# CHAPTER VII

501

# SELECTED FARM EXPENDITURES, COOPERATIVE MARKETING AND PURCHASING AND FARM FACILITIES

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### CHAPTER VII.—SELECTED FARM EXPENDITURES, COOPERATIVE MARKETING AND PURCHASING, AND FARM FACILITIES

Introduction.—This chapter presents statistics collected at the 1930 census of agriculture for three series of items more or less independent in character, viz: (1) Farm expenditures for labor, fertilizer, feed, electric light and power, and farm implements and machinery; (2) cooperative marketing and purchasing by farm operators; and (3) farm facilities, which include farm motor equipment, farm home conveniences, and kind of road adjoining farms.

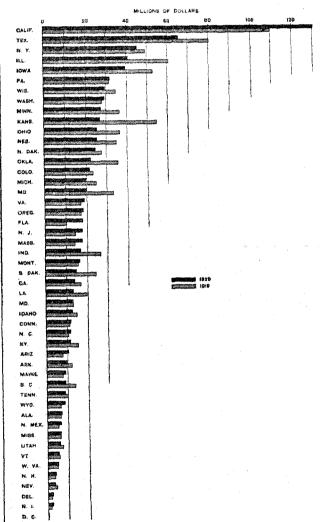
Comparable data are presented for earlier years when available. Some of the data for 1930 are presented by color and tenure of operator for the United States as a whole, and most of the remainder are presented by tenure only. Nearly all the figures for geographic divisions and States are presented by tenure. The total number of farms by color and tenure of operator, on which many of the percentages in this chapter are based, is available in Chapter III. It should be borne in mind that the number of farm operators coincides with the number of farms, so that the total of the tenures (owners, managers, and tenants) reporting any item is identical with the total number of farms reporting the same item; also, the term "number of owners reporting" is used interchangeably with the "number of owner-operated farms reporting" or with the "number of farms operated by owners reporting."

#### FARM EXPENDITURES FOR LABOR, FERTILIZER, FEED, ELECTRIC LIGHT AND POWER, AND FARM IMPLE-MENTS AND MACHINERY

Of the five classes of farm expenditures (labor, fertilizer, feed, electric light and power, and farm implements and machinery) for which information was secured in 1930, those for labor, fertilizer, and feed are direct operating costs incurred by farm operators; that for light and power may be a direct cost such as expenditures for pumping irrigation water, or an indirect cost such as expenditures for home lighting; that for implements and machinery, however, is a capital charge which should be reduced annually by an allowance for depreciation to obtain the correct charge against present operations. These expenditures, or that portion representing an annual charge, are by no means all the costs involved in farm operations. Allowances must be made for taxes, insurance, depreciation, repairs, interest, rent, return on invested capital, family labor, custom work, purchase of gas and oil, livestock, packing and crating materials, sprays, poisons, seeds, irrigation water, and all such items. Among the factors which partly determine the amount of these expenditures are the tenure under which the farm is operated, the type of farming, and the locality in which the

farm is situated. The census secured information on gross cash farm-income and also for the value of the products of the farm used by the operator's family. A net farm-income figure can not be directly secured, because of the omission of the items herein listed, and also on account of changes in inventories of feed, livestock, and growing crops.

CASH EXPENDITURES FOR FARM LABOR (EXCLUSIVE OF HOUSE-WORK) BY STATES: 1929 AND 1919



In considering the expenditures for any item in one year in comparison with another year, it should be remembered that usually a change in the amount expended does not measure a like change in the physical quantity of the article purchased. Unit prices, then, should be considered along with dollar volume to obtain the actual change in the physical quantity purchased in two different periods. This change in the physical volume of a composite group such as feed or fertilizers, or in services purchased, can a series and

not be readily measured. Various products in changing quantities and analyses make up the groups "feed" and "fertilizers," while the wages paid for hired services vary between years, seasons, according to perquisites furnished, and other considerations.

It should also be noted that differences in the expenditures for feed in any particular State between periods, or among States for the same period, may be partially due to shortage or abundance of feed. An increase or decrease in the expenditures for fertilizers may be partially due to high or low prices received for farm products in the year prior to the expenditures. An increase or decrease in the expenditures for hired labor may be reflected, in part, in a

decrease or an increase in expenditures for machinery and supplies.

The data for each of the items of expenditure are presented for the calendar year next preceding the year in which the census was taken. For labor. figures are presented for the decennial periods 1899 to 1929; for fertilizer, 1879 to 1929; for feed, 1909 to 1929; and for all three items for the interdecennial period 1924. The information on electric light and power and for farm implements and machinery was first obtained for the year 1929. Current figures for the United States by tenure of operator are presented in Table 1, while historical figures are presented in Table 2.

# TABLE 1.—FARM EXPENDITURES, WITH FARMS REPORTING, FOR LABOR, FERTILIZER, AND FEED, 1929, 1924, AND 1919; FOR ELECTRIC LIGHT AND POWER AND IMPLEMENTS AND MACHINERY, 1929; AND BY TENURE OF OPERATOR, 1929 AND 1924; FOR THE UNITED STATES

	-									-, •, •								
		PARM	LABOR (RXCL)	JSIVE (	M HOUSE.	WOR	K)		COMMERCIAL FERTILIZER, MANURE, MARL, LIME, AND GROUND LIMESTONE 1								ONE 1	
			Days of hi	red						т	otal ex (all	penditu tems)	ires	Com	mercia	l fertilizer on	ly	
TENURR AND YEAR	Farms rep	orung	labor		Cash	Cash expenditures			Farms reporting		Amount			Farms reporting purchases		Tons pure	hased	
	Number	Per cent of all farms	Number	A ver- age per farm re- port- ing	Amour	Amount		A ver- age per farm re- port- ing	Nur	Number		T	otal fi	ver- ige per irm re- ort- ng	Number	Per cent of al farm	Number	Aver- age per farm re- port- ing
Total	2, 631, 601 2, 536, 721	41.8 39.8	410, 984, 722	156	\$955, 420, 864, 982, 1, 098, 712,	813 384	\$2. 32	\$363 341	2, 324 2, 184 2, 271 1, 371	1, 090 1, 056	37. 0 34. 3	\$271, 0 230, 5 326, 3	58, 673 \$ 28, 446	117 106	2, 239, 546	35,	6 7, 535, 022	3. 36
1919 Owners	2, 536, 721 2, 888, 999 1, 717, 713 1, 651, 061	44.8 48.1 42,7	263, 479, 687	153	611, 939, 560, 809.	820 980	2, 32	380 356 340	11 1. 334	(. Z/I   I	38.4 34.6	156,0	62,735	144 114 106	1, 304, 177	36.	5 4, 209, 186	3, 23
Full owners	1, 332, 637 385, 076 38, 617	45, 8 58, 6 69, 1	189, 349, 033 74, 130, 654 42, 935, 164	142 193 1,112	432, 595. 179, 364, 115, 256.	304 516 827	2, 28 2, 42 2, 68	325 466 2,985	1,158	3, 118 3, 142 2, 476	39.8 32.5 40.2	129, 1 20, 9 14, 7	34, 342         11           28, 393         12           38, 266         65           57, 581         61		1, 103, 119 201, 058 20, 655	30,	3 732, 302	3, 15 3, 64 15, 86
1924 Tenants	28, 433 875, 271	69.9 32.9 34.8	104, 569, 871	119	75, 186, 228, 203, 228, 986,	330 966	2.18	2, 644 261 267	1 14	1, 552 0, 354 2, 233 5, 878	35.8 34.9 33.8	8,9 100,2	57, 581 57, 672 83, 773 21, 946	616 108 97	914, 714			3. 28
Cash	857, 227 183, 267 092, 004	37.5 31.8	27, 816, 099 76, 753, 772	152 111	62, 985, 165, 218,	908	2, 26 2, 15	344 239	140 781	5, 878 3, 476	30. 0 36. 0	17, 2 83, 0	21, 946 85, 726	117 106	142, 202 772, 512			3, 28 3, 28
		Fl	EED			r AND	POWE	R	<u> </u>					HINERY (INCI TOR TRUCES)	DNIDU			
TENURE AND YEAR	Farms rej	orting	dwellings by elect	Farms reporting dwellings lighted Farms r by electricity purch (Apr. 1, 1930)			porting	eorting Expenditure (paid to powe companies)		ower	s) Farms reporting value of		Farms rep purchas	orting	Expenditures			
	Number	Per cent of all farms *	Amount	A ver- age per farm re- port- ing	Number	Pe cent farr repo in dwe ing	of ne ort-Nu g ell-	1	Per cent of all farms	Am	ount	Aver- age per farm re- port- ing	imple- ments and ma chinery (Apr, 1 1930)	;	Number	Per cent of all farms	Amount	Aver- age per farm re- port- ing
Total	8, 283, 400 3, 190, 739	52, 2 50, 1	\$919, 189, 626 750, 444, 560	\$280 235	841, 310	14	. 8 57	71, 007	9.1	\$46, 4	33, 885	\$81	5, 529, 42	4	1, 750, 588	27.8	\$692, 54S, 108	\$396
1919 Owners	3, 511, 121 2, 209, 385 2, 162, 717 1, 787, 204	\$4.4 61.9 55.9	\$919, 189, 626 750, 444, 560 1, 097, 224, 648 665, 597, 091 542, 580, 734	312 301 251	693, 083	20		77, 487	13, 4	35, 1(	30, 996	74	8, 228, 47	- 1	1, 121, 720	81,4	473, 114, 873	422
Full owners	1, 787, 204 422, 181 31, 388 22, 704	61.4 64.3 56.2 55.8	524, 001, 568 141, 595, 523 45, 908, 498 26, 074, 713	293 335 1, 463 1, 148	586, 557 106, 526 19, 647	21 16 40	17 0	09, 859 37, 628 13, 902	14, 1 10, 3 24, 9	6,10	30, 318 30, 678 73, 491	71 90 336	2, 598, 20 630, 21 46, 83	4	836, 090 285, 630 19, 524	28.7 43.5 34.9	313, 405, 201 159, 709, 672 17, 311, 436	375 559 887
Tenants	1,042,627 1,005,318	39.1 40.8	207, 684, 037 181, 789, 113	199 181	128, 580			79, 618	3.0		19, 398	84	2, 254, 6	9	609, 344	22.9	202, 121, 794	382
Other	259, 722 782, 905	53, 1 36, 0	80, 650, 469 127, 033, 568	311 162	54,087 74,493	12		86, 484 13, 134	7.5 2.0	3, 1 3, 4	78, 920 70, 478	87 80	426, 3 1, 828, 2	16	141, 329 468, 015	28.9 21.5	48, 036, 365 154, 085, 429	340 329

[Statistics for divisions and States in Tables 3, 4, 5, 6, 7, and 8]

All of these products were specifically called for in the question covering expenditures for 1929; marl was not specified for 1924; and only manure and fertilizer were
 <sup>3</sup> See text discussion and footnots 1, on Table 2.
 <sup>4</sup> Based on all farms in each tenure class, see Chapter III.
 <sup>4</sup> Based on farms reporting dwellings in each tenure class, see Chapter III.

TABLE 2.—FARM EXPENDITURES FOR LABOR, 1899 TO 1929; FOR FERTILIZER, 1879 TO 1929; AND FOR FEED, 1909 TO 1929; WITH FARMS REPORTING, 1909 TO 1929; FOR THE UNITED STATES

ITEM	1929	1919	1909	1899	1989	1879
LABOR 1						
Farms reporting. Per cent of all farms	2, 631, 601 41. 8	2, 888, 999 44. 8	2, 922, 279 45, 9			
Total expenditures.	********	\$1, 356, 565, 463	\$651, 611, 287 \$294, 219, 357	\$357, 391, 930		
Fer cent of increase. A verage expenditure per farm reporting		108.2 \$470	82.3 \$223		****************	
Amount in cash Increase over preceding census <sup>1</sup> Per cent of increase <sup>1</sup>	\$955, 420, 313	\$1, 098, 712, 517 \$576, 982, 576				
A verage expenditure per farm reporting Value of rent and board furnished	\$363	110.6 \$380 \$257,852,946	\$179	****************		
Days of hired labor.	410.984.722	\$237, 532, 940				
FERTILIZER 3			********			******
Farms reporting expenditures. Per cent of all farms	2, 324, 090 37, 0	2, 271, 179 35, 2	1,823,032 28.7			
Amount expended. Increase over preceding census <sup>1</sup> Per cent of increase <sup>2</sup>	\$271, 058, 673 \$55, 840, 847	\$326, 399, 520 \$211, 516, 979	28.7 \$114, 882, 541 \$61, 451, 631	\$53, 430, 910 \$14, 961, 312	\$38, 469, 598	\$28, 586, 397
Average expenditure per farm reporting	-17.0 \$117	184.1 \$144	115.0 \$63	38.9	34.6	
Average expenditure, based on all farms Average expenditure per 1,000 acres of crop land harvested	\$43 \$755		\$18			
Tons of commercial fertilizer purchased Farms reporting. Average number of tons per farm reporting	7, 535, 022 2, 239, 546					
Average number of tons per farm reporting	3, 36					
Farms reporting expenditures	3, 283, 400	3, 511, 121	9 368 905	*****		
Per cent of all farms	52.2	54. 4 \$1, 097, 224, 648	37.2 \$299.839.857			
Amount expended Increase over preceding census <sup>1</sup> Per cent of increase <sup>2</sup>	-16.2	\$797, 384, 791 265, 9		**********		
Average expenditure per farm reporting	\$280	\$312	\$127			

[Statistics for divisions and States in Tables 3, 6, 7, and Sj

<sup>1</sup> For 1929, 1919, 1909, and 1899 the schedules specifically excluded housework. For 1929 the question was confined to the amount spent in cash; for 1919 and 1909 two questions were asked, one relating to the amount spent in cash and the other to value of house rent and board furnished; while for 1899 one question was asked relating to the amount expended including the value of board furnished.
<sup>1</sup> A minus sign (--) denotes decrease.
<sup>1</sup> For 1929 the question specifically called for amount expended for commercial fertilizer, manure, marl, lime, and ground limestone; for 1919, manure and fertilizer; for 1909, manure and other fertilizers; and for 1899, 1889, and 1879, fertilizers.

Expenditures for farm labor.-Since first made in the census of 1900 this inquiry has expressly excluded housework. The questions covering farm labor for the years 1929 and 1924 related to the amount actually expended in cash, that is, money wages exclusive of the value of rent, board, and other perquisites furnished; for 1919 and 1909 a separate figure was obtained for the cash expenditure and another for the estimated value of rent and board furnished farm laborers; while for 1899 the one inquiry covered the combined cash expenditure and estimated value of board furnished.

In 1930, for the first time, the farm schedule carried an inquiry relating to the number of days of farm work done in 1929 by hired laborers of all ages. The average wage per day as presented in the accompanying tables is affected by the season, by the amount of board, rent, or supplies furnished, by term of employment, and other conditions.

