# SOYBEANS 2021 PLANNING BUDGETS

Mississippi State University Department of Agricultural Economics Budget Report 2020-02

October 2020

### Foreword

This report is designed to provide necessary planning data to farmers, research and extension staffs, lending agencies, and others in agriculture. Readers are cautioned that returns presented are labeled "Returns Above Specified Expenses." Estimated costs for land, management, and general farm overhead are not included in this report. The exception is unallocated labor, which is included. "Returns Above Direct Expenses" should be used in making 2021 planning decisions. This would be a one-year short-run decision. Decisions beyond one year, or long-run decisions, should be based on "Returns Above Specified Expenses."

### Acknowledgments

A list of individuals who contributed to the development of the agricultural enterprise budgets follows this acknowledgment. The administrative committee structure and enterprise committees have shown a spirit of cooperation seldom found when so many work together. A team effort has led to many improvements in the budgets over the years.

Special appreciation is expressed to producers who provided information on crop practices used. Appreciation also is expressed to farm supply dealers, equipment dealers, custom operators, and chemical companies who provided prices for crop production inputs. The Mississippi Agricultural Statistics Service is commended for its excellence in collecting price and production practice data.

Acknowledgment is made to the Mississippi State University Extension Service, the Mississippi Agricultural and Forestry Experiment Station, and the United States Agricultural Research Service staffs for the excellent cooperation that made this report possible.

The mention in this report of any commercial product does not imply its endorsement by MSU-ES, MAFES, or USDA over other products not named nor does the omission imply they are not satisfactory.

# **2021 Budget Committees**

### Corn, Grain Sorghum, and Wheat

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### Fruit & Nut

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# **Supporting Committees**

### **Equipment**

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### **Prices**

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### **Documentation and Data Processing**

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### **Publication Review**

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# 2021 Planning Budgets

### **Budgets for Agricultural Enterprises**

This publication provides economic and technical information in the form of enterprise budgets for a major crop produced by Mississippi farmers. A multidisciplinary approach involving researchers and extension personnel was used to determine production practices and input quantities, and to estimate costs and returns for each enterprise (14). The purpose of this section is to present the methods and procedures used to calculate costs and returns for each budget included in this publication.

Enterprise budgets represent a type of information that can be used by a wide variety of individuals in making decisions in the food and fiber industry. They are used:

- by farmers for planning,
- by extension personnel in providing educational programs to farmers,
- by lenders as a basis for credit,
- to provide basic data for research, and
- to inform non-farmers of the costs incurred by farmers in the production of food and fiber crops.

A budget should be prepared with a specific objective in mind. The budgets in this report were prepared to provide general information for several different uses. They provide information concerning general levels of costs and returns which will need to be adjusted for specific situations. Most users should think of these budgets as a first approximation and then make appropriate adjustments using the "Your Farm" column provided on each budget to add, delete, or change costs or incomes to reflect their specific situations.

### **Methods and Procedures**

### **Production Practices**

The production practices listed in each budget are the result of a combined effort by researchers and extension personnel to represent those practices that producers could use in a specific production system. Producers might use different practices in their own operations. If different types and quantities of operating inputs are to be used, then the budgeted expenses should be changed to more accurately reflect actual input usage.

Committees made up of appropriate disciplines from the Mississippi Agricultural and Forestry Experiment Station, the Mississippi State University Extension Service, and the U.S. Department of Agriculture review and update the practices in the budgets every year. The updates are based on the collective judgment of the committee members. Quantities of materials and individual production practices budgeted are based on generally accepted recommendations by committee members.

### **Machinery**

Machinery manufacturers form the basis for machinery prices used in these publications. Prices by size of equipment are determined from the most common sales in each category as reported by machinery dealers. Prices used in the budgets reflect prices paid by farmers in 2020. (Appendix Tables 1, 2, and 3).

A performance rate reflects the time required to perform a given task or operation and is expressed as that part of an hour per acre. Previous studies and expert knowledge of the equipment committee members are used to estimate performance rates for new and larger equipment (1, 4, 5, 6, 7, 9, and 13).

The hours of annual use have been modified based on information collected from the cited studies (3, 4, 6, and 7).

Repairs and maintenance as a percentage of new cost are estimated for the life of the equipment and include oil and lubricants (1, 4, and 6).

### **Estimates of Direct Costs**

Direct costs include estimated costs of repairs and maintenance (R&M) for all machinery and include fuel costs for powered machinery (Appendix Tables 1, 2, and 3). Direct costs are estimated on an hourly basis and are then converted to a per-acre basis using the performance rate for the particular operation. R&M costs for towed equipment and powered equipment are estimated as follows:

$$RPH = \underbrace{RLC \ x \ RP}_{THL}$$

RPA = RPH x PR

where:

RPH = R&M cost per hour of use

RLC = Replacement cost of machine

RP = R&M percentage (percent of RLC)

THL = Total hours of machine life

RPA = R&M cost per acre

PR = Performance rate

Direct costs include an estimate of fuel cost based on average fuel consumption per hour of use for the power unit. Other components of direct costs include quantities of materials used in production multiplied by the price per unit of these inputs, custom rates, hourly wage rates, and interest charges on operating capital (Appendix Tables 4, 5, and 6).

The labor wage rate per hour includes social security, accident and unemployment insurance, and some perquisites (11). Labor costs are estimated for four labor categories: operator labor, hand labor, irrigation labor, and unallocated labor. Operator labor and hand labor represent estimates of labor required to perform the in-field tasks. Operator labor is that labor

required to operate all power-driven equipment. Irrigation labor is used to perform tasks associated with an irrigation system. Unallocated labor is an estimate of labor that is not used directly in producing the enterprise. Its cost is estimated as a percentage of operator labor (11). The percentages used for the various crop enterprises are listed in Appendix Table 6.

Interest on operating capital is determined by using a short-term interest rate obtained from agricultural lenders and making a charge against capital outflows as the production process takes place. Interest is accumulated until the crop is harvested.

### **Estimates of Fixed Costs**

Annual fixed cost estimates for machinery are based on a budgeting technique which computes the annual capital recovery charge (2, p. 143). When a combination of machines or equipment is required to perform a single operation, the total cost per acre for all equipment used in the operation is estimated. The fixed cost of machinery ownership is calculated by first computing the capital recovery factor and then using it to estimate the annual capital recovery charge.

$$CRF = \frac{IIR}{1 - (1 + IIR)}$$
-TYL

where:

CRF = Capital recovery factor IIR = Intermediate-term interest rate TYL = Total years of life

$$CRCPY = [(RLC - SV) x CRF] + (SV x IIR)$$

where:

CRCPY = Capital recovery charge per year

RLC = Replacement cost

SV = Salvage value (at end of useful life)

This value is then converted to its per-hour and per-acre equivalent values:

# $CRCPH = \underline{CRCPY}$ HAU

### CRCPA = CRCPH x PR

where:

CRCPH = Capital recovery charge per hour HAU = Hours of annual use CRCPA = Capital recovery charge per acre PR = Performance rate

### **Estimates of Returns**

It is difficult to estimate crop yields that may be expected for a particular production system in a given year. Crop yields used in the budgets are representative of historical yields modified to match the production system used to produce the yield. All yields including conventional, notillage, irrigation, and double-cropping are tempered with unpublished research and judgments of the commodity committees. Producers should use yield estimates that are reflective of their own operation.

To estimate returns, a price for the commodity must be used. Individual producers must determine their own expected price for the commodity. Commodity prices used in this report represent the higher of a calculated forward contract price or the loan rate that was applicable for the 2020 crop year. Government payments for commodities are not included in the budgets except to the extent that they are included in loan rates.

The futures price for an appropriate contract month is determined by averaging the closing prices for the first five trading days in October. The basis is determined by subtracting the average daily cash price for the month of October from the average daily closing price of the specified harvest month futures contract. These average futures prices and the basis adjustments are presented in Appendix Table 7.

A special table is presented to illustrate the effects of alternative levels of yields and prices on net returns. The budgeted yield and the budgeted price are used as base values (100 percent). Yields are then varied from 50 to 150 percent of the base yield while prices are varied from 75 to 125 percent of the base price. Net returns are computed for each combination of yield and price.

### **Irrigation Costs**

Estimated costs of various irrigation systems are presented in Appendix Tables 8, 9, and 10. A dryland crop budget may be converted to an irrigated crop budget by adding the appropriate direct and fixed costs to the costs of the dryland crop. Also, adjustments in crop yields and other costs may be required with the addition of supplemental irrigation.

#### **Net Returns**

Net returns are generally considered to be the amount left after subtracting all costs from all incomes for a particular enterprise. In these "RETURNS **ABOVE** DIRECT budgets, EXPENSES" and "RETURNS ABOVE TOTAL SPECIFIED EXPENSES" are used as a proxy for the economic concepts of net returns above variable costs and net returns above variable plus fixed costs, respectively. Some items are intentionally left out of these calculations, i.e., costs for land or land rent, taxes, insurance premiums, general farm overhead, and expected incomes from government payments or insurance payments. These costs and incomes vary widely among farms and farm situations so as to make routine calculation for representative situations impractical. These items should, however, be considered by each producer and factored into the final budget each producer develops for his own situation.



Table 1.A Estimated costs per acre Soybeans, full-season, Enlist E3, stale seedbed, 12R30" Non-irrigated, Delta Area, Mississippi, 2021

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES CUSTOM SPRAY					
App by Air ( 5 gal) HARVEST AIDS	appl	7.00	4.0000	28.00	
Gramoxone SL Sodium Chlorate 5L	oz gal	0.19 6.77	16.0000 0.6000	3.04 4.06	<del></del>
FERTILIZERS	-				
Phosphorus (46% P205) Potash (60% K20)	cwt cwt	17.31 22.11	0.8700 1.3300	15.06 29.41	
FUNGICIDES CruiserMaxx Vibrance HERBICIDES	OZ	4.75	1.6000	7.60	
Glyphosate 3lbs a.e 2,4-D Amine 4	oz pt	0.13 2.25	64.0000	8.32 4.50	
Select Max	pt	12.74	1.0000	12.74	
Valor SX	OZ	4.51	2.0000	9.02	
Boundary	pt	11.07	2.0000	22.14	
Gramoxone SL 2.0	ΟZ	0.19	48.0000	9.12	
Liberty 280	ΟZ	0.44	29.0000	12.76	
Dual Magnum	pt	13.33	1.0000	13.33	
Zidua DF INSECTICIDES	ΟZ	8.72	1.5000	13.08	
Acephate 90SP	lb	6.42	0.7500	4.81	
IncidentalPestTrt \$8 SEED/PLANTS	acre	8.00	1.0000	8.00	
Soybean Enlist E3 ADJUVANTS	lb	1.20	50.0000	60.00	
Surfactant CUSTOM FERTILIZE	pt	3.30	1.0000	3.30	
Custom Apply Fert	acre	7.50	1.0000	7.50	
Haul Soybeans CUSTOM LIME	bu	0.27	42.0000	11.34	
Lime (Spread)	ton	47.45	0.3330	15.80	
CROP CONSULTANT Soybeans Consultant INOCULANT	acre	6.50	1.0000	6.50	
Inoculant -Soybean	acre	1.55	1.0000	1.55	
SOIL TEST Soil Test	acre	10.00	0.3330	3.33	
OPERATOR LABOR	hour	11 60	0.2942	4.30	
Tractors Harvesters HAND LABOR	hour	14.68 14.68	0.2942	1.25	
Implements	hour	9.06	0.0959	0.87	
UNALLOCATED LABOR DIESEL FUEL	hour	14.64	0.3414	5.00	
Tractors	gal	1.53	3.4079	5.22	
Harvesters REPAIR & MAINTENANCE	gal	1.53	1.4243	2.18	
Implements	acre	5.23	1.0000	5.23	
Tractors	acre	2.15	1.0000	2.15	
Harvesters INTEREST ON OP. CAP.	acre acre	3.50 7.65	1.0000	3.50 7.65	
TOTAL DIRECT EXPENSES				351.66	
FIXED EXPENSES	2020	10.36	1 0000	10.36	
Implements Tractors	acre	13.04	1.0000	13.04	
Harvesters	acre acre	13.41	1.0000	13.41	
TOTAL FIXED EXPENSES				36.81	
TOTAL SPECIFIED EXPENSES				388.47	

Table 1.B Summary of estimated costs and returns per acre Soybeans, full-season, Enlist E3, stale seedbed, 12R30"
Non-irrigated, Delta Area, Mississippi, 2021

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	9.67	42.0000	406.14	
TOTAL INCOME				406.14	
DIRECT EXPENSES					
CUSTOM SPRAY	acre	28.00	1.0000	28.00	
HARVEST AIDS	acre	7.10	1.0000	7.10	
FERTILIZERS	acre	44.47	1.0000	44.47	
FUNGICIDES	acre	7.60	1.0000	7.60	
HERBICIDES		105.01	1.0000	105.01	
INSECTICIDES	acre	12.81	1.0000	12.81	
SEED/PLANTS	acre	60.00	1.0000	60.00	
ADJUVANTS	acre	3.30	1.0000	3.30	
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	
HAULING	acre	11.34	1.0000	11.34	
CUSTOM LIME	acre	15.80	1.0000	15.80	
CROP CONSULTANT	acre	6.50	1.0000	6.50	
INOCULANT	acre	1.55	1.0000	1.55	
SOIL TEST	acre	3.33	1.0000	3.33	
HAND LABOR	hour	9.06	0.0959	0.87	
OPERATOR LABOR	hour	14.68	0.3794	5.55	
UNALLOCATED LABOR	hour	14.64	0.3414	5.00	
DIESEL FUEL	gal	1.53	4.8323	7.40	
REPAIR & MAINTENANCE	acre	10.88	1.0000	10.88	
INTEREST ON OP. CAP.	acre	7.65	1.0000	7.65	
TOTAL DIRECT EXPENSES				351.66	
RETURNS ABOVE DIRECT EX	PENSES			54.48	
TOTAL FIXED EXPENSES				36.81	
TOTAL SPECIFIED EXPENSES	5			388.47	
RETURNS ABOVE TOTAL SPEC	CIFIED E	EXPENSES		17.67	

Table 1.C Estimated resource use for field operations, per acre Soybeans, full-season, Enlist E3, stale seedbed, 12R30" Non-irrigated, Delta Area, Mississippi, 2021

OPERATION/	SIZE/	POWER UNIT		TIMES		INPUT		POWER	ALLOC	UNALL
OPERATING INPUT	UNIT	SIZE	RATE	OVER	MTH	AMOUNT	IMPLEMENT	UNIT	LABOR	LABOR
								hoi	urs	
Soil Test	acre			0.33	Oct	0.3330				
Subsoiler	3 shank	MFWD 225	0.204	0.20	Oct		0.04	0.04	0.04	0.03
Lime (Spread)	ton			0.33	Oct	0.3330				
Custom Apply Fert	acre			1.00	Oct	1.0000				
Phosphorus (46% P205)						0.8700				
Potash (60% K20)	cwt					1.3300				
Disk Harrow	32'	MFWD 225	0.061	1.00	Oct		0.06	0.06	0.06	0.05
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	Oct		0.04	0.04	0.04	0.04
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 31bs a.e	OZ					32.0000				
2,4-D Amine 4	pt					2.0000				
Select Max	pt					1.0000				
Valor SX	OZ					2.0000				
Surfactant	pt					0.4000				
Plant & Pre-Folding	12R-30	MFWD 225	0.067	1.00	Anr	0.1000	0.06	0.06	0.13	0.06
Soybean Enlist E3	1b	111.112 220	0.007	1.00	110-	50.0000	0.00	0.00	0.10	0.00
CruiserMaxx Vibrance						1.6000				
Inoculant -Soybean	acre					1.0000				
Boundary	pt					2.0000				
Gramoxone SL 2.0	OZ					48.0000				
Surfactant	pt					0.4000				
Soybeans Consultant	acre			1.00	Mav	1.0000				
Spray (Broadcast)	60'	MFWD 225	0.028	1.00	Mav	1.0000	0.02	0.02	0.04	0.02
Liberty 280	oz	111.12 220	0.020	1.00	1101	29.0000	0.02	0.02	0.01	0.02
Dual Magnum	pt					1.0000				
Spray (Broadcast)	60 <b>'</b>	MFWD 225	0.028	1.00	Mav	1.0000	0.02	0.02	0.04	0.02
Glyphosate 31bs a.e	oz	111.112 220	0.020	1.00	1101	32.0000	0.02	0.02	0.01	0.02
Zidua DF	oz					1.5000				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Acephate 90SP	lb			1.00	1149	0.7500				
Incidental Pest	10			1.00	Aug	0.7500				
App by Air (5 gal)	appl			1.00	1149	1.0000				
IncidentalPestTrt \$8						1.0000				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Gramoxone SL	OZ			1.00	mug	16.0000				
Sodium Chlorate 5L	gal					0.6000				
Surfactant	pt					0.2000				
Header -Soybean	30' Flex	325 hp	0.085	1.00	Sep	0.2000	0.08	0.08	0.08	0.07
Haul Soybeans	bu	323 11P	0.000	1.00	SCP	42.0000	0.00	0.00	0.00	0.07
Grain Cart Soybean	700 bu	MFWD 225	0.021	1.00	Sep	42.0000	0.02	0.02	0.02	0.01
TOTALS							0.37	0.37	0.47	0.34

Table 1.D Estimated costs for field operations, per acre Soybeans, full-season, Enlist E3, stale seedbed, 12R30" Non-irrigated, Delta Area, Mississippi, 2021

OPERATION/	SIZE/				DIRECT C	OST			FIXED	TOTAL
OPERATING INPUT	UNIT	OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	COST	COST
						dollars-				
Cail Mast		2 22					0 12	2.46		2.46
Soil Test	acre	3.33	0 70	0 00	1 1 4		0.13	3.46	0 01	3.46
Subsoiler	3 shank	45.00	0.72	0.39	1.14		0.09	2.34	2.01	4.35
Lime (Spread)	ton	15.80					0.63	16.43		16.43
Custom Apply Fert	acre	7.50					0.30	7.80		7.80
Phosphorus (46% P205)	cwt	15.06					0.60	15.66		15.66
Potash (60% K20)	cwt	29.41					1.18	30.59		30.59
Disk Harrow	32 <b>'</b>		1.09	1.50	1.71		0.17	4.47	4.85	9.32
Field Cultivate Fld	32 <b>'</b>		0.83	0.85	1.30		0.12	3.10	4.14	7.24
App by Air ( 5 gal)	appl	7.00					0.19	7.19		7.19
Glyphosate 31bs a.e	ΟZ	4.16					0.11	4.27		4.27
2,4-D Amine 4	pt	4.50					0.12	4.62		4.62
Select Max	pt	12.74					0.34	13.08		13.08
Valor SX	οz	9.02					0.24	9.26		9.26
Surfactant	pt	1.32					0.04	1.36		1.36
Plant & Pre-Folding	12R-30		1.20	2.55	2.49		0.12	6.36	6.79	13.15
Soybean Enlist E3	lb	60.00					1.20	61.20		61.20
CruiserMaxx Vibrance	OZ	7.60					0.15	7.75		7.75
Inoculant -Soybean	acre	1.55					0.03	1.58		1.58
Boundary	pt	22.14					0.44	22.58		22.58
Gramoxone SL 2.0	OZ	9.12					0.18	9.30		9.30
Surfactant	pt	1.32					0.03	1.35		1.35
Soybeans Consultant	acre	6.50					0.03	6.61		6.61
Spray (Broadcast)	60'	0.50	0.50	0.38	0.91		0.03	1.82	1.45	3.27
		12.76	0.50	0.30	0.91		0.03	12.97	1.45	12.97
Liberty 280	ΟZ							13.55		13.55
Dual Magnum	pt	13.33	0 50	0 00	0 01		0.22		1 15	
Spray (Broadcast)	60'	4 1 6	0.50	0.38	0.91		0.03	1.82	1.45	3.27
Glyphosate 31bs a.e	OZ	4.16					0.07	4.23		4.23
Zidua DF	ΟZ	13.08					0.22	13.30		13.30
App by Air ( 5 gal)	appl	7.00					0.05	7.05		7.05
Acephate 90SP	lb	4.81					0.03	4.84		4.84
Incidental Pest										
App by Air ( 5 gal)	appl	7.00					0.05	7.05		7.05
IncidentalPestTrt \$8	acre	8.00					0.05	8.05		8.05
App by Air (5 gal)	appl	7.00					0.05	7.05		7.05
Gramoxone SL	OZ	3.04					0.02	3.06		3.06
Sodium Chlorate 5L	gal	4.06					0.03	4.09		4.09
Surfactant	pt	0.66						0.66		0.66
Header -Soybean	30' Flex		2.18	4.43	2.37		0.03	9.01	14.76	23.77
Haul Soybeans	bu	11.34					0.04	11.38	. •	11.38
-	700 bu		0.38	0.40	0.59			1.37	1.36	2.73
TOTALS		314.31	7.40	10.88	11.42	0.00	7.65	351.66	36.81	388.47

Table 1.E Estimated monthly income and expense flows per acre Soybeans, full-season, Enlist E3, stale seedbed, 12R30" Non-irrigated, Delta Area, Mississippi, 2021

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
						doll	ars					
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	406.14
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00	21.00	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.10	0.00
FERTILIZERS	44.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	7.60	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	30.42	0.00	31.26	43.33	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.81	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	60.00	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	1.32	0.00	1.32	0.00	0.00	0.00	0.66	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.34
CUSTOM LIME	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	1.55	0.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	4.15	0.00	0.00	0.00	0.00	0.00	2.49	1.82	0.00	0.00	0.00	2.96
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	2.64	0.00	0.00	0.00	0.00	0.00	1.20	1.00	0.00	0.00	0.00	2.56
REPAIR & MAINTENANCE	2.74	0.00	0.00	0.00	0.00	0.00	2.55	0.76	0.00	0.00	0.00	4.83
INTEREST ON OP. CAP.	3.22	0.00	0.00	0.00	1.04	0.00	2.15	0.89	0.00	0.00	0.28	0.07
TOTAL DIRECT EXPENSES	83.85	0.00	0.00	0.00	39.78	0.00	110.12	54.30	0.00	0.00	41.85	21.76
NET INCOME	-83.85	0.00	0.00	0.00	-39.78	0.00	-110.12	-54.30	0.00	0.00	-41.85	384.38
NET INCOME TO DATE	-83.85	-83.85	-83.85	-83.85	-123.63	-123.63	-233.75	-288.05	-288.05	-288.05	-329.90	54.48

<sup>\*</sup> Lease costs are based on hourly usage costs.

Table 1.F Estimated returns for various price/yield combinations, per acre Soybeans, full-season, Enlist E3, stale seedbed, 12R30"
Non-irrigated, Delta Area, Mississippi, 2021

PRODUCT			75	80	85	90	95	100	105		115	120	125
Sovbeans			7.25	7 72	0 21	8.70		ODUCT PRI 9.67	CE	10.63		11.60	12.08
Soybeans	>		7.25	1.13	0.21	0.70	9.10	9.07	10.13	10.03	11.12	11.00	12.00
PERCENT	YIELD	UNIT					d	ollars					
50	21.00	bu	-193	-183	-173	-163	-153	-142	-132	-122	-112	-102	-92
			-230	-220	-210	-200	-189	-179	-169	-159	-149	-139	-128
60	25.20	bu	-164	-152	-139	-127	-115	-103	-91	<b>-</b> 79	-66	-54	-42
			-201	-188	-176	-164	-152	-140	-128	-115	-103	-91	-79
70	29.40	bu	-135	-120	-106	-92	-78	-63	-49	-35	-21	-7	7
			-171	-157	-143	-129	-114	-100	-86	-72	-58	-43	-29
80	33.60	bu	-105	-89	-73	-56	-40	-24	-8	8	24	40	56
			-142	-126	-110	-93	-77	-61	-45	-28	-12	3	19
90	37.80	bu	-76	-58	-39	-21	-3	15	33	51	69	88	106
			-113	-94	-76	-58	-40	-21	-3	14	33	51	69
100	42.00	bu	-47	-26	-6	13	34	54	74	95	115	135	156
			-83	-63	-43	-22	-2	17	37	58	78	98	119
110	46.20	bu	-17	4	26	49	71	93	116	138	160	183	205
			-54	-32	-9	12	34	57	79	101	124	146	168
120	50.40	bu	11	35	60	84	109	133	157	182	206	230	255
			-25	-0	23	47	72	96	120	145	169	194	218
130	54.60	bu	40	67	93	120	146	172	199	225	252	278	304
			4	30	56	83	109	136	162	188	215	241	268
140	58.80	bu	70	98	127	155	183	212	240	269	297	326	354
			33	61	90	118	147	175	204	232	260	289	317
150	63.00	bu	99	130	160	190	221	251	282	312	343	373	404
			62	93	123	154	184	215	245	275	306	336	367

The top number in each cell is Returns Above Direct Expenses.

The bottom number in each cell is Returns Above Total Specified Expenses.

Note: Cost of production estimates are based on 2020 input prices.

Only the product listed has been varied to calculate net returns.

Table 2.A Estimated costs per acre Soybeans, full-season, Enlist E3, stale seedbed, 12R30" Furrow irrigated, 9 ac-in., Delta Area, Mississippi, 2021

Fullow Illigat		•		MISSISSIPP	
ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
DIRECT EXPENSES CUSTOM SPRAY		dollars		dollars	
App by Air ( 5 gal) HARVEST AIDS	appl	7.00	5.0000	35.00	
Gramoxone SL Sodium Chlorate 5L	oz gal	0.19 6.77	16.0000	3.04 4.06	
FERTILIZERS					
Phosphorus (46% P205) Potash (60% K20)	cwt	17.31 22.11	0.8700 1.3300	15.06 29.41	
FUNGICIDES CruiserMaxx Vibrance Miravis Top	OZ OZ	4.75 1.44	1.6000 13.7000	7.60 19.73	
HERBICIDES Glyphosate 31bs a.e	OZ	0.13	64.0000	8.32	
2,4-D Amine 4 Select Max	pt pt	2.25 12.74	2.0000	4.50 12.74	
Valor SX	ŌΖ	4.51 11.07	2.0000	9.02	
Boundary Gramoxone SL 2.0	pt oz	0.19	48.0000	9.12	
Liberty 280 Dual Magnum	oz pt	0.44 13.33	29.0000 1.0000	12.76 13.33	
Zidua DF INSECTICIDES	ŌZ	8.72	1.5000	13.08	
Acephate 90SP IncidentalPestTrt \$8 IRRIGATION SUPPLIES	lb acre	6.42 8.00	0.7500 1.0000	4.81 8.00	
Roll-Out Pipe	ft	0.24	33.0000	7.92	
SEED/PLANTS Soybean Enlist E3	lb	1.20	50.0000	60.00	
ADJUVANTS Surfactant	pt	3.30	1.1000	3.63	
CUSTOM FERTILIZE Custom Apply Fert	acre	7.50	1.0000	7.50	
HAULING Haul Soybeans	bu	0.27	60.0000	16.20	
CUSTOM LIME Lime (Spread)	ton	47.45	0.3330	15.80	
CROP CONSULTANT Soybeans Consultant	acre	6.50	1.0000	6.50	
INOCULANT Inoculant -Soybean	acre	1.55	1.0000	1.55	
SOIL TEST Soil Test	acre	10.00	0.3330	3.33	
OPERATOR LABOR Tractors	hour	14.68	0.4536	6.65	
Harvesters IRRIGATE LABOR	hour	14.68	0.0851	1.25	
Special Labor Implements HAND LABOR	hour hour	9.06 9.06	0.3000 0.0625	2.73 0.57	
Implements UNALLOCATED LABOR	hour hour	9.06 14.65	0.0959	0.87 6.07	
DIESEL FUEL Tractors		1.53	5.0709	7.77	
Harvesters	gal	1.53	1.4243	2.18	
Roll-Out Pipe Irr. REPAIR & MAINTENANCE	gal	1.53	7.3316	11.22	
Implements Tractors	acre acre	6.18 3.17	1.0000	6.18 3.17	
Harvesters Roll-Out Pipe Irr.	acre acre	3.50 7.16	1.0000	3.50 7.16	
INTEREST ON OP. CAP.	acre	8.56	1.0000	8.56	
TOTAL DIRECT EXPENSES FIXED EXPENSES				422.03	
Implements Tractors	acre acre	13.55 19.27	1.0000	13.55 19.27	
Harvesters	acre	13.41	1.0000	13.41	
Roll-Out Pipe Irr.	acre	51.84	1.0000	51.84	
TOTAL FIXED EXPENSES				98.07	
TOTAL SPECIFIED EXPENSES				520.10	

Table 2.B Summary of estimated costs and returns per acre Soybeans, full-season, Enlist E3, stale seedbed, 12R30" Furrow irrigated, 9 ac-in., Delta Area, Mississippi, 2021

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	9.67	60.0000	580.20	
TOTAL INCOME				580.20	
DIRECT EXPENSES					
CUSTOM SPRAY	acre	35.00	1.0000	35.00	
HARVEST AIDS	acre	7.10	1.0000	7.10	
FERTILIZERS	acre	44.47	1.0000	44.47	
FUNGICIDES	acre	27.33	1.0000	27.33	
HERBICIDES	acre	105.01	1.0000	105.01	
INSECTICIDES	acre	12.81	1.0000	12.81	
IRRIGATION SUPPLIES	acre	7.92	1.0000	7.92	
SEED/PLANTS	acre	60.00	1.0000	60.00	
ADJUVANTS	acre	3.63	1.0000	3.63	
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	
HAULING	acre	16.20	1.0000	16.20	
CUSTOM LIME	acre	15.80	1.0000	15.80	
CROP CONSULTANT	acre	6.50	1.0000	6.50	
INOCULANT	acre	1.55	1.0000	1.55	
SOIL TEST	acre	3.33	1.0000	3.33	
HAND LABOR	hour	9.06	0.0959	0.87	
IRRIGATE LABOR	hour	9.06	0.3625	3.30	
OPERATOR LABOR	hour	14.68	0.5388	7.90	
UNALLOCATED LABOR	hour	14.65	0.4142	6.07	
DIESEL FUEL	gal	1.53	13.8269	21.17	
REPAIR & MAINTENANCE	acre	20.01	1.0000	20.01	
INTEREST ON OP. CAP.	acre	8.56	1.0000	8.56	
TOTAL DIRECT EXPENSES				422.03	
RETURNS ABOVE DIRECT EXP	PENSES			158.17	
TOTAL FIXED EXPENSES				98.07	
TOTAL SPECIFIED EXPENSES	5			520.10	
RETURNS ABOVE TOTAL SPEC	CIFIED	EXPENSES		60.10	

Table 2.C Estimated resource use for field operations, per acre Soybeans, full-season, Enlist E3, stale seedbed, 12R30" Furrow irrigated, 9 ac-in., Delta Area, Mississippi, 2021

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
								ho	urs	
Soil Test	acre			0.33	Oct	0.3330				
Subsoiler	3 shank	MFWD 225	0.204	0.20	Oct		0.04	0.04	0.04	0.03
Lime (Spread)	ton			0.33	Oct	0.3330				
Custom Apply Fert	acre			1.00	Oct	1.0000				
Phosphorus (46% P2O5)	cwt					0.8700				
Potash (60% K20)	cwt					1.3300				
Disk Harrow	32 <b>'</b>	MFWD 225	0.061	1.00	Oct		0.06	0.06	0.06	0.05
Field Cultivate Fld	32 <b>'</b>	MFWD 225	0.046	1.00	Oct		0.04	0.04	0.04	0.04
Bed/Lister-Roll-Fo	12R-30	MFWD 225	0.080	1.00	Oct		0.08	0.08	0.08	0.07
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 31bs a.e	OZ					32.0000				
2,4-D Amine 4	pt					2.0000				
Select Max	pt					1.0000				
Valor SX	OZ					2.0000				
Surfactant	pt					0.4000				
Plant & Pre-Folding	12R-30	MFWD 225	0.067	1.00	Apr		0.06	0.06	0.13	0.06
Soybean Enlist E3	lb				-	50.0000				
CruiserMaxx Vibrance	e oz					1.6000				
Inoculant -Soybean	acre					1.0000				
Boundary	pt					2.0000				
Gramoxone SL 2.0	OZ					48.0000				
Surfactant	pt					0.4000				
Soybeans Consultant	acre			1.00	May	1.0000				
Spray (Broadcast)	60'	MFWD 225	0.028	1.00	May		0.02	0.02	0.04	0.02
Liberty 280	OZ				-	29.0000				
Dual Magnum	pt					1.0000				
Spray (Broadcast)	60 '	MFWD 225	0.028	1.00	May		0.02	0.02	0.04	0.02
Glyphosate 31bs a.e	ΟZ				-	32.0000				
Zidua DF	ΟZ					1.5000				
App by Air (5 gal)	appl			1.00	Jul	1.0000				
Miravis Top	OZ					13.7000				
Surfactant	pt					0.1000				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Acephate 90SP	lb					0.7500				
Incidental Pest				1.00	Aug					
App by Air ( 5 gal)	appl					1.0000				
IncidentalPestTrt \$8						1.0000				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Gramoxone SL	OZ				5	16.0000				
Sodium Chlorate 5L	gal					0.6000				
Surfactant	pt					0.2000				
Header -Soybean	30' Flex	325 hp	0.085	1.00	Sep		0.08	0.08	0.08	0.07
Haul Soybeans	bu				r	60.0000				,
Grain Cart Soybean	700 bu	MFWD 225	0.021	1.00	Sep		0.02	0.02	0.02	0.01
Roll-Out Pipe Irr.	acre	-11.12 220	J. ULI	00	Jul	1.0000	0.07	0.07	0.44	0.01
-r						, , , , ,				
TOTALS							0.53	0.53	0.99	0.41

rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 2.D Estimated costs for field operations, per acre Soybeans, full-season, Enlist E3, stale seedbed, 12R30" Furrow irrigated, 9 ac-in., Delta Area, Mississippi, 2021

OPERATING INPUT  Soil Test Subsoiler	UNIT  acre 3 shank	OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	COST	COST
		0.5-				dollars-				
		3.33					0.13	3.46		3.46
		3.33	0.72	0.39	1.14		0.09	2.34	2.01	4.35
Lime (Spread)	ton	15.80	0.72	0.55	1.11		0.63	16.43	2.01	16.43
Custom Apply Fert	acre	7.50					0.30	7.80		7.80
Phosphorus (46% P2O5)		15.06					0.60	15.66		15.66
Potash (60% K20)	cwt	29.41					1.18	30.59		30.59
Disk Harrow	32'	23.11	1.09	1.50	1.71		0.17	4.47	4.85	9.32
Field Cultivate Fld	32'		0.83	0.85	1.30		0.12	3.10	4.14	7.24
Bed/Lister-Roll-Fo	12R-30		1.43	1.35	2.26		0.20	5.24	5.54	10.78
App by Air (5 gal)	appl	7.00	1.43	1.55	2.20		0.19	7.19	3.34	7.19
Glyphosate 3lbs a.e	OZ	4.16					0.11	4.27		4.27
2,4-D Amine 4	pt	4.50					0.12	4.62		4.62
Select Max	-	12.74					0.12	13.08		13.08
Valor SX	pt oz	9.02					0.24	9.26		9.26
Surfactant		1.32					0.24	1.36		1.36
	pt 12D 20	1.32	1 20	2 55	2 40				6 70	
Plant & Pre-Folding	12R-30	CO 00	1.20	2.55	2.49		0.12	6.36 61.20	6.79	13.15 61.20
Soybean Enlist E3	lb	60.00					1.20			7.75
CruiserMaxx Vibrance		7.60					0.15	7.75		
Inoculant -Soybean	acre	1.55					0.03	1.58		1.58
Boundary	pt	22.14					0.44	22.58		22.58
Gramoxone SL 2.0	OZ	9.12					0.18	9.30		9.30
Surfactant	pt	1.32					0.03	1.35		1.35
Soybeans Consultant	acre	6.50	0 50	0 00	0 01		0.11	6.61	1 45	6.61
Spray (Broadcast)	60 <b>'</b>	10 76	0.50	0.38	0.91		0.03	1.82	1.45	3.27
Liberty 280	OZ	12.76					0.21	12.97		12.97
Dual Magnum	pt	13.33					0.22	13.55		13.55
Spray (Broadcast)	60 <b>'</b>		0.50	0.38	0.91		0.03	1.82	1.45	3.27
Glyphosate 31bs a.e	OZ	4.16					0.07	4.23		4.23
Zidua DF	OZ	13.08					0.22	13.30		13.30
App by Air (5 gal)	appl	7.00					0.07	7.07		7.07
Miravis Top	OZ	19.73					0.20	19.93		19.93
Surfactant	pt	0.33						0.33		0.33
App by Air ( 5 gal)	appl	7.00					0.05	7.05		7.05
Acephate 90SP Incidental Pest	lb	4.81					0.03	4.84		4.84
App by Air (5 gal)	appl	7.00					0.05	7.05		7.05
IncidentalPestTrt \$8		8.00					0.05	8.05		8.05
App by Air (5 gal)	appl	7.00					0.05	7.05		7.05
Gramoxone SL	OZ	3.04					0.03	3.06		3.06
Sodium Chlorate 5L	gal	4.06					0.02	4.09		4.09
Surfactant	_	0.66					0.03	0.66		0.66
Header -Soybean	pt 30' Flex	0.00	2.18	4.43	2.37		0.03	9.01	14.76	23.77
-		16.20	2.10	4.43	2.31		0.05		14.70	16.25
Haul Soybeans	bu 700 bu	10.20	0.38	0.40	0.59		0.05	16.25 1.37	1.36	2.73
Grain Cart Soybean		7.92	12.34	7.78	4.46		0 43	32.93	55.72	88.65
Roll-Out Pipe Irr.	acre	1.92	12.34	1.18	4.40		0.43	32.93	33.12	00.05
TOTALS		354.15	21.17	20.01	18.14	0.00	8.56	422.03	98.07	520.10

Table 2.E Estimated monthly income and expense flows per acre Soybeans, full-season, Enlist E3, stale seedbed, 12R30" Furrow irrigated, 9 ac-in., Delta Area, Mississippi, 2021

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep
						doll	ars					
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	580.20
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00	7.00	21.00	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.10	0.00
FERTILIZERS	44.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	7.60	0.00	0.00	19.73	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	30.42	0.00	31.26	43.33	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.81	0.00
IRRIGATION SUPPLIES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.92	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	60.00	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	1.32	0.00	1.32	0.00	0.00	0.33	0.66	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.20
CUSTOM LIME	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	1.55	0.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	6.97	0.00	0.00	0.00	0.00	0.00	2.49	2.05	2.82	0.23	0.00	3.58
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	4.64	0.00	0.00	0.00	0.00	0.00	1.20	1.00	7.78	3.74	0.00	2.81
REPAIR & MAINTENANCE	4.39	0.00	0.00	0.00	0.00	0.00	2.55	0.76	5.93	1.40	0.00	4.98
INTEREST ON OP. CAP.	3.48	0.00	0.00	0.00	1.04	0.00	2.15	0.89	0.32	0.32	0.28	0.08
TOTAL DIRECT EXPENSES	90.58	0.00	0.00	0.00	39.78	0.00	110.12	54.53	24.77	32.75	41.85	27.65
NET INCOME	-90.58	0.00	0.00	0.00	-39.78	0.00	-110.12	-54.53	-24.77	-32.75	-41.85	552.55
NET INCOME TO DATE	-90.58	-90.58	-90.58	-90.58	-130.36	-130.36	-240.48	-295.01	-319.78	-352.53	-394.38	158.17

<sup>\*</sup> Lease costs are based on hourly usage costs.

Table 2.F Estimated returns for various price/yield combinations, per acre Soybeans, full-season, Enlist E3, stale seedbed, 12R30" Furrow irrigated, 9 ac-in., Delta Area, Mississippi, 2021

		_						-PERCENT-					
PRODUCT			75	80	85	90	95	100	105 CE	110	115	120	125
Soybeans	3		7.25	7.73	8.21	8.70	9.18	9.67	10.15	10.63	11.12	11.60	12.08
PERCENT	YIELD	UNIT -					d	ollars					
50	30.00	bu	-196 -294	-181 -279	-167 -265	-152 -250	-138 -236	-123 -221	-109 -207	-94 -192	-80 -178	-65 -163	-51 -149
60	36.00	bu	-154 -252	-137 -235	-119 -217	-102 -200	-84 -182	-67 -165	-50 -148	-32 -130	-15 -113	2 -95	19 -78
70	42.00	bu	-112 -210	-92 -190	-71 -170	-51 -149	-31 -129	-11 -109	9 -88	29 -68	49 -48	70 -27	90 -7
80	48.00	bu	-70 -168	-47 -145	-24 -122	-1 -99	22 <b>-</b> 75	45 -52	68 <b>-</b> 29	91 -6	115 16	138 40	161 63
90	54.00	bu	-28 -126	-2 -100	23 -74	49 -48	75 -22	101	127 29	153 55	180 82	206 108	232 134
100	60.00	bu	13 -84	42 -55	71 -26	100	129 31	158 60	187 89	216 118	245 147	274 176	303 205
110	66.00	bu	55 -43	86 -11	118 20	150 52	182 84	214 116	246 148	278 180	310 212	342 244	374 276
120	72.00	bu	96 -1	131 33	166 68	201 103	236 138	270 172	305 207	340 242	375 277	410 312	445 346
130	78.00	bu	138 40	176 78	214 116	251 153	289 191	327 229	365 266	402 304	440 342	478 380	515 417
140	84.00	bu	180 82	221 123	261 163	302 204	343 245	383 285	424 326	464 366	505 407	546 448	586 488
150	90.00	bu	222 124	266 168	309 211	353 255	396 298	440 342	483 385	527 429	570 472	614 516	657 559

The top number in each cell is Returns Above Direct Expenses.

The bottom number in each cell is Returns Above Total Specified Expenses. Only the product listed has been varied to calculate net returns.

Note: Cost of production estimates are based on 2020 input prices.

