

APPENDIX

Table 1. List of tractors by size, make and model  
on 61 mechanized farms, Northern Coastal Plains  
1943

Make	Model	Number of tractors
Small:		
McCormick Deering	F-12	7
McCormick Deering	F-14	7
John Deere	H	5
Allis-Chalmers	B	1
General	-	2
Total		22
Medium:		
McCormick Deering	F-20	14
McCormick Deering	H	11
John Deere	B	19
John Deere	A	15
Ford-Ferguson	-	6
Allis-Chalmers	WC	3
Oliver Row Crop	60 HC	3
Oliver Row Crop	70 HC	4
MM Twin City	ZTU	2
MM Twin City	RTU	5
Case	SC	5
Total		87
Large:		
McCormick Deering	F-30	2
McCormick Deering	M	8
McCormick Deering	MD	1
John Deere	D	1
Oliver Row Crop	80 KD	2
MM Twin City	U	2
Total		16
Total all tractors		125

Table 2. The average cost of operating small tractors per 10-hour day of use in the Northern Coastal Plains, 1943 <sup>1/</sup>

Item	Unit	Price per unit Dollars	Heavy load <sup>2/</sup>		Light load <sup>3/</sup>		Average	
			Quan.	Value Dollars	Quan.	Value Dollars	Quan.	Value Dollars
Cost of operation:								
Gasoline	gal.	.16	14.29	2.29	10.37	1.66	12.33	1.97
Oil	qt.	.17	1.36	.23	.96	.16	1.16	.20
Grease	lb.	.13	.28	.04	.24	.04	.26	.04
Oil filter	no.	.70	.12	.08	.12	.08	.12	.08
Service labor	hr.	.30	.53	.16	.53	.16	.53	.16
Repairs <sup>4/</sup>		-	-	.80		.80		.80
Depreciation <sup>5/</sup>				1.17		1.17		1.17
Interest <sup>6/</sup>				.27		.27		.27
Total cost per day <sup>7/</sup>				5.04		4.34		4.69

- <sup>1/</sup> Average for 22 tractors. Average estimated 10-hour days of use per tractor per year, 77.
- <sup>2/</sup> Heavy load includes breaking and discing.
- <sup>3/</sup> Light load includes cultivating, planting, combining small grain and soybeans, mowing, harrowing and belt work.
- <sup>4/</sup> Average of farmers' estimates was \$61.94 a year which includes overhauling, parts, tire repairs, and labor.
- <sup>5/</sup> Average purchase price was \$841 per tractor and the average estimated life was 9.4 years.
- <sup>6/</sup> Interest charge 5 per cent on one-half of the average purchase price.
- <sup>7/</sup> Does not include a charge for taxes, shelter, or other items not enumerated.

Table 3. The average cost of operating medium size tractors per 10-hour day of use in the Northern Coastal Plains, 1943 <sup>1/</sup>

Item	Unit	Price per Unit Dollars	Heavy load <sup>2/</sup>		Light load <sup>3/</sup>		Average	
			Quan.	Value Dollars	Quan.	Value Dollars	Quan.	Value Dollars
Cost of operation:								
Gasoline	gal.	.16	20.50	3.28	13.50	2.16	17.00	2.72
Oil	qt.	.17	1.50	.26	1.15	.20	1.33	.23
Grease	lb.	.12	.41	.05	.35	.05	.38	.05
Oil filter	no.	.70	.15	.10	.15	.10	.15	.10
Service labor	hr.	.30	.57	.17	.57	.17	.57	.17
Repairs <sup>4/</sup>				.74		.74		.74
Depreciation <sup>5/</sup>				1.07		1.07		1.07
Interest <sup>6/</sup>				.28		.28		.28
Total cost per day <sup>7/</sup>				5.95		4.77		5.36

- <sup>1/</sup> Average for 87 tractors. Average estimated 10-hour days of use per tractor per year, 92.
- <sup>2/</sup> Heavy load includes breaking and discing.
- <sup>3/</sup> Light load includes cultivating, planting, combining small grain and soybeans, mowing, harrowing, and belt work.
- <sup>4/</sup> Average of farmers' estimates was \$68.54 a year which includes overhauling, parts, tire repairs, and labor.
- <sup>5/</sup> Average purchase price was \$1,015 per tractor and average estimated life, 10.3 yrs.
- <sup>6/</sup> Interest charge 5 per cent on one-half of the average purchase price.
- <sup>7/</sup> Does not include a charge for taxes, shelter, or other items not enumerated.