The number of farms reporting cash expenditures for farm labor in 1929 was 2,631,601, or 41.8 per cent of all farms in the United States; 39.8 per cent of all farms in 1924; while in 1919 and 1909 the value of rent and board furnished was included with cash expenditures, and the per cent was, respectively, 44.8 and 45.9. The days of farm work done by hired laborers in 1929 amounted to 410,984,722, or an average of 156 days per farm reporting. The cash expenditure for labor in 1929 amounted to \$955,420,313 or an average daily wage of \$2.32 and an average of \$363 for the year for each farm reporting. Among the States the percentage of all farms reporting cash expenditures for labor, in 1929, varied from 15.3 per cent in Mississippi to 74.2 per cent in North Dakota; the average number of days of hired labor employed ranged from a low of 88 in both North Carolina and Tennessee to a high of 641 in Arizona; the lowest average wage per day, \$1.04, was reported in South Carolina and the highest, \$3.55, in California; and the extremes in the average amount expended per farm reporting were \$117 in Alabama and \$1,723 in Nevada.

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For the country as a whole, manager-operated farms exceeded those held under other tenure in the percentage reporting expenditures for labor, in the average number of days of hired labor per farm reporting, in the average daily wage paid to farm laborers, and in the average annual expenditure per farm reporting. In some cases it was probable that when replying to this question, farm managers included their own compensation.

The percentage of all managers reporting expenditures for labor in 1929 was 69.1 for the United States. In the States, the range was from 48.7 per cent in Kentucky to 82.8 per cent in both Massachusetts and New Hampshire. These percentages appear to be somewhat low, since managed farms usually require labor in addition to that of the manager. The percentage of all owners reporting expenditures for labor for the United States was 48.1, ranging from a low of 27.5 per cent in Mississippi to a high of 75.8 per cent in North Dakota, and for all tenants the percentage for the United States was 32.9, ranging from 10.4 per cent in Mississippi to 71.1 per cent in North Dakota.

The average number of days of farm work done by hired laborers in 1929, for the United States as a whole, was 1,112 days for manager-operated farms, 153 days for owner-operated farms, and 119 for tenant-operated farms. This average for manager-operated farms ranged from 554 in Iowa to 5,124 in Louisiana; for owner-operated farms from 78 in West Virginia to 489 in Nevada; and for tenant-operated farms from 49 in Mississippi to 724 in Arizona.

The average daily wage paid on manager-operated farms was \$2.68, on owner-operated farms \$2.32, and on tenant-operated farms \$2.18. The average daily wage on farms operated by managers varied from \$1.25 in South Carolina to \$3.76 in Washington; on farms operated by owners, from \$1.02 in South Carolina to \$3.59 in California; and on farms operated by tenants, from \$1.01 in South Carolina to \$3.50 in Connecticut.

The average expenditure per farm reporting by tenure of operators was: Managers, \$2,985, owners, \$356, and tenants, \$261. Among the States the figures for managers varied from \$1,275 in Tennessee to \$7,001 in Louisiana; for owners, from \$126 in Tennessee to \$1,424 in Nevada; and for tenants, from \$61 in Alabama to \$1,946 in Arizona.

Farm expenditures for fertilizers.—Various products have been included under this heading in the different census years. For the 1929 expenditures the schedule specifically called for the inclusion of commercial fertilizers, manure, marl, lime, and ground limestone; in the question for 1924, marl was not specified; for 1919 the question specified manure and fertilizer; for 1909 the question specified manure and other fertilizers; while for 1899, 1889, and 1879 the schedules mentioned "fertilizers" only.

In addition to the expenditure for fertilizer, in 1930 the general farm schedule carried for the first time an inquiry relating to the tonnage of commercial fertilizer purchased, excluding in this question the other forms of plant food and soil conditioners.

There were 2,324,090 farms, or 37 per cent of all farms in the United States on April 1, 1930, which reported expenditures for one or more of the items classed here under "fertilizers." With due consideration to these differences, the percentage of all farms reporting can be compared with 34.3 per cent for the year 1924, 35.2 per cent for 1919, and 28.7 per cent for 1909.

The percentage of all farms reporting expenditures for fertilizers in the year 1929 varied from 0.4 in South Dakota to 88.2 in South Carolina. The amount expended in 1929 totaled \$271,058,673, which was an increase of 17.6 per cent over the amount expended in 1924 and a 17 per cent decrease from the amount expended in 1919. The average expenditure for 1929 per farm reporting was \$117 for the United States, ranging from \$35 in Kentucky to \$593 in California.

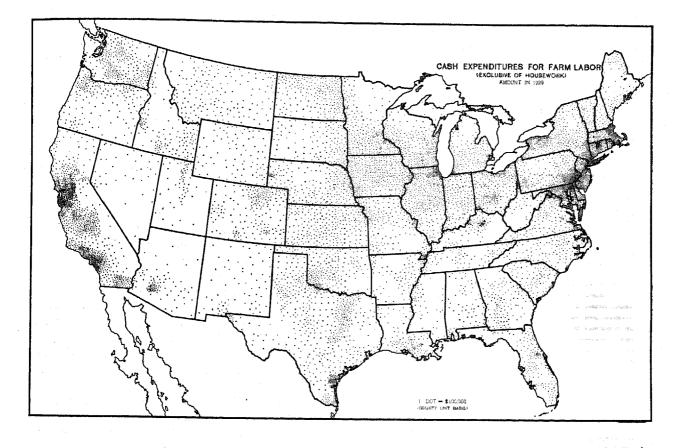
The total number of farms reporting the quantity of commercial fertilizer purchased in 1929 was 2,239,546 or 35.6 per cent of all farms and the number of tons purchased was 7,535,022 or 3.36 tons per farm reporting. Commercial fertilizer is often purchased in small quantities such as a fraction of a ton, or in amounts exceeding even tons. Such fractions were included in arriving at totals.

The use of commercial fertilizer is most common in the cotton and tobacco areas of the South Atlantic and East South Central States, in the concentrated truck, fruit, and specialized crop areas in many States, and to a lesser degree in general farming areas in several States. Thus, nearly 60 per cent of all farms reporting purchases of commercial fertilizer in 1929 were in the two geographic divisions just mentioned, and these same farms reported nearly 65 per cent of the total quantity. The South Atlantic division alone had 36 per cent of all the farms reporting commercial fertilizer and 49 per cent of the tonnage. The greatest average per farm reporting, however, was 9.60 tons in New Jersey.

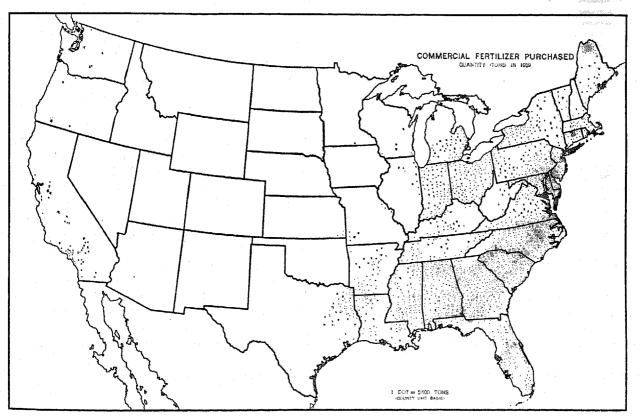
Figures, by tenure of operator, are available in Table 1 for the United States and in Table 3 for divisions and States.

Farm expenditures for feed.—The number of farms reporting feed purchased in 1929 was 3,283,400, or 52.2 per cent of all farms in the United States on April 1, 1930. The percentages for earlier years were 50.1 for 1924, 54.4 for 1919, and 37.2 for 1909. The expenditures for feed in 1929 amounted to \$919,189,626, which represents an increase of 22.5 per cent over 1924 and 16.2 per cent decrease from the expenditures in 1919. The average expenditure per farm reporting for 1929 was \$280; for 1924, \$235; for 1919, \$312; and for 1909, \$127.

The percentage of all farms reporting feed purchased in 1929 was highest in the New England and Middle Atlantic divisions, with 83.8 per cent and 82.1 per cent, respectively. These two divisions are in general areas producing insufficient feed for local requirements, so that while only 12 per cent of the farms in the United States reporting feed purchased were located in these two divisions, their purchases were approximately 24 per cent of the total value of feed purchased.

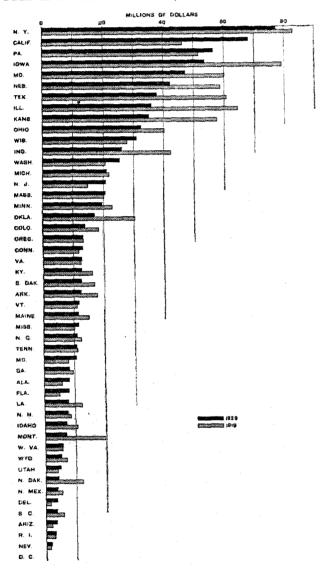


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In some areas much of the expenditure for feed represents amounts paid by farm operators for products grown locally which do not pass through the hands of dealers. In other sections, particularly areas where insufficient feed for home use is raised, products must be shipped in from distant points, so that the actual expenditure for a given quantity is higher than in areas

FARM EXPENDITURES FOR FEED, BY STATES: 1929 AND 1919



of surplus production. For the States the percentage of all farms purchasing feed in 1929 ranged from 88 per cent in Vermont to 25.4 per cent in South Carolina, and the average expenditure per farm reporting varied from a high of \$1,054 in Rhode Island to alow of \$89 in South Carolina.

Electric light and power purchased from a power company.—The number of operators reporting their dwellings lighted by electricity as of April 1, 1930, was 841,310, or 14.3 per cent of all farms reporting dwellings; of this number, 571,007 reported light and power purchased from a power company. These expenditures amounted to \$46,483,885, or an average of \$81 per farm reporting, the average ranging from \$38 in Utah to \$252 in Arizona.

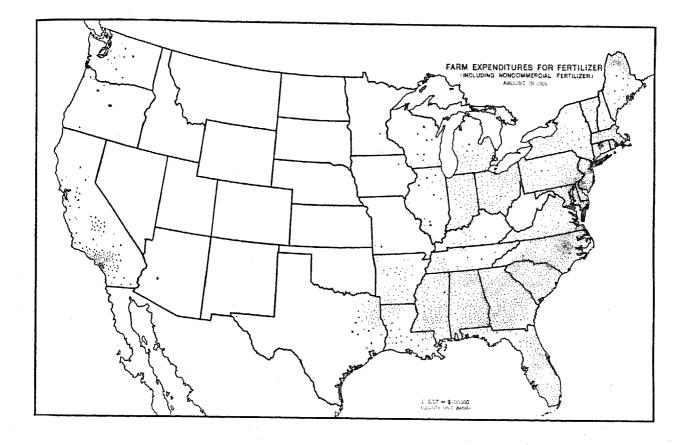
Not all farms which reported the operator's dwelling lighted by electricity purchased it from power companies, for in numerous cases farm homes have an individual home lighting plant. It is also possible for an operator to be a customer of a power company and still not have his dwelling lighted by electricity.

The nature of the farm operations, the section of the country, and the availability of electricity have much to do with the percentage of farms reporting purchases and the actual amount paid to power companies. Thus those sections of the country in which irrigation, requiring pumping, is practiced tend to be the largest consumers of electricity. The Pacific division, with approximately 21 per cent of all farms reporting light or power purchased, represented about 39 per cent of the total expenditure.

A number of farms reported a higher expenditure than could be normally expected. In some cases it was probable that enumerators had reported expenditures made for power line construction which had been incurred by the power company and the cost thereof assessed against individual users. Some reports probably covered expenditures for equipment "purchased from power companies.

Expenditures for farm implements and machinery.— The number of farms reporting purchases of implements and machinery in 1929 was 1,750,588, or 27.8 per cent of all farms in the United States on April 1, 1930. The number reporting the value of their inventory of implements and machinery for April 1, 1930, was 5,529,424 or 87.9 per cent of all farms. This data, distributed by tenure of operator, is presented in Table 1 for the United States, and in Table 5 for divisions and States. The percentage of farms reporting purchases was lowest in Kentucky with 10.8 per cent and highest in North Dakota with 52.9 per cent.

The expenditures for the year 1929 amounted to \$692,548,103, or an average of \$396 per farm reporting. This average varied from a low of \$87 in Georgia to a high of \$838 in Montana. The two North Central divisions reported 53.5 per cent of the total expenditures in 1929, whereas they represented only 34.8 per cent of all the farms reporting a value of implements and machinery, according to inventory, April 1, 1930.