Table 3.A Estimated costs per acre Soybeans, full-season, Enlist E3, stale seedbed, 12R30" Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2021

riood iiiigatt	5a, 13.5		Deita Alea,		PP1, 2021
ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
DIDEOM EVDENOSO		dollars		dollars	
DIRECT EXPENSES CUSTOM SPRAY					
App by Air ( 5 gal) HARVEST AIDS	appl	7.00	4.0000	28.00	
Gramoxone SL	OZ	0.19	16.0000	3.04	
Sodium Chlorate 5L FERTILIZERS	gal	6.77	0.6000	4.06	
Phosphorus (46% P205)		17.31	0.8700	15.06	
Potash (60% K20) FUNGICIDES	cwt	22.11	1.3300	29.41	
CruiserMaxx Vibrance Miravis Top	OZ OZ	4.75 1.44	1.6000 13.7000	7.60 19.73	
HERBICIDES	02				<del></del>
Glyphosate 31bs a.e Select Max	oz pt	0.13 12.74	64.0000 1.0000	8.32 12.74	
Valor SX	OZ	4.51	2.0000	9.02	
Boundary Gramoxone SL 2.0	pt oz	11.07 0.19	2.0000 48.0000	22.14 9.12	
Liberty 280	OZ	0.44	29.0000	12.76	
Dual Magnum INSECTICIDES	pt	13.33	1.0000	13.33	
Acephate 90SP	lb	6.42	0.7500	4.81	
IncidentalPestTrt \$8 SEED/PLANTS	acre	8.00	1.0000	8.00	
Soybean Enlist E3	lb	1.20	50.0000	60.00	
ADJUVANTS Surfactant	pt	3.30	1.1000	3.63	
CUSTOM FERTILIZE Custom Apply Fert	acre	7.50	1.0000	7.50	
HAULING	_	0.27	53.0000	14.31	
Haul Soybeans SURVEY & MARK LEVEES	bu	0.27	33.0000		
Survey & Mark Levees CUSTOM LIME	acre	4.50	0.5000	2.25	
Lime (Spread)	ton	47.45	0.3330	15.80	
CROP CONSULTANT Soybeans Consultant	acre	6.50	1.0000	6.50	
INOCULANT Inoculant -Soybean	acre	1.55	1.0000	1.55	
SOIL TEST Soil Test	acre	10.00	0.3330	3.33	
OPERATOR LABOR	_				
Tractors Harvesters	hour hour	14.68 14.68	0.4377 0.0851	6.37 1.25	
IRRIGATE LABOR	_				
Special Labor HAND LABOR	hour	9.06	0.3125	2.82	
Implements	hour	9.06	0.1100	1.00	
UNALLOCATED LABOR DIESEL FUEL	hour	14.61	0.2880	4.21	
Tractors	gal	1.53	4.4959	6.90	
Harvesters Contour Flood Irr.	gal gal	1.53 1.53	1.4243 10.9974	2.18 16.83	
REPAIR & MAINTENANCE	-				
Implements Tractors	acre acre	5.09 2.73	1.0000	5.09 2.73	
Harvesters	acre	3.50	1.0000	3.50	
Contour Flood Irr. INTEREST ON OP. CAP.	acre acre	14.31 8.18	1.0000	14.31 8.18	
	ucic	0.10	-		<del></del>
TOTAL DIRECT EXPENSES FIXED EXPENSES				397.38	
Implements	acre	9.53	1.0000	9.53	
Tractors Harvesters	acre acre	16.59 13.41	1.0000	16.59 13.41	
Contour Flood Irr.	acre	41.43	1.0000	41.43	
TOTAL FIXED EXPENSES			_	80.96	_
			_		
TOTAL SPECIFIED EXPENSES				478.34	

Table 3.B Summary of estimated costs and returns per acre Soybeans, full-season, Enlist E3, stale seedbed, 12R30" Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2021

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	9.67	53.0000	512.51	
TOTAL INCOME				512.51	
DIRECT EXPENSES					
CUSTOM SPRAY	acre	28.00	1.0000	28.00	
HARVEST AIDS	acre	7.10	1.0000	7.10	
FERTILIZERS	acre	44.47	1.0000	44.47	
FUNGICIDES	acre	27.33	1.0000	27.33	
HERBICIDES	acre	87.43	1.0000	87.43	
INSECTICIDES	acre	12.81	1.0000	12.81	
SEED/PLANTS	acre	60.00	1.0000	60.00	
ADJUVANTS	acre	3.63	1.0000	3.63	
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	
HAULING	acre	14.31	1.0000	14.31	
SURVEY & MARK LEVEES	acre	2.25	1.0000	2.25	
CUSTOM LIME	acre	15.80	1.0000	15.80	
CROP CONSULTANT	acre	6.50	1.0000	6.50	
INOCULANT	acre	1.55	1.0000	1.55	
SOIL TEST	acre	3.33	1.0000	3.33	
HAND LABOR	hour	9.06	0.1100	1.00	
IRRIGATE LABOR	hour	9.06	0.3125	2.82	
OPERATOR LABOR	hour	14.68	0.5229	7.62	
UNALLOCATED LABOR	hour	14.61	0.2880	4.21	
DIESEL FUEL	gal	1.53	16.9177	25.91	
REPAIR & MAINTENANCE	acre	25.63	1.0000	25.63	
INTEREST ON OP. CAP.	acre	8.18	1.0000	8.18	
TOTAL DIRECT EXPENSES				397.38	
RETURNS ABOVE DIRECT EXP	PENSES			115.13	
TOTAL FIXED EXPENSES				80.96	
TOTAL SPECIFIED EXPENSES	5			478.34	
RETURNS ABOVE TOTAL SPEC	CIFIED E	EXPENSES		34.17	

Table 3.C Estimated resource use for field operations, per acre Soybeans, full-season, Enlist E3, stale seedbed, 12R30" Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2021

OPERATION/	SIZE/	POWER UNIT		TIMES		INPUT		POWER	ALLOC	UNALL
OPERATING INPUT	UNIT	SIZE	RATE	OVER	MTH	AMOUNT	IMPLEMENT	UNIT	LABOR	LABOR
								ho	urs	
Soil Test	acre			0.33	Nov	0.3330				
Disk Harrow	32'	MFWD 225	0.061	1.00	Nov		0.06	0.06	0.06	0.05
Lime (Spread)	ton			0.33	Nov	0.3330				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Phosphorus (46% P2O5)	cwt					0.8700				
Potash (60% K20)	cwt					1.3300				
Spray (Broadcast)	60'	MFWD 225	0.028	1.00	Feb		0.02	0.02	0.04	0.02
Glyphosate 31bs a.e	OZ					32.0000				
Select Max	pt					1.0000				
Surfactant	pt					0.4000				
Valor SX	OZ					2.0000				
Soybeans Consultant	acre			1.00	May	1.0000				
Plant & Pre-Folding	12R-30	MFWD 225	0.067	1.00	May		0.06	0.06	0.13	0.06
Soybean Enlist E3	lb					50.0000				
CruiserMaxx Vibrance	e oz					1.6000				
Inoculant -Soybean	acre					1.0000				
Boundary	pt					2.0000				
Gramoxone SL 2.0	OZ					48.0000				
Surfactant	pt					0.4000				
Spray (Broadcast)	60'	MFWD 225	0.028	1.00	May		0.02	0.02	0.04	0.02
Liberty 280	OZ					29.0000				
Dual Magnum	pt					1.0000				
Spray (Broadcast)	60 <b>'</b>	MFWD 225	0.028	1.00	Jun		0.02	0.02	0.04	0.02
Glyphosate 31bs a.e	OZ					32.0000				
App by Air ( 5 gal)	appl			1.00	Jul	1.0000				
Miravis Top	OZ					13.7000				
Surfactant	pt					0.1000				
App by Air ( 5 gal)	appl			1.00	Aug	1.0000				
Acephate 90SP	lb					0.7500				
Incidental Pest				1.00	Sep					
App by Air ( 5 gal)	appl					1.0000				
IncidentalPestTrt \$8	acre					1.0000				
App by Air (5 gal)	appl			1.00	Sep	1.0000				
Gramoxone SL	OZ					16.0000				
Sodium Chlorate 5L	gal					0.6000				
Surfactant	pt					0.2000				
Header -Soybean	30' Flex	325 hp	0.085	1.00	Oct		0.08	0.08	0.08	0.07
Haul Soybeans	bu	-				53.0000				
Grain Cart Soybean	700 bu	MFWD 225	0.021	1.00	Oct		0.02	0.02	0.02	0.01
Contour Flood Irr.	acre				Jul	1.0000	0.20	0.20	0.51	
momat c							0 50	0.50		0.28
TOTALS							0.52	0.52	0.94	0.28

Table 3.D Estimated costs for field operations, per acre Soybeans, full-season, Enlist E3, stale seedbed, 12R30" Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2021

OPERATION/	SIZE/				DIRECT C	OST			FIXED	TOTAL
OPERATING INPUT	UNIT	OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	COST	COST
						dollars-				
Soil Test	acre	3.33					0.13	3.46		3.46
Disk Harrow	32'		1.09	1.50	1.71		0.17	4.47	4.85	9.32
Lime (Spread)	ton	15.80					0.63	16.43		16.43
Custom Apply Fert	acre	7.50					0.30	7.80		7.80
Phosphorus (46% P2O5)	cwt	15.06					0.60	15.66		15.66
Potash (60% K20)	cwt	29.41					1.18	30.59		30.59
Spray (Broadcast)	60 <b>'</b>		0.50	0.38	0.91		0.05	1.84	1.45	3.29
Glyphosate 31bs a.e	OZ	4.16					0.12	4.28		4.28
Select Max	pt	12.74					0.38	13.12		13.12
Surfactant	pt	1.32					0.04	1.36		1.36
Valor SX	OZ	9.02					0.27	9.29		9.29
Soybeans Consultant	acre	6.50					0.13	6.63		6.63
Plant & Pre-Folding	12R-30		1.20	2.55	2.49		0.12	6.36	6.79	13.15
Sovbean Enlist E3	lb	60.00	1.20	2.00	2.13		1.20	61.20	0.73	61.20
CruiserMaxx Vibrance		7.60					0.15	7.75		7.75
Inoculant -Soybean	acre	1.55					0.03	1.58		1.58
Boundary	pt	22.14					0.44	22.58		22.58
Gramoxone SL 2.0	OZ	9.12					0.18	9.30		9.30
Surfactant	pt	1.32					0.10	1.35		1.35
Spray (Broadcast)	60 <b>'</b>	1.32	0.50	0.38	0.91		0.03	1.83	1.45	3.28
	OZ	12.76	0.50	0.30	0.91		0.04	13.02	1.43	13.02
Liberty 280										
Dual Magnum	pt 60'	13.33	0 50	0 20	0 01		0.27	13.60	1 45	13.60
Spray (Broadcast)		1 1 6	0.50	0.38	0.91		0.03	1.82	1.45	3.27
Glyphosate 3lbs a.e	oz	4.16					0.07	4.23		4.23
App by Air (5 gal)	appl	7.00					0.09	7.09		7.09
Miravis Top	OZ	19.73					0.26	19.99		19.99
Surfactant	pt	0.33						0.33		0.33
App by Air (5 gal)	appl	7.00					0.07	7.07		7.07
Acephate 90SP	lb	4.81					0.05	4.86		4.86
Incidental Pest										
App by Air ( 5 gal)	appl	7.00					0.05	7.05		7.05
IncidentalPestTrt \$8	acre	8.00					0.05	8.05		8.05
App by Air ( 5 gal)	appl	7.00					0.05	7.05		7.05
Gramoxone SL	OZ	3.04					0.02	3.06		3.06
Sodium Chlorate 5L	gal	4.06					0.03	4.09		4.09
Surfactant	pt	0.66						0.66		0.66
Header -Soybean	30' Flex		2.18	4.43	2.37		0.03	9.01	14.76	23.77
Haul Soybeans	bu	14.31					0.05	14.36		14.36
Grain Cart Soybean	700 bu		0.38	0.40	0.59			1.37	1.36	2.73
Contour Flood Irr.	acre	2.25	19.56	15.61	5.76		0.61	43.79	48.85	92.64
TOTALS		322.01	25.91	25.63	15.65	0.00	8.18	397.38	80.96	478.34

Table 3.E Estimated monthly income and expense flows per acre Soybeans, full-season, Enlist E3, stale seedbed, 12R30" Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2021

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
						doll	ars					
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	512.51
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.00	7.00	14.00	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.10	0.00
FERTILIZERS	44.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	7.60	0.00	19.73	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	25.92	0.00	0.00	57.35	4.16	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.81	8.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	60.00	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	1.32	0.00	0.00	1.32	0.00	0.33	0.00	0.66	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.31
SURVEY & MARK LEVEES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.25	0.00	0.00	0.00	0.00
CUSTOM LIME	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	1.55	0.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	1.71	0.00	0.00	0.91	0.00	0.00	3.85	2.78	1.63	1.63	0.18	2.96
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	1.09	0.00	0.00	0.50	0.00	0.00	1.70	7.11	6.39	6.39	0.17	2.56
REPAIR & MAINTENANCE	1.50	0.00	0.00	0.38	0.00	0.00	2.93	9.57	3.17	3.17	0.08	4.83
INTEREST ON OP. CAP.	3.01	0.00	0.00	0.86	0.00	0.00	2.86	0.43	0.50	0.24	0.20	0.08
TOTAL DIRECT EXPENSES	78.41	0.00	0.00	29.89	0.00	0.00	145.66	26.30	38.75	23.24	30.39	24.74
NET INCOME	-78.41	0.00	0.00	-29.89	0.00	0.00	-145.66	-26.30	-38.75	-23.24	-30.39	487.77
NET INCOME TO DATE	-78.41	-78.41	-78.41	-108.30	-108.30	-108.30	-253.96	-280.26	-319.01	-342.25	-372.64	115.13

<sup>\*</sup> Lease costs are based on hourly usage costs.

Table 3.F Estimated returns for various price/yield combinations, per acre Soybeans, full-season, Enlist E3, stale seedbed, 12R30"
Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2021

PRODUCT			75	80	85	90	95	100	105		115	120	125
Sovbeans			7.25	7 72	0 01	8.70		ODUCT PRI 9.67	CE	10.63		11.60	12.08
soybeans	5		7.25	7.73	8.21	8.70	9.18	9.67	10.15	10.63	11.12	11.60	12.08
PERCENT	YIELD	UNIT					d	ollars					
50	26.50	bu	-198	-185	-172	-159	-146	-133	-121	-108	-95	-82	-69
			-278	-266	-253	-240	-227	-214	-202	-189	-176	-163	-150
60	31.80	bu	-161	-145	-130	-114	-99	-84	-68	-53	-38	-22	-7
			-241	-226	-211	-195	-180	-165	-149	-134	-118	-103	-88
70	37.10	bu	-124	-106	-88	-70	<del>-</del> 52	-34	-16	1	19	37	55
			-204	-187	-169	-151	-133	-115	-97	-79	-61	-43	-25
80	42.40	bu	-87	-66	-46	-25	-5	15	36	56	77	97	118
			-167	-147	-126	-106	-85	-65	-44	-24	-3	16	37
90	47.70	bu	-50	-26	-3	19	42	65	88	111	134	157	180
			-130	-107	-84	-61	-38	-15	7	30	53	76	99
100	53.00	bu	-12	12	38	63	89	115	140	166	192	217	243
			-93	-68	-42	-17	8	34	59	85	111	136	162
110	58.30	bu	24	52	80	108	136	164	193	221	249	277	305
			-56	-28	-0	27	55	83	112	140	168	196	224
120	63.60	bu	61	91	122	153	184	214	245	276	307	337	368
			-19	10	41	72	103	133	164	195	226	256	287
130	68.90	bu	98	131	164	197	231	264	297	331	364	397	431
			17	50	83	116	150	183	216	250	283	316	350
140	74.20	bu	135	170	206	242	278	314	350	386	422	457	493
			54	89	125	161	197	233	269	305	341	376	412
150	79.50	bu	172	210	248	287	325	364	402	441	479	517	556
			91	129	167	206	244	283	321	360	398	436	475

The top number in each cell is Returns Above Direct Expenses.

The bottom number in each cell is Returns Above Total Specified Expenses.

Note: Cost of production estimates are based on 2020 input prices.

Only the product listed has been varied to calculate net returns.

Table 4.A Estimated costs per acre Soybeans, double crop after wheat, Enlist E3, 12R30" Pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2021

TIVOC TITIGAC	ca, 7.0	ac ±11., 1.	ii Aleas,	111001001PF	,
ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES CUSTOM SPRAY	_		4 000	0.0.0.	
App by Air ( 5 gal) FERTILIZERS	appl	7.00	4.0000	28.00	
Phosphorus (46% P205) Potash (60% K20)	cwt cwt	17.31 22.11	0.8700 1.3300	15.06 29.41	
FUNGICIDES CruiserMaxx Vibrance		4.75	1.6000	7.60	
Miravis Top HERBICIDES	OZ	1.44	13.7000	19.73	
Boundary	pt	11.07	2.0000	22.14	
Gramoxone SL 2.0 Liberty 280	OZ OZ	0.19 0.44	48.0000 29.0000	9.12 12.76	
Dual Māgnum	pt	13.33	1.0000	13.33	
INSECTICIDES Acephate 90SP	lb	6.42	0.7500	4.81	
Prevathon	OZ	1.05	14.0000	14.70	
Bifenthrin	OZ	0.94	6.4000	6.02	
IncidentalPestTrt \$8 SEED/PLANTS		8.00	1.0000	8.00	
Soybean Enlist E3 ADJUVANTS	lb	1.20	50.0000	60.00	
Surfactant CUSTOM FERTILIZE	pt	3.30	0.6000	1.98	
Custom Apply Fert HAULING	acre	7.50	1.0000	7.50	
Haul Soybeans CUSTOM LIME	bu	0.27	50.0000	13.50	
Lime (Spread) CROP CONSULTANT	ton	47.45	0.3330	15.80	
Soybeans Consultant INOCULANT	acre	6.50	1.0000	6.50	
Inoculant -Soybean SOIL TEST	acre	1.55	1.0000	1.55	
Soil Test OPERATOR LABOR	acre	10.00	0.3330	3.33	
Tractors Harvesters	hour hour	14.68 14.68	0.1171 0.1021	1.71 1.50	
IRRIGATE LABOR	HOUL	14.00	0.1021	1.50	
Special Labor HAND LABOR	hour	9.06	0.0518	0.47	
Implements UNALLOCATED LABOR	hour hour	9.06 14.68	0.0817 0.1886	0.74 2.77	
DIESEL FUEL	,	1 50	1 2567	0.00	
Tractors	gal	1.53	1.3567	2.08	
Harvesters 1/2-mi Pivot Irr.	gal gal	1.53 1.53	1.3935 16.4057	2.13 25.10	
REPAIR & MAINTENANCE	yaı	1.00	10.4057	23.10	
Implements	acre	3.40	1.0000	3.40	
Tractors	acre	0.85	1.0000	0.85	
Harvesters	acre	4.16	1.0000	4.16	
1/2-mi Pivot Irr. INTEREST ON OP. CAP.	acre acre	12.00 6.53	1.0000	12.00 6.53	
TOTAL DIRECT EXPENSES FIXED EXPENSES				364.28	
Implements	acre	5.75	1.0000	5.75	
Tractors	acre	5.19	1.0000	5.19	
Harvesters	acre	15.93	1.0000	15.93	
1/2-mi Pivot Irr.	acre	40.89	1.0000	40.89	
TOTAL FIXED EXPENSES				67.76	
TOTAL SPECIFIED EXPENSES				432.04	

Table 4.B Summary of estimated costs and returns per acre Soybeans, double crop after wheat, Enlist E3, 12R30" Pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2021

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	<del></del>
INCOME				= .	
Soybeans	bu	9.67	50.0000	483.50	
TOTAL INCOME				483.50	
DIRECT EXPENSES					
CUSTOM SPRAY	acre	28.00	1.0000	28.00	
FERTILIZERS	acre	44.47	1.0000	44.47	
FUNGICIDES	acre	27.33	1.0000	27.33	
HERBICIDES	acre	57.35	1.0000		
INSECTICIDES	acre	33.53	1.0000	33.53	
SEED/PLANTS	acre	60.00		60.00	
ADJUVANTS	acre	1.98	1.0000	1.98	
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	
HAULING	acre	13.50	1.0000		
CUSTOM LIME	acre		1.0000		
CROP CONSULTANT	acre	6.50	1.0000	6.50	
INOCULANT	acre	1.55	1.0000	1.55	
SOIL TEST	acre	3.33			
HAND LABOR	hour	9.06	0.0817	0.74	
IRRIGATE LABOR	hour	9.06	0.0518	0.47	
OPERATOR LABOR	hour	14.68	0.2193	3.21	
UNALLOCATED LABOR	hour	14.68	0.1886	2.77	
DIESEL FUEL		1.53	19.1560	29.31	
REPAIR & MAINTENANCE	acre	20.41	1.0000	20.41	
INTEREST ON OP. CAP.	acre		1.0000	6.53	
TOTAL DIRECT EXPENSES				364.28	
RETURNS ABOVE DIRECT EXI	PENSES			119.22	
TOTAL FIXED EXPENSES				67.76	
TOTAL SPECIFIED EXPENSES	S			432.04	
RETURNS ABOVE TOTAL SPEC		EXPENSES		51.46	

Table 4.C Estimated resource use for field operations, per acre Soybeans, double crop after wheat, Enlist E3, 12R30" Pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2021

OPERATION/	SIZE/	POWER UNIT	PERF	TIMES		INPUT		POWER	ALLOC	UNALL
OPERATING INPUT	UNIT	SIZE	RATE	OVER	MTH	AMOUNT	IMPLEMENT	UNIT	LABOR	LABOR
								hoi	urs	
Soil Test	acre			0.33	Nov	0.3330				
Lime (Spread)	ton			0.33	Nov	0.3330				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Phosphorus(46% P2O5)	cwt					0.8700				
Potash (60% K20)	cwt					1.3300				
Soybeans Consultant	acre			1.00	May	1.0000				
Plant & Pre-Folding	12R-30	MFWD 225	0.067	1.00	Jun		0.06	0.06	0.13	0.05
Soybean Enlist E3	lb					50.0000				
CruiserMaxx Vibrance	OZ					1.6000				
Inoculant -Soybean	acre					1.0000				
Boundary	pt					2.0000				
Gramoxone SL 2.0	OZ					48.0000				
Surfactant	pt					0.4000				
Spray (Broadcast)	60'	MFWD 225	0.028	1.00	Jul		0.02	0.02	0.04	0.02
Liberty 280	OZ					29.0000				
Dual Magnum	pt					1.0000				
App by Air ( 5 gal)	appl			1.00	Aug	1.0000				
Miravis Top	OZ					13.7000				
Surfactant	pt					0.1000				
App by Air ( 5 gal)	appl			1.00	Aug	1.0000				
Acephate 90SP	lb					0.7500				
App by Air ( 5 gal)	appl			1.00	Aug	1.0000				
Prevathon	OZ					14.0000				
Surfactant	pt					0.1000				
Bifenthrin	OZ					6.4000				
Incidental Pest				1.00	Sep					
App by Air ( 5 gal)	appl					1.0000				
IncidentalPestTrt \$8	acre					1.0000				
Header -Soybean	25' Flex	265 hp	0.102	1.00	Oct		0.10	0.10	0.10	0.08
Haul Soybeans	bu					50.0000				
Grain Cart Soybean	700 bu	MFWD 225	0.021	1.00	Oct		0.02	0.02	0.02	0.01
1/2-mi Pivot Irr.	acre				Jul	1.0000			0.05	
TOTALS							0.21	0.21	0.35	0.18

Table 4.D Estimated costs for field operations, per acre Soybeans, double crop after wheat, Enlist E3, 12R30" Pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2021

OPERATION/	SIZE/			FIXED	TOTAL					
OPERATING INPUT	UNIT	OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	COST	COST
						dollars-				
Soil Test	acre	3.33					0.13	3.46		3.46
Lime (Spread)	ton	15.80					0.63	16.43		16.43
Custom Apply Fert	acre	7.50					0.30	7.80		7.80
Phosphorus (46% P205)	cwt	15.06					0.60	15.66		15.66
Potash (60% K20)	cwt	29.41					1.18	30.59		30.59
Soybeans Consultant	acre	6.50					0.13	6.63		6.63
Plant & Pre-Folding	12R-30		1.20	2.55	2.45		0.10	6.30	6.79	13.09
Soybean Enlist E3	lb	60.00					1.00	61.00		61.00
CruiserMaxx Vibrance	ΟZ	7.60					0.13	7.73		7.73
Inoculant -Soybean	acre	1.55					0.03	1.58		1.58
Boundary	pt	22.14					0.37	22.51		22.51
Gramoxone SL 2.0	OZ	9.12					0.15	9.27		9.27
Surfactant	pt	1.32					0.02	1.34		1.34
Spray (Broadcast)	60 ·		0.50	0.38	0.90		0.02	1.80	1.45	3.25
Liberty 280	ΟZ	12.76					0.17	12.93		12.93
Dual Magnum	pt	13.33					0.18	13.51		13.51
App by Air (5 gal)	appl	7.00					0.07	7.07		7.07
Miravis Top	OZ	19.73					0.20	19.93		19.93
Surfactant	pt	0.33						0.33		0.33
App by Air ( 5 gal)	appl	7.00					0.07	7.07		7.07
Acephate 90SP	lb	4.81					0.05	4.86		4.86
App by Air ( 5 gal)	appl	7.00					0.07	7.07		7.07
Prevathon	OZ	14.70					0.15	14.85		14.85
Surfactant	pt	0.33						0.33		0.33
Bifenthrin	OZ	6.02					0.06	6.08		6.08
Incidental Pest										
App by Air ( 5 gal)	appl	7.00					0.05	7.05		7.05
IncidentalPestTrt \$8	acre	8.00					0.05	8.05		8.05
Header -Soybean	25' Flex		2.13	5.08	2.79		0.03	10.03	17.27	27.30
Haul Soybeans	bu	13.50					0.05	13.55		13.55
Grain Cart Soybean	700 bu		0.38	0.40	0.58			1.36	1.36	2.72
1/2-mi Pivot Irr.	acre		25.10	12.00	0.47		0.54	38.11	40.89	79.00
TOTALS		300.84	29.31	20.41	7.19	0.00	6.53	364.28	67.76	432.04

Table 4.E Estimated monthly income and expense flows per acre Soybeans, double crop after wheat, Enlist E3, 12R30" Pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2021

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
						dolla	ars					
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	483.50
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.00	7.00	0.00
FERTILIZERS	44.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.60	0.00	19.73	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31.26	26.09	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.53	8.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	60.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.32	0.00	0.66	0.00	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.50
CUSTOM LIME	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.55	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	0.00	0.00	0.00	0.00	0.34	2.49	0.95	0.04	0.00	3.37
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.73	10.54	7.53	0.00	2.51
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.96	1.29	0.68	0.00	5.48
INTEREST ON OP. CAP.	2.84	0.00	0.00	0.00	0.00	0.00	0.14	2.10	0.52	0.75	0.10	0.08
TOTAL DIRECT EXPENSES	73.94	0.00	0.00	0.00	0.00	0.00	6.98	128.01	39.39	75.92	15.10	24.94
NET INCOME	-73.94	0.00	0.00	0.00	0.00	0.00	-6.98	-128.01	-39.39	-75.92	-15.10	458.56
NET INCOME TO DATE	-73.94	-73.94	-73.94	-73.94	-73.94	-73.94	-80.92	-208.93	-248.32	-324.24	-339.34	119.22

<sup>\*</sup> Lease costs are based on hourly usage costs.

Table 4.F Estimated returns for various price/yield combinations, per acre Soybeans, double crop after wheat, Enlist E3, 12R30"
Pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2021

		-						-PERCENT-					
PRODUCT		75	80	85	90	95	100	105 CE	110	115	120	125	
		7.25	7.73	8.21	8.70	9.18	9.67	10.15	10.63	11.12	11.60	12.08	
PERCENT	YIELD	UNIT -					d	ollars					
50	25.00	bu	-176 -243	-164 -231	-152 -219	-139 -207	-127 -195	-115 -183	-103 -171	-91 -159	-79 -147	-67 -135	-55 -123
60	30.00	bu	-141 -209	-126 -194	-112 -180	-97 -165	-83 -151	-68 -136	-54 -122	-39 -107	-25 -93	-10 -78	3 -63
70	35.00	bu	-106 -174	-89 -157	-72 -140	-55 -123	-38 -106	-21 -89	-4 -72	12 -55	29 -38	45 -21	62 -4
80	40.00	bu	-71 -139	-52 -119	-32 -100	-13 -81	5 -61	25 -42	44 -23	63 -3	83 15	102 34	121 54
90	45.00	bu	-36 -104	-14 -82	6 -60	28 -39	50 -17	72 4	93 26	115 47	137 69	159 91	181 113
100	50.00	bu	-1 -69	22 -45	46 -21	70 3	95 27	119 51	143 75	167 99	191 123	215 148	240 172
110	55.00	bu	33 -34	59 -7	86 18	113 45	139 71	166 98	192 125	219 151	245 178	272 204	299 231
120	60.00	bu	68 0	97 29	126 58	155 87	184 116	213 145	242 174	271 203	300 232	329 261	358 290
130	65.00	bu	103 35	134 66	165 98	197 129	228 161	260 192	291 223	323 255	354 286	385 318	417 349
140	70.00	bu	137 70	171 104	205 137	239 171	273 205	307 239	341 273	374 307	408 340	442 374	476 408
150	75.00	bu	172 105	209 141	245 177	281 213	317 250	354 286	390 322	426 358	462 395	499 431	535 467

The top number in each cell is Returns Above Direct Expenses.

The bottom number in each cell is Returns Above Total Specified Expenses.

Note: Cost of production estimates are based on 2020 input prices.

Only the product listed has been varied to calculate net returns.

Table 5.A Estimated costs per acre Soybeans, full-season, Enlist E3, April planted, 12R30" Non-Delta Area, Mississippi, 2021

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES CUSTOM SPRAY					
App by Air ( 5 gal)	appl	7.00	2.0000	14.00	
HARVEST AIDS		0 10	16.0000	3.04	
Gramoxone SL FERTILIZERS	ΟZ	0.19	16.0000	3.04	
Phosphorus (46% P205)		17.31	0.6600	11.42	
Potash (60% K20) FUNGICIDES	cwt	22.11	1.0000	22.11	
CruiserMaxx Vibrance HERBICIDES	ΟZ	4.75	1.6000	7.60	
Glyphosate 31bs a.e	OZ	0.13	64.0000	8.32	
2,4-D Amine 4	pt	2.25	2.0000	4.50	
Boundary	pt	11.07	2.0000	22.14	
Gramoxone SL 2.0	OZ	0.19	48.0000	9.12	
Liberty 280 Dual Magnum	oz pt	0.44 13.33	29.0000 1.0000	12.76 13.33	
INSECTICIDES	рt	13.33	1.0000	13.33	
Acephate 90SP	lb	6.42	0.7500	4.81	
SEED/PLANTS Soybean Enlist E3	lb	1.20	50.0000	60.00	
ADJUVANTS Surfactant	pt	3.30	0.6000	1.98	
CUSTOM FERTILIZE	-				
Custom Apply Fert HAULING	acre	7.50	1.0000	7.50	
Haul Soybeans	bu	0.27	43.0000	11.61	
CUSTOM LIME Lime (Spread)	ton	47.45	0.3330	15.80	
CROP CONSULTANT					
Soybeans Consultant SOIL TEST	acre	6.50	1.0000	6.50	
Soil Test OPERATOR LABOR	acre	10.00	0.3330	3.33	
Tractors	hour	14.68	0.2767	4.04	
Harvesters	hour	14.68	0.1021	1.50	
HAND LABOR					
Implements	hour	9.06	0.1051	0.96	
UNALLOCATED LABOR DIESEL FUEL	hour	14.66	0.3410	5.00	
Tractors	gal	1.53	3.2054	4.91	
Harvesters	gal	1.53	1.3935	2.13	
REPAIR & MAINTENANCE	-				
Implements	acre	4.93	1.0000	4.93	
Tractors Harvesters	acre acre	2.03 4.16	1.0000	2.03 4.16	
INTEREST ON OP. CAP.	acre	6.02	1.0000	6.02	
TOTAL DIRECT EXPENSES				275.55	
FIXED EXPENSES Implements	acre	9.67	1.0000	9.67	
Tractors	acre	12.27	1.0000	12.27	
Harvesters	acre	15.93	1.0000	15.93	
TOTAL FIXED EXPENSES				37.87	
TOTAL SPECIFIED EXPENSES				313.42	

Table 5.B Summary of estimated costs and returns per acre Soybeans, full-season, Enlist E3, April planted, 12R30" Non-Delta Area, Mississippi, 2021

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	9.67	43.0000	415.81	
TOTAL INCOME				415.81	
DIRECT EXPENSES					
CUSTOM SPRAY	acre	14.00	1.0000	14.00	
HARVEST AIDS	acre	3.04	1.0000	3.04	
FERTILIZERS	acre	33.53	1.0000	33.53	
FUNGICIDES	acre	7.60	1.0000	7.60	
HERBICIDES	acre	70.17	1.0000	70.17	
INSECTICIDES	acre	4.81	1.0000	4.81	
SEED/PLANTS	acre	60.00	1.0000	60.00	
ADJUVANTS	acre	1.98	1.0000	1.98	
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	
HAULING	acre	11.61	1.0000	11.61	
CUSTOM LIME	acre	15.80	1.0000	15.80	
CROP CONSULTANT	acre	6.50	1.0000	6.50	
SOIL TEST	acre	3.33	1.0000	3.33	
HAND LABOR	hour	9.06	0.1051	0.96	
OPERATOR LABOR	hour	14.68	0.3789	5.54	
UNALLOCATED LABOR	hour	14.66	0.3410	5.00	
DIESEL FUEL	gal	1.53	4.5990	7.04	
REPAIR & MAINTENANCE	acre	11.12	1.0000	11.12	
INTEREST ON OP. CAP.	acre	6.02	1.0000	6.02	
TOTAL DIRECT EXPENSES			•	275.55	
RETURNS ABOVE DIRECT EXE	PENSES			140.26	
TOTAL FIXED EXPENSES				37.87	
TOTAL SPECIFIED EXPENSES	3		-	313.42	
RETURNS ABOVE TOTAL SPEC	CIFIED	EXPENSES		102.39	

Table 5.C Estimated resource use for field operations, per acre Soybeans, full-season, Enlist E3, April planted, 12R30" Non-Delta Area, Mississippi, 2021

OPERATION/	SIZE/	POWER UNIT	PERF	TIMES		INPUT		POWER	ALLOC	UNALL
OPERATING INPUT	UNIT	SIZE	RATE	OVER	MTH	AMOUNT	IMPLEMENT	UNIT	LABOR	LABOR
								ho	urs	
Soil Test	acre			0.33	Oct	0.3330				
Lime (Spread)	ton			0.33	Oct	0.3330				
Custom Apply Fert Phosphorus (46% P205)	acre cwt			1.00	Oct	1.0000				
Potash (60% K20)	cwt	MEETE OOF	0 0 0 1	1 00	0 - 1	1.0000	0.06	0 00	0.06	0 05
Disk Harrow	32'	MFWD 225	0.061	1.00	Oct		0.06	0.06	0.06	0.05
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	Oct	1 0000	0.04	0.04	0.04	0.04
App by Air (5 gal) Glyphosate 3lbs a.e	appl oz			1.00	Mar	1.0000 32.0000				
2,4-D Amine 4	pt					2.0000				
Plant - Folding	12R-30	MFWD 225	0.062	1.00	Apr		0.06	0.06	0.12	0.05
Soybean Enlist E3	lb					50.0000				
CruiserMaxx Vibrance	ΟZ					1.6000				
Boundary	pt					2.0000				
Gramoxone SL 2.0	ΟZ					48.0000				
Surfactant	pt					0.4000				
Spray (Broadcast)	60'	MFWD 225	0.028	1.00	May		0.02	0.02	0.04	0.02
Liberty 280	ΟZ					29.0000				
Dual Magnum	pt					1.0000				
Soybeans Consultant	acre			1.00	May	1.0000				
Spray (Broadcast)	60'	MFWD 225	0.028	1.00	May		0.02	0.02	0.04	0.02
Glyphosate 31bs a.e	ΟZ					32.0000				
Spray (Broadcast)	60'	MFWD 225	0.028	1.00	Aug		0.02	0.02	0.04	0.02
Acephate 90SP	lb					0.7500				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Gramoxone SL	OZ					16.0000				
Surfactant	pt					0.2000				
Header -Soybean	25' Flex	265 hp	0.102	1.00	Sep		0.10	0.10	0.10	0.09
Haul Soybeans	bu	-			-	43.0000				
Grain Cart Soybean	700 bu	MFWD 225	0.021	1.00	Sep		0.02	0.02	0.02	0.01
TOTALS							0.37	0.37	0.48	0.34

Table 5.D Estimated costs for field operations, per acre Soybeans, full-season, Enlist E3, April planted, 12R30" Non-Delta Area, Mississippi, 2021

OPERATION/	SIZE/			]	DIRECT CO	OST			FIXED	TOTAL
OPERATING INPUT	UNIT	OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	COST	COST
					(	dollars-				
Soil Test	acre	3.33					0.13	3.46		3.46
Lime (Spread)	ton	15.80					0.63	16.43		16.43
Custom Apply Fert	acre	7.50					0.30	7.80		7.80
Phosphorus (46% P2O5)	cwt	11.42					0.46	11.88		11.88
Potash (60% K20)	cwt	22.11					0.88	22.99		22.99
Disk Harrow	32'		1.09	1.50	1.71		0.17	4.47	4.85	9.32
Field Cultivate Fld	32 <b>'</b>		0.83	0.85	1.30		0.12	3.10	4.14	7.24
App by Air ( 5 gal)	appl	7.00					0.16	7.16		7.16
Glyphosate 31bs a.e	OZ	4.16					0.10	4.26		4.26
2,4-D Amine 4	pt	4.50					0.11	4.61		4.61
Plant - Folding	12R-30		1.11	2.15	2.32		0.11	5.69	5.90	11.59
Soybean Enlist E3	lb	60.00					1.20	61.20		61.20
CruiserMaxx Vibrance	e oz	7.60					0.15	7.75		7.75
Boundary	pt	22.14					0.44	22.58		22.58
Gramoxone SL 2.0	oz	9.12					0.18	9.30		9.30
Surfactant	pt	1.32					0.03	1.35		1.35
Spray (Broadcast)	60 <b>'</b>		0.50	0.38	0.91		0.03	1.82	1.45	3.27
Liberty 280	OZ	12.76					0.21	12.97		12.97
Dual Magnum	pt	13.33					0.22	13.55		13.55
Soybeans Consultant	acre	6.50					0.11	6.61		6.61
Spray (Broadcast)	60'		0.50	0.38	0.91		0.03	1.82	1.45	3.27
Glyphosate 31bs a.e	OZ	4.16					0.07	4.23		4.23
Spray (Broadcast)	60'		0.50	0.38	0.91		0.01	1.80	1.45	3.25
Acephate 90SP	lb	4.81					0.03	4.84		4.84
App by Air ( 5 gal)	appl	7.00					0.05	7.05		7.05
Gramoxone SL	OZ	3.04					0.02	3.06		3.06
Surfactant	pt	0.66						0.66		0.66
Header -Soybean	25' Flex		2.13	5.08	2.85		0.03	10.09	17.27	27.36
Haul Soybeans	bu	11.61					0.04	11.65		11.65
Grain Cart Soybean	700 bu		0.38	0.40	0.59			1.37	1.36	2.73
TOTALS		239.87	7.04	11.12	11.50	0.00	6.02	275.55	37.87	313.42

Table 5.E Estimated monthly income and expense flows per acre Soybeans, full-season, Enlist E3, April planted, 12R30" Non-Delta Area, Mississippi, 2021

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep
						doll	ars					
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	415.81
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00	7.00	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.04	0.00
FERTILIZERS	33.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	7.60	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	8.66	31.26	30.25	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.81	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	60.00	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.66	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.61
CUSTOM LIME	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	3.01	0.00	0.00	0.00	0.00	0.00	2.32	1.82	0.00	0.00	0.91	3.44
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	1.92	0.00	0.00	0.00	0.00	0.00	1.11	1.00	0.00	0.00	0.50	2.51
REPAIR & MAINTENANCE	2.35	0.00	0.00	0.00	0.00	0.00	2.15	0.76	0.00	0.00	0.38	5.48
INTEREST ON OP. CAP.	2.69	0.00	0.00	0.00	0.00	0.37	2.11	0.67	0.00	0.00	0.11	0.07
TOTAL DIRECT EXPENSES	70.13	0.00	0.00	0.00	0.00	16.03	107.87	41.00	0.00	0.00	17.41	23.11
NET INCOME	-70.13	0.00	0.00	0.00	0.00	-16.03	-107.87	-41.00	0.00	0.00	-17.41	392.70
NET INCOME TO DATE	-70.13	-70.13	-70.13	-70.13	-70.13	-86.16	-194.03	-235.03	-235.03	-235.03	-252.44	140.26

Table 5.F Estimated returns for various price/yield combinations, per acre Soybeans, full-season, Enlist E3, April planted, 12R30"
Non-Delta Area, Mississippi, 2021

		_						-PERCENT-					
PRODUCT			75	80	85	90	95 BB	100	105 CE	110	115	120	125
Soybeans	3		7.25	7.73	8.21	8.70		9.67	10.15	10.63	11.12	11.60	12.08
PERCENT	YIELD	UNIT -					d	ollars					
50	21.50	bu	-113 -151	-103 -141	-93 -130	-82 -120	-72 -110	-61 -99	-51 -89	-41 -78	-30 -68	-20 -58	-9 -47
60	25.80	bu	-83 -121	-71 -109	-58 -96	-46 -84	-33 -71	-21 -59	-8 -46	3 -34	16 -21	28 -9	40
70	30.10	bu	-53 -91	-39 -77	-24 -62	-10 -47	4 -33	19 -18	33 -4	48 10	62 24	77 39	91 53
80	34.40	bu	-23 -61	-7 -44	9 -28	26 -11	42 4	59 21	76 38	92 54	109 71	125 88	142 104
90	38.70	bu	6 -31	24 -12	43 5	62 24	81 43	99 61	118 80	137 99	155 118	174 136	193 155
100	43.00	bu	36 -1	57 19	77 40	98 60	119 81	140 102	161 123	181 143	202 164	223 185	244 206
110	47.30	bu	66 28	89 51	112 74	134 97	157 119	180 142	203 165	226 188	249 211	272 234	295 257
120	51.60	bu	96 58	121 83	146 108	171 133	196 158	221 183	246 208	270 233	295 258	320 283	345 307
130	55.90	bu	126 88	153 115	180 142	207 169	234 196	261 223	288 250	315 277	342 304	369 331	396 358
140	60.20	bu	156 118	185 147	214 176	243 205	272 234	301 264	331 293	360 322	389 351	418 380	447 409
150	64.50	bu	186 148	217 179	248 210	279 242	311 273	342 304	373 335	404 366	435 398	467 429	498 460

The top number in each cell is Returns Above Direct Expenses.

The bottom number in each cell is Returns Above Total Specified Expenses.

Note: Cost of production estimates are based on 2020 input prices.

Only the product listed has been varied to calculate net returns.