Table 4. The average cost of operating large tractors per 10-hour day of use in the Northern Coastal Plains, 1943 1/

Item	Unit	Price per unit Dollars	Heavy load <u>2/</u>		Light load <u>3/</u>		Average	
			Quan.	Value Dollars	Quan.	Value Dollars	Quan.	Value Dollars
Cost of operation:								
Gasoline	gal.	.16	28.70	4.59	16.70	2.67	22.70	3.63
Oil	qt.	.17	1.80	.31	1.50	.26	1.65	.28
Grease	lb.	.13	.50	.06	.40	.05	.45	.06
Oil filter	no.	.70	.10	.07	.10	.07	.10	.07
Service labor	hr.	.30	.75	.22	.75	.22	.75	.22
Repairs <u>4/</u>				.77		.77		.77
Depreciation <u>5/</u>				1.36		1.36		1.36
Interest <u>6/</u>				.34		.34		.34
Total cost per day <u>7/</u>				7.72		5.74		6.73

- 1/ Average for 16 tractors. Average estimated 10-hour days of use per tractor per year, 99.
- 2/ Heavy load includes breaking and discing.
- 3/ Light load includes cultivating, planting, combining small grain and soybeans, mowing, harrowing and belt work.
- 4/ Average of farmers' estimates was \$76.50 a year which includes overhauling, parts, tire repairs and labor.
- 5/ Average purchase price was \$1,355 per tractor and the average estimated life was 10.1 years.
- 6/ Interest charge 5 per cent on one-half of the average purchase price.
- 7/ Does not include a charge for taxes, shelter, or other items not enumerated.

Table 5. The average cost of operating all tractors per 10-hour day of use in the Northern Coastal Plains, 1943 1/

Item	Unit	Price per unit Dollars	Heavy load <u>2/</u>		Light load <u>3/</u>		Average load	
			Quan.	Value Dollars	Quan.	Value Dollars	Quan.	Value Dollars
Cost of operation:								
Gasoline	gal.	.16	20.44	3.27	13.36	2.14	16.90	2.70
Oil	qt.	.17	1.51	.26	1.16	.20	1.34	.23
Grease	lb.	.13	.40	.05	.34	.04	.37	.05
Oil filter	no.	.70	.14	.10	.14	.10	.14	.10
Service labor	hr.	.30	.59	.18	.59	.18	.59	.18
Repairs <u>4/</u>				.76		.76		.76
Depreciation <u>5/</u>				1.12		1.12		1.12
Interest <u>6/</u>				.29		.29		.29
Total cost per day <u>7/</u>				6.03		4.83		5.43

- 1/ Average for 125 tractors. Average estimated 10-hour days of use per tractor per year, 90.
- 2/ Heavy load includes breaking and discing.
- 3/ Light load includes cultivating, planting, combining small grain and soybeans, mowing, harrowing and belt work.
- 4/ Average of farmers' estimates was \$68.40 a year which includes overhauling, parts, tire repairs and labor.
- 5/ Average purchase price was \$1,028 per tractor and the average estimated life was 10 years.
- 6/ Interest charge 5 per cent on one-half of the average purchase price.
- 7/ Does not include a charge for taxes, shelter or other items not enumerated.