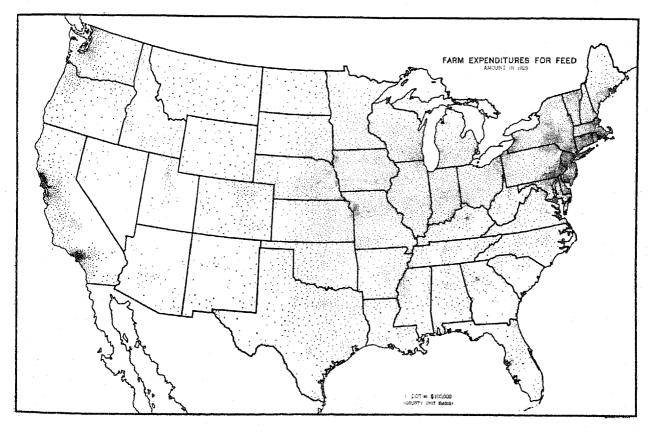


TABLE 3FARM	EXPENDITURES	FOR 1	LABOR,	FERTILIZER,	AND	FEED,	1929	AND	1924; DAYS OF HIRED OF OPERATOR; BY

	an na kualuudalan ka maanin kualuuda ku				COMMERCIAL FERTILIZER ONLY, 1929											
		F	arms report	ing		Description			Cash expens	litures	Farms rej purch		Tons pur	chased		
	DIVISION OR STATE AND TENURE	Nur	nbe <b>r</b>		ent of rms <sup>2</sup>	Days of hired 1929	r ranor,	Am	ount	Avera farnı r ir	ge per eport- ig	A ver-		Per		Aver-
		1929	1924	1529	1984	Number	A ver- age per farm report- ing	1929	1924	1929	929 1924		Number	of all farms <sup>2</sup>	Number	age per ferm report- ing
	UNITED STATES															
1 2 3 4	Total Owners Managers Tenants	1 217 718	2, 596, 721 1, 651, 061 28, 433 857, 227	41.8 48.1 69.1 32.9	39. 8 42. 7 69. 9 34. 8	410, 984, 722 263, 479, 687 42, 935, 164 104, 569, 871	156 153 1, 112 119	2955, 420, 313 611, 959, 820 115, 256, 527 228, 203, 966	\$664, 962, 384 560, 809, 980 75, 186, 330 228, 986, 074	\$868 356 2, 985 261	8841 340 2, 644 267	\$2. 32 2. 32 2. 68 2. 18	2, 239, 546 1, 304, 177 20, 655 914, 714	85.6 86.5 37.0 34.3	7, 535, 022 4, 209, 186 327, 595 2, 998, 241	8, 36 3, 23 15, 86 3, 28
	GEOGRAPHIC DIVISIONS															
	NEW ENGLAND															
5 6 7 8	Total. Owners Managers Tenants	73, 836 67, 309 2, 336 4, 191	77, \$13 71, 320 2, 043 8, 950	59.1 59.0 79.6 53.2	48.5 48.1 83.0 44.5	16, 356, 600 13, 132, 825 2, 346, 150 877, 625	222 195 1, 004 209	49, 839, 145 39, 477, 077 7, 884, 778 2, 477, 290	41, 245, 110 32, 655, 757 6, 686, 727 1, 902, 626	675 587 3, 375 591	533 458 8, 273 482	8.05 3.01 8.36 2.82	68, 318 62, 740 1, 898 3, 680	54.7 55.0 64.6 46.7	845, 803 301, 681 24, 258 19, 364	5.05 4.81 12.78 5.26
	MIDDLE ATLANTIC															
9 10 11 12	Total Owners Managers Tenants	167, 968 164, 650 4, 450 28, 868	214, 878 174, 649 8, 415 36, 815	55.4 55.0 73.5 55.0	51. 3 50. 2 76. 5 55. 6	35, 907, 799 26, 784, 626 4, 117, 910 5, 005, 263	181 163 925 173	94, 687, 576 69, 299, 306 13, 320, 812 12, 067, 458	80, 797, 449 60, 901, 065 7, 780, 131 12, 116, 253	478 421 2, 993 418	376 349 2, 278 329	2.64 2.59 3.23 2.41	206, 325 172, 980 3, 674 29, 671	57, 7 57, 8 60, 7 56, 6	798, 433 621, 015 33, 744 143, 674	8, 87 8, 59 9, 18 4, 84
	EAST NORTH CENTRAL															
13 14 15 16	Total Owners Managers Tenants	448, 362 317, 122 5, 427 125, 813	472, 901 329, 777 4, 180 138, 344	46,4 45,7 62.9 47,7	<b>44.9</b> 42.7 63 3 50.7	60, 663, 746 40, 517, 473 4, 075, 001 16, 071, 272	185 128 751 128	132, 476, 146 87, 797, 410 11, 195, 118 33, 483, 618	126, 504, 858 83, 249, 638 7, 567, 212 35, 687, 408	295 277 2,063 266	268 252 1, 810 258	2, 18 2, 17 2, 75 2, 08	\$18, 594 239, 664 3, 037 75, 893	83. 0 34. 5 35. 2 28. 7	778, 057 542, 033 20, 798 210, 226	2, 43 2, 26 6, 85 2, 77
	WEST NORTH CENTRAL															
17 18 19 20	Total Owners Mansgers Tenants	603, 904 365, 247 4, 404 234, 253	608, 112 366, 071 3, 294 238, 747	54.3 55.2 58.9 52.7	54.7 53.4 59.1 56.9	76, 337, 244 47, 722, 725 2, 862, 589 25, 751, 930	126 131 650 110	178, 678, 067 110, 597, 280 7, 238, 410 60, 842, 397	186, 963, 867 118, 560, 437 4, 056, 054 64, 347, 376	296 303 1, 644 260	307 324 1, 231 270	2.34 2.32 2.53 2.36	56, 419 40, 992 536 14, 891	5, 1 6, 2 7, 2 3, 4	106, 332 73, 408 2, 901 30, 023	1, 88 1, 79 5, 41 2, 02
21	SOUTH ATLANTIC Total	367, 185	306, 598	34.7	27.7	57, 253, 008	156	91, 879, 757	78, 885, 988	250	239	1 00	non too	70.0		4 50
21 22 23 24	Managers Tenants	229, 456 6, 753 130, 976	198, 455 4, 476 108, 667	42.5 75.3 25.7	32.6 72.9 21.0	36, 341, 989 7, 826, 213 13, 084, 806	158 1,159 100	58, 103, 062 15, 158, 247 18, 618, 448	49, 715, 787 8, 852, 342 14, 767, 854	253 2, 245 142	251 1, 978 142	1.60 1.60 1.94 1.42	808, 199 893, 213 7, 064 407, 922	76.4 72.8 78.8 80.1	3,707,305 1,738,901 177,438 1,790,966	4. 59 4. 42 25. 12 4. 39
25	EAST SOUTH CENTRAL Total	230, 148	193, 262	23.5	19.2	05 551 005	94	00 WHA 005	02 010 000	107	1.05					
12677 26728	Owners Managers Teriants	156, 880 1, 725 91, 543	121, 763 943 70, 556	83.7 59.7 15.4	24. 5 54. 5 13. 9	23, 551, 895 16, 134, 621 1, 778, 782 5, 618, 492	103 1,031 61	\$3, 774, 889 22, 830, 223 3, 111, 559 7, 833, 107	26, 016, 383 18, 305, 145 1, 404, 386 6, 306, 802	135 146 1, 804 86	135 150 1, 489 89	1.44 1.41 1.75 1.39	529, 175 256, 841 1, 389 270, 945	49, 8 55, 2 48, 1 45, 6	1, 185, 827 576, 814 20, 054 588, 959	2.24 2.25 14.44 2.17
29	WEST SOUTH CENTRAL Total	394, 848	386, 280	35.8	28.0	56, 208, 283	148	110, 614, 558	119, 705, 023	000			010 570			1.07
30 31 32	Owners Mausgers Tenants	190, 332	173, 658 1, 964 210, 658	46.4 59.7 29.3	42.1 64.2 35.0	30, 529, 123 5, 750, 899 22, 118, 261	160 1,750 110	58, 122, 750 9, 764, 935 42, 726, 873	59, 085, 800 5, 646, 980 54, 972, 243	280 305 2,972 212	810 340 2, 875 261	1,89 1,90 1,70 1,93	219,778 111,159 792 107,822	19.9 27.1 14.4 15.7	431, 855 232, 020 10, 894 188, 941	1,97 2,09 13,76 1,75
33	MOUNTAIN Total	132, 285	128, 865	54.8	55.2	81, 941, 774	236									
34 35 36	Owners Managers Tenants	98, 795 2, 476 31, 014	128, 565 96, 437 1, 685 20, 746	55.2 69.0	53.8 59.9 59.4	81, 941, 774 21, 228, 171 3, 621, 567 6, 392, 036	236 215 1, 463 206	85,897,086 58,227,713 9,811,803 17,857,570	68, 350, 305 48, 134, 894 5, 754, 056 14, 461, 355	649 589 8, 963 576	530 499 8, 415 470	2.75 2.74 2.71 2.79	3, 824 2, 979 160 685	1.6 1.7 4.5 1.2	10, 272 -6, 970 1, 563 1, 739	2.69 2.34 9.77 2.54
37	PACIFIC Total	163, 065	149, 108	02.8	58.1	51, 294, 373	61F	177 176 000	140 004 10-	1						
38 30 40	Owners Managers Tenantz	168, 069 127, 922 7, 760 27, 383	149, 108 118, 931 6, 433 28, 744	62.3 62.2 78.8 59.2	55.1 57.9 57.4	81, 294, 273 31, 088, 124 10, 556, 053 9, 630, 180	\$15 243 1, 360 352	177, 578, 069 107, 504, 999 37, 770, 865 82, 297, 205	142,064,106 90,201,507 27,438,442 24,424,157	1,089 840 4,867 1,179	953 758 4, 265 1, 029	8.46 3.46 3.58 3.35	28, 919 23, 609 2, 105 3, 205	11.0 11.5 21.4 6.9	176, 638 116, 344 35, 945 24, 349	6, 11 4, 93 17, 08 7, 60
41	NEW ENGLAND Maine, total	22,795	09 614		A	0 000 07-										
42 43 44	Owners Managers Tenants	21, 567	23, 641 22, 714 282 645	58.4 58.7 75.0 48.5	47.8 47.3 80.6 38.0	8, 090, 656 2, 740, 894 237, 301 112, 461	136 127 629 132	9, 042, 533 7, 975, 866 742, 865 323, 802	6, 799, 791 6, 134, 397 449, 092 216, 302	397 370 1, 970 380	288 270 1, 593 335	2.93 2.91 3.13 2.88	23, 865 22, 558 338 969	61. 2 61. 4 67. 2 55. 2	170, 950 156, 160 6, 031 8, 759	7, 16 6, 92 17, 84 9, 04
45 46 47 48	New Hampshire, total Managers Tenants	8, 849 8, 152 294 403	9, 292 8, 812 138 342	50, 4 59, 3 82, 8 50, 6	44.1 44.8 88.8 33.7	1, 410, 359 1, 138, 254 219, 604 52, 501	159 140 747 130	8, 980, 361 3, 131, 635 718, 224 130, 502	8, 014, 573 2, 612, 932 314, 054 87, 587	450 384 2,443 324	324 297 2, 276 256	2.82 2.75 3.27 2.49	6, 947 6, 402 223 822	46.6 40.5 62.8 40.5	11, 500 9, 330 1, 581 589	1.66 1.46 7.09 1.83

\* Based on all farms in each tenure class, see Chapter III.

# LABOR, AND TONS OF COMMERCIAL FERTILIZER PURCHASED, 1929; WITH FARMS REPORTING; BY TENURE DIVISIONS AND STATES

EXPENDITU	JRES FOR CO	MMERCI.	AL FERI	NLIZER, MANUE LESTONE	E, MARL, LIME	, AND G	ROUND					FEED				
[	Farms report	ling			Amount			1	<sup>r</sup> arms report	ing			Expenditures			-
Nur	nber	Per c all fa	ent of rms <sup>2</sup>			farm	ige per report- ng	Nur	nber	Per e ali fa		Am	ount	farm	ge per report- og	
1929	1924	1929	1924	1929	1924	1929	1924	1929	1924	1929	1524	1929	1994	1929	1924	
2, 324, 090	2, 184, 056	87. 0	34. 3	\$271, 058, 673	\$230, 528, 446	8117	\$106	8, 283, 400	8, 190, 789	52. 2	50, 1	\$919, 189, 626	\$750, 444, 560	\$280	\$285	
1, 371, 260	1, 337, 271	38. 4	34. 6	156, 062, 785	141, 187, 092	114	106	2, 209, 385	2, 162, 717	61. 9	55, 9	665, 597, 091	542, 580, 734	301	251	
22, 476	14, 552	40. 2	35. 8	14, 738, 256	8, 957, 581	656	616	31, 388	22, 704	56. 2	55, 8	45, 908, 498	26, 074, 713	1,463	1,148	
930, 354	832, 233	34. 9	33. 8	100, 257, 672	80, 383, 773	108	97	1, 042, 627	1, 005, 318	39. 1	40, 8	207, 684, 037	181, 789, 113	199	181	
68, 537	74, 289	54. 9	48, 6	15, <b>413</b> , <b>246</b>	16, 336, 211	225	220	104, 673	130, 968	83. 8	82. 1	67, 416, 302	64, 821, 537	644	495	
62, 947	69, 088	55. 2	46, 6	13, <b>417</b> , 835	14, 180, 409	213	205	95, 984	121, 902	84. 1	82. 3	59, 219, 298	57, 999, 050	617	476	
1, 903	1, 577	64. 8	64, 1	1, 158, 651	1, 286, 309	609	816	2, 390	2, 056	81. 4	83. 5	4, 011, 959	3, 202, 005	1, 679	1, 557	
3, 687	3, 624	46. 8	40, 9	836, 760	869, 403	227	240	6, 299	7, 010	79. 9	79. 0	4, 185, 105	3, 620, 482	664	516	
224, 819 189, 258 4, 042 31, 489	250, 649 208, 478 2, 966 89, 205	62, 9 63, 3 66, 8 60, 0	59, 8 59, 9 66, 4 59, 2	30, 202, 326 23, 677, 163 1, 389, 869 5, 135, 294	\$1, 393, 261 24, 782, 553 940, 128 5, 670, 580	134 125 344 163	195 119 317 145	293, 504 245, 883 4, 661 39, 960	320, 362 268, 395 3, 362 48, 605	82. 1 83. 2 77. 0 76. 2	76.5 77.1 75.3 73.4	154, 686, 628 126, 355, 213 7, 504, 116 20, 827, 299	122, 164, 790 99, 555, 451 4, 116, 210 18, 493, 129	527 508 1,610 521	881 371 1,224 880	10 1 1
350, 789	315, 639	86. 3	30, 0	29, 283, 692	22, 139, 610	83	70	642, 422	605, 911	66. 5	57.6	146, 849, 753	119, 625, 205	229	197	11111
264, 427	236, 126	88. 1	30, 6	20, 747, 729	15, 912, 340	78	67	480, 067	455, 742	69. 3	59.0	107, 638, 978	87, 370, 917	224	192	
8, 485	2, 141	40. 4	32, 4	964, 480	495, 316	277	231	5, 251	3, 639	60. 8	55.0	5, 616, 146	2, 879, 184	1,070	793	
82, 877	77, 372	81. 4	28, 3	7, 571, <del>4</del> 83	5, 731, 954	91	74	156, 204	146, 539	59. 2	53.7	33, 594, 629	29, 375, 104	215	200	
67, 978	44, 007	6.1	4.0	4, 471, 581	3, 092, 167	66	70	678, 626	600, 966	61.0	54.1	214, 675, 483	173, 780, 878	816	289	1
49, 304	83, 530	7.5	4.9	8, 089, 522	2, 209, 686	63	68	427, 920	378, 568	64.7	55.2	142, 130, 710	116, 558, 420	332	308	1
696	229	9.3	4.1	150, 482	50, 577	216	221	4, 949	2, 515	54.2	45.2	7, 330, 675	3, 312, 441	1, 810	1, 317	1
17, 978	10, 248	4.0	2.4	1, 231, 577	771, 904	69	75	246, 657	219, 883	55.5	52.4	65, 214, 098	53, 600, 017	264	245	2
813, 149	842, 966	76. 8	7 <b>6. 1</b>	119, 258, 902	110, 472, 100	147	181	427, 520	402, 747	40. 4	<b>36, 9</b>	63, 898, 397	49, 769, 841	149	124	2222
396, 776	429, 789	73. 5	70. 5	56, 139, 822	57, 109, 157	141	183	275, 555	274, 003	51. 0	45, 0	45, 686, 500	86, 149, 068	166	132	
7, 147	4, 605	79. 7	75. 0	6, 366, 166	3, 464, 118	891	752	4, 061	3, 013	45. 3	49, 1	3, 862, 204	2, 243, 779	951	745	
409, 226	408, 572	80. 3	82. 9	56, 732, 914	49, 898, 827	139	122	147, 901	125, 731	29. 0	25, 5	14, 344, 633	11, 376, 994	97	90	
580, 273	446, 618	49. 9	44. 4	40, 093, 986	25, 890, 508	76	58	<b>390, 887</b>	<b>363, 894</b>	<b>36</b> . 8	<b>\$6. 6</b>	43, 041, 378	85, 582, 920	110	97	24222
257, 496	239, 739	55. 3	48. 2	19, 046, 570	13, 375, 511	74	56	229, 422	215, 032	49, 3	43. 2	27, 188, 285	23, 042, 091	119	107	
1, 398	857	48. 4	49. 5	709, 305	388, 669	507	454	1, 499	825	51. 9	47. 7	2, 559, 057	878, 087	1,707	1,064	
271, 379	206, 017	45. 7	40. 7	20, 338, 091	12, 126, 328	75	59	159, 966	152, 837	26. 9	30. 2	13, 294, 036	11, 662, 742	83	76	
221, 100	178, 496	20.0	17.5	15, 719, 081	11, 461, 382	71	64	454, 367	486, 710	41, 2	47, 8	76, 220, 485	72, 778, 489	<b>166</b>	150	29
112, 004	94, 135	27.3	22.8	8, 441, 005	6, 408, 035	75	68	219, 294	229, 400	53, 4	55, 7	42, 791, 823	38, 608, 863	195	168	3(
812	538	14.7	17.6	468, 913	577, 917	577	1,074	2, 711	1, 713	49, 2	56, 0	4, 812, 198	2, 534, 747	1,775	1, 480	3)
108, 284	83, 823	15.8	13.9	6, 809, 163	4, 475, 480	63	53	232, 362	255, 597	33, 8	42, 4	27, 616, 464	31, 634, 879	119	124	31
δ, 817	4, 077	2.4	1.7	630, 169	378, 113	108	93	117, 397	107, 395	48.6	48.0	46, 834, 374	<b>\$1, 637, 625</b>	399	295	32
4, 646	3, 454	2.6	1.9	420, 332	284, 563	90	82	90, 306	81, 935	50.5	45.7	34, 759, 437	22, 976, 618	385	280	34
188	61	5.2	2.5	100, 978	22, 188	537	364	1, 742	1, 146	48.5	47.6	3, 521, 782	2, 202, 439	2, 022	1, 922	31
983	562	1.7	1.1	108, 859	71, 362	111	127	25, 349	24, 314	48.1	47.0	8, 543, 155	6, 408, 568	337	266	30
41, 628	27, 820	15.9	10. 3	16, 005, 710	9, 365, 094	884	343	174, 004	166, 986	66, 5	<b>62, 9</b>	106, 581, 766	80, 333, 275	613	481	\$33334
34, 372	22, 932	16.7	10. 6	11, 082, 757	6, 864, 838	822	299	141, 051	137, 740	68, 6	63, 8	79, 826, 787	60, 320, 256	566	488	
2, 805	1, 578	28.5	19. 1	3, 429, 422	1, 732, 271	1, 223	1,098	5, 024	4, 444	51, 0	53, 8	6, 690, 361	4, 705, 821	1, 332	1,059	
4, 451	2, 810	9.6	6. 8	1, 493, 531	767, 985	336	273	27, 929	24, 802	60, 4	59, 9	20, 064, 618	15, 307, 198	718	617	
23, 953 22, 643 340 970	25, 487 24, 440 242 755	61. 4 61. 6 67. 6 55. 3	50.8 50.9 69.1 44.4	- 7, 287, 869 6, 672, 067 247, 117 868, 685	7, 095, 555 6, 479, 898 298, 496 317, 161	<b>304</b> 295 727 380	279 265 1, 233 420	30, <b>493</b> 28, 943 373 1, 177	87, 257 35, 890 211 1, 156	78.2 78.8 74.2 67.1	74. 5 74. 8 60. 3 68. 0	11, 497, 733 10, 704, 144 389, 459 404, 130	11, 907, 509 11, 443, 825 146, 771 316, 913	877 370 1,044 843	320 319 696 274	444
6, 960	6,983	46.7	<b>33.</b> 1	439, 914	440, 634	63	63	12, 716	17, 228	85, 3	81. 8	7, 622, 921	7, 467, 404	599	433	444
6, 415	6,571	46.6	33. 0	355, 345	386, 466	55	59	11, 762	16, 244	85, 5	81. 6	6, 879, 515	6, 954, 908	585	428	
223	105	62.8	67. 3	56, 911	39, 234	255	374	295	145	83, 1	92. 9	420, 878	213, 584	1,427	1, 473	
322	307	40.5	30. 3	27, 658	14, 934	86	49	659	839	82, 8	82. 7	322, 528	298, 962	489	356	