Table 6.A Estimated costs per acre Soybeans, full-season, Enlist E3, May planted, 12R30" Non-Delta Area, Mississippi, 2021

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY App by Air ( 5 gal)	appl	7.00	1.0000	7.00	
HARVEST AIDS		0 10	16 0000	2.04	
Gramoxone SL FERTILIZERS	ΟZ	0.19	16.0000	3.04	
Phosphorus (46% P205)	cwt	17.31	0.6600	11.42	
Potash (60% K20)	cwt	22.11	1.0000	22.11	
FUNGICIDES CruiserMaxx Vibrance	OZ	4.75	1.6000	7.60	
HERBICIDES					<del></del>
Glyphosate 31bs a.e Select Max	OZ n+	0.13 12.74	64.0000 1.0000	8.32 12.74	
Fierce	pt oz	7.40	3.5000	25.90	
Gramoxone SL 2.0	OZ	0.19	96.0000	18.24	
Boundary	pt	11.07	2.0000	22.14	
Liberty 280	ΟZ	0.44	29.0000	12.76	
Dual Magnum	pt	13.33	1.0000	13.33	
INSECTICIDES Dimilin 2L	OZ	2.16	1.0000	2.16	
Baythroid XL	OZ	2.38	1.0650	2.53	
SEED/PLANTS	0.2	2.00	1.0000	2.00	
Soybean Enlist E3	lb	1.20	50.0000	60.00	
ADJUVANTS		2 20	1 4500	4 70	
Surfactant CUSTOM FERTILIZE	pt	3.30	1.4500	4.79	
Custom Apply Fert	acre	7.50	1.0000	7.50	
HAULING					
Haul Soybeans	bu	0.27	40.0000	10.80	
CUSTOM LIME Lime (Spread)	ton	47.45	0.3330	15.80	
CROP CONSULTANT	COII	47.45	0.3330	13.00	
Soybeans Consultant	acre	6.50	1.0000	6.50	
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	
OPERATOR LABOR Tractors	hour	14.68	0.4189	6.13	
Harvesters	hour	14.68	0.1021	1.50	<del></del>
HAND LABOR	11041	11.00	0.1021	1.00	
Implements	hour	9.06	0.1382	1.25	
UNALLOCATED LABOR	hour	14.67	0.4689	6.88	
DIESEL FUEL Tractors	gal	1.53	4.8515	7.43	
Harvesters	gal	1.53	1.3935	2.13	<del></del>
REPAIR & MAINTENANCE	5				
Implements	acre	6.41	1.0000	6.41	
Tractors	acre	3.06	1.0000	3.06	
Harvesters INTEREST ON OP. CAP.	acre acre	4.16 5.68	1.0000	4.16 5.68	
INIERESI ON OF. CAF.	acre	3.00	1.0000		
TOTAL DIRECT EXPENSES				322.64	
FIXED EXPENSES					
Implements	acre	12.70	1.0000	12.70	
Tractors Harvesters	acre	18.58 15.93	1.0000	18.58 15.93	
Haivesters	acre	10.93	1.0000	10.93	
TOTAL FIXED EXPENSES				47.21	
TOTAL SPECIFIED EXPENSES				369.85	

Table 6.B Summary of estimated costs and returns per acre Soybeans, full-season, Enlist E3, May planted, 12R30" Non-Delta Area, Mississippi, 2021

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	9.67	40.0000	386.80	
TOTAL INCOME			-	386.80	
DIRECT EXPENSES					
CUSTOM SPRAY	acre	7.00	1.0000	7.00	
HARVEST AIDS	acre	3.04	1.0000	3.04	
FERTILIZERS	acre	33.53	1.0000	33.53	
FUNGICIDES	acre	7.60	1.0000		
HERBICIDES	acre	113.43	1.0000	113.43	
INSECTICIDES	acre	4.69	1.0000	4.69	
SEED/PLANTS	acre	60.00	1.0000	60.00	
ADJUVANTS	acre	4.79	1.0000	4.79	
CUSTOM FERTILIZE	acre	7.50	1.0000		
HAULING	acre	10.80	1.0000	10.80	
CUSTOM LIME	acre	15.80	1.0000	15.80	
CROP CONSULTANT	acre	6.50	1.0000	6.50	
SOIL TEST	acre	3.33	1.0000	3.33	
HAND LABOR	hour	9.06	0.1382	1.25	
OPERATOR LABOR	hour	14.68	0.5210	7.63	
UNALLOCATED LABOR	hour	14.67	0.4689	6.88	
DIESEL FUEL	gal	1.53	6.2451	9.56	
REPAIR & MAINTENANCE	acre	13.63	1.0000	13.63	
INTEREST ON OP. CAP.	acre	5.68	1.0000	5.68	
TOTAL DIRECT EXPENSES			-	322.64	
RETURNS ABOVE DIRECT EXE	PENSES			64.16	
TOTAL FIXED EXPENSES				47.21	
TOTAL SPECIFIED EXPENSES	5		-	369.85	
RETURNS ABOVE TOTAL SPEC	CIFIED	EXPENSES		16.95	

Table 6.C Estimated resource use for field operations, per acre Soybeans, full-season, Enlist E3, May planted, 12R30" Non-Delta Area, Mississippi, 2021

OPERATION/	SIZE/	POWER UNIT		TIMES		INPUT		POWER	ALLOC	UNALL
OPERATING INPUT	UNIT	SIZE	RATE	OVER	MTH	AMOUNT	IMPLEMENT	UNIT	LABOR	LABOR
								ho	urs	
Soil Test	acre			0.33	Oct	0.3330				
Lime (Spread)	ton			0.33	Oct	0.3330				
Disk Harrow	32'	MFWD 225	0.061	1.00	Oct		0.06	0.06	0.06	0.05
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	Oct		0.04	0.04	0.04	0.04
Bed/Lister-Roll-Fo	12R-30	MFWD 225	0.080	1.00	Oct		0.08	0.08	0.08	0.07
Spray (Broadcast)	60'	MFWD 225	0.028	1.00	Feb		0.02	0.02	0.04	0.02
Glyphosate 31bs a.e	ΟZ					32.0000				
Select Max	pt					1.0000				
Surfactant	pt					0.4000				
Custom Apply Fert	acre			1.00	Apr	1.0000				
Phosphorus (46% P205)					1	0.6600				
Potash (60% K20)	cwt					1.0000				
Spray (Broadcast)	60 <b>'</b>	MFWD 225	0.028	1.00	Apr		0.02	0.02	0.04	0.02
Fierce	ΟZ				1	3.5000				
Gramoxone SL 2.0	ΟZ					48.0000				
Surfactant	pt					0.4000				
Sovbeans Consultant	acre			1.00	Mav	1.0000				
Plant & Pre-Folding	12R-30	MFWD 225	0.067	1.00	Mav		0.06	0.06	0.13	0.06
Soybean Enlist E3	lb				- 2	50.0000				
CruiserMaxx Vibrance	e oz					1.6000				
Boundary	pt					2.0000				
Gramoxone SL 2.0	OZ					48.0000				
Surfactant	pt					0.4000				
Spray (Broadcast)	60 <sup>†</sup>	MFWD 225	0.028	1.00	May		0.02	0.02	0.04	0.02
Liberty 280	ΟZ				_	29.0000				
Dual Magnum	pt					1.0000				
Spray (Broadcast)	60 <sup>†</sup>	MFWD 225	0.028	1.00	Jun		0.02	0.02	0.04	0.02
Glyphosate 31bs a.e	ΟZ					32.0000				
Spray (Broadcast)	60'	MFWD 225	0.028	0.50	Jul		0.01	0.01	0.02	0.01
Dimilin 2L	ΟZ					1.0000				
Surfactant	pt					0.0500				
Spray (Broadcast)	60 <sup>†</sup>	MFWD 225	0.028	0.50	Aug		0.01	0.01	0.02	0.01
Baythroid XL	ΟZ				_	1.0650				
App by Air (5 gal)	appl			1.00	Sep	1.0000				
Gramoxone SL	OZ				-	16.0000				
Surfactant	pt					0.2000				
Header -Soybean	25' Flex	265 hp	0.102	1.00	Oct		0.10	0.10	0.10	0.09
Haul Soybeans	bu	-				40.0000				
Grain Cart Soybean	700 bu	MFWD 225	0.021	1.00	Oct		0.02	0.02	0.02	0.01
							0.52	0.52	0.65	0.46

Table 6.D Estimated costs for field operations, per acre Soybeans, full-season, Enlist E3, May planted, 12R30" Non-Delta Area, Mississippi, 2021

OPERATION/	SIZE/				DIRECT C	OST			FIXED	TOTAL
OPERATING INPUT	UNIT	OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	COST	COST
						dollars-				
Soil Test	acre	3.33					0.01	3.34		3.34
Lime (Spread)	ton	15.80					0.05	15.85		15.85
Disk Harrow	32'		1.09	1.50	1.71		0.01	4.31	4.85	9.16
Field Cultivate Fld	32'		0.83	0.85	1.30		0.01	2.99	4.14	7.13
Bed/Lister-Roll-Fo	12R-30		1.43	1.35	2.26		0.02	5.06	5.54	10.60
Spray (Broadcast)	60'		0.50	0.38	0.91		0.05	1.84	1.45	3.29
Glyphosate 31bs a.e	OZ	4.16					0.12	4.28		4.28
Select Max	pt	12.74					0.38	13.12		13.12
Surfactant	pt	1.32					0.04	1.36		1.36
Custom Apply Fert	acre	7.50					0.18	7.68		7.68
Phosphorus (46% P205)		11.42					0.27	11.69		11.69
Potash (60% K20)	cwt	22.11					0.52	22.63		22.63
Spray (Broadcast)	60'		0.50	0.38	0.91		0.04	1.83	1.45	3.28
Fierce	OZ	25.90					0.60	26.50	_,_,	26.50
Gramoxone SL 2.0	OZ	9.12					0.21	9.33		9.33
Surfactant	pt	1.32					0.03	1.35		1.35
Soybeans Consultant	acre	6.50					0.13	6.63		6.63
Plant & Pre-Folding	12R-30		1.20	2.55	2.49		0.12	6.36	6.79	13.15
Sovbean Enlist E3	lb	60.00					1.20	61.20		61.20
CruiserMaxx Vibrance		7.60					0.15	7.75		7.75
Boundary	pt	22.14					0.44	22.58		22.58
Gramoxone SL 2.0	OZ	9.12					0.18	9.30		9.30
Surfactant	pt	1.32					0.03	1.35		1.35
Spray (Broadcast)	60'		0.50	0.38	0.91		0.04	1.83	1.45	3.28
Liberty 280	OZ	12.76					0.26	13.02	_,_,	13.02
Dual Magnum	pt	13.33					0.27	13.60		13.60
Spray (Broadcast)	60'	10.00	0.50	0.38	0.91		0.03	1.82	1.45	3.27
Glyphosate 31bs a.e	OZ	4.16	0.00	0.00	0.31		0.07	4.23	1.10	4.23
Spray (Broadcast)	60'	1.10	0.25	0.19	0.46		0.01	0.91	0.73	1.64
Dimilin 2L	OZ	2.16	0.20	0.13	0.10		0.03	2.19	0.70	2.19
Surfactant	pt	0.17					0.03	0.17		0.17
Spray (Broadcast)	60'	0.17	0.25	0.19	0.46		0.01	0.91	0.73	1.64
Baythroid XL	OZ	2.53	0.23	0.15	0.40		0.03	2.56	0.75	2.56
App by Air (5 gal)	appl	7.00					0.05	7.05		7.05
Gramoxone SL	OZ	3.04					0.02	3.06		3.06
Surfactant	pt	0.66					0.02	0.66		0.66
Header -Soybean	25' Flex	0.00	2.13	5.08	2.85		0.03	10.09	17.27	27.36
Haul Soybeans	bu	10.80	2.10	3.00	2.00		0.03	10.84	11.41	10.84
Grain Cart Soybean	700 bu	10.00	0.38	0.40	0.59		0.01	1.37	1.36	2.73
TOTALS		278.01	9.56	13.63	15.76	0.00	5.68	322.64	47.21	369.85

Table 6.E Estimated monthly income and expense flows per acre Soybeans, full-season, Enlist E3, May planted, 12R30" Non-Delta Area, Mississippi, 2021

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
<del></del>						doll	ars					
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	386.80
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.00	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.04	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	33.53	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	7.60	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	16.90	0.00	35.02	57.35	4.16	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.16	2.53	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	60.00	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	1.32	0.00	1.32	1.32	0.00	0.17	0.00	0.66	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	7.50	0.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.80
CUSTOM LIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.80
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00	0.00
SOIL TEST	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.33
LABOR	0.00	0.00	0.00	0.91	0.00	0.91	3.40	0.91	0.46	0.46	0.00	8.71
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	0.00	0.50	0.00	0.50	1.70	0.50	0.25	0.25	0.00	5.86
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.38	0.00	0.38	2.93	0.38	0.19	0.19	0.00	9.18
INTEREST ON OP. CAP.	0.00	0.00	0.00	0.59	0.00	1.85	2.82	0.10	0.04	0.04	0.07	0.17
TOTAL DIRECT EXPENSES	0.00	0.00	0.00	20.60	0.00	81.01	143.62	6.05	3.27	3.47	10.77	53.85
NET INCOME	0.00	0.00	0.00	-20.60	0.00	-81.01	-143.62	-6.05	-3.27	-3.47	-10.77	332.95
NET INCOME TO DATE	0.00	0.00	0.00	-20.60	-20.60	-101.61	-245.23	-251.28	-254.55	-258.02	-268.79	64.16

<sup>\*</sup> Lease costs are based on hourly usage costs.

Table 6.F Estimated returns for various price/yield combinations, per acre Soybeans, full-season, Enlist E3, May planted, 12R30" Non-Delta Area, Mississippi, 2021

		-						-PERCENT-					
PRODUCT			75	80	85	90	95	100	105 CE	110	115	120	125
Soybeans	3		7.25	7.73	8.21	8.70	9.18	9.67	10.15	10.63	11.12	11.60	12.08
PERCENT	YIELD	UNIT -					d	ollars					
50	20.00	bu	-172 -219	-162 -209	-152 -200	-143 -190	-133 -180	-123 -171	-114 -161	-104 -151	-94 -142	-85 -132	-75 -122
60	24.00	bu	-144 -191	-132 -179	-121 -168	-109 -156	-97 -145	-86 -133	-74 -121	-63 -110	-51 -98	-39 -87	-28 -75
70	28.00	bu	-116 -163	-102 -149	-89 -136	-75 -122	-62 -109	-48 -95	-35 -82	-21 -68	-8 -55	5 -41	19 -28
80	32.00	bu	-88 -135	-72 -120	-57 -104	-41 -89	-26 -73	-11 -58	4 -42	19 -27	35 -11	50 3	66 19
90	36.00	bu	-60 -107	-43 -90	-25 -72	-8 -55	9 -38	26 -20	43 -3	61 14	78 31	96 48	113 66
100	40.00	bu	-32 -79	-13 -60	6 -41	25 <b>-</b> 21	44 -2	64 16	83 36	102 55	122 74	141 94	160 113
110	44.00	bu	-4 -51	16 -30	37 -9	59 11	80 33	101 54	123 75	144 97	165 118	186 139	208 160
120	48.00	bu	23 -23	46 -0	69 22	92 45	116 68	139 92	162 115	185 138	208 161	232 184	255 208
130	52.00	bu	51 4	76 29	101 54	126 79	151 104	176 129	202 154	227 180	252 205	277 230	302 255
140	56.00	bu	79 31	106 59	133 86	160 113	187 140	214 167	241 194	268 221	295 248	322 275	349 302
150	60.00	bu	107 59	136 88	165 117	194 146	223 175	252 204	281 233	310 262	339 291	368 320	397 349

The top number in each cell is Returns Above Direct Expenses.

The bottom number in each cell is Returns Above Total Specified Expenses.

Note: Cost of production estimates are based on 2020 input prices.

Only the product listed has been varied to calculate net returns.

Table 7.A Estimated costs per acre Soybeans, double crop after wheat, Enlist E3, 12R30" Non-irrigated, All Areas, Mississippi, 2021

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES CUSTOM SPRAY					
App by Air (5 gal)	appl	7.00	3.0000	21.00	
FERTILIZERS		17 21	0 0700	1 F 0 C	
Phosphorus (46% P205) Potash (60% K20)	cwt	17.31 22.11	0.8700 1.3300	15.06 29.41	
FUNGICIDES					
CruiserMaxx Vibrance HERBICIDES	ΟZ	4.75	1.6000	7.60	
Boundary	pt	11.07	2.0000	22.14	
Gramoxone SL 2.0	ΟZ	0.19	48.0000	9.12	
Liberty 280	ΟZ	0.44	29.0000 1.0000	12.76 13.33	
Dual Magnum INSECTICIDES	pt	13.33	1.0000	13.33	<del></del>
Acephate 90SP	lb	6.42	0.7500	4.81	
Prevathon	OZ	1.05	14.0000	14.70	
Bifenthrin IncidentalPestTrt \$8	oz acre	0.94 8.00	6.4000 1.0000	6.02 8.00	
SEED/PLANTS					
Soybean Enlist E3 ADJUVANTS	lb	1.20	50.0000	60.00	
Surfactant	pt	3.30	0.5000	1.65	
CUSTOM FERTILIZE Custom Apply Fert	acre	7.50	1.0000	7.50	
HAULING	acre	7.50	1.0000	7.50	
Haul Soybeans CUSTOM LIME	bu	0.27	25.0000	6.75	
Lime (Spread)	ton	47.45	0.3330	15.80	
CROP CONSULTANT Soybeans Consultant	acre	6.50	1.0000	6.50	
INOCULANT	acre				
Inoculant -Soybean SOIL TEST	acre	1.55	1.0000	1.55	
Soil Test	acre	10.00	0.3330	3.33	
OPERATOR LABOR Tractors	hour	14.68	0.1171	1.71	
Harvesters	hour	14.68	0.1021	1.50	
HAND LABOR Implements	hour	9.06	0.0817	0.74	
UNALLOCATED LABOR	hour	14.68	0.1886	2.77	
DIESEL FUEL Tractors	~~ 1	1 50	1 2567	2 00	
Harvesters	gal gal	1.53 1.53	1.3567 1.3935	2.08 2.13	
REPAIR & MAINTENANCE	5				
Implements Tractors	acre	3.40 0.85	1.0000	3.40 0.85	
Harvesters	acre acre	4.16	1.0000	4.16	
INTEREST ON OP. CAP.	acre	5.69	1.0000	5.69	
TOTAL DIRECT EXPENSES				292.06	
FIXED EXPENSES					
Implements	acre	5.75	1.0000	5.75	
Tractors	acre	5.19	1.0000	5.19	
Harvesters	acre	15.93	1.0000	15.93	
TOTAL FIXED EXPENSES				26.87	
TOTAL SPECIFIED EXPENSES				318.93	

Table 7.B Summary of estimated costs and returns per acre Soybeans, double crop after wheat, Enlist E3, 12R30" Non-irrigated, All Areas, Mississippi, 2021

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	9.67	25.0000	241.75	
TOTAL INCOME				241.75	
DIRECT EXPENSES					
CUSTOM SPRAY	acre	21.00	1.0000	21.00	
FERTILIZERS	acre	44.47	1.0000	44.47	
FUNGICIDES	acre	7.60	1.0000	7.60	
HERBICIDES	acre	57.35	1.0000	57.35	
INSECTICIDES	acre	33.53	1.0000	33.53	
SEED/PLANTS	acre	60.00	1.0000	60.00	
ADJUVANTS	acre	1.65	1.0000	1.65	
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	
HAULING	acre	6.75	1.0000	6.75	
CUSTOM LIME	acre	15.80	1.0000	15.80	
CROP CONSULTANT	acre	6.50	1.0000	6.50	
INOCULANT	acre	1.55	1.0000	1.55	
SOIL TEST	acre	3.33	1.0000	3.33	
HAND LABOR	hour	9.06	0.0817	0.74	
OPERATOR LABOR	hour	14.68	0.2193	3.21	
UNALLOCATED LABOR	hour	14.68	0.1886	2.77	
DIESEL FUEL	gal	1.53	2.7503	4.21	
REPAIR & MAINTENANCE	acre	8.41	1.0000	8.41	
INTEREST ON OP. CAP.	acre	5.69	1.0000	5.69	
TOTAL DIRECT EXPENSES			•	292.06	
RETURNS ABOVE DIRECT EXP	ENSES			-50.31	
TOTAL FIXED EXPENSES				26.87	
TOTAL SPECIFIED EXPENSES	}		-	318.93	
RETURNS ABOVE TOTAL SPEC	IFIED E	XPENSES		-77.18	

Table 7.C Estimated resource use for field operations, per acre Soybeans, double crop after wheat, Enlist E3, 12R30" Non-irrigated, All Areas, Mississippi, 2021

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT	PERF RATE	TIMES OVER	МТН	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
								hoi	urs	
Soil Test	acre			0.33	Nov	0.3330				
Lime (Spread)	ton			0.33	Nov	0.3330				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Phosphorus (46% P2O5)	cwt					0.8700				
Potash (60% K20)	cwt					1.3300				
Soybeans Consultant	acre			1.00	Mav	1.0000				
Plant & Pre-Folding	12R-30	MFWD 225	0.067	1.00	Jun		0.06	0.06	0.13	0.05
Sovbean Enlist E3	lb					50.0000				
CruiserMaxx Vibrance						1.6000				
Inoculant -Soybean	acre					1.0000				
Boundary	pt					2.0000				
Gramoxone SL 2.0	OZ					48.0000				
Surfactant	pt					0.4000				
Spray (Broadcast)	60'	MFWD 225	0.028	1.00	Jul		0.02	0.02	0.04	0.02
Liberty 280	OZ					29.0000	***			
Dual Magnum	pt					1.0000				
App by Air (5 gal)	appl			1.00	Αιια	1.0000				
Acephate 90SP	lb			1.00	1149	0.7500				
App by Air (5 gal)	appl			1.00	Αιισ	1.0000				
Prevathon	OZ			1.00	1149	14.0000				
Surfactant	pt					0.1000				
Bifenthrin	OZ					6.4000				
Incidental Pest	02			1.00	Sep	0.1000				
App by Air (5 gal)	appl			1.00	оср	1.0000				
IncidentalPestTrt \$8						1.0000				
Header -Soybean	25' Flex	265 hp	0 102	1.00	Oct	1.0000	0.10	0.10	0.10	0.08
Haul Soybeans	bu	200 HP	0.102	1.00	000	25.0000	0.10	0.10	0.10	0.00
Grain Cart Soybean	700 bu	MFWD 225	0.021	1.00	Oct	23.0000	0.02	0.02	0.02	0.01
TOTALS							0.21	0.21	0.30	0.18

OPERATION/	SIZE/			]	DIRECT CO	OST			FIXED	TOTAL
OPERATING INPUT	UNIT	OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	COST	COST
						dollars-				
Soil Test	acre	3.33					0.13	3.46		3.46
Lime (Spread)	ton	15.80					0.63	16.43		16.43
Custom Apply Fert	acre	7.50					0.30	7.80		7.80
Phosphorus (46% P205)	cwt	15.06					0.60	15.66		15.66
Potash (60% K20)	cwt	29.41					1.18	30.59		30.59
Soybeans Consultant	acre	6.50					0.13	6.63		6.63
Plant & Pre-Folding	12R-30		1.20	2.55	2.45		0.10	6.30	6.79	13.09
Soybean Enlist E3	lb	60.00					1.00	61.00		61.00
CruiserMaxx Vibrance	OZ	7.60					0.13	7.73		7.73
Inoculant -Soybean	acre	1.55					0.03	1.58		1.58
Boundary	pt	22.14					0.37	22.51		22.51
Gramoxone SL 2.0	ΟZ	9.12					0.15	9.27		9.27
Surfactant	pt	1.32					0.02	1.34		1.34
Spray (Broadcast)	60'		0.50	0.38	0.90		0.02	1.80	1.45	3.25
Liberty 280	OZ	12.76					0.17	12.93		12.93
Dual Magnum	pt	13.33					0.18	13.51		13.51
App by Air ( 5 gal)	appl	7.00					0.07	7.07		7.07
Acephate 90SP	lb	4.81					0.05	4.86		4.86
App by Air ( 5 gal)	appl	7.00					0.07	7.07		7.07
Prevathon	OZ	14.70					0.15	14.85		14.85
Surfactant	pt	0.33						0.33		0.33
Bifenthrin	OZ	6.02					0.06	6.08		6.08
Incidental Pest										
App by Air ( 5 gal)	appl	7.00					0.05	7.05		7.05
IncidentalPestTrt \$8	acre	8.00					0.05	8.05		8.05
Header -Soybean	25' Flex		2.13	5.08	2.79		0.03	10.03	17.27	27.30
Haul Soybeans	bu	6.75					0.02	6.77		6.77
Grain Cart Soybean	700 bu		0.38	0.40	0.58			1.36	1.36	2.72
TOTALS		267.03	4.21	8.41	6.72	0.00	5.69	292.06	26.87	318.93

Table 7.E Estimated monthly income and expense flows per acre Soybeans, double crop after wheat, Enlist E3, 12R30" Non-irrigated, All Areas, Mississippi, 2021

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
						dolla	ars					
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	241.75
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.00	7.00	0.00
FERTILIZERS	44.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.60	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31.26	26.09	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.53	8.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	60.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.32	0.00	0.33	0.00	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.75
CUSTOM LIME	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.55	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.45	0.90	0.00	0.00	3.37
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.20	0.50	0.00	0.00	2.51
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.55	0.38	0.00	0.00	5.48
INTEREST ON OP. CAP.	2.84	0.00	0.00	0.00	0.00	0.00	0.13	1.80	0.37	0.40	0.10	0.05
TOTAL DIRECT EXPENSES	73.94	0.00	0.00	0.00	0.00	0.00	6.63	109.73	28.24	40.26	15.10	18.16
NET INCOME	-73.94	0.00	0.00	0.00	0.00	0.00	-6.63	-109.73	-28.24	-40.26	-15.10	223.59
NET INCOME TO DATE	-73.94	-73.94	-73.94	-73.94	-73.94	-73.94	-80.57	-190.30	-218.54	-258.80	-273.90	-50.31

Table 7.F Estimated returns for various price/yield combinations, per acre Soybeans, double crop after wheat, Enlist E3, 12R30"
Non-irrigated, All Areas, Mississippi, 2021

		_						-PERCENT-					
PRODUCT			75	80	85	90	95	100	105 CE	110	115	120	125
Soybeans	3		7.25	7.73	8.21	8.70		9.67	10.15	10.63	11.12	11.60	12.08
PERCENT	YIELD	UNIT -					d	ollars					
50	12.50	bu	-198	-191	-185	-179	-173	-167	-161	-155	-149	-143	-137
			-224	-218	-212	-206	-200	-194	-188	-182	-176	-170	-164
60	15.00	bu	-180	-173	-166	-158	-151	-144	-137	-129	-122	-115	-108
			-207	-200	-192	-185	-178	-171	-163	-156	-149	-142	-134
70	17.50	bu	-163	-154	-146	-137	-129	-120	-112	-103	-95	-86	-78
			-189	-181	-173	-164	-156	-147	-139	-130	-122	-113	-105
80	20.00	bu	-145	-135	-126	-116	-106	-97	-87	-77	-68	-58	-48
			-172	-162	-153	-143	-133	-124	-114	-104	-95	-85	<del>-</del> 75
90	22.50	bu	-128 -155	-117 -144	-106 -133	-95 -122	-84 -111	-73 -100	-62 -89	-52 -78	-41 -68	-30 -57	-19 -46
			-133	-144	-133	-122	-111	-100		- / 0	-00	-57	-40
100	25.00	bu	-110	-98	-86	-74	-62 -89	-50 -77	-38	-26	-14	-1	10
			-137	-125	-113	-101	-89	- / /	-65	-53	-40	-28	-16
110	27.50	bu	-93	-79	-66	-53	-40	-26	-13	-0	13	26	39
			-120	-106	-93	-80	-66	-53	-40	-27	-13	-0	12
120	30.00	bu	-75	-61	-46	-32	-17	-3	11	25	40	54	69
			-102	-88	-73	-59	-44	-30	-15	-1	13	27	42
130	32.50	bu	-58	-42	-26	-11	4	20	35	51	67	83	98
			-85	-69	-53	-38	-22	-6	9	24	40	56	71
140	35.00	bu	-40	-24	-7	9	26	43	60	77	94	111	128
			-67	-50	-33	-17	-0	16	33	50	67	84	101
150	37.50	bu	-23	-5	12	30	49	67	85	103	121	139	157
			-50	-32	-14	4	22	40	58	76	94	112	130

The top number in each cell is Returns Above Direct Expenses.

The bottom number in each cell is Returns Above Total Specified Expenses.

Note: Cost of production estimates are based on 2020 input prices.

Only the product listed has been varied to calculate net returns.

Table 8.A Estimated costs per acre Soybeans, full-season, RR2X, stale seedbed, 12R 30" Non-irrigated, Delta Area, Mississippi, 2021

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES CUSTOM SPRAY					
App by Air ( 5 gal) HARVEST AIDS	appl	7.00	4.0000	28.00	
Gramoxone SL Sodium Chlorate 5L	oz gal	0.19 6.77	16.0000 0.6000	3.04 4.06	
FERTILIZERS Phosphorus (46% P205)		17.31	0.8700	15.06	
Potash (60% K20) FUNGICIDES CruiserMaxx Vibrance	cwt	22.11 4.75	1.3300	29.41 7.60	
HERBICIDES Glyphosate 31bs a.e	OZ	0.13	96.0000	12.48	
2,4-D Amine 4 Select Max	pt pt	2.25 12.74	2.0000	4.50 12.74	
Valor SX	OZ	4.51	2.0000	9.02 22.14	
Boundary Gramoxone SL 2.0	pt oz	11.07 0.19	2.0000 48.0000	9.12	
Prefix	pt	6.64	2.0000	13.28	
Zidua DF INSECTICIDES	OZ	8.72	1.5000	13.08	
Acephate 90SP IncidentalPestTrt \$8	lb acre	6.42 8.00	0.7500 1.0000	4.81 8.00	
SEED/PLANTS Soybean Seed RR2X ADJUVANTS	lb	1.34	50.0000	67.00	
Surfactant	pt	3.30	1.0000	3.30	
CUSTOM FERTILIZE Custom Apply Fert HAULING	acre	7.50	1.0000	7.50	
Haul Soybeans CUSTOM LIME	bu	0.27	42.0000	11.34	
Lime (Spread) CROP CONSULTANT	ton	47.45	0.3330	15.80	
Soybeans Consultant INOCULANT	acre	6.50	1.0000	6.50	
Inoculant -Soybean SOIL TEST	acre	1.55	1.0000	1.55	<del></del>
Soil Test OPERATOR LABOR	acre	10.00	0.3330	3.33	
Tractors Harvesters	hour hour	14.68 14.68	0.2942	4.30 1.25	
HAND LABOR Implements	hour	9.06	0.0959	0.87	<del></del>
UNALLOCATED LABOR DIESEL FUEL	hour	14.64	0.3414	5.00	
Tractors Harvesters	gal gal	1.53 1.53	3.4079 1.4243	5.22 2.18	
REPAIR & MAINTENANCE Implements	acre	5.23	1.0000	5.23	<del></del>
Tractors	acre	2.15	1.0000	2.15	
Harvesters INTEREST ON OP. CAP.	acre acre	3.50 7.65	1.0000	3.50 7.65	
TOTAL DIRECT EXPENSES				350.01	
FIXED EXPENSES	2000	10 26	1 0000	10 20	
Implements Tractors	acre acre	10.36 13.04	1.0000	10.36 13.04	
Harvesters	acre	13.41	1.0000	13.41	
TOTAL FIXED EXPENSES				36.81	
TOTAL SPECIFIED EXPENSES				386.82	

Table 8.B Summary of estimated costs and returns per acre Soybeans, full-season, RR2X, stale seedbed, 12R 30"
Non-irrigated, Delta Area, Mississippi, 2021

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	9.67	42.0000	406.14	
TOTAL INCOME				406.14	
DIRECT EXPENSES					
CUSTOM SPRAY	acre		1.0000	28.00	
HARVEST AIDS	acre	7.10	1.0000	7.10	
FERTILIZERS	acre	44.47	1.0000	44.47	
FUNGICIDES	acre	7.60	1.0000	7.60	
HERBICIDES	acre	96.36	1.0000	96.36	
INSECTICIDES	acre		1.0000	12.81	
SEED/PLANTS	acre			67.00	
ADJUVANTS	acre	3.30	1.0000	3.30	
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	
HAULING	acre	11.34	1.0000	11.34	
CUSTOM LIME	acre	15.80	1.0000	15.80	
CROP CONSULTANT	acre	6.50	1.0000	6.50	
INOCULANT	acre	1.55	1.0000	1.55	
SOIL TEST	acre	3.33	1.0000	3.33	
HAND LABOR	hour	9.06	0.0959	0.87	
OPERATOR LABOR	hour	14.68	0.3794	5.55	
UNALLOCATED LABOR	hour	14.64	0.3414	5.00	
DIESEL FUEL	gal	1.53	4.8323	7.40	
REPAIR & MAINTENANCE	acre	10.88	1.0000	10.88	
INTEREST ON OP. CAP.	acre	7.65	1.0000	7.65	
TOTAL DIRECT EXPENSES				350.01	
RETURNS ABOVE DIRECT EXP	PENSES			56.13	
TOTAL FIXED EXPENSES				36.81	
TOTAL SPECIFIED EXPENSES	S			386.82	
RETURNS ABOVE TOTAL SPEC		EXPENSES		19.32	

Table 8.C Estimated resource use for field operations, per acre Soybeans, full-season, RR2X, stale seedbed, 12R 30" Non-irrigated, Delta Area, Mississippi, 2021

OPERATION/	SIZE/	POWER UNIT		TIMES		INPUT		POWER	ALLOC	UNALL
OPERATING INPUT	UNIT	SIZE	RATE	OVER	MTH	AMOUNT	IMPLEMENT	UNIT	LABOR	LABOR
								ho	urs	
Soil Test	acre			0.33	Oct	0.3330				
Subsoiler	3 shank	MFWD 225	0.204	0.20	Oct		0.04	0.04	0.04	0.03
Lime (Spread)	ton			0.33	Oct	0.3330				
Custom Apply Fert	acre			1.00	Oct	1.0000				
Phosphorus (46% P2O5)	cwt					0.8700				
Potash (60% K20)	cwt					1.3300				
Disk Harrow	32'	MFWD 225	0.061	1.00	Oct		0.06	0.06	0.06	0.05
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	Oct		0.04	0.04	0.04	0.04
App by Air ( 5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 31bs a.e	OZ					32.0000				
2,4-D Amine 4	pt					2.0000				
Select Max	pt					1.0000				
Valor SX	OZ					2.0000				
Surfactant	pt					0.4000				
Plant & Pre-Folding	12R-30	MFWD 225	0.067	1.00	Apr		0.06	0.06	0.13	0.06
Soybean Seed RR2X	lb					50.0000				
CruiserMaxx Vibrance	OZ					1.6000				
Inoculant -Soybean	acre					1.0000				
Boundary	pt					2.0000				
Gramoxone SL 2.0	OZ					48.0000				
Surfactant	pt					0.4000				
Soybeans Consultant	acre			1.00	May	1.0000				
Spray (Broadcast)	60'	MFWD 225	0.028	1.00	May		0.02	0.02	0.04	0.02
Glyphosate 31bs a.e	ΟZ					32.0000				
Prefix	pt					2.0000				
Spray (Broadcast)	60 <b>'</b>	MFWD 225	0.028	1.00	May		0.02	0.02	0.04	0.02
Glyphosate 31bs a.e	ΟZ					32.0000				
Zidua DF	ΟZ					1.5000				
App by Air ( 5 gal)	appl			1.00	Aug	1.0000				
Acephate 90SP	lb					0.7500				
Incidental Pest				1.00	Aug					
App by Air ( 5 gal)	appl					1.0000				
IncidentalPestTrt \$8						1.0000				
App by Air ( 5 gal)	appl			1.00	Aug	1.0000				
Gramoxone SL	OZ					16.0000				
Sodium Chlorate 5L	gal					0.6000				
Surfactant	pt					0.2000				
Header -Soybean	30' Flex	325 hp	0.085	1.00	Sep		0.08	0.08	0.08	0.07
Haul Soybeans	bu					42.0000				
Grain Cart Soybean	700 bu	MFWD 225	0.021	1.00	Sep		0.02	0.02	0.02	0.01
TOTALS							0.37	0.37	0.47	0.34

Note: Cost of production estimates are based on 2020 input prices.

These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application

soil tests. Soil test cost is prorated for a test every 3<sup>rd</sup> year. Lime cost prorated for application every 3<sup>rd</sup> year. The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 8.D Estimated costs for field operations, per acre Soybeans, full-season, RR2X, stale seedbed, 12R 30" Non-irrigated, Delta Area, Mississippi, 2021

OPERATION/	SIZE/				DIRECT C	OST			FIXED	TOTAL
OPERATING INPUT	UNIT	OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	COST	COST
						dollars-				
Soil Test	acre	3.33					0.13	3.46		3.46
Subsoiler	3 shank	0.00	0.72	0.39	1.14		0.09	2.34	2.01	4.35
Lime (Spread)	ton	15.80	0.72	0.00	±•±1		0.63	16.43	2.01	16.43
Custom Apply Fert	acre	7.50					0.30	7.80		7.80
Phosphorus (46% P205)		15.06					0.60	15.66		15.66
Potash (60% K20)	cwt	29.41					1.18	30.59		30.59
Disk Harrow	32'	27.41	1.09	1.50	1.71		0.17	4.47	4.85	9.32
Field Cultivate Fld	32 <b>'</b>		0.83	0.85	1.30		0.12	3.10	4.14	7.24
App by Air (5 gal)	appl	7.00	0.03	0.05	1.30		0.12	7.19	4.14	7.19
Glyphosate 3lbs a.e	OZ	4.16					0.13	4.27		4.27
2,4-D Amine 4	pt	4.50					0.11	4.62		4.62
Select Max	pt	12.74					0.12	13.08		13.08
	-									
Valor SX	OZ	9.02					0.24	9.26		9.26
Surfactant	pt	1.32	1 00	0 55	0 40		0.04	1.36	6 70	1.36
Plant & Pre-Folding	12R-30	65.00	1.20	2.55	2.49		0.12	6.36	6.79	13.15
Soybean Seed RR2X	lb	67.00					1.34	68.34		68.34
CruiserMaxx Vibrance		7.60					0.15	7.75		7.75
Inoculant -Soybean	acre	1.55					0.03	1.58		1.58
Boundary	pt	22.14					0.44	22.58		22.58
Gramoxone SL 2.0	ΟZ	9.12					0.18	9.30		9.30
Surfactant	pt	1.32					0.03	1.35		1.35
Soybeans Consultant	acre	6.50					0.11	6.61		6.61
Spray (Broadcast)	60 <b>'</b>		0.50	0.38	0.91		0.03	1.82	1.45	3.27
Glyphosate 31bs a.e	OZ	4.16					0.07	4.23		4.23
Prefix	pt	13.28					0.22	13.50		13.50
Spray (Broadcast)	60'		0.50	0.38	0.91		0.03	1.82	1.45	3.27
Glyphosate 31bs a.e	OZ	4.16					0.07	4.23		4.23
Zidua DF	OZ	13.08					0.22	13.30		13.30
App by Air (5 gal)	appl	7.00					0.05	7.05		7.05
Acephate 90SP	lb	4.81					0.03	4.84		4.84
Incidental Pest										
App by Air (5 gal)	appl	7.00					0.05	7.05		7.05
IncidentalPestTrt \$8		8.00					0.05	8.05		8.05
App by Air (5 gal)	appl	7.00					0.05	7.05		7.05
Gramoxone SL	OZ	3.04					0.02	3.06		3.06
Sodium Chlorate 5L	gal	4.06					0.03	4.09		4.09
Surfactant	pt	0.66					0.05	0.66		0.66
Header -Soybean	30' Flex		2.18	4.43	2.37		0.03	9.01	14.76	23.77
Haul Soybeans	bu	11.34	∠.⊥0	4.43	2.31		0.03	11.38	14.10	11.38
		11.34	0 20	0 40	0 50		0.04		1 20	
Grain Cart Soybean	700 bu		0.38	0.40	0.59			1.37	1.36	2.73
TOTALS		312.66	7.40	10.88	11.42	0.00	7.65	350.01	36.81	386.82

Table 8.E Estimated monthly income and expense flows per acre Soybeans, full-season, RR2X, stale seedbed, 12R 30" Non-irrigated, Delta Area, Mississippi, 2021

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
						doll	ars					
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	406.14
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00	21.00	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.10	0.00
FERTILIZERS	44.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	7.60	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	30.42	0.00	31.26	34.68	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.81	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	67.00	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	1.32	0.00	1.32	0.00	0.00	0.00	0.66	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.34
CUSTOM LIME	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	1.55	0.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	4.15	0.00	0.00	0.00	0.00	0.00	2.49	1.82	0.00	0.00	0.00	2.96
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	2.64	0.00	0.00	0.00	0.00	0.00	1.20	1.00	0.00	0.00	0.00	2.56
REPAIR & MAINTENANCE	2.74	0.00	0.00	0.00	0.00	0.00	2.55	0.76	0.00	0.00	0.00	4.83
INTEREST ON OP. CAP.	3.22	0.00	0.00	0.00	1.04	0.00	2.29	0.75	0.00	0.00	0.28	0.07
TOTAL DIRECT EXPENSES	83.85	0.00	0.00	0.00	39.78	0.00	117.26	45.51	0.00	0.00	41.85	21.76
NET INCOME	-83.85	0.00	0.00	0.00	-39.78	0.00	-117.26	-45.51	0.00	0.00	-41.85	384.38
NET INCOME TO DATE	-83.85	-83.85	-83.85	-83.85	-123.63	-123.63	-240.89	-286.40	-286.40	-286.40	-328.25	56.13

Table 8.F Estimated returns for various price/yield combinations, per acre Soybeans, full-season, RR2X, stale seedbed, 12R 30"
Non-irrigated, Delta Area, Mississippi, 2021

		-						-PERCENT-					
PRODUCT			75	80	85	90	95	100	105 CE	110	115	120	125
Soybeans	3		7.25	7.73	8.21	8.70	9.18	9.67	10.15	10.63	11.12	11.60	12.08
PERCENT	YIELD	UNIT -					d	ollars					
50	21.00	bu	-192 -228	-181 -218	-171 -208	-161 -198	-151 -188	-141 -178	-131 -167	-120 -157	-110 -147	-100 -137	-90 -127
60	25.20	bu	-162 -199	-150 -187	-138 -175	-126 -162	-113 -150	-101 -138	-89 -126	-77 -114	-65 -102	-53 -89	-40 -77
70	29.40	bu	-133 -170	-119 -155	-104 -141	-90 -127	-76 -113	-62 -99	-48 -84	-33 -70	-19 -56	-5 -42	8 -28
80	33.60	bu	-104 -140	-87 -124	-71 -108	-55 -92	-39 -75	-22 -59	-6 -43	9 -27	25 -10	42 5	58 21
90	37.80	bu	-74 -111	-56 -93	-38 -74	-19 -56	-1 -38	16 -20	34 -1	53 16	71 34	89 52	108 71
100	42.00	bu	-45 -82	-25 -61	-4 -41	15 -21	35 -0	56 19	76 39	96 59	117 80	137 100	157 120
110	46.20	bu	-16 -52	6 -30	28 -8	50 14	73 36	95 58	117 81	140 103	162 125	184 148	207 170
120	50.40	bu	13 -23	37 0	61 25	86 49	110 73	135 98	159 122	183 147	208 171	232 195	256 220
130	54.60	bu	42 5	68 32	95 58	121 84	148 111	174 137	200 164	227 190	253 216	280 243	306 269
140	58.80	bu	71 35	100 63	128 91	157 120	185 148	214 177	242 205	270 234	299 262	327 290	356 319
150	63.00	bu	101 64	131 94	162 125	192 155	223 186	253 216	283 247	314 277	344 308	375 338	405 369

The top number in each cell is Returns Above Direct Expenses.

The bottom number in each cell is Returns Above Total Specified Expenses.

Note: Cost of production estimates are based on 2020 input prices.

Only the product listed has been varied to calculate net returns.

