12	700	32,350	55	7.63	---	7.09	---
Tractor	115-150	---	12	700	39,200	52	9.20	---	8.59	---
Tractor (with heavy disk)	200	---	12	700	59,250	49	12.18	---	12.98	---
Tractor (4-wheel drive)	200	---	12	700	72,400	49	16.74	---	15.86	---
Sprayer - high clearance	14-row	.08	8	350	21,200	80	8.33	.67	11.81	.94
Cotton picker - first picking	2-row	.75	10	200	62,500	75	28.78	21.59	53.13	39.84
Cotton picker - second picking	2-row	.55	10	200	62,500	75	28.78	15.83	53.13	29.22
Combine - grain sorghum	20 ft.	.20	8	250	58,000	80	26.65	5.33	45.24	9.05
Combine - rice	16 ft.	.70	8	250	68,100	80	32.98	23.09	53.12	37.18
Combine - rice (down)	16 ft.	1.10	8	250	68,100	80	32.98	36.28	53.12	58.43
Combine - soybean/wheat	20 ft.	.23	8	250	58,000	80	26.65	6.13	45.24	10.41
Combine - soybean/wheat	13 ft.	.36	8	250	42,000	80	20.25	7.29	32.76	11.79
Towed Equipment										
Blade - tractor mounted	7 ft.	.12	10	100	2,420	60	1.45	.17	4.11	.49
Chisel plow	12 ft.	.30	12	150	2,550	70	.99	.30	2.61	.78
Chisel plow	16 ft.	.22	12	150	3,250	70	1.26	.28	3.32	.73
Chisel plow	21 ft.	.14	12	150	7,400	70	2.88	.40	7.56	1.06
Cultivator - early	4-row	.25	12	200	3,200	80	1.07	.27	2.45	.61
Cultivator - early	6-row	.21	12	200	4,400	80	1.47	.31	3.37	.71
Cultivator - early	6-row 30 in.	.28	12	200	3,876	80	1.29	.36	2.97	.83
Cultivator - early	8-row	.16	12	200	5,800	80	1.93	.31	4.45	.71
Cultivator - early	8-row 30 in.	.21	12	200	5,200	80	1.73	.36	3.99	.84
Cultivator - late	4-row	.20	12	200	3,200	80	1.07	.21	2.45	.49
Cultivator - late	6-row	.14	12	200	4,400	80	1.47	.21	3.37	.47
Cultivator - late	6-row 30 in.	.19	12	200	3,876	80	1.29	.25	2.97	.56
Cultivator - late	8-row	.10	12	200	5,800	80	1.93	.19	4.45	.44
Cultivator - late	8-row 30 in.	.14	12	200	5,200	80	1.73	.24	3.99	.56
Cultivator + postemerge rig - early	4-row	.35	12	200	4,685	80	1.56	.55	3.59	1.26
Cultivator + postemerge rig - early	6-row	.24	12	200	6,300	80	2.10	.50	4.83	1.16
Cultivator + postemerge rig - early	6-row 30 in.	.31	12	200	5,780	80	1.93	.60	4.43	1.37
Cultivator + postemerge rig - early	8-row	.18	12	200	7,950	80	2.65	.48	6.09	1.10
Cultivator + postemerge rig - early	8-row 30 in.	.24	12	200	6,550	80	2.18	.52	5.02	1.21

Continued---

Table 1. Estimated power and machinery performance rates, estimated life, purchase price, repair costs, and direct and fixed costs per hour and per acre, Mississippi, 1981 (Continued).

Item	Size or description	Performance rate per acre	Length of life	Average annual use	Estimated 1980 price	Repair costs % of new cost	Direct Costs per hour	Direct Costs per acre	Fixed Costs per hour	Fixed Costs per acre
		hours	years	hours	dollars	percent	dollars			
Towed Equipment										
Cultivator + postemerge rig - late	4-row	.28	12	200	4,685	80	1.56	.44	3.59	1.01
Cultivator + postemerge rig - late	6-row	.18	12	200	6,300	80	2.10	.38	4.83	.87
Cultivator + postemerge rig - late	6-row 30 in.	.24	12	200	5,780	80	1.93	.46	4.43	1.06
Cultivator + postemerge rig - late	8-row	.13	12	200	7,950	80	2.65	.34	6.09	.79
Cultivator + postemerge rig - late	8-row 30 in.	.17	12	200	6,550	80	2.18	.37	5.02	.85
Deep chisel	7-shank	.45	15	100	3,800	100	2.53	1.14	5.19	2.34
Deep chisel	11-shank	.40	15	100	4,800	100	3.20	1.28	6.56	2.62
Disk harrow	14 ft.	.23	10	180	4,400	80	1.96	.45	4.16	.96
Disk harrow	21 ft.	.14	10	180	9,500	80	4.22	.59	8.97	1.26
Disk harrow	28 ft.	.10	10	180	11,200	80	4.98	.50	10.58	1.06
Disk bedder (hipper)	4-row	.21	8	160	2,600	80	1.62	.34	3.17	.67
Disk bedder (hipper)	6-row	.13	8	160	3,800	80	2.37	.31	4.63	.60
Disk bedder (hipper)	8-row	.10	8	160	4,800	80	3.00	.30	5.85	.58
Disk bedder + fertilizer	4-row	.22	8	160	4,900	80	3.06	.67	5.97	1.31
Disk bedder + fertilizer	6-row	.16	8	160	6,500	80	4.06	.65	7.92	1.27
Disk bedder + fertilizer	8-row	.12	8	160	8,100	80	5.06	.61	9.87	1.18
Disk, Heavy 180 hp+	21 ft.	.14	10	180	16,500	80	7.33	1.03	15.58	2.18
Disk, Heavy 200 hp+	27 ft.	.11	10	180	21,245	80	9.44	1.04	20.06	2.21
Disk + incorporate	14 ft.	.26	10	180	6,300	80	2.80	.73	5.95	1.55
Disk + incorporate	21 ft.	.18	10	200	10,900	80	4.36	.78	9.26	1.67
Disk + incorporate	28 ft.	.13	10	200	13,500	80	5.40	.70	11.47	1.49
Field cultivator	12 ft.	.20	10	100	2,100	65	1.36	.27	3.57	.71
Field cultivator	21 ft.	.10	10	100	5,050	65	3.28	.33	8.58	.86
Field cultivator	33.5 ft.	.08	10	100	10,973	65	7.13	.57	18.65	1.49
Field cult + incorporate	12 ft.	.23	10	100	2,940	65	1.91	.44	5.00	1.15
Field cult + incorporate	21 ft.	.12	10	100	5,676	65	3.69	.44	9.65	1.16
Field cult + incorporate	33.5 ft.	.10	10	100	12,573	65	8.17	.82	21.37	2.14
Grain cart - grain sorghum	250 bu.	.10	12	200	4,860	80	1.62	.16	3.73	.37
Grain cart - rice	250 bu.	.35	12	200	4,860	80	1.62	.57	3.73	1.30
Grain cart - soybean	250 bu.	.12	12	200	4,860	80	1.62	.19	3.73	.45
Grain cart - soybean	350 bu.	.09	12	200	5,423	80	1.81	.16	4.16	.37
Grain cart - rice	500 bu.	.18	12	200	10,384	80	3.46	.62	7.96	1.43
Grain cart - rice	350 bu.	.25	12	200	5,423	80	1.81	.45	4.16	1.04

Continued--

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, 1981 (Continued).

Item	Size or description	Perform-ance rate per acre	Length of life	Average annual use	Estimated 1980 price	Repair costs % of new cost	Direct Costs per hour	Direct Costs per acre	Fixed Costs per hour	Fixed Costs per acre
		hours	years	hours	dollars	percent	dollars			
Grain drill	12 ft.	.24	10	100	4,640	70	3.25	.78	7.89	1.89
Grain drill	32 ft.	.09	10	100	14,300	75	10.72	.97	24.31	2.19
Grain drill	36 ft.	.08	10	100	15,280	75	11.46	.92	25.98	2.08
Levee plow	--	.05	10	100	2,420	80	1.94	.10	4.11	.21
Levee plow - last pull	--	.06	10	100	2,420	80	1.94	.12	4.11	.25
Liquid fertilizer applicator	4-row	.18	8	150	3,520	80	2.35	.42	4.58	.82
Liquid fertilizer applicator	6-row	.12	8	150	4,340	80	2.89	.35	5.64	.68
Liquid fertilizer applicator	8-row	.08	8	150	5,280	80	3.52	.28	6.86	.55
Moldboard plow (2-way)	4-bottom	.30	15	120	6,300	80	2.80	.84	7.17	2.15
Pipe	30 ft.	.10	12	100	1,425	45	.53	.05	2.18	.22
Planter	4-row	.20	12	150	5,800	70	2.26	.45	5.93	1.19
Planter	6-row	.14	12	150	8,000	70	3.11	.44	8.18	1.14
Planter	6-row 30 in.	.19	12	150	7,640	70	2.97	.56	7.81	1.48
Planter	8-row	.10	12	150	11,700	70	4.55	.45	11.96	1.20
Planter	8-row 30 in.	.14	12	150	11,340	70	4.41	.62	11.59	1.62
Planter + preemerge rig	4-row	.22	12	150	6,400	70	2.49	.55	6.54	1.44
Planter + preemerge rig	6-row	.18	12	150	8,900	70	3.46	.62	9.10	1.64
Planter + preemerge rig	6-row 30 in.	.24	12	150	8,540	70	3.32	.80	8.73	2.10
Planter + preemerge rig	8-row	.12	12	150	12,900	70	5.02	.60	13.19	1.58
Planter + preemerge rig	8-row 30 in.	.16	12	150	12,540	70	4.88	.78	12.82	2.05
Row conditioner	4-row	.20	10	100	3,062	75	2.30	.46	5.21	1.04
Row conditioner	6-row	.15	10	100	5,419	75	4.06	.61	9.21	1.38
Row conditioner	8-row	.12	10	100	7,710	75	5.78	.69	13.11	1.57
Section harrow	4-row	.14	10	200	750	75	.28	.04	.64	.09
Section harrow	6-row	.10	10	200	1,150	75	.43	.04	.98	.10
Section harrow	8-row	.08	10	200	1,600	75	.60	.05	1.36	.11
Spin spreader	300 bu.	.10	8	100	6,800	80	6.80	.68	13.26	1.33
Sprayer - tractor mounted	21 ft.	.18	8	200	1,900	100	1.19	.21	1.85	.33
Stalk shredder	2-row	.30	10	185	1,900	40	.41	.12	1.75	.52
Subsoiler - parabolic	3-shank	.40	15	100	1,900	100	1.27	.51	2.60	1.04
Subsoiler - parabolic	5-shank	.24	15	100	2,700	100	1.80	.43	3.69	.89

Table 2. Estimated product and materials prices, Mississippi, 1981.

Item	Unit[1/]	Estimated price
	PRODUCTS	
		dollars
Cotton Lint:		
Low	lb.	.70
Expected	lb.	.78
High	lb.	.88
Cotton Seed:		
Low	lb.	.05
Expected	lb.	.06
High	lb.	.07
Grain Sorghum:		
Low	cwt.	4.50
Expected	cwt.	5.50
High	cwt.	6.50
Rice:		
Low	bu.	4.65
Expected	bu.	5.35
High	bu.	6.05
Soybeans:		
Low	bu.	7.50
Expected	bu.	8.25
High	bu.	9.00
Wheat:		
Low	bu.	4.00
Expected	bu.	4.50
High	bu.	5.00
	MATERIALS	
		dollars
Defoliant: -		
Def	lb.	2.75
Folex	lb.	2.75
Sodium Chlorate	lb.	.66
Herbicides:		
Atrazine	lb.	2.50
Basagran	lb.	15.65
Basalin	lb.	6.15
Bladex	lb.	3.00
Caparol (WP)	lb.	4.75
Caparol + MSMA	pt.	1.86
Cotoran	lb.	5.45
Cotoran + MSMA	pt.	2.31
Dinitro	lb.	2.53
Dowpon	lb.	1.80
DSMA	lb.	3.34
Dyanap	pt.	1.03
Karmex (WP)	lb.	2.90
Lanex	lb.	5.20
Lasso	lb.	3.95
Lorox	lb.	8.50
MSMA	lb.	1.66
MSMA + Surfactant	pt.	1.80

Continued

Table 2. Estimated product and materials prices, Mississippi, 1981 (Continued).