Table 6. Average machinery inventory and related data for farms reporting one tractor, Northern-Coastal Plains, 1943 1/

Item	Number per farm	Size range	Cost new	Investment per farm	Age	Years of use left	Estimated life	Annual depreciation	Annual repairs
			Dollars	Dollars	Yrs.	Years	Years	Dollars	Dollars
Tractor	1.0	-	1,026	1,026	3.7	5.9	9.6	107	53
Disc	1.1	5'-7'	150	165	4.2	5.4	9.6	17	14
Disc tiller	.7	4d-7d	175	122	3.4	5.8	9.2	13	9
Harrow	.7	6'-16'	32	22	5.2	5.3	10.5	2	2
Planter <u>2/</u>	.7	2 R	189	132	3.2	8.0	11.2	12	13
Cultivator <u>2/</u>	1.0	2 R	181	181	3.5	8.4	11.9	15	16
Drill	.1	8'	155	16	3.0	9.0	12.0	1	5
Mower	.2	7'	157	31	1.8	8.5	10.3	3	13
Rake	.0	-	-	-	-	-	-	-	-
Hay baler	.3	-	450	135	5.6	7.0	12.6	11	24
Peanut picker	.6	-	590	354	5.7	7.1	12.8	28	33
Combine	.4	6'	804	322	2.9	4.6	7.5	43	41
Other equipment <u>3/</u>				22				5	1
Total				2,528				257	224
Total, excluding tractors, peanut pickers and combines				826				79	97

1/ Average for 17 farms. Acres in crops, (excluding cover crops) 251; acres in row crops, 232; acres in small grain and lespedeza, 19; number of workstock, 8.3; number of working families, 5.3.

2/ Includes attachments.

3/ Includes miscellaneous or special equipment such as rotary hoe, stalk cutter, bush and bog harrow, cultipacker, peanut digger, lime sower, etc.

Table 7. Average machinery inventory and related data for farms reporting two tractors, Northern Coastal Plains, 1943 1/

Item	Number per farm	Size range	Cost new	Investment per farm	Age	Years of use left	Estimated life	Annual depreciation	Annual repairs
			Dollars	Dollars	Yrs.	Years	Years	Dollars	Dollars
Tractor	2.0	-	993	1,986	4.6	6.0	10.6	187	146
Disc	1.1	5'-8'	233	256	5.6	6.8	12.4	21	19
Disc tiller	1.0	4d-8d	224	224	3.1	7.7	10.8	21	12
Harrow	1.0	8'-16'	34	34	4.3	6.2	10.5	3	4
Planter <u>2/</u>	1.0	2 R	189	189	4.1	5.8	9.9	19	7
Cultivator <u>2/</u>	1.3	2 R	181	235	3.7	6.1	9.8	24	18
Drill	.5	8'-12'	195	98	3.4	8.5	11.9	8	7
Mower	.6	5'-7'	153	92	3.3	7.5	10.8	3	10
Rake	.1	10'-16'	150	15	2.0	9.3	11.3	6	1
Hay baler	.7	-	439	307	3.8	7.8	11.6	26	13
Peanut picker	.9	-	617	555	5.3	8.5	13.8	40	42
Combine	.9	6'	795	716	3.1	4.4	7.5	95	52
Other equipment <u>3/</u>				60				7	1
Total				4,767				460	332
Total, excluding tractors peanut pickers and combines				1,510				138	92

1/ Average for 29 farms. Acres in crops, (excluding cover crops) 409; acres in row crops, 337; acres in small grain and lespedeza, 72; number of workstock, 11.0; number of working families, 8.0.

2/ Includes attachments.

3/ Includes miscellaneous or special equipment such as rotary hoe, stalk cutter, bush and bog harrow, cultipacker, peanut digger, lime sower, etc.