Table 9.A Estimated costs per acre Soybeans, full-season, RR2X, stale seedbed, 12R 30" Furrow irrigated, 9 ac-in., Delta Area, Mississippi, 2021

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES CUSTOM SPRAY					
App by Air ( 5 gal) HARVEST AIDS	appl	7.00	5.0000	35.00	
Gramoxone SL Sodium Chlorate 5L FERTILIZERS	oz gal	0.19 6.77	16.0000 0.6000	3.04 4.06	
Phosphorus (46% P205) Potash (60% K20)	cwt cwt	17.31 22.11	0.8700 1.3300	15.06 29.41	
FUNGICIDES CruiserMaxx Vibrance Miravis Top	OZ OZ	4.75 1.44	1.6000 13.7000	7.60 19.73	
HERBICIDES Glyphosate 31bs a.e	ΟZ	0.13	96.0000	12.48	
2,4-D Amine 4 Select Max	pt pt	2.25 12.74	2.0000	4.50 12.74	
Valor SX	ΟZ	4.51	2.0000	9.02	
Boundary Gramoxone SL 2.0	pt oz	11.07 0.19	2.0000 48.0000	22.14 9.12	
Prefix Zidua DF	pt oz	6.64 8.72	2.0000 1.5000	13.28 13.08	
INSECTICIDES Acephate 90SP	lb	6.42	0.7500	4.81	
IncidentalPestTrt \$8 IRRIGATION SUPPLIES		8.00	1.0000	8.00	
Roll-Out Pipe	ft	0.24	33.0000	7.92	
SEED/PLANTS Soybean Seed RR2X	lb	1.34	50.0000	67.00	
ADJUVANTS Surfactant	pt	3.30	1.1000	3.63	
CUSTOM FERTILIZE Custom Apply Fert	acre	7.50	1.0000	7.50	
HAULING Haul Soybeans	bu	0.27	60.0000	16.20	
CUSTOM LIME Lime (Spread)	ton	47.45	0.3330	15.80	
CROP CONSULTANT Soybeans Consultant	acre	6.50	1.0000	6.50	
INOCULANT Inoculant -Soybean	acre	1.55	1.0000	1.55	
SOIL TEST Soil Test	acre	10.00	0.3330	3.33	
OPERATOR LABOR Tractors	hour	14.68	0.4536	6.65 1.25	
Harvesters IRRIGATE LABOR	hour	14.68 9.06	0.0851	2.73	
Special Labor Implements HAND LABOR	hour	9.06	0.0625	0.57	
Implements UNALLOCATED LABOR DIESEL FUEL	hour hour	9.06 14.65	0.0959 0.4142	0.87 6.07	
Tractors Harvesters	gal gal	1.53 1.53	4.9868 1.4243	7.64 2.18	
Roll-Out Pipe Irr. REPAIR & MAINTENANCE	gal	1.53	7.3316	11.22	
Implements Tractors	acre	6.18 3.11	1.0000	6.18 3.11	
Harvesters	acre acre	3.50	1.0000	3.50	
Roll-Out Pipe Irr. INTEREST ON OP. CAP.	acre acre	7.16 8.55	1.0000	7.16 8.55	
TOTAL DIRECT EXPENSES				420.18	
FIXED EXPENSES Implements	acre	13.55	1.0000	13.55	
Tractors Harvesters	acre acre	18.92 13.41	1.0000	18.92 13.41	
Roll-Out Pipe Irr.	acre	51.84	1.0000	51.84	
TOTAL FIXED EXPENSES				97.72	
TOTAL SPECIFIED EXPENSES				517.90	

Table 9.B Summary of estimated costs and returns per acre Soybeans, full-season, RR2X, stale seedbed, 12R 30" Furrow irrigated, 9 ac-in., Delta Area, Mississippi, 2021

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	9.67	60.0000	580.20	
TOTAL INCOME				580.20	
DIRECT EXPENSES					
CUSTOM SPRAY	acre	35.00	1.0000	35.00	
HARVEST AIDS	acre	7.10	1.0000	7.10	
FERTILIZERS	acre	44.47	1.0000	44.47	
FUNGICIDES	acre	27.33	1.0000	27.33	
HERBICIDES	acre	96.36	1.0000	96.36	
INSECTICIDES	acre	12.81	1.0000	12.81	
IRRIGATION SUPPLIES	acre	7.92	1.0000	7.92	
SEED/PLANTS	acre	67.00	1.0000	67.00	
ADJUVANTS	acre	3.63	1.0000	3.63	
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	
HAULING	acre	16.20	1.0000	16.20	
CUSTOM LIME	acre	15.80	1.0000	15.80	
CROP CONSULTANT	acre	6.50	1.0000	6.50	
INOCULANT	acre	1.55	1.0000	1.55	
SOIL TEST	acre	3.33	1.0000	3.33	
HAND LABOR	hour	9.06	0.0959	0.87	
IRRIGATE LABOR	hour	9.06	0.3625	3.30	
OPERATOR LABOR	hour	14.68	0.5388	7.90	
UNALLOCATED LABOR	hour	14.65	0.4142	6.07	
DIESEL FUEL	gal	1.53	13.7429	21.04	
REPAIR & MAINTENANCE	acre	19.95	1.0000	19.95	
INTEREST ON OP. CAP.	acre	8.55	1.0000	8.55	
TOTAL DIRECT EXPENSES				420.18	
RETURNS ABOVE DIRECT EXE	PENSES			160.02	
TOTAL FIXED EXPENSES				97.72	
TOTAL SPECIFIED EXPENSES	5			517.90	
RETURNS ABOVE TOTAL SPEC	CIFIED E	EXPENSES		62.30	

Table 9.C Estimated resource use for field operations, per acre Soybeans, full-season, RR2X, stale seedbed, 12R 30" Furrow irrigated, 9 ac-in., Delta Area, Mississippi, 2021

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
								ho	urs	
Soil Test	acre			0.33	Oct	0.3330				
Subsoiler	3 shank	MFWD 225	0.204	0.20	Oct		0.04	0.04	0.04	0.03
Lime (Spread)	ton			0.33	Oct	0.3330				
Custom Apply Fert	acre			1.00	Oct	1.0000				
Phosphorus (46% P2O5)	cwt					0.8700				
Potash (60% K20)	cwt					1.3300				
Disk Harrow	32'	MFWD 225	0.061	1.00	Oct		0.06	0.06	0.06	0.05
Field Cultivate Fld	32'	MFWD 190	0.046	1.00	Oct		0.04	0.04	0.04	0.04
Bed/Lister-Roll-Fo	12R-30	MFWD 225	0.080	1.00	Oct		0.08	0.08	0.08	0.07
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e	OZ			1.00	100	32.0000				
2,4-D Amine 4	pt					2.0000				
Select Max	pt					1.0000				
Valor SX	OZ					2.0000				
Surfactant	pt					0.4000				
Plant & Pre-Folding	12R-30	MFWD 225	0.067	1 00	Apr	0.4000	0.06	0.06	0.13	0.06
Soybean Seed RR2X	lb	FILWD 225	0.007	1.00	npı	50.0000	0.00	0.00	0.13	0.00
CruiserMaxx Vibrance						1.6000				
Inoculant -Soybean	acre					1.0000				
<del>-</del>						2.0000				
Boundary Gramoxone SL 2.0	pt					48.0000				
Surfactant	oz pt					0.4000				
Soybeans Consultant	acre			1.00	May	1.0000				
Spray (Broadcast)	60'	MFWD 225	0.028	1.00	May	1.0000	0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e		MEWD 223	0.020	1.00	мау	32.0000	0.02	0.02	0.04	0.02
Prefix	OZ ~+					2.0000				
Spray (Broadcast)	pt 60'	MFWD 225	0.028	1.00	Mav	2.0000	0.02	0.02	0.04	0.02
Glyphosate 31bs a.e		MEWD 223	0.020	1.00	мау	32.0000	0.02	0.02	0.04	0.02
Zidua DF	OZ									
	OZ			1 00	T 1	1.5000				
App by Air (5 gal)	appl			1.00	Jul	1.0000				
Miravis Top	ΟZ					13.7000				
Surfactant	pt			1 00	7	0.1000				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Acephate 90SP	lb			1 00	7	0.7500				
Incidental Pest	2001			1.00	Aug	1 0000				
App by Air (5 gal)	appl					1.0000				
IncidentalPestTrt \$8				1 00	7	1.0000				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Gramoxone SL	OZ					16.0000				
Sodium Chlorate 5L	gal n+					0.6000				
Surfactant	pt	205 7	0 005	1 00	0.0	0.2000	0 00	0 00	0 00	0 07
Header -Soybean	30' Flex	325 hp	0.085	1.00	Sep	60 0000	0.08	0.08	0.08	0.07
Haul Soybeans	bu	MEND OOF	0 001	1 00	0	60.0000	0 00	0 00	0.00	0 01
Grain Cart Soybean	700 bu	MFWD 225	0.021	1.00	Sep	1 0000	0.02	0.02	0.02	0.01
Roll-Out Pipe Irr.	acre				Jul	1.0000	0.07	0.07	0.44	
TOTALS							0.53	0.53	0.99	0.41

Table 9.D Estimated costs for field operations, per acre Soybeans, full-season, RR2X, stale seedbed, 12R 30" Furrow irrigated, 9 ac-in., Delta Area, Mississippi, 2021

OPERATION/	SIZE/				DIRECT C	OST			FIXED	TOTAL
OPERATING INPUT	UNIT	OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	COST	COST
						dollars-				
Soil Test	acre	3.33					0.13	3.46		3.46
Subsoiler	3 shank	3.33	0.72	0.39	1.14		0.09	2.34	2.01	4.35
Lime (Spread)	ton	15.80	0.72	0.33	1.14		0.63	16.43	2.01	16.43
Custom Apply Fert	acre	7.50					0.30	7.80		7.80
Phosphorus (46% P205)	cwt	15.06					0.60	15.66		15.66
Potash (60% K20)	cwt	29.41					1.18	30.59		30.59
Disk Harrow	32'	27.41	1.09	1.50	1.71		0.17	4.47	4.85	9.32
Field Cultivate Fld	32 <b>'</b>		0.70	0.79	1.30		0.11	2.90	3.79	6.69
Bed/Lister-Roll-Fo	12R-30		1.43	1.35	2.26		0.20	5.24	5.54	10.78
App by Air (5 gal)		7.00	1.40	1.33	2.20		0.20	7.19	3.34	7.19
Glyphosate 3lbs a.e	appl oz	4.16					0.19	4.27		4.27
2,4-D Amine 4	pt	4.50					0.11	4.62		4.62
Select Max	pt	12.74					0.12	13.08		13.08
Valor SX	οz	9.02					0.34	9.26		9.26
Surfactant		1.32					0.24	1.36		1.36
Plant & Pre-Folding	pt 12R-30	1.32	1.20	2.55	2.49		0.04	6.36	6.79	13.15
Soybean Seed RR2X	12K-30	67.00	1.20	2.55	2.49		1.34	68.34	0.79	68.34
CruiserMaxx Vibrance		7.60					0.15	7.75		7.75
								1.58		1.58
Inoculant -Soybean	acre	1.55 22.14					0.03	22.58		22.58
Boundary Gramoxone SL 2.0	pt	9.12					0.44	9.30		9.30
Surfactant	OZ D+	1.32					0.10	1.35		1.35
	pt	6.50					0.03	6.61		6.61
Soybeans Consultant	acre 60'	0.30	0.50	0.38	0.91		0.11	1.82	1.45	3.27
Spray (Broadcast) Glyphosate 3lbs a.e	OZ	4.16	0.50	0.50	0.91		0.03	4.23	1.40	4.23
Prefix		13.28					0.07	13.50		13.50
Spray (Broadcast)	pt 60'	13.20	0.50	0.38	0.91		0.22	1.82	1.45	3.27
Glyphosate 31bs a.e		4.16	0.30	0.30	0.91		0.03	4.23	1.40	4.23
Zidua DF	OZ	13.08					0.07	13.30		13.30
	0Z	7.00					0.22	7.07		7.07
App by Air (5 gal) Miravis Top	appl	19.73					0.07	19.93		19.93
Surfactant	OZ D+	0.33					0.20	0.33		0.33
	pt						0 05	7.05		
App by Air (5 gal)	appl lb	7.00					0.05	4.84		7.05 4.84
Acephate 90SP Incidental Pest	ΔL	4.81					0.03	4.04		4.04
	222 1	7 00					0.05	7.05		7.05
App by Air (5 gal)	appl	7.00								
IncidentalPestTrt \$8		8.00					0.05	8.05		8.05
App by Air (5 gal)	appl	7.00					0.05	7.05 3.06		7.05 3.06
Gramoxone SL	OZ	3.04					0.02			
Sodium Chlorate 5L	gal	4.06					0.03	4.09		4.09
Surfactant	pt	0.66	2 10	/ / J	2 27		0 03	0.66	1176	0.66
Header -Soybean	30' Flex		2.18	4.43	2.37		0.03	9.01	14.76	23.77
Haul Soybeans	bu	16.20	0 20	0 40	0 50		0.05	16.25	1 20	16.25
Grain Cart Soybean	700 bu	7 00	0.38	0.40	0.59		0 42	1.37	1.36	2.73
Roll-Out Pipe Irr.	acre	7.92	12.34	7.78	4.46		0.43	32.93	55.72	88.65
TOTALS		352.50	21.04	19.95	18.14	0.00	8.55	420.18	97.72	517.90

Table 9.E Estimated monthly income and expense flows per acre Soybeans, full-season, RR2X, stale seedbed, 12R 30" Furrow irrigated, 9 ac-in., Delta Area, Mississippi, 2021

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
						doll	ars					
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	580.20
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00	7.00	21.00	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.10	0.00
FERTILIZERS	44.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	7.60	0.00	0.00	19.73	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	30.42	0.00	31.26	34.68	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.81	0.00
IRRIGATION SUPPLIES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.92	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	67.00	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	1.32	0.00	1.32	0.00	0.00	0.33	0.66	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.20
CUSTOM LIME	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	1.55	0.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	6.97	0.00	0.00	0.00	0.00	0.00	2.49	2.05	2.82	0.23	0.00	3.58
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	4.51	0.00	0.00	0.00	0.00	0.00	1.20	1.00	7.78	3.74	0.00	2.81
REPAIR & MAINTENANCE	4.33	0.00	0.00	0.00	0.00	0.00	2.55	0.76	5.93	1.40	0.00	4.98
INTEREST ON OP. CAP.	3.47	0.00	0.00	0.00	1.04	0.00	2.29	0.75	0.32	0.32	0.28	0.08
TOTAL DIRECT EXPENSES	90.38	0.00	0.00	0.00	39.78	0.00	117.26	45.74	24.77	32.75	41.85	27.65
NET INCOME	-90.38	0.00	0.00	0.00	-39.78	0.00	-117.26	-45.74	-24.77	-32.75	-41.85	552.55
NET INCOME TO DATE	-90.38	-90.38	-90.38	-90.38	-130.16	-130.16	-247.42	-293.16	-317.93	-350.68	-392.53	160.02

<sup>\*</sup> Lease costs are based on hourly usage costs.

Table 9.F Estimated returns for various price/yield combinations, per acre Soybeans, full-season, RR2X, stale seedbed, 12R 30"
Furrow irrigated, 9 ac-in., Delta Area, Mississippi, 2021

								-PERCENT-					
PRODUCT			75	80	85	90	95	100	105 CE	110	115	120	125
Soybeans	3		7.25	7.73	8.21	8.70	9.18	9.67	10.15	10.63	11.12	11.60	12.08
PERCENT	YIELD	UNIT					d	ollars					
50	30.00	bu	-194 -292	-179 -277	-165 -263	-150 -248	-136 -234	-121 -219	-107 -205	-92 -190	-78 -176	-63 -161	-49 -147
60	36.00	bu	-152 -250	-135 -232	-117 -215	-100 -198	-82 -180	-65 -163	-48 -145	-30 -128	-13 -111	4 -93	21 -76
70	42.00	bu	-110 -208	-90 -188	-70 -167	-49 -147	-29 -127	-9 -106	11 -86	31 -66	51 -45	72 <b>-</b> 25	92 -5
80	48.00	bu	-68 -166	-45 -143	-22 -120	0 -96	24 -73	47 -50	70 -27	93 -4	116 19	140 42	163 65
90	54.00	bu	-26 -124	-0 -98	25 <b>-</b> 72	51 -46	77 <b>-</b> 20	103 5	129 32	155 58	181 84	208 110	234 136
100	60.00	bu	14 -82	43 -53	72 -24	102 4	131 33	160 62	189 91	218 120	247 149	276 178	305 207
110	66.00	bu	56 -40	88 -8	120 22	152 54	184 86	216 118	248 150	280 182	312 214	344 246	375 278
120	72.00	bu	98 1	133 35	168 70	203 105	237 140	272 175	307 209	342 244	377 279	412 314	446 349
130	78.00	bu	140 42	178 80	216 118	253 156	291 193	329 231	366 269	404 306	442 344	480 382	517 420
140	84.00	bu	182 84	223 125	263 166	304 206	344 247	385 287	426 328	466 369	507 409	548 450	588 490
150	90.00	bu	224 126	267 170	311 213	354 257	398 300	441 344	485 387	529 431	572 474	616 518	659 561

The top number in each cell is Returns Above Direct Expenses.

The bottom number in each cell is Returns Above Total Specified Expenses.

Note: Cost of production estimates are based on 2020 input prices.

Only the product listed has been varied to calculate net returns.

Table 10.A Estimated costs per acre Soybeans, full-season, RR2X, stale seedbed, 12R 30" Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2021

ITEM	UNIT	PRICE	QUANTITY		YOUR FARM
T T DM	ONTI		MOUNTILL		TOOK FARM
DIRECT EXPENSES CUSTOM SPRAY		dollars		dollars	
App by Air ( 5 gal) HARVEST AIDS	appl	7.00	4.0000	28.00	
Gramoxone SL Sodium Chlorate 5L	oz gal	0.19 6.77	16.0000 0.6000	3.04 4.06	
FERTILIZERS Phosphorus (46% P205) Potash (60% K20)	cwt cwt	17.31 22.11	0.8700 1.3300	15.06 29.41	
FUNGICIDES CruiserMaxx Vibrance Miravis Top	OZ OZ	4.75 1.44	1.6000 13.7000	7.60 19.73	
HERBICIDES Glyphosate 31bs a.e	OZ	0.13	96.0000	12.48	
Select Max Valor SX	pt oz	12.74 4.51	1.0000 2.0000	12.74 9.02	
Boundary Gramoxone SL 2.0 Prefix	pt oz pt	11.07 0.19 6.64	2.0000 48.0000 2.0000	22.14 9.12 13.28	
INSECTICIDES Acephate 90SP IncidentalPestTrt \$8	lb acre	6.42 8.00	0.7500 1.0000	4.81 8.00	
SEED/PLANTS Soybean Seed RR2X	lb	1.34	50.0000	67.00	
ADJUVANTS Surfactant CUSTOM FERTILIZE	pt	3.30	1.1000	3.63	
Custom Apply Fert HAULING	acre	7.50	1.0000	7.50	
Haul Soybeans SURVEY & MARK LEVEES	bu	0.27	53.0000	14.31	
Survey & Mark Levees CUSTOM LIME	acre	4.50	0.5000	2.25	
Lime (Spread) CROP CONSULTANT	ton	47.45	0.3330	15.80	
Soybeans Consultant INOCULANT	acre	6.50	1.0000	6.50	
Inoculant -Soybean SOIL TEST	acre	1.55	1.0000	1.55	
Soil Test OPERATOR LABOR	acre	10.00	0.3330	3.33	
Tractors Harvesters	hour hour	14.68 14.68	0.4377 0.0851	6.37 1.25	
IRRIGATE LABOR Special Labor HAND LABOR	hour	9.06	0.3125	2.82	
Implements UNALLOCATED LABOR DIESEL FUEL	hour hour	9.06 14.61	0.1100 0.2880	1.00 4.21	
Tractors Harvesters Contour Flood Irr. REPAIR & MAINTENANCE	gal gal gal	1.53 1.53 1.53	4.4959 1.4243 10.9974	6.90 2.18 16.83	
Tractors Harvesters	acre acre acre	5.09 2.73 3.50	1.0000 1.0000 1.0000	5.09 2.73 3.50	
Contour Flood Irr. INTEREST ON OP. CAP.	acre acre	14.31 8.14	1.0000	14.31	
TOTAL DIRECT EXPENSES FIXED EXPENSES				395.69	
Implements Tractors Harvesters Contour Flood Irr.	acre acre acre acre	9.53 16.59 13.41 41.43	1.0000 1.0000 1.0000 1.0000	9.53 16.59 13.41 41.43	
TOTAL FIXED EXPENSES				80.96	
TOTAL SPECIFIED EXPENSES				476.65	

Table 10.B Summary of estimated costs and returns per acre Soybeans, full-season, RR2X, stale seedbed, 12R 30" Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2021

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME	_				
Soybeans	bu	9.67	53.0000	512.51	
TOTAL INCOME				512.51	
DIRECT EXPENSES					
CUSTOM SPRAY	acre	28.00	1.0000	28.00	
HARVEST AIDS	acre	7.10	1.0000	7.10	
FERTILIZERS	acre	44.47	1.0000	44.47	
FUNGICIDES	acre	27.33	1.0000	27.33	
HERBICIDES	acre	78.78	1.0000	78.78	
INSECTICIDES	acre	12.81	1.0000	12.81	
SEED/PLANTS	acre	67.00	1.0000	67.00	
ADJUVANTS	acre	3.63	1.0000	3.63	
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	
HAULING	acre	14.31	1.0000	14.31	
SURVEY & MARK LEVEES	acre	2.25	1.0000	2.25	
CUSTOM LIME	acre	15.80	1.0000	15.80	
CROP CONSULTANT	acre	6.50	1.0000	6.50	
INOCULANT	acre	1.55	1.0000	1.55	
SOIL TEST	acre	3.33	1.0000	3.33	
HAND LABOR	hour	9.06	0.1100	1.00	
IRRIGATE LABOR	hour	9.06	0.3125	2.82	
OPERATOR LABOR	hour	14.68	0.5229	7.62	
UNALLOCATED LABOR	hour	14.61	0.2880	4.21	
DIESEL FUEL	gal	1.53		25.91	
REPAIR & MAINTENANCE	_	25.63	1.0000	25.63	
	acre	8.14	1.0000	8.14	
TOTAL DIRECT EXPENSES			•	395.69	
RETURNS ABOVE DIRECT EXI	PENSES			116.82	
TOTAL FIXED EXPENSES				80.96	
TOTAL SPECIFIED EXPENSES	3			476.65	
RETURNS ABOVE TOTAL SPEC	CIFIED E	XPENSES		35.86	

Table 10.C Estimated resource use for field operations, per acre Soybeans, full-season, RR2X, stale seedbed, 12R 30"
Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2021

	SIZE/	POWER UNIT		TIMES		INPUT		POWER	ALLOC	UNALL
OPERATING INPUT	UNIT	SIZE	RATE	OVER	MTH	AMOUNT	IMPLEMENT	UNIT	LABOR	LABOR
								ho	urs	
Soil Test	acre			0.33	Nov	0.3330				
Disk Harrow	32 <b>'</b>	MFWD 225	0.061	1.00	Nov		0.06	0.06	0.06	0.05
Lime (Spread)	ton			0.33	Nov	0.3330				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Phosphorus (46% P2O5)	cwt					0.8700				
Potash (60% K20)	cwt					1.3300				
Spray (Broadcast)	60 <b>'</b>	MFWD 225	0.028	1.00	Feb		0.02	0.02	0.04	0.02
Glyphosate 31bs a.e	OZ					32.0000				
Select Max	pt					1.0000				
Surfactant	pt					0.4000				
Valor SX	OZ					2.0000				
Soybeans Consultant	acre			1.00	May	1.0000				
Plant & Pre-Folding	12R-30	MFWD 225	0.067	1.00	May		0.06	0.06	0.13	0.06
Soybean Seed RR2X	lb				-	50.0000				
CruiserMaxx Vibrance	. oz					1.6000				
Inoculant -Soybean	acre					1.0000				
Boundary	pt					2.0000				
Gramoxone SL 2.0	OZ					48.0000				
Surfactant	pt					0.4000				
Spray (Broadcast)	60 <b>'</b>	MFWD 225	0.028	1.00	May		0.02	0.02	0.04	0.02
Glyphosate 31bs a.e	OZ				-	32.0000				
Prefix	pt					2.0000				
Spray (Broadcast)	60 <b>'</b>	MFWD 225	0.028	1.00	Jun		0.02	0.02	0.04	0.02
Glyphosate 31bs a.e	OZ					32.0000				
App by Air (5 gal)	appl			1.00	Jul	1.0000				
Miravis Top	OZ					13.7000				
Surfactant	pt					0.1000				
App by Air ( 5 gal)	appl			1.00	Aug	1.0000				
Acephate 90SP	lb				_	0.7500				
Incidental Pest				1.00	Sep					
App by Air ( 5 gal)	appl				-	1.0000				
IncidentalPestTrt \$8						1.0000				
App by Air (5 gal)	appl			1.00	Sep	1.0000				
Gramoxone SL	OZ				-	16.0000				
Sodium Chlorate 5L	gal					0.6000				
Surfactant	pt					0.2000				
Header -Soybean	30' Flex	325 hp	0.085	1.00	Oct		0.08	0.08	0.08	0.07
Haul Soybeans	bu	1				53.0000				
Grain Cart Soybean	700 bu	MFWD 225	0.021	1.00	Oct		0.02	0.02	0.02	0.01
Contour Flood Irr.	acre				Jul	1.0000	0.20	0.20	0.51	
TOTALS							0.52	0.52	0.94	0.28
-							–			0

rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 10.D Estimated costs for field operations, per acre Soybeans, full-season, RR2X, stale seedbed, 12R 30" Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2021

OPERATION/	SIZE/			:	DIRECT C	OST			FIXED	TOTAL
OPERATING INPUT	UNIT	OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	COST	COST
						dollars-				
Soil Test	acre	3.33					0.13	3.46		3.46
Disk Harrow	32'	0.00	1.09	1.50	1.71		0.17	4.47	4.85	9.32
Lime (Spread)	ton	15.80	1.00	1.00	±•/±		0.63	16.43	1.00	16.43
Custom Apply Fert	acre	7.50					0.30	7.80		7.80
Phosphorus (46% P205)	cwt	15.06					0.60	15.66		15.66
Potash (60% K20)	cwt	29.41					1.18	30.59		30.59
Spray (Broadcast)	60'	27.11	0.50	0.38	0.91		0.05	1.84	1.45	3.29
Glyphosate 31bs a.e	OZ	4.16	0.50	0.50	0.51		0.03	4.28	1.45	4.28
Select Max	pt	12.74					0.12	13.12		13.12
Surfactant	pt	1.32					0.04	1.36		1.36
Valor SX	-	9.02					0.04	9.29		9.29
	OZ									
Soybeans Consultant	acre	6.50	1 00	0 55	0 40		0.13	6.63	6 70	6.63
Plant & Pre-Folding	12R-30	65.00	1.20	2.55	2.49		0.12	6.36	6.79	13.15
Soybean Seed RR2X	lb	67.00					1.34	68.34		68.34
CruiserMaxx Vibrance		7.60					0.15	7.75		7.75
Inoculant -Soybean	acre	1.55					0.03	1.58		1.58
Boundary	pt	22.14					0.44	22.58		22.58
Gramoxone SL 2.0	ΟZ	9.12					0.18	9.30		9.30
Surfactant	pt	1.32					0.03	1.35		1.35
Spray (Broadcast)	60'		0.50	0.38	0.91		0.04	1.83	1.45	3.28
Glyphosate 31bs a.e	OZ	4.16					0.08	4.24		4.24
Prefix	pt	13.28					0.27	13.55		13.55
Spray (Broadcast)	60'		0.50	0.38	0.91		0.03	1.82	1.45	3.27
Glyphosate 31bs a.e	ΟZ	4.16					0.07	4.23		4.23
App by Air ( 5 gal)	appl	7.00					0.09	7.09		7.09
Miravis Top	OZ	19.73					0.26	19.99		19.99
Surfactant	pt	0.33						0.33		0.33
App by Air (5 gal)	appl	7.00					0.07	7.07		7.07
Acephate 90SP	lb	4.81					0.05	4.86		4.86
Incidental Pest										
App by Air (5 gal)	appl	7.00					0.05	7.05		7.05
IncidentalPestTrt \$8		8.00					0.05	8.05		8.05
App by Air (5 gal)	appl	7.00					0.05	7.05		7.05
Gramoxone SL	appi OZ	3.04					0.03	3.06		3.06
Sodium Chlorate 5L		4.06					0.02	4.09		
	gal						0.03			4.09
Surfactant	pt	0.66	0 10	4 42	0 25		0 00	0.66	14 76	0.66
Header -Soybean	30' Flex	1 4 0 7	2.18	4.43	2.37		0.03	9.01	14.76	23.77
Haul Soybeans	bu	14.31					0.05	14.36	4 0 -	14.36
Grain Cart Soybean	700 bu		0.38	0.40	0.59			1.37	1.36	2.73
Contour Flood Irr.	acre	2.25	19.56	15.61	5.76		0.61	43.79	48.85	92.64
TOTALS		320.36	25.91	25.63	15.65	0.00	8.14	395.69	80.96	476.65

Table 10.E Estimated monthly income and expense flows per acre Soybeans, full-season, RR2X, stale seedbed, 12R 30" Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2021

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
·						doll	ars					
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	512.51
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.00	7.00	14.00	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.10	0.00
FERTILIZERS	44.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	7.60	0.00	19.73	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	25.92	0.00	0.00	48.70	4.16	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.81	8.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	67.00	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	1.32	0.00	0.00	1.32	0.00	0.33	0.00	0.66	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.31
SURVEY & MARK LEVEES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.25	0.00	0.00	0.00	0.00
CUSTOM LIME	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	1.55	0.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	1.71	0.00	0.00	0.91	0.00	0.00	3.85	2.78	1.63	1.63	0.18	2.96
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	1.09	0.00	0.00	0.50	0.00	0.00	1.70	7.11	6.39	6.39	0.17	2.56
REPAIR & MAINTENANCE	1.50	0.00	0.00	0.38	0.00	0.00	2.93	9.57	3.17	3.17	0.08	4.83
INTEREST ON OP. CAP.	3.01	0.00	0.00	0.86	0.00	0.00	2.82	0.43	0.50	0.24	0.20	0.08
TOTAL DIRECT EXPENSES	78.41	0.00	0.00	29.89	0.00	0.00	143.97	26.30	38.75	23.24	30.39	24.74
NET INCOME	-78.41	0.00	0.00	-29.89	0.00	0.00	-143.97	-26.30	-38.75	-23.24	-30.39	487.77
NET INCOME TO DATE	-78.41	-78.41	-78.41	-108.30	-108.30	-108.30	-252.27	-278.57	-317.32	-340.56	-370.95	116.82

<sup>\*</sup> Lease costs are based on hourly usage costs.

Table 10.F Estimated returns for various price/yield combinations, per acre Soybeans, full-season, RR2X, stale seedbed, 12R 30"
Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2021

PRODUCT			75	80	85	90	95 PR	100	105	110	115	120	125
Soybeans	3		7.25	7.73	8.21	8.70	9.18	9.67	10.15	10.63	11.12	11.60	12.08
PERCENT	YIELD	UNIT					d	ollars					
50	26.50	bu	-196 -277	-183 -264	-170 -251	-157 -238	-145 -226	-132 -213	-119 -200	-106 -187	-93 -174	-81 -161	-68 -149
60	31.80	bu	-159 -240	-143 -224	-128 -209	-113 -194	-97 -178	-82 -163	-67 -148	-51 -132	-36 -117	-20 -101	-5 -86
70	37.10	bu	-122 -203	-104 -185	-86 -167	-68 -149	-50 -131	-32 -113	-14 -95	3 -77	21 -59	39 -41	57 -23
80	42.40	bu	-85 -166	-64 -145	-44 -125	-23 -104	-3 -84	17 -63	37 -43	58 -22	78 -2	99 18	119 38
90	47.70	bu	-48 -129	-25 -106	-2 -83	20 -60	43 -37	67 -13	90 9	113 32	136 55	159 78	182 101
100	53.00	bu	-11 -92	14 -66	39 -41	65 <b>-</b> 15	91 10	116 35	142 61	168 87	193 112	219 138	244 163
110	58.30	bu	25 -55	53 -27	82 1	110 29	138 57	166 85	194 113	223 142	251 170	279 198	307 226
120	63.60	bu	62 -18	93 12	124 43	154 73	185 104	216 135	247 166	277 196	308 227	339 258	370 289
130	68.90	bu	99 18	133 52	166 85	199 118	232 151	266 185	299 218	332 251	366 285	399 318	432 351
140	74.20	bu	136 55	172 91	208 127	244 163	280 199	316 235	351 270	387 306	423 342	459 378	495 414
150	79.50	bu	173 92	212 131	250 169	289 208	327 246	365 284	404 323	442 361	481 400	519 438	558 477

The top number in each cell is Returns Above Direct Expenses.

The bottom number in each cell is Returns Above Total Specified Expenses.

Note: Cost of production estimates are based on 2020 input prices.

Only the product listed has been varied to calculate net returns.

Table 11.A Estimated costs per acre Soybeans, double crop after wheat, RR2X, 12R 30" Pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2021

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollara	
DIRECT EXPENSES CUSTOM SPRAY		dollars		dollars	
App by Air ( 5 gal) FERTILIZERS	appl	7.00	4.0000	28.00	
Phosphorus (46% P205) Potash (60% K20) FUNGICIDES	cwt cwt	17.31 22.11	0.8700 1.3300	15.06 29.41	
CruiserMaxx Vibrance Miravis Top	OZ OZ	4.75 1.44	1.6000 13.7000	7.60 19.73	
HERBICIDES Boundary Gramoxone SL 2.0 Glyphosate 3lbs a.e Prefix	pt oz oz pt	11.07 0.19 0.13 6.64	2.0000 48.0000 32.0000 2.0000	22.14 9.12 4.16 13.28	
INSECTICIDES Acephate 90SP Prevathon Bifenthrin IncidentalPestTrt \$8	lb oz oz	6.42 1.05 0.94 8.00	0.7500 14.0000 6.4000 1.0000	4.81 14.70 6.02 8.00	
SEED/PLANTS Soybean Seed RR2X	lb	1.34	50.0000	67.00	
ADJUVANTS Surfactant CUSTOM FERTILIZE	pt	3.30	0.6000	1.98	
Custom Apply Fert HAULING	acre	7.50	1.0000	7.50	
Haul Soybeans CUSTOM LIME	bu	0.27	50.0000	13.50	
Lime (Spread) CROP CONSULTANT Soybeans Consultant	ton acre	47.45 6.50	1.0000	15.80 6.50	
INOCULANT Inoculant -Soybean	acre	1.55	1.0000	1.55	
SOIL TEST Soil Test	acre	10.00	0.3330	3.33	
OPERATOR LABOR Tractors Harvesters IRRIGATE LABOR	hour hour	14.68 14.68	0.1171 0.1021	1.71 1.50	
Special Labor HAND LABOR	hour	9.06	0.0518	0.47	
Implements UNALLOCATED LABOR DIESEL FUEL	hour hour	9.06 14.68	0.0817 0.1886	0.74 2.77	
Tractors Harvesters 1/2-mi Pivot Irr. REPAIR & MAINTENANCE	gal gal gal	1.53 1.53 1.53	1.3567 1.3935 16.4057	2.08 2.13 25.10	
Implements Tractors Harvesters 1/2-mi Pivot Irr. INTEREST ON OP. CAP.	acre acre acre acre acre	3.40 0.85 4.16 12.00 6.54	1.0000 1.0000 1.0000 1.0000 1.0000	3.40 0.85 4.16 12.00 6.54	
TOTAL DIRECT EXPENSES FIXED EXPENSES				362.64	
Implements Tractors Harvesters 1/2-mi Pivot Irr.	acre acre acre acre	5.75 5.19 15.93 40.89	1.0000 1.0000 1.0000 1.0000	5.75 5.19 15.93 40.89	
TOTAL FIXED EXPENSES				67.76	
TOTAL SPECIFIED EXPENSES				430.40	

Table 11.B Summary of estimated costs and returns per acre Soybeans, double crop after wheat, RR2X, 12R 30" Pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2021

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	9.67	50.0000	483.50	
TOTAL INCOME				483.50	
DIRECT EXPENSES					
CUSTOM SPRAY	acre	28.00	1.0000	28.00	
FERTILIZERS	acre	44.47	1.0000	44.47	
FUNGICIDES	acre	27.33	1.0000	27.33	
HERBICIDES	acre	48.70	1.0000	48.70	
INSECTICIDES	acre	33.53	1.0000	33.53	
SEED/PLANTS	acre	67.00	1.0000	67.00	
ADJUVANTS	acre	1.98	1.0000	1.98	
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	
HAULING	acre	13.50	1.0000	13.50	
CUSTOM LIME	acre	15.80	1.0000	15.80	
CROP CONSULTANT	acre	6.50	1.0000	6.50	
INOCULANT	acre	1.55	1.0000	1.55	
SOIL TEST	acre	3.33	1.0000	3.33	
HAND LABOR	hour	9.06	0.0817	0.74	
IRRIGATE LABOR	hour	9.06	0.0518	0.47	
OPERATOR LABOR	hour	14.68	0.2193	3.21	
UNALLOCATED LABOR	hour	14.68	0.1886	2.77	
DIESEL FUEL	gal	1.53	19.1560	29.31	
REPAIR & MAINTENANCE	acre	20.41	1.0000	20.41	
INTEREST ON OP. CAP.	acre	6.54	1.0000	6.54	
TOTAL DIRECT EXPENSES			•	362.64	
RETURNS ABOVE DIRECT EXE	PENSES			120.86	
TOTAL FIXED EXPENSES				67.76	
TOTAL SPECIFIED EXPENSES	S		•	430.40	
RETURNS ABOVE TOTAL SPEC		XPENSES		53.10	

Table 11.C Estimated resource use for field operations, per acre Soybeans, double crop after wheat, RR2X, 12R 30"
Pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2021

OPERATION/	SIZE/	POWER UNIT	PERF	TIMES		INPUT		POWER	ALLOC	UNALL
OPERATING INPUT	UNIT	SIZE	RATE	OVER	MTH	AMOUNT	IMPLEMENT	UNIT	LABOR	LABOR
								ho	urs	
Soil Test	acre			0.33	Nov	0.3330				
Lime (Spread)	ton			0.33	Nov	0.3330				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Phosphorus (46% P2O5)	cwt					0.8700				
Potash (60% K20)	cwt					1.3300				
Soybeans Consultant	acre			1.00	May	1.0000				
Plant & Pre-Folding	12R-30	MFWD 225	0.067	1.00	Jun		0.06	0.06	0.13	0.05
Soybean Seed RR2X	lb					50.0000				
CruiserMaxx Vibrance	e oz					1.6000				
Inoculant -Soybean	acre					1.0000				
Boundary	pt					2.0000				
Gramoxone SL 2.0	OZ					48.0000				
Surfactant	pt					0.4000				
Spray (Broadcast)	60 '	MFWD 225	0.028	1.00	Jul		0.02	0.02	0.04	0.02
Glyphosate 31bs a.e	OZ					32.0000				
Prefix	pt					2.0000				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Miravis Top	OZ				_	13.7000				
Surfactant	pt					0.1000				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Acephate 90SP	lb				- 3	0.7500				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Prevathon	OZ				5	14.0000				
Surfactant	pt					0.1000				
Bifenthrin	OZ					6.4000				
Incidental Pest				1.00	Sep					
App by Air (5 gal)	appl			1.00	JOP	1.0000				
IncidentalPestTrt \$8						1.0000				
Header -Soybean	25' Flex	265 hp	0.102	1.00	Oct	1.0000	0.10	0.10	0.10	0.08
Haul Soybeans	bu	200 110	3.102	1.00	500	50.0000	0.10	0.10	0.10	0.00
Grain Cart Soybean	700 bu	MFWD 225	0.021	1.00	Oct	50.0000	0.02	0.02	0.02	0.01
1/2-mi Pivot Irr.	acre	111110 220	3.021	1.00	Jul	1.0000	0.02	0.02	0.05	0.01
_, 11100 111.					5 4 2	1.0000				
TOTALS							0.21	0.21	0.35	0.18

Table 11.D Estimated costs for field operations, per acre Soybeans, double crop after wheat, RR2X, 12R 30" Pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2021

OPERATION/	SIZE/				DIRECT CO	OST			FIXED	TOTAL
OPERATING INPUT	UNIT	OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	COST	COST
					(	dollars-				
Soil Test	acre	3.33					0.13	3.46		3.46
Lime (Spread)	ton	15.80					0.63	16.43		16.43
Custom Apply Fert	acre	7.50					0.30	7.80		7.80
Phosphorus (46% P205)	cwt	15.06					0.60	15.66		15.66
Potash (60% K20)	cwt	29.41					1.18	30.59		30.59
Soybeans Consultant	acre	6.50					0.13	6.63		6.63
Plant & Pre-Folding	12R-30		1.20	2.55	2.45		0.10	6.30	6.79	13.09
Soybean Seed RR2X	lb	67.00					1.12	68.12		68.12
CruiserMaxx Vibrance	OZ	7.60					0.13	7.73		7.73
Inoculant -Soybean	acre	1.55					0.03	1.58		1.58
Boundary	pt	22.14					0.37	22.51		22.51
Gramoxone SL 2.0	ΟZ	9.12					0.15	9.27		9.27
Surfactant	pt	1.32					0.02	1.34		1.34
Spray (Broadcast)	60 ·		0.50	0.38	0.90		0.02	1.80	1.45	3.25
Glyphosate 31bs a.e	ΟZ	4.16					0.06	4.22		4.22
Prefix	pt	13.28					0.18	13.46		13.46
App by Air ( 5 gal)	appl	7.00					0.07	7.07		7.07
Miravis Top	OZ	19.73					0.20	19.93		19.93
Surfactant	pt	0.33						0.33		0.33
App by Air (5 gal)	appl	7.00					0.07	7.07		7.07
Acephate 90SP	lb	4.81					0.05	4.86		4.86
App by Air (5 gal)	appl	7.00					0.07	7.07		7.07
Prevathon	OZ	14.70					0.15	14.85		14.85
Surfactant	pt	0.33						0.33		0.33
Bifenthrin	OZ	6.02					0.06	6.08		6.08
Incidental Pest										
App by Air (5 gal)	appl	7.00					0.05	7.05		7.05
IncidentalPestTrt \$8		8.00					0.05	8.05		8.05
Header -Soybean	25' Flex		2.13	5.08	2.79		0.03	10.03	17.27	27.30
Haul Soybeans	bu	13.50					0.05	13.55		13.55
Grain Cart Soybean	700 bu	10.00	0.38	0.40	0.58		0.00	1.36	1.36	2.72
1/2-mi Pivot Irr.	acre		25.10	12.00	0.47		0.54	38.11	40.89	79.00
TOTALS		299.19	29.31	20.41	7.19	0.00	6.54	362.64	67.76	430.40

Table 11.E Estimated monthly income and expense flows per acre Soybeans, double crop after wheat, RR2X, 12R 30" Pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2021

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
						dolla	ars					
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	483.50
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.00	7.00	0.00
FERTILIZERS	44.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.60	0.00	19.73	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31.26	17.44	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.53	8.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	67.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.32	0.00	0.66	0.00	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.50
CUSTOM LIME	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.55	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	0.00	0.00	0.00	0.00	0.34	2.49	0.95	0.04	0.00	3.37
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.73	10.54	7.53	0.00	2.51
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.96	1.29	0.68	0.00	5.48
INTEREST ON OP. CAP.	2.84	0.00	0.00	0.00	0.00	0.00	0.14	2.22	0.41	0.75	0.10	0.08
TOTAL DIRECT EXPENSES	73.94	0.00	0.00	0.00	0.00	0.00	6.98	135.13	30.63	75.92	15.10	24.94
NET INCOME	-73.94	0.00	0.00	0.00	0.00	0.00	-6.98	-135.13	-30.63	-75.92	-15.10	458.56
NET INCOME TO DATE	-73.94	-73.94	-73.94	-73.94	-73.94	-73.94	-80.92	-216.05	-246.68	-322.60	-337.70	120.86

<sup>\*</sup> Lease costs are based on hourly usage costs.

Table 11.F Estimated returns for various price/yield combinations, per acre Soybeans, double crop after wheat, RR2X, 12R 30"
Pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2021

								-PERCENT-					
PRODUCT			75	80	85	90	95	100	105 CE	110	115	120	125
Soybeans	3		7.25	7.73	8.21	8.70	9.18	9.67	10.15	10.63	11.12	11.60	12.08
PERCENT	YIELD	UNIT					d	ollars					
50	25.00	bu	-174 -242	-162 -230	-150 -218	-138 -206	-126 -193	-114 -181	-102 -169	-89 -157	-77 -145	-65 -133	-53 -121
60	30.00	bu	-139 -207	-125 -192	-110 -178	-96 -163	-81 -149	-67 -134	-52 -120	-38 -105	-23 -91	-9 -76	5 -62
70	35.00	bu	-104 -172	-87 -155	-70 -138	-53 -121	-37 -104	-20 -87	-3 -70	13 -54	30 -37	47 -20	64 -3
80	40.00	bu	-69 -137	-50 -118	-31 -98	-11 -79	7 -60	26 -40	46 -21	65 -2	84 17	104 36	123 55
90	45.00	bu	-34 -102	-13 -80	8 -59	30 -37	52 <b>-</b> 15	73 6	95 27	117 49	139 71	160 93	182 114
100	50.00	bu	-0 -67	24 -43	48 -19	72 4	96 28	120 53	145 77	169 101	193 125	217 149	241 173
110	55.00	bu	34 -32	61 -6	88 20	114 46	141 73	167 100	194 126	221 153	247 179	274 206	300 233
120	60.00	bu	69 2	98 31	127 60	156 89	185 118	214 147	243 176	272 205	301 234	330 263	359 292
130	65.00	bu	104 36	136 68	167 99	198 131	230 162	261 194	293 225	324 256	356 288	387 319	418 351
140	70.00	bu	139 71	173 105	207 139	241 173	274 207	308 241	342 274	376 308	410 342	444 376	478 410
150	75.00	bu	174 106	210 143	247 179	283 215	319 251	355 288	392 324	428 360	464 396	500 433	537 469

The top number in each cell is Returns Above Direct Expenses.

The bottom number in each cell is Returns Above Total Specified Expenses.

Only the product listed has been varied to calculate net returns.