Item	Unit[1/]	Estimated price
		dollars
Ordram	lb.	3.74
Paraquat	lb.	18.30
Propanil	lb.	2.57
Prowl	lb.	6.43
Roundup	lb.	19.91
Sencor	lb.	16.80
Surfactant	pt.	.56
Treflan	lb.	6.57
2,4-D	lb.	4.48
2,4-DB	lb.	5.66
2,4,5-T	lb.	5.49
Zorial	lb.	6.90
Fungicides:		
Benlate	lb.	8.65
Soil Treater XXX	lb.	1.76
Stauffer 30-30	lb.	1.76
Terrachlor Super X	lb.	.33
Insecticides:		
Ambush	lb.	44.00
Azodrin	lb.	5.28
Bidrin	lb.	4.94
Bolstar	lb.	6.60
Cygon	lb.	5.16
Dipel	lb.	6.50
EPN + Methyl Parathion	pt.	2.10
Furadan	lb.	8.65
Galecron	lb.	12.25
Guthion	lb.	7.45
Lannate	lb.	11.05
Lorsban 4E	lb.	6.90
Methyl Parathion	lb.	2.15
Orthene 75S	lb.	6.85
Pounce	lb.	44.00
Pydrin	lb.	44.00
Sevin	lb.	2.35
Toxaphene	lb.	1.08
Toxaphene + Methyl Parathion	pt.	1.23
Temik	lb.	12.33
Fuel, Diesel	gal.	.99

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

Table 3. Estimated seed, fertilizer, and lime prices, Mississippi, 1981.

Item	Unit	Estimated price
		dollars
Seed:		
Cotton, double treated	lb.	.375
Cotton, triple treated	lb.	.41
Grain sorghum	lb.	.76
Soybean	lb.	.27
Wheat	lb.	.16
Rice	lb.	.26
Fertilizer:		
0-15-30	cwt.	8.85
0-24-24	cwt.	8.85
8-24-24	cwt.	10.10
13-13-13	cwt.	8.25
13-13-13 + Boron	cwt.	8.45
Ammonium nitrate (32%)	cwt.	7.50
Anhydrous ammonia (82%)	cwt.	10.03
Solubor	lb.	.40
Urea, solid (45%)	cwt.	10.23
Urea, liquid (32%)	cwt.	6.18
Lime, custom application		
Delta	ton	20.00
Northern Brown Loam	ton	19.00
Sand Clay Hills	ton	15.00
Black Belt	ton	13.00
Central Brown Loam	ton	22.00
Potash	cwt.	7.50
Triple Super Phosphate	cwt.	11.25

Table 4. Summary of aerial application costs, Mississippi, 1981.

Application activity	Cost per acre	Cost per 100 pounds
	dollars	dollars
Fertilizer		3.25
Insecticide:		
2 gallon mix	1.75	
3 gallon mix	2.00	
5 gallon mix	2.50	
Defoliant	2.50	
Seed		3.25
Herbicide:		
2,4-D	5.00	
2,4,5-T	5.00	
5 gallon mix	2.50	
Ordram	3.00	
Propanil	4.25	

Table 5. Summary of estimated cost per acre for soybeans, cotton, grain sorghum and wheat, Black Belt of Northeast Mississippi, 1981.

Crop	Row Space	Equipment Size	Tractor		Equipment		Labor Cost	Material Cost	Misc. Cost	Total Specified Cost	Interest on Operating Capital	Total Cost
			Direct Cost	Fixed Cost	Direct Cost	Fixed Cost						
	inches		dollars									
Soybeans - usual input practices	38	4-row	16.99	15.05	11.38	21.64	10.66	50.28	9.25	135.26	7.51	142.77
	38	6-row	13.00	12.08	11.37	21.61	7.84	50.28	9.25	125.44	6.97	132.41
	38	8-row	11.38	10.58	10.99	22.39	5.66	50.28	9.25	120.53	6.75	127.28
	30	6-row	13.90	12.32	11.68	22.39	9.12	53.59	9.25	132.23	7.94	140.17
	30	8-row	12.80	11.90	11.51	23.69	6.32	53.59	9.25	129.06	7.14	136.20
Soybeans - usual input practices	Drilled	4-row	13.97	12.41	11.12	19.68	9.30	80.68	9.25	156.41	9.94	166.35
Soybeans - usual input practices	Drilled	6-row	10.33	9.60	9.86	18.02	7.04	80.68	14.25	149.78	9.68	159.46
Soybeans - usual input practices	Drilled	8-row	10.07	9.40	9.81	19.55	5.64	80.68	14.25	149.41	9.63	159.04
Cotton - usual input practices	38	4-row	25.48	22.58	38.70	74.31	22.18	113.34	85.91	382.51	13.83	396.33
	38	6-row	20.51	19.06	38.61	74.16	18.58	113.34	85.91	370.17	13.13	383.29
	38	8-row	19.21	17.94	39.32	76.08	16.35	113.34	85.91	368.15	12.93	381.08
Grain sorghum - for grain	38	4-row	16.03	14.20	11.48	21.35	10.80	42.32	42.40	158.58	4.75	163.33
	38	6-row	12.93	11.97	11.60	21.69	8.35	42.32	42.40	151.26	4.42	155.68
	38	8-row	11.40	10.61	10.06	20.14	5.82	42.32	42.40	142.75	4.23	146.98
Wheat	--	115-150 DBHP	8.68	8.11	8.18	15.28	5.12	61.26	18.60	125.23	7.79	133.02

Table 6. Estimated per acre returns to land, management and general 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, 1981.

Crop Description	Row Space	Equipment Size	Yield	Price Levels 1/ Low	Expected	High
	inches			dollars		
Soybeans - usual input practices	38	4-row	18 bushels	-7.00	6.50	20.00
			25 bushels	44.73	63.48	82.23
			32 bushels	96.46	120.46	144.46
Soybeans - usual input practices	38	6-row	18 bushels	3.36	16.86	30.36
			25 bushels	55.09	73.84	92.59
			32 bushels	106.82	130.82	154.82
Soybeans - usual input practices	38	8-row	18 bushels	8.49	21.99	35.49
			25 bushels	60.22	78.97	97.72
			32 bushels	111.95	135.95	159.95
Soybeans - usual input practices	30	6-row	18 bushels	-4.40	9.10	22.60
			25 bushels	47.33	66.08	84.83
			32 bushels	99.06	123.06	147.06
Soybeans - usual input practices	30	8-row	18 bushels	-.43	13.07	26.57
			25 bushels	51.30	70.05	88.80
			32 bushels	103.03	127.03	151.03
Soybeans - usual input practices	Drilled	4-row	18 bushels	-30.58	-17.08	-3.58
			25 bushels	21.15	39.90	58.65
			32 bushels	72.88	96.88	120.88
Soybeans - usual input practices	Drilled	6-row	18 bushels	-23.69	-10.19	3.31
			25 bushels	28.04	46.79	65.54
			32 bushels	79.77	103.77	127.77
Soybeans - usual input practices	Drilled	8-row	18 bushels	-23.27	-9.77	3.73
			25 bushels	28.46	47.21	65.96
			32 bushels	80.19	104.19	128.19
Cotton - usual input practices	38	4-row	500 lb. lint	-2.58	45.17	102.92
			550 lb. lint	31.32	83.85	147.38
			600 lb. lint	65.17	122.47	191.77
Cotton - usual input practices	38	6-row	500 lb. lint	10.46	58.21	145.96
			550 lb. lint	44.36	96.89	160.42
			600 lb. lint	78.21	135.51	204.81
Cotton - usual input practices	38	8-row	500 lb. lint	12.67	60.42	118.17
			550 lb. lint	46.57	99.10	162.63
			600 lb. lint	80.42	137.72	207.02
Grain sorghum - usual input practices	38	4-row	35 cwt.	-1.03	33.97	68.97
			40 cwt.	16.67	56.67	96.67
			45 cwt.	34.37	79.37	124.37
Grain sorghum - usual input practices	38	6-row	35 cwt.	6.62	41.62	76.62
			40 cwt.	24.32	64.32	104.32
			45 cwt.	42.02	87.02	132.02
Grain sorghum - usual input practices	38	8-row	35 cwt.	15.32	50.32	85.32
			40 cwt.	33.02	73.02	113.02
			45 cwt.	50.72	95.72	140.72
Wheat - usual input practices	—	115-150 DBHP	30 bushels	-12.47	2.53	17.53
			35 bushels	6.98	24.48	41.98
			40 bushels	26.43	46.43	66.43

1/ Cotton: $.70, $.78 and $.88/lb. for low, expected and high lint prices, respectively. Price of cottonseed was assumed to be $.05, $.06 and $.07/lb. when lint prices were $.70, $.78 and $.88, respectively. Soybeans: $7.50, $8.25 and $9.00/bu. for low, expected and high price levels, respectively. Wheat: $4.00, $4.50 and $5.00/bu. for low, expected and high price levels, respectively. Grain sorghum: $4.50, $5.50 and $6.50/cwt. for low, expected and high price levels, respectively.

TABLE 7 .ESTIMATED COST PER ACRE, SOYBEANS, USUAL INPUT PRACTICES, 4 ROW EQUIPMENT, 38 INCH ROW SPACING, BLACK BELT OF NORTHEAST MISSISSIPPI, 1981.

OPERATION DESCRIPTION	MONTH	TRACTOR DIRECT COST	TRACTOR FIXED COST	EQUIPMENT DIRECT COST	EQUIPMENT FIXED COST	LABOR COST	MATERIAL COST	MISC COST	TOTAL COST
		DOLLARS							
APPLY LIME X1/4	11	.00	.00	.00	.00	.00	.00	6.50	6.50
APPLY FERT	3	.68	.61	.68	1.33	.33	17.70 1/	.00	21.34
CHISEL PLOW 12 FT	3	2.06	1.82	.30	.78	1.00	.00	.00	5.96
CHISEL PLOW 12 FT	3	2.06	1.82	.30	.78	1.00	.00	.00	5.96
FIELD CULT 12 FT	3	1.37	1.21	.27	.71	.67	.00	.00	4.23
FIELD CULT + INCORP	4	1.58	1.40	.44	1.15	.77	6.57 2/	.00	11.90
FIELD CULT 12 FT	5	1.37	1.21	.27	.71	.67	.00	.00	4.23
PLANT	5	1.51	1.34	.49	1.31	1.47	13.36 3/	.00	19.49
CULTIVATE EARLY	6	1.71	1.52	.27	.61	.84	.00	.00	4.95
CULT + POST LATE	6	1.92	1.70	.44	1.01	.94	7.82 4/	.00	13.83
CULT + POST LATE	7	1.92	1.70	.44	1.01	.94	4.82 5/	.00	10.82
COMBINE 13FT SB/WH	10	.00	.00	7.29	11.79	1.62	.00	.00	20.70
GRAIN CART (250 BU)	10	.82	.73	.19	.45	.40	.00	.00	2.59
HAUL	10	.00	.00	.00	.00	.00	.00	2.75	2.75
TOTAL SPECIFIED COSTS		16.99	15.05	11.38	21.64	10.66	50.28	9.25	135.26
INTEREST ON OPERATING CAPITAL									7.51
TOTAL SPECIFIED COSTS INCLUDING INTEREST ON OPERATING CAPITAL									142.77

1/ Fertilizer, 0-15-30. 2/ Treflan. 3/ Seed. 4/ Basagran. 5/ Lorox and 2,4-DB.