Table 8. Average machinery inventory and related data for farms reporting three tractors in the Northern Coastal Plains, 1943 1/

Item	Number per farm	Size range	Cost	Investment	Age	Years of use left	Estimated life	Annual depreciation	Annual repairs
			Dollars new	Dollars per farm	Yrs.	Years	Years	Dollars	Dollars
Tractor	3.0	-	1,117	3,351	3.9	6.2	10.1	332	189
Disc	2.0	6'-8'	204	408	4.7	3.9	8.6	47	52
Disc tiller	1.8	5d-8d	246	443	4.9	5.6	10.5	42	34
Harrow	1.3	8'-16'	42	55	5.9	4.8	10.7	5	4
Planter <u>2/</u>	1.2	2 R	189	227	3.4	6.9	10.3	22	5
Cultivator <u>2/</u>	1.9	2 R	181	344	3.5	7.8	11.3	30	30
Drill	1.0	8'-14'	178	178	4.1	7.5	11.6	15	11
Mower	.8	6'-8'	130	104	4.2	6.1	10.3	10	12
Rake	.5	8'	167	84	1.8	9.2	11.0	8	3
Hay baler	.9	-	439	395	6.6	8.2	14.8	27	12
Peanut picker	1.1	-	599	659	8.1	5.5	13.6	48	48
Combine	1.5	6'	804	1,206	4.3	4.4	8.7	139	68
Other equipment <u>3/</u>				172				22	8
Total				7,626				747	476
Total, excluding tractors, peanut pickers and combines				2,410				228	171

1/ Average for 12 farms. Acres in crops (excluding cover crops) 564; acres in row crops, 393; acres in small grain and lespedeza, 171; number of workstock, 15.3; number of working families, 10.9.

2/ Includes attachments.

3/ Includes miscellaneous tractor equipment such as rotary hoe, stalk cutter, bush and bog harrow, cultipacker, peanut digger, lime sower, etc.

Table 9. Average machinery inventory and related data for all farms reporting, Northern Coastal Plains, 1943. 1/

Item	Number per farm	Size range	Cost new	Investment per farm	Age	Years of use left	Estimated life	Annual depreciation	Annual repairs
			Dollars	Dollars	Yrs.	Years	Years	Dollars	Dollars
Tractor	2.0	S-L	1,028	2,056	4.1	5.9	10.0	206	137
Disc	1.3	5'-8'	206	268	4.8	5.1	9.9	27	24
Disc tiller	1.1	4d-8d	225	248	3.8	6.4	10.2	24	15
Harrow	1.0	6'-16'	38	38	4.8	5.5	10.3	4	3
Planter <u>2/</u>	1.0	2 R.	190	190	3.5	6.4	9.9	19	8
Cultivator <u>2/</u>	1.4	2 R.	175	245	3.4	7.2	10.6	23	20
Drill	.5	8'-16'	184	92	3.9	7.9	11.8	8	9
Mower	.5	6'-8'	141	70	3.3	6.7	10.0	7	14
Rake	.2	8'-16'	159	32	2.4	7.4	9.8	3	5
Baler	.6		440	264	4.7	7.6	12.3	21	13
Peanut picker	.9		606	545	6.5	7.1	13.6	40	50
Combine	1.0	6'	799	799	3.5	4.1	7.6	105	53
Other equipment <u>3/</u>				68				9	2
Total				4,915				496	353
Total, excluding tractors, peanut pickers, and combines				1,515				145	113

1/ Average for 61 farms. Acres in crops (excluding cover crops) 458; acres in row crops, 364; acres in small grain and lespedeza, 94; number of workstock, 12.9; number of working families, 9.5.

2/ Includes attachments.

3/ Includes miscellaneous or special equipment such as rotary hoe, stalk cutter, bush and bog harrow, cultipacker, peanut digger, lime sower, etc.