# TABLE 3.—FARM EXPENDITURES FOR LABOR, FERTILIZER, AND FEED, 1929 AND 1924; DAYS OF HIRED OF OPERATOR; BY DIVISIONS

			<u></u>		FARB	LABOR (EXCL	USIVE O	F HOUSEWOR	K)				COMME	RCIAL FE	RTILIZER O 29	NLY,
		Fa	rms report	ing	a fi fa an an Affra (an a				Cash expend	ditures		Farms re purch	porting ases	Tons pur	chased	
	DIVISION OR STATE AND TENURE	Nun	iber		ent of rms *	Days of hired 1929	labor,	Amo	munt	farm 1	ge per eport- ig	Aver-		Per		Aver-
		1929	1924	1929	1924	Number	Aver- age per farm report- ing	1929	1924	1929	1924	age wage per day, 1929	Number	cent of all farms <sup>2</sup>	Number	age per farm report- ing
	NEW ENGLAND-Con.															
1224	Vermont, total Owners Managers Tenants	15, 364 13, 687 361 1, 316	14, 822 13, 217 230 1, 375	61.7 62.2 75.2 54.6	58.3 53.1 74.9 53.1	2, 430, 947 2, 001, 054 223, 360 206, 533	158 146 619 157	\$5, 495, 428 4, 401, 654 684, 882 408, 892	\$4, 559, 726 3, 706, 252 375, 433 418, 041	\$358 322 1,897 311	\$308 285 1, 632 804	\$2, 26 2, 20 3, 07 1, 98	11, 928 10, 731 264 933	47.9 48.8 55.0 38.7	17, 443 14, 696 1, 262 1, 485	1.48 1.37 4.78 1.59
5 6 7 8	Massachusetts, total Owners Managers Tenants	15, 947 13, 685 793 709	15, 788 14, 311 823 654	59.6 59.0 82.8 53.3		5, 138, 252 4, 067, 663 833, 659 236, 930	887 297 1, 051 208	17, 288, 318 13, 497, 437 3, 081, 048 709, 833	14, 374, 649 11, 157, 879 2, 812, 794 403, 976	1, 134 986 3, 885 923	910 780 3, 418 618	3, 36 3, 32 3, 70 3, 00	14, 232 12, 891 661 680	55.6 55.6 69.0 47.2	68, 611 58, 976 6, 345 3, 290	4. 82 4. 57 9. 60 4. 84
9 10 11 12	Rhode Island, total Owners Managers Tenants	1, 885 1, 567 77 241	2, 159 1, 767 138 254	56, 7 55, 8 77, 8 58, 1	55. 2 54. 2 78. 4 53. 8	720, 981 509, 064 151, 239 60, 078	882 325 1, 964 249	2, 276, 788 1, 632, 618 471, 475 172, 695	1, 894, 161 1, 397, 427 329, 771 166, 963	1,208 1,042 6,123 717	877 791 2, 390 657	3, 16 3, 21 3, 12 2, 87	1, 872 1, 557 69 246	56, 4 55. 4 69. 7 59. 3	7, 909 6, 254 517 1, 138	4, 22 4, 02 7, 49 4, 63
13 14 15 16	Connecticut, total Owners Managers Tenants	9, 696 8, 651 434 611	11, 611 10, 499 432 680	56.4 55.5 80.2 57.2	50. 0 49. 4 87. 4 45. 7	3, 566, 005 2, 675, 896 680, 987 209, 122	868 309 1, 569 342	11, 755, 717 8, 837, 867 2, 186, 284 731, 566	10, 602, 310 7, 586, 870 2, 405, 583 609, 757	1, 212 1, 022 5, 038 1, 197	913 723 5, 568 897	3, 30 3, 30 3, 21 3, 50	9, 474 8, 601 343 530	55, 1 55, 2 63, 4 49, 6	68, 890 56, 265 8, 522 4, 103	7, 27 6, 54 24, 85 7, 74
17 18 19 20	MIDDLE ATLANTIC New York, total Owners Managers Tenants	90, 455 77, 122 1, 974 11, 359	101, 091 84, 225 1, 769 15, 097	56.6 56.7 74.4 53.8	53, 6 52, 7 78, 2 56, 9	17, 419, 896 13, 676, 964 1, 654, 439 2, 088, 433	198 177 838 184	45, 421, 486 84, 970, 107 5, 341, 418 5, 109, 961	42, 235, 628 32, 503, 335 4, 383, 423 5, 348, 870	502 453 2,706 450	418 386 2, 478 354	2, 61 2, 56 3, 23 2, 45	81, 424 69, 751 1, 377 10, 296	51, 0 51, 3 51, 9 48, 8	287, 959 231, 226 10, 004 46, 729	3, 54 3, 32 7, 27 4, 54
21 22 23 24	New Jersey, total. Owners	14, 648 11, 629 499 2, 520	15, 478 12, 090 812 3, 076	57, 7 56. 0 75. 7 63. 5	62. 2 49. 3 75. 5	5, 636, 346 3, 824, 185 913, 451 898, 710	385 329 1, 831 257	17, 552, 491 11, 968, 339 3, 009, 634 2, 574, 518	14, 186, 113 10, 656, 928 1, 166, 517 2, 362, 668	1, 198 1, 029 6, 031 1, 022	917 881 8, 739 768	3. 11 3. 13 3. 29 2. 86	16, 913 13, 712 471 2, 730	66. 6 66. 0 71. 5 69. 1	162, 361 123, 061 9, 552 29, 748	9. 60 8. 97 20. 28 10. 90
25 26 27 28	Fennsylvania, total Owners Managers Tenants	92, 865 75, 899 1, 977 14, 989	98, 310 78, 334 1, 334 18, 642	53. 9 53. 3 72. 1 54. 7	49, 0 47, 9 74, 5 58, 8	12, 851, 617 9, 283, 477 1, 550, 020 2, 018, 120	138 122 784 135	\$1, 713, 599 22, 560, 860 4, 969, 760 4, 382, 979	94, 875, 708 17, 740, 802 2, 230, 191 4, 404, 715	842 295 2, 514 292	248 226 1, 672 236	2, 47 2, 41 3, 21 2, 17	107, 988 89, 517 1, 826 16, 645	62, 6 62, 9 66, 6 60, 8	348, 113 266, 728 14, 188 67, 197	3, 22 2, 98 7, 77 4, 04
29 30 31 32	EAST NOBTH CENTRAL Ohio, total Owners Managers Tenants	90, 863 65, 835 1, 110 23, 418	82, 190 64, 468 766 26, 956	41. 2 41. 2 60. 2 40. 7	\$7. 7 35. 5 72. 3 43. 3	11, 055, 757 7, 589, 747 874, 072 2, 591, 988	122 115 787 111	25, 409, 282 17, 416, 439 2, 481, 240 5, 511, 603	22, 025, 027 14, 706, 756 1, 620, 801 5, 698, 470	281 265 2, 235 235	239 228 2, 116 211	2. 30 2. 29 2. 84 2. 13	129, 486 95, 710 1, 086 32, 690	59, 0 59, 9 58, 9 56, 7	330, 444 229, 775 7, 119 93, 550	2.55 2.40 6.56 2.86
33 34 35 36	Indiana, total Owners Managers Tenants	68, 943 46, 771 827 21, 345	<b>86, 430</b> 43, 475 683 22, 272	88. 0	\$3.9 31.6 53.9	8, 257, 812 5, 378, 691 487, 652 2, 391, 469	120 115 590 112	16, 786, 860 10, 930, 968 1, 175, 936 4, 679, 456	14, 648, 159 9, 392, 846 764, 356 4, 490, 957	243 234 1,422 219	221 216 1, 119 202	2.03 2.03 2.41 1.96	81, 679 57, 633 706 23, 340	45. 0 45. 9 47. 8 42. 8	206, 144 134, 831 3, 891 67, 422	2, 52 2, 34 5, 51 2, 89
37 38 39 40	Tilinois, total Owners Managers Tenants	112, 916 59, 231 1, 328 52, 357	124, 543 64, 560 1, 138 58, 845	52.6 49.4 62.6 56.6	55, 2 50, 0 60, 6 62, 2	18, 216, 502 9, 436, 422 1, 129, 880 7, 650, 200	161 159 851 146	40, 946, 060 21, 331, 118 3, 085, 960 16, 528, 982	43, 146, 174 21, 988, 373 2, 416, 685 18, 741, 116	363 360 2, 324 316	\$46 841 2, 124 318		15, 143 9, 437 270 5, 436	7, 1 7, 9 12, 7 5, 9	53, 800 31, 049 2, 954 19, 797	3. 55 3. 29 10, 94 3. 64
41 42 43 44	Michigan, total Owners Managers Tenants	76, 078 64, 228 1, 064 10, 786	85, 213 70, 778 821 13, 614	44, 9 45, 3 69, 5 41, 2	44. 3 43. 7 66. 5 46. 8	8, 267, 791 6, 370, 187 916, 945 986, 661	109 99 856 91	19, 859, 747 15, 082, 845 2, 699, 477 2, 070, 925	19, 847, 287 15, 510, 678 1, 759, 232 2, 577, 377	261 235 2,537 192	233 219 2, 143 189	2, 40 2, 37 2, 96 2, 10	66, 550 55, 916 618 10, 016	39. 3 39. 5 40. 4 38. 2	140, 083 113, 920 4, 270 21, 893	2, 10 2, 04 6, 91 2, 19
45 46 47 48	Wisconsin, total. Owners. Managers. Tenants	100, 062 81, 057 1, 098 17, 967	103, 925 86, 496 772 16, 657	55.0 55.1 66.2 54.1	66. 2	14, 865, 884 11, 742, 426 672, 454 2, 451, 004	149 145 612 137	29, 481, 697 23, 036, 540 1, 752, 505 4, 692, 652	26, 836, 611 21, 650, 985 1, 006, 138 4, 179, 488	295 284 1, 596 262	258 250 1,303 251	1. 98 1. 96 2. 61 1. 91	25, 738 20, 968 357 4, 411	14. 2 14. 3 21. 5 13. 3	42, 586 32, 458 2, 564 7, 564	1.65 1.55 7.18 1.71
49 50 51 52	WEST NOETH OENTRAL Minnesota, total. Owners	105, 057 70, 466 711 33, 850	104, 934 72, 664 472 31, 788		55.7 53.3 61.6 62.2	15, 204, 376 8, 847, 251 539, 937 3, 818, 988	126 126 758 113	27, 596, 878 18, 184, 714 1, 419, 036 7, 923, 128	27, 463, 229 19, 316, 283 606, 578 7, 540, 368	262 258 1,995 234	262 266 1, 285 237	2.08 2.06 2.63 2.08	8,968 6,559 138 2,271	4.8 5.2 13.2	15, 803 11, 351 668 3 784	1.76 1.78 4.84 1.67
53 54 55 56	Iowa, total Owners Managers Tenants	122, 609 62, 877 1, 124 58, 668	118,753 62,266 999 56,488	57. 1 56. 5 56. 8	56, 1 53, 5 60, 5	0, 613, 685 17, 608, 422 9, 433, 900 622, 416 7, 552, 106	144 150 554 129	39, 681, 156 21, 139, 410 1, 547, 371 16, 994, 375	7, 540, 508 85, 529, 168 19, 851, 543 961, 632 14, 715, 993	328 336 1, 377	297 319 963	2.25 2.24 2.49	2, 271 10, 015 6, 116 120 3, 779	8.9 4.7 5.5 6.1 8.7	8, 784 21, 177 12, 151 833 8, 193	2, 11 1, 99 6, 94

<sup>1</sup> Marl was not specified in the question covering expenditures in 1924.

