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# **Normal Yields And Production Practices By Soil Mapping Units Delta Area of Mississippi**

By

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# NORMAL YIELDS AND PRODUCTION PRACTICES BY SOIL MAPPING UNITS DELTA AREA OF MISSISSIPPI

By THOMAS E. TRAMEL, WALTER E. KEENAN,  
and HARVEY B. VANDERFORD

Considerable effort has been expended in soil classification which is based upon physical characteristics. This classification is in itself quite valuable in planning the organization and operation of farms. Many other uses also exist. However, the value of soil classification is enhanced considerably for farm planning purposes if normal yields and normal production practices associated with each soil classification are also available. This study was made to provide this type of information for the Delta Area of Mississippi.

Data for the study were obtained by personal interview with a sample of farmers in the Delta Area. The sample was selected in the manner indicated in Appendix A.

Generally, a relatively large number of observations is required for averages from data obtained in the manner of this study to be reliable. Results are reported in this study only for soil-crop combinations where ten or more observations were obtained.

Normal yields and normal production practices are presented in Appendix B for cotton, corn, rice, soybeans, oats, and wheat on each soil mapping unit for which ten or more observations were obtained. For some purposes, a grouping of soils into the three broad classifications of sandy, mixed, and clay may be more appropriate than the individual soil mapping units. Results for this type of grouping are also presented for the above crops and for hay. Where appropriate, and where more than ten observations were obtained, results are presented for non-irrigated and for irrigated crops.

To facilitate comparison of normal yields for the different soils, these data are presented in Tables 1-4.

## Cotton

Normal yields for non-irrigated cotton averaged higher on soil mapping unit 136, nearly level phase, than on any other soil. Yields ranged from 735 pounds of lint for this soil to 404 pounds on soil mapping unit 312, level phase (Table 1). All sandy soils averaged 669 pounds for non-irrigated cotton compared to 568 pounds and 462 pounds for mixed and clay soils, respectively.

Irrigated cotton yields averaged about the same for the different soil mapping units. The highest was 775 pounds for 446, nearly level phase, compared to 707 pounds for 456, nearly level phase, the lowest. All sandy soils averaged 728 pound of lint when irrigated compared to 658 pounds for all mixed soils.

A comparison of yields for irrigated and non-irrigated sandy soils indicates a difference of only 59 pounds in favor of irrigation. The same comparison for mixed soils indicates a difference of only 90 pounds. In both instances, however, an average of less than two irrigations were applied. In addition, the sandy and mixed classifications each include a large number of soil mapping units which are not represented equally in the broader classifications. Thus, the differences in yield should not be interpreted as increases which can be obtained from a sound irrigation program.

## Corn

Normal yields for non-irrigated corn ranged from 78 bushels per acre for soil mapping unit 136, nearly level phase, to 46 bushels for 424, nearly level phase (Table 2). For the broader classifications,

<sup>1</sup>A mapping unit, which appears on soil maps, is a combination of soil type, slope or lay of the land, and the degree of erosion.

non-irrigated sandy soils averaged 74 bushels per acre compared to 61 bushels and 47 bushels for mixed and clay soils, respectively.

Irrigated corn yields averaged 83 bushels per acre for sandy soils compared to 74 bushels per acre for mixed soils. As was the case for cotton, differences in irrigated and non-irrigated yields should not be interpreted as yield increases which can be expected from a sound irrigation program.

### Rice

Normal rice yields averaged about the same for all soils on which the crop was grown. Mixed soils averaged 74 bushels per acre compared to 77 bushels on clay soils (Table 3).

### Soybeans

Soybean yields differ less, depending upon soils, than do some of the other crops. Non-irrigated normal yields ranged from a high of 28 bushels per acre for soil mapping unit 333, nearly level phase, and T825, nearly level phase, to a low of 21 bushels for 446, nearly level phase, (Table 4). For the broader soil classifications, sandy, mixed, and clay soils averaged 24, 25, and 25 bushels, respectively.

Irrigated normal yields were obtained for only two soil mapping units: 312, level phase, and 322, nearly level phase. Yields averaged 32 and 34 bushels, respectively. Irrigated sandy and mixed soils averaged 34 and 32 bushels, respectively.

Table 1. Normal cotton yields by soil mapping units, Delta Area of Mississippi, 1960.

Soil mapping unit	Number of observations	Average yield, pounds of lint per acre
134, nearly level phase, non-irrigated	36	662
136, nearly level phase, irrigated	10	772
136, nearly level phase, non-irrigated	76	735
312, level phase, non-irrigated	26	404
312, nearly level phase, non-irrigated	64	477
322, nearly level phase, non-irrigated	98	479
333, nearly level phase, non-irrigated	24	576
423, nearly level phase, non-irrigated	57	504
424, nearly level phase, non-irrigated	61	541
425, nearly level phase, non-irrigated	68	548
426, nearly level phase, non-irrigated	29	608
434, nearly level phase, non-irrigated	51	588
435, nearly level phase, irrigated	17	708
435, nearly level phase, non-irrigated	69	607
436, nearly level phase, irrigated	12	755
436, nearly level phase, non-irrigated	61	662
446, nearly level phase, irrigated	14	775
446, nearly level phase, non-irrigated	36	696
456, nearly level phase, irrigated	16	707
456, nearly level phase, non-irrigated	54	657
825, nearly level phase, non-irrigated	18	583
T825, nearly level phase, non-irrigated	31	580
Sandy soils, <sup>1</sup> irrigated	80	728
Sandy soils, <sup>2</sup> non-irrigated	316	669
Mixed soils, <sup>3</sup> irrigated	37	658
Mixed soils, <sup>1</sup> non-irrigated	377	568
Clay soils, <sup>5</sup> non-irrigated	202	462

<sup>1</sup>Includes 136, 156, 435, 436, D436, 446, 456, D456, and 825.

<sup>2</sup>Includes 136, 156, 435, 436, D436, 446, 456, D456, 825, and T825.

<sup>3</sup>Includes 134, 333, 423, 424, 425, 426 and 434.

<sup>4</sup>Includes 134, 333, 423, 424, 425, 426 and 434.

<sup>5</sup>Includes 312 and 322.

**Oats**

Normal oat yields ranged from an average of 59 bushels per acre for soil mapping unit 825, nearly level phase, to 52 bushels for 435, 436, and 446, nearly level phase. For the broader classifications, sandy, mixed, and clay soils averaged essentially the same: 54, 57, and 56 bushels, respectively.

**Wheat**

Only small differences were noted in

normal wheat yields for the different soils. Average yields ranged only from 27 to 29 bushels per acre.

**Hay**

Normal hay yields averaged slightly higher on the mixed soils than for the other two groups. Mixed soils averaged 2.5 tons per acre compared to 2.1 and 1.8 tons for sandy soils, and clay soils, respectively.

Table 2.—Normal corn yields by soil mapping units, Delta Area of Mississippi, 1960.

Soil mapping unit	Number of observations	Average yield, bushels per acre
136, nearly level phase, non-irrigated	36	78
424, nearly level phase, non-irrigated	14	46
425, nearly level phase, non-irrigated	19	65
435, nearly level phase, non-irrigated	17	71
436, nearly level phase, non-irrigated	25	71
446, nearly level phase, non-irrigated	18	72
456, nearly level phase, non-irrigated	30	72
825, nearly level phase, non-irrigated	12	72
T825, nearly level phase, non-irrigated	13	63
Sandy soils, <sup>1</sup> irrigated	15	83
Sandy soils, <sup>2</sup> non-irrigated	131	74
Mixed soils, <sup>3</sup> irrigated	10	74
Mixed soils, <sup>4</sup> non-irrigated	91	61
Clay soils, <sup>5</sup> non-irrigated	22	47

<sup>1</sup>Includes 136, 435, 436, 446, 456, D456, and T825.

<sup>2</sup>Includes 136, 435, 436, D436, 446, 456, D456, 825, T825, and 835.

<sup>3</sup>Includes 134, 424, and 425.

<sup>4</sup>Includes 134, 333, 423, 424, 425, 426, and 434.

<sup>5</sup>Includes 322.

Table 3.—Normal rice yields by soil mapping units, Delta Area of Mississippi, 1960.

Soil mapping unit	Number of observations	Average yield, bushels per acre
312, level phase	20	75
312, nearly level phase	11	79
322, nearly level phase	25	79
Mixed soils, <sup>1</sup>	20	74
Clay soils, <sup>2</sup>	64	77

<sup>1</sup>Includes 333, 423, 424, 425, 426, 434, and T825.

<sup>2</sup>Includes 212, 312, and 322.

Table 4.—Normal soybean yields by soil mapping units, Delta Area of Mississippi, 1960.

Soil mapping unit	Number of observations	Average yield, bushels per acre
134, nearly level phase, non-irrigated	37	26
136, nearly level phase, non-irrigated	50	27
312, level phase, irrigated	10	32
312, level phase, non-irrigated	29	24
312, nearly level phase, non-irrigated	82	25
322, level phase, non-irrigated	13	27
322, nearly level phase, irrigated	13	34
322, nearly level phase, non-irrigated	130	26
333, nearly level phase, non-irrigated	22	28
423, nearly level phase, non-irrigated	64	25
424, nearly level phase, non-irrigated	74	25
425, nearly level phase, non-irrigated	69	23
426, nearly level phase, non irrigated	27	24
434, nearly level phase, non-irrigated	55	26
435, nearly level phase, non-irrigated	48	23
436, nearly level phase, non-irrigated	23	23
446, nearly level phase, non-irrigated	15	21
456, nearly level phase, non-irrigated	28	22
825, nearly level phase, non-irrigated	17	26
T825, nearly level phase, non-irrigated	31	28
Sandy soils, <sup>1</sup> irrigated	15	34
Sandy soils, <sup>2</sup> non-irrigated	174	24
Mixed soils, <sup>3</sup> non-irrigated	25	32
Mixed soils, <sup>4</sup> non-irrigated	398	25
Clay soils, <sup>5</sup> irrigated	33	33
Clay soils, <sup>6</sup> non-irrigated	268	25

<sup>1</sup>Includes 136, 435, 436, D456, and T825.

<sup>2</sup>Includes 135, 136, 435, 436, D436, 446, 456, D456, 825 and T825.

<sup>3</sup>Includes 134, 333, 423, 424, 425, and 434.

<sup>4</sup>Includes 134, 333, 423, 424, 425, 426, and 434.

<sup>5</sup>Includes 312 and 322.

<sup>6</sup>Includes 212, 312, 322, and 332.

Table 5.—Normal oat yields by soil mapping units, Delta Area of Mississippi, 1960.

Soil mapping unit	Number of observations	Average yield, bushels per acre
134, nearly level phase	21	58
136, nearly level phase	45	58
312, nearly level phase	48	57
322, nearly level phase	63	57
333, nearly level phase	11	58
423, nearly level phase	33	56
424, nearly level phase	34	55
425, nearly level phase	48	53
426, nearly level phase	17	53
434, nearly level phase	27	61
435, nearly level phase	46	52
436, nearly level phase	32	52
446, nearly level phase	18	52
456, nearly level phase	35	54
825, nearly level phase	11	59
T825, nearly level phase	13	64
Sandy soils, <sup>1</sup>	189	54
Mixed soils, <sup>2</sup>	216	57
Clay soils, <sup>3</sup>	122	56

<sup>1</sup>Includes 135, 136, 435, 436, D436, 446, 456, 825, T825, and 835.

<sup>2</sup>Includes 134, 333, 423, 424, 425, 426, and 434.

<sup>3</sup>Includes 212, 312, 322, and 332.

Table 6.—Normal wheat yields by soil mapping units Delta Area of Mississippi, 1960.

Soil mapping unit	Number of observations	Average yield, bushels per acre
312, nearly level phase	20	27
322, nearly level phase	15	28
423, nearly level phase	10	29
425, nearly level phase	10	28
Sandy soils <sup>1</sup>	17	28
Mixed soils <sup>2</sup>	45	28
Clay soils <sup>3</sup>	39	27

<sup>1</sup>Includes 136, 435, 436, 446, 456, D456, 825, T825, and 835.