TABLE 8 .ESTIMATED COSTS AND RETURNS PER ACRE
SOYBEANS, USUAL INPUT PRACTICES, 4 ROW EQUIPMENT, 38 INCH ROW SPACING,
BLACK BELT OF NORTHEAST MISSISSIPPI, 1981.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT
		DOLLARS		DOLLARS
INCOME				
SOYBEANS	BU	8.25000	25.00	206.25
TOTAL INCOME				206.25
DIRECT EXPENSES				
OPERATOR LABOR	HOUR	3.35	3.06	10.66
SPECIAL LABOR	HOUR	4.50	.36	1.62
APPLY LIME X1/4	TON	13.00	.50	6.50
0-15-30	CWT	8.85	2.00	17.70
TREFLAN	LB	6.57	1.00	6.57
SEED	LB	.27	49.50	13.36
BASAGRAN	LB	15.65	.50	7.82
LOROX	LB	8.50	.50	4.25
2,4-DB	LB	5.66	.10	.57
SPECIAL EQUIPMENT	ACRE	7.29	1.00	7.29
EQUIPMENT	ACRE	4.09	1.00	4.09
TRACTOR	ACRE	16.99	1.00	16.99
INT ON OP CAP	ACRE	7.51	1.00	7.51
HAUL	BU	.11	25.00	2.75
TOTAL DIRECT EXPENSE				106.08
RETURNS ABOVE DIRECT EXPENSES				100.17
FIXED EXPENSES				
SPECIAL EQUIPMENT	ACRE	11.79	1.00	11.79
EQUIPMENT	ACRE	9.85	1.00	9.85
TRACTOR	ACRE	15.05	1.00	15.05
TOTAL FIXED EXPENSE				36.69
TOTAL SPECIFIED EXPENSES				142.77
RETURNS ABOVE SPECIFIED EXPENSES				63.48

TABLE 9 .ESTIMATED COST PER ACRE, SOYBEANS, USUAL INPUT PRACTICES, 6 ROW EQUIPMENT, 38 INCH ROW SPACING, BLACK BELT OF NORTHEAST MISSISSIPPI, 1981.

OPERATION DESCRIPTION	MONTH	TRACTOR DIRECT COST	TRACTOR FIXED COST	EQUIPMENT DIRECT COST	EQUIPMENT FIXED COST	LABOR COST	MATERIAL COST	MISC COST	TOTAL COST
		DOLLARS							
APPLY LIME X1/4	11	.00	.00	.00	.00	.00	.00	6.50	6.50
APPLY FERT	3	.76	.71	.68	1.33	.33	17.70[1/]	.00	21.52
CHISEL PLOW 16 FT	3	1.68	1.56	.28	.73	.74	.00	.00	4.99
CHISEL PLOW 16 FT	3	1.68	1.56	.28	.73	.74	.00	.00	4.99
FIELD CULT 21 FT	3	.76	.71	.33	.86	.33	.00	.00	3.00
FIELD CULT + INCORP	4	.92	.85	.44	1.16	.40	6.57[2/]	.00	10.34
FIELD CULT 21 FT	5	.76	.71	.33	.86	.33	.00	.00	3.00
PLANT	5	1.18	1.09	.48	1.25	1.03	13.36[3/]	.00	18.40
CULTIVATE EARLY	6	1.60	1.49	.31	.71	.70	.00	.00	4.81
CULT + POST LATE	6	1.37	1.28	.38	.87	.60	7.82[4/]	.00	12.33
CULT + POST LATE	7	1.37	1.28	.38	.87	.60	4.82[5/]	.00	9.32
COMBINE 13FT SB/WH	10	.00	.00	7.29	11.79	1.62	.00	.00	20.70
GRAIN CART (250 BU)	10	.92	.85	.19	.45	.40	.00	.00	2.81
HAUL	10	.00	.00	.00	.00	.00	.00	2.75	2.75
TOTAL SPECIFIED COSTS		13.00	12.08	11.37	21.61	7.84	50.28	9.25	125.44
INTEREST ON OPERATING CAPITAL									6.97
TOTAL SPECIFIED COSTS INCLUDING INTEREST ON OPERATING CAPITAL									132.41

[1/]Fertilizer, 0-15-30. [2/]Treflan. [3/]Seed. [4/]Basagran. [5/]Lorox and 2,4-DB.

TABLE 10 .ESTIMATED COSTS AND RETURNS PER ACRE
SOYBEANS, USUAL INPUT PRACTICES, 6 ROW EQUIPMENT, 38 INCH ROW SPACING,
BLACK BELT OF NORTHEAST MISSISSIPPI, 1981.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT
		DOLLARS		DOLLARS
INCOME				
SOYBEANS	BU	8.25000	25.00	206.25
TOTAL INCOME				206.25
DIRECT EXPENSES				
OPERATOR LABOR	HOUR	3.35	2.22	7.84
SPECIAL LABOR	HOUR	4.50	.36	1.62
APPLY LIME X1/4	TON	13.00	.50	6.50
0-15-30	CWT	8.85	2.00	17.70
TREFLAN	LB	6.57	1.00	6.57
SEED	LB	.27	49.50	13.36
BASAGRAN	LB	15.65	.50	7.82
LOROX	LB	8.50	.50	4.25
2,4-DB	LB	5.66	.10	.57
SPECIAL EQUIPMENT	ACRE	7.29	1.00	7.29
EQUIPMENT	ACRE	4.08	1.00	4.08
TRACTOR	ACRE	13.00	1.00	13.00
INT ON OP CAP	ACRE	6.97	1.00	6.97
HAUL	BU	.11	25.00	2.75
TOTAL DIRECT EXPENSE				98.71
RETURNS ABOVE DIRECT EXPENSES				107.54
FIXED EXPENSES				
SPECIAL EQUIPMENT	ACRE	11.79	1.00	11.79
EQUIPMENT	ACRE	9.82	1.00	9.82
TRACTOR	ACRE	12.08	1.00	12.08
TOTAL FIXED EXPENSE				33.70
TOTAL SPECIFIED EXPENSES				132.41
RETURNS ABOVE SPECIFIED EXPENSES				73.84

TABLE 11 .ESTIMATED COST PER ACRE, SOYBEANS, USUAL INPUT PRACTICES, 8 ROW EQUIPMENT, 38 INCH ROW SPACING, BLACK BELT OF NORTHEAST MISSISSIPPI, 1981.

OPERATION DESCRIPTION	MONTH	TRACTOR DIRECT COST	TRACTOR FIXED COST	EQUIPMENT DIRECT COST	EQUIPMENT FIXED COST	LABOR COST	MATERIAL COST	MISC COST	TOTAL COST
		DOLLARS							
APPLY LIME X1/4	11	.00	.00	.00	.00	.00	.00	6.50	6.50
APPLY FERT	3	.92	.86	.68	1.33	.33	17.70 1/	.00	21.82
CHISEL PLOW 21 FT	3	1.29	1.20	.40	1.06	.47	.00	.00	4.42
CHISEL PLOW 21 FT	3	1.29	1.20	.40	1.06	.47	.00	.00	4.42
FIELD CULT 33.5FT	3	.74	.69	.57	1.49	.27	.00	.00	3.75
FIELD CULT 33.5FT	4	.74	.69	.57	1.49	.27	6.57 2/	.00	10.32
FIELD CULT 33.5FT	5	.74	.69	.57	1.49	.27	.00	.00	3.75
PLANT	5	1.01	.94	.49	1.32	.74	13.36 3/	.00	17.87
CULTIVATE EARLY	6	1.47	1.37	.31	.71	.54	.00	.00	4.40
CULT + POST LATE	6	.89	.79	.34	.79	.44	7.82 4/	.00	11.07
CULT + POST LATE	7	1.20	1.12	.34	.79	.44	4.82 5/	.00	8.69
COMBINE 20 FT	10	.00	.00	6.13	10.41	1.03	.00	.00	17.57
GRAIN CART (250 BU)	10	1.10	1.03	.19	.45	.40	.00	.00	3.18
HAUL	10	.00	.00	.00	.00	.00	.00	2.75	2.75
TOTAL SPECIFIED COSTS		11.38	10.58	10.99	22.39	5.66	50.28	9.25	120.53
INTEREST ON OPERATING CAPITAL									6.75
TOTAL SPECIFIED COSTS INCLUDING INTEREST ON OPERATING CAPITAL									127.28

1/ Fertilizer, 0-15-30. 2/ Treflan. 3/ Seed. 4/ Basagran. 5/ Lorox and 2,4-DB.

TABLE 12 .ESTIMATED COSTS AND RETURNS PER ACRE SOYBEANS, USUAL INPUT PRACTICES, 8 ROW EQUIPMENT, 38 INCH ROW SPACING, BLACK BELT OF NORTHEAST MISSISSIPPI, 1981.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT
		DOLLARS		DOLLARS
INCOME				
SOYBEANS	BU	8.25000	25.00	206.25
TOTAL INCOME				206.25
DIRECT EXPENSES				
OPERATOR LABOR	HOUR	3.35	1.61	5.66
SPECIAL LABOR	HOUR	4.50	.23	1.03
APPLY LIME X1/4	TON	13.00	.50	6.50
0-15-30	CWT	8.85	2.00	17.70
TREFLAN	LB	6.57	1.00	6.57
SEED	LB	.27	49.50	13.36
BASAGRAN	LB	15.65	.50	7.82
LOROX	LB	8.50	.50	4.25
2,4-DB	LB	5.66	.10	.57
SPECIAL EQUIPMENT	ACRE	6.13	1.00	6.13
EQUIPMENT	ACRE	4.86	1.00	4.86
TRACTOR	ACRE	11.38	1.00	11.38
INT ON OP CAP	ACRE	6.75	1.00	6.75
HAUL	BU	.11	25.00	2.75
TOTAL DIRECT EXPENSE				94.31
RETURNS ABOVE DIRECT EXPENSES				111.94
FIXED EXPENSES				
SPECIAL EQUIPMENT	ACRE	10.41	1.00	10.41
EQUIPMENT	ACRE	11.98	1.00	11.98
TRACTOR	ACRE	10.58	1.00	10.58
TOTAL FIXED EXPENSE				32.97
TOTAL SPECIFIED EXPENSES				127.28
RETURNS ABOVE SPECIEIED EXPENSES				78.97

TABLE 13 .ESTIMATED COST PER ACRE, SOYBEANS, USUAL INPUT PRACTICES, 6 ROW EQUIPMENT, 30 INCH ROW SPACING, BLACK BELT OF NORTHEAST MISSISSIPPI, 1981.