Table 12.A Estimated costs per acre Soybeans, full-season, RR2X, April planted, 12R 30" Non-Delta Area, Mississippi, 2021

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	<del></del>
DIRECT EXPENSES CUSTOM SPRAY					
App by Air ( 5 gal)	appl	7.00	2.0000	14.00	
HARVEST AIDS Gramoxone SL	ΟZ	0.19	16.0000	3.04	
FERTILIZERS		15 01	0.6600	11 10	
Phosphorus (46% P205) Potash (60% K20)	cwt cwt	17.31 22.11	0.6600 1.0000	11.42 22.11	
FUNGICIDES CruiserMaxx Vibrance	ΟZ	4.75	1.6000	7.60	
HERBICIDES Glyphosate 31bs a.e	OZ	0.13	96.0000	12.48	
2,4-D Amine 4	pt	2.25	2.0000	4.50	
Boundary	pt	11.07	2.0000	22.14	
Gramoxone SL 2.0	ΟZ	0.19	48.0000	9.12	
Prefix	pt	6.64	2.0000	13.28	
INSECTICIDES Acephate 90SP	lb	6.42	0.7500	4.81	
SEED/PLANTS Soybean Seed RR2X	lb	1.34	50.0000	67.00	
ADJUVANTS Surfactant	pt	3.30	0.6000	1.98	
CUSTOM FERTILIZE Custom Apply Fert	acre	7.50	1.0000	7.50	
HAULING					
Haul Soybeans CUSTOM LIME	bu	0.27	43.0000	11.61	
Lime (Spread) CROP CONSULTANT	ton	47.45	0.3330	15.80	
Soybeans Consultant SOIL TEST	acre	6.50	1.0000	6.50	
Soil Test	acre	10.00	0.3330	3.33	
OPERATOR LABOR	1	14 60	0 0767	4 0 4	
Tractors Harvesters	hour hour	14.68 14.68	0.2767 0.1021	4.04 1.50	
HAND LABOR	HOUL	14.00	0.1021	1.50	<del></del>
Implements	hour	9.06	0.1051	0.96	
UNALLOCATED LABOR	hour	14.66	0.3410	5.00	
DIESEL FUEL	,	1 50	0.0054	4 01	
Tractors	gal	1.53	3.2054	4.91	
Harvesters REPAIR & MAINTENANCE	gal	1.53	1.3935	2.13	
Implements	acre	4.93	1.0000	4.93	
Tractors	acre	2.03	1.0000	2.03	
Harvesters	acre	4.16	1.0000	4.16	
INTEREST ON OP. CAP.	acre	6.02	1.0000	6.02	
TOTAL DIRECT EXPENSES				273.90	
FIXED EXPENSES Implements	acro	9.67	1.0000	9.67	
Tractors	acre acre	12.27	1.0000	12.27	
Harvesters	acre	15.93	1.0000	15.93	
TOTAL FIXED EXPENSES	-			37.87	
TOTAL SPECIFIED EXPENSES				311.77	

Table 12.B Summary of estimated costs and returns per acre Soybeans, full-season, RR2X, April planted, 12R 30" Non-Delta Area, Mississippi, 2021

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	9.67	43.0000	415.81	
TOTAL INCOME				415.81	
DIRECT EXPENSES					
CUSTOM SPRAY	acre	14.00	1.0000	14.00	
HARVEST AIDS	acre	3.04	1.0000	3.04	
FERTILIZERS	acre	33.53	1.0000	33.53	
FUNGICIDES	acre	7.60	1.0000	7.60	
HERBICIDES	acre	61.52	1.0000	61.52	
INSECTICIDES	acre	4.81	1.0000	4.81	
SEED/PLANTS	acre	67.00	1.0000	67.00	
ADJUVANTS	acre	1.98	1.0000	1.98	
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	
HAULING	acre	11.61	1.0000	11.61	
CUSTOM LIME	acre	15.80	1.0000	15.80	
CROP CONSULTANT	acre	6.50	1.0000	6.50	
SOIL TEST	acre	3.33	1.0000	3.33	
HAND LABOR	hour		0.1051	0.96	
OPERATOR LABOR	hour	14.68	0.3789	5.54	
UNALLOCATED LABOR	hour	14.66	0.3410		
DIESEL FUEL	gal				
REPAIR & MAINTENANCE			1.0000	11.12	
INTEREST ON OP. CAP.	acre	6.02	1.0000	6.02	
TOTAL DIRECT EXPENSES				273.90	
RETURNS ABOVE DIRECT EXF	ENSES			141.91	
TOTAL FIXED EXPENSES				37.87	
TOTAL SPECIFIED EXPENSES	}			311.77	
RETURNS ABOVE TOTAL SPEC	IFIED	EXPENSES		104.04	

Table 12.C Estimated resource use for field operations, per acre Soybeans, full-season, RR2X, April planted, 12R 30"
Non-Delta Area, Mississippi, 2021

OPERATION/	SIZE/	POWER UNIT		TIMES		INPUT		POWER	ALLOC	UNALL
OPERATING INPUT	UNIT	SIZE	RATE	OVER	MTH	AMOUNT	IMPLEMENT	UNIT	LABOR	LABOR
								ho	urs	
Soil Test	acre			0.33	Oct	0.3330				
Lime (Spread)	ton			0.33	Oct	0.3330				
Custom Apply Fert Phosphorus (46% P205)				1.00	Oct	1.0000				
Potash (60% K20)	cwt	14777D 005	0 0 6 1	1 00		1.0000	0.06	0 06	0.06	0 05
Disk Harrow	32'	MFWD 225	0.061		Oct		0.06	0.06	0.06	0.05
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	Oct	1 0000	0.04	0.04	0.04	0.04
App by Air (5 gal)	appl			1.00	Mar	1.0000				
Glyphosate 31bs a.e	OZ					32.0000				
2,4-D Amine 4	pt	MEMB OOF	0 000	1 00	7	2.0000	0.06	0 00	0 10	0.05
Plant - Folding	12R-30 lb	MFWD 225	0.062	1.00	Apr	EO 0000	0.06	0.06	0.12	0.05
Soybean Seed RR2X						50.0000				
CruiserMaxx Vibrance						1.6000				
Boundary	pt					2.0000				
Gramoxone SL 2.0 Surfactant	OZ					48.0000				
	pt 60'	MEMB OOF	0 000	1 00	Marr	0.4000	0.02	0.02	0.04	0.02
Spray (Broadcast)		MFWD 225	0.028	1.00	May	32.0000	0.02	0.02	0.04	0.02
Glyphosate 31bs a.e Prefix	OZ									
	pt			1 00	Marr	2.0000				
Soybeans Consultant	acre 60'	MENTE OOF	0 000	1.00	May	1.0000	0.00	0 00	0 04	0.02
Spray (Broadcast)		MFWD 225	0.028	1.00	May	20 0000	0.02	0.02	0.04	0.02
Glyphosate 31bs a.e	oz 60'	MENTE OOF	0 000	1 00		32.0000	0.02	0 00	0 04	0 00
Spray (Broadcast)		MFWD 225	0.028	1.00	Aug	0 7500	0.02	0.02	0.04	0.02
Acephate 90SP	lb			1 00		0.7500				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Gramoxone SL	OZ					16.0000				
Surfactant	pt	0.65		4 00	_	0.2000	0.40			
Header -Soybean	25' Flex	265 hp	0.102	1.00	Sep	40.0000	0.10	0.10	0.10	0.09
Haul Soybeans	bu					43.0000				
Grain Cart Soybean	700 bu	MFWD 225	0.021	1.00	Sep		0.02	0.02	0.02	0.01
TOTALS							0.37	0.37	0.48	0.34

Table 12.D Estimated costs for field operations, per acre Soybeans, full-season, RR2X, April planted, 12R 30" Non-Delta Area, Mississippi, 2021

OPERATION/	SIZE/				DIRECT CO	OST			FIXED	TOTAL
OPERATING INPUT	UNIT	OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	COST	COST
					(	dollars-				
Soil Test	acre	3.33					0.13	3.46		3.46
Lime (Spread)	ton	15.80					0.63	16.43		16.43
Custom Apply Fert	acre	7.50					0.30	7.80		7.80
Phosphorus (46% P2O5)	cwt	11.42					0.46	11.88		11.88
Potash (60% K20)	cwt	22.11					0.88	22.99		22.99
Disk Harrow	32'		1.09	1.50	1.71		0.17	4.47	4.85	9.32
Field Cultivate Fld	32'		0.83	0.85	1.30		0.12	3.10	4.14	7.24
App by Air ( 5 gal)	appl	7.00					0.16	7.16		7.16
Glyphosate 31bs a.e	OZ	4.16					0.10	4.26		4.26
2,4-D Amine 4	pt	4.50					0.11	4.61		4.61
Plant - Folding	12R-30		1.11	2.15	2.32		0.11	5.69	5.90	11.59
Soybean Seed RR2X	lb	67.00					1.34	68.34		68.34
CruiserMaxx Vibrance	e oz	7.60					0.15	7.75		7.75
Boundary	pt	22.14					0.44	22.58		22.58
Gramoxone SL 2.0	ΟZ	9.12					0.18	9.30		9.30
Surfactant	pt	1.32					0.03	1.35		1.35
Spray (Broadcast)	60 <b>'</b>		0.50	0.38	0.91		0.03	1.82	1.45	3.27
Glyphosate 31bs a.e	OZ	4.16					0.07	4.23		4.23
Prefix	pt	13.28					0.22	13.50		13.50
Soybeans Consultant	acre	6.50					0.11	6.61		6.61
Spray (Broadcast)	60'		0.50	0.38	0.91		0.03	1.82	1.45	3.27
Glyphosate 31bs a.e	OZ	4.16					0.07	4.23		4.23
Spray (Broadcast)	60'		0.50	0.38	0.91		0.01	1.80	1.45	3.25
Acephate 90SP	lb	4.81					0.03	4.84		4.84
App by Air (5 gal)	appl	7.00					0.05	7.05		7.05
Gramoxone SL	OZ	3.04					0.02	3.06		3.06
Surfactant	pt	0.66						0.66		0.66
Header -Soybean	25' Flex		2.13	5.08	2.85		0.03	10.09	17.27	27.36
Haul Soybeans	bu	11.61					0.04	11.65		11.65
Grain Cart Soybean	700 bu		0.38	0.40	0.59			1.37	1.36	2.73
TOTALS		238.22	7.04	11.12	11.50	0.00	6.02	273.90	37.87	311.77

Table 12.E Estimated monthly income and expense flows per acre Soybeans, full-season, RR2X, April planted, 12R 30"
Non-Delta Area, Mississippi, 2021

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
						doll	ars					
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	415.81
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00	7.00	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.04	0.00
FERTILIZERS	33.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	7.60	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	8.66	31.26	21.60	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.81	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	67.00	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.66	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.61
CUSTOM LIME	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	3.01	0.00	0.00	0.00	0.00	0.00	2.32	1.82	0.00	0.00	0.91	3.44
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	1.92	0.00	0.00	0.00	0.00	0.00	1.11	1.00	0.00	0.00	0.50	2.51
REPAIR & MAINTENANCE	2.35	0.00	0.00	0.00	0.00	0.00	2.15	0.76	0.00	0.00	0.38	5.48
INTEREST ON OP. CAP.	2.69	0.00	0.00	0.00	0.00	0.37	2.25	0.53	0.00	0.00	0.11	0.07
TOTAL DIRECT EXPENSES	70.13	0.00	0.00	0.00	0.00	16.03	115.01	32.21	0.00	0.00	17.41	23.11
NET INCOME	-70.13	0.00	0.00	0.00	0.00	-16.03	-115.01	-32.21	0.00	0.00	-17.41	392.70
NET INCOME TO DATE	-70.13	-70.13	-70.13	-70.13	-70.13	-86.16	-201.17	-233.38	-233.38	-233.38	-250.79	141.91

<sup>\*</sup> Lease costs are based on hourly usage costs.

Table 12.F Estimated returns for various price/yield combinations, per acre Soybeans, full-season, RR2X, April planted, 12R 30" Non-Delta Area, Mississippi, 2021

		-						-PERCENT-					
PRODUCT			75	80	85	90	95	100	105 CE	110	115	120	125
Soybeans	3		7.25	7.73	8.21	8.70	9.18	9.67	10.15	10.63	11.12	11.60	12.08
PERCENT	YIELD	UNIT -					d	ollars					
50	21.50	bu	-112 -150	-101 -139	-91 -129	-80 -118	-70 -108	-60 -98	-49 -87	-39 -77	-28 -66	-18 -56	-8 -46
60	25.80	bu	-82 -119	-69 -107	-57 -95	-44 -82	-32 -70	-19 -57	-7 -45	5 -32	17 -20	30 -7	42
70	30.10	bu	-52 -89	-37 -75	-22 -60	-8 -46	6 -31	20 -17	35 -2	49 11	64 26	78 41	93 55
80	34.40	bu	-22 -59	-5 -43	11 -26	27 -10	44 6	61 23	77 39	94 56	110 73	127 89	144 106
90	38.70	bu	7 -29	26 -11	45 7	64 26	82 44	101 63	120 82	138 101	157 119	176 138	195 157
100	43.00	bu	37 0	58 20	79 41	100 62	121 83	141 104	162 124	183 145	204 166	225 187	245 207
110	47.30	bu	67 30	90 52	113 75	136 98	159 121	182 144	205 167	228 190	250 213	273 235	296 258
120	51.60	bu	97 60	122 85	147 110	172 134	197 159	222 184	247 209	272 234	297 259	322 284	347 309
130	55.90	bu	128 90	155 117	182 144	209 171	236 198	263 225	290 252	317 279	344 306	371 333	398 360
140	60.20	bu	158 120	187 149	216 178	245 207	274 236	303 265	332 294	361 323	390 353	420 382	449 411
150	64.50	bu	188 150	219 181	250 212	281 243	312 274	343 306	375 337	406 368	437 399	468 430	499 462

The top number in each cell is Returns Above Direct Expenses.

The bottom number in each cell is Returns Above Total Specified Expenses.

Only the product listed has been varied to calculate net returns. Note: Cost of production estimates are based on 2020 input prices.

Table 13.A Estimated costs per acre Soybeans, full-season, RR2X, May planted, 12R 30" Non-Delta Area, Mississippi, 2021

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES CUSTOM SPRAY					
App by Air (5 gal)	appl	7.00	1.0000	7.00	
HARVEST AIDS	OZ	0.19	16.0000	3.04	
Gramoxone SL FERTILIZERS	02	0.19	10.0000	3.04	
Phosphorus (46% P205)		17.31	0.6600	11.42	
Potash (60% K20) FUNGICIDES	cwt	22.11	1.0000	22.11	
CruiserMaxx Vibrance HERBICIDES	ΟZ	4.75	1.6000	7.60	
Glyphosate 31bs a.e	OZ	0.13	96.0000	12.48	
Select Max Fierce	pt oz	12.74 7.40	1.0000 3.5000	12.74 25.90	
Gramoxone SL 2.0	OZ	0.19	96.0000	18.24	
Boundary	pt	11.07	2.0000	22.14	
Prefix INSECTICIDES	pt	6.64	2.0000	13.28	
Dimilin 2L	OZ	2.16	1.0000	2.16	
Baythroid XL SEED/PLANTS	ΟZ	2.38	1.0650	2.53	
Soybean Seed RR2X	lb	1.34	50.0000	67.00	
ADJUVANTS Surfactant	pt	3.30	1.4500	4.79	
CUSTOM FERTILIZE Custom Apply Fert	acre	7.50	1.0000	7.50	
HAULING					
Haul Soybeans CUSTOM LIME	bu	0.27	40.0000	10.80	
Lime (Spread) CROP CONSULTANT	ton	47.45	0.3330	15.80	
Soybeans Consultant SOIL TEST	acre	6.50	1.0000	6.50	
Soil Test	acre	10.00	0.3330	3.33	
OPERATOR LABOR Tractors	hour	14.68	0.4189	6.13	
Harvesters	hour	14.68	0.1021	1.50	
HAND LABOR Implements	hour	9.06	0.1382	1.25	
UNALLOCATED LABOR	hour	14.67	0.4689	6.88	
DIESEL FUEL Tractors	gal	1.53	4.8515	7.43	
Harvesters	gal	1.53	1.3935	2.13	
REPAIR & MAINTENANCE	2000	6.41	1.0000	6.41	
Implements Tractors	acre acre	3.06	1.0000	3.06	
Harvesters	acre	4.16	1.0000	4.16	
INTEREST ON OP. CAP.	acre	5.64	1.0000	5.64	
TOTAL DIRECT EXPENSES FIXED EXPENSES				320.95	
Implements	acre	12.70	1.0000	12.70	
Tractors Harvesters	acre acre	18.58 15.93	1.0000	18.58 15.93	
Hat Aescers	acre	10.93	1.0000		
TOTAL FIXED EXPENSES				47.21	
TOTAL SPECIFIED EXPENSES				368.16	

Table 13.B Summary of estimated costs and returns per acre Soybeans, full-season, RR2X, May planted, 12R 30" Non-Delta Area, Mississippi, 2021

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	<del></del>
INCOME					
Soybeans	bu	9.67	40.0000	386.80	
TOTAL INCOME				386.80	
DIRECT EXPENSES					
CUSTOM SPRAY	acre	7.00	1.0000	7.00	
HARVEST AIDS	acre	3.04	1.0000	3.04	
FERTILIZERS	acre	33.53	1.0000	33.53	
FUNGICIDES	acre	7.60	1.0000	7.60	
HERBICIDES	acre	104.78	1.0000	104.78	
INSECTICIDES	acre	4.69	1.0000	4.69	
SEED/PLANTS	acre	67.00	1.0000	67.00	
ADJUVANTS	acre	4.79	1.0000	4.79	
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	
HAULING	acre	10.80	1.0000	10.80	
CUSTOM LIME	acre	15.80	1.0000	15.80	
CROP CONSULTANT	acre	6.50	1.0000	6.50	
SOIL TEST	acre	3.33	1.0000	3.33	
HAND LABOR	hour			1.25	
OPERATOR LABOR	hour	14.68	0.5210	7.63	
UNALLOCATED LABOR	hour	14.67	0.4689	6.88	
DIESEL FUEL	gal	1.53		9.56	
REPAIR & MAINTENANCE			1.0000	13.63	
INTEREST ON OP. CAP.	acre	5.64	1.0000	5.64	
TOTAL DIRECT EXPENSES				320.95	
RETURNS ABOVE DIRECT EXP	ENSES			65.85	
TOTAL FIXED EXPENSES				47.21	
TOTAL SPECIFIED EXPENSES				368.16	
RETURNS ABOVE TOTAL SPEC	IFIED	EXPENSES		18.64	

Table 13.C Estimated resource use for field operations, per acre Soybeans, full-season, RR2X, May planted, 12R 30"
Non-Delta Area, Mississippi, 2021

OPERATION/	SIZE/	POWER UNIT	PERF	TIMES		INPUT		POWER	ALLOC	UNALL
OPERATING INPUT	UNIT	SIZE	RATE	OVER	MTH	AMOUNT	IMPLEMENT	UNIT	LABOR	LABOR
								hoi	ırs	
Soil Test	acre			0.33	Oct	0.3330				
Lime (Spread)	ton			0.33	Oct	0.3330				
Disk Harrow	32'	MFWD 225	0.061	1.00	Oct		0.06	0.06	0.06	0.05
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	Oct		0.04	0.04	0.04	0.04
Bed/Lister-Roll-Fo	12R-30	MFWD 225	0.080	1.00	Oct		0.08	0.08	0.08	0.07
Spray (Broadcast)	60'	MFWD 225	0.028	1.00	Feb		0.02	0.02	0.04	0.02
Glyphosate 31bs a.e	OZ					32.0000				
Select Max	pt					1.0000				
Surfactant	pt					0.4000				
Custom Apply Fert	acre			1.00	Apr	1.0000				
Phosphorus (46% P205)				1.00	1101	0.6600				
Potash (60% K20)	cwt					1.0000				
Spray (Broadcast)	60'	MFWD 225	0.028	1.00	Apr	1.0000	0.02	0.02	0.04	0.02
Fierce	OZ	THE WD 225	0.020	1.00	1101	3.5000	0.02	0.02	0.04	0.02
Gramoxone SL 2.0	OZ					48.0000				
Surfactant	pt					0.4000				
Soybeans Consultant	acre			1.00	Mav	1.0000				
Plant & Pre-Folding	12R-30	MFWD 225	0.067	1.00	Mav	1.0000	0.06	0.06	0.13	0.06
Soybean Seed RR2X	121( 30	THE WD 225	0.007	1.00	ray	50.0000	0.00	0.00	0.13	0.00
CruiserMaxx Vibrance						1.6000				
Boundary	pt					2.0000				
Gramoxone SL 2.0	pc oz					48.0000				
Surfactant						0.4000				
Spray (Broadcast)	pt 60'	MFWD 225	0.028	1.00	Mav	0.4000	0.02	0.02	0.04	0.02
		MFWD 223	0.020	1.00	мау	32.0000	0.02	0.02	0.04	0.02
Glyphosate 31bs a.e Prefix	OZ									
	pt 60'	MENT OOF	0 000	1 00	÷ .	2.0000	0.00	0 00	0 04	0 00
Spray (Broadcast)		MFWD 225	0.028	1.00	Jun	20 0000	0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e	OZ	MENT OF	0 000	0 50	<b>-</b> 1	32.0000	0 01	0 01	0 00	0 01
Spray (Broadcast)	60 <b>'</b>	MFWD 225	0.028	0.50	Jul	4 0000	0.01	0.01	0.02	0.01
Dimilin 2L	ΟZ					1.0000				
Surfactant	pt					0.0500				
Spray (Broadcast)	60'	MFWD 225	0.028	0.50	Aug		0.01	0.01	0.02	0.01
Baythroid XL	ΟZ					1.0650				
App by Air ( 5 gal)	appl			1.00	Sep	1.0000				
Gramoxone SL	OZ					16.0000				
Surfactant	pt					0.2000				
Header -Soybean	25' Flex	265 hp	0.102	1.00	Oct		0.10	0.10	0.10	0.09
Haul Soybeans	bu					40.0000				
Consider Constant	700 bu	MFWD 225	0.021	1.00	Oct		0.02	0.02	0.02	0.01
Grain Cart Soybean	,00 24									

Table 13.D Estimated costs for field operations, per acre Soybeans, full-season, RR2X, May planted, 12R 30" Non-Delta Area, Mississippi, 2021

OPERATION/	SIZE/				DIRECT CO	OST			FIXED	TOTAL
OPERATING INPUT	UNIT	OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	COST	COST
						dollars-				
Soil Test	acre	3.33					0.01	3.34		3.34
Lime (Spread)	ton	15.80					0.05	15.85		15.85
Disk Harrow	32 <b>'</b>		1.09	1.50	1.71		0.01	4.31	4.85	9.16
Field Cultivate Fld	32 <b>'</b>		0.83	0.85	1.30		0.01	2.99	4.14	7.13
Bed/Lister-Roll-Fo	12R-30		1.43	1.35	2.26		0.02	5.06	5.54	10.60
Spray (Broadcast)	60'		0.50	0.38	0.91		0.05	1.84	1.45	3.29
Glyphosate 31bs a.e	ΟZ	4.16					0.12	4.28		4.28
Select Max	pt	12.74					0.38	13.12		13.12
Surfactant	pt	1.32					0.04	1.36		1.36
Custom Apply Fert	acre	7.50					0.18	7.68		7.68
Phosphorus (46% P205)		11.42					0.27	11.69		11.69
Potash (60% K20)	cwt	22.11					0.52	22.63		22.63
Spray (Broadcast)	60 <b>'</b>		0.50	0.38	0.91		0.04	1.83	1.45	3.28
Fierce	OZ	25.90	0.00	0.00	0.01		0.60	26.50	1.10	26.50
Gramoxone SL 2.0	OZ	9.12					0.21	9.33		9.33
Surfactant	pt	1.32					0.03	1.35		1.35
Soybeans Consultant	acre	6.50					0.13	6.63		6.63
Plant & Pre-Folding	12R-30	0.00	1.20	2.55	2.49		0.12	6.36	6.79	13.15
Soybean Seed RR2X	lb	67.00	1.20	2.00	2.19		1.34	68.34	0.75	68.34
CruiserMaxx Vibrance		7.60					0.15	7.75		7.75
Boundary	pt	22.14					0.44	22.58		22.58
Gramoxone SL 2.0	oz Oz	9.12					0.18	9.30		9.30
Surfactant	pt	1.32					0.03	1.35		1.35
Spray (Broadcast)	60 <b>'</b>	1.52	0.50	0.38	0.91		0.03	1.83	1.45	3.28
Glyphosate 31bs a.e	OZ	4.16	0.50	0.50	0.51		0.04	4.24	1.45	4.24
Prefix		13.28					0.00	13.55		13.55
Spray (Broadcast)	pt 60'	13.20	0.50	0.38	0.91		0.27	1.82	1.45	3.27
Glyphosate 31bs a.e	OZ	4.16	0.30	0.30	0.91		0.03	4.23	1.45	4.23
	60 <b>'</b>	4.10	0.25	0.19	0.46		0.07	0.91	0.73	1.64
Spray (Broadcast)		0.16	0.25	0.19	0.46				0.73	
Dimilin 2L	OZ	2.16					0.03	2.19		2.19
Surfactant	pt	0.17	0.05	0 10	0.46		0 01	0.17	0 70	0.17
Spray (Broadcast)	60 <b>'</b>	0 50	0.25	0.19	0.46		0.01	0.91	0.73	1.64
Baythroid XL	OZ	2.53					0.03	2.56		2.56
App by Air (5 gal)	appl	7.00					0.05	7.05		7.05
Gramoxone SL	OZ	3.04					0.02	3.06		3.06
Surfactant	pt	0.66						0.66		0.66
Header -Soybean	25' Flex		2.13	5.08	2.85		0.03	10.09	17.27	27.36
Haul Soybeans	bu	10.80					0.04	10.84		10.84
Grain Cart Soybean	700 bu		0.38	0.40	0.59			1.37	1.36	2.73
TOTALS		276.36	9.56	13.63	15.76	0.00	5.64	320.95	47.21	368.16

Table 13.E Estimated monthly income and expense flows per acre Soybeans, full-season, RR2X, May planted, 12R 30"
Non-Delta Area, Mississippi, 2021

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
						doll	ars					
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	386.80
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.00	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.04	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	33.53	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	7.60	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	16.90	0.00	35.02	48.70	4.16	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.16	2.53	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	67.00	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	1.32	0.00	1.32	1.32	0.00	0.17	0.00	0.66	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	7.50	0.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.80
CUSTOM LIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.80
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00	0.00
SOIL TEST	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.33
LABOR	0.00	0.00	0.00	0.91	0.00	0.91	3.40	0.91	0.46	0.46	0.00	8.71
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	0.00	0.50	0.00	0.50	1.70	0.50	0.25	0.25	0.00	5.86
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.38	0.00	0.38	2.93	0.38	0.19	0.19	0.00	9.18
INTEREST ON OP. CAP.	0.00	0.00	0.00	0.59	0.00	1.85	2.78	0.10	0.04	0.04	0.07	0.17
TOTAL DIRECT EXPENSES	0.00	0.00	0.00	20.60	0.00	81.01	141.93	6.05	3.27	3.47	10.77	53.85
NET INCOME	0.00	0.00	0.00	-20.60	0.00	-81.01	-141.93	-6.05	-3.27	-3.47	-10.77	332.95
NET INCOME TO DATE	0.00	0.00	0.00	-20.60	-20.60	-101.61	-243.54	-249.59	-252.86	-256.33	-267.10	65.85

<sup>\*</sup> Lease costs are based on hourly usage costs.

Table 13.F Estimated returns for various price/yield combinations, per acre Soybeans, full-season, RR2X, May planted, 12R 30"
Non-Delta Area, Mississippi, 2021

								-PERCENT-					
PRODUCT			75	80	85	90	95 BB	100	105 CE	110	115	120	125
Soybeans	3		7.25	7.73	8.21	8.70	9.18	9.67	10.15	10.63	11.12	11.60	12.08
PERCENT	YIELD	UNIT					d	ollars					
50	20.00	bu	-170 -217	-160 -208	-151 -198	-141 -188	-131 -179	-122 -169	-112 -159	-102 -150	-93 -140	-83 -130	-73 -120
60	24.00	bu	-142 -189	-130 -178	-119 -166	-107 -154	-96 -143	-84 -131	-72 -120	-61 -108	-49 -96	-38 -85	-26 -73
70	28.00	bu	-114 -161	-101 -148	-87 -134	-74 -121	-60 -107	-46 -94	-33 -80	-19 -67	-6 -53	7 -39	20 -26
80	32.00	bu	-86 -133	-71 -118	-55 -102	-40 -87	-24 -72	-9 -56	6 -41	21 -25	37 -10	52 5	68 20
90	36.00	bu	-58 -105	-41 -88	-23 -71	-6 -53	10 -36	28 -18	45 -1	63 15	80 33	97 50	115 68
100	40.00	bu	-30 -78	-11 -58	7 -39	27 -20	46 -0	65 18	85 37	104 57	123 76	143 96	162 115
110	44.00	bu	-2 -50	18 -28	39 -7	60 13	82 34	103 56	124 77	145 98	167 120	188 141	209 162
120	48.00	bu	25 -22	48 1	71 24	94 47	117 70	141 93	164 117	187 140	210 163	233 186	257 209
130	52.00	bu	52 5	78 30	103 56	128 81	153 106	178 131	203 156	228 181	254 206	279 231	304 257
140	56.00	bu	80 33	107 60	135 87	162 114	189 141	216 169	243 196	270 223	297 250	324 277	351 304
150	60.00	bu	108 61	137 90	166 119	195 148	224 177	253 206	282 235	311 264	340 293	369 322	398 351

The top number in each cell is Returns Above Direct Expenses.

The bottom number in each cell is Returns Above Total Specified Expenses.

Only the product listed has been varied to calculate net returns.

Table 14.A Estimated costs per acre
Soybeans, double crop after wheat, RR2X, 12R 30"
Non-irrigated, All Areas, Mississippi, 2021

DIRECT EXPENSES					
		dollars		dollars	
CUSTOM SPRAY					
App by Air ( 5 gal)	appl	7.00	3.0000	21.00	
Phosphorus (46% P205	) cwt cwt	17.31 22.11	0.8700 1.3300	15.06 29.41	
Potash (60% K20) FUNGICIDES	CWL	22.11	1.3300	29.41	
CruiserMaxx Vibranc HERBICIDES	e oz	4.75	1.6000	7.60	
Boundary	pt	11.07	2.0000	22.14	
Gramoxone SL 2.0	OZ	0.19	48.0000	9.12	
Glyphosate 31bs a.e Prefix	oz pt	0.13 6.64	32.0000 2.0000	4.16 13.28	
INSECTICIDES	РС	0.01	2.0000	13.20	
Acephate 90SP	lb	6.42	0.7500	4.81	
Prevathon	OZ	1.05	14.0000	14.70	
Bifenthrin IncidentalPestTrt \$	oz 8 acre	0.94 8.00	6.4000 1.0000	6.02 8.00	
SEED/PLANTS Soybean Seed RR2X	lb	1.34	50.0000	67.00	
ADJUVANTS Surfactant	pt	3.30	0.5000	1.65	
CUSTOM FERTILIZE Custom Apply Fert	acre	7.50	1.0000	7.50	
HAULING					
Haul Soybeans CUSTOM LIME	bu	0.27	25.0000	6.75	
Lime (Spread) CROP CONSULTANT	ton	47.45	0.3330	15.80	
Soybeans Consultant	acre	6.50	1.0000	6.50	
INOCULANT Inoculant -Soybean	acre	1.55	1.0000	1.55	
SOIL TEST Soil Test	acre	10.00	0.3330	3.33	
OPERATOR LABOR Tractors	hour	14.68	0.1171	1.71	
Harvesters	hour	14.68	0.1021	1.50	
HAND LABOR					
Implements UNALLOCATED LABOR	hour hour	9.06 14.68	0.0817 0.1886	0.74 2.77	
DIESEL FUEL Tractors	gal	1.53	1.3567	2.08	
Harvesters	gal	1.53	1.3935	2.13	
REPAIR & MAINTENANCE		2 40	1 0000	2 40	
Implements Tractors	acre acre	3.40 0.85	1.0000	3.40 0.85	
Harvesters	acre	4.16	1.0000	4.16	
INTEREST ON OP. CAP.	acre	5.70	1.0000	5.70	
TOTAL DIRECT EXPENSES				290.42	
FIXED EXPENSES Implements	acre	5.75	1.0000	5.75	
Tractors	acre	5.19	1.0000	5.19	
Harvesters	acre	15.93	1.0000	15.93	
TOTAL FIXED EXPENSES				26.87	
TOTAL SPECIFIED EXPENSE	S			317.29	

Table 14.B Summary of estimated costs and returns per acre Soybeans, double crop after wheat, RR2X, 12R 30" Non-irrigated, All Areas, Mississippi, 2021

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	9.67	25.0000	241.75	
TOTAL INCOME				241.75	
DIRECT EXPENSES					
CUSTOM SPRAY	acre	21.00	1.0000	21.00	
FERTILIZERS	acre	44.47	1.0000	44.47	
FUNGICIDES	acre	7.60	1.0000	7.60	
HERBICIDES	acre	48.70	1.0000	48.70	
INSECTICIDES	acre	33.53	1.0000	33.53	
SEED/PLANTS	acre	67.00	1.0000	67.00	
ADJUVANTS	acre	1.65	1.0000	1.65	
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	
HAULING	acre	6.75	1.0000	6.75	
CUSTOM LIME	acre	15.80	1.0000	15.80	
CROP CONSULTANT	acre	6.50	1.0000	6.50	
INOCULANT	acre	1.55	1.0000	1.55	
SOIL TEST	acre	3.33	1.0000	3.33	
HAND LABOR	hour	9.06	0.0817	0.74	
OPERATOR LABOR	hour	14.68	0.2193	3.21	
UNALLOCATED LABOR	hour	14.68	0.1886	2.77	
DIESEL FUEL	gal	1.53	2.7503	4.21	
REPAIR & MAINTENANCE	acre	8.41	1.0000	8.41	
INTEREST ON OP. CAP.	acre	5.70	1.0000	5.70	
TOTAL DIRECT EXPENSES			•	290.42	
RETURNS ABOVE DIRECT EXP	ENSES			-48.67	
TOTAL FIXED EXPENSES				26.87	
TOTAL SPECIFIED EXPENSES			-	317.29	
RETURNS ABOVE TOTAL SPEC	IFIED E	XPENSES		-75.54	

Table 14.C Estimated resource use for field operations, per acre Soybeans, double crop after wheat, RR2X, 12R 30" Non-irrigated, All Areas, Mississippi, 2021

OPERATION/	SIZE/	POWER UNIT	PERF	TIMES		INPUT		POWER	ALLOC	UNALL
OPERATING INPUT	UNIT	SIZE	RATE	OVER	MTH	AMOUNT	IMPLEMENT	UNIT	LABOR	LABOR
								ho	urs	
Soil Test	acre			0.33	Nov	0.3330				
Lime (Spread)	ton			0.33	Nov	0.3330				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Phosphorus (46% P205)	cwt					0.8700				
Potash (60% K20)	cwt					1.3300				
Soybeans Consultant	acre			1.00	May	1.0000				
Plant & Pre-Folding	12R-30	MFWD 225	0.067	1.00	Jun		0.06	0.06	0.13	0.05
Soybean Seed RR2X	lb					50.0000				
CruiserMaxx Vibrance	OZ					1.6000				
Inoculant -Soybean	acre					1.0000				
Boundary	pt					2.0000				
Gramoxone SL 2.0	ΟZ					48.0000				
Surfactant	pt					0.4000				
Spray (Broadcast)	60 <b>'</b>	MFWD 225	0.028	1.00	Jul		0.02	0.02	0.04	0.02
Glyphosate 31bs a.e	OZ					32.0000				
Prefix	pt					2.0000				
App by Air ( 5 gal)	appl			1.00	Aug	1.0000				
Acephate 90SP	lb				_	0.7500				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Prevathon	OZ				_	14.0000				
Surfactant	pt					0.1000				
Bifenthrin	OZ					6.4000				
Incidental Pest				1.00	Sep					
App by Air ( 5 gal)	appl				-	1.0000				
IncidentalPestTrt \$8	acre					1.0000				
Header -Soybean	25' Flex	265 hp	0.102	1.00	Oct		0.10	0.10	0.10	0.08
Haul Soybeans	bu	-				25.0000				
Grain Cart Soybean	700 bu	MFWD 225	0.021	1.00	Oct		0.02	0.02	0.02	0.01
TOTALS							0.21	0.21	0.30	0.18

Table 14.D Estimated costs for field operations, per acre Soybeans, double crop after wheat, RR2X, 12R 30" Non-irrigated, All Areas, Mississippi, 2021

OPERATION/	SIZE/			]	DIRECT CO	OST			FIXED	TOTAL
OPERATING INPUT	UNIT	OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	COST	COST
						dollars-				
Soil Test	acre	3.33					0.13	3.46		3.46
Lime (Spread)	ton	15.80					0.63	16.43		16.43
Custom Apply Fert	acre	7.50					0.30	7.80		7.80
Phosphorus (46% P205)	cwt	15.06					0.60	15.66		15.66
Potash (60% K20)	cwt	29.41					1.18	30.59		30.59
Soybeans Consultant	acre	6.50					0.13	6.63		6.63
Plant & Pre-Folding	12R-30		1.20	2.55	2.45		0.10	6.30	6.79	13.09
Soybean Seed RR2X	lb	67.00					1.12	68.12		68.12
CruiserMaxx Vibrance	ΟZ	7.60					0.13	7.73		7.73
Inoculant -Soybean	acre	1.55					0.03	1.58		1.58
Boundary	pt	22.14					0.37	22.51		22.51
Gramoxone SL 2.0	ΟZ	9.12					0.15	9.27		9.27
Surfactant	pt	1.32					0.02	1.34		1.34
Spray (Broadcast)	60'		0.50	0.38	0.90		0.02	1.80	1.45	3.25
Glyphosate 31bs a.e	ΟZ	4.16					0.06	4.22		4.22
Prefix	pt	13.28					0.18	13.46		13.46
App by Air ( 5 gal)	appl	7.00					0.07	7.07		7.07
Acephate 90SP	lb	4.81					0.05	4.86		4.86
App by Air ( 5 gal)	appl	7.00					0.07	7.07		7.07
Prevathon	ΟZ	14.70					0.15	14.85		14.85
Surfactant	pt	0.33						0.33		0.33
Bifenthrin	ΟZ	6.02					0.06	6.08		6.08
Incidental Pest										
App by Air ( 5 gal)	appl	7.00					0.05	7.05		7.05
IncidentalPestTrt \$8	acre	8.00					0.05	8.05		8.05
Header -Soybean	25' Flex		2.13	5.08	2.79		0.03	10.03	17.27	27.30
Haul Soybeans	bu	6.75					0.02	6.77		6.77
Grain Cart Soybean	700 bu		0.38	0.40	0.58			1.36	1.36	2.72
TOTALS		265.38	4.21	8.41	6.72	0.00	5.70	290.42	26.87	317.29

Table 14.E Estimated monthly income and expense flows per acre Soybeans, double crop after wheat, RR2X, 12R 30"

Non-irrigated, All Areas, Mississippi, 2021

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
						dolla	ars					
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	241.75
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.00	7.00	0.00
FERTILIZERS	44.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.60	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31.26	17.44	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.53	8.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	67.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.32	0.00	0.33	0.00	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.75
CUSTOM LIME	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.55	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.45	0.90	0.00	0.00	3.37
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.20	0.50	0.00	0.00	2.51
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.55	0.38	0.00	0.00	5.48
INTEREST ON OP. CAP.	2.84	0.00	0.00	0.00	0.00	0.00	0.13	1.92	0.26	0.40	0.10	0.05
TOTAL DIRECT EXPENSES	73.94	0.00	0.00	0.00	0.00	0.00	6.63	116.85	19.48	40.26	15.10	18.16
NET INCOME	-73.94	0.00	0.00	0.00	0.00	0.00	-6.63	-116.85	-19.48	-40.26	-15.10	223.59
NET INCOME TO DATE	-73.94	-73.94	-73.94	-73.94	-73.94	-73.94	-80.57	-197.42	-216.90	-257.16	-272.26	-48.67

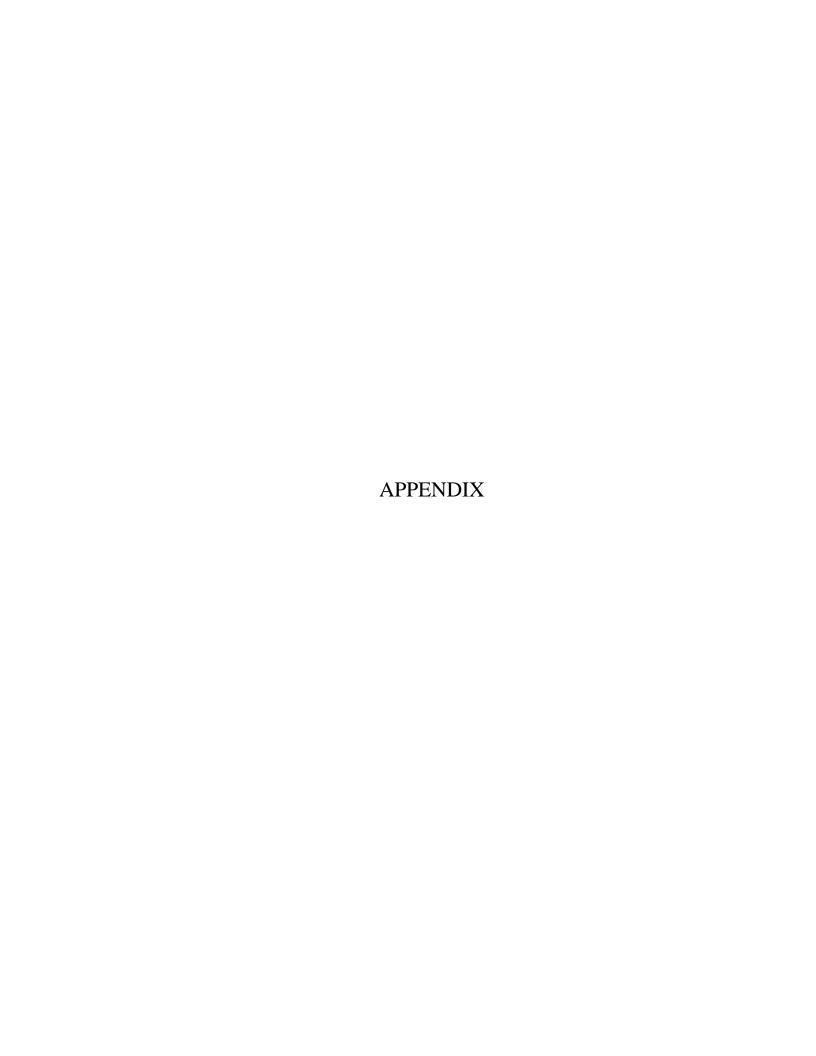
Table 14.F Estimated returns for various price/yield combinations, per acre Soybeans, double crop after wheat, RR2X, 12R 30"
Non-irrigated, All Areas, Mississippi, 2021

PRODUCT			75	80	85 	90 	95 PR	100	105 CF	110	115	120	125
Soybeans	5		7.25	7.73		8.70		9.67	10.15	10.63		11.60	12.08
PERCENT	YIELD	UNIT					d	ollars					
50	12.50	bu	-196 -223	-190 -217	-184 -211	-178 -205	-172 -199	-166 -193	-160 -186	-154 -180	-148 -174	-141 -168	-135 -162
60	15.00	bu	-178 -205	-171 -198	-164 -191	-157 -184	-149 -176	-142 -169	-135 -162	-128 -155	-120 -147	-113 -140	-106 -133
70	17.50	bu	-161 -188	-153 -179	-144 -171	-136 -162	-127 -154	-119 -146	-110 -137	-102 -129	-93 -120	-85 -112	-76 -103
80	20.00	bu	-144 -170	-134 -161	-124 -151	-115 -141	-105 -132	-95 -122	-85 -112	-76 -103	-66 -93	-56 -83	-47 -74
90	22.50	bu	-126 -153	-115 -142	-104 -131	-93 -120	-83 -109	-72 -99	-61 -88	-50 -77	-39 -66	-28 -55	-17 -44
100	25.00	bu	-109 -135	-97 -123	-84 -111	-72 -99	-60 -87	-48 -75	-36 -63	-24 -51	-12 -39	-0 -27	11 -15
110	27.50	bu	-91 -118	-78 -105	-65 -91	-51 -78	-38 -65	-25 -52	-11 -38	1 -25	14 -12	28 1	41 14
120	30.00	bu	-74 -101	-59 -86	-45 -72	-30 -57	-16 -43	-1 -28	12 -14	27 0	41 14	56 29	70 43
130	32.50	bu	-56 -83	-41 -67	-25 -52	-9 -36	6 -20	21 -5	37 10	53 26	68 42	84 57	100 73
140	35.00	bu	-39 -66	-22 -49	-5 -32	11 -15	28 1	45 18	62 35	79 52	96 69	113 86	129 103
150	37.50	bu	-21 -48	-3 -30	14 -12	32 5	50 23	68 41	86 60	105 78	123 96	141 114	159 132

The top number in each cell is Returns Above Direct Expenses.

The bottom number in each cell is Returns Above Total Specified Expenses.

Only the product listed has been varied to calculate net returns.