<sup>2</sup>Includes 134, 333, 423, 424, 425, 426, and 434.

<sup>3</sup>Includes 312 and 322.

Table 7.—Normal hay yields by soil texture, Delta Area of Mississippi, 1960.

Soil texture	Number of observations	Average yield, tons per acre
Sandy soils <sup>1</sup>	10	2.1
Mixed soils <sup>2</sup>	24	2.5
Clay soils <sup>3</sup>	21	1.8

<sup>1</sup>Includes 136, 435, and 456.

<sup>2</sup>Includes 134, 333, 423, 424, 425, 426, and 434.

<sup>3</sup>Includes 312, 322, and 332.



## APPENDIX A

The Delta Area has been completely mapped. All soils maps of the area, each covering approximately four square miles, were studied and labeled with the predominant soils mapping unit. Selection of soils mapping units for the study was then made on the basis of the number of maps labeled for each. The thirty most predominant soils mapping units were selected for study.

For each soil mapping unit selected for study, all soils maps labeled as repre-

senting predominantly soils of the particular classification were arrayed by the flight numbers appearing on the aerial photograph. From this array, study maps were selected in a systematic manner to insure "spreading" of the study maps over the entire Delta Area.

An enumerator visited each farm located on the study maps and obtained, for each soil mapping unit represented on the farm, data relative to crops grown, normal yields, and normal production practices.

## APPENDIX B

Appendix Table 1.—COTTON, non-irrigated: Normal yield per acre and production practices, soil mapping unit 134, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, pounds of lint	100.0	662.	662.
Pound of N	100.0	101.	101.
Crossplowing	36.1	-----	-----
Subsoiling <sup>2</sup>	11.1	-----	-----
Other practices (times over):			
Flat breaking, fall	11.1	.11	1.00
Discing, fall	36.1	.50	1.38
Middle breaking, fall	36.1	.36	1.00
Flat breaking, spring	2.8	.03	1.00
Discing, spring	100.0	2.19	2.19
Middle breaking, spring	97.2	1.53	1.57
Harrowing	100.0	1.44	1.44
Pre-emerge	13.9	.14	1.00
Hoeing	100.0	3.89	3.89
Flame cultivation	19.4	.47	2.43
Post-emerge	2.8	.03	1.00
Cultivation	100.0	9.53	9.53
Insecticides	100.0	11.03	11.03
Defoliation	94.4	.94	1.00

<sup>1</sup>Based on 36 observations.

<sup>2</sup>An average of every 2.0 years.

Appendix Table 2.—COTTON, irrigated: Normal yield per acre and production practices, soil mapping unit 136, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, pounds of lint	100.0	772.	772.
Pounds of N	100.0	111.	111.
Crossplowing	10.0	-----	-----
Subsoiling <sup>2</sup>	50.0	-----	-----
Land forming	30.0	-----	-----
Other practices (times over):			
Flat breaking, fall	10.0	.10	1.00
Discing, fall	20.0	.20	1.00
Middle breaking, fall	20.0	.30	1.50
Flat breaking, spring	10.0	.10	1.00
Discing, spring	90.0	1.90	2.11
Middle breaking, spring	90.0	1.40	1.56
Harrowing	90.0	1.40	1.56
Pre-emerge	100.0	1.00	1.00
Hoeing	100.0	3.70	3.70
Flame cultivation	40.0	1.00	2.50
Post-emerge	10.0	.10	1.00
Cultivation	100.0	10.20	10.20
Irrigation	100.0	1.90	1.90
Insecticides	100.0	13.00	13.00
Defoliation	100.0	1.00	1.00

<sup>1</sup>Based on 10 observations.<sup>2</sup>An average of every 2.6 years.Appendix Table 3.—COTTON, non-irrigated: Normal yield per acre and production practices, soil mapping unit 136, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, pounds of lint	100.0	735.	735.
Pounds of N	98.7	102.	103.
Pounds of P <sub>2</sub> O <sub>5</sub>	2.6	1.	30.
Pounds of K <sub>2</sub> O	2.6	1.	37.
Crossplowing	39.5	-----	-----
Subsoiling <sup>2</sup>	28.9	-----	-----
Land forming	3.9	-----	-----
Other practices (times over):			
Flat breaking, fall	17.1	.17	1.00
Discing, fall	31.6	.45	1.42
Middle breaking, fall	27.6	.29	1.05
Flat breaking, spring	2.6	.03	1.00
Discing, spring	96.1	1.91	1.99
Middle breaking, spring	97.4	1.55	1.59
Harrowing	100.0	1.49	1.49
Pre-emerge	53.9	.54	1.00
Hoeing	100.0	3.62	3.62
Flame cultivation	23.7	.49	2.06
Post-emerge	5.3	.05	1.00
Cultivation	100.0	9.84	9.84
Insecticides	100.0	12.34	12.34
Defoliation	100.0	1.00	1.00

<sup>1</sup>Based on 76 observations.<sup>2</sup>An average of every 2.6 years.

Appendix Table 4.—COTTON, non-irrigated: Normal yield per acre and production practices, soil mapping unit 312, level phase, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, pounds of lint	100.0	404.	404.
Pounds of N	100.0	89.	89.
Other practices (times over):			
Discing, fall	30.8	.35	1.13
Middle breaking, fall	88.5	.88	1.00
Discing, spring	92.3	1.31	1.42
Middle breaking, spring	100.0	1.08	1.08
Harrowing	100.0	2.00	2.00
Hoing	100.0	3.92	3.92
Flame cultivation	7.7	.19	2.50
Cultivation	100.0	7.42	7.42
Insecticides	100.0	9.12	9.12
Defoliation	46.2	.46	1.00

<sup>1</sup>Based on 26 observations.Appendix Table 5.—Cotton, non-irrigated: Normal yield per acre and production practices, soil mapping unit 312, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, pounds of lint	100.0	477.	477.
Pounds of N	100.0	92.	92.
Pounds of P <sub>2</sub> O <sub>5</sub>	1.6	3	20.
Pounds of K <sub>2</sub> O	1.6	3	20.
Crossplowing	3.1	-----	-----
Subsoiling <sup>2</sup>	1.6	-----	-----
Other practices (times over):			
Flat breaking, fall	4.7	.05	1.00
Discing, fall	34.4	.38	1.09
Middle breaking, fall	89.1	.91	1.02
Discing, spring	96.9	1.50	1.55
Middle breaking, spring	100.0	1.09	1.09
Harrowing	100.0	1.88	1.88
Pre-emerge	3.1	.03	1.00
Hoing	100.0	3.77	3.77
Flame cultivation	14.1	.34	2.44
Cultivation	100.0	8.03	8.03
Insecticides	100.0	9.23	9.23
Defoliation	51.6	.52	1.00

<sup>1</sup>Based on 64 observations.<sup>2</sup>An average of every 3.0 years.<sup>3</sup>Less than .5 pounds

Appendix Table 6.—COTTON, non-irrigated: Normal yield per acre and production practices, soil mapping unit 322, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, pounds of lint	100.0	479.	479.
Pounds of N	100.0	93.	93.
Pounds of P <sub>2</sub> O <sub>5</sub>	1.0	2	40.
Pounds of K <sub>2</sub> O	1.0	1.	75.
Crossplowing	6.1	-----	-----
Land forming	2.0	-----	-----
Other practices (times over):			
Flat breaking, fall	1.0	.01	1.00
Discing, fall	45.9	.52	1.13
Middle breaking, fall	88.8	.92	1.03
Discing, spring	96.9	1.39	1.43
Middle breaking, spring	91.8	1.01	1.10
Harrowing	100.0	1.74	1.74
Pre-emerge	3.1	.03	1.00
Hoeing	100.0	3.88	3.88
Flame cultivation	18.4	.44	2.39
Post-emerge	1.0	.01	1.00
Cultivation	100.0	8.53	8.53
Insecticides	99.0	9.85	9.95
Defoliation	56.1	.56	1.00

<sup>1</sup>Based on 98 observations.<sup>2</sup>Less than .5 pounds.Appendix Table 7.—COTTON, non-irrigated: Normal yield per acre and production practices, soil mapping unit 333, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, pounds of lint	100.0	576.	576.
Pounds of N	100.0	100.	100.
Crossplowing	12.5	-----	-----
Subsoiling <sup>2</sup>	8.3	-----	-----
Other practices (times over):			
Flat breaking, fall	4.2	.04	1.00
Discing, fall	33.3	.33	1.00
Middle breaking, fall	100.0	1.00	1.00
Discing, spring	91.7	1.33	1.45
Middle breaking, spring	91.7	1.00	1.09
Harrowing	100.0	1.63	1.63
Pre-emerge	8.3	.08	1.00
Hoeing	100.0	3.83	3.83
Flame cultivation	29.2	.63	2.14
Cultivation	100.0	9.67	9.67
Insecticides	100.0	10.50	10.50
Defoliation	83.3	.83	1.00

<sup>1</sup>Based on 24 observations.<sup>2</sup>An average of every 2.0 years.

Appendix Table 8.—COTTON, non-irrigated: Normal yield per acre and production practices, soil mapping unit 423, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, pounds of lint	100.0	504.	504.
Pounds of N	100.0	96.	96.
Pounds of P <sub>2</sub> O <sub>5</sub>	1.8	1.	40.
Crossplowing	7.0	-----	-----
Subsoiling <sup>2</sup>	5.3	-----	-----
Land forming	1.8	-----	-----
Other practices (times over):			
Flat breaking, fall	15.8	.16	1.00
Discing, fall	54.4	.63	1.16
Middle breaking, fall	89.5	.89	1.00
Discing, spring	96.5	1.32	1.36
Middle breaking, spring	94.7	1.00	1.06
Harrowing	100.0	1.79	1.79
Pre-emerge	10.5	.11	1.00
Hoeing	100.0	4.00	4.00
Flame Cultivation	8.8	.30	3.40
Post-emerge	1.8	.02	1.00
Cultivation	100.0	8.70	8.70
Insecticides	100.0	10.19	10.19
Defoliation	66.7	.67	1.00

<sup>1</sup>Based on 57 observations.<sup>2</sup>An average of every 2.3 years.Appendix Table 9.—COTTON, non-irrigated: Normal yield per acre and production practices, soil mapping unit 424, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, pounds of lint	100.0	541.	541.
Pounds of N	100.0	96.	96.
Pounds of P <sub>2</sub> O <sub>5</sub>	4.9	5.	107.
Pounds of K <sub>2</sub> O	4.9	3.	57.
Crossplowing	23.0	-----	-----
Subsoiling <sup>2</sup>	6.6	-----	-----
Land forming	1.6	-----	-----
Other practices (times over):			
Flat breaking, fall	18.0	.18	1.00
Discing, fall	34.4	.43	1.24
Middle breaking, fall	45.9	.48	1.04
Flat breaking, spring	1.6	.02	1.00
Discing, spring	98.4	1.95	1.98
Middle breaking, spring	93.4	1.33	1.42
Harrowing	100.0	1.77	1.77
Pre-emerge	11.5	.11	1.00
Hoeing	100.0	3.70	3.70
Flame cultivation	11.5	.26	2.29
Cultivation	100.0	8.44	8.44
Insecticides	100.0	10.23	10.23
Defoliation	80.3	.80	1.00

<sup>1</sup>Based on 61 observations.<sup>2</sup>An average of every 2.5 years.