Table 10. Average annual cost of keeping workstock  
in the Northern Coastal Plains, 1943. 1/

Item	Unit	Price per unit <u>2/</u>	Quantity <u>3/</u>	Value
		Dollars	Number	Dollars
Corn	bu.	1.39	60	83.40
Hay (peanut)	ton	20.00	3	60.00
Salt	lb.	.013	32	.42
Shoeing				1.43
Veterinary fees				1.79
Medicine				.69
Chore labor	hr.	.15	112	16.80
Harness cost				7.22
Depreciation <u>4/</u>				19.96
Interest <u>5/</u>				6.16
Total cost <u>1/</u>				197.87
Less value of manure				12.00
Net cost per mule				185.87

- 1/ Does not include a charge for taxes and shelter.
- 2/ Average of corn and hay prices reported by months for North Carolina. Other items based on farmers' estimates.
- 3/ Average of estimates for 58 farmers.
- 4/ Average cost of mules when purchased, \$246.38. Estimated years of useful life, 12.34.
- 5/ Interest calculated at 5 per cent on one-half of purchase price of mules.

Table 11. Production requirements and operating expenses per acre for cotton with tractor power and mule power, Northern Coastal Plains, 1943

Item	Unit	Price per unit	Tractor power 1/		Mule power 2/	
			Quantity	Value	Quantity	Value
		Dollars	Number	Dollars	Number	Dollars
Operating expenses:						
Man labor (tractor driver)	hrs.	.195	7.1	1.38	-	-
Man labor (common labor)	hrs.	.147	18.7	2.75	52.0	7.64
Picking	lbs.	.015	813.0	12.19	813.0	12.19
Tractor work		.54	7.1	3.83	-	-
Mule work		.23	2.0	.46	42.4	9.75
Equipment charge 3/				1.28		.93
Seed	bu.	1.00	1.0	1.00	1.0	1.00
Fertilizer	lbs.	.015	600.0	9.00	600.0	9.00
Side dressing	lbs.	.02	150.0	3.00	150.0	3.00
Hauling to gin	lbs. lint.	.002	309.0	.62	309.0	.62
Ginning	cwt. "	.95	309.0	2.94	309.0	2.94
Total 4/				38.45		47.07

1/ Average for 36 mechanized farms.

2/ Average for 128 farms operated with mules.

3/ Includes repairs, depreciation, and interest on tractor-drawn equipment for mechanized farms (excluding combines and peanut pickers). Includes repairs, depreciation and interest on mule-drawn equipment on farms operated with mules.

4/ Does not include cost of land and management.

Table 12. Production requirements and operating expense per acre for peanuts with tractor power and mule power, Northern Coastal Plains, 1943

Item	Unit	Price per unit	Tractor power 1/		Mule power 2/	
			Quantity	Value	Quantity	Value
		Dollars	Number	Dollars	Number	Dollars
Operating expense.						
Man labor (tractor driver)	hrs.	.195	10.3	2.01	-	-
Man labor (common labor) 3/	hrs.	.147	40.7	5.98	63.0	9.26
Tractor work	hrs.	.54	10.3	5.56	-	-
Mule labor	hrs.	.23	7.5	1.72	44.5	10.23
Equipment charge 4/				2.60		.98
Seed	lbs.	.075	75.0	5.62	75.0	5.62
Shelling seed				.62		.62
Fertilizer (potash lime 10%)	lbs.	.009	350.0	3.15	350.0	3.15
Land plaster	lbs.	.006	300.0	1.80	300.0	1.80
Picking	bag	.50			13.6	6.80
Bags	bag	.25	13.6	3.40	13.6	3.40
Baling	bale	.10			22.5	2.25
Wire	bale	.011	22.5	.25	22.5	.25
<b>Total 5/</b>				<b>32.71</b>		<b>44.36</b>

- 1/ Average for 60 mechanized farms.
- 2/ Average for 128 farms operated with mules.
- 3/ Four hours of labor is included under "picking charge" and "baling charge" as 2 men are furnished with the picker and 2 with the baler.
- 4/ Includes repairs, depreciation and interest on tractor-drawn equipment for mechanized farms (excluding combine). Includes repairs, depreciation and interest on mule-drawn equipment on farms operated with mules.
- 5/ Does not include the costs of land and management.