OPERATION DESCRIPTION	MONTH	TRACTOR DIRECT COST	TRACTOR FIXED COST	EQUIPMENT DIRECT COST	EQUIPMENT FIXED COST	LABOR COST	MATERIAL COST	MISC COST	TOTAL COST
		DOLLARS							
APPLY LIME X1/4	11	.00	.00	.00	.00	.00	.00	6.50	6.50
APPLY FERT	3	.68	.61	.68	1.33	.33	17.70 1/	.00	21.34
CHISEL PLOW 16 FT X2	3	3.01	2.67	.56	1.46	1.47	.00	.00	9.18
FIELD CULT 21 FT	3	.68	.61	.33	.86	.33	.00	.00	2.82
FIELD CULT + INCORP	4	.82	.73	.44	1.16	.40	6.57 2/	.00	10.12
FIELD CULT 21 FT	5	.68	.61	.33	.86	.33	.00	.00	2.82
PLANT	5	1.43	1.27	.62	1.63	1.40	13.36 3/	.00	19.71
CULTIVATE EARLY	6	1.92	1.70	.36	.83	.94	.00	.00	5.75
CULT + POST LATE	6	1.92	1.70	.44	1.01	.94	9.86 4/	.00	15.87
CULT + POST LATE	7	1.92	1.70	.44	1.01	.94	6.09 5/	.00	12.10
COMBINE 13FT SP/WH	10	.00	.00	7.29	11.79	1.62	.00	.00	20.70
GRAIN CART (250 BU)	10	.82	.73	.19	.45	.40	.00	.00	2.59
HAUL	10	.00	.00	.00	.00	.00	.00	2.75	2.75
TOTAL SPECIFIED COSTS		13.90	12.32	11.68	22.39	9.12	53.59	9.25	132.23
INTEREST ON OPERATING CAPITAL									7.94
TOTAL SPECIFIED COSTS INCLUDING INTEREST ON OPERATING CAPITAL									140.17

1/ Fertilizer, 0-15-30. 2/ Treflan. 3/ Seed. 4/ Basagran. 5/ Lorox and 2,4-DB.

TABLE 14 .ESTIMATED COSTS AND RETURNS PER ACRE SOYBEANS, USUAL INPUT PRACTICES, 6 ROW EQUIPMENT, 30 INCH ROW SPACING, BLACK BELT OF NORTHEAST MISSISSIPPI, 1981.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT
		DOLLARS		DOLLARS
INCOME				
SOYBEANS	BU	8.25000	25.00	206.25
TOTAL INCOME				206.25
DIRECT EXPENSES				
OPERATOR LABOR	HOUR	3.35	2.60	9.12
SPECIAL LABOR	HOUR	4.50	.36	1.62
APPLY LIME X1/4	TON	13.00	.50	6.50
0-15-30	CWT	8.85	2.00	17.70
TREFLAN	LB	6.57	1.00	6.57
SEED	LB	.27	49.50	13.36
BASAGRAN	LB	15.65	.63	9.86
LOROX	LB	8.50	.63	5.36
2,4-DB	LB	5.66	.13	.74
SPECIAL EQUIPMENT	ACRE	7.29	1.00	7.29
EQUIPMENT	ACRE	4.39	1.00	4.39
TRACTOR	ACRE	13.90	1.00	13.90
INT ON OP CAP	ACRE	7.94	1.00	7.94
HAUL	BU	.11	25.00	2.75
TOTAL DIRECT EXPENSE				105.47
RETURNS ABOVE DIRECT EXPENSES				100.78
FIXED EXPENSES				
SPECIAL EQUIPMENT	ACRE	11.79	1.00	11.79
EQUIPMENT	ACRE	10.60	1.00	10.60
TRACTOR	ACRE	12.32	1.00	12.32
TOTAL FIXED EXPENSE				34.70
TOTAL SPECIFIED EXPENSES				140.17
RETURNS ABOVE SPECIFIED EXPENSES				66.08

TABLE 15 .ESTIMATED COST PER ACRE, SOYBEANS, USUAL INPUT PRACTICES, 8 ROW EQUIPMENT, 30 INCH ROW SPACING, BLACK BELT OF NORTHEAST MISSISSIPPI, 1981.

OPERATION DESCRIPTION	MONTH	TRACTOR DIRECT COST	TRACTOR FIXED COST	EQUIPMENT DIRECT COST	EQUIPMENT FIXED COST	LABOR COST	MATERIAL COST	MISC COST	TOTAL COST
		DOLLARS							
APPLY LIME X1/4	11	.00	.00	.00	.00	.00	.00	6.50	6.50
APPLY FERT	3	.92	.86	.68	1.33	.33	17.70 1/	.00	21.82
CHISEL PLOW 21 FT	3	1.29	1.20	.40	1.06	.47	.00	.00	4.42
CHISEL PLOW 21 FT	3	1.29	1.20	.40	1.06	.47	.00	.00	4.42
FIELD CULT 33.5FT	3	.74	.69	.57	1.49	.27	.00	.00	3.75
FIELD CULT + INCORP	4	.92	.86	.82	2.14	.33	6.57 2/	.00	11.64
FIELD CULT 33.5FT	4	.74	.69	.57	1.49	.27	.00	.00	3.75
PLANT	5	1.42	1.32	.68	1.78	1.03	13.36 3/	.00	19.60
CULTIVATE EARLY	6	1.93	1.80	.36	.84	.70	.00	.00	5.64
CULT + POST LATE	6	.89	.79	.34	.79	.44	9.86 4/	.00	13.10
CULT + POST LATE	7	1.56	1.46	.37	.85	.57	6.09 5/	.00	10.90
COMBINE 20 FT	10	.00	.00	6.13	10.41	1.03	.00	.00	17.57
GRAIN CART (250 BU)	10	1.10	1.03	.19	.45	.40	.00	.00	3.18
HAUL	10	.00	.00	.00	.00	.00	.00	2.75	2.75
TOTAL SPECIFIED COSTS		12.80	11.90	11.51	23.69	6.32	53.59	9.25	129.06
INTEREST ON OPERATING CAPITAL									7.14
TOTAL SPECIFIED COSTS INCLUDING INTEREST ON OPERATING CAPITAL									136.20

1/Fertilizer, 0-15-30. 2/Treflan., 3/Seed. 4/Basagran. 5/Lorox and 2,4-DB.

TABLE 16 .ESTIMATED COSTS AND RETURNS PER ACRE
SOYBEANS, USUAL INPUT PRACTICES, 8 ROW EQUIPMENT, 30 INCH ROW SPACING,
BLACK BELT OF NORTHEAST MISSISSIPPI, 1981.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT
		DOLLARS		DOLLARS
INCOME				
SOYBEANS	BU	8.25000	25.00	206.25
TOTAL INCOME				206.25
DIRECT EXPENSES				
OPERATOR LABOR	HOUR	3.35	1.81	6.32
SPECIAL LABOR	HOUR	4.50	.23	1.03
APPLY LIME X1/4	TON	13.00	.50	6.50
0-15-30	CWT	8.85	2.00	17.70
TREFLAN	LB	6.57	1.00	6.57
SEED	LB	.27	49.50	13.36
BASAGRAN	LB	15.65	.63	9.86
LOROX	LB	8.50	.63	5.36
2,4-DB	LB	5.66	.13	.74
SPECIAL EQUIPMENT	ACRE	6.13	1.00	6.13
EQUIPMENT	ACRE	5.38	1.00	5.38
TRACTOR	ACRE	12.80	1.00	12.80
INT ON OP CAP	ACRE	7.14	1.00	7.14
HAUL	BU	.11	25.00	2.75
TOTAL DIRECT EXPENSE				100.60
RETURNS ABOVE DIRECT EXPENSES				105.65
FIXED EXPENSES				
SPECIAL EQUIPMENT	ACRE	10.41	1.00	10.41
EQUIPMENT	ACRE	13.28	1.00	13.28
TRACTOR	ACRE	11.90	1.00	11.90
TOTAL FIXED EXPENSE				35.60
TOTAL SPECIFIED EXPENSES				136.20
RETURNS ABOVE SPECIFIED EXPENSES				70.05

TABLE 17 .ESTIMATED COST PER ACRE, DRILLED SOYBEANS, USUAL INPUT PRACTICES, 4 ROW EQUIPMENT, BLACK BELT OF NORTHEAST MISSISSIPPI, 1981.

OPERATION DESCRIPTION	MONTH	TRACTOR DIRECT COST	TRACTOR FIXED COST	EQUIPMENT DIRECT COST	EQUIPMENT FIXED COST	LABOR COST	MATERIAL COST	MISC COST	TOTAL COST
		DOLLARS							
APPLY LIME X1/4	11	.00	.00	.00	.00	.00	.00	6.50	6.50
APPLY FERT	3	.76	.71	.68	1.33	.33	17.70[1/]	.00	21.52
CHISEL PLOW 12 FT	3	2.06	1.82	.30	.78	1.00	.00	.00	5.96
CHISEL PLOW 12 FT	3	2.06	1.82	.30	.78	1.00	.00	.00	5.96
FIELD CULT 12 FT	3	1.37	1.21	.27	.71	.67	.00	.00	4.23
FIELD CULT + INCORP	4	1.58	1.40	.44	1.15	.77	26.65[2/]	.00	31.99
FIELD CULT 12 FT	4	1.37	1.21	.27	.71	.67	.00	.00	4.23
SECTION HARROW	5	1.05	.93	.04	.10	.52	.00	.00	2.65
GRAIN DRILL 12 FT	5	1.81	1.60	.00	.00	1.77	20.79[3/]	.00	25.97
APPLY HERB GROUND	5	.55	.49	.67	.94	.27	3.79[4/]	.00	6.71
APPLY HERB GROUND	6	.55	.49	.67	.94	.27	11.74[5/]	.00	14.65
COMBINE 13FT SB/WH	10	.00	.00	7.29	11.79	1.62	.00	.00	20.70
GRAIN CART (250 BU)	10	.82	.73	.19	.45	.40	.00	.00	2.59
HAUL	10	.00	.00	.00	.00	.00	.00	2.75	2.75
TOTAL SPECIFIED COSTS		13.97	12.41	11.12	19.68	9.30	80.68	9.25	156.41
INTEREST ON OPERATING CAPITAL									9.94
TOTAL SPECIFIED COSTS INCLUDING INTEREST ON OPERATING CAPITAL									166.35

[1/]Fertilizer, 0-15-30. [2/]Treflan and Sencor. [3/]Seed. [4/]Dinitro. [5/]Basagran.

TABLE 18 .ESTIMATED COSTS AND RETURNS PER ACRE
DRILLED SOYBEANS, USUAL INPUT PRACTICES, 4 ROW EQUIPMENT,
BLACK BELT OF NORTHEAST MISSISSIPPI, 1981.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT
		DOLLARS		DOLLARS
INCOME				
SOYBEANS	BU	8.25000	25.00	206.25
TOTAL INCOME				206.25
DIRECT EXPENSES				
OPERATOR LABOR	HOUR	3.35	2.65	9.30
SPECIAL LABOR	HOUR	4.50	.36	1.62
APPLY LIME X1/4	TON	13.00	.50	6.50
0-15-30	CWT	8.85	2.00	17.70
TREFLAN	LB	6.57	1.50	9.85
SENCOR	LB	16.80	1.00	16.80
SEED	LB	.27	77.00	20.79
DINITRO	LB	2.53	1.50	3.79
BASAGRAN	LB	15.65	.75	11.74
SPECIAL EQUIPMENT	ACRE	7.29	1.00	7.29
EQUIPMENT	ACRE	3.83	1.00	3.83
TRACTOR	ACRE	13.97	1.00	13.97
INT ON OP CAP	ACRE	9.94	1.00	9.94
HAUL	BU	.11	25.00	2.75
TOTAL DIRECT EXPENSE				134.26
RETURNS ABOVE DIRECT EXPENSES				71.99
FIXED EXPENSES				
SPECIAL EQUIPMENT	ACRE	11.79	1.00	11.79
EQUIPMENT	ACRE	7.89	1.00	7.89
TRACTOR	ACRE	12.41	1.00	12.41
TOTAL FIXED EXPENSE				32.09
TOTAL SPECIFIED EXPENSES				166.35
RETURNS ABOVE SPECIFIED EXPENSES				39.90

TABLE 19 .ESTIMATED COST PER ACRE, DRILLED SOYBEANS,USUAL INPUT PRACTICES,6 ROW EQUIPMENT, BLACK BELT OF NORTHEAST MISSISSIPPI, 1981.