<sup>2</sup> Based on all farms in each tenure class, see Chapter III.

### LABOR, AND TONS OF COMMERCIAL FERTILIZER PURCHASED, 1929; WITH FARMS REPORTING; BY TENURE AND STATES—Continued

								**************************************							1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -
F	arms report	ing			Amount		·	F	arms report	ng		******	Expenditures	} 	
Num	ıbe <b>r</b>	Per c all fa	ent of rms 1	1		farm i	ige per report- ig	Nun	ıber	Per o all fg		And	ount	farm	igo per Seport- Sg
929	1924	1929	1924	1929	1924	1929	1924	1929	1924	1929	1924	1929	1924	1929	1924
11, 945	18,006	48. 0	46. 8	\$681,259	8793, 793	\$57	<b>\$61</b>	21, 900	23, 287	<b>88. 0</b>	83. 8	\$11, 546, 995	\$10, 034, 490	<b>\$527</b>	8431
10, 747	11,699	48. 8	47. 0	575,546	683, 470	54	58	19, 468	20, 898	88. 5	84. 0	10, 045, 429	8, 773, 093	516	420
264	178	55. 0	58. 0	49,470	33, 952	187	191	398	245	82. 9	79. 8	445, 794	283, 318	1, 120	1,156
934	1,129	38. 8	43. 6	56,243	76, 871	60	68	2, 034	2, 144	84. 4	82. 8	1, 055, 772	978, 079	519	456
14, 289	15, 146	55.8	<b>45. 3</b>	3, 014, 621	3, 336, 237	211	220	<b>21, 634</b>	28, 853	84. 5	<b>86, 2</b>	20, 671, 133	19, 775, 434	955	685
12, 943	13, 980	55.8	45. 3	2, 606, 622	2, 868, 596	201	205	19, 676	26, 847	84. 8	87, 0	17, 756, 620	17, 308, 578	902	645
662	600	69.1	61. 3	279, 985	350, 383	423	584	787	837	82. 2	85, 5	1, 808, 982	1, 690, 126	2, 299	2,019
684	566	47.4	35. 3	128, 014	117, 258	187	207	1, 171	1, 169	81. 2	72, 8	1, 105, 531	776, 730	944	664
1, 890	2, 184	<b>56.9</b>	55.8	<b>336, 198</b>	<b>301, 414</b>	178	138	2, 892	<b>3, 633</b>	87. 1	92, 9	8, 047, 274	<b>3, 046, 410</b>	1, 054	889
1, 573	1, 801	56.0	55.2	264, 169	229, 947	168	128	2, 437	3, 017	86. 8	92, 5	2, 370, 544	<b>2, 414, 488</b>	973	800
71	126	71.7	71.6	21, 747	25, 848	306	205	83	168	83. 8	95, 5	209, 310	172, 991	2, 522	1,030
246	257	59.3	54.4	50, 280	45, 619	204	178	372	448	89. 6	94, 9	467, 420	458, 931	1, 257	1,024
9, 500	11, 533	55.2	<b>49.6</b>	<b>3, 653, 387</b>	<b>4, 36</b> 8, 578	385	\$79	15, 038	20, 710	87. 5	89. 1	13, 030, 308	12, 590, 290	866	608
8, 626	10, 597	55.3	49.8	2, 944, 086	3, 532, 032	341	333	13, 698	19, 006	87. 9	89. 4	11, 463, 046	11, 104, 158	837	584
343	326	63.4	66.0	503, 421	538, 486	1, 468	1,652	454	450	83. 9	91. 1	737, 536	695, 265	1, 625	1, 545
531	610	49.7	41.0	205, 880	298, 060	388	489	886	1, 254	83. 0	84. 3	829, 724	790, 867	936	631
0, 500	102, 403	56. 6	54. 3	11, 505, 537	11, 606, 671	127	113	131, 917	145, 614	82, 5	77. 1	77, 399, 938	82, 075, 138	587	426
7, 765	80, 381	57, 2	54. 0	9, 157, 371	9, 298, 678	118	108	113, 706	124, 578	83, 6	77. 9	64, 967, 838	51, 870, 191	571	416
1, 575	1, 368	59, 4	60. 5	428, 871	388, 601	272	284	2, 104	1, 759	79, 3	77. 8	8, 192, 261	2, 364, 175	1, 517	1, 344
1, 160	14, 654	52, 9	55. 2	1, 919, 295	1, 919, 892	172	131	16, 107	19, 277	76, 3	72. 6	9, 236, 849	7, 840, 772	574	407
6, 948	20, 191	66.8	68. 0	6, 583, 368	8, 597, 114	388	426	20, 970	24, 906	82, 8	83. 9	20, 828, 358	16, 469, 007	998	661
3, 745	16, 418	66.2	66. 9	5, 021, 830	6, 667, 865	365	406	17, 395	20, 730	83, 7	84. 5	16, 267, 887	13, 332, 375	935	643
471	306	71.5	74. 1	398, 663	246, 495	846	806	494	305	75, 0	73. 8	1, 741, 744	600, 880	8, 526	1,970
2, 782	3, 467	69.2	73, 4	1, 162, 875	1, 682, 754	426	485	3, 081	3, 871	78, 0	82. 0	2, 818, 727	2, 535, 752	915	655
17, 371	128, 055	68. 1	63. 9	12, 113, 421	11, 189, 476	103	87	140, 617	149, 842	81. 8	74. 8	56, 458, 332	43, 620, 645	402	291
97, 778	105, 679	68. 7	64. 6	9, 497, 962	8, 816, 010	97	83	117, 782	123, 087	82. 8	75. 2	45, 119, 488	34, 352, 885	383	279
1, 996	1, 292	72. 8	72. 1	562, 335	305, 032	282	236	2, 063	1, 298	75. 2	72. 5	2, 570, 121	1, 151, 155	1, 246	887
17, 597	21, 084	64. 2	60. 3	2, 053, 124	2, 068, 434	117	98	20, 772	25, 457	75. 8	72. 8	8, 768, 723	8, 116, 605	422	319
11, 372	137, 207	59, 9	56, 1	11, 028, 050	9, 081, 866	84	66	140, 122	142, 395	63.9	58. 2	<b>32, 603, 845</b>	26, 086, 571	233	183
97, 272	100, 062	60, 9	55, 2	7, 810, 905	6, 432, 294	80	64	107, 287	108, 035	67.1	59. 6	24, 657, 791	19, 374, 135	230	179
1, 127	671	61, 2	63, 3	277, 419	139, 042	246	207	1, 143	689	62.0	65. 0	1, 248, 968	624, 294	1, 093	906
92, 973	36, 474	57, 2	58, 5	2, 939, 726	2, 510, 330	89	69	31, 692	33, 671	55.0	54. 1	6, 697, 086	6, 088, 142	211	181
3, 006 8, 617 742 3, 647	76, 950 54, 627 546 21, 777	45.7 46.7 50.2 43.3	39. 3 39. 7 43. 1 38. 1	7, 054, 319 4, 643, 034 156, 103 2, 255, 182	5, 711, 549 3, 896, 625 83, 407 1, 731, 517	85 79 210 95	74 71 153 80	113, 734 83, 225 816 29, 693	102, 795 74, 714 577 27, 504	62, 6 66, 3 55, 2 54, 4	52. 5 54. 4 45. 5 48. 2	<b>26, 135, 018</b> 18, 707, 017 768, 168 6, 659, 833	19, 085, 687 13, 463, 616 369, 466 5, 232, 605	225 941 224	185 180 640 190
0, 639	21, 559	14.3	9.6	3, 593, 825	2, 238, 465	117	104	143, 337	128, 484	66.8	57.0	\$5,973,465	<b>\$2, 871, 062</b>	251	256
9, 936	14, 526	16.6	11.3	2, 198, 631	1, 408, 858	110	97	84, 915	76, 245	70.8	59.1	22,296,150	20, 310, 655	263	266
488	254	23.0	13.5	176, 335	131, 452	861	518	1, 195	892	56.3	47.5	1,505,573	923, 275	1, 260	1,035
0, 215	6, 779	11.0	7.2	1, 218, 859	698, 155	119	103	57, 227	51, 347	61.9	54.2	12,171,742	11, 637, 122	213	227
2, 128	61, 874	42.6	32. 2	5, 474, 121	3, 970, 662	76	64	107, 275	95, 302	63. 2	49.6	21, 050, 635	14, 599, 725	196	153
50, 813	51, 545	42.9	31. 8	4, 447, 212	3, 257, 105	73	63	91, 959	80, 961	64. 9	50.0	17, 209, 883	11, 963, 308	187	148
701	469	45.8	38. 0	218, 758	100, 699	312	215	965	699	63. 1	56.6	1, 135, 009	551, 649	1, 176	789
6, 614	9, 860	40.5	33. 9	808, 151	612, 858	76	62	14, 351	13, 642	54. 8	46.8	2, 705, 743	2, 084, 768	189	153
3, 644	18, 049	18.5	9. 3	2, 183, 377	1, 137, 268	63	63	137, 954	136, 935	75. 9	70.9	31, 086, 790	27, 002, 160	225	197
5, 644 427 5, 428	18,049 15,366 201 2,482	18. 0 18. 9 25. 7 16. 4	9.5 9.5 17.2 8.3	2, 133, 377 1, 647, 947 135, 865 349, 565	917, 458 917, 458 40, 716 179, 094	59 318 64	60 203 72	113, 581 1, 132 23, 241	115, 787 773 20, 375	77. 3 68. 2 70. 2	71. 5 66. 2 68. 1	24, 768, 137 958, 428 5, 360, 225	27, 002, 180 22, 259, 203 410, 500 4, 332, 457	218 847 231	192 531 213
9, 402	4, 989	<b>5. 1</b>	2.7	714, 055	453, 944	76	91	113, 627	95, 044	61, 3	50, 5	19, 678, 966	14, 638, 502	173	154
6, 871	4, 045	5. 4	3.0	510, 993	350, 886	74	87	80, 664	70, 805	63, 7	51, 9	13, 685, 502	10, 830, 477	170	153
147	51	14. 0	6.7	38, 814	19, 478	264	382	610	373	58, 3	48, 7	538, 919	210, 558	883	564
2, 884	893	4. 1	1.7	164, 248	83, 580	69	94	32, 353	23, 866	56, 1	46, 7	5, 454, 545	3, 597, 467	169	151
15, 787 10, 089 208	6, 382 4, 266 56	7. 3 9. 0 10. 5	5.0 3.7 3.4	1, 171, 393 704, 377 47, 076	537, 703 351, 209 12, 271 174, 223	74 70 226	84 82 219	145, 500 79, 844 1, 061	134, 282 76, 390 694	67.7 71.7 53.6	62.9 65.6 42.1	53, 702, 953 32, 227, 594 1, 439, 771 20, 035, 588	49, 281, 009 31, 000, 078 762, 119 17, 518, 817	<b>369</b> 404 1,357	367 406 1,098