Appendix Table 10.—COTTON, non-irrigated: Normal yield per acre and production practices, soil mapping unit 425, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, pounds of lint	100.0	548.	548.
Pounds of N	100.0	99.	99.
Pounds of P <sub>2</sub> O <sub>5</sub>	1.5	1.	60.
Pounds of K <sub>2</sub> O	1.5	1.	60.
Crossplowing	14.7	-----	-----
Subsoiling <sup>2</sup>	19.1	-----	-----
Other practices (times over):			
Flat breaking, fall	4.4	.04	1.00
Discing, fall	11.8	.19	1.63
Middle breaking, fall	14.7	.15	1.00
Flat breaking, spring	5.9	.06	1.00
Discing, spring	100.0	2.13	2.13
Middle breaking, spring	98.5	1.68	1.70
Harrowing	100.0	1.54	1.54
Pre-emerge	29.4	.29	1.00
Hoeing	100.0	3.66	3.66
Flame Cultivation	14.7	.31	2.10
Cultivation	100.0	9.10	9.10
Insecticides	100.0	9.97	9.97
Defoliation	79.4	.79	1.00

<sup>1</sup>Based on 68 observations.<sup>2</sup>An average of every 3.1 years.Appendix Table 11.—COTTON, non-irrigated: Normal yield per acre and production practices, soil mapping unit 426, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, pounds of lint	100.0	608.	608.
Pounds of N	100.0	97.	97.
Crossplowing	10.3	-----	-----
Subsoiling <sup>2</sup>	37.9	-----	-----
Other practices (times over):			
Discing, fall	6.9	.07	1.00
Middle breaking, fall	10.3	.10	1.00
Flat breaking, spring	3.4	.03	1.00
Discing, spring	100.0	2.17	2.17
Middle breaking, spring	100.0	1.90	1.90
Harrowing	100.0	1.24	1.24
Pre-emerge	48.3	.48	1.00
Hoeing	100.0	3.66	3.66
Flame cultivation	24.1	.52	2.14
Post-emerge	10.3	.14	1.33
Cultivation	100.0	8.86	8.86
Insecticides	96.6	9.86	10.21
Defoliation	75.9	.76	1.00

<sup>1</sup>Based on 29 observations.<sup>2</sup>An average of every 2.8 years.

Appendix Table 12.—COTTON, non-irrigated: Normal yield per acre and production practices, soil mapping unit 434, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, pounds of lint	100.0	588.	588.
Pounds of N	98.0	98.	100.
Pounds of K <sub>2</sub> O	2.0	1.	50.
Crossplowing	15.7	-----	-----
Subsoiling <sup>2</sup>	23.5	-----	-----
Land forming	9.8	-----	-----
Other practices (times over):			
Flat breaking, fall	11.8	.12	1.00
Discing, fall	27.5	.27	1.00
Middle breaking, fall	29.4	.31	1.07
Flat breaking, spring	2.0	.02	1.00
Discing, spring	100.0	1.98	1.98
Middle breaking, spring	98.0	1.39	1.42
Harrowing	100.0	1.71	1.71
Pre-emerge	19.6	.20	1.00
Hoing	100.0	3.75	3.75
Flame cultivation	17.6	.45	2.56
Post-emerge	7.8	.08	1.00
Cultivation	100.0	8.76	8.76
Insecticides	100.0	10.27	10.27
Defoliation	74.5	.75	1.00

<sup>1</sup>Based on 51 observations.<sup>2</sup>An average of every 2.2 years.Appendix Table 13.—COTTON, irrigated: Normal yield per acre and production practices, soil mapping unit 435, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, pounds of lint	100.0	708.	708.
Pounds of N	100.0	118.	118.
Crossplowing	11.8	-----	-----
Subsoiling <sup>2</sup>	88.2	-----	-----
Land forming	35.3	-----	-----
Other practices (times over):			
Flat breaking, fall	17.6	.18	1.00
Discing, fall	5.9	.18	3.00
Middle breaking, fall	11.8	.12	1.00
Flat breaking, spring	5.9	.06	1.00
Discing, spring	94.1	1.82	1.94
Middle breaking, spring	100.0	1.47	1.47
Harrowing	100.0	1.71	1.71
Pre-emerge	64.7	.65	1.00
Hoing	100.0	3.82	3.82
Flame cultivation	5.9	.12	2.00
Post-emerge	5.9	.06	1.00
Cultivation	100.0	10.06	10.06
Irrigation	100.0	1.94	1.94
Insecticides	100.0	12.41	12.41
Defoliation	100.0	1.00	1.00

<sup>1</sup>Based on 17 observations.<sup>2</sup>An average of every 2.3 years.

Appendix Table 14.—COTTON, non-irrigated: Normal yield per acre and production practices, soil mapping unit 435, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, pounds of lint	100.0	607.	607.
Pounds of N	100.0	101.	101.
Crossplowing	13.0	-----	-----
Subsoiling <sup>2</sup>	26.1	-----	-----
Land forming	1.4	-----	-----
Other practices (times over):			
Flat breaking, fall	14.5	.14	1.00
Discing, fall	7.2	.10	1.40
Middle breaking, fall	7.2	.07	1.00
Flat breaking, spring	7.2	.07	1.00
Discing, spring	98.6	2.09	2.12
Middle breaking, spring	98.6	1.59	1.62
Harrowing	100.0	1.51	1.51
Pre-emerge	37.7	.38	1.00
Hoeing	100.0	3.65	3.65
Flame cultivation	11.6	.23	2.00
Post-emerge	1.4	.01	1.00
Cultivation	100.0	8.77	8.77
Insecticides	97.1	9.75	10.04
Defoliation	87.0	.87	1.00

<sup>1</sup>Based on 69 observations.<sup>2</sup>An average of every 2.6 years.Appendix Table 15.—COTTON, irrigated: Normal yield per acre and production practices, soil mapping unit 436, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, pounds of lint	100.0	755.	755.
Pounds of N	100.0	114.	114.
Subsoiling <sup>2</sup>	66.7	-----	-----
Land forming	33.3	-----	-----
Other practices (times over):			
Flat breaking, fall	8.3	.08	1.00
Discing, fall	8.3	.08	1.00
Flat breaking, spring	8.3	.08	1.00
Discing, spring	100.0	2.08	2.08
Middle breaking, spring	100.0	1.75	1.75
Harrowing	100.0	1.67	1.67
Pre-emerge	83.3	.83	1.00
Hoeing	100.0	3.42	3.42
Flame cultivation	8.3	.17	2.00
Post-emerge	16.7	.17	1.00
Cultivation	100.0	9.67	9.67
Irrigation	100.0	1.83	1.83
Insecticides	100.0	12.92	12.92
Defoliation	100.0	1.00	1.00

<sup>1</sup>Based on 12 observations.<sup>2</sup>An average of every 3.1 years.



Appendix Table 16.—COTTON, non-irrigated: Normal yield per acre and production practices, soil mapping unit 436, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, pounds of lint	100.0	662.	662.
Pounds of N	100.0	104.	104.
Pounds of P <sub>2</sub> O <sub>5</sub>	1.6	1.	40.
Pounds of K <sub>2</sub> O	1.6	1.	40.
Crossplowing	23.0	-----	-----
Subsoiling <sup>2</sup>	52.5	-----	-----
Land forming	4.9	-----	-----
Other practices (times over):			
Flat breaking, fall	6.6	.07	1.00
Discing, fall	8.2	.08	1.00
Middle breaking, fall	4.9	.05	1.00
Flat breaking, spring	11.5	.11	1.00
Discing, spring	98.4	2.16	2.20
Middle breaking, spring	98.4	1.54	1.57
Harrowing	100.0	1.57	1.57
Pre-emerge	57.4	.57	1.00
Hoing	100.0	3.49	3.49
Flame cultivation	13.1	.31	2.38
Post-emerge	8.2	.08	1.00
Cultivation	100.0	9.13	9.13
Insecticides	96.7	10.64	11.00
Defoliation	91.8	.92	1.00

<sup>1</sup>Based on 61 observations.<sup>2</sup>An average of every 3.0 years.Appendix Table 17.—COTTON, irrigated: Normal yield per acre and production practices, soil Mapping unit 445, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, pounds of lint	100.0	775.	775.
Pounds of N	100.0	119.	119.
Crossplowing	7.1	-----	-----
Subsoiling <sup>2</sup>	78.6	-----	-----
Land forming	28.6	-----	-----
Other practices (times over):			
Flat breaking, fall	7.1	.07	1.00
Flat breaking, spring	21.4	.21	1.00
Discing, spring	100.0	2.07	2.07
Middle breaking, spring	100.0	1.50	1.50
Harrowing	100.0	1.57	1.57
Pre-emerge	85.7	.86	1.00
Hoing	100.0	3.21	3.21
Flame cultivation	7.1	.14	2.00
Post-emerge	7.1	.07	1.00
Cultivation	100.0	9.79	9.79
Irrigation	100.0	1.86	1.86
Insecticides	100.0	13.14	13.14
Defoliation	100.0	1.00	1.00

<sup>1</sup>Based on 14 observations.<sup>2</sup>An average of every 2.2 years.

Appendix Table 18.—COTTON, non-irrigated: Normal yield per acre and production practices, soil mapping unit 446, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, pounds of lint	100.0	696.	696.
Pounds of N	100.0	106.	106.
Pounds of P <sub>2</sub> O <sub>5</sub>	2.8	1.	35.
Pounds of K <sub>2</sub> O	2.8	1.	35.
Crossplowing	19.4	-----	-----
Subsoiling <sup>2</sup>	25.0	-----	-----
Other practices (times over):			
Flat breaking, fall	25.0	.25	1.00
Discing, fall	11.1	.11	1.00
Flat breaking, spring	13.9	.14	1.00
Discing, spring	100.0	2.14	2.14
Middle breaking, spring	100.0	1.72	1.72
Harrowing	100.0	1.44	1.44
Pre-merge	58.3	.58	1.00
Hoing	100.0	3.75	3.75
Flame cultivation	5.6	.11	2.00
Post-merge	2.8	.03	1.00
Cultivation	100.0	9.25	9.25
Insecticides	100.0	11.28	11.28
Defoliation	97.2	.97	1.00

<sup>1</sup>Based on 36 observations.<sup>2</sup>An average of every 3.0 years.Appendix Table 19.—COTTON, irrigated: Normal yield per acre and production practices, soil mapping unit 456, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, pounds of lint	100.0	707.	707.
Pounds of N	100.0	116.	116.
Pounds of P <sub>2</sub> O <sub>5</sub>	6.3	2.	40.
Pounds of K <sub>2</sub> O	6.3	2.	40.
Crossplowing	25.0	-----	-----
Subsoiling <sup>2</sup>	75.0	-----	-----
Land forming	25.0	-----	-----
Other practices (times over):			
Middle breaking, fall	31.3	.31	1.00
Discing, spring	100.0	1.94	1.94
Middle breaking, spring	100.0	1.50	1.50
Harrowing	100.0	1.75	1.75
Pre-merge	87.5	.88	1.00
Hoing	100.0	3.06	3.06
Flame cultivation	25.0	.44	1.75
Cultivation	100.0	9.94	9.94
Irrigation	100.0	1.88	1.88
Insecticides	100.0	12.56	12.56
Defoliation	100.0	1.00	1.00

<sup>1</sup>Based on 16 observations.<sup>2</sup>An average of every 2.5 years.