OPERATION DESCRIPTION	MONTH	TRACTOR DIRECT COST	TRACTOR FIXED COST	EQUIPMENT DIRECT COST	EQUIPMENT FIXED COST	LABOR COST	MATERIAL COST	MISC COST	TOTAL COST
		DOLLARS							
APPLY LIME X1/4	11	.00	.00	.00	.00	.00	.00	6.50	6.50
APPLY FERT	3	.76	.71	.68	1.33	.33	17.70 1/	.00	21.52
CHISEL PLOW 16 FT	3	1.68	1.56	.28	.73	.74	.00	.00	4.99
CHISEL PLOW 16 FT	3	1.68	1.56	.28	.73	.74	.00	.00	4.99
FIELD CULT 21 FT	3	.76	.71	.33	.86	.33	.00	.00	3.00
FIELD CULT + INCORP	4	.92	.85	.44	1.16	.40	26.65 2/	.00	30.42
FIELD CULT 21 FT	4	.76	.71	.33	.86	.33	.00	.00	3.00
SECTION HARROW	5	.84	.78	.04	.11	.37	.00	.00	2.14
GRAIN DRILL 12 FT	5	2.01	1.87	.00	.00	1.77	20.79 3/	.00	26.44
APPLY HERB AIR	5	.00	.00	.00	.00	.00	3.79 4/	2.50	6.29
APPLY HERB AIR	6	.00	.00	.00	.00	.00	11.74 5/	2.50	14.24
COMBINE 13FT SB/WH	10	.00	.00	7.29	11.79	1.62	.00	.00	20.70
GRAIN CART (250 BU)	10	.92	.85	.19	.45	.40	.00	.00	2.81
HAUL	10	.00	.00	.00	.00	.00	.00	2.75	2.75
TOTAL SPECIFIED COSTS		10.33	9.60	9.86	18.02	7.04	80.68	14.25	149.78
INTEREST ON OPERATING CAPITAL									9.68
TOTAL SPECIFIED COSTS INCLUDING INTEREST ON OPERATING CAPITAL									159.46

1/ Fertilizer, 0-15-30. 2/ Treflan and Sencor. 3/ Seed. 4/ Dinitro. 5/ Basagran.

TABLE 20 .ESTIMATED COSTS AND RETURNS PER ACRE
DRILLED SOYBEANS,USUAL INPUT PRACTICES,6 ROW EQUIPMENT,
BLACK BELT OF NORTHEAST MISSISSIPPI, 1981.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT
		DOLLARS		DOLLARS
INCOME				
SOYBEANS	BU	8.25000	25.00	206.25
TOTAL INCOME				206.25
DIRECT EXPENSES				
OPERATOR LABOR	HOUR	3.35	1.98	7.04
SPECIAL LABOR	HOUR	4.50	.36	1.62
APPLY LIME X1/4	TON	13.00	.50	6.50
0-15-30	CWT	8.85	2.00	17.70
TREFLAN	LB	6.57	1.50	9.85
SENCOR	LB	16.80	1.00	16.80
SEED	LB	.27	77.00	20.79
DINITRO	LB	2.53	1.50	3.79
APPLY HERB AIR	ACRE	2.50	2.00	5.00
BASAGRAN	LB	15.65	.75	11.74
SPECIAL EQUIPMENT	ACRE	7.29	1.00	7.29
EQUIPMENT	ACRE	2.57	1.00	2.57
TRACTOR	ACRE	10.33	1.00	10.33
INT ON OP CAP	ACRE	9.68	1.00	9.68
HAUL	BU	.11	25.00	2.75
TOTAL DIRECT EXPENSE				131.84
RETURNS ABOVE DIRECT EXPENSES				74.41
FIXED EXPENSES				
SPECIAL EQUIPMENT	ACRE	11.79	1.00	11.79
EQUIPMENT	ACRE	6.23	1.00	6.23
TRACTOR	ACRE	9.60	1.00	9.60
TOTAL FIXED EXPENSE				27.62
TOTAL SPECIFIED EXPENSES				159.46
RETURNS ABOVE SPECIFIED EXPENSES				46.79

TABLE 21 ,ESTIMATED COST PER ACRE, DRILLED SOYBEANS,USUAL INPUT PRACTICES,8 ROW EQUIPMENT, BLACK BELT OF NORTHEAST MISSISSIPPI, 1981.

OPERATION DESCRIPTION	MONTH	TRACTOR DIRECT COST	TRACTOR FIXED COST	EQUIPMENT DIRECT COST	EQUIPMENT FIXED COST	LABOR COST	MATERIAL COST	MISC COST	TOTAL COST
		DOLLARS							
APPLY LIME X1/4	11	.00	.00	.00	.00	.00	.00	6.50	6.50
APPLY FERT	3	.76	.71	.68	1.33	.33	17.70 1/	.00	21.52
CHISEL PLOW 21 FT	3	1.29	1.20	.40	1.06	.47	.00	.00	4.42
CHISEL PLOW 21 FT	3	1.29	1.20	.40	1.06	.47	.00	.00	4.42
FIELD CULT 33.5FT	3	.74	.69	.57	1.49	.27	.00	.00	3.75
FIELD CULT + INCORP	4	.92	.86	.82	2.14	.33	26.65 2/	.00	31.73
FIELD CULT 33.5FT	4	.74	.69	.57	1.49	.27	.00	.00	3.75
SECTION HARROW	5	.81	.76	.05	.12	.29	.00	.00	2.04
GRAIN DRILL 12 FT	5	2.43	2.27	.00	.00	1.77	20.79 3/	.00	27.26
APPLY HERB AIR	5	.00	.00	.00	.00	.00	3.79 4/	2.50	6.29
APPLY HERB AIR	6	.00	.00	.00	.00	.00	11.74 5/	2.50	14.24
COMBINE 20 FT	10	.00	.00	6.13	10.41	1.03	.00	.00	17.57
GRAIN CART (250 BU)	10	1.10	1.03	.19	.45	.40	.00	.00	3.18
HAUL	10	.00	.00	.00	.00	.00	.00	2.75	2.75
TOTAL SPECIFIED COSTS		10.07	9.40	9.81	19.55	5.64	80.68	14.25	149.41
INTEREST ON OPERATING CAPITAL									9.63
TOTAL SPECIFIED COSTS INCLUDING INTEREST ON OPERATING CAPITAL									159.04

1/ Fertilizer, 0-15-30. 2/ Treflan and Sencor. 3/ Seed. 4/ Dinitro. 5/ Basagran.

TABLE 22 .ESTIMATED COSTS AND RETURNS PER ACRE
DRILLED SOYBEANS,USUAL INPUT PRACTICES,8 ROW EQUIPMENT,
BLACK BELT OF NORTHEAST MISSISSIPPI, 1981.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT
		DOLLARS		DOLLARS
INCOME				
SOYBEANS	BU	8.25000	25.00	206.25
TOTAL INCOME				206.25
DIRECT EXPENSES				
OPERATOR LABOR	HOUR	3.35	1.61	5.64
SPECIAL LABOR	HOUR	4.50	.23	1.03
APPLY LIME X1/4	TON	13.00	.50	6.50
0-15-30	CWT	8.85	2.00	17.70
TREFLAN	LB	6.57	1.50	9.85
SENCOR	LB	16.80	1.00	16.80
SEED	LB	.27	77.00	20.79
DINITRO	LB	2.53	1.50	3.79
APPLY HERB AIR	ACRE	2.50	2.00	5.00
BASAGRAN	LB	15.65	.75	11.74
SPECIAL EQUIPMENT	ACRE	6.13	1.00	6.13
EQUIPMENT	ACRE	3.68	1.00	3.68
TRACTOR	ACRE	10.07	1.00	10.07
INT ON OP CAP	ACRE	9.63	1.00	9.63
HAUL	BU	.11	25.00	2.75
TOTAL DIRECT EXPENSE				130.09
RETURNS ABOVE DIRECT EXPENSES				76.16
FIXED EXPENSES				
SPECIAL EQUIPMENT	ACRE	10.41	1.00	10.41
EQUIPMENT	ACRE	9.14	1.00	9.14
TRACTOR	ACRE	9.40	1.00	9.40
TOTAL FIXED EXPENSE				28.95
TOTAL SPECIFIED EXPENSES				159.04
RETURNS ABOVE SPECIFIED EXPENSES				47.21

TABLE 23 .ESTIMATED COST PER ACRE, COTTON, USUAL INPUT PRACTICES, 4 ROW EQUIPMENT, 38 INCH ROW SPACING, BLACK BELT OF NORTHEAST MISSISSIPPI, 1981.

OPERATION DESCRIPTION	MONTH	TRACTOR DIRECT COST	TRACTOR FIXED COST	EQUIPMENT DIRECT COST	EQUIPMENT FIXED COST	LABOR COST	MATERIAL COST	MISC COST	TOTAL COST
		DOLLARS							
STALK SHREDDER 2 ROW	11	2.06	1.82	.12	.52	1.00	.00	.00	5.52
CHISEL PLOW 12 FT	11	2.06	1.82	.30	.78	1.00	.00	.00	5.96
CHISEL PLOW 12 FT	3	2.06	1.82	.30	.78	1.00	.00	.00	5.96
FIELD CULT 12 FT	3	1.37	1.21	.27	.71	.67	.00	.00	4.23
FIELD CULT + INCORP	3	1.58	1.40	.44	1.15	.77	6.57 1/	.00	11.90
APPLY FERT	4	.68	.61	.68	1.33	.33	25.25 2/	.00	28.89
DISK BLD	4	1.44	1.27	.34	.67	.70	.00	.00	4.43
REBED	4	1.44	1.27	.34	.67	.70	.00	.00	4.43
ROW CONDITION	5	1.15	1.02	.05	.11	.56	.00	.00	2.89
PLANT + PRE	5	1.66	1.47	.60	1.58	1.62	18.26 3/	.00	25.20
CULTIVATE EARLY	5	1.71	1.52	.27	.61	.84	.00	.00	4.95
APPLY INS AIR	5	.00	.00	.00	.00	.00	.99 4/	2.00	2.99
APPLY FERT	6	.68	.61	.68	1.33	.33	15.45 5/	.00	19.09
CULT + POST EARLY	6	2.40	2.12	.55	1.26	1.17	1.33 6/	.00	8.83
APPLY INS AIR X1/3	6	.00	.00	.00	.00	.00	.34 7/	.66	1.00
CULTIVATE LATE	6	1.37	1.21	.21	.49	.67	.00	.00	3.95
INSECT SCOUTING	6	.00	.00	.00	.00	.00	.00	3.75	3.75
APPLY INS AIR X3	6	.00	.00	.00	.00	.00	3.22 8/	6.00	9.22
CULT + POST LATE	7	1.92	1.70	.44	1.01	.94	.61 9/	.00	6.61
CULT + POST LATE	7	1.92	1.70	.44	1.01	.94	.61 9/	.00	6.61
APPLY INS AIR X4	7	.00	.00	.00	.00	.00	13.44 10/	8.00	21.44
APPLY INS AIR X3	8	.00	.00	.00	.00	.00	16.42 11/	6.00	22.42
APPLY INS AIR	9	.00	.00	.00	.00	.00	7.01 12/	2.00	9.01
APPLY DEF AIR	9	.00	.00	.00	.00	.00	3.84 13/	2.50	6.34
1ST PICK 2 ROW	10	.00	.00	21.59	39.84	5.89	.00	.00	67.32
HAUL	10	.00	.00	.00	.00	.00	.00	8.80	8.80
2ND PICK 2 ROW	10	.00	.00	11.08	20.45	3.02	.00	.00	34.56
HAUL	10	.00	.00	.00	.00	.00	.00	2.20	2.20
GIN	10	.00	.00	.00	.00	.00	.00	44.00	44.00
TOTAL SPECIFIED COSTS		25.48	22.58	38.70	74.31	22.18	113.34	85.91	382.51
INTEREST ON OPERATING CAPITAL									13.83
TOTAL SPECIFIED COSTS INCLUDING INTEREST ON OPERATING CAPITAL									396.33

1/ Treflan. 2/ Fertilizer, 8-24-24. 3/ Cotoran, Soil Treater XXX and Seed. 4/ Bidrin. 5/ Fertilizer-liquid Urea. 6/ MSMA.
7/ Cygon. 8/ Methyl Parathion. 9/ Karmex. 10/ EPN + Methyl Parathion. 11/ Pydrin and Methyl Parathion.
12/ EPN + Methyl Parathion and Lannate. 13/ Methyl Parathion and Defoliant.