# TABLE 3.—FARM EXPENDITURES FOR LABOR, FERTILIZER, AND FEED, 1929 AND 1924; DAYS OF HIRED OF OPERATOR; BY DIVISIONS

	ant act, <del>daret for a</del> gyrani.			FARM	LABOR (EXCL	Usive (	of Housewol	tK)				COMMER	CIAL FE 19	RTILIZER O 29	NLY,
	Fa	rms report	ing				an a	Cash expend	litures		-	Farms rep purchs		Tons pure	hase
DIVISION OR STATE AND TENURE	Num	ber	Per ce all fa		Days of hired 1929	labor,	Amo	unt	A verag farm re in	port-	Aver- age		Per		Av
	1929	1954	1629	1984	Number	A ver- age per farm report- ing	1939	1994	1929	1924	wage Der day, 1929	Number	cent of all farms <sup>2</sup>	Number	far far repo
WEET NORTH CEN- TRAL-Continued	· · · · · · · · · · · · · · · · · · ·													•	
Missouri, total Owners Managers Tenants	96, 649 68, 746 868 27, 065	94, 715 64, 762 560 29, 395	87. 8 41. 6 52. 3 30. 4	36.4 37.1 52.7 34.6	10, 662, 848 7, 233, 109 593, 759 2, 835, 960	110 105 735 105	\$19, 851, 509 13, 246, 091 1, 877, 718 5, 227, 700	\$19, 631, 739 12, 317, 305 650, 307 5, 664, 127	\$205 193 1,705 193		\$1.86 1.83 2.32 1.84	32, 564 25, 128 229 7, 207	12.7 15.2 14.8 8.1	57, 432 42, 195 1, 221 14, 016	1 1 5 1
North Dakota, total Owners, Managers Tenants.	\$7, 898 37, 996 366 19, 476	62, 650 40, 833 289 20, 928	74. 2 75. 8 77. 9 71. 1	\$1.7 82.5 80.1 80.2	8, 765, 369 6, 111, 544 216, 173 2, 437, 652	152 161 591 125	94, 694, 684 17, 122, 109 552, 988 6, 919, 587	33, 502, 859 23, 458, 257 488, 079 9, 558, 323	425 451 1, 511 355	540 574 1, 682 457	2. 81 2. 80 2. 56 2. 84	342 251 12 79	0.4 0.5 2.6 0.3	958 624 45 289	92.00
South Dakota, total Owners Managers Tenants	48, 762 27, 475 273 21, 014	49, 540 28, 084 105 21, 291	60.2 60.1		a, 822, 889 156, 502	126 139 573 103	14, 647, 198 9, 034, 015 392, 815 5, 220, 362	15, 499, 334 9, 776, 915 224, 275 5, 491, 144	1,439	<b>313</b> 348 1, 359 258	2, 38 2, 36 2, 51 2, 41	103 73 1 29	0,1 0,2 0,2 0,1	133 77 1 55	
Nebraska, total Owners Managers Tenants	76, 806 40, 781 574 35, 451	74, 950 39, 472 857 85, 121	60.5 56.3 58.1	63.4 59.2	5, 791, 448 355, 128 3, 799, 539	129 142 619 107	25, 356, 051 14, 573, 323 910, 057 9, 872, 671	22, 560, 194 13, 376, 539 527, 346 8, 656, 309	357 1,585 278	301 389 1,477 246	2, 55 2, 52 2, 56 2, 60	428 238 10 180	0.3 0.4 1.0 0.3 2.4	782 439 20 273 10,097	
Kansas, total Owners Managers Tenants South Atlantic	96, 123 56, 906 548 38, 669	102, 180 57, 990 452 43, 738	60.1 57.4	60.9	6, 482, 584 379, 574	104 114 693 81	27, 020, 617 17, 297, 618 1, 038, 425 8, 684, 574	<b>33, 764, 544</b> <b>20, 463, 595</b> 599, 837 12, 721, 112	304	381 353 1,327 291	2.70 2.67 2.74 2.76	8, 999 2, 627 26 1, 346	2.8	6, 571 113	
Delaware, total Owners. Managers. Tensuts. Maryland total	5, 285 3, 542 118 1, 625 25, 454	4, 420 2, 711 6( 1, 645 24, 665	8 56.6 8 71.5 8 49.5	41. ( 89. 2 44. 1	658,110 2 115,616 316,507	206 186 980 195 234	323, 230 657, 962	1, 768, 536 874, 949 228, 172 665, 412 9, 833, 006	434 2,739 405	400 323 3, 457 404 899	2, 84 2, 80 2, 08	7, 525 5, 072 113 2, 340 53, 676	68.5	25, 516 1, 840 15, 380	1
Owners. Managers. Tenants	18, 077 747 6, 630	17, 04 71 6, 90	1 58.6 2 79.6	1 48. 8 78. 1	5 8, 813, 708 698, 756	211 929	8,407,231	6,016,801	465	853	2.20	24, 046 741 8, 889	78.0	114, 539 10, 428	
District of Co- lumbia, total Owners Managers	70 38 18 14	71 41 14 20	2   64. 4 6   85. 1	1 \$1. 84.	9 21, 899 2 70, 223 3 3, 424	576 3, 901 245	60, 116 248, 791	74, 48- 230, 61 17, 40-	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	14, 413	2, 75 8, 54 2, 32	72 40 16 10	67.8 76.2 66.7	128 187 42	3
Virginia, total Owners Managers Tenants	49, 545 1, 124 11, 782	88	5 40.1 9 73.1	) 33. 2 71.	1 7, 381, 238 8 1, 279, 338	140	13, 018, 252	11, 017, 14:	2 263 5 2,446	1.773	1.76	108, 162 76, 680 1, 032 30, 450	0 63.3 2 67.2	247, 979	
West Virginia, total Owners Managers Tenauts	98, 993 25, 400 445	21, 25	6   38. 1 4   61. 7	2 28. 7 59.	4 1, 974, 844 5 338, 457	78	8, 743, 21( 783, 02	2, 808, 17 544, 38	4 147 4 1,760	1, 382	1.90	26, 591	1 89.9 54.9	87,76	5
North Carolina, total Owners Managers Tenauts		27	\$ 37. 5 70.	4 25. 2 65.	7 4, 965, 496 0 618, 244	i 94 i 1, 359	1 7, 839, 871 1, 107, 13	569,28	5   2,433	120	3 1.48 0 1.79	56	3   83.3 1   86.0	3 505,08 3 14,45	4
South Carolina, total Owners. Managers. Tenants	- 25, 171 - 492	20,64	7 46.1	2 84. 0 70	4 6, 612, 311 9 774, 29	221	) 5, 749, 55 4 967, 13	5, 589, 34 438, 93	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	27	1   1.02 2   1.25	47, 57	0 87.3 2 85.4	8 280,55 4 18,82	7
Georgia, total Owners Managers Tenants	- 78, 998 34, 887 1, 615 - 43, 425	60, 34 29, 68 1, 02 29, 63	4 80. 9 43. 3 72. 3 24.	9 94 3 33. 4 72. 9 18.	2 19, 202, 16 5 6, 751, 14 7 1, 750, 49	15 19 1,72	13, 992, 18 7, 633, 87 0 2, 326, 31	11, 926, 19 7, 404, 35 1, 630, 75	6 177 8 22 6 2,28	19 19 1 24 5 1,59	8 1.15 9 1.13 4 1.83	216, 63 67, 82 1, 15	3 84. 9 85. 8 82.	8 860,60 0 296,29 4 30,60	8
Florida, total Owners Managers Tenants EAST SOUTH CENTEAR	20, 212 2, 330 - 5, 429	19.78	5 51. 0 82.	3 43. 4 83.	4 5, 163, 24 2 2, 185, 79	1 23	5 10, 614, 07 6 4, 932, 45	8 10, 900, 53	$\begin{bmatrix} 6 & 52 \\ 5 & 2, 11 \end{bmatrix}$	5 55 1 2,80	1 2.06	27,60	9 70. 5 86.	1 231,03 6 84,81	2
Kentucky, iotal. Owners	- 70, 786 53, 384 326 - 17, 075	40, 70 14 14, 92	6 33. 1 48. 3 19.	9 23. 7 50. 3 16.	2 5, 696, 97 2 352, 93 9 1, 450, 85	2 9. 6 1,07 1 8	5 8, 228, 79 3 830, 32 5 2, 429, 60	6 6, 613, 00 7 281, 50 2 1, 986, 27	)2   15 )5   2, 52  2   14	4 16 4 1,99 8 14	2 1.61 7 2.32 2 1.67	57, 11 19 16, 50	8   36. 7   29. 7   18.	8 78,77 2 1,20 7 17,78	9 10 14
Tennessee, total Owners Managers Tenants	- 50, 284 - 344	40, 24	1 29. 6 38. 3 56. 2 18.	2 27.	1 4,636,88	6 9 8 75	2 6, 306, 80 8 438, 44	3 5, 280, 11 7 265, 70	14   12 11   1, 27	6 18 5 1,53		3 62,04 3 26	8 47.	2 90,51	1

<sup>1</sup> Based on all farms in each tenure class, see Chapter III.

LABOR, AND TONS OF COMMERCIAL FERTILIZER PURCHASED, 1929; WITH FARMS REPORTING; BY TENURE AND STATES-Continued

			LIME	LIZER, MANURE ESTONE <sup>1</sup>							۳ ;	RED			
Fe	arms report	ing			Amount			F	arms report	Ing			Expenditures		
Numl	ber	Per ce all fa	ent of			Avera farm r ir	eport-	Num	ber	Per ci all fai		Âme	ount	A vera farm r in	eport-
929	1924	1929	1924	1929	1924	1929	1924	1929	1924	1929	1924	1929	1924	1929	1924
85, 762 27, 679 269 7, 814	27, 924 22, 154 106 5, 664	14, 0 16, 7 17, 4 8, 8	10. 7 12. 7 10. 0 6. 7	\$2, 030, 492 1, 510, 531 51, 651 468, 310	\$1, 497, 843 1, 171, 160 15, 914 810, 769	\$57 55 192 60	\$54 53 150 55	167, 613 119, 429 903 47, 281	144, 742 102, 804 522 41, 416	<b>65, 5</b> 72, 2 58, 4 53, 1	55, 6 59, 0 49, 1 48, 7	\$47, 252, 496 35, 259, 049 1, 526, 503 10, 460, 944	\$33, 841, 346 25, 339, 193 639, 516 7, 862, 637	\$282 295 1, 690 221	\$234 246 1, 225 190
572 397 15 160	341 234 107	0, 7 0, 8 3, 2 0, 6	0.4 0.5 	51, 858 30, 809 2, 794 18, 255	76, 291 46, 931 29, 360	91 78 186 114	294 201 	<b>28, 296</b> 17, 320 189 10, 787	26, 260 15, 275 133 10, 852	86, 3 34, 6 40, 2 89, 4	84.6 30.9 36.8 41.6	4, 203, 745 2, 503, 016 110, 768 1, 589, 961	<b>3, 845, 079</b> 2, 224, 199 51, 729 1, 569, 151	149 145 586 147	146 146 389 145
519 205 4 110	309 182 1 126	0, 4 0, 4 0, 9 0, 3	0.4 0.4 0.3 0.4	\$1, 452 13, 148 177 8, 127	\$1, 838 28, 786 500 22, 552	87 64 44 74	168 158 500 179	40, 527 22, 835 212 17, 480	\$0, 411 16, 871 116 13, 424	<b>48.</b> 7 50. 1 46. 7 47. 1	38. 2 36. 5 35. 0 40. 6	12, 436, 826 7, 429, 255 413, 748 4, 592, 823	8, 737, 496 5, 293, 570 162, 711 3, 281, 215	<b>807</b> 825 1, 952 263	287 314 1, 403 244
685 387 11 287 \$,471 3,696 42 1,783	815 484 329 3, 247 2, 165 13 1, 069	0.5 0.6 1.1 0.5 8.3 8.9 4.4 2.5	0.6 0.7 0.3 0.6 2.0 2.3 1.8 1.5	55,709 31,230 1,112 21,367 428,629 288,434 8,858 131,330	132, 890 83, 527 220 49, 143 841, 658 237, 187 2, 194 102, 277	78 81 101 74 78 78 211 76	163 173 110 149 105 110 169 96	79, 855 44, 009 550 34, 796 103, 708 63, 819 524 39, 365	71, 092 38, 736 319 32, 037 99, 135 57, 687 358 41, 090	61. 8 65. 3 53. 9 57. 0 62. 5 67. 3 54. 9 56. 0	55.7 57.2 47.7 54.0 59.8 60.6 49.1 58.7	42, 286, 136 26, 789, 187 2, 219, 950 13, 276, 299 35, 116, 361 24, 237, 107 1, 081, 016 9, 797, 238	34, 809, 338 22, 360, 914 1, 048, 532 10, 899, 892 29, 078, 108 19, 509, 994 437, 276 9, 130, 838	533 609 4,036 382 339 380 2,063 249	483 577 3, 287 340 293 338 1, 221 222
7, 550 5, 090 115 2, 345 33, 697 24, 062 743 8, 892	7,836 5,143 61 2,632 35,595 25,243 695 9,657	77.8 81.3 69.7 71.5 78.0 78.1 79.1 77.7	76. 4 78. 9 82. 4 71, 8 7 <b>9. 6</b> 71, 8 74. 3 74. 3 74. 7	1, 300, 571 804, 772 64, 010 431, 789 5, 525, 679 3, 636, 862 312, 620 1, 575, 597	1, 142, 487 083, 650 32, 433 426, 404 5, 125, 701 3, 401, 594 191, 513 1, 532, 594	179 158 557 184 164 151 421 177	146 133 532 162 144 185 276 159	7, 417 5, 147 105 2, 165 38, 070 24, 070 662 7, 838	6, 926 4, 608 54 2, 264 32, 544 24, 453 595 7, 496	76.4 82.2 63.6 66.0 74.2 78.1 70.5 64.1	67.5 70.7 78.0 61.7 68.4 69.6 63.6 58.0	3, 684, 859 2, 846, 990 111, 383 726, 516 10, 613, 261 7, 896, 048 651, 819 2, 065, 394	1, 935, 095 1, 312, 581 94, 208 528, 216 7, 599, 600 5, 622, 217 361, 488 1, 615, 895	497 553 1,061 336 881 328 985 281	279 285 1, 746 233 234 230 608 216
78 40 17 16 10, 588 78, 725 1, 081 39, 782	89 56 11 22 196, 373 90, 640 822 34, 911	70. 2 67. 8 81. 0 66. 7 64. 8 65. 0 70. 4 64. 2	64.0 69.1 57.9 56.4 65.2 63.1 66.4 71.4	18, 159 5, 145 10, 981 2, 033 11, 780, 935 7, 312, 164 479, 601 3, 989, 170	<b>\$9, 104</b> 15,076 19, 811 4, 217 13, 082, 775 8, 246, 152 361, 260 4, 475, 363	249 129 646 127 107 93 444 130	439 269 1, 801 192 104 91 439 128	84 44 18 22 81, 507 65, 398 897 15, 212	100 57 15 28 91, 338 73, 615 695 17, 028	80.8 74.6 85.7 91.7 47.8 54.0 58.4 31.7	71. 9 70. 4 78. 9 71. 8 47. 1 51. 3 56. 1 34. 8	117,099 9,957 102,433 4,640 12,640,444 10,021,064 884,240 1,785,140	<b>201, 497</b> 84, 656 154, 821 12, 020 <b>10, 866, 783</b> 8, 397, 911 536, 234 1, 432, 538	1, 393 226 5, 691 211 155 153 986 114	<b>3,015</b> 608 10,821 429 118 114 772 84
30, 320 26, 692 396 3, 232	28, 945 25, 623 291 3, 031	\$6.7 40.1 54.9 21.1	82.0 34.2 44.0 20.5	1, 161, 087 952, 783 71, 651 136, 653	1, 049, 207 871, 153 46, 313 131, 741	38 36 181 42	36 34 159 43	44, 949 38, 595 402 5, 945	<b>51, 466</b> 43, 347 352 7, 767	54.4 58.0 55.8 38.7	56, 9 57, 8 53, 2 52, 6	5, 693, 976 4, 810, 576 168, 081 715, 819	5, 962, 191 5, 013, 768 101, 452 846, 901	197 125 418 120	116 116 288 109
284, 496 118, 892 565 115, 469	238, 519 125, 923 351 112, 045	83, 8 83, 7 87, 2 83, 9	84. 1 81. 3 83. 0 87. 4	84, 686, 830 15, 628, 115 457, 863 18, 601, 852	<b>32, 001, 784</b> 15, 323, 402 242, 486 16, 435, 896	148 132 809 161	134 122 691 147	121, 859 73, 873 281 47, 605	107, 359 66, 199 219 40, 941	43, 6 52, 2 58, 8 34, 6	51.8	11, 115, 763 7, 206, 864 487, 570 8, 421, 329	8, 674, 786 5, 571, 783 198, 940 2, 904, 063	91 98 1, 280 72	81 84 905 71
189, 234 47, 660 598 90, 967 217, 456 68, 247 1, 167 148, 042 39, 805 27, 859 2, 465 9, 481	155, 650 53, 461 321 101, 868 212, 214 73, 161 1, 191 137, 862 37, 945 30, 639 862 6, 544	88. 2 87. 5 86. 3 88. 5 85. 1 85. 5 83. 9 87. 5 83. 9 87. 5 70. 7 86. 9 56. 6	90.1 89.1 87.2 90.6 85.2 82.5 84.6 85.7 64.1 67.0 85.3 51.9	22, 080, 531 8, 847, 916 588, 744 12, 643, 871 97, 533, 063 9, 488, 579 934, 543 17, 109, 941 15, 152, 647 9, 463, 486 8, 446, 653 2, 242, 508	24, 306, 494 10, 364, 381 353, 775 13, 588, 338 91, 100, 035 734, 881 12, 069, 118 19, 967, 713 9, 907, 713 1, 481, 644 1, 335, 156	985 129 127 139 801 116 81 340 1,398	133 99 113 617 88 333 324 1,719	40, 134 17, 701 221 22, 212 77, 050 33, 117 536 43, 397 22, 457 17, 613 839 4, 005	26, 741 11, 897 96 14, 748 62, 682 29, 556 538 82, 788 83, 591 449 2, 671	25, 4 32, 5 31, 9 21, 6 80, 1 41, 5 38, 1 24, 9 38, 1 44, 7 29, 6 23, 9	19.8 26.1 13.1 25.9 33.1 38.2 20.6 39.8 44.9 44.5	8, 573, 494 1, 985, 624 200, 958 1, 320, 913 8, 357, 699 4, 763, 577 459, 232 3, 094, 840 8, 066, 841 6, 145, 500 696, 438 1, 254, 543	2, 991, 975 1, 215, 754 40, 036 1, 065, 185 6, 305, 053 3, 617, 953 2, 405, 117 6, 409, 931 5, 362, 463 474, 407 566, 059	89 112 1, 181 60 144 981 71 361 349 830 313	87 102 417 72 101 122 524 72 263 1,057 243
74, 112 57, 388 200 16, 574 96, 794 62, 188	71, 874 56, 790 83 15, 001 86, 082 60, 202	29.6	27, 8 32, 4 29, 5 18, 1 34, 1 40, 5	2, 598, 592 2, 064, 887 36, 928 490, 777 4, 110, 068 2, 608, 801 54, 965	2, 278, 874 1, 863, 046 12, 685 403, 116 2, 785, 785 2, 038, 727 24, 714 722, 310	185 30 42 42	153 27 32 34	105, 486 80, 848 329 24, 309 104, 476 71, 035 822	94, 052 71, 943 126 21, 983 92, 139 63, 013 149	51.4 48.7 27.8 42.5 54.0	41.0 44.8 26.5 36.5 42.4	12, 506, 509 9, 506, 220 660, 745 2, 339, 544 10, 809, 981 7, 768, 261 306, 434	9, 163, 075 7, 383, 452 169, 842 1, 609, 781 8, 701, 231 6, 284, 524 124, 743	96	1, 34 7 9 10