Appendix Table 20.—COTTON, non-irrigated: Normal yield per acre and production practices, soil mapping unit 456, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, pounds of lint	100.0	657.	657.
Pounds of N	100.0	103.	103.
Pounds of P <sub>2</sub> O <sub>5</sub>	9.3	5.	37.
Pounds of K <sub>2</sub> O	9.3	5.	49.
Crossplowing	29.6	-----	-----
Subsoiling <sup>2</sup>	33.3	-----	-----
Land forming	7.4	-----	-----
Other practices (times over):			
Flat breaking, fall	9.3	.09	1.00
Discing, fall	5.6	.07	1.33
Middle breaking, fall	11.1	.13	1.17
Flat breaking, spring	5.6	.06	1.00
Discing, spring	96.3	2.15	2.23
Middle breaking spring	96.3	1.54	1.60
Harrowing	100.0	1.56	1.56
Pre-emerge	48.1	.48	1.00
Hoeing	100.0	3.57	3.57
Flame cultivation	24.1	.54	2.23
Post-emerge	7.4	.07	1.00
Cultivation	100.0	9.37	9.37
Insecticides	100.0	11.52	11.52
Defoliation	94.4	.94	1.00

<sup>1</sup>Based on 54 observations.<sup>2</sup>An average of every 2.7 years.Appendix Table 21.—COTTON, non-irrigated: Normal yield per acre and production practices, soil mapping unit 825, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, pounds of lint	100.0	583.	583.
Pounds of N	100.0	101.	101.
Crossplowing	16.7	-----	-----
Subsoiling <sup>2</sup>	5.6	-----	-----
Other practices (times over):			
Flat breaking, fall	5.6	.06	1.00
Discing, fall	22.2	.22	1.00
Flat breaking, spring	16.7	.17	1.00
Discing, spring	94.4	1.94	2.06
Middle breaking, spring	100.0	1.50	1.50
Harrowing	100.0	1.78	1.78
Pre-emerge	27.8	.28	1.00
Hoeing	100.0	3.39	3.39
Flame cultivation	5.6	.11	2.00
Cultivation	100.0	8.83	8.83
Insecticides	94.4	9.00	9.53
Defoliation	88.9	.89	1.00

<sup>1</sup>Based on 18 observations.<sup>2</sup>An average of every 3.0 years.

Appendix Table 22.—COTTON, non-irrigated: Normal yield per acre and production practices, soil mapping unit T825, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, pounds of lint	100.0	580.	580.
Pounds of N	100.0	81.	81.
Pounds of P <sub>2</sub> O <sub>5</sub>	6.5	2.	32.
Pounds of K <sub>2</sub> O	6.5	3.	50.
Crossplowing	22.6	-----	-----
Subsoiling <sup>2</sup>	12.9	-----	-----
Land forming	6.5	-----	-----
Other practices (times over):			
Flat breaking, fall	3.2	.03	1.00
Discing, fall	16.1	.19	1.20
Middle breaking, fall	9.7	.10	1.00
Flat breaking, spring	12.9	.13	1.00
Discing, spring	96.8	1.65	1.70
Middle breaking, spring	96.8	1.13	1.17
Harrowing	100.0	1.84	1.84
Pre-emerge	41.9	.42	1.00
Hoing	100.0	2.77	2.77
Flame cultivation	3.2	.10	3.00
Cultivation	100.0	9.10	9.10
Insecticides	87.1	6.29	7.22
Defoliation	64.5	.65	1.00

<sup>1</sup>Based on 31 observations.

<sup>2</sup>An average of every 4.0 years.

Appendix Table 23.—COTTON, irrigated: Normal yield per acre and production practices, sandy soils, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, pounds of lint	100.0	728.	728.
Pounds of N	100.0	113.	113.
Pounds of P <sub>2</sub> O <sub>5</sub>	5.0	1.	23.
Pounds of K <sub>2</sub> O	5.0	2.	30.
Crossplowing	12.5	-----	-----
Subsoiling <sup>2</sup>	75.0	-----	-----
Land forming	32.5	-----	-----
Other practices (times over):			
Flat breaking, fall	13.8	.14	1.00
Discing, fall	6.3	.09	1.40
Middle breaking, fall	12.5	.14	1.10
Flat breaking, spring	10.0	.10	1.00
Discing, spring	97.5	1.95	2.00
Middle breaking, spring	98.8	1.45	1.47
Harrowing	98.8	1.69	1.71
Pre-emerge	81.3	.81	1.00
Hoing	100.0	3.36	3.36
Flame cultivation	23.8	.65	2.74
Post-emerge	7.5	.08	1.00
Cultivation	100.0	9.74	9.74
Irrigation	100.0	1.88	1.88
Insecticides	100.0	12.51	12.51
Defoliation	100.0	1.00	1.00

<sup>1</sup>Based on 80 observations.

<sup>2</sup>An average of every 2.4 years.

Appendix Table 24.—COTTON, non-irrigated: Normal yield per acre and production practices, sandy soils, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, pounds of lint	100.0	669.	669.
Pounds of N	99.7	103.	103.
Pounds of P <sub>2</sub> O <sub>5</sub>	2.8	1.	36.
Pounds of K <sub>2</sub> O	2.8	1.	44.
Crossplowing	24.7	-----	-----
Subsoiling <sup>2</sup>	33.5	-----	-----
Land forming	3.5	-----	-----
Other practices (times over):			
Flat breaking, fall	14.2	.14	1.00
Discing, fall	13.6	.18	1.30
Middle breaking, fall	12.0	.13	1.05
Flat breaking, spring	7.3	.07	1.00
Discing, spring	97.8	2.07	2.11
Middle breaking, spring	98.1	1.56	1.59
Harrowing	100.0	1.53	1.53
Pre-emerge	50.9	.51	1.00
Hoing	100.0	3.59	3.59
Flame cultivation	16.8	.37	2.21
Post-emerge	4.7	.05	1.00
Cultivation	100.0	9.34	9.34
Insecticides	98.7	11.16	11.31
Defoliation	94.0	.94	1.00

<sup>1</sup>Based on 316 observations.<sup>2</sup>An average of every 2.8 years.Appendix Table 25.—COTTON, irrigated: Normal yield per acre and production practices, mixed soils, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, pounds of lint	100.0	658.	658.
Pounds of N	100.0	108.	108.
Pounds of P <sub>2</sub> O <sub>5</sub>	5.4	2.	40.
Pounds of K <sub>2</sub> O	5.4	2.	35.
Crossplowing	18.9	-----	-----
Subsoiling <sup>2</sup>	43.2	-----	-----
Land forming	21.6	-----	-----
Other practices (times over):			
Flat breaking, fall	10.8	.11	1.00
Discing, fall	16.2	.24	1.50
Middle breaking, fall	35.1	.41	1.15
Flat breaking, spring	5.4	.05	1.00
Discing, spring	89.2	1.70	1.91
Middle breaking, spring	91.9	1.32	1.44
Harrowing	100.0	1.68	1.68
Pre-emerge	48.6	.49	1.00
Hoing	100.0	3.68	3.68
Flame cultivation	18.9	.35	1.86
Post-emerge	10.8	.11	1.00
Cultivation	100.0	10.46	10.46
Irrigation	100.0	1.81	1.81
Insecticides	100.0	10.97	10.97
Defoliation	97.3	.97	1.00

<sup>1</sup>Based on 37 observations.<sup>2</sup>An average of every 2.6 years.

Appendix Table 26.—COTTON, non-irrigated: Normal yield per acre and production practices, mixed soils, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, pounds of lint	100.0	568.	568.
Pounds of N	99.7	97.	97.
Pounds of P <sub>2</sub> O <sub>5</sub>	1.9	1.	69.
Pounds of K <sub>2</sub> O	1.9	1.	54.
Crossplowing	17.2	-----	-----
Subsoiling <sup>2</sup>	14.6	-----	-----
Land forming	2.4	-----	-----
Other practices (times over):			
Flat breaking, fall	9.8	.10	1.00
Discing, fall	28.4	.34	1.20
Middle breaking, fall	39.3	.40	1.01
Flat breaking, spring	4.0	.04	1.00
Discing, spring	98.1	1.86	1.90
Middle breaking, spring	96.6	1.38	1.43
Harrowing	100.0	1.65	1.65
Pre-emerge	22.0	.22	1.00
Hoeing	100.0	3.68	3.68
Flame cultivation	14.6	.35	2.38
Post emerge	2.4	.03	1.11
Cultivation	100.0	8.94	8.94
Insecticides	98.4	9.88	10.04
Defoliation	77.7	.78	1.00

<sup>1</sup>Based on 377 observations.<sup>2</sup>An average of every 2.7 years.Appendix Table 27.—COTTON, non-irrigated: Normal yield per acre and production practices, clay soils, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, pounds of lint	100.0	462.	462.
Pounds of N	100.0	92.	92.
Pounds of P <sub>2</sub> O <sub>5</sub>	1.0	<sup>3</sup>	30.
Pounds of K <sub>2</sub> O	1.0	<sup>3</sup>	48.
Crossplowing	4.5	-----	-----
Subsoiling <sup>2</sup>	1.0	-----	-----
Land forming	1.0	-----	-----
Other practices (times over):			
Flat breaking, fall	2.0	.02	1.00
Discing, fall	40.6	.45	1.11
Middle breaking, fall	88.6	.91	1.03
Discing, spring	96.5	1.44	1.49
Middle breaking, spring	96.0	1.05	1.09
Harrowing	100.0	1.82	1.82
Pre-emerge	2.5	.02	1.00
Hoeing	100.0	3.84	3.84
Flame cultivation	14.9	.35	2.37
Post-emerge	.5	<sup>3</sup>	1.00
Cultivation	100.0	8.22	8.22
Insecticides	99.5	9.53	9.58
Defoliation	53.0	.53	1.00

<sup>1</sup>Based on 202 observations.<sup>2</sup>An average of every 2.5 years.<sup>3</sup>Less than .5 pounds.

Appendix Table 28.—CORN, non-irrigated: Normal yield per acre and production practices, soil mapping unit 136, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	78.	78.
Pounds of N	94.4	123.	131.
Subsoiling <sup>2</sup>	19.4	—	—
Land forming	2.8	—	—
Other practices (times over):			
Flat breaking, fall	16.7	.17	1.00
Discing, fall	36.1	.58	1.62
Middle breaking, fall	33.3	.36	1.08
Discing, spring	97.2	1.97	2.03
Middle breaking, spring	86.1	1.03	1.19
Harrowing	100.0	1.50	1.50
Pre-emerge	16.7	.17	1.00
Hoing	44.4	.47	1.06
Post-emerge	13.9	.17	1.20
Cultivation	100.0	3.81	3.81
Insecticides	8.3	.08	1.00

<sup>1</sup>Based on 36 observations.<sup>2</sup>An average of every 2.7 years.Appendix Table 29.—CORN, non-irrigated: Normal yield per acre and production practices, soil mapping unit 424, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	46.	46.
Pounds of N	92.9	84.	90.
Land forming	7.1	—	—
Other practices (times over):			
Discing, fall	50.0	.71	1.43
Middle breaking, fall	35.7	.43	1.70
Flat breaking, spring	14.3	.14	1.00
Discing, spring	100.0	1.86	1.86
Middle breaking, spring	78.6	.86	1.09
Harrowing	92.9	1.86	2.00
Pre-emerge	7.1	.07	1.00
Hoing	42.9	.43	1.00
Cultivation	100.0	3.93	3.93

<sup>1</sup>Based on 14 observations.Appendix Table 30.—CORN, non irrigated: Normal yield per acre and production practices, soil mapping unit 425, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	65.	65.
Pounds of N	100.0	105.	105.
Subsoiling <sup>2</sup>	21.1	—	—
Other practices (times over):			
Discing, fall	5.3	.05	1.00
Middle breaking, fall	10.5	.11	1.00
Flat breaking, spring	5.3	.05	1.00
Discing, spring	100.0	2.16	2.16
Middle breaking, spring	100.0	1.26	1.26
Harrowing	100.0	1.74	1.74
Hoing	15.8	.21	1.33
Post-emerge	15.8	.16	1.00
Cultivation	100.0	3.74	3.74

<sup>1</sup>Based on 19 observations.<sup>2</sup>An average of every 3.2 years.