Appendix Table 1. Tractors/Harvesters: estimated purchase price, annual use, useful life, fuel use, and direct and fixed cost per hour, Mississippi, 2021

		Purchase	Annual	Useful	Fuel	Labor	Fuel	R&M	Total	Fixed	Total
Item Name	Size	Price	Use	Life	Use				Direct		Cost
		dollars	hours	years	gal/hr			\$	/hour		
Combine (250-299 hp)	265 hp	391,000	300	8	13.64	14.68	20.86	40.72	76.27	155.91	232.19
Combine (300-349 hp)	325 hp	395,000	300	8	16.73	14.68	25.59	41.14	81.42	157.50	238.93
Combine (350-399 hp)	355 hp	401,000	300	8	18.27	14.68	27.95	41.77	84.40	159.90	244.30
Combine (400-449 hp)	425 hp	436,000	300	8	21.87	14.68	33.47	45.41	93.56	173.85	267.42
Combine (450-499hp)	475 hp	462,000	300	8	24.44	14.68	37.40	48.12	100.21	184.22	284.43
Tractor( 20-39hp)CB	MFWD 30	30,100	600	8	1.54	14.68	2.36	0.94	17.98	5.46	23.44
Tractor( 20-39hp)RB	MFWD 30	20,700	600	8	1.54	14.68	2.36	0.64	17.68	3.75	21.44
Tractor( 40-59hp)CB	2WD 50	30,900	600	8	2.57	14.68	3.93	0.96	19.58	5.61	25.19
Tractor( 40-59hp)CB	MFWD 50	41,400	600	8	2.57	14.68	3.93	1.29	19.91	7.51	27.43
Tractor( 40-59hp)RB	2WD 50	21,700	600	8	2.57	14.68	3.93	0.67	19.29	3.94	23.23
Tractor( 40-59hp)RB	MFWD 50	27,200	600	8	2.57	14.68	3.93	0.85	19.46	4.93	24.40
Tractor(60-89hp)CB	2WD 75	53,200	600	8	3.86	14.68	5.90	1.66	22.24	9.66	31.91
Tractor( 60-89hp)CB	MFWD 75	57 <b>,</b> 600	600	8	3.86	14.68	5.90	1.80	22.38	10.46	32.84
Tractor( 60-89hp)RB	2WD 75	38,400	600	8	3.86	14.68	5.90	1.20	21.78	6.97	28.76
Tractor( 60-89hp)RB	MFWD 75	41,800	600	8	3.86	14.68	5.90	1.30	21.89	7.59	29.48
Tractor (90-119hp) CB	2WD 105	71,200	600	8	5.40	14.68	8.26	2.22	25.17	12.93	38.10
Tractor(90-119hp)CB	MFWD 105	91,700	600	8	5.40	14.68	8.26	2.86	25.81	16.65	42.46
Tractor( 90-119hp) RB	2WD 105	64,600	600	8	5.40	14.68	8.26	2.01	24.96	11.73	36.69
Tractor( 90-119hp) RB	MFWD 105	71,900	600	8	5.40	14.68	8.26	2.24	25.19	13.05	38.25
Tractor (120-139hp) CB	2WD 130	113,000	600	8	6.69	14.68	10.23	3.53	28.44	20.52	48.97
Tractor(120-139hp)CB	MFWD 130	126,000	600	8	6.69	14.68	10.23	3.93	28.85	22.88	51.73
Tractor (140-159hp)	2WD 150	111,000	600	8	7.72	14.68	11.81	3.46	29.96	20.15	50.12
Tractor (140-159hp) CB	MFWD 150	143,000	600	8	7.72	14.68	11.81	4.46	30.96	25.97	56.93
Tractor(160-179hp)CB	MFWD 170	160,000	600	8	8.75	14.68	13.38	5.00	33.06	30.47	63.54
Tractor (180-199hp) CB	MFWD 190	194,000	600	8	9.77	14.68	14.96	6.06	35.70	36.95	72.66
Tractor(200-249hp)CB	MFWD 225	233,000	600	8	11.58	14.68	17.71	7.28	39.68	44.38	84.06
Tractor(250-349hp)CB	4WD 300	314,000	600	8	15.44	14.68	23.62	9.81	48.11	59.81	107.93
Tractor(250-349hp)CB	MFWD 300	321,000	600	8	15.44	14.68	23.62	10.03	48.33	61.14	109.48
Tractor (250-349hp) CB	Track 300	329,000	600	8	15.44	14.68	23.62	10.28	48.58	62.67	111.25
Tractor (350-449hp)	Track 400	453,000	600	8	20.58		31.50		60.33		146.63
Tractor (350-449hp) CB	4WD 400	366,000	600	8	20.58		31.50		57.61		127.33
Tractor (450-550hp) CB	4WD 500	412,000	600	8	25.73		39.37		66.93		145.41
Tractor (450-550hp) CB	Track 500	470,000	600	8	25.73		39.37		68.74		158.27
Utility Vehicle	800 CC	12,200	200	8	0.70	14.68	1.32	1.90	17.90	7.29	
Utility Vehicle	900 CC	15,800	200	8	1.00	14.68	1.89	2.46	19.03	9.45	28.48
		20,000	200	O .	00		00	2.10	13.00	3.10	20.10

Notes:

Labor: Includes allocated labor from power unit.

Total Direct: Does not include interest on operating capital.

Appendix Table 2. Self-propelled machines: estimated purchase price, annual use, useful life, fuel use, performance rate, and direct and fixed cost per acre, Mississippi, 2021

		Purchase	Annual	Useful	Fuel	Perf	Labor	Fuel	R&M	Total	Fixed	Total
Item Name	Size	Price	Use	Life	Use	Rate				Direct		Cost
		dollars	hours	years	gal/hr	hr/ac			\$	/acre		
Cotton Picker	4R-38 (250)	268,000	200	8	12.86	0.257	6.11	5.07	10.79	21.98	41.32	63.31
Cotton Picker	4R-38 (350)	351,000	200	8	18.01	0.257	6.11	7.10	14.13	27.36	54.11	81.48
Cotton Picker	4R2x1(350)	357,000	200	8	18.01	0.172	4.09	4.74	9.61	18.45	36.79	55.24
Cotton Picker	6R-30(355)	465,000	200	8	18.27	0.218	5.18	6.10	15.85	27.14	60.70	87.84
Cotton Picker	6R-38 (355)	465,000	200	8	18.27	0.172	4.09	4.81	12.51	21.42	47.92	69.35
Cotton Picker/Modu	4R-38 (365)	536,000	200	8	20.58	0.257	6.11	8.12	21.58	35.82	82.64	118.47
Cotton Picker/Module	6R-30(500)	808,000	200	8	25.73	0.218	5.18	8.59	27.55	41.32	105.47	146.80
Cotton Picker/Module	6R-38(500)	807,000	200	8	25.73	0.172	4.09	6.78	21.72	32.60	83.17	115.77
Dry Applicator SP	70'300cuft	365,000	350	8	16.98	0.015	0.29	0.39	0.29	0.97	1.88	2.86
Sprayer 600-750gal	60' 175hp	216,000	350	8	9.00	0.017	0.33	0.24	0.20	0.78	1.30	2.08
Sprayer 600-825gal	80' 175hp	225,000	350	8	11.81	0.013	0.25	0.23	0.15	0.65	1.01	1.66
Sprayer 600-825gal	90' 250hp	322,000	350	8	12.73	0.011	0.22	0.22	0.20	0.65	1.29	1.95
Sprayer 800gal	100' 250hp	324,000	350	8	14.15	0.010	0.20	0.22	0.18	0.61	1.17	1.78
Sprayer 800gal	80' 250hp	292,000	350	8	12.86	0.013	0.25	0.26	0.20	0.72	1.31	2.04
Sprayer 1000-1400gal	90' 275hp	322,000	350	8	14.15	0.010	0.20	0.22	0.18	0.61	1.16	1.77
Sprayer 1000gal	100' 300hp	365,000	350	8	15.44	0.010	0.20	0.24	0.20	0.66	1.31	1.97
Sprayer 1200+gal	120' 300hp	392,000	350	8	15.44	0.008	0.16	0.20	0.18	0.56	1.18	1.74

## Notes:

Labor: includes allocated labor plus any additional labor from self-propelled machine.

Direct: Does not include interest on operating capital.

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2021

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	Imp.		Direct	Imp.		Total Cost
			dollars	hours	years	hr/ac				\$	/acre			
Bed-Paratill w/ro	4R-30	MFWD 225	18,700	150	12	0.204	2.99	3.62	1.37	1.48	9.48	2.29	9.06	20.85
Bed-Paratill w/ro Bed-Paratill w/ro	4R-38 6R-38	MFWD 225 MFWD 225	18,700 25,500	150 150	12 12	0.160	2.36 1.57	2.85	1.08	1.17	7.47 5.25	1.81	7.14 4.77	16.42 11.68
Bed-Rip/Disk Fold.	8R-38	MFWD 223	46,900	300	20	0.107	1.07	1.09	0.99	0.76	2.78	0.76	2.70	6.24
Bed-Rip/Disk Fold.	12R-30	MFWD 225	67,900	300	20	0.061	0.90	1.09	0.20	0.44	2.65	0.93	2.73	6.32
Bed-Rip/Disk Fold.	12R-38	MFWD 225	67,900	300	20	0.046	0.67	0.81	0.15	0.33	1.99	0.70	2.05	4.74
Bed-Rip/Disk Rigid Bed-Rip/Disk Rigid	4R-30 4R-38	MFWD 190 MFWD 190	21,300 21,300	300 300	20 20	0.184	2.71	2.76	0.19	1.12	6.79 5.39	0.88	6.83 5.42	14.51 11.51
Bed-Rip/Disk Rigid	4R-30 6R-30	MFWD 190	29,700	300	20	0.140	1.80	1.84	0.13	0.74	4.58	0.70	4.55	9.95
Bed-Rip/Disk Rigid	6R-38	MFWD 190	29,700	300	20	0.097	1.42	1.45	0.14	0.58	3.61	0.64	3.59	7.86
Bed-Rip/Disk Rigid	8R-30	MFWD 190	39,800	300	20	0.139	2.04	2.07	0.27	0.84	5.23	1.24	5.13	11.61
Bed-Rip/Disk Rigid Bed-Rip/Disk/Cond.	8R-38 6-Row	MFWD 190 MFWD 225	39,800 24,800	300 150	20 12	0.073	1.07 1.57	1.09	0.14	0.44	2.75 5.23	0.65 1.60	2.70 4.77	6.10 11.60
Bed-Rip/Disk/Cond.	8-Row	MFWD 225	33,000	150	12	0.080	1.18	1.43	0.96	0.78	4.16	1.60	3.58	9.35
Bed-Subsoil Fold	8R-38	MFWD 225	46,900	150	12	0.080	1.18	1.43	1.36	0.58	4.57	2.27	3.58	10.43
Bed-Subsoil Fold	8R-38 2x1	MFWD 225	67,900	150	12	0.053	0.78	0.95	1.31	0.39	3.45	2.19	2.38	8.03
Bed-Subsoil Fold Bed-Subsoil Rigid	12R-38 4R-30	MFWD 225 MFWD 225	67,900 17,500	150 150	12 12	0.053	0.78 2.99	0.95 3.62	1.31	0.39	3.45 9.39	2.19	2.38	8.03 20.62
Bed-Subsoil Rigid	4R-38	MFWD 225	16,800	150	12	0.160	2.36	2.85	0.97	1.17	7.36	1.62	7.14	16.12
Bed-Subsoil Rigid	6R-30	MFWD 225	24,300	150	12	0.136	1.99	2.41	1.19	0.99	6.60	1.99	6.04	14.63
Bed-Subsoil Rigid	6R-38	MFWD 225	25,300	150	12	0.107	1.57	1.90	0.98	0.78	5.24	1.63	4.77	11.66
Bed-Subsoil Rigid Bed-Subsoil Rigid	8R-30 8R-38	MFWD 225	32,500 33,600	150 150	12 12	0.102	1.49	1.81	1.19	0.74	5.25 4.18	1.99	4.53	11.78
Bed-Subsoil Rigid Bed/Disk (Hipper)	4R-38	MFWD 225 MFWD 150	10,500	160	10	0.080	2.16	1.43	0.38	0.58	4.18	0.98	3.88	9.40
Bed/Disk (Hipper)	6R-38	MFWD 170	16,200	160	10	0.098	1.44	1.32	0.39	0.49	3.66	1.01	3.00	7.68
Bed/Disk (Hipper)	8R-30	MFWD 190	20,800	160	10	0.093	1.37	1.40	0.48	0.56	3.83	1.24	3.46	8.54
Bed/Disk (Hipper)	8R-38 2x1	MFWD 190	51,400	160	10	0.049	0.72	0.73	0.63	0.29	2.39	1.61	1.82	5.83
Bed/Disk (Hipper) Bed/Disk (Hipper)	12R-30 12R-38	MFWD 225 MFWD 225	40,100 51,400	160 160	10 10	0.062	0.91	1.10	0.62	0.45	3.10 2.59	1.59	2.77	7.47 6.39
Bed/Disk (Hipper)	16R40	MFWD 300	60,800	160	10	0.035	0.51	0.83	0.53	0.35	2.24	1.37	2.16	5.78
Bed/Disk (Hipper)Fl	8R-38	MFWD 190	22,000	160	10	0.074	1.08	1.10	0.40	0.44	3.05	1.03	2.73	6.83
Bed/Disk (Hipper)Rd	8R-38	MFWD 190	19,700	160	10	0.074	1.08	1.10	0.36	0.44	3.01	0.93	2.73	6.68
Bed/Disk w/roller Bed/Disk w/roller	8R-30 8R-38	MFWD 190 MFWD 190	26,900 30,800	160 160	10 10	0.093	1.37	1.40	0.63	0.56	3.97 3.21	1.60 1.45	3.46	9.04 7.41
Bed/Disk w/roller	12R-30/40	MFWD 225	50,900	160	10	0.062	0.91	1.10	0.79	0.45	3.27	2.02	2.77	8.07
Bed/Lister	4R-38	MFWD 150	18,100	160	8	0.228	3.35	2.69	0.96	1.02	8.03	2.95	5.93	16.92
Bed/Lister	6R-38	MFWD 150	20,400	160	8	0.120	1.76	1.41	0.57	0.53	4.29	1.75	3.12	9.16
Bed/Lister Bed/Lister	8R-30 8R-38	MFWD 190 MFWD 190	24,900 25,000	160 160	8 8	0.114	1.67 1.32	1.70 1.35	0.66	0.69	4.74 3.75	2.03	4.21	10.99
Bed/Lister	8R-38 2x1		40,400	160	8	0.060	0.88	0.89	0.56	0.36	2.71	1.73	2.22	6.67
Bed/Lister	12R-38	MFWD 225	40,400	160	8	0.060	0.88	1.06	0.56	0.43	2.95	1.73	2.66	7.35
Bed/Lister Bed/Lister	16R-30 16R40	MFWD 225 MFWD 300	54,700 57,000	160 160	8	0.035	0.51	0.62	0.45	0.25	1.84 2.65	1.37	1.55	4.77
Bed/Lister-Roll-Fo	8R-38	MFWD 190	24,300	160	10	0.043	1.40	1.43	0.58	0.43	4.00	1.48	3.54	9.03
Bed/Lister-Roll-Fo	12R-30	MFWD 225	37,800	160	10	0.080	1.18	1.43	0.76	0.58	3.97	1.94	3.58	9.51
Bed/Lister-Roll-Fo	12R-38	MFWD 225	36,700	160	10	0.063	0.93	1.13	0.58	0.46	3.11	1.49	2.83	7.44
Bed/Lister-Roll-Fo Bed/Lister-Roll-Ri	16R-30 8R-38	MFWD 225 MFWD 190	48,700 25,000	160 160	10 10	0.060	0.89	1.07	0.73	0.44	3.14 4.02	1.88	2.69	7.72 9.09
Blade-Box	6'-7'	MFWD 190	1,470	200	20	0.020	0.29	0.16	0.01	0.04	0.51	0.01	0.26	0.78
Blade-Box	8'-10'	MFWD 105	3,830	200	20	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Blade-Box	12'-16'	MFWD 105	6,190	200	20	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Blade-Scraper Blade-Scraper	6'-7' 8'-10'	MFWD 105 MFWD 105	1,270 3,870	200 200		0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Blade-Scraper	12'-16'	MFWD 105	9,810	200		0.000			0.00			0.00	0.00	0.00
Boll Buggy	4R-38 (250)	MFWD 190	30,500	200	10	0.257	3.78	3.85	1.96	1.56	11.16	3.84	9.52	24.54
Boll Buggy	4R-38 (350)		30,500	200		0.257	3.78	3.85						24.54
Boll Buggy Boll Buggy	4R2x1 (350) 6R-30 (355)		30,500 30,500	200 200	10 10	0.172 0.218	2.52	2.57 3.26	1.31		7.46 9.45	2.57		16.40 20.78
Boll Buggy	6R-38 (355)		30,500	200		0.172		2.57						16.40
Chisel Plow-Folding	24'	MFWD 190	43,500	150	12	0.076		1.14					2.82	8.75
Chisel Plow-Folding	32'	MFWD 225	54,500	150	12	0.057	0.84	1.02		0.42		1.89		7.88
Chisel Plow-Folding Chisel Plow-Folding	42' 50'	MFWD 225 MFWD 225	65,700 85,900	150 150		0.044		0.78 0.65				1.74	1.64	6.48 6.16
Chisel Plow-Folding	61 <b>'</b>	MFWD 225	99,100	150		0.030	0.44	0.53	1.08	0.20		1.80	1.34	5.44
Chisel Plow-Rigid	10'	MFWD 170	7,790	150	12	0.184	2.71	2.47	0.52	0.92	6.63	0.86	5.63	13.13
Chisel Plow-Rigid	15'	2WD 130	13,200	150		0.123		1.26			4.09	0.97		7.60
Chisel Plow-Rigid Cultivate	20' 4R-30	MFWD 225 2WD 105	13,400 14,600	150 150		0.102		1.81	0.49	0.74	4.57 5.99		4.55 2.66	9.95 10.70
Cultivate	4R-38	2WD 105	14,000	150		0.162			0.61	0.32		1.56		8.14
Cultivate	6R-30	MFWD 150	18,500	150	10	0.137	2.01	1.62	0.67	0.61	4.93	1.72	3.57	10.23
Cultivate	6R-38	MFWD 150	19,300	150		0.108		1.28				1.42		8.16
Cultivate Cultivate	8R-30 8R-38	MFWD 190 MFWD 190	23,800 28,400	150 150	10	0.103	1.51	1.54	0.65 0.55	0.62			3.81 2.72	9.81
Cultivate	8R-38 2x1		35,200	150	10	0.073		0.81				1.42	2.72	5.75
Cultivate	12R-30	MFWD 225	42,500	150	10	0.068	1.00	1.21	0.77	0.50	3.50	1.98	3.05	8.54
Cultivate	12R-38	MFWD 225	43,800	150		0.054	0.79	0.96	0.63	0.39	2.78	1.61	2.40	6.81
Cultivate Cultivate Cultivate	16R-30	MFWD 225	58,400	150	10	0.051	0.75	0.91				2.04	2.28	7.18 13.63
Cultivate & Post Cultivate & Post	4R-30 4R-38	2WD 105 2WD 105	21,900 21,600	150 150	10 10	0.220		1.81		0.44				10.68
		-20	, 000	_00		0				1				tinued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2021 (continued)

California   Size   Unit   Price   Use   Life   Rate   Tmp.   P.U.   Direct   Tmp.   P.U.   Cost   California   South   Sout															
Collivate = Post	Item Name	Size	Power Unit					Labor	Fuel						Total Cost
Unitaristic S Port															
Callivate & Port 68-36				dollars	hours	years	hr/ac				\$,	/acre			
Distinct 6 Foot 88-80															
Colling   Coll															
Chilavane & Boest   288-30 221 MSPU   200   45,400   250   10   0.057   1.11   2.66   0.70   0.55   3.03   1.78   2.28   2.29   2.28   2.28															
Cultivate 6 Foot															
Dilty the F Port															
Bigs   Enterported   14"   200   130   33,700   200   10   0.029   2.87   3.33   1.51   0.52   6.44   2.57   3.07   12.00	Cultivate & Post	12R-38	MFWD 225	54,000	150	10	0.057	1.11	1.02	0.83	0.42	3.39	2.12	2.56	8.08
Disk A Incorporate 207 MFMU 190 73,100 200 10 0.092 1.77 1.38 1.45 0.56 5.17 2.46 3.42 10.05 0.084 6 Incorporate 24 MFMU 190 53,000 200 10 0.094 1.67 1.67 1.68 1.40 0.59 5.17 2.46 3.42 10.05 0.084 1.00 0.094 1.40 0.055 1.40 0.055 1.88 1.48 1.00 0.084 1.40 0.055 1.	Cultivate & Post	16R-30	MFWD 225		150	10	0.055		0.97	1.00	0.40	3.43			
Disk   Incorporate   24'   MFW   190   53,600   200   10   0.087   1.67   1.30   1.40   0.52   4.31   2.38   3.28   10.55   10.56   1.67   1.30   1.42   0.34   2.38   3.28   10.55   10.56   1.67   1.30   1.42   0.34   1.42   2.39   2.41   3.22   10.46   10.56   1.25   1.56   1.34   1.45	=														
Disk   Encorporate   28'															
Disk Finomy 14' 28' 28' 32' MFWD 225 68' 700 200 10 0.065 1.25 1.16 1.34 0.47 4.24 2.29 2.39 9.44 1.36 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	-														
Disk Harcew	=														
Disk Harrow  281 MEWO 259 55,000 180 10 0.081 1.20 1.20 1.22 1.05 0.49 3.97 2.14 3.02 9.15 101	-														
Disk Harrow	Disk Harrow	20'	MFWD 190	45,000	180	10	0.098	1.44	1.46	1.22	0.59	4.73	2.50	3.62	10.86
Disk Harrow   14'   MFMD 225   107,000   180   10 0.061   0.90   1.08   1.07   0.44   3.46   2.13   2.72   0.73     Disk Harrow   14'   MFMD 150   16,700   180   10 0.046   0.68   0.82   1.39   0.14     Disk Harrow   14'   MFMD 150   26,400   180   10 0.140   2.05   0.82   0.68   0.16   3.70   3.12   0.97   6.15     Disk Harrow   14'   MFMD 150   26,400   180   10 0.145   2.14   1.72   0.75   6.16   3.70   3.15   1.05     Disk Harrow   14'   MFMD 150   26,400   180   10 0.145   2.14   1.72   0.75   6.16   3.70   3.15   1.05     Disk Harrow   18'   MFMD 225   50,800   180   10 0.073   1.15   1.15   0.65   4.18   2.04   3.73     Disk Harrow   18'   MFMD 225   50,800   180   10 0.073   1.15   1.14   1.44   1.70   0.55   4.18   2.04   3.73     Disk Harrow   18'   MFMD 225   50,800   180   10 0.073   1.15   1.15   0.65   4.18   2.04   3.73     Disk Harrow   18'   MFMD 225   50,800   180   10 0.073   1.15   1.15   6.69   7.05   4.18   2.04   1.72     Disk Harrow   18'   MFMD 225   50,800   180   10 0.073   1.15   1.55   6.69   7.05   3.08   0.00   0.04   1.72     Disk Harrow   18'   MFMD 150   1.75   2.00   150   18 0.135   2.77   1.82   1.56   0.69   7.05   0.06   0.41   1.72     Disk Harrow   18'   MFMD 150   1.75   0.00   1.50   18 0.135   2.77   1.82   1.56   0.69   7.05   0.66   0.41   1.72     Feet Appl (Liquid)   4R-38   MFMD 150   1.75   0.00   1.50   8 0.035   0.07   1.15   1.55   0.69   7.05   0.18   1.15     Feet Appl (Liquid)   4R-38   MFMD 150   2.10   1.00   1.	Disk Harrow														
Disk Harrow 40-100hg 14' 2MD 75															
Disk Heavy 14' MWND 150															
Disk Heavy 20' MeWD 150 26,400 180 10 0.145 2.14 1.72 1.07 0.65 5.8 2.16 3.79 11.56 Disk Heavy 22' MeWD 255 56,000 180 10 0.097 1.42 1.45 1.21 0.05 4.69 2.48 3.59 10.75 Disk Heavy 28' MeWD 255 56,000 180 10 0.097 1.72 1.45 1.21 0.59 4.69 2.48 3.59 10.75 Disk Heavy 28' MeWD 255 56,000 180 10 0.095 1.11 1.34 1.17 0.55 4.69 2.48 3.59 10.75 Disk Heavy 28' MeWD 255 56,000 180 10 0.095 1.11 1.34 1.17 0.55 4.69 2.48 3.59 10.75 Disk Heavy 28' MeWD 255 56,000 180 10 0.095 1.11 1.34 1.17 0.55 4.69 2.49 7.32 3.18 0.49 11.55 Disk Heavy 28' MeWD 255 56,000 180 10 0.095 1.11 1.34 1.17 0.55 4.69 2.72 0.99 7.32 3.18 0.40 17.29 Disk Heavy 28' MeWD 255 56,000 180 10 0.095 0.15 1.11 1.34 1.17 0.55 4.69 2.09 7.32 3.18 0.40 17.29 Disk Heavy 28' MeWD 255 6.65 0.65 6.65 0.65 0.65 0.65 0.65 0.				,											
Dask Heavy 20' MFWD 190 45,000 180 10 0.097 1.42 1.45 1.21 0.59 4.69 2.48 3.59 10.76 Dask Heavy 21' S. MFWD 225 56,000 180 10 0.075 1.11 1.34 1.17 0.55 4.18 2.40 3.59 10.76 Dask Heavy 21' S. MFWD 225 50,800 180 10 0.135 1.99 2.41 1.34 1.17 0.55 4.18 2.40 3.59 10.76 Dask Heavy 21' S. MFWD 225 50,800 180 10 0.10 0.136 1.99 2.41 1.92 0.99 7.32 3.91 6.04 17.29 Dask Heavy 21' S. MFWD 225 2.00 10 0.00 0.00 0.00 0.00 0.00 0.00 0															
Disk Reper 15' MFWD 225 56,000 180 10 0.075 1.11 1.34 1.77 0.55 4.18 2.40 3.35 9.94 Disk Ripper 15' MFWD 225 50,800 180 10 0.036 1.39 2.41 1.92 0.99 7.32 3.91 0.00 1.00 1.00 1.00 1.00 1.00 1.00 1	_														
Ditcher (m/160a)	Disk Heavy														
Ditcher (1m/160a) Fert Appl (Liquid) Fert Appl (Liq		15'													
Pert Appl (Liquid) 48-38 MFWD 150 15,200 150 8 0.154 2.97 1.82 1.56 0.69 7.05 1.70 4.01 12.78 Pert Appl (Liquid) 68-30 MFWD 170 17,900 150 8 0.130 2.15 1.75 1.82 1.56 0.65 6.48 1.70 3.99 12.78 Pert Appl (Liquid) 68-38 MFWD 170 17,900 150 8 0.103 1.98 1.38 1.23 0.55 1.15 1.15 1.15 1.15 1.15 1.15 1.15															
Sert Appl (Liquid)		4D 20													
Fert Appl (Liquid)															
Feet Appl (Liquid) 8R-38 MFW0 190 20,600 150 8 0,098 1.88 1.46 1.21 0.59 5.16 1.32 3.62 10.12 Feet Appl (Liquid) 8R-38 MFW0 190 20,600 150 8 0,071 1.49 1.16 10,0 0.47 4.19 1.16 2.86 8.22 Feet Appl (Liquid) 12R-30 MFW0 190 21,000 150 8 0.051 0.99 0.77 0.72 0.31 2.80 0.78 1.91 5.50 Feet Appl (Liquid) 12R-30 MFW0 225 24,700 150 8 0.051 0.99 0.77 0.72 0.31 2.80 0.78 1.91 5.50 Feet Appl (Liquid) 12R-30 MFW0 225 24,700 150 8 0.051 0.99 0.79 0.76 0.72 0.37 2.99 0.72 2.29 5.96 Feet Appl (Liquid) 12R-30 MFW0 225 69,500 100 10 0.037 0.72 0.66 0.65 0.27 2.32 2.67 1.67 6.67 Field Cult & Fine Fid 24' MFW0 170 38,500 100 10 0.031 0.60 0.56 0.65 0.27 2.32 2.67 1.68 6.79 Field Cult & Fine Fid 24' MFW0 170 38,500 100 10 0.031 0.60 0.56 0.65 0.37 2.93 2.67 1.68 6.79 Field Cult & Fine Fid 32' MFW0 190 50,900 100 10 0.049 0.95 0.74 0.63 0.33 3.12 2.59 2.01 7.73 MFW0 190 50,900 100 10 0.049 0.95 0.74 0.63 0.33 3.12 2.59 2.01 7.73 MFW0 190 50,900 100 10 0.049 0.95 0.74 0.63 0.33 3.12 2.59 2.66 1.61 1.75 MFW0 190 43,500 100 10 0.046 0.69 0.69 0.50 0.68 0.43 1.25 2.59 2.67 1.83 7.03 Field Cult-frate Fid 32' MFW0 190 43,500 100 10 0.046 0.69 0.69 0.50 0.68 0.43 1.25 2.59 2.67 1.83 7.36 Field Cult-frate Fid 32' MFW0 190 43,500 100 10 0.046 0.69 0.69 0.50 0.52 0.25 1.32 2.59 2.67 1.68 1.75 1.75 1.75 1.75 1.75 1.75 1.75 1.75															
Fert Appl (Liguid) Fert Appl (Li															
Fert Appl (Liquid) 12R-30 MFNO 225 24,700 150 8 0.078 1.05 1.39 1.29 0.57 4.76 1.40 3.48 9.66 Felt Appl (Liquid) 12R-30 MFNO 225 69,500 100 10 0.037 0.72 0.66 0.57 2.95 0.72 2.95 0.76 6.67 Fleld Cult & Inc		8R-38	MFWD 190	20,600	150	8	0.077	1.49	1.16	1.06	0.47	4.19	1.16	2.86	8.22
Fert Appl (Liquid) 12R-38   MFWD 225   19,300   150   8   0.051   0.99   0.91   0.60   0.66   0.37   2.39   0.72   2.29   5.66   Fleid Cult & Inc   50'   MFWD 225   82,200   100   10   0.037   0.72   0.06   0.66   0.65   0.23   2.05   2.67   1.67   6.66   Fleid Cult & Inc   50'   MFWD 225   82,200   100   10   0.031   0.60   0.66   0.65   0.23   2.05   2.65   1.40   6.12   Fleid Cult & Inc   10   24'   MFWD 170   38,500   100   10   0.049   0.95   0.74   0.63   0.30   3.12   2.59   2.01   7.73   7.73   7.73   7.74	Fert Appl (Liquid)														
Field Cult & Inc															9.66
Field Cult & Inc   50'   MFWD 225   82,200   100   10   0.031   0.60   0.56   0.65   0.23   2.05   2.65   1.40   6.17   Field Cult & Inc Fld   32'   MFWD 170   38,500   100   10   0.049   0.95   0.74   0.63   0.30   3.12   2.59   2.01   7.73   Field Cult & Inc Fld   32'   MFWD 170   31,100   100   10   0.049   0.95   0.74   0.63   0.30   2.62   2.57   1.83   7.03   Field Culti & Inc Fld   12'   MFWD 170   31,100   100   10   0.062   0.91   0.83   0.88   0.31   0.35   0.26   2.57   1.83   7.03   Field Cultivate Fld   24'   MFWD 170   31,100   100   10   0.062   0.91   0.83   0.88   0.31   2.54   1.97   1.89   6.41   Field Cultivate Fld   32'   MFWD 190   43,500   100   10   0.062   0.91   0.83   0.69   0.50   0.28   2.17   2.06   1.72   5.45   Field Cultivate Fld   42'   MFWD 255   59,400   100   10   0.035   0.52   0.62   0.52   0.52   0.52   0.51   0.21   1.69   2.15   1.57   5.66   Field Cultivate Fld   42'   MFWD 255   69,000   100   10   0.025   0.52   0.52   0.52   0.52   0.53   0.33   0.33   2.63   1.05   1.57   5.66   Field Cultivate Fld   42'   MFWD 190   44,000   200   12   0.025   0.37   0.37   0.18   0.15   1.09   0.31   0.93   2.33   Field Cultivate Fld   50'   MFWD 190   44,000   200   12   0.025   0.37   0.37   0.18   0.15   1.09   0.31   0.93   2.33   Field Cultivate Fld   50'   MFWD 190   27,300   200   12   0.055   0.37   0.37   0.44   0.39   0.18   1.40   0.66   1.12   3.18   Field Cultivate Fld   50'   MFWD 190   27,300   200   12   0.062   0.91   0.93   0.46   0.33   2.61   0.90   0.93   0.46   Frain Cart Rice   500 bu   MFWD 190   57,900   200   12   0.055   0.80   0.82   0.65   0.33   2.61   0.95   0.93   0.46   Frain Cart Rice   500 bu   MFWD 190   57,900   200   12   0.055   0.80   0.82   0.65   0.33   2.61   0.95   0.48   0.48   Frain Cart Rice   500 bu   MFWD 190   57,900   200   12   0.055   0.80   0.82   0.65   0.33   2.61   0.95   0.48   0.48   Frain Cart Rice   500 bu   MFWD 190   44,000   200   12   0.055   0.80   0.80   0.80   0.85   0.85   0.85   0.85   0.85   0.85   0.85   0.85															
Field Cult & Inc Fld 2' MFWD 170															
Field Cult & Inc Ridg 12'															
Field Cultivate Pid 32' MFWD 170 31,100 100 10 0.062 0.91 0.83 0.48 0.41 2.54 1.97 1.89 6.41 Field Cultivate Pid 32' MFWD 25 59,400 100 10 0.064 0.68 0.69 0.50 0.28 2.17 2.06 1.72 5.96 Field Cultivate Pid 42' MFWD 25 59,400 100 10 0.035 0.52 0.52 0.25 1.93 2.15 1.57 5.66 Field Cultivate Pid 50' MFWD 225 69,000 100 10 0.029 0.43 0.52 0.51 0.21 1.69 2.10 1.32 5.12 Field Cultivate Rdg 12' 2WD 150 12,300 100 10 0.029 0.43 0.52 0.51 0.21 1.69 2.10 1.32 5.12 Field Cultivate Rdg 12' 2WD 150 12,300 100 10 0.029 0.43 0.52 0.51 0.21 1.69 2.10 1.32 5.12 Field Cultivate Rdg 12' 2WD 150 12,300 100 10 0.029 0.43 0.52 0.51 0.21 1.69 2.10 1.32 5.12 Field Cultivate Rdg 12' 2WD 150 12,300 100 10 0.029 0.43 0.52 0.51 0.21 1.69 2.10 1.32 5.12 Field Cultivate Rdg 12' 2WD 150 12,300 100 10 0.029 0.43 0.52 0.51 0.21 1.69 2.10 0.31 0.93 2.33 62ain Cart Corn 700 bu MFWD 190 27,300 200 12 0.025 0.37 0.37 0.30 0.15 1.09 0.31 0.93 2.33 62ain Cart Rice 700 bu MFWD 190 27,300 200 12 0.025 0.37 0.44 0.39 0.18 1.40 0.66 1.12 3.18 62ain Cart Rice 700 bu MFWD 190 44,000 200 12 0.052 0.91 0.93 0.46 0.37 2.69 0.77 2.30 5.74 62ain Cart Soybean 700 bu MFWD 190 27,300 200 12 0.045 0.60 0.80 0.82 0.65 0.33 2.61 1.09 2.03 5.74 62ain Cart Soybean 700 bu MFWD 190 27,300 200 12 0.045 0.63 0.37 0.38 0.18 0.15 1.09 0.31 0.94 2.35 62ain Cart Soybean 700 bu MFWD 190 27,300 200 12 0.025 0.37 0.38 0.18 0.15 1.09 0.31 0.94 2.35 62ain Cart Soybean 800 bu MFWD 190 27,300 200 12 0.025 0.37 0.38 0.18 0.15 1.09 0.31 0.94 2.35 62ain Cart Mhr/Sor 700 bu MFWD 190 27,300 200 12 0.025 0.37 0.38 0.18 0.15 1.09 0.31 0.94 2.35 62ain Cart Mhr/Sor 700 bu MFWD 190 57,900 200 12 0.025 0.31 0.31 0.35 0.35 0.12 1.09 0.55 0.78 2.43 62ain Cart Mhr/Sor 700 bu MFWD 190 57,900 200 12 0.025 0.31 0.31 0.35 0.35 0.12 1.09 0.55 0.78 2.43 62ain Cart Mhr/Sor 700 bu MFWD 190 57,900 200 12 0.025 0.31 0.31 0.35 0.35 0.15 0.50 0.35 0.78 2.33 62ain Cart Mhr/Sor 700 bu MFWD 190 57,900 200 12 0.025 0.31 0.31 0.35 0.35 0.55 0.50 0.38 0.35 0.35 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.38		32'			100	10	0.049	0.95	0.74	0.63	0.30	2.62	2.57	1.83	7.03
Field Cultivate Fid 42' MFWD 190 43,500 100 10 0.046 0.68 0.69 0.50 0.28 2.17 2.06 1.72 5.96 Field Cultivate Fid 42' MFWD 225 69,400 100 10 0.035 0.29 0.62 0.52 0.52 0.51 0.21 1.69 2.10 1.32 5.12 Field Cultivate Rid 50' MFWD 225 69,000 100 10 0.035 0.29 0.43 0.52 0.51 0.21 1.69 2.10 1.32 5.12 Field Cultivate Rid 12' 2WD 150 12,300 100 10 0.024 0.43 0.52 0.51 0.21 1.69 2.10 1.32 5.12 Field Cultivate Rid 12' 2WD 150 12,300 100 10 0.124 1.80 1.40 0.63 0.43 0.41 1.55 0.25 0.81 0.21 1.09 0.31 0.93 2.33 0.46 0.37 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.4	Field Cult & Inc Rdg	12'	2WD 150	19,600	100	10	0.132	2.53	1.56	0.64	0.45	5.20	2.64	2.66	10.51
Field Cultivate Fild 50' MFMD 225 59,400 100 10 0.035 0.52 0.62 0.52 0.25 1.93 2.15 1.57 5.66 Field Cultivate Rdg 50' MFMD 225 69,000 100 10 0.029 12 0.025 0.37 0.31 0.51 0.21 1.69 2.10 1.32 5.12 Field Cultivate Rdg 12' 2WD 150 12,300 100 10 0.029 12 0.025 0.37 0.37 0.38 0.43 4.11 1.56 2.50 8.17 0.37 0.37 0.30 0.55 0.25 0.37 0.37 0.38 0.43 4.11 1.56 2.50 8.17 0.37 0.37 0.30 0.55 0.50 0.55 0.50 0.50 0.50 0.50															
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Grain Cart Corn															
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Grain Cart Rice 700 bu MFWD 190 44,000 200 12 0.055 0.80 0.82 0.65 0.33 2.61 1.09 2.03 5.74 Grain Cart Rice 1000 bu MFWD 190 57,900 200 12 0.025 0.37 0.38 0.18 0.15 1.09 0.31 0.94 2.35 Grain Cart Soybean 700 bu MFWD 190 27,300 200 12 0.025 0.37 0.38 0.18 0.15 1.09 0.31 0.94 2.35 Grain Cart Soybean 1000 bu MFWD 190 44,000 200 12 0.021 0.31 0.31 0.35 0.12 1.01 0.42 0.78 2.23 Grain Cart Wht/Sor 500 bu MFWD 190 57,900 200 12 0.021 0.31 0.31 0.33 0.12 1.09 0.55 0.78 2.23 Grain Cart Wht/Sor 500 bu MFWD 190 57,900 200 12 0.021 0.31 0.31 0.33 0.12 1.09 0.55 0.78 2.43 Grain Cart Wht/Sor 700 bu MFWD 190 57,900 200 12 0.021 0.31 0.31 0.33 0.12 1.09 0.55 0.78 2.43 Grain Cart Wht/Sor 700 bu MFWD 190 57,900 200 12 0.025 0.37 0.38 0.18 0.15 1.09 0.31 0.94 2.35 Grain Cart Wht/Sor 1000 bu MFWD 190 57,900 200 12 0.021 0.31 0.31 0.33 0.12 1.09 0.55 0.78 2.43 Grain Drill 10' 2WD 130 28,000 150 8 0.188 4.47 1.93 1.97 0.66 9.05 3.64 3.86 16.57 Grain Drill 12' 2WD 130 28,000 150 8 0.188 4.47 1.93 1.97 0.66 9.05 3.64 3.86 16.57 Grain Drill 20' MFWD 190 66,800 150 8 0.125 3.98 1.48 1.59 0.56 6.62 2.94 3.26 12.83 Grain Drill 21' 4 MFWD 190 66,800 150 8 0.094 2.23 1.26 1.46 0.47 5.43 2.69 2.87 11.00 Grain Drill 30' MFWD 25 68,500 150 8 0.062 1.49 1.11 1.61 0.45 4.67 2.97 2.79 10.44 Grain Drill 4 Pre 10' 2WD 130 35,400 150 8 0.062 1.49 1.11 1.61 0.45 4.67 2.97 2.79 10.44 Grain Drill 4 Pre 12' 2WD 130 35,400 150 8 0.062 1.49 1.11 1.61 0.45 4.67 2.97 2.79 10.44 Grain Drill 4 Pre 12' 2WD 130 35,400 150 8 0.062 1.49 1.11 1.61 0.45 4.67 2.97 2.79 10.44 Grain Drill 4 Pre 12' 2WD 130 35,400 150 8 0.062 1.49 1.11 1.61 0.45 4.67 2.97 2.79 10.44 Grain Drill 4 Pre 12' 2WD 130 35,400 150 8 0.062 1.49 1.11 1.61 0.45 4.67 2.97 2.79 10.44 1.40 150 8 0.062 1.49 1.11 1.61 0.45 4.67 2.97 2.79 10.44 1.40 1.40 1.40 1.40 1.40 1.40 1.4	Grain Cart Corn														
Grain Cart Rice   1000 bu   MFWD 190   57,900   200   12   0.045   0.67   0.68   0.71   0.27   2.35   1.19   1.69   5.24   Grain Cart Soybean   700 bu   MFWD 190   27,300   200   12   0.025   0.37   0.38   0.18   0.15   1.09   0.31   0.34   0.25   Grain Cart Soybean   1000 bu   MFWD 190   44,000   200   12   0.021   0.31   0.31   0.35   0.12   1.01   0.42   0.78   2.21   Grain Cart Wht/Sor   500 bu   MFWD 190   44,000   200   12   0.021   0.31   0.31   0.33   0.12   1.09   0.55   0.78   2.43   Grain Cart Wht/Sor   500 bu   MFWD 190   44,000   200   12   0.025   0.37   0.38   0.18   0.15   1.09   0.55   0.78   2.43   Grain Cart Wht/Sor   700 bu   MFWD 190   44,000   200   12   0.025   0.37   0.38   0.18   0.15   1.09   0.31   0.31   0.35   Grain Cart Wht/Sor   700 bu   MFWD 190   44,000   200   12   0.021   0.31   0.31   0.35   0.12   1.01   0.42   0.78   2.43   Grain Drill   10'   2WD 130   28,000   150   8   0.188   4.47   1.93   1.69   0.55   0.55   0.75   3.64   3.86   16.57   Grain Drill   15'   MFWD 150   33,900   150   8   0.155   2.98   1.48   1.59   0.56   6.62   2.94   3.26   12.83   Grain Drill   24'   MFWD 190   66,800   150   8   0.094   2.23   1.26   1.46   0.47   5.43   2.69   2.87   11.00   Grain Drill   30'   MFWD 225   68,500   150   8   0.062   1.49   1.11   1.61   0.45   4.67   2.79   2.79   10.44   Grain Drill & Pre   10'   2WD 130   35,400   150   8   0.62   1.49   1.11   1.61   0.45   4.67   2.79   2.79   10.44   Grain Drill & Pre   15'   MFWD 150   35,400   150   8   0.062   1.49   1.11   1.51   0.45   4.67   2.79   2.79   10.44   Grain Drill & Pre   15'   MFWD 150   35,400   150   8   0.062   1.49   1.11   1.51   0.45   4.67   2.79   2.79   10.44   Grain Drill & Pre   20'   MFWD 150   35,400   150   8   0.62   1.49   1.11   1.51   0.45   4.67   2.79   2.79   10.44   Grain Drill & Pre   20'   MFWD 150   35,400   150   8   0.62   1.49   1.11   1.51   0.45   4.67   2.79   2.79   10.44   Grain Drill & Pre   30'   MFWD 225   68,500   150   8   0.62   1.49   1.11   1.51   0.45   4.67   2.79															
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Grain Drill & Pre 30' MFWD 225 75,800 150 8 0.067 1.60 1.19 1.92 0.49 5.22 3.54 3.00 11.77 Grain Drill & Pre 35' MFWD 225 101,000 150 8 0.058 1.37 1.02 2.19 0.42 5.02 4.04 2.57 11.64 Grain Drill & Pre T 8R-38 MFWD 225 59,000 150 8 0.062 1.49 1.11 1.39 0.45 4.45 2.56 2.79 9.80 Harrow - Folding 24' MFWD 190 13,800 200 10 0.064 0.94 0.96 0.31 0.39 2.62 0.45 2.39 5.46 Harrow - Folding 30' MFWD 190 15,300 200 10 0.051 0.75 0.77 0.27 0.31 2.12 0.40 1.91 4.44 Harrow - Folding 40' MFWD 190 21,300 200 10 0.038 0.56 0.58 0.28 0.23 1.67 0.42 1.43 3.53 Harrow - Folding 48' MFWD 225 26,000 200 10 0.032 0.47 0.57 0.29 0.23 1.57 0.42 1.43 3.44 Header - Corn 6R-30 265 hp 51,400 300 8 0.170 2.49 3.55 2.18 6.93 15.17 3.17 26.54 44.90 Header - Corn 6R-38 265 hp 52,300 300 8 0.127 1.87 2.66 2.13 5.20 11.87 3.09 19.91 34.88															
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Harrow - Folding 24' MFWD 190 13,800 200 10 0.064 0.94 0.96 0.31 0.39 2.62 0.45 2.39 5.46 Harrow - Folding 30' MFWD 190 15,300 200 10 0.051 0.75 0.77 0.27 0.31 2.12 0.40 1.91 4.44 Harrow - Folding 40' MFWD 190 21,300 200 10 0.038 0.56 0.58 0.28 0.23 1.67 0.42 1.43 3.53 Harrow - Folding 48' MFWD 225 26,000 200 10 0.032 0.47 0.57 0.29 0.23 1.57 0.42 1.43 3.44 Header - Corn 6R-30 265 hp 51,400 300 8 0.170 2.49 3.55 2.18 6.93 15.17 3.17 26.54 44.90 Header - Corn 6R-38 265 hp 52,300 300 8 0.134 1.97 2.80 1.75 5.47 12.01 2.55 20.95 35.52 Header - Corn 8R-30 265 hp 66,800 300 8 0.127 1.87 2.66 2.13 5.20 11.87 3.09 19.91 34.88															
Harrow - Folding 30' MFWD 190 15,300 200 10 0.051 0.75 0.77 0.27 0.31 2.12 0.40 1.91 4.44 Harrow - Folding 40' MFWD 190 21,300 200 10 0.038 0.56 0.58 0.28 0.23 1.67 0.42 1.43 3.53 Harrow - Folding 48' MFWD 225 26,000 200 10 0.032 0.47 0.57 0.29 0.23 1.57 0.42 1.43 3.44 Header - Corn 6R-30 265 hp 51,400 300 8 0.170 2.49 3.55 2.18 6.93 15.17 3.17 26.54 44.90 Header - Corn 6R-38 265 hp 52,300 300 8 0.134 1.97 2.80 1.75 5.47 12.01 2.55 20.55 35.52 Header - Corn 8R-30 265 hp 66,800 300 8 0.127 1.87 2.66 2.13 5.20 11.87 3.09 19.91 34.88															
Harrow - Folding 40' MFWD 190 21,300 200 10 0.038 0.56 0.58 0.28 0.23 1.67 0.42 1.43 3.53 Harrow - Folding 48' MFWD 225 26,000 200 10 0.032 0.47 0.57 0.29 0.23 1.57 0.42 1.43 3.44 Header - Corn 6R-30 265 hp 51,400 300 8 0.170 2.49 3.55 2.18 6.93 15.17 3.17 26.54 44.90 Header - Corn 6R-38 265 hp 52,300 300 8 0.134 1.97 2.80 1.75 5.47 12.01 2.55 20.95 35.52 Header - Corn 8R-30 265 hp 66,800 300 8 0.127 1.87 2.66 2.13 5.20 11.87 3.09 19.91 34.88	_														
Harrow - Folding 48' MFWD 225 26,000 200 10 0.032 0.47 0.57 0.29 0.23 1.57 0.42 1.43 3.44 Header - Corn 6R-30 265 hp 51,400 300 8 0.170 2.49 3.55 2.18 6.93 15.17 3.17 26.54 44.90 Header - Corn 6R-38 265 hp 52,300 300 8 0.134 1.97 2.80 1.75 5.47 12.01 2.55 20.95 35.52 Header - Corn 8R-30 265 hp 66,800 300 8 0.127 1.87 2.66 2.13 5.20 11.87 3.09 19.91 34.88	_														
Header - Corn       6R-30       265 hp       51,400       300       8 0.170       2.49 3.55 2.18 6.93 15.17 3.17 26.54 44.90         Header - Corn       6R-38       265 hp       52,300 300 8 0.134 1.97 2.80 1.75 5.47 12.01 2.55 20.95 35.52         Header - Corn       8R-30 265 hp       66,800 300 8 0.127 1.87 2.66 2.13 5.20 11.87 3.09 19.91 34.88	_														
Header - Corn     6R-38     265 hp     52,300     300     8 0.134     1.97 2.80 1.75 5.47 12.01 2.55 20.95 35.52       Header - Corn     8R-30     265 hp     66,800 300     8 0.127 1.87 2.66 2.13 5.20 11.87 3.09 19.91 34.88															
Header - Corn 8R-30 265 hp 66,800 300 8 0.127 1.87 2.66 2.13 5.20 11.87 3.09 19.91 34.88															
(continued	Header - Corn	8R-30	265 hp	66,800	300	8	0.127	1.87	2.66	2.13	5.20	11.87	3.09		
														(con	tinued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2021 (continued)