### TABLE 3.—FARM EXPENDITURES FOR LABOR, FERTILIZER, AND FEED, 1929 AND 1924; DAYS OF HIRED OF OPERATOR; BY DIVISIONS

				аны улар чөлөөн төрөөр тоолоо на төрөөр	FARM	LABOR (EXCL	USIVE O	F HOUSEWORI	£)				COMMER	CIAL FE 19	RTILIZER () 29	NLY,
	-	Fa	rms report	ing					Cash expend	litures			Farms rei purcha		Tons pure	hased
	DIVISION OR STATE AND TENURE	Num	ber	Per ce ail fai		Days of hired 1929	labor, -	Amot	int	Averay farm ro in	sport-	A ver-		Don		Aver.
		1929	1924	1929	1924	Number	Aver- age per farm eport- ing	1929	1924	1929	1924	age wage per day, 1929	Number	Per cent of all farms <sup>r</sup>	Numbér	age per farm report- ing
	EAST SOUTH CEN- TRAL-Continued Alabama, total Owners	60, 365 29, 576 408	52, 892 24, 481 285	23.5 32.7 67.7	22. 3 26. 3 63. 6	5, 745, 780 3, 628, 123 470, 298	95 123 1,153	\$7, 072, 800 4, 500, 645 708, 599	\$5, 50 <b>3, 444</b> 3, 347, 542 379, 423	\$117 152 1,732	\$104 137 1,331	\$1,23 1,24 1,50	207, 677 78, 206 429	80.7 86.6 71.1	646, 707 265, 910	3. 11 3. 40
4 5 6 7 8	M hingers Tenanbs Mississippi, total Owners Managers Tenanbs WEST SOUTH CENTRAL	30, 381 47, 811 23, 686 644 23, 481	28, 126 29, 159 16, 330 344 12, 485	18.3 15.8	19.5 19.5 20.2 50.7 7.1	470, 295 1, 647, 359 4, 607, 383 2, 772, 640 694, 635 1, 140, 107	1, 133 54 96 117 1, 079 49	1, 865, 556 6, 552, 286 3, 793, 979 1, 136, 186 1, 622, 101	1, 776, 479 4, 585, 871 8, 064, 447 477, 637 993, 287	1,782 61 137 160 1,764 69	1, 331 03 156 188 1, 388 80	1. 13 1. 13 1. 42 1. 37 1. 64 1. 42	128, 982 151, 063 59, 411 498 91, 154	77, 5 48, 3 69, 0 49, 8 40, 4	9, 632 371, 165 307, 697 148, 614 7, 348 153, 735	22.45 2.88 2.04 2.47 14.76 1.69
9 10 11 12 13 14	Arkansas, total Owners Managers Tenants Louisiana, total Owners	66, 036 33, 951 373 31, 712 \$5, 919 18, 293	69, 223 29, 200 418 32, 605 27, 191 15, 122	20.8 22,2 34.4	29, 0 30, 6 67, 9 25, 9 20, 5 28, 9	6, 043, 458 3, 451, 016 423, 077 2, 169, 365 8, 883, 103 4, 335, 235 2, 505, 729	92 102 1, 134 68 247 237	9, 627, 117 5, 448, 672 754, 764 3, 423, 681 13, 081, 388 6, 601, 276	9, 677, 517 4, 933, 945 905, 883 3, 837, 689 11, 855, 948 6, 702, 186 2, 417, 110	146 160 2,023 108 <b>364</b> 361	156 169 2, 167 118 436 443	1, 59 1, 58 1, 78 1, 58 1, 58 1, 47 1, 52	73, 314 40, 069 199 33, 046 66, 333 30, 136	30. 3 45. 0 31. 4 21. 6 41. 1 56. 7	127, 293 70, 360 1, 924 55, 009 143, 657 73, 543	1.74 1.76 9.67 1.66 2.17 2.44
15 16 17 18 19 20	Managers. Tenants. Okiahoma, total. Owners. Managers. Tenants.	489 17, 137 90, 606 43, 107 454 47, 045	388 11, 681 94, 978 43, 385 303 51, 290	15.9 44.4 55.5 55.2 37.5	77.1 14.7 48.2 53.4 61.3 44.4	2, 042, 139 10, 094, 544 5, 435, 077 357, 945 4, 231, 522	5, 124 119 111 126 788 90	3, 423, 462 3, 056, 650 22, 945, 141 12, 050, 820 754, 162 9, 440, 159	2, 738, 652 26, 238, 224 13, 176, 962 475, 968 12, 585, 294	7, 001 178 246 280 1, 661 201	6, 230 234 278 304 1, 571 245	1.37 1.50 2.22 2.22 2.11 2.23	340 35, 857 4, 171 2, 252 37 1, 882	46.3 33.3 2.0 2.9 4.5 1.5	7, 122 62, 992 7, 895 4, 628 168 3, 099	20.95 1.76 1.89 2.06 4.54 1.65
21 22 23 24 25	Teras, total Owners. Managers. Terants MOUNTAIN Montana, total	202, 287 94, 981 1, 970 105, 336 27, 421	201, 898 85, 951 855 115, 082 30, 408	49.9 59.4 34.9	48.4 47.0 59.2 40.9 64.8	<b>33</b> , 447, 178 17, 307, 795 2, 464, 148 13, 675, 235 <b>5</b> , 753, 906	165 182 1, 251 130 210	65, 660, 912 34, 021, 982 4, 832, 547 26, 806, 383 16, 871, 983	71, 938, 334 34, 272, 707 1, 848, 019 35, 812, 608	325 358 2, 453 254 597	856 399 2, 161 311 498	1,96 1.97 1.96 1.96 1.96	75, 955 38, 702 216 37, 037	15. 3 20. 3 6. 5 12. 3	158, 010 83, 489 1, 680 67, 841	2.01 2.16 7.78 1.83
26 27 28 29	Owners Managers Tenants Idaho, total	21, 111 367 5, 943 25, 475	23, 201 282 6, 925 22, 811	59.7 71.4 51.1 61.1	63.9 76.8 67.5 56.2	4, 431, 435 440, 732 881, 741 4, 088, 012	210 1, 201 148 1 <b>60</b>	12, 612, 828 1, 236, 062 2, 522, 393 12, 706, 885	15, 135, 729 11, 505, 833 801, 897 2, 827, 999 9, 293, 688	597 3, 368 424 499	496 2, 844 408 407	2.85 2.80 2.86 3.11	157 112 5 40 1, 842	0.3 0.3 1.0 0.3 8.2	248 154 41 53 2,091	1, 58 1, 38 8, 20 1, 33 1, 56
30 31 32 33 34	Owners Managers Tenants Wyaming, total Owners	19, 008 404 6, 065 8, 481 6, 555	16, 740 301 5, 770 7, 012 5, 493	67.0 57.4 53.0 53.8	55.4 58.9 58.4 45.2 43.8	2, 962, 121 374, 517 751, 374 3, 199, 405 2, 418, 581	156 927 124 377 369	9, 155, 755 1, 177, 029 2, 373, 451 8, 805, 019 6, 464, 534	6, 605, 663 877, 455 1, 810, 570 5, 7 <b>33</b> , 408 4, 321, 044	482 2,913 391 1,015 986	395 2,915 314 818 787	3.09 3.14 3.16 2.69 2.67	1, 162 22 158 203 102	3.8 3.6 1.5 1.3 0.8	1, 557 149 385 358 206	1.34 6.77 2.44 1.76 2.02
35 36 37 38 39	Managers Tenants Colorado, total Owners Managers	222 1, 704 85,016 22,864 557	160 1, 359 33, 749 22, 313 432	48.4 58.4 58.5 66.5	83, 8 49, 0 58, 2 56, 5 73, 8	436, 010 7, 756, 160 4, 673, 624 522, 006	1, 553 256 222 204 937	1, 000, 183 1, 140, 302 21, 549, 844 12, 732, 509 1, 423, 483	776, 065 636, 299 16, 853, 544 9, 972, 392 1, 051, 184	4, 505 669 615 557 2, 556	4,850 468 499 447 2,433	2.90 2.62 2.78 2.72 2.73	8 93 749 558 18	2.7 2.6 1.2 1.5 2.1	16 136 1, 175 762 126	2.00 1.46 1.57 1.37
40 41 42 43 43 44	Tenants. New Mexico, total. Owners. Managers. Tenants.	11, 595 12, 483 9, 695 202 2, 586	11, 004 11, 823 9, 285 137 2, 401	39.7 39.2 60.5	61.4 37.3 35.7 53.5 44.2	3, 253, 949 2, 241, 956 419, 030	221 261 231 2,074 229	7, 393, 842 6, 556, 566 4, 458, 081 890, 853 1, 207, 632	5, 828, 968 4, 983, 522 3, 487, 423 444, 398 1, 001, 701	638 525 460 4,410 467	530 417 376 3, 244 417	2.89 2.01 1.99	178 720 570 17 133	2.3 2.3 5.1	287 2, 339 1, 699	1.66 3.25 2.98 13.41
45 46 47 48 49	Arizona, total Owners Managers Tenantz Utah, total	4, 570 382 1, 206	5, 820 4, 197 220 1, 395 14, 917	40.5 5 69.7 5 51.7	53.9 51.3 76.0 60.1	2, 067, 538 1, 004, 775 873, 630	641 452 2,630 724 130	10, 388, 881 5, 450, 630 2, 591, 894 2, 346, 297 6, 058, 647	7, 286, 868 4, 487, 472 1, 101, 553 1, 697, 843 5, 145, 466	1, 193 6, 785 1, 946	4, 896	2.58 2.69	512 369 87 56	3, 3 15, 9 2, 4	8, 704 2, 324 988 392	7,23 6,30 11,36 7,00
50 51 52 53 53	Owners Managers Tenants Nevada, total Owners	13, 311 158 1, 658	13, 158 62 1, 694 2, 321 2, 050	3 56.4 5 68.7 1 49.9 8 61.7	57.2 72.2 58.6 60.0	I, 610, 418 179, 320 184, 190 1, 270, 469	121 1, 135 111 598 489	4, 955, 935 537, 872 564, 840 8, 680, 671 2, 397, 381	4, 501, 708 158, 010 485, 748 3 968, 080	872 3,404 341	342	3.08 3.00 3.07 2,88	79 1 26 35	0.3	2 60 98	2.56 2.00 2.31 2.66
85 56 57	Managers Tenanis PACIFIC Washington, total-	184 257 40, 990	83 194 36, 154	8 81. 1 5 57. 8 5 57. 8	72.8 63.7 49.5	336, 373 111, 598 8, 453, 831	1, 828 434 906	954, 477 308, 813 29, 157, 841	3, 252, 359 543, 494 172, 227 91, 726, 903	711	6, 548 883	2.84 2.77	6	0.9 1.3	13 14	6.50 2.33 2.58
58 59 60 61 62	Owners Managers Tenants Oregon, total	921 7, 198 31, 583 25, 801	28, 524 756 6, 874 28, 117 22, 676	3 74.4 1 59.6 7 57.8 3 58.0	80.9 57.6 50.2 49.4	985, 480 1, 532, 874 6, 185, 130 4, 653, 874	181 1,070 213 196 180	20, 379, 296 3, 705, 859 5, 072, 086 18, 256, 718 13, 615, 757	14, 922, 152 2, 420, 080 4, 384, 671 14, 990, 831 11, 025, 191	620 4, 024 705 578 528	523 3, 201 638 533	3.43 3.76 3.31 2.95	7, 142 345 883 4, 499	12.4 27.9 7.3 8.2	15, 579 3, 088 2, 894 12, 467	2. 18 8. 95 8. 28 7 2. 77
63 64 65 66 67	Managers Tenants Oalifornia, total Owners Managers Tenants	5, 188 90, 492 69, 250 6, 245	461 4, 980 84, 836 67, 730 5, 210 11, 890	1 70.5 53.0 5 66.7 5 66.9 5 80.4	52.9 62.2 61.8	656, 954 874, 802 36, 655, 419 20, 499, 283	1, 106 109 405 296 1, 427	2, 054, 246 2, 586, 715 130, 158, 510 73, 509, 946 32, 010, 760	1, 552, 752 2, 412, 888 105, 846, 872 64, 254, 164 23, 465, 610	3, 458 499 1, 438 1, 002	3, 368 485 1, 942 949	3. 13 2. 96 3. 55	130 560 16,050 12,658	15.4 5.7 11.8	1, 228 3, 250 142, 610 92, 776	9,48 5,80 8,89 1,33

516

<sup>1</sup> Marl was not specified in the question covering expenditures in 1924.