Appendix Table 31.—CORN, non-irrigated: Normal yield per acre and production practices, soil mapping unit 435, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	71.	71.
Pounds of N	100.0	118.	118.
Subsoiling <sup>2</sup>	17.6	-----	-----
Land forming	5.9	-----	-----
Other practices (times over):			
Flat breaking, fall	5.9	.06	1.00
Discing, fall	5.9	.12	2.00
Middle breaking, fall	11.8	.12	1.00
Flat breaking, spring	5.9	.06	1.00
Discing, spring	94.1	2.18	2.31
Middle breaking, spring	94.1	.94	1.00
Harrowing	100.0	1.53	1.53
Hoeing	35.3	.35	1.00
Post-emerge	23.5	.24	1.00
Cultivation	100.0	3.35	3.35

<sup>1</sup>Based on 17 observations.<sup>2</sup>An average of every 2.7 years.Appendix Table 32.—CORN, non-irrigated: Normal yield per acre and production practices, soil mapping unit 436, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	71.	71.
Pounds of N	100.0	129.	129.
Subsoiling <sup>2</sup>	52.0	-----	-----
Other practices (times over):			
Flat breaking, fall	4.0	.04	1.00
Discing, fall	16.0	.20	1.25
Flat breaking, spring	16.0	.16	1.00
Discing, spring	100.0	2.36	2.36
Middle breaking, spring	100.0	1.20	1.20
Harrowing	100.0	1.44	1.44
Pre-emerge	4.0	.04	1.00
Hoeing	40.0	.44	1.10
Post-emerge	16.0	.16	1.00
Cultivation	100.0	3.56	3.56
Insecticides	8.0	.08	1.00

<sup>1</sup>Based on 25 observations.<sup>2</sup>An average of every 3.2 years.



Appendix Table 33.—CORN, non-irrigated: Normal yield per acre and production practices, soil mapping unit 446, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	72.	72.
Pounds of N	100.0	122.	122.
Subsoiling <sup>2</sup>	33.3	-----	-----
Other practices (times over):			
Flat breaking, fall	16.7	.17	1.00
Discing, fall	11.1	.11	1.00
Flat breaking, spring	16.7	.17	1.00
Discing, spring	100.0	2.28	2.28
Middle breaking, spring	100.0	1.11	1.11
Harrowing	100.0	1.39	1.39
Pre-emerge	5.6	.06	1.00
Hoeing	33.3	.33	1.00
Post-emerge	22.2	.22	1.00
Cultivation	100.0	3.94	3.94

<sup>1</sup>Based on 18 observations.<sup>2</sup>An average of every 2.8 years.Appendix Table 34.—CORN, non-irrigated: Normal yield per acre and production practices, soil mapping unit 456, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	72.	72.
Pounds of N	100.0	116.	116.
Subsoiling <sup>2</sup>	20.0	-----	-----
Land forming	3.3	-----	-----
Other practices (times over):			
Flat breaking, fall	6.7	.07	1.00
Discing, fall	3.3	.07	2.00
Middle breaking, fall	20.0	.20	1.00
Flat breaking, spring	6.7	.07	1.00
Discing, spring	96.7	2.30	2.38
Middle breaking, spring	96.7	1.23	1.28
Harrowing	100.0	1.67	1.67
Hoeing	46.7	.47	1.00
Post-emerge	16.7	.17	1.00
Cultivation	100.0	3.97	3.97

<sup>1</sup>Based on 30 observations.<sup>2</sup>An average of every 2.2 years.Appendix Table 35.—CORN, non-irrigated: Normal yield per acre and production practices, soil mapping unit 825, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	72.	72.
Pounds of N	100.0	121.	121.
Other practices (times over):			
Discing, fall	25.0	.25	1.00
Flat breaking, spring	8.3	.08	1.00
Discing, spring	100.0	2.17	2.17
Middle breaking, spring	100.0	1.17	1.17
Harrowing	100.0	1.83	1.83
Cultivation	100.0	4.08	4.08
Insecticides	8.3	.08	1.00

<sup>1</sup>Based on 12 observations.

Appendix Table 36.—CORN, non-irrigated: Normal yield per acre and production practices, soil mapping unit T825, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	63.	63.
Pounds of N	100.0	106.	106.
Other practices (times over):			
Discing, fall	15.4	.23	1.50
Middle breaking, fall	7.7	.08	1.00
Flat breaking, spring	7.7	.08	1.00
Discing, spring	92.3	1.69	1.83
Middle breaking, spring	100.0	1.08	1.08
Harrowing	100.0	1.92	1.92
Hoeing	46.2	.62	1.33
Cultivation	100.0	3.46	3.46

<sup>1</sup>Based on 13 observations.Appendix Table 37.—CORN, irrigated: Normal yield per acre and production practices, sandy soils, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	83.	83.
Pounds of N	100.0	135.	135.
Subsoiling <sup>2</sup>	86.7	-----	-----
Land forming	26.7	-----	-----
Other practices (times over):			
Discing, fall	13.3	.13	1.00
Middle breaking, fall	6.7	.13	2.00
Discing, spring	93.3	1.80	1.93
Middle breaking, spring	80.0	1.20	1.50
Harrowing	93.3	1.60	1.71
Pre-emerge	20.0	.20	1.00
Hoeing	46.7	.47	1.00
Post-emerge	33.3	.33	1.00
Cultivation	100.0	3.47	3.47
Irrigation	100.0	1.33	1.33
Insecticides	20.0	.20	1.00

<sup>1</sup>Based on 15 observations.<sup>2</sup>An average of every 2.7 years.Appendix Table 38.—CORN, non-irrigated: Normal yield per acre and production practices, sandy soils, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	74.	74.
Pounds of N	98.5	121.	123.
Subsoiling <sup>2</sup>	28.2	-----	-----
Land forming	2.3	-----	-----
Other practices (times over):			
Flat breaking, fall	9.9	.10	1.00
Discing, fall	16.0	.24	1.52
Middle breaking, fall	16.8	.18	1.05
Flat breaking, spring	8.4	.08	1.00
Discing, spring	97.7	2.19	2.24
Middle breaking, spring	94.7	1.11	1.18
Harrowing	100.0	1.52	1.52
Pre-emerge	6.9	.07	1.00
Hoeing	41.2	.43	1.04
Post-emerge	16.8	.18	1.05
Cultivation	100.0	3.76	3.76
Insecticides	4.6	.05	1.00

<sup>1</sup>Based on 131 observations.<sup>2</sup>An average of every 2.8 years.

Appendix Table 39.—CORN, irrigated: Normal yield per acre and production practices, mixed soils, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	74.	74.
Pounds of N	100.0	121.	121.
Subsoiling <sup>2</sup>	20.0	-----	-----
Land forming	30.0	-----	-----
Other practices (times over):			
Flat breaking, fall	20.0	.20	1.00
Discing, fall	10.0	.20	2.00
Middle breaking, fall	10.0	.10	1.00
Flat breaking, spring	20.0	.20	1.00
Discing, spring	90.0	2.30	2.56
Middle breaking, spring	90.0	1.00	1.11
Harrowing	100.0	1.50	1.50
Pre-emerge	30.0	.30	1.00
Hoeing	20.0	.20	1.00
Post-emerge	10.0	.10	1.00
Cultivation	100.0	3.20	3.20
Insecticides	10.0	.10	1.00

<sup>1</sup>Based on 10 observations.<sup>2</sup>An average of every 2.0 years.Appendix Table 40.—CORN, non-irrigated: Normal yield per acre and production practices, mixed soils, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	61.	61.
Pounds of N	95.6	102.	106.
Subsoiling <sup>2</sup>	8.8	-----	-----
Land forming	1.1	-----	-----
Other practices (times over):			
Flat breaking, fall	4.4	.04	1.00
Discing, fall	26.4	.34	1.29
Middle breaking, fall	22.0	.23	1.05
Flat breaking, spring	6.6	.07	1.00
Discing, spring	97.8	1.93	1.98
Middle breaking, spring	92.3	1.11	1.20
Harrowing	98.9	1.74	1.76
Pre-emerge	2.2	.02	1.00
Hoeing	28.6	.34	1.19
Post-emerge	9.9	.11	1.11
Cultivation	100.0	3.68	3.68
Insecticides	4.4	.05	1.25

<sup>1</sup>Based on 91 observations.<sup>2</sup>An average of every 2.8 years.

**Appendix Table 41.—CORN, non-irrigated: Normal yield per acre and production practices, clay soils, Mississippi Delta Area, 1960<sup>1</sup>.**

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	47.	47.
Pounds of N	86.4	91.	106.
Land forming	4.5	.....	.....
Other practices (times over):			
Flat breaking, fall	4.5	.05	1.00
Discing, fall	13.6	.18	1.33
Middle breaking, fall	68.2	.68	1.00
Discing, spring	86.4	1.41	1.63
Middle breaking, spring	95.5	1.05	1.10
Harrowing	100.0	1.95	1.95
Pre-emerge	4.5	.05	1.00
Hoeing	63.6	.64	1.00
Post-emerge	9.1	.09	1.00
Cultivation	100.0	4.14	4.14

<sup>1</sup>Based on 22 observations.**Appendix Table 42.—RICE: Normal yield per acre and production practices, soil mapping unit 312, level phase, Mississippi Delta Area, 1960<sup>1</sup>.**

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	75.	75.
Pounds of N	25.0	12.	47.
Other practices (times over):			
Discing, fall	45.0	1.65	3.67
Discing, spring	70.0	2.00	2.86
Harrowing	95.0	2.05	2.16
Post-emerge	90.0	.95	1.06
Insecticides	40.0	.40	1.00

<sup>1</sup>Based on 20 observations.**Appendix Table 43.—RICE: Normal yield per acre and production practices, soil mapping unit 312, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.**

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	79.	79.
Pounds of N	36.4	21.	59.
Land forming	9.1	.....	.....
Other practices (times over):			
Flat breaking, fall	36.4	.36	1.00
Discing, fall	63.6	1.55	2.43
Discing, spring	90.9	2.45	2.70
Harrowing	90.9	1.91	2.10
Post-emerge	100.0	1.00	1.00
Insecticides	72.7	.73	1.00

<sup>1</sup>Based on 11 observations.

Appendix Table 44.—RICE: Normal yield per acre and production practices, soil mapping unit 322, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	79.	79.
Pounds of N	40.0	24.	60.
Pounds of P <sub>2</sub> O <sub>5</sub>	4.0	1.	30.
Land forming	8.0	—	—
Other practices (times over):			
Flat breaking, fall	16.0	.20	1.25
Discing, fall	52.0	1.84	3.54
Discing, spring	80.0	1.68	2.10
Harrowing	92.0	1.68	1.83
Post-emerge	88.0	.92	1.05
Insecticides	24.0	.24	1.00

<sup>1</sup>Based on 25 observations.Appendix Table 45.—RICE: Normal yield per acre and production practices, mixed soils, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	74.	74.
Pounds of N	50.0	32.	64.
Subsoiling <sup>2</sup>	15.0	—	—
Land forming	15.0	—	—
Other practices (times over):			
Flat breaking, fall	5.0	.05	1.00
Discing, fall	45.0	1.55	3.44
Flat breaking, spring	5.0	.05	1.00
Discing, spring	85.0	2.40	2.82
Harrowing	100.0	1.90	1.90
Post-emerge	85.0	.85	1.00
Insecticides	25.0	.25	1.00

<sup>1</sup>Based on 20 observations.<sup>2</sup>An average of every 3.0 years.Appendix Table 46.—RICE: Normal yield per acre and production practices, clay soils, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	77.	77.
Pounds of N	32.8	19.	58.
Pounds of P <sub>2</sub> O <sub>5</sub>	1.6	<sup>2</sup>	30.
Land forming	7.8	—	—
Other practices (times over):			
Flat breaking, fall	14.1	.16	1.11
Discing, fall	48.4	1.58	3.26
Discing, spring	81.3	2.13	2.62
Harrowing	92.2	1.84	2.00
Post-emerge	92.2	.95	1.03
Insecticides	42.2	.42	1.00

<sup>1</sup>Based on 64 observations.<sup>2</sup>Less than .5 pounds.