TABLE 24 .ESTIMATED COSTS AND RETURNS PER ACRE
COTTON, USUAL INPUT PRACTICES, 4 ROW EQUIPMENT, 38 INCH ROW SPACING,
BLACK BELT OF NORTHEAST MISSISSIPPI, 1981.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT
		DOLLARS		DOLLARS
INCOME				
COTTON LINT	LB	.78000	550.00	429.00
COTTON SEED	LB	.06000	853.00	51.18
TOTAL INCOME				480.18
DIRECT EXPENSES				
OPERATOR LABOR	HOUR	3.35	6.23	22.18
SPECIAL LABOR	HOUR	4.50	1.13	5.11
TREFLAN	LB	6.57	1.00	6.57
FERT 8-24-24	CWT	10.10	2.50	25.25
COTORAN	LB	5.45	1.25	6.81
SOIL TREATER XXX	LB	1.76	.10	.18
SEED	LB	.41	27.50	11.27
BIDRIN	LB	4.94	.20	.99
APPLY INS AIR	ACRE	2.00	2.00	4.00
FERT UREA\LIQUID	CWT	6.18	2.50	15.45
MSMA	LB	1.66	.80	1.33
CYGON 400	LB	5.16	.07	.34
APPLY INS AIR X1/3	ACRE	2.00	.33	.66
INSECT SCOUTING	ACRE	3.75	1.00	3.75
METHYL PARATHION	LB	2.15	3.25	6.99
APPLY INS AIR X3	ACRE	2.00	6.00	12.00
KARMEX (WP)	LB	2.90	.42	1.22
EPN + METHYL PARA	PT	2.10	8.00	16.80
APPLY INS AIR X4	ACRE	2.00	4.00	8.00
PYDRIN	LB	44.00	.30	13.20
LANNATE	LB	11.05	.33	3.65
DEFOLIANT	LB	2.75	1.20	3.30
APPLY DEF AIR	ACRE	2.50	1.00	2.50
SPECIAL EQUIPMENT	ACRE	32.67	1.00	32.67
EQUIPMENT	ACRE	6.03	1.00	6.03
TRACTOR	ACRE	25.48	1.00	25.48
INT ON OP CAP	ACRE	13.83	1.00	13.83
HAUL	LB	.02	550.00	11.00
GIN	LB	.08	550.00	44.00
TOTAL DIRECT EXPENSE				299.45
RETURNS ABOVE DIRECT EXPENSES				180.73
FIXED EXPENSES				
SPECIAL EQUIPMENT	ACRE	60.29	1.00	60.29
EQUIPMENT	ACRE	14.01	1.00	14.01
TRACTOR	ACRE	22.58	1.00	22.58
TOTAL FIXED EXPENSE				96.89
TOTAL SPECIFIED EXPENSES				396.33
RETURNS ABOVE SPECIFIED EXPENSES				83.85

TABLE 25 .ESTIMATED COST PER ACRE, COTTON, USUAL INPUT PRACTICES, 6 ROW EQUIPMENT, 38 INCH ROW SPACING, BLACK BELT OF NORTHEAST MISSISSIPPI, 1981.

OPERATION DESCRIPTION	MONTH	TRACTOR DIRECT COST	TRACTOR FIXED COST	EQUIPMENT DIRECT COST	EQUIPMENT FIXED COST	LABOR COST	MATERIAL COST	MISC COST	TOTAL COST
		DOLLARS							
STALK SHREDDER 2 ROW	11	2.29	2.13	.12	.52	1.00	.00	.00	6.06
CHISEL PLOW 16 FT	11	1.68	1.56	.28	.73	.74	.00	.00	4.99
CHISEL PLOW 16 FT	3	1.68	1.56	.28	.73	.74	.00	.00	4.99
FIELD CULT 21 FT	3	.76	.71	.33	.86	.33	.00	.00	3.00
FIELD CULT + INCORP	3	.92	.85	.44	1.16	.40	6.57 1/	.00	10.34
APPLY FERT	4	.76	.71	.68	1.33	.33	25.25 2/	.00	29.07
DISK BED	4	.99	.92	.31	.60	.44	.00	.00	3.26
REBED	4	.99	.92	.31	.60	.44	.00	.00	3.26
ROW CONDITION	5	.92	.85	.05	.12	.40	.00	.00	2.34
PLANT + PRE	5	1.51	1.40	.68	1.80	1.33	18.26 3/	.00	24.99
CULTIVATE EARLY	5	1.60	1.49	.31	.71	.70	.00	.00	4.81
APPLY INS AIR	5	.00	.00	.00	.00	.00	.99 4/	2.00	2.99
APPLY FERT	6	.76	.71	.68	1.33	.33	15.45 5/	.00	19.27
CULT + POST EARLY	6	1.83	1.70	.50	1.16	.80	1.33 6/	.00	7.32
APPLY INS AIR X1/3	6	.00	.00	.00	.00	.00	.34 7/	.66	1.00
CULTIVATE LATE	6	1.07	.99	.21	.47	.47	.00	.00	3.21
INSECT SCOUTING	6	.00	.00	.00	.00	.00	.00	3.75	3.75
APPLY INS AIR X3	6	.00	.00	.00	.00	.00	3.22 8/	6.00	9.22
CULT + POST LATE	7	1.37	1.28	.38	.87	.60	.61 9/	.00	5.11
CULT + POST LATE	7	1.37	1.28	.38	.87	.60	.61 9/	.00	5.11
APPLY INS AIR X4	7	.00	.00	.00	.00	.00	13.44 10/	8.00	21.44
APPLY INS AIR X3	8	.00	.00	.00	.00	.00	16.42 11/	6.00	22.42
APPLY INS AIR	9	.00	.00	.00	.00	.00	7.01 12/	2.00	9.01
APPLY DEF AIR	9	.00	.00	.00	.00	.00	3.84 13/	2.50	6.34
1ST PICK 2 ROW	10	.00	.00	21.59	39.84	5.89	.00	.00	67.32
HAUL	10	.00	.00	.00	.00	.00	.00	8.80	8.80
2ND PICK 2 ROW	10	.00	.00	11.08	20.45	3.02	.00	.00	34.56
HAUL	10	.00	.00	.00	.00	.00	.00	2.20	2.20
GIN	10	.00	.00	.00	.00	.00	.00	44.00	44.00
TOTAL SPECIFIED COSTS		20.51	19.06	38.61	74.16	18.58	113.34	85.91	370.17
INTEREST ON OPERATING CAPITAL									13.13
TOTAL SPECIFIED COSTS INCLUDING INTEREST ON OPERATING CAPITAL									383.29

1/ Treflan. 2/ Fertilizer, 8-24-24. 3/ Cotoran, Soil Treater XXX and Seed. 4/ Bidrin. 5/ Fertilizer--liquid Urea. 6/ MSMA
7/ Cygon. 8/ Methyl Parathion. 9/ Karmex. 10/ EPN + Methyl Parathion. 11/ Pydrin and Methyl Parathion.
12/ EPN + Methyl Parathion and Lannate. 13/ Methyl Parathion and Defoliant.

TABLE26 .ESTIMATED COSTS AND RETURNS PER ACRE
COTTON, USUAL INPUT PRACTICES, 6 ROW EQUIPMENT, 38 INCH ROW SPACING,
BLACK BELT OF NORTHEAST MISSISSIPPI, 1981.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT
		DOLLARS		DOLLARS
INCOME				
COTTON LINT	LB	.78000	550.00	429.00
COTTON SEED	LB	.06000	853.00	51.18
TOTAL INCOME				480.18
DIRECT EXPENSES				
OPERATOR LABOR	HOUR	3.35	5.16	18.58
SPECIAL LABOR	HOUR	4.50	1.13	5.11
TREFLAN	LB	6.57	1.00	6.57
FERT 8-24-24	CWT	10.10	2.50	25.25
COTORAN	LB	5.45	1.25	6.81
SOIL TREATER XXX	LB	1.76	.10	.18
SEED	LB	.41	27.50	11.27
BIDRIN	LB	4.94	.20	.99
APPLY INS AIR	ACRE	2.00	2.00	4.00
FERT UREA\LIQUID	CWT	6.18	2.50	15.45
MSMA	LB	1.66	.80	1.33
CYGON 400	LB	5.16	.07	.34
APPLY INS AIR X1/3	ACRE	2.00	.33	.66
INSECT SCOUTING	ACRE	3.75	1.00	3.75
METHYL PARATHION	LB	2.15	3.25	6.99
APPLY INS AIR X3	ACRE	2.00	6.00	12.00
KARMEX (WP)	LB	2.90	.42	1.22
EPN + METHYL PARA	PT	2.10	8.00	16.80
APPLY INS AIR X4	ACRE	2.00	4.00	8.00
PYDRIN	LB	44.00	.30	13.25
LANNATE	LB	11.05	.30	3.65
DEFOLIANT	LB	2.75	1.20	3.30
APPLY DEF AIR	ACRE	2.50	1.00	2.50
SPECIAL EQUIPMENT	ACRE	32.67	1.00	32.67
EQUIPMENT	ACRE	5.94	1.00	5.94
TRACTOR	ACRE	20.51	1.00	20.51
INT ON OP CAP	ACRE	13.13	1.00	13.13
HAUL	LB	.02	550.00	11.00
GIN	LB	.08	550.00	44.00
TOTAL DIRECT EXPENSE				290.08
RETURNS ABOVE DIRECT EXPENSES				190.10
FIXED EXPENSES				
SPECIAL EQUIPMENT	ACRE	60.29	1.00	60.29
EQUIPMENT	ACRE	13.86	1.00	13.86
TRACTOR	ACRE	19.06	1.00	19.06
TOTAL FIXED EXPENSE				93.22
TOTAL SPECIFIED EXPENSES				383.29
RETURNS ABOVE SPECIFIED EXPENSES				96.89

TABLE 27 .ESTIMATED COST PER ACRE, COTTON, USUAL INPUT PRACTICES, 8 ROW EQUIPMENT, 38 INCH ROW SPACING, BLACK BELT OF NORTHEAST MISSISSIPPI, 1981.