Table 13. Production requirements and operating expense per acre for corn with tractor power and mule power, Northern Coastal Plains, 1943

Item	Unit	Price per unit	Tractor power 1/		Mule power 2/	
			Quantity	Value	Quantity	Value
			<u>Number</u>	<u>Dollars</u>	<u>Number</u>	<u>Dollars</u>
Operating expense:						
Man labor (tractor driver)	hrs.	.195	4.7	.92	-	-
Man labor (common labor)	hrs.	.147	11.7	1.72	34.5	5.07
Tractor work	hrs.	.54	4.7	2.54	-	-
Mule labor	hrs.	.23	3.0	.69	27.8	6.38
Equipment charge 3/				.85		.61
Seed	lbs.	.03	8.0	.24	8.0	.24
Fertilizer	lbs.	.015	200.0	3.00	200.0	3.00
Side dressing	lbs.	.02	100.0	2.00	100.0	2.00
Total 4/				11.96		17.30

1/ Average for 47 mechanized farms.

2/ Average for 128 farms operated with mules.

3/ Includes repairs, depreciation and interest on tractor-drawn equipment for mechanized farms (excluding combines and peanut pickers). Includes repairs, depreciation, and interest on mule-drawn equipment for farms operated with mules.

4/ Does not include the costs of land and management.

Table 14. Production requirements and operating expense per acre for soybeans with tractor power and mule power, Northern Coastal Plains, 1943

Item	Unit	Price per unit	Tractor power 1/		Mule power 2/	
			Quantity	Value	Quantity	Value
			<u>Number</u>	<u>Dollars</u>	<u>Number</u>	<u>Dollars</u>
Operating expense:						
Man labor (tractor driver)	hrs.	.195	5.5	1.07	-	-
Man labor (common labor) 3/	hrs.	.147	1.7	.25	18.4	2.70
Tractor work	hrs.	.54	5.5	2.97	-	-
Mule labor	hrs.				25.6	5.89
Equipment charge 4/				2.23		.56
Combine charge 3/					1.0	5.56
Truck charge (hauling beans)				.34	-	-
Seed	lbs.	.037	50.0	1.85	50.0	1.85
Total 5/				8.71		16.56

1/ Average for 53 mechanized farms.

2/ Average for 128 farms operated with mules.

3/ Combine labor (1.6 hours) included with combine charge for mule-operated farms.

4/ Includes repairs, depreciation, and interest on tractor-drawn equipment for mechanized farms (excluding peanut picker). Includes repairs, depreciation and interest on mule-drawn equipment for farms operated with mules.

5/ Does not include the costs of land and management.

Table 15. Production requirements and operating expense per acre for wheat with tractor power and mule power, Northern Coastal Plains, 1943

Item	Unit	Price per unit	Tractor power <sup>1/</sup>		Mule power <sup>2/</sup>	
			Quantity	Value	Quantity	Value
		Dollars	Number	Dollars	Number	Dollars
Operating expense.						
Man labor (tractor driver)	hrs.	.195	3.1	.60	-	-
Man labor (common labor) <sup>3/</sup>	hrs.	.147	3.0	.44	12.7	1.87
Tractor work	hrs.	.54	3.1	1.67	-	-
Mule labor	hrs.	-	-	-	20.6	4.74
Equipment charge <sup>4/</sup>				1.80		.46
Combine charge <sup>3/</sup>					1.0	4.00
Seed	bu.	1.50	1.75	2.62	1.75	2.62
Side dressing	lbs.	.02	1.69	3.38	1.69	3.38
Total <sup>5/</sup>				10.51		17.07

<sup>1/</sup> Average for 46 mechanized farms.

<sup>2/</sup> Average for 128 farms operated with mules.

<sup>3/</sup> Combine labor (1.6 hours) included with combine charge for mule-operated farms.

<sup>4/</sup> Includes repairs, depreciation, and interest on tractor-drawn equipment for mechanized farms (excluding peanut picker). Includes repairs, depreciation and interest on mule-drawn equipment for farms operated with mules.

<sup>5/</sup> Does not include the costs of land and management.