Appendix Table 47.—SOYBEANS, non-irrigated: Normal yield per acre and production practices, soil mapping unit 134, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	26.	26.
Subsoiling <sup>2</sup>	5.4	-----	-----
Other practices (times over):			
Flat breaking, fall	13.5	.14	1.00
Discing, fall	35.1	.41	1.15
Middle breaking, fall	35.1	.35	1.00
Discing, spring	100.0	1.89	1.89
Middle breaking, spring	94.6	.97	1.03
Harrowing	100.0	1.46	1.46
Hoeing	78.4	.81	1.03
Cultivation	100.0	5.24	5.24

<sup>1</sup>Based on 37 observations.<sup>2</sup>An average of every 3.5 years.Appendix Table 48.—SOYBEANS, non-irrigated: Normal yield per acre and production practices, soil mapping unit 136, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	27.	27.
Subsoiling <sup>2</sup>	24.0	-----	-----
Land forming	6.0	-----	-----
Other practices (times over):			
Flat breaking, fall	12.0	.12	1.00
Discing, fall	38.0	.52	1.37
Middle breaking, fall	32.0	.34	1.06
Flat breaking, spring	2.0	.02	1.00
Discing, spring	94.0	1.86	1.98
Middle breaking, spring	88.0	1.06	1.20
Harrowing	98.0	1.36	1.39
Pre-emerge	18.0	.18	1.00
Hoeing	68.0	.68	1.00
Flame cultivation	2.0	.02	1.00
Cultivation	94.0	5.24	5.57

<sup>1</sup>Based on 50 observations.<sup>2</sup>An average of every 2.8 years.Appendix Table 49.—SOYBEANS, irrigated: Normal yield per acre and production practices, soil mapping unit 312, level phase, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	32.	32.
Practices (times over):			
Discing, fall	70.0	1.20	1.71
Middle breaking, fall	80.0	.80	1.00
Discing, spring	100.0	1.20	1.20
Middle breaking, spring	90.0	.90	1.00
Harrowing	100.0	2.10	2.10
Hoeing	70.0	.70	1.00
Cultivation	100.0	4.10	4.10
Irrigation	100.0	1.60	1.60

<sup>1</sup>Based on 10 observations.

Appendix Table 50.—SOYBEANS, non-irrigated: Normal yield per acre and production practices, soil mapping unit 312, level phase, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	24.	24.
Pounds of N	3.4	3.	100.
Other practices (times over):			
Discing, fall	31.0	.34	1.11
Middle breaking, fall	93.1	.93	1.00
Discing, spring	93.1	1.17	1.26
Middle breaking, spring	96.6	1.03	1.07
Harrowing	100.0	1.90	1.90
Hoeing	55.2	.66	1.19
Cultivation	100.0	4.93	4.93

<sup>1</sup>Based on 29 observations.Appendix Table 51.—SOYBEANS, non-irrigated: Normal yield per acre and production practices, soil mapping unit 312, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	25.	25.
Pounds of N	1.2	1.	45.
Land forming	2.4	-----	-----
Other practices (times over):			
Flat breaking, fall	6.1	.06	1.00
Discing, fall	32.9	.39	1.19
Middle breaking, fall	89.0	.90	1.01
Discing, spring	97.6	1.40	1.44
Middle breaking, spring	93.9	.96	1.03
Harrowing	100.0	1.87	1.87
Pre-emerge	1.2	.01	1.00
Hoeing	63.4	.63	1.00
Post-emerge	1.2	.01	1.00
Cultivation	97.6	4.48	4.59

<sup>1</sup>Based on 82 observations.Appendix Table 52.—SOYBEANS, non-irrigated: Normal yield per acre and production practices, soil mapping unit 322, level phase, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	27.	27.
Practices (times over):			
Discing, fall	61.5	.69	1.13
Middle breaking, fall	92.3	.92	1.00
Discing, spring	100.0	1.54	1.54
Middle breaking, spring	92.3	1.00	1.08
Harrowing	100.0	1.62	1.62
Hoeing	76.9	.77	1.00
Cultivation	100.0	5.38	5.38

<sup>1</sup>Based on 13 observations.

Appendix Table 53.—SOYBEANS, irrigated: Normal yield per acre and production practices, soil mapping unit 322, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	34.	34.
Land forming	7.7	-----	-----
Other practices (times over):			
Flat breaking, fall	23.1	.31	1.33
Discing, fall	53.8	.85	1.57
Middle breaking, fall	69.2	.77	1.11
Discing, spring	84.6	1.38	1.64
Middle breaking, spring	69.2	.69	1.00
Harrowing	100.0	1.85	1.85
Hoeing	76.9	.77	1.00
Cultivation	100.0	4.54	4.54
Irrigation	100.0	1.31	1.31

<sup>1</sup>Based on 13 observations.Appendix Table 54.—SOYBEANS, non-irrigated: Normal yield per acre and production practices, soil mapping unit 322, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	26.	26.
Subsoiling <sup>2</sup>	1.5	-----	-----
Land Forming	2.3	-----	-----
Other practices (times over):			
Flat breaking, fall	3.1	.03	1.00
Discing, fall	39.2	.45	1.14
Middle breaking, fall	80.0	.80	1.00
Flat breaking, spring	.8	.01	1.00
Discing, spring	95.4	1.42	1.49
Middle breaking, spring	86.9	.89	1.03
Harrowing	99.2	1.64	1.65
Pre-emerge	.8	.01	1.00
Hoeing	74.6	.76	1.02
Cultivation	96.2	4.84	5.03

<sup>1</sup>Based on 130 observations.<sup>2</sup>An average of every 2.0 years.Appendix Table 55.—SOYBEANS, non-irrigated: Normal yield per acre and production practices, soil mapping unit 333, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	28.	28.
Subsoiling <sup>2</sup>	4.5	-----	-----
Other practices (times over):			
Flat breaking, fall	4.5	.05	1.00
Discing, fall	31.8	.32	1.00
Middle breaking, fall	86.4	.91	1.05
Flat breaking, spring	4.5	.05	1.00
Discing, spring	95.5	1.55	1.62
Middle breaking, spring	68.2	.68	1.00
Harrowing	100.0	1.50	1.50
Pre-emerge	4.5	.05	1.00
Hoeing	68.2	.73	1.07
Cultivation	100.0	5.14	5.14

<sup>1</sup>Based on 22 observations.<sup>2</sup>An average of every 3.0 years.



Appendix Table 56.—SOYBEANS, non-irrigated: Normal yield per acre and production practices, soil mapping unit 423, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	25.	25.
Subsoiling <sup>2</sup>	4.7	-----	-----
Land forming	1.6	-----	-----
Other practices (times over):			
Flat breaking, fall	6.3	.06	1.00
Discing, fall	48.4	.48	1.00
Middle breaking, fall	87.5	.88	1.00
Discing, spring	96.9	1.27	1.31
Middle breaking, spring	90.6	.92	1.02
Harrowing	100.0	1.69	1.69
Hoeing	65.6	.67	1.02
Cultivation	100.0	5.53	5.53

<sup>1</sup>Based on 64 observations.<sup>2</sup>An average of every 2.7 years.Appendix Table 57.—SOYBEANS, non-irrigated: Normal yield per acre and production practices, soil mapping unit 424, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	25.	25.
Subsoiling <sup>2</sup>	5.4	-----	-----
Land forming	1.4	-----	-----
Other practices (times over):			
Flat breaking, fall	2.7	.03	1.00
Discing, fall	29.7	.36	1.23
Middle breaking, fall	41.9	.43	1.03
Flat breaking, spring	2.7	.03	1.00
Discing, spring	98.6	1.82	1.85
Middle breaking, spring	82.4	.88	1.07
Harrowing	100.0	1.65	1.65
Hoeing	70.3	.70	1.00
Cultivation	97.3	4.74	4.88

<sup>1</sup>Based on 74 observations.<sup>2</sup>An average of every 2.5 years.Appendix Table 58.—SOYBEANS, non-irrigated: Normal yield per acre and production practices, soil mapping unit 425, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>-

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	23.	23.
Subsoiling <sup>2</sup>	15.9	-----	-----
Land forming	1.4	-----	-----
Other practices (times over):			
Flat breaking, fall	5.8	.06	1.00
Discing, fall	5.8	.09	1.50
Middle breaking, fall	8.7	.09	1.00
Flat breaking, spring	2.9	.03	1.00
Discing, spring	100.0	1.93	1.93
Middle breaking, spring	89.9	.94	1.05
Harrowing	100.0	1.59	1.59
Pre-emerge	4.3	.04	1.00
Hoeing	66.7	.67	1.00
Cultivation	98.6	4.93	5.00

<sup>1</sup>Based on 69 observations.<sup>2</sup>An average of every 3.1 years.

Appendix Table 59.—SOYBEANS, non-irrigated Normal yield per acre and production practices, soil mapping unit 426, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	24.	24.
Subsoiling <sup>2</sup>	40.7	-----	-----
Other practices (times over):			
Discing, fall	11.1	.f1	1.00
Middle breaking, fall	7.4	.07	1.00
Flat breaking, spring	3.7	.04	1.00
Discing, spring	100.0	1.96	1.96
Middle breaking, spring	96.3	1.04	1.08
Harrowing	100.0	1.33	1.33
Pre-emerge	14.8	.15	1.00
Hoeing	70.4	.70	1.00
Cultivation	100.0	5.19	5.19

<sup>1</sup>Based on 27 observations.<sup>2</sup>An average of every 2.8 years.Appendix Table 60.—SOYBEANS, non-irrigated: Normal yield per acre and production practices, soil mapping unit 434, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	26.	26.
Subsoiling <sup>2</sup>	10.9	-----	-----
Land forming	9.1	-----	-----
Other practices (times over):			
Flat breaking, fall	5.5	.05	1.00
Discing, fall	27.3	.33	1.20
Middle breaking, fall	30.9	.33	1.06
Flat breaking, spring,	1.8	.02	1.00
Discing, spring	100.0	1.80	1.80
Middle breaking, spring	90.9	1.09	1.20
Harrowing	100.0	1.49	1.49
Pre-emerge	5.5	.05	1.00
Hoeing	70.9	.73	1.03
Post-emerge	1.8	.02	1.00
Cultivation	98.2	5.07	5.17

<sup>1</sup>Based on 55 observations.<sup>2</sup>An average of every 2.7 years.Appendix Table 61.—SOYBEANS, non-irrigated: Normal yield per acre and production practices, soil mapping unit 435, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	23.	23.
Subsoiling <sup>2</sup>	16.7	-----	-----
Land forming	2.1	-----	-----
Other practices (times over):			
Flat breaking, fall	10.4	.10	1.00
Discing, fall	10.4	.13	1.20
Middle breaking, fall	6.3	.06	1.00
Flat breaking, spring	6.3	.06	1.00
Discing, spring	95.8	1.85	1.93
Middle breaking, spring	87.5	.98	1.12
Harrowing	100.0	1.65	1.65
Pre-emerge	2.1	.02	1.00
Hoeing	52.1	.52	1.00
Cultivation	100.0	4.65	4.65

<sup>1</sup>Based on 48 observations.<sup>2</sup>An average of every 2.8 years.

Appendix Table 62.—SOYBEANS, non-irrigated: Normal yield per acre and production practices, soil mapping unit 436, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	23.	23.
Subsoiling <sup>2</sup>	34.8	-----	-----
Other practices (times over):			
Discing, fall	8.7	.09	1.00
Middle breaking, fall	4.3	.04	1.00
Flat breaking, spring	13.0	.13	1.00
Discing, spring	100.0	2.04	2.04
Middle breaking, spring	82.6	.91	1.11
Harrowing	100.0	1.35	1.35
Pre-emerge	8.7	.09	1.00
Hoeing	60.9	.65	1.07
Cultivation	100.0	5.13	5.13

<sup>1</sup>Based on 23 observations.<sup>2</sup>An average of every 3.2 years.Appendix Table 63.—SOYBEANS, non-irrigated: Normal yield per acre and production practices, soil mapping unit 446, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	21.	21.
Subsoiling <sup>2</sup>	6.7	-----	-----
Other practices (times over):			
Flat breaking, fall	53.3	.53	1.00
Flat breaking, spring	20.0	.20	1.00
Discing, spring	100.0	2.00	2.00
Middle breaking, spring	100.0	1.20	1.20
Harrowing	100.0	1.47	1.47
Hoeing	66.7	.67	1.00
Cultivation	100.0	5.80	5.80

<sup>1</sup>Based on 15 observations.<sup>2</sup>An average of every 3.0 years.Appendix Table 64.—SOYBEANS, non-irrigated: Normal yield per acre and production practices, soil mapping unit 456, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	22.	22.
Subsoiling <sup>2</sup>	32.1	-----	-----
Land forming	7.1	-----	-----
Other practices (times over):			
Flat breaking, fall	3.6	.04	1.00
Discing, fall	3.6	.04	1.00
Middle breaking, fall	10.7	.11	1.00
Flat breaking, spring	10.7	.11	1.00
Discing, spring	92.9	1.89	2.04
Middle breaking, spring	78.6	1.00	1.27
Harrowing	100.0	1.50	1.50
Pre-emerge	7.1	.07	1.00
Hoeing	60.7	.71	1.18
Cultivation	100.0	4.75	4.75

<sup>1</sup>Based on 28 observations.<sup>2</sup>An average of every 2.9 years.