OPERATION DESCRIPTION	MONTH	TRACTOR DIRECT COST	TRACTOR FIXED COST	EQUIPMENT DIRECT COST	EQUIPMENT FIXED COST	LABOR COST	MATERIAL COST	MISC COST	TOTAL COST
		DOLLARS							
STALK SHREDDER 2 ROW	11	2.76	2.58	.12	.52	1.00	.00	.00	6.98
CHISEL PLOW 21 FT	11	1.29	1.20	.40	1.06	.47	.00	.00	4.42
CHISEL PLOW 21 FT	3	1.29	1.20	.40	1.06	.47	.00	.00	4.42
FIELD CULT 33.5FT	3	.74	.69	.57	1.49	.27	.00	.00	3.75
FIELD CULT + INCORP	3	.92	.86	.82	2.14	.33	6.57 1/	.00	11.64
APPLY FERT	4	.92	.86	.68	1.33	.33	25.25 2/	.00	29.37
DISK BED	4	.92	.86	.30	.58	.33	.00	.00	2.99
REBED	4	.92	.86	.30	.58	.33	.00	.00	2.99
ROW CONDITION	5	.88	.82	.06	.13	.32	.00	.00	2.22
PLANT + PRE	5	1.21	1.13	.66	1.74	.88	18.26 3/	.00	23.89
CULTIVATE EARLY	5	1.47	1.37	.31	.71	.54	.00	.00	4.40
APPLY INS AIR	5	.00	.00	.00	.00	.00	.99 4/	2.00	2.99
APPLY FERT	6	.92	.86	.68	1.33	.33	15.45 5/	.00	19.57
CULT + POST EARLY	6	1.66	1.55	.48	1.10	.60	1.33 6/	.00	6.71
APPLY INS AIR X1/3	6	.00	.00	.00	.00	.00	.34 7/	.66	1.00
CULTIVATE LATE	6	.92	.86	.19	.44	.33	.00	.00	2.74
INSECT SCOUTING	6	.00	.00	.00	.00	.00	.00	3.75	3.75
APPLY INS AIR X3	6	.00	.00	.00	.00	.00	3.22 8/	6.00	9.22
CULT + POST LATE	7	1.20	1.12	.34	.79	.44	.61 9/	.00	4.49
CULT + POST LATE	7	1.20	1.12	.34	.79	.44	.61 9/	.00	4.49
APPLY INS AIR X4	7	.00	.00	.00	.00	.00	13.44 10/	8.00	21.44
APPLY INS AIR X3	8	.00	.00	.00	.00	.00	16.42 11/	6.00	22.42
APPLY INS AIR	9	.00	.00	.00	.00	.00	7.01 12/	2.00	9.01
APPLY DEF AIR	9	.00	.00	.00	.00	.00	3.84 13/	2.50	6.34
1ST PICK 2 ROW	10	.00	.00	21.59	39.84	5.89	.00	.00	67.32
HAUL	10	.00	.00	.00	.00	.00	.00	8.80	8.80
2ND PICK 2 ROW	10	.00	.00	11.08	20.45	3.02	.00	.00	34.56
HAUL	10	.00	.00	.00	.00	.00	.00	2.20	2.20
GIN	10	.00	.00	.00	.00	.00	.00	44.00	44.00
TOTAL SPECIFIED COSTS		19.21	17.94	39.32	76.08	16.35	113.34	85.91	368.15
INTEREST ON OPERATING CAPITAL									12.93
TOTAL SPECIFIED COSTS INCLUDING INTEREST ON OPERATING CAPITAL									381.08

1/ Treflan. 2/ Fertilizer, 8-24-24. 3/ Cotoran, Soil Treater XXX and Seed. 4/ Bidrin. 5/ Fertilizer--liquid Urea. 6/ MSMA.
7/ Cygon. 8/ Methyl Parathion. 9/ Karmex. 10/ EPN + Methyl Parathion. 11/ Pydrin and Methyl Parathion.
12/ EPN + Methyl Parathion and Lannate. 13/ Methyl Parathion and Defoliant.

TABLE 28 .ESTIMATED COSTS AND RETURNS PER ACRE
COTTON, USUAL INPUT PRACTICES, 8 ROW EQUIPMENT, 38 INCH ROW SPACING,
BLACK BELT OF NORTHEAST MISSISSIPPI, 1981.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT
		DOLLARS		DOLLARS
INCOME				
COTTON LINT	LB	.78000	550.00	429.00
COTTON SEED	LB	.06000	853.00	51.18
TOTAL INCOME				480.18
DIRECT EXPENSES				
OPERATOR LABOR	HOUR	3.35	4.49	16.35
SPECIAL LABOR	HOUR	4.50	1.13	5.11
TREFLAN	LB	6.57	1.00	6.57
FERT 8-24-24	CWT	10.10	2.50	25.25
COTORAN	LB	5.45	1.25	6.81
SOIL TREATER XXX	LB	1.76	.10	.18
SEED	LB	.41	27.50	11.27
BIDRIN	LB	4.94	.20	.99
APPLY INS AIR	ACRE	2.00	2.00	4.00
FERT UREA\LIQUID	CWT	6.18	2.50	15.45
MSMA	LB	1.66	.80	1.33
CYGON 400	LB	5.16	.07	.34
APPLY INS AIR X1/3	ACRE	2.00	.33	.66
INSECT SCOUTING	ACRE	3.75	1.00	3.75
METHYL PARATHION	LB	2.15	3.25	6.99
APPLY INS AIR X3	ACRE	2.00	6.00	12.00
KARMEX (WP)	LB	2.90	.42	1.22
EPN + METHYL PARA	PT	2.10	8.00	16.80
APPLY INS AIR X4	ACRE	2.00	4.00	8.00
PYDRIN	LB	44.00	.30	13.20
LANNATE	LB	11.05	.33	3.65
DEFOLIANT	LB	2.75	1.20	3.30
APPLY DEF AIR	ACRE	2.50	1.00	2.50
SPECIAL EQUIPMENT	ACRE	32.67	1.00	32.67
EQUIPMENT	ACRE	6.65	1.00	6.65
TRACTOR	ACRE	19.21	1.00	19.21
INT ON OP CAP	ACRE	12.93	1.00	12.93
HAUL	LB	.02	550.00	11.00
GIN	LB	.08	550.00	44.00
TOTAL DIRECT EXPENSE				287.06
RETURNS ABOVE DIRECT EXPENSES				193.12
FIXED EXPENSES				
SPECIAL EQUIPMENT	ACRE	60.29	1.00	60.29
EQUIPMENT	ACRE	15.79	1.00	15.79
TRACTOR	ACRE	17.94	1.00	17.94
TOTAL FIXED EXPENSE				94.02
TOTAL SPECIFIED EXPENSES				381.08
RETURNS ABOVE SPECIFIED EXPENSES				99.10

TABLE 29 .ESTIMATED COST PER ACRE, GRAIN SORGHUM FOR GRAIN, USUAL INPUT PRACTICES, 4 ROW EQUIPMENT, BLACK BELT OF NORTHEAST MISSISSIPPI, 1981.

OPERATION DESCRIPTION	MONTH	TRACTOR DIRECT COST	TRACTOR FIXED COST	EQUIPMENT DIRECT COST	EQUIPMENT FIXED COST	LABOR COST	MATERIAL COST	MISC COST	TOTAL COST
		DOLLARS							
CHISEL PLOW 12 FT X2	4	4.11	3.64	.60	1.56	2.01	.00	.00	11.92
SPIN SPREAD(30% BU)	5	.68	.61	.68	1.33	.33	15.15 1/	.00	18.79
FIELD CULT 12 FT	5	1.37	1.21	.27	.71	.67	.00	.00	4.23
DISK BED	5	1.44	1.27	.34	.67	.70	.00	.00	4.43
ROW CONDITION	5	1.37	1.21	.46	1.04	.67	.00	.00	4.75
PLANT + PRE	5	1.51	1.34	.55	1.44	1.47	7.33 2/	.00	13.64
LIQUID FERT APPL	6	2.95	2.61	.69	1.43	2.04	15.45 3/	.00	25.17
CULT + POST LATE	7	1.92	1.70	.44	1.01	.94	2.24 4/	.00	8.25
APPLY INS-AIR X2	8	.00	.00	.00	.00	.00	2.15 5/	4.00	6.15
COMBINE 13 FT	9	.00	.00	7.29	11.79	1.62	.00	.00	20.70
GRAIN CART (250 BU)	9	.68	.61	.16	.37	.33	.00	.00	2.16
HAUL	9	.00	.00	.00	.00	.00	.00	8.00	8.00
STORE - DRY - LOAD	9	.00	.00	.00	.00	.00	.00	30.40	30.40
TOTAL SPECIFIED COSTS		16.03	14.20	11.48	21.35	10.80	42.32	42.40	158.58
INTEREST ON OPERATING CAPITAL									4.75
TOTAL SPECIFIED COSTS INCLUDING INTEREST ON OPERATING CAPITAL									163.33

1/Fertilizer, 8-24-24. 2/Atrazine and Seed. 3/Fertilizer, Liquid Urea. 4/2,4-D. 5/Methyl Parathion.

TABLE 30 .ESTIMATED COSTS AND RETURNS PER ACRE
GRAIN SORGHUM FOR GRAIN, USUAL INPUT PRACTICES, 4 ROW EQUIPMENT,
BLACK BELT OF NORTHEAST MISSISSIPPI, 1981.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT
		DOLLARS		DOLLARS
INCOME				
GRAIN SORGHUM	CWT	5.50000	40.00	220.00
TOTAL INCOME				220.00
DIRECT EXPENSES				
OPERATOR LABOR	HOUR	3.35	3.10	10.80
SPECIAL LABOR	HOUR	4.50	.36	1.62
FERT 8-24-24	CWT	10.10	1.50	15.15
ATRAZINE	LB	2.50	.50	1.25
SEED	LB	.76	8.00	6.08
FERT UREA\LIQUID	CWT	6.18	2.50	15.45
2,4-D	LB	4.48	.50	2.24
METHYL PARATHION	LB	2.15	1.00	2.15
APPLY INS-AIR X2	ACRE	2.00	2.00	4.00
SPECIAL EQUIPMENT	ACRE	7.29	1.00	7.29
EQUIPMENT	ACRE	4.19	1.00	4.19
TRACTOR	ACRE	16.03	1.00	16.03
INT ON OP CAP	ACRE	4.75	1.00	4.75
HAUL	CWT	.20	40.00	8.00
STORE - DRY - LOAD	CWT	.76	40.00	30.40
TOTAL DIRECT EXPENSE				127.77
RETURNS ABOVE DIRECT EXPENSES				92.23
FIXED EXPENSES				
SPECIAL EQUIPMENT	ACRE	11.79	1.00	11.79
EQUIPMENT	ACRE	9.56	1.00	9.56
TRACTOR	ACRE	14.20	1.00	14.20
TOTAL FIXED EXPENSE				35.55
TOTAL SPECIFIED EXPENSES				163.33
RETURNS ABOVE SPECIFIED EXPENSES				56.67

TABLE 31 .ESTIMATED COST PER ACRE, GRAIN SORGHUM FOR GRAIN, USUAL INPUT PRACTICES, 6 ROW EQUIPMENT, BLACK BELT OF NORTHEAST MISSISSIPPI, 1981.