Item Name	Size	Power Unit	Purchase Price	Annual Use		Perf Rate	Labor	Fuel			Total Direct	Fixe		Total Cost
			dollars	hours	years	hr/ac				\$	/acre			
Header - Corn	8R-38	325 hp	67,900	300	8	0.100	1.48	2.58	1.71	4.15	9.93	2.48	15.90	28.32
Header - Corn	12R-20	325 hp	102,000	300	8	0.127	1.87	3.26	3.25	5.25	13.65	4.73 2	20.11	38.50
Header - Corn	12R-30	325 hp	112,000	300	8	0.085	1.24	2.17	2.38	3.50	9.31	3.46		26.19
Header - Draper (CL)	25' Rigid	~	61,400	300	8	0.203	2.98	4.23	2.85	8.27	18.34	4.30		54.31
Header - Draper (CL) Header - Draper (CL)	30' Rigid 36' Rigid	325 hp 355 hp	73,700 77,300	300 300	8 8	0.169	2.48	4.33	2.85	6.96 5.89	16.63 14.40	4.30 2 3.76 2		47.60 40.71
Header - Draper (CL)	40' Rigid	425 hp	82,700	300	8	0.126	1.86	4.24	2.40	5.76	14.28	3.62 2		39.97
Header - Draper (SL)	25' Rigid	325 hp	61,400	300	8	0.176	2.58	4.50	2.47	7.24	16.80	3.73 2	27.72	48.26
Header - Draper (SL)	30' Rigid	325 hp	73,700	300	8	0.146	2.15	3.75	2.47	6.03	14.41	3.73 2		41.25
Header - Draper (SL)	36' Rigid	355 hp	77,300	300	8	0.122	1.79	3.41	2.16	5.10	12.48	3.26		35.28
Header - Draper (SL) Header -RiceStrp(CL)	40' Rigid 20'	425 hp 265 hp	82,700 50,600	300 300	8	0.110	1.61 3.72	3.68 5.29	2.08	4.99	12.37 22.57	3.14 1 4.66 3		34.64 66.81
Header -RiceStrp(CL)	24'	325 hp	54,000	300	8	0.233	3.10	5.41	2.85	8.70	20.07	4.14 3		57.54
Header -RiceStrp(CL)	32'	325 hp	60,800	300	8	0.158	2.32	4.06	2.41	6.52	15.32	3.50 2		43.82
Header -RiceStrp(SL)	20'	265 hp	50,600	300	8	0.220	3.22	4.59	2.78	8.96	19.56	4.04 3	34.30	57.90
Header -RiceStrp(SL)	24'	325 hp	54,000	300	8	0.183	2.69	4.69	2.47	7.54	17.40	3.59 2		49.87
Header -RiceStrp(SL)	32'	325 hp	60,800	300	8	0.137	2.01	3.51	2.09	5.65	13.28	3.03 2		37.97
Header -Soybean Header -Soybean	22' Flex 25' Flex	265 hp 325 hp	33,700 36,200	300 300	8	0.116	1.70	2.42	0.97	4.72	9.83 9.24	1.42		29.35
Header -Soybean	30' Flex	325 hp	43,800	300	8	0.085	1.24	2.17	0.93	3.50	7.86	1.35		22.62
Header -Soybean	35' Flex	355 hp	50,100	300	8	0.072	1.07	2.04	0.91	3.04	7.07	1.32		20.07
Header Wheat/Sorghum	22' Rigid	265 hp	19,800	300	8	0.116	1.70	2.42	0.57	4.72	9.43	0.83	18.10	28.36
Header Wheat/Sorghum	25' Rigid	325 hp	25,400	300	8	0.102	1.49	2.61	0.64	4.20	8.96	0.94		26.00
Header Wheat/Sorghum	30' Rigid	325 hp	29,100	300	8	0.085	1.24	2.17	0.61	3.50	7.55	0.89 1		21.86
Land Plane	50'x16'	MFWD 190	9,700	200	10	0.151	2.22	2.26	0.29	0.91	5.70		5.60	12.06
Levee Pull & Seed Levee Pull (1m/80a)	8 Blade 8 blade	MFWD 170 MFWD 170	9,700 8,270	100 100	10 10	0.003	0.05	0.04	0.00	0.01	0.12	0.03	0.10	0.26
Levee Splitter (1/80	32"	MFWD 150	8,270	100	10	0.004	0.06	0.04	0.00	0.01	0.13	0.03	0.10	0.27
Module Builder	4R-38 (250)		34,700	200	10	0.257	6.11	3.85	2.23	1.56	13.77	4.37	9.52	27.68
Module Builder	4R-38 (350)	MFWD 190	34,700	200	10	0.257	6.11	3.85	2.23	1.56	13.77	4.37	9.52	27.68
Module Builder	4R2x1(350)		34,700	200	10	0.172	4.09	2.57	1.49	1.04	9.20	2.92	6.36	18.50
Module Builder	6R-30 (355)		34,700	200	10	0.218	5.18	3.26	1.89	1.32	11.66	3.70	8.06	23.43
Module Builder NT Grain Drill	6R-38 (355) 10'	2WD 130	34,700 34,400	200 150	10 8	0.172	4.09 5.59	2.57	1.49	1.04	9.20 11.88	2.92 5.60	6.36 4.83	18.50
NT Grain Drill	12'	2WD 130	46,600	150	8	0.163	3.88	1.67	2.86	0.57	9.00	5.27	3.35	17.62
NT Grain Drill	15'	MFWD 150	56,000	150	8	0.130	3.10	1.54	2.74	0.58	7.99	5.06	3.40	16.45
NT Grain Drill	20'	MFWD 170	67,400	150	8	0.098	2.33	1.31	2.48	0.49	6.61	4.57	2.99	14.18
NT Grain Drill	24'	MFWD 190	98,000	150	8	0.081	1.94	1.22	3.00	0.49	6.67	5.54	3.02	15.23
NT Grain Drill	30'	MFWD 225	104,300	150	8	0.065	1.55	1.16	2.56	0.47	5.75	4.71	2.90	13.37
NT Grain Drill & Pre NT Grain Drill & Pre	10' 12'	2WD 130 2WD 130	41,800 54,000	150 150	8	0.211	5.02 4.18	2.16	3.31	0.74	11.25 10.18	6.10 6.57	4.34	21.70
NT Grain Drill & Pre	15'	MFWD 150	63,300	150	8	0.141	3.34	1.66	3.34	0.63	8.99	6.16	3.66	18.82
NT Grain Drill & Pre	20'	MFWD 170	74,700	150	8	0.105	2.51	1.41	2.96	0.52	7.41	5.45	3.22	16.10
NT Grain Drill & Pre	24'	MFWD 190	105,000	150	8	0.088	2.09	1.31	3.47	0.53	7.41	6.39	3.25	17.06
NT Grain Drill & Pre	30'	MFWD 225	112,000	150	8	0.070	1.67	1.24	2.96	0.51	6.39	5.45	3.12	14.98
NT Plant&Pre-Folding	8R-38	MFWD 170	67,700	150	8	0.083	1.98	1.11	2.12	0.41	5.64	3.91	2.54	12.10
NT Plant&Pre-Folding NT Plant&Pre-Folding	8R-38 2x1 12R-20	MFWD 170 MFWD 190	103,000 82,600	150 150	8	0.055	1.32	0.74	2.15	0.27	4.49 8.01	3.96 6.03	1.69	10.15 17.95
NT Plant&Pre-Folding	12R-30	MFWD 190	91,000	150	8	0.070	1.67	1.05	2.40	0.42	5.56	4.43	2.60	12.60
	12R-38	MFWD 190	103,000	150	8	0.055	1.32	0.83	2.15	0.33	4.64	3.96	2.05	10.66
NT Plant&Pre-Folding	16R-30	MFWD 190	137,000	150	8	0.052	1.25	0.79	2.71	0.32	5.08		1.95	
NT Plant&Pre-Folding	23R-15	MFWD 190	186,000	150	8	0.073			5.12	0.44	8.41			20.56
NT Plant&Pre-Folding NT Plant&Pre-Folding	24R-20 24R-30	MFWD 190	207,000	150 150	8	0.052	1.25	0.79 0.52	4.10	0.32	6.47 4.44		1.95	15.98 11.03
NT Plant&Pre-Folding	31R-15	MFWD 190 MFWD 225	217,000 222,000	150	8	0.054	1.29	0.96	2.86 4.55	0.39	7.21	5.28 8.38	1.30	18.02
NT Plant&Pre-Folding	32R-15	MFWD 225	216,200	150	8	0.052	1.25	0.93	4.28	0.38	6.86		2.34	17.11
NT Plant&Pre-Rigid	4R-30	2WD 130	34,600	150	8	0.211	5.02	2.16	2.74	0.74	10.67	5.05	4.34	20.07
NT Plant&Pre-Rigid	4R-38	2WD 130	36,000	150	8	0.166	3.95	1.70	2.24	0.58	8.49	4.14	3.41	16.05
NT Plant&Pre-Rigid	6R-30	MFWD 150	44,300	150	8	0.141	3.34		2.34	0.63	7.98			15.96
NT Plant&Pre-Rigid NT Plant&Pre-Rigid	6R-38 8R-30	MFWD 150 MFWD 170	43,500 54,500	150 150	8	0.111	2.64	1.31	1.81	0.49	6.27 6.61	3.34	2.89	12.51 13.82
NT Plant&Pre-Rigid	8R-38	MFWD 170	52,400	150	8	0.103	2.51	1.11	1.64	0.32	5.16		3.22	10.74
NT Plant&Pre-Rigid	11R-15	MFWD 170	63,900	150	8	0.143	3.41	1.92	3.44	0.71	9.51		4.38	20.24
NT Plant&Pre-Rigid	11R-20	MFWD 170	63,200	150	8	0.115	2.74	1.54	2.73	0.57	7.60		3.52	16.17
NT Plant&Pre-Rigid	12R-20	MFWD 190	65,700	150	8	0.105	2.51	1.58	2.60	0.64	7.34	4.80	3.90	16.05
NT Plant&Pre-Rigid	12R-30	MFWD 190	82,800	150	8	0.070	1.67	1.05	2.18	0.42	5.34		2.60	11.98
NT Plant&Pre-Rigid	15R-15	MFWD 190	82,000	150	8	0.113	2.68	1.69	3.47	0.68	8.54		4.18	19.13
NT Plant&Pre-TwinRow NT Plant&Pre-TwinRow	12R-30/40 8R-30/40	MFWD 225 MFWD 225	170,000 135,000	150 150	8	0.055	1.32	0.98	3.54 4.23	0.40	6.26 8.30	6.53 7.79	2.47	15.27 19.81
NT Plant-Folding	8R-38	MFWD 223	60,400	150	8	0.003	1.84	1.40	1.75	0.38	5.02		2.36	10.63
NT Plant-Folding	8R-38 2x1		93,400	150	8	0.051	1.22	0.69	1.81	0.25	3.98		1.57	8.89
NT Plant-Folding	12R-20	MFWD 190	75,200	150	8	0.098	2.33	1.46	2.76	0.59	7.16		3.62	15.89
NT Plant-Folding	12R-30	MFWD 190	81,700	150	8	0.065	1.55	0.97	2.00	0.39	4.93		2.41	11.05
NT Plant-Folding	12R-38	MFWD 190	93,400	150	8	0.051	1.22	0.77	1.81	0.31	4.12		1.91	9.37
NT Plant-Folding	16R-30	MFWD 190	128,000	150	8	0.049	1.16	0.73	2.35	0.29	4.55		1.81	10.71
NT Plant-Folding NT Plant-Folding	23R-15 24R-20	MFWD 190 MFWD 190	176,000 197,000	150 150	8 8	0.068	1.61	1.02	4.50 3.62	0.41	7.55 5.82	8.29 6.68	2.52	18.36 14.32
NT Plant-Folding	24R-20 24R-30	MFWD 190	204,000	150	8	0.049	0.77	0.48	2.50	0.19	3.97		1.20	9.79
NT Plant-Folding	31R-15	MFWD 225	213,000	150	8	0.050	1.20		4.05					16.25
													(con	tinued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2021 (continued)

Team			Power	Purchase	Annual	Useful	Perf	Labor	Fuel	R&	M	Total	Fi	xed	Total
Property of the property of	Item Name	Size						Edbor	1401						
## Plant-Heigad				dollars	hours	years	hr/ac				\$	/acre			
## Plant-Heigad						-									
Image: Company   Imag	_														
Image: Prince-Regist   G-20															
## Pann-Lagid ## BR-30 MYMP 170 47,000 150 8 0.039 2.33 1.173 0.49 5.07 3.19 2.59 12.06 ## Pann-Lagid ## BR-30 MYMP 170 45,000 150 8 0.039 1.31 1.73 0.49 5.07 3.19 2.59 12.06 ## Pann-Lagid ## BR-30 MYMP 170 55,400 150 8 0.039 1.32 1.42 1.03 1.32 0.59 6.75 1.33 3.27 14.17 ## Pann-Lagid 128-20 MYMP 180 55,400 150 8 0.039 1.33 1.42 1.03 0.34 1.33 1.47 1.33 3.27 14.17 ## Pann-Lagid 128-30 MYMP 180 55,400 150 8 0.039 1.35 0.03 1.50 0.03 1.05 0.05 0.05 1.13 0.03 1.25 0.05 6.75 1.33 3.22 1.11 ## Pann-Lagid 128-30 MYMP 180 73,500 150 8 0.039 1.25 0.03 1.55 0.05 6.75 0.05 0.02 1.25 0.05 ## Pann-Lagid 128-30 MYMP 180 73,500 150 8 0.039 1.25 0.03 1.25 0.05 6.75 0.03 3.22 1.11 ## Pann-Lagid 128-30 MYMP 180 73,500 150 150 8 0.039 1.25 0.03 1.25 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0	NT Plant-Rigid		MFWD 150		150	8	0.130		1.54		0.58	7.05	3.34	3.40	13.80
RF Plant-Nigidi 112-15 MWRD 170															
NP Plant-Highed 113-15 MEWO 170 56,000 150 8 0.333 3.17 1.78 2.88 0.66 3.27 4.07 19.74 NEW PLANT-Highed 126 126 126 126 126 126 126 126 126 126	_														
## Pann-Reigisi   118-20															
No.   Pinner-Regist   128-30   MPMD 190   73,500   150   8   0.05   1.28   0.79   1.80   0.09   4.73   3.22   2.41   10.69	~														
No.   Plant-Twinfow   128-15   MFNN 190   72,700   150   8   0.107   2.40   1.57   2.86   0.63   7.56   5.27   2.38   1.72   1															
Print   Telent   Te															
## Plant Card. in Fire	_														
Peanut Dyl/Invector 4R-38 MFWD 190 13,500 300 15 0.20 0.100 1.46 1.49 0.55 1.56 0.40 3.92 0.35 3.69 7.97 12.36 Peanut Dyl/Invector 4R-38 MFWD 190 33,500 300 15 0.285 3.46 3.73 2.78 1.55 1.12 8.20 1.18 6.88 16.86 Peanut Dyl/Invector 4R-38 MFWD 190 33,500 300 15 0.285 3.73 2.78 1.55 1.12 8.20 1.18 6.88 16.86 Peanut Dyl/Invector 4R-38 MFWD 190 35,800 300 15 0.285 2.73 2.78 1.55 1.12 8.20 1.18 6.88 16.86 Peanut Barvester 4R-30 MFWD 190 35,800 300 20 0.889 12.47 15.08 7.46 6.18 41.19 26.76 37.72 105.88 1.18 1.18 1.18 1.19 2.74 1.18 1.18 1.18 1.18 1.18 1.18 1.18 1.1															
Peanut Dig/Invertor	Peanut Cond.& Lifter	6-Row	MFWD 190	14,800	300	20	0.100	1.46	1.49	0.24	0.60	3.81	0.34	3.69	
Peanut Dig/Invector															
Peanut Public   Peanut Publi															
Peanut Particular   6-Row   MFW   190   35,800   300   20   0.310   4.55   4.63   1.00   1.87   12.07   3.88   11.45   27.41	•														
Peanut Harvester	_				300	20	0.310	4.55	4.63				3.88	11.45	27.41
Peanut FirePre Fold:   1.00															
Peanut Lifter															
Peanut Pittère Fold. 12R-38 MYND 190 92,700 150 8 0.080 1.90 1.02 2.79 0.48 6.39 5.14 2.97 14.51 Peanut Pittère Rigid 8R-30 MYND 190 47,700 150 8 0.152 3.62 2.28 2.79 0.49 6.39 5.14 2.97 14.51 Peanut Pittère Rigid 8R-30 MYND 190 145,700 150 8 0.152 3.62 2.28 2.70 3.09 2.57 5.4 5.64 2.02 2.67 Peanut Pittère Rigid 8R-30 MYND 190 129,000 150 8 0.120 2.86 1.80 5.86 1.80 5.86 1.76 1.76 4.46 15.75 Peanut Pittère Rigid 8R-30 MYND 190 129,000 150 8 0.120 2.86 1.80 5.86 1.80 5.86 1.07 3.11.24 10.76 4.46 15.75 Peanut Pittère Rigid 8R-38 MYND 170 5.400 150 180 180 1.00 1.00 1.00 0.00 0.00 1.00 1															
Peanut PitkPre Rigid															
Peanut FilteFrermin	Peanut Plt&Pre Rigid	8R-30	MFWD 190	47,800		8		3.62	2.28	2.73	0.92	9.57	5.04	5.64	
Pipe Brook   160ac	_														
Pipe Frailer Im/1608   30'   200   130   2,700   100   15   0.003   0.19   0.03   0.00   0.10   0.24   0.00   0.07   0.03															
Plant & Pre-Folding R-38															
Plant & Pre-Folding   12R-20		8R-38	MFWD 170		150	8	0.080	1.90	1.07	1.83	0.40	5.21	3.38	2.44	11.04
Plant & Pre-Folding   12R-30															
Plant & Pre-Polding   12R-38	_														
Plant & Pre-Folding   16R-30   MFWD 190   124,000   150   8 0.050   1.20   0.75   2.36   0.30   4.63   4.34   1.87   10.85     Plant & Pre-Folding   24R-20   MFWD 190   187,000   150   8 0.050   1.20   0.75   3.65   0.30   5.83   6.55   1.87   14.26     Plant & Pre-Folding   24R-30   MFWD 190   187,000   150   8 0.053   1.20   0.75   3.65   0.30   5.83   6.55   1.87   14.26     Plant & Pre-Folding   31R-15   MFWD 190   187,000   150   8 0.053   1.20   0.75   3.65   0.30   6.47   1.00   1.25   1.86     Plant & Pre-Folding   31R-15   MFWD 225   196,000   150   8 0.050   1.20   0.92   3.85   0.38   6.47   1.00   2.35   1.86     Plant & Pre-Rigid   4R-30   2WD 130   31,600   150   8 0.050   1.20   3.85   0.38   6.47   1.00   2.35   1.86     Plant & Pre-Rigid   4R-30   2WD 130   31,600   150   8 0.050   1.20   8.050   1.20   0.75   0.05   0.05   0.05   0.05     Plant & Pre-Rigid   6R-30   MFWD 150   38,500   150   8 0.101   2.41   1.55   0.55   0.95   0.67   7.95   3.66   0.328   14.86     Plant & Pre-Rigid   6R-38   MFWD 150   38,500   150   8 0.101   2.41   1.55   1.59   0.60   7.45   5.82   2.77   1.40     Plant & Pre-Rigid   8R-30   MFWD 170   47,800   150   8 0.101   2.41   1.55   1.90   0.60   4.75   5.82   2.47   1.40     Plant & Pre-Rigid   11R-15   MFWD 170   54,700   150   8 0.101   2.61   1.90   2.40   0.74   0.75   5.92   0.40   4.75   2.35   2.44   9.71     Plant & Pre-Rigid   11R-15   MFWD 170   54,700   150   8 0.101   2.61   1.90   0.7	_														
Plant & Pre=Folding   24R-30   MFWD 190   197,000   150   8 0.050   1.20   0.75   3.66   0.30   5.83   6.55   1.87   14.26   1.87   1															
Plant & Pre-Folding Jar-15 MFWD 190 197,000 150 8 0.033 0.80 0.50 2.50 0.20 4.01 4.60 1.25 9.87 Plant & Pre-Folding Jar-15 MFWD 225 189,000 150 8 0.052 1.20 0.89 3.50 0.36 6.17 1.0 2.32 15.84 Plant & Pre-Fidding Jar-15 MFWD 225 189,000 150 8 0.050 1.20 0.89 3.59 0.36 6.07 6.62 2.25 14.95 Plant & Pre-Rigid R-30 2ND 130 31,600 150 8 0.050 1.20 0.89 3.59 0.36 6.07 6.62 2.25 14.95 Plant & Pre-Rigid R-30 2ND 130 31,600 150 8 0.050 1.20 0.89 3.59 0.36 6.07 6.62 2.25 14.95 Plant & Pre-Rigid R-30 2ND 130 32,600 150 8 0.150 8 0.159 3.21 1.03 1.03 1.00 1.00 1.00 1.00 1.00 1.0	=														
Plant & Pre-Polding   31R-15   MFWD 225   196,000   150   8   0.050   1.24   0.92   3.85   0.36   6.41   7.10   2.32   15.84     Plant & Pre-Polding   32R-15   MFWD 225   189,000   150   8   0.050   1.26   0.89   3.95   0.36   6.07   6.62   2.25   14.95     Plant & Pre-Rigid   4R-30   2WD 130   32,600   150   8   0.159   3.70   1.63   1.95   0.56   7.95   3.60   3.28   14.86     Plant & Pre-Rigid   6R-30   MFWD 150   32,600   150   8   0.159   3.71   1.63   1.95   0.56   7.41   3.67   3.51   14.60     Plant & Pre-Rigid   6R-30   MFWD 150   38,500   150   8   0.159   3.71   1.26   1.54   0.47   5.82   2.84   2.77   11.43     Plant & Pre-Rigid   8R-30   MFWD 170   47,800   150   8   0.160   2.24   1.35   1.82   0.50   6.09   3.35   3.09   12.54     Plant & Pre-Rigid   1R-35   MFWD 170   47,800   150   8   0.160   2.24   1.35   1.82   0.50   6.09   3.35   3.09   12.54     Plant & Pre-Rigid   1R-35   MFWD 170   47,800   150   8   0.160   2.24   1.35   1.82   0.50   6.09   3.35   3.09   12.54     Plant & Pre-Rigid   1R-20   MFWD 170   54,700   150   8   0.160   2.63   1.48   2.24   0.55   6.92   4.14   3.38   1.44     Plant & Pre-Rigid   1R-20   MFWD 170   54,700   150   8   0.161   2.63   1.48   2.24   0.55   6.92   4.14   3.38   14.44     Plant & Pre-Rigid   1R-20   MFWD 190   72,700   150   8   0.161   6.60   1.01   1.84   0.41   4.87   3.39   2.50   10.77     Plant & Pre-Rigid   1R-20   MFWD 190   72,700   150   8   0.161   6.60   0.94   3.20   0.65   6.95   0.24   3.46   0.77     Plant & Pre-Rigid   1R-80   MFWD 190   72,700   150   8   0.160   6.00   0.10   1.84   0.14   4.87   0.39   2.50   10.77     Plant & Pre-Rigid   1R-80   MFWD 190   72,700   150   8   0.067   1.60   1.01   1.84   0.14   4.87   0.39   2.50   10.77     Plant & Pre-Rigid   1R-80   MFWD 190   69,500   150   8   0.067   1.60   1.01   1.84   0.14   4.87   0.39   2.50   10.77     Plant & Pre-Rigid   1R-80   MFWD 190   69,500   150   8   0.067   1.60   1.01   1.84   0.14   4.87   0.55   0.57   0.15   0.17     Plant & Pre-Rigid   1R-80   MFWD															
Plant & Pre-Folding   32R-15   MFWD 225   189,000   150   8   0.050   1.20   0.89   3.59   0.36   6.07   6.62   2.25   14.95   Plant & Pre-Rigid   4R-30   2WD 130   31,600   150   8   0.203   4.82   2.07   2.40   0.71   10.02   4.43   4.83   Plant & Pre-Rigid   4R-38   2WD 130   32,600   150   8   0.155   3.79   1.63   1.59   1.95   0.65   7.95   3.60   3.28   14.83   Plant & Pre-Rigid   6R-38   MFWD 150   38,500   150   8   0.155   3.1   1.59   1.99   0.60   7.41   3.67   3.51   14.60   Plant & Pre-Rigid   6R-38   MFWD 150   38,500   150   8   0.101   2.15   1.25   1.99   0.60   7.41   3.67   3.51   14.60   Plant & Pre-Rigid   6R-38   MFWD 170   47,800   150   8   0.101   2.15   1.25   1.95   0.50   6.09   3.55   3.09   12.54   Plant & Pre-Rigid   8R-38   MFWD 170   47,800   150   8   0.101   2.15   1.98   3.04   0.74   5.22   2.53   2.44   9.73   Plant & Pre-Rigid   11R-15   MFWD 170   54,700   150   8   0.168   3.15   1.98   3.04   0.74   9.25   5.66   4.51   19.40   Plant & Pre-Rigid   11R-20   MFWD 170   54,700   150   8   0.101   2.63   1.48   2.24   0.55   6.92   4.14   3.38   14.44   Plant & Pre-Rigid   11R-20   MFWD 170   54,700   150   8   0.101   2.63   1.48   2.24   0.55   6.92   4.14   3.38   14.44   Plant & Pre-Rigid   12R-30   MFWD 190   72,700   150   8   0.101   2.63   1.48   2.24   0.55   6.92   4.14   3.38   14.44   Plant & Pre-Rigid   12R-30   MFWD 190   72,700   150   8   0.101   2.63   1.48   0.14   4.87   3.39   2.50   10.77   Plant & Pre-Rigid   12R-30   MFWD 190   72,700   150   8   0.102   1.60   1.01   1.84   0.41   4.48   3.39   2.50   10.77   Plant & Pre-Primre   12R-30/40   MFWD 225   160,000   150   8   0.108   1.10   1.60   1.01   1.84   0.41   4.87   3.39   2.50   10.77   Plant & Pro-Primre   12R-30   MFWD 190   53,700   150   8   0.080   1.10   0.14   4.88   0.35   7.79   7.15   3.66   18.51   Plant & Prolding   12R-30   MFWD 190   53,700   150   8   0.080   1.10   0.14   0.99   1.50   0.37   0.15   0.15   0.15   0.15   0.15   0.15   0.15   0.15   0.15   0.15   0.15   0.15   0.	_														
Plant & Pre-Rigid 6R-30 MFWD 150 39,300 150 8 0.159 3.79 1.63 1.95 0.56 7.95 3.60 3.28 14.83 Plant & Pre-Rigid 6R-30 MFWD 150 39,300 150 8 0.155 2.3 1.26 1.59 1.99 0.60 7.41 3.67 3.51 14.43 Plant & Pre-Rigid 6R-38 MFWD 150 38,350 150 8 0.1016 2.53 1.26 1.54 0.47 5.82 2.84 2.77 11.43 Plant & Pre-Rigid 8R-30 MFWD 170 47,800 150 8 0.101 2.41 1.35 1.82 0.50 6.99 3.35 3.09 12.54 Plant & Pre-Rigid 11R-15 MFWD 170 54,000 150 8 0.101 2.63 1.80 2.40 0.57 6.92 4.14 3.38 14.44 Plant & Pre-Rigid 11R-20 MFWD 170 54,000 150 8 0.101 2.41 1.35 1.80 3.04 0.74 9.28 5.60 4.51 19.40 Plant & Pre-Rigid 12R-20 MFWD 190 55,700 150 8 0.101 2.41 1.35 1.80 5.04 0.50 6.92 4.14 3.38 14.44 Plant & Pre-Rigid 12R-30 MFWD 190 72,700 150 8 0.101 2.41 1.35 1.80 0.65 6.62 4.14 3.38 14.44 Plant & Pre-Rigid 12R-30 MFWD 190 72,700 150 8 0.065 1.60 1.01 1.44 0.41 4.67 3.39 2.50 10.77 Plant & Pre-Rigid 15R-15 MFWD 190 69,500 150 8 0.068 2.57 1.60 1.01 1.44 0.41 4.67 3.39 2.50 10.77 Plant & Pre-TwinRow 8R-30/40 MFWD 225 129,000 150 8 0.058 1.26 0.94 3.20 0.38 6.81 5.90 2.37 14.09 Plant & Pre-TwinRow 8R-30/40 MFWD 225 129,000 150 8 0.058 1.90 1.90 1.90 1.90 1.90 1.90 1.90 1.90	_														
Plant & Pre-Rigid 6R-30 MFWD 150 38,500 150 8 0.135 3.21 1.59 1.99 0.60 7.41 3.67 3.51 14.60 Plant & Pre-Rigid 6R-38 MFWD 150 38,500 150 8 0.106 2.41 1.35 1.26 0.50 6.09 3.35 3.09 12.54 Plant & Pre-Rigid 8R-38 MFWD 170 47,800 150 8 0.101 2.41 1.35 1.82 0.50 6.09 3.35 3.09 12.54 Plant & Pre-Rigid 1R-15 MFWD 170 54,700 150 8 0.101 2.41 1.35 1.82 0.50 6.09 3.35 3.09 12.54 Plant & Pre-Rigid 1R-15 MFWD 170 54,700 150 8 0.101 2.41 1.35 1.98 0.00 4.75 2.53 2.44 9.73 1.91 1.91 1.91 1.91 1.91 1.91 1.91 1.9	_														
Plant & Pre-Rigid	_														
Plant & Pre-Rigid	_														
Plant & Pre-Rigid   11R-15															
Plant & Pre-Rigid 12R-20 MFWD 170 54,000 150 8 0.110 2.43 1.48 2.24 0.55 6.92 4.14 3.38 14.44 12															
Plant & Pre-Rigid   12R-20   MFWD 190   55,700   150   8   0.101   2.41   1.51   2.12   0.61   6.66   3.90   3.75   14.32	_														
Plant & Pre-Rigid   12R-30   MFWD 190   72,700   150   8   0.067   1.60   1.60   1.64   0.41   4.87   3.39   2.50   10.77															
Plant & Pre-Rigid   15R-15   MFWD 190   69,500   150   8   0.108   2.57   1.62   2.83   0.65   7.69   5.21   4.01   16.92	_			,											
Plant & Pre-TwinRow   8R-30/40   MFWD 225   129,000   150   8   0.080   1.90   1.42   3.88   0.58   7.79   7.15   3.56   18.51     Plant - Folding   8R-38   2x1   MFWD 170   53,700   150   8   0.074   1.76   0.99   1.50   0.37   4.64   2.76   2.27   9.67     Plant - Folding   12R-20   MFWD 170   83,400   150   8   0.049   1.17   0.66   1.55   0.24   3.64   2.85   1.51   8.01     Plant - Folding   12R-20   MFWD 190   65,200   150   8   0.049   2.23   1.41   2.30   0.57   6.52   4.24   3.48   14.25     Plant - Folding   12R-38   MFWD 190   71,700   150   8   0.062   1.49   0.94   1.69   0.38   4.50   3.11   2.32   9.94     Plant - Folding   12R-38   MFWD 190   83,400   150   8   0.049   1.17   0.74   1.55   0.30   3.77   2.85   1.83   8.46     Plant - Folding   23R-15   MFWD 190   114,000   150   8   0.047   1.11   0.70   2.01   0.28   4.12   3.71   1.74   9.58     Plant - Folding   24R-20   MFWD 190   177,000   150   8   0.047   1.11   0.70   3.12   0.28   4.12   3.71   1.74   9.58     Plant - Folding   24R-20   MFWD 190   177,000   150   8   0.047   1.11   0.70   3.12   0.28   5.23   5.76   1.74   12.74     Plant - Folding   31R-15   MFWD 25   187,000   150   8   0.048   1.15   0.86   3.41   0.35   5.79   6.29   1.6   14.52     Plant - Folding   31R-15   MFWD 25   180,000   150   8   0.048   1.15   0.86   3.41   0.35   5.79   6.29   1.6   14.52     Plant - Rigid   4R-30   2WD 130   24,200   150   8   0.148   3.52   1.52   1.40   0.52   6.97   2.59   6.28   1.80     Plant - Rigid   4R-30   2WD 130   24,200   150   8   0.148   3.52   1.52   1.40   0.52   6.97   2.59   3.86   1.58     Plant - Rigid   4R-30   MFWD 150   32,000   150   8   0.148   3.52   1.55   1.40   0.52   6.97   2.59   3.86   1.58     Plant - Rigid   4R-30   MFWD 150   32,000   150   8   0.148   3.52   1.55   1.40   0.52   6.97   2.59   3.86   1.58     Plant - Rigid   4R-30   MFWD 150   32,000   150   8   0.148   3.52   1.55   1.40   0.52   6.97   2.59   3.86   1.58     Plant - Rigid   4R-30   MFWD 150   31,100   150   8   0.048   1.17   0.87		15R-15													
Plant - Folding   RR-38															
Plant - Folding															
Plant - Folding         12R-30         MFWD 190         71,700         150         8         0.062         1.49         0.94         1.69         0.38         4.50         3.11         2.32         9.94           Plant - Folding         16R-30         MFWD 190         114,000         150         8         0.047         1.11         0.70         2.01         0.28         4.12         3.71         1.74         9.88           Plant - Folding         16R-30         MFWD 190         157,000         150         8         0.065         1.55         0.97         3.85         0.39         6.78         7.10         2.41         16.30           Plant - Folding         24R-20         MFWD 190         177,000         150         8         0.047         1.11         0.70         3.12         0.28         5.23         5.76         1.74         12.74           Plant - Folding         24R-30         MFWD 190         184,000         150         8         0.047         1.11         0.70         3.12         0.28         5.76         1.74         12.74           Plant - Folding         31R-15         MFWD 225         187,000         150         8         0.048         1.15         0.86 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>															
Plant - Folding   12R-38   MFWD 190   83,400   150   8   0.049   1.17   0.74   1.55   0.30   3.77   2.85   1.83   8.46     Plant - Folding   16R-30   MFWD 190   114,000   150   8   0.047   1.11   0.70   2.01   0.28   4.12   3.71   1.74   9.58     Plant - Folding   23R-15   MFWD 190   177,000   150   8   0.065   1.55   0.077   3.85   0.39   6.78   7.10   2.41   16.30     Plant - Folding   24R-20   MFWD 190   177,000   150   8   0.047   1.11   0.70   3.12   0.28   5.23   5.76   1.74   12.74     Plant - Folding   24R-30   MFWD 190   184,000   150   8   0.047   1.11   0.70   3.12   0.28   5.23   5.76   1.74   12.74     Plant - Folding   31R-15   MFWD 225   187,000   150   8   0.048   1.15   0.86   3.41   0.35   5.79   6.29   2.16   14.25     Plant - Folding   32R-15   MFWD 225   187,000   150   8   0.048   1.15   0.86   3.41   0.35   5.79   6.29   2.16   14.25     Plant - Rigid   4R-30   2WD 130   24,200   150   8   0.188   4.47   1.93   1.71   0.66   8.78   3.15   3.86   15.80     Plant - Rigid   4R-38   2WD 130   25,300   150   8   0.148   3.52   1.52   1.40   0.55   6.57   2.59   3.04   12.62     Plant - Rigid   6R-30   MFWD 150   32,000   150   8   0.125   2.98   1.48   1.50   0.56   6.63   2.77   3.26   12.58     Plant - Rigid   8R-30   MFWD 170   40,500   150   8   0.094   2.23   1.21   0.44   5.12   2.13   2.57   9.83     Plant - Rigid   11R-15   MFWD 170   47,300   150   8   0.074   1.76   0.99   1.07   0.37   4.21   1.97   2.27   8.46     Plant - Rigid   11R-20   MFWD 170   46,600   150   8   0.094   2.23   1.41   2.10   0.56   6.34   3.14   3.48   12.59     Plant - Rigid   12R-30   MFWD 190   63,400   150   8   0.094   2.23   1.41   2.12   0.32   5.80   3.92   1.90   11.63     Plant - Rigid   12R-30   MFWD 190   63,400   150   8   0.094   2.23   1.41   2.12   0.32   5.80   3.92   1.90   11.63     Plant - Rigid   12R-30   MFWD 190   63,400   150   8   0.094   2.23   1.41   2.12   0.32   5.80   3.92   1.90   11.63     Plant - Rigid   12R-30   MFWD 190   63,400   150   8   0.094   2.23   1.41   2.12   0.32	_														
Plant - Folding															
Plant - Folding															
Plant - Folding	_														
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Roller/Cultipacker 12' 2WD 130 6,720 300 12 0.124 1.82 1.27 0.19 0.43 3.73 0.26 2.55 6.55															
(continued)														2.55	6.55
														(cor	ntinued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2021 (continued)