Appendix Table 65.—SOYBEANS, non-irrigated: Normal yield per acre and production practices, soil mapping unit 825, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	26.	26.
Subsoiling <sup>2</sup>	11.8	-----	-----
Other practices (times over):			
Flat breaking, fall	5.9	.06	1.00
Discing, fall	11.8	.12	1.00
Discing, spring	94.1	1.88	2.00
Middle breaking, spring	76.5	.76	1.00
Harrowing	100.0	1.53	1.53
Pre-emerge	5.9	.06	1.00
Hoing	64.7	.65	1.00
Cultivation	76.5	3.65	4.77

<sup>1</sup>Based on 17 observations.<sup>2</sup>An average of every 5.0 years.Appendix Table 66.—SOYBEANS, non irrigated: Normal yield per acre and production practices, soil mapping unit T825, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	28.	28.
Land forming	3.2	-----	-----
Other practices (times over):			
Flat breaking, fall	3.2	.03	1.00
Discing, fall	16.1	.23	1.40
Middle breaking, fall	9.7	.10	1.00
Flat breaking, spring	9.7	.10	1.00
Discing, spring	96.8	1.74	1.80
Middle breaking, spring	96.8	1.03	1.07
Harrowing	100.0	1.74	1.74
Pre-emerge	3.2	.03	1.00
Hoing	54.8	.65	1.18
Cultivation	100.0	5.16	5.16

<sup>1</sup>Based on 31 observations.Appendix Table 67.—SOYBEANS, irrigated: Normal yield per acre and production practices, sandy soils, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	34.	34.
Subsoiling <sup>2</sup>	73.3	-----	-----
Land forming	33.3	-----	-----
Other practices (times over):			
Discing, fall	13.3	.20	1.50
Middle breaking, fall	13.3	.20	1.50
Discing, spring	93.3	1.73	1.86
Middle breaking, spring	80.0	.87	1.08
Harrowing	100.0	1.67	1.67
Pre-emerge	13.3	.13	1.00
Hoing	73.3	.73	1.00
Cultivation	100.0	5.27	5.27
Irrigation	100.0	1.27	1.27

<sup>1</sup>Based on 15 observations.<sup>2</sup>An average of every 2.6 years.

Appendix Table 68.—SOYBEANS, non-irrigated: Normal yield per acre and production practices, sandy soils, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	24.	24.
Subsoiling <sup>2</sup>	23.0	-----	-----
Land forming	3.4	-----	-----
Other practices (times over):			
Flat breaking, fall	12.1	.12	1.00
Discing, fall	15.5	.21	1.33
Middle breaking, fall	14.4	.15	1.04
Flat breaking, spring	7.5	.07	1.00
Discing, spring	96.0	1.90	1.98
Middle breaking, spring	86.8	1.01	1.17
Harrowing	99.4	1.51	1.51
Pre-emerge	8.6	.09	1.00
Hoeing	59.8	.63	1.05
Cultivation	97.7	4.98	5.10

<sup>1</sup>Based on 174 observations.<sup>2</sup>An average of every 2.8 years.Appendix Table 69.—SOYBEANS, irrigated: Normal yield per acre and production practices, mixed soils, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	32.	32.
Subsoiling <sup>2</sup>	28.0	-----	-----
Land forming	24.0	-----	-----
Other practices (times over):			
Flat breaking, fall	16.0	.16	1.00
Discing, fall	32.0	.44	1.38
Middle breaking, fall	44.0	.44	1.00
Flat breaking, spring	4.0	.04	1.00
Discing, spring	96.0	1.76	1.83
Middle breaking, spring	84.0	.96	1.14
Harrowing	100.0	1.92	1.92
Hoeing	68.0	.84	1.24
Cultivation	100.0	4.88	4.88
Irrigation	100.0	1.40	1.40

<sup>1</sup>Based on 25 observations.<sup>2</sup>An average of every 2.4 years.Appendix Table 70.—SOYBEANS, non-irrigated: Normal yield per acre and production practices, mixed soils, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	25.	25.
Subsoiling <sup>2</sup>	10.1	-----	-----
Land forming	2.3	-----	-----
Other practices (times over):			
Flat breaking, fall	5.3	.05	1.00
Discing, fall	25.6	.29	1.14
Middle breaking, fall	37.2	.38	1.02
Flat breaking, spring	2.5	.03	1.00
Discing, spring	98.5	1.75	1.77
Middle breaking, spring	88.4	.94	1.07
Harrowing	100.0	1.58	1.58
Pre-emerge	3.3	.03	1.00
Hoeing	68.1	.70	1.03
Cultivation	98.0	5.03	5.13

<sup>1</sup>Based on 398 observations.<sup>2</sup>An average of every 3.0 years.

**Appendix Table 71.—SOYBEANS, irrigated: Normal yield per acre and production practices, clay soils, Mississippi Delta Area, 1960<sup>1</sup>.**

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	33.	33.
Subsoiling <sup>2</sup>	3.0	-----	-----
Land forming	6.1	-----	-----
Other practices (times over):			
Flat breaking, fall	12.1	.15	1.25
Discing, fall	54.5	.82	1.50
Middle breaking, fall	72.7	.76	1.04
Discing, spring	93.9	1.52	1.61
Middle breaking, spring	81.8	.82	1.00
Harrowing	100.0	1.88	1.88
Hoeing	69.7	.70	1.00
Cultivation	100.0	4.67	4.67
Irrigation	100.0	1.33	1.33

<sup>1</sup>Based on 33 observations.<sup>2</sup>An average of every 4.0 years.**Appendix Table 72.—SOYBEANS, non-irrigated: Normal yield per acre and production practices, clay soils, Mississippi Delta Area, 1960<sup>1</sup>.**

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	25.	25.
Pounds of N	.7	1.	72.
Subsoiling <sup>2</sup>	.7	-----	-----
Land forming	1.9	-----	-----
Other practices (times over):			
Flat breaking, fall	3.4	.03	1.00
Discing, fall	37.7	.44	1.16
Middle breaking, fall	84.0	.85	1.01
Flat breaking, spring	.4	<sup>3</sup>	1.00
Discing, spring	95.9	1.40	1.46
Middle breaking, spring	90.3	.93	1.03
Harrowing	99.6	1.76	1.76
Pre-emerge	.7	.01	1.00
Hoeing	69.4	.72	1.03
Cultivation	97.4	4.73	4.86

<sup>1</sup>Based on 268 observations.<sup>2</sup>An average of every 2.0 years.<sup>3</sup>Less than .05 pounds.**Appendix Table 73.—OATS: Normal yield per acre and production practices, soil mapping unit 134, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.**

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	58.	58.
Pounds of N	100.0	44.	44.
Subsoiling <sup>2</sup>	4.8	-----	-----
Other practices (times over):			
Flat breaking, fall	4.8	.05	1.00
Discing, fall	100.0	2.29	2.29
Harrowing	100.0	1.52	1.52
Post-emerge	61.9	.62	1.00
Insecticides	100.0	1.00	1.00

<sup>1</sup>Based on 21 observations.<sup>2</sup>An average of every 3.0 years.

Appendix Table 74.—OATS: Normal yield per acre and production practices, soil mapping unit 136, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	58.	58.
Pounds of N	95.6	42.	44.
Subsoiling <sup>2</sup>	11.1	-----	-----
Land forming	2.2	-----	-----
Other practices (times over):			
Flat breaking, fall	6.7	.09	1.33
Discing, fall	100.0	2.40	2.40
Harrowing	91.1	1.27	1.39
Post-emerge	55.6	.56	1.00
Insecticides	73.3	.73	1.00

<sup>1</sup>Based on 45 observations.<sup>2</sup>An average of every 2.8 years.Appendix Table 75.—OATS: Normal yield per acre and production practices, soil mapping unit 312, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	57.	57.
Pounds of N	100.0	45.	45.
Subsoiling <sup>2</sup>	4.2	-----	-----
Land forming	2.1	-----	-----
Other practices (times over):			
Flat breaking, fall	4.2	.04	1.00
Discing, fall	100.0	2.73	2.73
Harrowing	100.0	1.79	1.79
Post-emerge	58.3	.58	1.00
Insecticides	91.7	.92	1.00

<sup>1</sup>Based on 48 observations.<sup>2</sup>An average of every 3.5 years.Appendix Table 76.—OATS: Normal yield per acre and production practices, soil mapping unit 322, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	57.	57.
Pounds of N	100.0	44.	44.
Land forming	1.6	-----	-----
Other practices (times over):			
Flat breaking, fall	6.3	.06	1.00
Discing, fall	100.0	2.62	2.62
Harrowing	96.8	1.51	1.56
Post-emerge	47.6	.48	1.00
Insecticides	96.8	.98	1.02

<sup>1</sup>Based on 63 observations.Appendix Table 77.—OATS: Normal yield per acre and production practices, soil mapping unit 333, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	58.	58.
Pounds of N	100.0	48.	48.
Other practices (times over):			
Flat breaking, fall	27.3	.27	1.00
Discing, fall	100.0	2.45	2.45
Harrowing	90.9	1.45	1.60
Post-emerge	63.6	.64	1.00
Insecticides	100.0	1.00	1.00

<sup>1</sup>Based on 11 observations.

**Appendix Table 78.—OATS: Normal yield per acre and production practices, soil mapping unit 423, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.**

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	56.	56.
Pounds of N	100.0	42.	42.
Subsoiling <sup>2</sup>	3.0	-----	-----
Other practices (times over):			
Flat breaking, fall	3.0	.03	1.00
Discing, fall	100.0	2.78	2.78
Harrowing	93.9	1.33	1.42
Post-emerge	39.4	.39	1.00
Insecticides	90.9	.91	1.00

<sup>1</sup>Based on 33 observations.<sup>2</sup>An average of every 3.0 years.**Appendix Table 79.—OATS: Normal yield per acre and production practices, soil mapping unit 424, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.**

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	55.	55.
Pounds of N	100.0	43.	43.
Subsoiling <sup>2</sup>	8.8	-----	-----
Land forming	2.9	-----	-----
Other practices (times over):			
Discing, fall	100.0	2.68	2.68
Harrowing	97.1	1.47	1.52
Post-emerge	44.1	.44	1.00
Insecticides	94.1	.94	1.00

<sup>1</sup>Based on 34 observations.<sup>2</sup>An average of every 2.7 years.**Appendix Table 80.—OATS: Normal yield per acre and production practices, soil mapping unit 425, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.**

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	53.	53.
Pounds of N	100.0	42.	42.
Subsoiling <sup>2</sup>	14.6	-----	-----
Other practices (times over):			
Flat breaking, fall	2.1	.02	1.00
Discing, fall	100.0	2.31	2.31
Harrowing	93.8	1.50	1.60
Post-emerge	39.6	.40	1.00
Insecticides	93.8	.94	1.00

<sup>1</sup>Based on 48 observations.<sup>2</sup>An average of every 3.3 years.**Appendix Table 81.—OATS: Normal yield per acre and production practices, soil mapping unit 426, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.**

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	53.	53.
Pounds of N	100.0	45.	45.
Subsoiling <sup>2</sup>	41.2	-----	-----
Other practices (times over):			
Discing, fall	100.0	2.47	2.47
Harrowing	94.1	1.18	1.25
Post-emerge	64.7	.65	1.00
Insecticides	94.1	.94	1.00

<sup>1</sup>Based on 17 observations.<sup>2</sup>An average of every 3.0 years.