OPERATION DESCRIPTION	MONTH	TRACTOR DIRECT COST	TRACTOR FIXED COST	EQUIPMENT DIRECT COST	EQUIPMENT FIXED COST	LABOR COST	MATERIAL COST	MISC COST	TOTAL COST
		DOLLARS							
CHISEL PLOW 16 FT X2	4	3.36	3.12	.56	1.46	1.47	.00	.00	9.97
SPIN SPREAD(300 BU)	5	.76	.71	.68	1.33	.33	15.15 1/	.00	18.97
FIELD CULT 21 FT	5	.76	.71	.33	.86	.33	.00	.00	3.00
DISK BED	5	.99	.92	.31	.60	.44	.00	.00	3.26
ROW CONDITION 6 ROW	5	1.03	.91	.61	1.38	.50	.00	.00	4.43
PLANT + PRE	5	1.37	1.28	.62	1.64	1.21	7.33 2/	.00	13.45
LIQUID FERT APPL	6	2.52	2.34	.66	1.39	1.51	15.45 3/	.00	23.87
CULT + POST LATE	7	1.37	1.28	.38	.87	.60	2.24 4/	.00	6.74
APPLY INS-AIR X2	8	.00	.00	.00	.00	.00	2.15 5/	4.00	6.15
COMBINE 13 FT	9	.00	.00	7.29	11.79	1.62	.00	.00	20.70
GRAIN CART (250 BU)	9	.76	.71	.16	.37	.33	.00	.00	2.34
HAUL	9	.00	.00	.00	.00	.00	.00	8.00	8.00
STORE - DRY - LOAD	9	.00	.00	.00	.00	.00	.00	30.40	30.40
TOTAL SPECIFIED COSTS		12.93	11.97	11.60	21.69	8.35	42.32	42.40	151.26
INTEREST ON OPERATING CAPITAL									4.42
TOTAL SPECIFIED COSTS INCLUDING INTEREST ON OPERATING CAPITAL									155.68

1/Fertilizer, 8-24-24. 2/Atrazine and Seed. 3/Fertilizer, Liquid Urea. 4/2,4-D. 5/Methyl Parathion.

TABLE 32 .ESTIMATED COSTS AND RETURNS PER ACRE
GRAIN SORGHUM FOR GRAIN, USUAL INPUT PRACTICES, 6 ROW EQUIPMENT,
BLACK BELT OF NORTHEAST MISSISSIPPI, 1981.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT
		DOLLARS		DOLLARS
INCOME				
GRAIN SORGHUM	CWT	5.50000	40.00	220.00
TOTAL INCOME				220.00
DIRECT EXPENSES				
OPERATOR LABOR	HOUR	3.35	2.37	8.35
SPECIAL LABOR	HOUR	4.50	.36	1.62
FERT 8-24-24	CWT	10.10	1.50	15.15
ATRAZINE	LB	2.50	.50	1.25
SEED	LB	.76	8.00	6.08
FERT UREA\LIQUID	CWT	6.18	2.50	15.45
2,4-D	LB	4.48	.50	2.24
METHYL PARATHION	LB	2.15	1.00	2.15
APPLY INS-AIR X2	ACRE	2.00	2.00	4.00
SPECIAL EQUIPMENT	ACRE	7.29	1.00	7.29
EQUIPMENT	ACRE	4.31	1.00	4.31
TRACTOR	ACRE	12.93	1.00	12.93
INT ON OP CAP	ACRE	4.42	1.00	4.42
HAUL	CWT	.20	40.00	8.00
STORE - DRY - LOAD	CWT	.76	40.00	30.40
TOTAL DIRECT EXPENSE				122.02
RETURNS ABOVE DIRECT EXPENSES				97.98
FIXED EXPENSES				
SPECIAL EQUIPMENT	ACRE	11.79	1.00	11.79
EQUIPMENT	ACRE	9.90	1.00	9.90
TRACTOR	ACRE	11.97	1.00	11.97
TOTAL FIXED EXPENSE				33.66
TOTAL SPECIFIED EXPENSES				155.68
RETURNS ABOVE SPECIFIED EXPENSES				64.32

TABLE 33 .ESTIMATED COST PER ACRE, GRAIN SORGHUM FOR GRAIN, USUAL INPUT PRACTICES, 8 ROW EQUIPMENT, BLACK BELT OF NORTHEAST MISSISSIPPI, 1981.

OPERATION DESCRIPTION	MONTH	TRACTOR DIRECT COST	TRACTOR FIXED COST	EQUIPMENT DIRECT COST	EQUIPMENT FIXED COST	LABOR COST	MATERIAL COST	MISC COST	TOTAL COST
		DOLLARS							
CHISEL PLOW 21 FT X2	4	2.58	2.41	.80	2.12	.94	.00	.00	8.84
SPIN SPREAD(300 BU)	5	.92	.86	.68	1.33	.33	15.15 1/	.00	19.27
FIELD CULT 33.5FT	5	.74	.69	.57	1.49	.27	.00	.00	3.75
DISK BED	5	.92	.86	.30	.58	.33	.00	.00	2.99
ROW CONDITION 8 ROW	5	.82	.73	.69	1.57	.40	.00	.00	4.21
PLANT + PRE	5	1.10	1.03	.60	1.58	.80	7.33 2/	.00	12.45
LIQUID FERT APPL	6	2.21	2.06	.59	1.26	1.07	15.45 3/	.00	22.64
CULT + POST LATE	7	1.20	1.12	.34	.79	.44	2.24 4/	.00	6.12
APPLY INS-AIR X2	8	.00	.00	.00	.00	.00	2.15 5/	4.00	6.15
COMBINE 20 FT	9	.00	.00	5.33	9.05	.90	.00	.00	15.28
GRAIN CART (250 BU)	9	.92	.86	.16	.37	.33	.00	.00	2.64
HAUL	9	.00	.00	.00	.00	.00	.00	8.00	8.00
STORE - DRY - LOAD	9	.00	.00	.00	.00	.00	.00	30.40	30.40
TOTAL SPECIFIED COSTS		11.40	10.61	10.06	20.14	5.82	42.32	42.40	142.75
INTEREST ON OPERATING CAPITAL									4.23
TOTAL SPECIFIED COSTS INCLUDING INTEREST ON OPERATING CAPITAL									146.98

1/ Fertilizer, 8-24-24. 2/ Atazine and Seed. 3/ Fertilizer, Liquid Urea. 4/ 2,4-D. 5/ Methyl Parathion.

TABLE 34 .ESTIMATED COSTS AND RETURNS PER ACRE
GRAIN SORGHUM FOR GRAIN, USUAL INPUT PRACTICES, 8 ROW EQUIPMENT,
BLACK BELT OF NORTHEAST MISSISSIPPI, 1981.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT
		DOLLARS		DOLLARS
INCOME				
GRAIN SORGHUM	CWT	5.50000	40.00	220.00
TOTAL INCOME				220.00
DIRECT EXPENSES				
OPERATOR LABOR	HOUR	3.35	1.67	5.82
SPECIAL LABOR	HOUR	4.50	.20	.90
FERT 8-24-24	CWT	10.10	1.50	15.15
ATRAZINE	LB	2.50	.50	1.25
SEED	LB	.76	8.00	6.08
FERT UREA\LIQUID	CWT	6.18	2.50	15.45
2,4-D	LB	4.48	.50	2.24
METHYL PARATHION	LB	2.15	1.00	2.15
APPLY INS-AIR X2	ACRE	2.00	2.00	4.00
SPECIAL EQUIPMENT	ACRE	5.33	1.00	5.33
EQUIPMENT	ACRE	4.73	1.00	4.73
TRACTOR	ACRE	11.40	1.00	11.40
INT ON OP CAP	ACRE	4.23	1.00	4.23
HAUL	CWT	.20	40.00	8.00
STORE - DRY - LOAD	CWT	.76	40.00	30.40
TOTAL DIRECT EXPENSE				116.23
RETURNS ABOVE DIRECT EXPENSES				103.77
FIXED EXPENSES				
SPECIAL EQUIPMENT	ACRE	9.05	1.00	9.05
EQUIPMENT	ACRE	11.09	1.00	11.09
TRACTOR	ACRE	10.61	1.00	10.61
TOTAL FIXED EXPENSE				30.75
TOTAL SPECIFIED EXPENSES				146.98
RETURNS ABOVE SPECIFIED EXPENSES				73.02

TABLE 35 .ESTIMATED COST PER ACRE, WHEAT FOR GRAIN, USUAL INPUT PRACTICES, 115-150 DBHP TRACTOR, BLACK BELT OF NORTHEAST MISSISSIPPI, 1981.

OPERATION DESCRIPTION	MONTH	TRACTOR DIRECT COST	TRACTOR FIXED COST	EQUIPMENT DIRECT COST	EQUIPMENT FIXED COST	LABOR COST	MATERIAL COST	MISC COST	TOTAL COST
		DOLLARS							
APPLY FERT	9	.92	.86	.68	1.33	.33	20.20[1/]	.00	24.32
CHISEL PLOW 21 FT X2	9	2.58	2.41	.80	2.12	.94	.00	.00	8.84
FIELD CULT 21 FT	10	.92	.86	.33	.86	.33	.00	.00	3.30
SECTION HARROW	10	.74	.69	.05	.11	.27	.00	.00	1.85
GRAIN DRILL 12 FT	10	2.43	2.27	.00	.00	1.77	14.08[2/]	.00	20.55
APP FERT - AIR	3	.00	.00	.00	.00	.00	22.50[3/]	9.75	32.25
APP 2,4-D - AIR	4	.00	.00	.00	.00	.00	4.48[4/]	5.00	9.48
COMBINE 20 FT	6	.00	.00	6.13	10.41	1.03	.00	.00	17.57
GRAIN CART (250 BU)	6	1.10	1.03	.19	.45	.40	.00	.00	3.18
HAUL	6	.00	.00	.00	.00	.00	.00	3.85	3.85
BURN	6	.00	.00	.00	.00	.03	.00	.00	.03
TOTAL SPECIFIED COSTS		8.68	8.11	8.18	15.28	5.12	61.26	18.60	125.23
INTEREST ON OPERATING CAPITAL									7.79
TOTAL SPECIFIED COSTS INCLUDING INTEREST ON OPERATING CAPITAL									133.02

[1/] Fertilizer, 8-24-24. [2/] Seed. [3/] Fertilizer, Ammonium Nitrate. [4/] 2,4-D.

TABLE 36 .ESTIMATED COSTS AND RETURNS PER ACRE
WHEAT FOR GRAIN, USUAL INPUT PRACTICES, 115-150 DBHP TRACTOR,
BLACK BELT OF NORTHEAST MISSISSIPPI, 1981.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT
		DOLLARS		DOLLARS
INCOME				
WHEAT	BU	4.50000	35.00	157.50
TOTAL INCOME				157.50
DIRECT EXPENSES				
OPERATOR LABOR	HOUR	3.35	1.45	5.12
SPECIAL LABOR	HOUR	4.50	.23	1.03
FERT 8-24-24	CWT	10.10	2.00	20.20
SEED	LB	.16	88.00	14.08
FERT AMM NITRATE	CWT	7.50	3.00	22.50
APP FERT - AIR	CWT	3.25	3.00	9.75
2,4-D	LB	4.48	1.00	4.48
APP 2,4-D - AIR	ACRE	5.00	1.00	5.00
SPECIAL EQUIPMENT	ACRE	6.13	1.00	6.13
EQUIPMENT	ACRE	2.05	1.00	2.05
TRACTOR	ACRE	8.68	1.00	8.68
INT ON OP CAP	ACRE	7.79	1.00	7.79
HAUL	BU	.11	35.00	3.85
TOTAL DIRECT EXPENSE				109.63
RETURNS ABOVE DIRECT EXPENSES				47.87
FIXED EXPENSES				
SPECIAL EQUIPMENT	ACRE	10.41	1.00	10.41
EQUIPMENT	ACRE	4.87	1.00	4.87
TRACTOR	ACRE	8.11	1.00	8.11
TOTAL FIXED EXPENSE				23.39
TOTAL SPECIFIED EXPENSES				133.02
RETURNS ABOVE SPECIFIED EXPENSES				24.48

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