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel		P.U.	Total Direct		P.U.	Total Cost
			dollars	hours	years	hr/ac				\$	acre			
Roller/Cultipacker	20'	MFWD 150	10,900	300	12	0.074	1.09	0.88	0.19	0.33	2.50	0.25	1.93	4.69
Roller/Cultipacker	30'	MFWD 170	14,300	300	12	0.049	0.73	0.66	0.16	0.24	1.81	0.22	1.51	3.55
Roller/Cultipacker Roller/Stubble	38' 20'	MFWD 225 2WD 50	19,600 12,700	300 300	12 12	0.039	0.57	0.69	0.18	0.28	1.74	0.24	1.74	3.72 2.25
Roller/Stubble	32'	MFWD 225	22,200	300	12	0.046	0.68	0.82	0.24	0.33	2.09	0.32	2.07	4.48
Rotary Cutter	7'	MFWD 130	4,500	185	10	0.168	2.47	1.72	0.61	0.66	5.47	0.41	3.85	9.74
Rotary Cutter Rotary Cutter-Flex	12' 15'	2WD 150 MFWD 150	13,100 22,100	185 185	10 10	0.098	1.44	1.16	1.04	0.34	3.98	0.70	1.97	6.67 6.83
Rotary Cutter-Flex	20'	MFWD 150	30,000	185	10	0.058	0.86	0.69	1.43	0.26	3.25	0.97	1.53	5.76
Row Cond & Inc-Fold.	26'	MFWD 190	28,500	100	10	0.063	1.21	0.94	0.45	0.38	3.00	1.84	2.34	7.19
Row Cond & Inc-Fold. Row Cond & Inc-Rigid	38' 13'	MFWD 225 2WD 130	38,000 16,000	100 100	10 10	0.043	0.83	0.76 1.29	0.41	0.31	2.33 4.69	1.68	1.92	5.94 9.36
Row Cond & Inc-Rigid	21'	2WD 170	21,600	100	10	0.078	1.50	1.05	0.42	0.29	3.27	1.73	1.78	6.78
Row Cond & Inc-Rigid	26'	MFWD 190	24,700	100	10	0.026	0.51	0.39	0.16	0.16	1.23	0.67	0.98	2.88
Row Cond Folding Row Cond Folding	26' 38'	MFWD 225 MFWD 225	21,100 27,800	100 100	10 10	0.059	0.87	1.05	0.31	0.43	2.68 1.90	1.28	2.65 1.81	6.62 4.87
Row Cond Rigid	13'	2WD 130	8,670	100	10	0.119	1.75	1.22	0.25	0.42	3.65	1.05	2.45	7.16
Row Cond Rigid	21'	2WD 170	14,200	100	10	0.073	1.08	0.99	0.26	0.27	2.61	1.07	1.67	5.36
Row Cond Rigid Row Cond./Roll-Fol	26' 30'	MFWD 190 MFWD 190	17,300 46,200	100 160	10 10	0.059	0.87	0.89	0.25	0.36	2.39	1.05	2.20	5.65 7.10
Row Cond./Roll-Fold.	26 <b>'</b>	MFWD 190	26,500	160	10	0.072	1.05	1.07	0.47	0.43	3.05	1.21	2.66	6.93
Row Cond./Roll-Fold.	40'	MFWD 225	34,000	160	10	0.046	0.68	0.83	0.39	0.34	2.25	1.01	2.08	5.35
Row Cond./Roll-Rig Row Cond./Roll-Rig	21' 26'	MFWD 190 MFWD 190	25,800 28,400	160 160	10 10	0.089	1.31	1.33	0.57 0.51	0.54	3.76 3.08	1.46	3.29	8.53 7.05
Spin Spreader	5 ton	MFWD 190	11,600	100	8	0.042	0.99	0.62	0.27	0.25	2.15	0.53	1.55	4.24
Spray (ATV Ropewick)	75 <b>"</b>	800 CC	720	200	8	0.260	5.00	0.34	0.08	0.49	5.92	0.10	1.89	7.93
Spray (ATV) Spray (Band)	20' 27' Fold	800 CC MFWD 170	1,690 7,400	200 200	8	0.084	1.62	0.11	0.06	0.16	1.96 2.57	0.07	0.61 1.91	2.66 4.73
Spray (Band)	40' Fold	MFWD 170	9,300	200	8	0.042	0.81	0.56	0.18	0.21	1.77	0.21	1.28	3.27
Spray (Band)	50' Fold	MFWD 170	10,100	200	8	0.033	0.65	0.45	0.16	0.16	1.43	0.18	1.03	2.65
Spray (Band)	60' Fold 13' Rigid	MFWD 170 MFWD 150	13,200 7,860	200 200	8	0.028	0.54 2.50	0.37 1.53	0.17	0.14	1.23	0.20	0.85 3.38	2.29 9.03
Spray (Bcast/HB) Spray (Bcast/HB)	20' Rigid	MFWD 150	9,400	200	8	0.084	1.62	0.99	0.37	0.37	3.37	0.43	2.19	6.00
Spray (Bcast/HB)	27' Fold	MFWD 170	16,200	200	8	0.062	1.20	0.83	0.47	0.31	2.83	0.55	1.91	5.29
Spray (Bcast/HB)	27' Rigid 30' Fold	MFWD 170 MFWD 170	10,900 18,900	200 200	8	0.062	1.20	0.83	0.32	0.31	2.67	0.37	1.91 1.71	4.95 4.92
Spray (Bcast/HB) Spray (Bcast/HB)	40' Fold	MFWD 170	19,100	200	8	0.038	0.81	0.75	0.49	0.20	1.96	0.44	1.28	3.69
Spray (Broadcast)	27 <b>'</b>	MFWD 170	7,400	200	8	0.062	1.20	0.83	0.21	0.31	2.57	0.25	1.91	4.73
Spray (Broadcast)	40' 50'	MFWD 170 MFWD 170	9,300 10,100	200 200	8	0.042	0.81	0.56	0.18	0.21	1.77 1.43	0.21	1.28	3.27 2.65
Spray (Broadcast) Spray (Broadcast)	60 <b>'</b>	MFWD 170	13,200	200	8	0.033	0.53	0.43	0.10	0.14	1.43	0.10	0.85	2.29
Spray (Direct/Hood)	8R-30	MFWD 170	17,000	200	8	0.084	1.62	1.13	0.67	0.42	3.85	0.78	2.57	7.21
Spray (Direct/Hood) Spray (Direct/Hood)	8R-38 12R-30	MFWD 170 MFWD 170	17,900 23,900	200 200	8	0.066	1.28	0.89	0.56	0.33	3.07 2.75	0.65	2.03	5.76 5.20
Spray (Direct/Hood)	12R-38	MFWD 170	25,100	200	8	0.036	0.85	0.59	0.52	0.22	2.19	0.60	1.35	4.16
Spray (Direct/Layby)	8R-30	MFWD 170	15,500	200	8	0.084	1.62	1.13	0.61	0.42	3.79	0.71	2.57	7.09
Spray (Direct/Layby) Spray (Direct/Layby)	8R-38 8R-38 2x1	MFWD 170 MFWD 170	15,500 19,400	200 200	8	0.066	1.28	0.89	0.48	0.33	3.00 2.07	0.56	2.03	5.60 3.90
Spray (Direct/Layby)	12R-30	MFWD 170	19,400	200	8	0.056	1.08	0.75	0.51	0.28	2.63	0.59	1.71	4.94
Spray (Direct/Layby)	12R-38	MFWD 170	19,400	200	8	0.044	0.85	0.59	0.40	0.22	2.07	0.47	1.35	3.90
Spray (Direct/Layby) Spray (Levee Leaper)	16R-20/30 50'	MFWD 225 MFWD 225	22,500 12,800	200 200	8 8	0.062	1.20	1.11	0.66	0.45	3.43 1.69	0.76	2.78 1.50	6.98 3.43
Spray (Pull Type)	60 <b>'</b>	MFWD 225	40,700	200	8	0.028	0.54	0.49	0.53	0.20	1.78	0.62	1.25	3.66
Spray (Pull Type)	80'	MFWD 225	52,000	200	8	0.021	0.40	0.37	0.51	0.15	1.45	0.59	0.93	2.98
Spray (Pull Type) Spray (Pull Type)	90' 120'	MFWD 225 MFWD 225	52,900 80,900	200 200	8 8	0.018	0.36	0.33	0.46	0.13	1.29	0.54	0.83	2.67
Spray (Ropewick)	20'	MFWD 190	4,100	200	8	0.084	1.62	1.26	0.16	0.51	3.56	0.18	3.12	6.88
Spray (Spot)	27'	MFWD 170	7,400	200	8	0.062	1.20	0.83	0.21	0.31	2.57	0.25	1.91	4.73
Spray (Spot) Spray (Spot)	40' 50'	MFWD 170 MFWD 170	9,300 10,100	200 200	8	0.042	0.81	0.56	0.18	0.21	1.77 1.43	0.21	1.28	3.27 2.65
Spray (Spot)	60 <b>'</b>	MFWD 170 MFWD 225	13,200	200	8	0.033	0.53	0.49	0.10	0.20	1.43	0.10	1.25	2.87
Stalk Shredder	14'	MFWD 150	14,900	200	10	0.117	1.73	1.39	1.53	0.52	5.18	0.89	3.06	9.14
Stalk Shredder Flex Stalk Shredder-Flail	20' 12'	MFWD 150 MFWD 150	33,100 21,700	200 200	10 10	0.082	1.21 2.01	0.97 1.62	2.38	0.36	4.94 6.86	1.39	2.14	8.47 11.96
Stalk Shredder-Flail	15'	MFWD 150	24,500	200	10	0.110	1.61	1.29	2.35	0.49	5.76	1.37	2.85	9.99
Stalk Shredder-Flail	18'	MFWD 150	28,900	200	10	0.091	1.34	1.08	2.31	0.40	5.15	1.35	2.38	8.88
Stalk Shredder-Flail Stalk Shredder-Flail	20' 25'	MFWD 150	30,400	200 200	10 10	0.082	1.21	0.97	2.19	0.36	4.74 4.72	1.27	2.14	8.17 7.99
Stark Shredder-Frair Strip Till	25. 8R-38	MFWD 150 MFWD 225	46,400 28,100	150	10	0.066	0.96	1.09	0.75	0.29	3.19	1.17	2.73	7.10
Strip Till	12R-30	MFWD 225	68,900	150	10	0.061	0.90	1.09	1.83	0.44	4.28	2.88	2.73	9.90
Strip Till	12R-40	MFWD 225	67,200	150	10	0.046	0.67	0.81	1.34	0.33	3.17	2.11	2.05	7.34
Subsoiler Subsoiler	3 shank 4 shank	MFWD 190 MFWD 225	6,360 11,210	100 100	15 15	0.204	2.99	3.05 2.72	0.43	1.23	7.72 6.67	1.02	7.55 6.81	16.30 14.84
Subsoiler	5 shank	MFWD 225	14,300	100	15	0.122	1.79	2.16	0.58	0.89	5.43	1.37	5.43	12.24
Subsoiler low-till	6 shank	MFWD 225	19,400	100	15	0.102	1.49	1.81	0.66	0.74	4.71	1.55	4.53	10.80
Subsoiler low-till	8 shank	MFWD 225	21,400	100	15	0.076	1.12	1.35	0.54	U.55	3.58	1.28	3.39	8.26

Labor: Includes labor from Power unit plus additional labor from the implement. Total Direct: Does not include interest on operating capital.

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2021

TEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
ADJUVANTS			Apron Maxx RTA	ΟZ	1.69
Agri-Dex	pt	2.42	Artisan	ΟZ	0.23
AMS SuperMax	pt	3.81	Avaris	ΟZ	0.35
Class Act NG	pt	1.75	Avicta Complete Bean		3.91
Crop Oil Conc. (Pet.)	-	2.86	Bravo Weather Stick	pt	5.30
Crop Oil Conc. (Veg.)	_	2.90	Captan 50 WP	lb	5.94
Dyne-A-Pak	pt	5.16	Convoy	OZ	0.95
-	-	3.40	Convoy Cotton Seed Trt.	acre	
Fire-Zone	pt				
Herbimax	pt	3.99	CruiserMaxx Vibrance		4.75
Induce	pt	3.48	Elatus	ΟZ	2.94
MSO	pt	2.40	Flint Extra	ΟZ	8.88
Penetrator Plus	pt	2.90	Headline EC	ΟZ	1.83
Surfactant	pt	3.30	Miravis Top	ΟZ	1.44
CLEANING			Prior Xemium	ΟZ	4.53
Cleaning Peanuts	ton	18.00	Propimax EC	pt	11.10
CROP CONSULTANT			Prosaro	OZ	2.42
Corn Consultant	acre	6.00	Provost Optimum	OZ	2.43
		8.00	<del>-</del>		1.50
Cotton Consultant	acre		Quadris Ton	ΟZ	
Peanut Consultant	acre	9.25	Quadris Top	ΟZ	2.37
Rice Consultant	acre	8.00	Quadris Top SBX	ΟZ	1.99
Sorghum Consultant	acre	6.00	Quilt	pt	16.63
Soybeans Consultant	acre	6.50	Quilt XCEL	pt	19.82
Wheat Consultant	acre	5.50	Stratego	pt	21.97
CUSTOM FERTILIZE			Stratego YLD	ΟZ	3.46
App Fert by Air	cwt	7.50	Tilt 3.6 EC	ΟZ	0.76
App Fert by Air(Mi	appl	7.50	Tilt/ Bravo SE	ΟZ	0.76
Custom Apply Fert	acre	7.50	Trivapro	OZ	1.53
	acre	7.50	<u> </u>	02	1.55
CUSTOM LIME		45 45	GINNING		0 11
Lime (Spread)	ton	47.45	Gin & Haul	lb	0.11
CUSTOM PLANT			GROWTH REGULATORS		
Custom Plant	acre	7.50	Mepex	ΟZ	0.06
Custom Plant Air	cwt	7.50	Mepichlor 4.2%	ΟZ	0.06
CUSTOM SPRAY			Mepiquat	ΟZ	0.06
App by Air ( 3 gal)	appl	5.50	Mepstar 6	ΟZ	0.08
App by Air (5 gal)	appl	7.00	Palisade	ΟZ	1.13
App by Air (10 gal)	appl	9.00	Pentia	OZ	0.45
Custom Spray Ground	acre	7.00	Pix WSB	ΟZ	1.37
DRYING	_		Stance	ΟZ	1.24
Dry Corn	bu	0.19	Veto	ΟZ	0.06
Dry Grain Sorghum	cwt	0.25	HARVEST AIDS		
Dry Peanuts	ton	24.00	Adios	ΟZ	0.99
Dry Rice	bu	0.40	Boll Buster	ΟZ	0.24
ERADICATION FEE			Def/Folex	pt	10.21
Eradication	acre	1.00	Defol 5	gal	6.77
FERTILIZERS	2010	2.00	Display	OZ	9.63
Agrotain Ultra	nt	11.30			4.00
2	pt		Ethephon 6E	pt ~+	
Amm Sulfate (21% N)	cwt	18.66	Finish 6	pt	8.00
Boron Plus	pt	2.56	Folex 6EC	pt	10.21
DAP	cwt	20.99	Freefall SC	ΟZ	1.59
Fert 10-34-0	cwt	24.08	Ginstar EC	pt	26.68
Fert 10-34-0	gal	2.80	Gramoxone SL	ΟZ	0.19
Fert 11-37-0	cwt	28.53	Sharpen	ΟZ	6.04
Fert 41-0-0-4	cwt	18.22	Sodium Chlorate 5L	gal	6.77
Lime	ton	37.45	SuperBoll	OZ	0.27
NBPT	pt	11.06	Thidiazuron 4lb	OZ OZ	1.49
	-				
Phosphorus (46% P205)		17.31	Tribufos 61b	pt	10.21
Potash (60% K20)	cwt	22.11	Vacate	ΟZ	1.39
Sulfur Plus	pt	2.62	HAULING		
UAN (32% N)	cwt	12.03	Haul Corn	bu	0.23
UAN (32%)	gal	1.34	Haul Peanuts	ton	14.50
UAN + Sulfur (28%)	cwt	14.49	Haul Rice	bu	0.35
UAN + Sulfur (28%)	gal	1.61	Haul Sorghum	bu	0.25
Urea, Solid (46% N)	cwt	19.74	Haul Soybeans	bu	0.27
Zinc Plus		2.99	Haul Wheat	bu	
	pt	۷.23		ьu	0.26
TUNGICIDES		4 0-	HERBICIDES		0
Abound	OZ	1.83	2,4-D Amine 4	pt	2.25
Alfa Guard	lb	1.31	2,4-D Ester	pt	2.68
Allegiance Flowabl	OZ	5.27	AAtrex 4L	pt	2.23
Ameristar Top	OZ	2.51	Accent Q	OZ	19.09
Approach Prima	pt	28.11	Acuron	OZ	0.53
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Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2021 (continued)

Anima	ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
Anthem Flex			dollars			dollars
Anthem Maxx Armeson Pro	Aim	ΟZ	5.67	Harmony Extra SG	ΟZ	11.06
Armezon Pro		OZ			ΟZ	
Attrazine 4L         pt         1.91         Intimidator         oz         0.56           Authority First         1b         3.59         Leadoff         oz         5.61           Authority First         1b         3.59         Leadoff         oz         5.61           Authority Maxx         1b         3.84         Liberty 280         oz         0.44           Authority Maxx         1b         3.24         Loyant         oz         2.21           Avatar         pt         4.52         Metalocal         0.14         44           Avatar         pt         4.52         Metalocal         0.7         1.55         5.9           Milal XL         oz         1.15         Metribuzin 4L         pt         9.04           Milal XL         oz         1.15         Metribuzin 75         1b         18.30           James         pt         6.67         MSM         pt         1.80         3.83           Jascadax         pt         1.10         Oaprey         oz         3.50           Jascadax         pt         1.63         Parallel         pt         5.65           Jascadax         pt         1.64         Outlook						
Leading   90F   1b   3.59				<u>=</u>		
untbority First         1b         73.87         League         oz         3.83           untbority Maxx         1b         58.84         Liberty 200         oz         0.44           untbority MTZ         1b         43.24         Lloyant         oz         2.21           uvatar         pt         8.50         Makaze         oz         0.14           uvatar         pt         4.52         Metalizini 4L         pt         9.04           uxial XL         oz         1.15         Metribuzin 4L         pt         9.04           uxial NL         oz         1.15         Metribuzin 75         1b         18.30           uxial XL         oz         1.15         Nexpath         oz         3.86           uxial XL         pt         6.67         MSMA         pt         3.86           uxial XL         pt         6.67         MSMA         pt         3.83           uxial XL         pt         6.67         MSMA         pt         3.86           uxial XL         pt         6.67         MSMA         pt         3.83           uxial XL         pt         6.67         MSMA         pt         3.86 <t< td=""><td></td><td>-</td><td></td><td></td><td></td><td></td></t<>		-				
unthority Blite         pt         16.43         Lexar         pt         7.55           unthority MTZ         lb         58.84         Liberty 280         oz         0.44           unthority MTZ         lb         43.24         Loyant         oz         0.14           vavatar         pt         4.52         Metolachlor         pt         3.59           uvenger         pt         4.52         Metolachlor         pt         3.59           uxial XL         oz         1.15         Metribuzin 4L         pt         9.04           uxial XL         oz         1.15         Newpath         oz         3.83           uxiam         pt         6.67         MSM         pt         1.83           uxiam         pt         4.15         Newpath         oz         3.83           uxiam         pt         4.15         Newpath         oz         3.83           uxiam         pt         4.16         Outlook         pt         7.66           uxiam         pt         4.18         Parallel         pt         7.66           uxiam         pt         4.28         Paraguat         oz         0.18           uxiam <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
unthority Maxx         1b         58.84         Liberty 280         oz         0.44           unthority MTZ         1b         43.24         Loyant         oz         2.21           unthority MTZ         pt         4.52         Metal         Coyant         oz         0.14           uvenger         pt         4.52         Metal         Metribuzin 4L         pt         9.04           uxian         oz         1.94         Metribuzin 4L         pt         9.04           uxian         oz         1.94         Metribuzin 4L         pt         9.04           uxian         oz         1.94         Metribuzin 4L         pt         9.04           uxian         oz         1.63         Metribuzin 75         lb         18.30           uxian         oz         1.61         Metribuzin 75         lb         18.30           uxian         oz         0.14         Metribuzin 75         lb         18.30           uxian         oz         0.16         Metribuzin 75         lb         18.30           uxian         oz         0.19         2.16         0.90         2.13           uxian         oz         1.46         0 <th< td=""><td>=</td><td></td><td></td><td><u> </u></td><td></td><td></td></th<>	=			<u> </u>		
nuthority MT2         lb         43.24         Loyant         oz         2.14           wastar         pt         8.50         Makaze         oz         0.14           wenger         pt         4.52         Metolachlor         pt         5.59           xixial XL         oz         1.15         Metribuzin 75         lb         18.30           xixial XL         oz         1.94         Metry         0.00         18.00           xixial XL         oz         1.94         Metribuzin 75         lb         18.30           xixial XL         oz         1.14         New Call         19           xixial XL         oz         1.94         Metribuzin 42         10		-			-	
Natar	<u> </u>			<del>-</del>		
	=			<del>-</del>		
		-				
Marian   M	-	-			-	
Sanvel   pt   6.67   MSMA   pt   3.86					-	
Arrage						
Assagran		-			-	
Noundary		-		-		
	-	-		=		
Accordance   Description   D	<u>-</u>	-				
Parallel					-	
Second   Paraguat   Oz   Oz   Oz   Oz   Oz   Oz   Oz   O		-				
Sectril   Pt					-	
Dutyrac 200 (2,4-DB)         pt         3.64         Permit Plus         oz         21.99           Cadre         oz         2.90         Permit Plus         oz         21.18           Canopy         oz         2.32         PowerFlex         oz         6.99           Japarol         pt         4.67         Preface         oz         4.05           Japarol         pt         4.67         Prefix         pt         6.64           Jinch         pt         4.67         Prefix         pt         6.64           Jinch         pt         4.67         Prefix         pt         6.49           Jinch         pt         4.68         RealmQ         oz         7.85           Jlassic         oz         1.68         RealmQ         oz         2.13           Jlassic         oz         2.26         Regiment         oz         2.13           Jlassic         <		-		-		
Name		-				
Sanapry	_	-				
Apparol						
Prefix						
Finch ATZ pt 5.20 Prowl 3.3 EC pt 6.49 clinch ATZ pt 5.20 Prowl 3.3 EC pt 6.49 clinch ATZ pt 5.20 Prowl 3.3 EC pt 6.49 clinch ATZ pt 10.73 Quelex oz 7.85 clinch ATZ pt 6.20 clin	-	-			ΟZ	
Sinch ATZ	= =				pt	
Clarity	inch	pt	14.18	Provisia	ΟZ	0.85
Classic   0z	Cinch ATZ	pt	5.20	Prowl 3.3 EC	pt	6.49
Clearpath   1b   60.12   RebelEx   0z   2.13   1	Clarity	pt	10.73	Quelex	ΟZ	7.85
Clethodim 2E	Classic	OZ	16.86	RealmQ	ΟZ	5.08
Clincher SF	Clearpath	lb	60.12	RebelEx	ΟZ	2.13
Sobra   Oz	Clethodim 2E	OZ	0.50	Reflex	pt	6.20
Sommand 3ME	Clincher SF	ΟZ	2.26	Regiment	ΟZ	43.56
Corvus	Cobra	OZ	1.70	Resicore	ΟZ	0.48
Cotton   Pt   Pt   Pt   Pt   Pt   Pt   Pt   P	Command 3ME	pt	18.17	Resource	ΟZ	1.82
State   Pro	Corvus	OZ	6.48	RiceBeaux	pt	5.95
Dicamba	Cotoran	pt	6.01	Riceshot	pt	4.69
Direx	Cotton Pro	pt	3.45	Ricestar HT	pt	24.49
Solution	)icamba	pt	5.50	Ringside	pt	4.88
Dual II Magnum	Direx	pt	3.02	Roundup Power Max	ΟZ	0.20
Dual II Magnum	Diuron	-	3.03	<del>-</del>	pt	3.25
Quet         pt         5.63         Scepter 70 DG         oz         4.82           Engenia         oz         0.89         Select Max         pt         12.74           Invive         oz         4.76         Sencor/Tricor.Metrib         lb         19.00           Invive         oz         0.80         Sequence         pt         5.45           Invive         oz         0.64         Sonic         oz         6.04           Invive         oz         0.64         Sonic         oz         5.48           Invive         oz         15.79         Stalwart         pt         3.95           Invive         oz         15.79         Stalwart         pt         3.95           Invive         oz         15.79         Stam Ma         pt         7.72           Invive	ual II Magnum	pt	13.98	Roundup PowerMax ii	οz	0.19
Select Max	oual Magnum	pt	13.33	Roundup Pro	pt	0.20
Select Max	-	=		<del>-</del>	-	
Sinvive   Oz   4.76   Sencor/Tricor.Metrib   1b   19.00   19	Ingenia		0.89			
Chrooke         oz         0.80         Sequence         pt         5.45           Cacet L         pt         14.57         Sharpen         oz         6.04           Cierce         oz         7.40         Sinister         pt         14.96           Cierce         XLT         oz         6.64         Sonic         oz         5.48           Cierce         XLT         Stalwart         pt         3.95         Stalwart         pt         3.95           Cierce         Dt         3.44         Stalwart         pt         3.95         Stalwart         pt         7.72           Clexstar         pt         4.66         Storm         Storm         pt         11.91         11.91           Ciexstar         Oz         16.32         Strada	-				-	
Cacet L         pt         14.57         Sharpen         oz         6.04           Cierce         oz         7.40         Sinister         pt         14.96           Cierce XLT         oz         6.64         Sonic         oz         5.48           Cierce XLT         oz         6.64         Sonic         oz         5.48           Cierce XLT         oz         6.64         Sonic         oz         5.48           Cierce XLT         oz         15.79         Stalwart         pt         3.95           Cierce XLT         pt         3.44         Stam M0 EDF         lb         9.45           Cierce XLT         pt         3.44         Stam 80 EDF         lb         9.45           Cierce XLT         pt         3.34         Stam M4         qt         7.72           Ciext Rate         oz         42.57         Stam M4         qt         7.72           Ciext Rate         oz         466         Storm         pt         11.91           Ciext Star         pt         4.66         Storm         pt         11.91           Ciext Star         oz         16.32         Strada Pro         oz         7.70						
Tierce				<u> </u>	-	
Sierce XLT		-		<u>=</u>		
Tinesse oz 15.79 Stalwart pt 3.95 Stirestorm pt 3.44 Stam 80 EDF lb 9.45 Stirestorm pt 3.44 Stam 80 EDF lb 9.45 Stirst Rate oz 42.57 Stam M4 qt 7.72 Stexstar pt 8.33 Staple LX oz 0.74 Stexstar GT pt 4.66 Storm pt 11.91 Strada DX oz 1.15 Strada oz 7.34 Stambit oz 16.32 Strada Pro oz 7.70 Stipphosate 3lbs a.e pt 2.11 Strada XT2 pt 3.20 Stipphosate 3lbs a.e oz 0.13 Superwham qt 8.61 Storm pt 13.52 Strada Pro oz 7.70 Stipphosate 3lbs a.e oz 0.13 Superwham qt 8.61 Storm pt 15.39 Surrend lb 13.52 Stramoxone SL 2.0 oz 0.19 Surestart II oz 0.56 Stramoxone SL 2.0 oz 0.19 Surestart II oz 0.56 Strandstand R pt 15.39 Surveil oz 6.32 Strasp oz 12.07 Synchrony XP oz 11.99 Strasp Xtra oz 1.58 Tempest pt 29.82 Stalex GT pt 7.13 Touchdown Total qt 10.21					-	
Stam 80 EDF						
Tirst Rate oz 42.57 Stam M4 qt 7.72 Stexstar pt 8.33 Staple LX oz 0.74 Stexstar GT pt 4.66 Storm pt 11.91 Strada DX oz 1.15 Strada oz 7.34 Stembit oz 16.32 Strada Pro oz 7.70 Styphosate 3lbs a.e pt 2.11 Strada XT2 pt 3.20 Styphosate 3lbs a.e oz 0.13 Superwham qt 8.61 Storm pt 7.52 Suprend lb 13.52 Stramoxone SL 2.0 oz 0.19 SureStart II oz 0.56 Strandstand R pt 15.39 Surveil oz 6.32 Strasp oz 12.07 Synchrony XP oz 11.99 Strasp Xtra oz 1.58 Tempest pt 29.82 Stalex GT pt 7.13 Touchdown Total qt 10.21					-	
Stexstar		-				
Storm					_	
Strada		-		=		
ambit         oz         16.32         Strada Pro         oz         7.70           lyphosate 3lbs a.e         pt         2.11         Strada XT2         pt         3.20           lyphosate 3lbs a.e         oz         0.13         Superwham         qt         8.61           oal 2XL         pt         7.52         Suprend         lb         13.52           ramoxone SL 2.0         oz         0.19         SureStart II         oz         0.56           randstand R         pt         15.39         Surveil         oz         6.32           rasp         oz         12.07         Synchrony XP         oz         11.99           rasp Xtra         oz         1.58         Tempest         pt         29.82           alex GT         pt         7.13         Touchdown Total         qt         10.21		-			-	
Alyphosate 3lbs a.e       pt       2.11       Strada XT2       pt       3.20         Alyphosate 3lbs a.e       oz       0.13       Superwham       qt       8.61         Aloal 2XL       pt       7.52       Suprend       lb       13.52         Aramoxone SL 2.0       oz       0.19       SureStart II       oz       0.56         Arandstand R       pt       15.39       Surveil       oz       6.32         Arasp       oz       12.07       Synchrony XP       oz       11.99         Arasp Xtra       oz       1.58       Tempest       pt       29.82         Alex GT       pt       7.13       Touchdown Total       qt       10.21						
Slyphosate 3lbs a.e       oz       0.13       Superwham       qt       8.61         Soal 2XL       pt       7.52       Suprend       lb       13.52         Gramoxone SL 2.0       oz       0.19       SureStart II       oz       0.56         Grandstand R       pt       15.39       Surveil       oz       6.32         Grasp       oz       12.07       Synchrony XP       oz       11.99         Grasp Xtra       oz       1.58       Tempest       pt       29.82         Galex GT       pt       7.13       Touchdown Total       qt       10.21						
Goal 2XL         pt         7.52         Suprend         1b         13.52           Gramoxone SL 2.0         oz         0.19         SureStart II         oz         0.56           Grandstand R         pt         15.39         Surveil         oz         6.32           Grasp         oz         12.07         Synchrony XP         oz         11.99           Grasp Xtra         oz         1.58         Tempest         pt         29.82           Halex GT         pt         7.13         Touchdown Total         qt         10.21		-			-	
Gramoxone SL 2.0         oz         0.19         SureStart II         oz         0.56           Grandstand R         pt         15.39         Surveil         oz         6.32           Grasp         oz         12.07         Synchrony XP         oz         11.99           Grasp Xtra         oz         1.58         Tempest         pt         29.82           Halex GT         pt         7.13         Touchdown Total         qt         10.21				=	_	
Grandstand R         pt         15.39         Surveil         oz         6.32           Grasp         oz         12.07         Synchrony XP         oz         11.99           Grasp Xtra         oz         1.58         Tempest         pt         29.82           Halex GT         pt         7.13         Touchdown Total         qt         10.21		-		=		
Grasp         oz         12.07         Synchrony XP         oz         11.99           Grasp Xtra         oz         1.58         Tempest         pt         29.82           Halex GT         pt         7.13         Touchdown Total         qt         10.21						
Grasp Xtra oz 1.58 Tempest pt 29.82 Halex GT pt 7.13 Touchdown Total qt 10.21		=				
Halex GT pt 7.13 Touchdown Total qt 10.21	<del>-</del>			= =		
	<del>-</del>			<del>-</del>	-	
idionax oz 19.95 Treflan nt 3.49		-			_	
(continued)	Ialullax	OZ	19.93	Trerran	-	

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2021 (continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	JNIT	PRICE
		dollars			dollars
Trifluralin	pt	3.68	Malathion 8E	pt	10.56
Triflurex	pt	3.30	Mustang Max	ΟZ	1.10
Ultra Blazer	pt	8.58	Nuprid 4F	OZ	0.88
Valor EZ	OZ	5.04	Oberon	ΟZ	3.09
Valor SX	ΟZ	4.51	Orthene 90	lb	7.45
Valor XLT	OZ	5.28	Permethrin	ΟZ	0.48
Vamos	pt	6.49	Portal XLO	ΟZ	0.74
Verdict	OZ	1.73	Pounce 25WP	lb	16.50
Veritas	pt	7.49	Prevathon	ΟZ	1.05
Villain	pt	5.24	Python WDG	ΟZ	14.32
Volunteer	pt	10.63	Radiant	ΟZ	5.74
Warrant	pt	4.39	Sevin 4F	pt	6.97
XtendiMax	OZ	0.56	Sevin XLR Plus	qt	15.43
Zidua DF	ΟZ	8.72	Sivanto Prime	OZ	2.67
Zidua SC	OZ	5.55	Tempest	OZ	1.86
OCULANT	22	0.00	Transform WG	OZ	7.35
Inoculant-Soybean	acre	1.55	Up-Cyde	OZ	0.44
Optimize LIFT	OZ	0.53	Warrior ZT	OZ OZ	2.43
SECTICIDES	02	0.00	Zeal	OZ OZ	17.67
Abamectin .15EC	ΟZ	1.89	IRRIGATION SUPPLIES	02	1,.0,
Acephate 90%	lb	6.94	Roll-Out Pipe	ft	0.24
Acephate 90SP	lb	6.42	SEED/PLANTS	10	0.24
Admire Pro	OZ	1.80	Corn Seed BtRR	thous	3.99
Agri-Mek	OZ OZ	2.72	Corn Seed Conv.	thous	2.76
Agii-mek Asana .66 XL	OZ OZ	0.55	Corn Seed Conv.		3.66
	OZ OZ	0.28	Corn Seed Op Leptia	thous	3.03
Avenger Baythroid XL	OZ OZ	2.38	Corn Seed VT2P	thous	3.98
Belt	OZ OZ	7.50	Cot. Seed Wizr Cot. Seed B3XF/W3F		2.58
Besiege	OZ OZ	2.31	Cotton Seed B3XF	thous	2.56
-					
Bidrin 8EC	ΟZ	1.16	Cotton Seed GLB2	thous	2.05
Bifenthrin	ΟZ	0.94	Cotton Seed W3FE	thous	2.49
Bifenture 2EC	ΟZ	0.91	Cotton Seed W3RF	thous	1.98
Brigade EC	pt	16.30	Peanut Seed	lb	0.87
Capture LFR	ΟZ	2.32	Rice Conv Hyb Trt	lb	6.19
Centric 40WG	ΟZ	5.08	Rice Fullpage Hyb T:		6.97
Cypermethrin	ΟZ	0.44	Rice Seed CF (Levees		0.96
Declare	ΟZ	1.89	Rice Seed Clearfield		0.96
Diamond .83EC	ΟZ	1.28	Rice Seed Conv.	lb	0.32
Dimethoate 4E	pt	5.44	Rice Seed Cv(Levees		0.32
Dimilin 2L	ΟZ	2.16	Rice Seed CvH(Levee		1.93
Endigo	OZ	1.48	Rice Seed FPH(Levee		2.67
Force 3G	lb	7.28	Rice Seed Provisia	lb	1.23
Hero	ΟZ	1.30	Rice Seed Trt/Insec		0.29
Imidacloprid 4F	ΟZ	1.31	Sorghum Concept	lb	2.64
Imidan 70 WSB	OZ	0.89	Sorghum Concept+ Po		3.82
IncidentalPestTrt \$8		8.00	Soybean Enlist E3	lb	1.20
IncidentalPestTrt\$15		15.00	Soybean Seed LL	lb	1.16
IncidentalPestTrt\$22		22.00	Soybean Seed RR2	lb	1.16
IncidentalPestTrt\$30		30.00	Soybean Seed RR2X	lb	1.34
Intrepid 2F	ΟZ	1.94	Wheat Seed Private	lb	0.28
Intruder 70WSP	ΟZ	1.13	SOIL TEST		
Karate Z	ΟZ	2.52	Soil Test	acre	10.00
Lambda	ΟZ	0.95	SURVEY & MARK LEVEES		
Lannate LV	pt	9.00	Survey & Mark Levee:	s acre	4.50
Macho	OZ	0.78	Survey & Mark Levee:	acre	4.50

Appendix Table 5. Estimated fuel prices and interest rates, Mississippi, 2021

ITEM NAME	UNIT	PRICE
		dollars
FUEL TYPES		
Diesel Fuel	gal	1.53
Gasoline	gal	1.89
INTEREST RATES		
Short-term	8	4.00
Intermediate-term	96	4.50

Appendix Table 6. Labor types, wage rates and unallocated labor Multipliers for crop enterprises, Mississippi, 2021

Item name	Unit	Wage Rate
OPERATOR LABOR	hour	14.68
IRRIGATE LABOR	hour	9.06
HAND LABOR	hour	9.06
HAND. & STOR. LABOR	hour	9.06
RICE MGT. LABOR	hour	9.06
CROP ENTERPRISE	UNALLO	OCATED LABOR MULTIPLIERS (%)
Corn		90
Cotton		80
Grain Sorghum		90
Peanuts		80
Rice		90
Soybeans		90
Wheat		80

Appendix Table 7. Futures contract prices, basis levels, forward contract prices, and loan rates used in row crop budgets, Mississippi, 2021

Crop	uni	Futures Contrac Month	Futures Contract Price <sup>a</sup>	Basis <sup>b</sup>	Forward Contract Price <sup>C</sup>	Loan Rate <sup>d</sup>	Budget Price <sup>e</sup>
Corn	bu	Dec <b>'</b> 21	3.93	-0.20	3.73	2.35	3.73
Cotton Lint	lb	Dec '21	0.66	-0.0158	0.6442	0.52	0.6442
Cottonseed	lb						0.08 <sup>f</sup>
Grain Sorghum	bu				3.55	4.08	3.55
Peanuts	ton				400.00	354.55	400.00
Soybeans	bu	Nov '21	9.69	-0.02	9.67	6.41	9.67
Rice	bu	Nov '21	5.47	-0.37	5.10	3.21	5.10
Wheat	bu	Jul '21	5.90	-0.15	5.75	3.35	5.75

- <sup>a</sup> Average of the daily closing futures contract prices during the first 5 trading days in October 2020 for the stated contract months.
- Basis is the cash price minus the futures contract price for the stated contract month. The reported basis is a daily average from 2009 to 2019 for corn, soybeans and wheat at Greenville, MS. Rice basis is a weekly average price for river point delivery. June harvest delivery for wheat. September harvest delivery for corn, rice and soybeans. October harvest delivery for cotton.
- The forward contract price for corn, cotton, rice, soybeans and wheat is the futures contract price plus the basis. The forward contract price for grain sorghum is 95% of the forward contract price for corn. The forward contract price for peanuts is an estimate from a poll of Extension Peanut Marketing Specialists.
- Average Mississippi County CCC Loan Rate for 2020 crop year for corn, grain sorghum, soybeans and wheat. Mississippi CCC 2020 Farm-stored Loan Rate for long grain rough rice. National 2020 Upland Cotton Marketing Assistance Loan Base Rate for cotton lint.
- Price used in MSU Extension Service Planning Budgets.
- f Cottonseed price is the average marketing year price over the years 2008-2020.

Appendix Table 8. Estimated costs for field operations, per acre Full-season soybeans irrigated with roll-out pipe 160-acre system, 9 ac-in., Delta Area, Mississippi, 2021

OPERATION/	SIZE/DIRECT COST								FIXED	TOTAL
OPERATING INPUT	UNIT	OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	COST	COST
						dollars-				
Land Plane	50'x16'		0.57	0.30	0.56		0.06	1.49	1.59	3.08
Set Up Engine										
IRRIGATE LABOR	hour				0.23			0.23		0.23
Ditcher (1m/160a)			0.13	0.07	0.14			0.34	0.32	0.66
Roll-Out Pipe	ft	7.92					0.11	8.03		8.03
Lay Roll-out Pipe										
Pipe Spool 160ac	1/4m rol	.1	0.17	0.10	0.41		0.01	0.69	0.79	1.48
IRRIGATE LABOR	hour				1.81		0.02	1.83		1.83
Apply Water										
IRRIGATE LABOR	hour				0.23			0.23		0.23
Apply Water										
IRRIGATE LABOR	hour				0.23			0.23		0.23
Apply Water										
IRRIGATE LABOR	hour				0.23			0.23		0.23
Pick Up Pipe										
Pipe Spool 160ac	1/4m rol	.1	0.25	0.15	0.62			1.02	1.18	2.20
Land Forming (\$450)	each								30.35	30.35
Well & Pump, Furrow	each			2.96			0.04	3.00	8.30	11.30
Main Line Pipe	each								4.59	4.59
Engine, RPF, ESB	each								8.60	8.60
1st June Irrigation			3.74	1.40			0.07	5.21		5.21
2nd June Irrigation			3.74	1.40			0.07	5.21		5.21
July Irrigation	ac-in		3.74	1.40			0.05	5.19		5.19
TOTALS		7.92	12.34	7.78	4.46	0.00	0.43	32.93	55.72	88.65

Appendix Table 9. Estimated costs for field operations, per acre Irrigation with a contour flood system 80-acre system, 13.5 ac-in., Delta Area, Mississippi, 2021

OPERATION/	SIZE/			]	DIRECT C	OST			FIXED	TOTAL
OPERATING INPUT	UNIT	OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	COST	COST
						dollars-				
Set Up Engine	1				0 45		0 01	0.46		0 40
IRRIGATE LABOR	hour				0.45		0.01	0.46		0.46
Build Outside Levee	0 1 1 - 1 -		0 00	0 11	0 04		0 01	0 50	0 62	1 01
Levee Pull (1m/80a)	8 blade		0.22	0.11	0.24		0.01 0.04	0.58	0.63	1.21
Survey & Mark Levees	acre	2.25					0.04	2.29		2.29
Build Inside Levees	0 1 1 - 1 -		0 00	0 1 5	0 21		0 01	0 76	0 02	1 50
Levee Pull (1m/80a)	8 blade		0.29	0.15	0.31		0.01	0.76	0.83	1.59
Butt Levees	61.71		0 07	0 11	0 00		0 01	0 60	0 60	1 20
Blade-Box	6'-7'		0.27	0.11	0.29		0.01	0.68	0.62	1.30
IRRIGATE LABOR	hour				0.68		0.01	0.69		0.69
Apply Water	1				0 11			0 11		0 11
IRRIGATE LABOR	hour				0.11			0.11		0.11
Tear Down Levees	2011		0.00	0 11	0 0 4		0 01	0 50	0 65	1 00
Levee Splitter (1/80	32"		0.22	0.11	0.24		0.01	0.58	0.65	1.23
Build Inside Levees	0 1 1 1		0.00	0 1 5	0 01		0 01	0 76	0 00	1 50
Levee Pull (1m/80a)	8 blade		0.29	0.15	0.31		0.01	0.76	0.83	1.59
Butt Levees	61 71		0 0 7	0 11	0 00		0 01	0 60	0 60	1 20
Blade-Box	6'-7'		0.27	0.11	0.29		0.01	0.68	0.62	1.30
IRRIGATE LABOR	hour				0.68		0.01	0.69		0.69
Apply Water										
IRRIGATE LABOR	hour				0.11			0.11		0.11
Tear Down Levees										
Levee Splitter (1/80	32"		0.22	0.11	0.24		0.01	0.58	0.65	1.23
Build Inside Levees										4 0
Levee Pull (1m/80a)	8 blade		0.29	0.15	0.31		0.01	0.76	0.83	1.59
Butt Levees										
Blade-Box	6'-7'		0.27	0.11	0.29		0.01	0.68	0.62	1.30
IRRIGATE LABOR	hour				0.68		0.01	0.69		0.69
Apply Water										
IRRIGATE LABOR	hour				0.11			0.11		0.11
Tear Down Levees										
Levee Splitter (1/80	32"		0.22	0.11	0.24		0.01	0.58	0.65	1.23
Tear Down Levees										
Levee Splitter (1/80			0.17	0.08	0.18			0.43	0.49	0.92
Land Forming (\$113)	each								7.62	7.62
Well & Pump, Flood	each			5.91			0.10	6.01	16.61	22.62
Engine, CF, 75	each								17.20	17.20
June Irrigation	ac-in		5.61	2.80			0.14	8.55		8.55
July Irrigation	ac-in		5.61	2.80			0.11	8.52		8.52
August Irrigation	ac-in		5.61	2.80			0.08	8.49		8.49
TOTALS		2.25	19.56	15.61	5.76	0.00	0.61	43.79	48.85	92.64
		2.20	13.00	10.01	0.0	0.00	0.01	10.7	10.00	22.01

Appendix Table 10. Estimated costs for field operations, per acre Irrigation with a 1/2-mile center pivot system 530-acre system, 7.5 ac-in., Delta Area, Mississippi, 2021

OPERATION/	SIZE/			]	DIRECT CO	OST			FIXED	TOTAL
OPERATING INPUT	UNIT	OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	COST	COST
						dollars-				
Set Up Engine										
IRRIGATE LABOR	hour				0.07			0.07		0.07
Maintenance IRRIGATE LABOR	hour				0.27		0.01	0.28		0.28
Apply Water	HOUL				0.27		0.01	0.20		0.20
IRRIGATE LABOR	hour				0.04			0.04		0.04
Apply Water										
IRRIGATE LABOR	hour				0.05			0.05		0.05
Apply Water	1				0 04			0 04		0 0 4
IRRIGATE LABOR	hour			0.60	0.04		0 14	0.04	22 27	0.04
Pivot, 1/2 CP	each			8.60			0.14	8.74	33.07	41.81
Well & Pump, 1/2 CP	each			1.13			0.02	1.15	3.18	4.33
Engine, 1/2 CP, 174	each .								4.64	4.64
June Irr. 3app@.75"	ac-in		7.53	0.68			0.14	8.35		8.35
July Irr. 4app@.75"	ac-in		10.04	0.91			0.15	11.10		11.10
Aug Irr. 3app@.75"	ac-in		7.53	0.68			0.08	8.29		8.29
TOTALS		0.00	25.10	12.00	0.47	0.00	0.54	38.11	40.89	79.00

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