Appendix Table 82.—OATS: Normal yield per acre and production practices, soil mapping unit 434, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	61.	61.
Pounds of N	100.0	44.	44.
Subsoiling <sup>2</sup>	14.8	-----	-----
Land forming	7.4	-----	-----
Other practices (times over):			
Flat breaking, fall	18.5	.19	1.00
Discing, fall	100.0	2.48	2.48
Harrowing	100.0	1.56	1.56
Post-emerge	40.7	.41	1.00
Insecticides	81.5	.85	1.05

<sup>1</sup>Based on 27 observations.<sup>2</sup>An average of every 2.5 years.Appendix Table 83.—OATS: Normal yield per acre and production practices, soil mapping unit 435, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	52.	52.
Pounds of N	97.8	44.	45.
Pounds of P <sub>2</sub> O <sub>5</sub>	2.2	1.	60.
Pounds of K <sub>2</sub> O	2.2	1.	60.
Subsoiling <sup>2</sup>	32.6	-----	-----
Land forming	8.7	-----	-----
Other practices (times over):			
Discing, fall	100.0	2.26	2.26
Harrowing	100.0	1.48	1.48
Post-emerge	45.7	.46	1.00
Insecticides	93.5	.93	1.00

<sup>1</sup>Based on 46 observations.<sup>2</sup>An average of every 2.9 years.Appendix Table 84.—OATS: Normal yield per acre and production practices, soil mapping unit 436, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	52.	52.
Pounds of N	100.0	43.	43.
Subsoiling <sup>2</sup>	50.0	-----	-----
Other practices (times over):			
Flat breaking, fall	3.1	.06	2.00
Discing, fall	100.0	2.22	2.22
Harrowing	100.0	1.41	1.41
Post-emerge	71.9	.72	1.00
Insecticides	96.9	.97	1.00

<sup>1</sup>Based on 32 observations.<sup>2</sup>An average of every 3.2 years.Appendix Table 85.—OATS: Normal yield per acre and production practices, soil mapping unit 446, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	52.	52.
Pounds of N	100.0	47.	47.
Subsoiling <sup>2</sup>	27.8	-----	-----
Other practices (times over):			
Discing, fall	100.0	2.17	2.17
Harrowing	100.0	1.50	1.50
Post-emerge	61.1	.61	1.00
Insecticides	94.4	.94	1.00

<sup>1</sup>Based on 18 observations.<sup>2</sup>An average of every 3.0 years.

Appendix Table 86.—OATS: Normal yield per acre and production practices, soil mapping unit 456, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	54.	54.
Pounds of N	100.0	42.	42.
Subsoiling <sup>2</sup>	37.1	-----	-----
Land forming	2.9	-----	-----
Other practices (times over):			
Discing, fall	100.0	2.31	2.31
Harrowing	94.3	1.31	1.39
Post-emerge	68.6	.69	1.00
Insecticides	97.1	.97	1.00

<sup>1</sup>Based on 35 observations.<sup>2</sup>An average of every 2.5 years.Appendix Table 87.—OATS: Normal yield per acre and production practices, soil mapping unit 825, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	59.	59.
Pounds of N	100.0	44.	44.
Subsoiling <sup>2</sup>	9.1	-----	-----
Other practices (times over):			
Flat breaking, fall	9.1	.09	1.00
Discing, fall	100.0	2.09	2.09
Harrowing	81.8	1.45	1.78
Post-emerge	27.3	.27	1.00
Insecticides	90.9	.91	1.00

<sup>1</sup>Based on 11 observations.<sup>2</sup>An average of every 3.0 years.Appendix Table 88.—OATS: Normal yield per acre and production practices, soil mapping unit T825, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	64.	64.
Pounds of N	100.0	58.	58.
Land forming	15.4	-----	-----
Other practices (times over):			
Flat breaking, fall	15.4	.15	1.00
Discing, fall	100.0	2.08	2.08
Harrowing	100.0	1.50	1.50
Insecticides	100.0	1.08	1.08

<sup>1</sup>Based on 13 observations.Appendix Table 89.—OATS: Normal yield per acre and production practices, sandy soils, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	54.	54.
Pounds of N	98.4	43.	44.
Pounds of P <sub>2</sub> O <sub>5</sub>	.5	“	60.
Pounds of K <sub>2</sub> O	.5	“	60.
Subsoiling <sup>2</sup>	31.2	-----	-----
Land forming	3.7	-----	-----
Other practices (times over):			
Flat breaking, fall	2.6	.04	1.40
Discing, fall	100.0	2.28	2.28
Harrowing	96.8	1.40	1.44
Post-emerge	58.7	.59	1.00
Insecticides	89.9	.90	1.00

<sup>1</sup>Based on 189 observations.<sup>2</sup>An average of every 2.8 years.<sup>3</sup>Less than .5 pounds.

Appendix Table 90.—OATS: Normal yield per acre and production practices, mixed soils, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	57.	57.
Pounds of N	100.0	44.	44.
Subsoiling <sup>2</sup>	11.1	---	---
Land forming	2.3	---	---
Other practices (times over):			
Flat breaking, fall	6.5	.06	1.00
Discing, fall	99.1	2.44	2.46
Harrowing	94.9	1.44	1.52
Post-emerge	43.1	.43	1.00
Insecticides	92.6	.94	1.01

<sup>1</sup>Based on 216 observations.<sup>2</sup>An average of every 3.0 years.Appendix Table 91.—OATS: Normal yield per acre and production practices, clay soils, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	56.	56.
Pounds of N	100.0	45.	45.
Subsoiling <sup>2</sup>	1.6	---	---
Land forming	1.6	---	---
Other practices (times over):			
Flat breaking, fall	6.6	.07	1.00
Discing, fall	100.0	2.66	2.66
Harrowing	98.4	1.65	1.68
Post-emerge	47.5	.48	1.00
Insecticides	95.1	.96	1.01

<sup>1</sup>Based on 122 observations.<sup>2</sup>An average of every 3.5 years.Appendix Table 92.—WHEAT: Normal yield per acre and production practices, soil mapping unit 312, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	27.	27.
Pounds of N	100.0	44.	44.
Land forming	10.0	---	---
Other practices (times over):			
Flat breaking, fall	15.0	.15	1.00
Discing, fall	100.0	2.50	2.50
Harrowing	95.0	1.80	1.89
Post-emerge	65.0	.65	1.00
Insecticides	85.0	.85	1.00

<sup>1</sup>Based on 20 observations.Appendix Table 93.—WHEAT: Normal yield per acre and production practices, soil mapping unit 322, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	28.	28.
Pounds of N	100.0	47.	47.
Land forming	6.7	---	---
Other practices (times over):			
Flat breaking, fall	20.0	.20	1.00
Discing, fall	100.0	2.40	2.40
Harrowing	100.0	1.57	1.57
Post-emerge	40.6	.40	1.00
Insecticides	66.7	.73	1.10

<sup>1</sup>Based on 15 observations.

Appendix Table 94.—WHEAT: Normal yield per acre and production practices, soil mapping unit 423, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	29.	29.
Pounds of N	100.0	43.	43.
Subsoiling <sup>2</sup>	20.0	-----	-----
Land forming	20.0	-----	-----
Other practices (times over):			
Discing, fall	100.0	2.70	2.70
Harrowing	100.0	1.30	1.30
Post-emerge	40.0	.40	1.00
Insecticides	70.0	.70	1.00

<sup>1</sup>Based on 10 observations.<sup>2</sup>An average of every 2.5 years.Appendix Table 95.—WHEAT: Normal yield per acre and production practices, soil mapping unit 425, nearly level phase, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	28.	28.
Pounds of N	100.0	40.	40.
Subsoiling <sup>2</sup>	20.0	-----	-----
Other practices (times over):			
Discing, fall	100.0	2.20	2.20
Harrowing	90.0	1.50	1.67
Post-emerge	30.0	.30	1.00
Insecticides	80.0	.80	1.00

<sup>1</sup>Based on 10 observations.<sup>2</sup>An average of every 3.0 years.Appendix Table 96.—WHEAT: Normal yield per acre and production practices, sandy soils, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	28.	28.
Pounds of N	100.0	49.	49.
Subsoiling <sup>2</sup>	23.5	-----	-----
Other practices (times over):			
Flat breaking, fall	11.8	.12	1.00
Discing, fall	100.0	2.41	2.41
Harrowing	100.0	1.47	1.47
Post-emerge	64.7	.65	1.00
Insecticides	82.4	.82	1.00

<sup>1</sup>Based on 17 observations.<sup>2</sup>An average of every 2.8 years.Appendix Table 97.—WHEAT: Normal yield per acre and production practices, mixed soils, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	28.	28.
Pounds of N	100.0	42.	42.
Subsoiling <sup>2</sup>	11.1	-----	-----
Land forming	6.7	-----	-----
Other practices (times over):			
Flat breaking, fall	13.3	.16	1.17
Discing, fall	97.8	2.79	2.34
Harrowing	97.8	1.47	1.50
Post-emerge	40.0	.40	1.00
Insecticides	80.0	.82	1.03

<sup>1</sup>Based on 45 observations.<sup>2</sup>An average of every 2.8 years.

Appendix Table 98.—Wheat: Normal yield per acre and production practices, clay soils, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, bushels	100.0	27.	27.
Pounds of N	100.0	47.	47.
Land forming	7.7	-----	-----
Other practices (times over):			
Flat breaking, fall	17.9	.18	1.00
Discing, fall	100.0	2.46	2.46
Harrowing	94.9	1.64	1.73
Post-emerge	51.3	.51	1.00
Insecticides	76.9	.79	1.03

<sup>1</sup>Based on 39 observations.Appendix Table 99.—HAY: Normal yield per acre and production practices, sandy soils, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, tons	100.0	2.12	2.12
Subsoiling <sup>2</sup>	10.0	-----	-----
Other practices (times over):			
Flat breaking, fall	20.0	.20	1.00
Discing, fall	40.0	1.10	2.75
Harrowing	40.0	.70	1.75
Insecticides	10.0	.10	1.00

<sup>1</sup>Based on 10 observations.<sup>2</sup>An average of every 2.0 years.Appendix Table 100.—HAY: Normal yield per acre and production practices, mixed soils, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, tons	100.0	2.53	2.53
Pounds of P <sub>2</sub> O <sub>5</sub>	8.3	4.	50.
Pound of K <sub>2</sub> O	8.3	4.	50.
Subsoiling <sup>2</sup>	16.7	-----	-----
Other practices (times over):			
Flat breaking, fall	29.2	.42	1.43
Discing, fall	45.8	1.17	2.55
Discing, spring	12.5	.25	2.00
Harrowing	54.2	1.00	1.85
Insecticides	20.8	.29	1.40

<sup>1</sup>Based on 24 observations.<sup>2</sup>An average of every 2.2 years.Appendix Table 101.—HAY: Normal yield per acre and production practices, clay soils, Mississippi Delta Area, 1960<sup>1</sup>.

Item	Percentage reporting	Average for all farmers	Average for farmers reporting
Yield, tons	100.0	1.77	1.77
Pounds of N	4.8	2.	50.
Land forming	4.8	-----	-----
Other practices (times over):			
Flat breaking, fall	14.3	.14	1.00
Discing, fall	19.0	.38	2.00
Discing, spring	14.3	.33	2.33
Harrowing	33.3	.67	2.00
Irrigation	4.8	.05	1.00
Insecticides	4.8	.05	1.00

<sup>1</sup>Based on 21 observations.