<sup>2</sup> Based on all farms in each tenure class, see Chapter III.

LABOR, AND TONS OF COMMERCIAL FERTILIZER PURCHASED, 1929; WITH FARMS REPORTING; BY TENURE AND STATES-Continued

-EMDITO		n e m 1A.	LIME	.IZER, MANURE	, MARL, LIME,	AND GR					1	feed	-	****	
1	Farms report	ing			Amount			Fs	rms reporti	ng			Expenditures		
Nut	uber	Per ci all fa	ent of rms			A verag farm re in	eport-	Num	ber	Per ce all far		Amo	unt	A veraç farm r in	eport.
1929	1924	1929	1924	1929	1924	1929	1924	1929	1924	1929	1924	1929	1924	1929	1924
208, 058 78, 429 481 129, 198 151, 809 59, 541 500 91, 268	184, 079 74, 010 315 109, 754 104, 578 48, 773 325 55, 516	80. 8 86. 8 71. 5 77. 6 48. 4 69. 2 50. 1 40. 5	77. 5 79. 6 70. 3 76. 1 40. 7 60. 8 47. 9 31. 6	\$21, 829, 959 9, 070, 888 300, 422 12, 458, 649 11, 555, 849 5, 301, 994 5, 301, 994 5, 936, 865	\$14, 564, 214 6, 125, 047 172, 926 8, 266, 241 6, 261, 669 3, 348, 668 178, 340 2, 734, 661	\$105 116 697 96 76 89 634 65	\$79 83 549 75 60 69 549 49	88, 111 39, 043 258 48, 810 92, 814 38, 496 590 53, 728	86, 608 38, 881 215 47, 510 95, 897 41, 195 335 54, 367	<b>34. 2</b> 43. 2 42. 5 29. 3 <b>29. 7</b> 44. 7 59. 1 23. 8	<b>36.</b> 4 41. 8 48. 0 32. 9 <b>37.</b> 3 51. 0 49. 4 <b>30.</b> 9	\$8, 228, 525 4, 722, 324 444, 434 3, 061, 767 11, 496, 863 5, 191, 480 1, 147, 444 5, 157, 439	\$7, 062, 846 3, 844, 663 123, 430 3, 094, 767 10, 655, 748 5, 529, 452 460, 066 4, 066, 230	\$93 121 1, 723 63 194 135 1, 945 96	882 99 574 65 111 134 1,373 86
73, 686 40, 312 202 33, 172 66, 541 30, 249 343 35, 949 4, 440 2, 430 43 1, 967 76, 433 39, 013 39, 013 39, 113	56, 828 32, 235 137 24, 456 54, 412 27, 301 285 26, 766 2, 235 1, 336 883 65, 021 33, 203 100 31, 718	<b>\$0.4</b> 45.3 31.9 21.7 41.2 56.9 46.7 33.4 2.2 8.1 5.2 1.6 15.4 20.5 6.8 12.3	26.6 33.8 22.2 19.4 41.1 52.2 56.7 33.6 1.1 1.6 3.2 0.8 14.0 8.1 6.9 11.3	4, 606, 637 2, 529, 121 50, 663 1, 996, 953 5, 228, 680 2, 663, 114 307, 757 2, 257, 759 2, 257, 759 2, 252, 7, 759 2, 252, 7, 759 2, 252, 611 150, 235 6, 776 95, 450 5, 631, 303 3, 098, 456 73, 817 2, 459, 001	2, 995, 267 1, 730, 642 89, 773 1, 174, 642 4, 139, 766 2, 257, 664 438, 563 202, 864 124, 911 4, 905 72, 788 4, 123, 705 2, 294, 818 44, 670 1, 784, 217	63 63 399 60 79 88 88 897 63 57 62 158 49 74 79 79 330 66	53 54 65 83 1, 539 91 93 310 82 63 69 447 56	110, 676 53, 193 558 57, 125 59, 055 20, 326 83, 234 43, 073 22, 256 83, 234 43, 073 45, 834 101, 403 95, 802 94, 047	111, 809 57, 739 408 53, 662 66, 910 32, 551 384 33, 975 106, 105 45, 755 60, 092 201, 886 93, 355 663 107, 868	45. 7 59. 8 56. 5 37. 4 36. 6 49. 5 50. 7 30. 7 30. 7 30. 7 30. 6 51. 9 39. 0 58. 6 50. 3 46. 9 31. 2	50. 4 60. 5 66. 2 42. 6 50. 5 62. 1 76. 3 42. 7 53. 8 56. 3 52. 2 52. 0 43. 4 51. 0 45. 9 38. 4	12, 406, 536 6, 644, 228 383, 265 5, 309, 043 7, 871, 550 4, 297, 278 705, 233 2, 809, 833 17, 138, 034 9, 672, 289 549, 477 6, 616, 328 37, 804, 965 22, 178, 028 2, 864, 283 12, 761, 754	12, 378, 669 6, 540, 239 448, 456 5, 389, 944 10, 190, 985 5, 782, 414 794, 110 3, 344, 411 15, 617, 722 7, 966, 463 209, 345 7, 381, 909 34, 661, 163 18, 319, 742 1, 022, 806 15, 318, 615	163 1, 891 89 184 220 1, 989 135 198 231 1, 844	111 118 1,099 100 151 178 2,068 104 174 1,044 123 172 196 1,543 142
303         238           11         54           1, 694         1, 468           1, 463         201           100         108           1, 119         266           2, 201         339           344         6822           200         142           524         380           564         564	15 205 1,127 970 145 989 145 989 145 989 145 145 989 145 145 145 145 145 145 145 145 145 145	3.1         1.6         2.7         2.8         6.0         2.2         3.7         3.8         16.1         2.4         2.4         2.4         2.4         2.4         2.4         2.4         2.4         2.5         2.6         3.1         2.2         3.7         3.4         16.1         2.4         2.5         3.6         3.7 <td< td=""><td>4.7 2.7 2.8 2.4 3.4 2.1 2.6 2.7 2.2 2.3 0.6 0.6</td><td>59,778 20,485 48,846 38,964 1,115 8,767 5,530 4,013</td><td>6, 001 4, 231 933 837 59, 433 42, 032 4, 625 12, 866 7, 044 5, 866 1, 540 100 197, 118 92, 318 8, 638 26, 162 88, 101 69, 973 3, 344 14, 788 45, 706 31, 816 2, 966 10, 921 42, 394 36, 707 31, 816 2, 966 10, 921 42, 394 36, 707 32, 344 45, 706 31, 816 2, 966 10, 921 31, 816 2, 966 10, 921 31, 816 2, 966 36, 707 34, 846 35, 707 36, 707 36, 707 31, 816 31, 81</td><td>107 117 102 706 103 336 252 679 365 103 366 103 366 103 103 103 103 103 103 103 103</td><td>122 81 106 100</td><td>20, 692 15, 604 247 4, 751 17, 122 0, 611 17, 122 4, 699 7, 995 6, 295 1, 532 31, 212 2, 616 1, 532 31, 212 9, 175 12, 476 9, 816 9, 816 9, 816 9, 816 9, 816 2, 474 4, 685 5, 460 2, 63 1, 162 13, 929 12, 526 100 1, 303 2, 157 1, 777 127 253</td><td>16, 406 12, 214 134 4, 058 19, 360 14, 523 4, 654 7, 050 5, 656 117 1, 277 29, 598 20, 382 20, 38</td><td>44. 3 \$9. 7 39. 7 55. 7 39. 1 48. 6 48. 8 48. 0 49. 8 51. 3 53. 1 43. 5 39. 2 62. 7 64. 2 55. 9 64. 2 65. 9 64. 2 65. 9 65. 9 64. 2 65. 9 65. 9 65</td><td>49,8 48,4 48,0 56,6 50,3 56,5 57,0 56,7 48,5 44,0 48,3 40,0 58,1 55,7 57,0</td><td>6, 871, 984 5, 109, 372 396, 665 1, 275, 947 7, 040, 944 5, 128, 987 7, 040, 944 5, 128, 985 9, 057, 017 9, 981, 985 9, 057, 017 9, 985 9, 057, 017 9, 985 2, 774, 961 2, 855, 266 2, 826, 581 4, 987, 875 4, 880, 256 1, 75, 875 1, 175, 405 2, 265, 256 1, 265, 256 1, 265, 256 1, 265, 256 1, 255, 256 1, 256, 256 1, 256</td><td>10, 370, 59; 6, 672, 400, 618, 88; 3, 079, 30 5, 346, 64 2, 473, 36 270, 02 603, 25 2, 412, 77 1, 675, 00 1, 192, 64 5, 12 5, 502, 09 2, 2, 285, 80 2, 42, 17, 11 1, 346, 14 3, 1, 689, 37 4, 166, 50</td><td><math display="block">\begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td><td>345 218 198 1,802 221 393 356 1,302 2413 921 226 1,081 145 145 145 145 32,465</td></td<>	4.7 2.7 2.8 2.4 3.4 2.1 2.6 2.7 2.2 2.3 0.6 0.6	59,778 20,485 48,846 38,964 1,115 8,767 5,530 4,013	6, 001 4, 231 933 837 59, 433 42, 032 4, 625 12, 866 7, 044 5, 866 1, 540 100 197, 118 92, 318 8, 638 26, 162 88, 101 69, 973 3, 344 14, 788 45, 706 31, 816 2, 966 10, 921 42, 394 36, 707 31, 816 2, 966 10, 921 42, 394 36, 707 32, 344 45, 706 31, 816 2, 966 10, 921 31, 816 2, 966 10, 921 31, 816 2, 966 36, 707 34, 846 35, 707 36, 707 36, 707 31, 816 31, 81	107 117 102 706 103 336 252 679 365 103 366 103 366 103 103 103 103 103 103 103 103	122 81 106 100	20, 692 15, 604 247 4, 751 17, 122 0, 611 17, 122 4, 699 7, 995 6, 295 1, 532 31, 212 2, 616 1, 532 31, 212 9, 175 12, 476 9, 816 9, 816 9, 816 9, 816 9, 816 2, 474 4, 685 5, 460 2, 63 1, 162 13, 929 12, 526 100 1, 303 2, 157 1, 777 127 253	16, 406 12, 214 134 4, 058 19, 360 14, 523 4, 654 7, 050 5, 656 117 1, 277 29, 598 20, 382 20, 38	44. 3 \$9. 7 39. 7 55. 7 39. 1 48. 6 48. 8 48. 0 49. 8 51. 3 53. 1 43. 5 39. 2 62. 7 64. 2 55. 9 64. 2 65. 9 64. 2 65. 9 65. 9 64. 2 65. 9 65. 9 65	49,8 48,4 48,0 56,6 50,3 56,5 57,0 56,7 48,5 44,0 48,3 40,0 58,1 55,7 57,0	6, 871, 984 5, 109, 372 396, 665 1, 275, 947 7, 040, 944 5, 128, 987 7, 040, 944 5, 128, 985 9, 057, 017 9, 981, 985 9, 057, 017 9, 985 9, 057, 017 9, 985 2, 774, 961 2, 855, 266 2, 826, 581 4, 987, 875 4, 880, 256 1, 75, 875 1, 175, 405 2, 265, 256 1, 265, 256 1, 265, 256 1, 265, 256 1, 255, 256 1, 256, 256 1, 256	10, 370, 59; 6, 672, 400, 618, 88; 3, 079, 30 5, 346, 64 2, 473, 36 270, 02 603, 25 2, 412, 77 1, 675, 00 1, 192, 64 5, 12 5, 502, 09 2, 2, 285, 80 2, 42, 17, 11 1, 346, 14 3, 1, 689, 37 4, 166, 50	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	345 218 198 1,802 221 393 356 1,302 2413 921 226 1,081 145 145 145 145 32,465
9, 61( 8, 21) 38( 1, 01) 8, 16; 6, 95; 15; 1, 05; 23, 85; 19, 20; 2, 28 2, 38;	5         4,08           0         12           5         68           5         4,89           7         10           1         38           5         16,54           2         13,95           8         1,35	2       14.1         0       30.2         9       8.4         1       15.4         6       18.4         10       10.4         10       18.4         11       15.4         12       10.4         13       10.4         14       15.4         15       18.4         16       18.4         17       18.4         18       10.4         18       10.4         18       10.4         18       10.4         18       10.4         18       10.4         18       10.4         19       18.4         20       19.4	3         6.8           7         12.8           5.8         5.8           3         10.4           3         10.7           3         17.2           7         9.4           8         12.1           8         12.1           8         12.1           9         4           20         20.1	829,016 193,120 172,243 669,810 4458,087 66,131 14,141,521 14,141,521 79,795,655 23,170,177	43,60 148,33 458,49 323,92 34,67 99,90 8,871,46 6,197,70 1,653,99	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	84 363 215 78 66 327 113 506 444 5 1,223	3,880	3,56	75.1           56.6           62.1           771.7           52.6           62.7           56.6           63.2           62.1           56.2           62.3           56.4           62.4           56.5           62.7           56.6           62.7           57.7           58.6           62.7           59.8           62.4           59.8           50.6           62.4           59.8           62.4           59.8           59.8           50.8	71.9 56.8 60.8 63.5 7 64.0 56.0 7 60.0 58.9 7 59.2	25, 297, 33 21, 041, 50 969, 63 3, 236, 09 13, 166, 80 10, 801, 33 294, 45 2, 010, 97 88, 117, 63 47, 923, 80 5, 420, 18 14, 767, 55	14, 120, 30         510, 21           0         2, 530, 54           10         156, 66           4         8, 109, 64           2         315, 06           4         1, 731, 85           3         53, 016, 11           3         38, 000, 84           3         38, 000, 83	8 485 8 1, 38 1 43 4 34 4 34 12 66 8 52 14 81 14 72 1 1, 39	7 32: 3 96: 3 844 2 28: 0 27: 5 91: 5 91: 6 30: 0 66: 7 58 9 1,08

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# TABLE 4.—ELECTRIC LIGHT AND POWER,<sup>1</sup> BY TENURE OF FARM OPERATOR, BY DIVISIONS AND STATES CENSUS OF 1930

provide the second of a second s					an a	(	ENSU						1					
		-		TAL	1		-	07	VNERS AP	ID MAR	NAGERS			· .	TEN	ANTS .		
DIVISION AND	Farms ing dw lighte electr (Apr. 1	ellings d by leity , 1930)	Farms ing el light and purchas	ectric 1 powe ed, 1929	Expendi for elec light s power, <sup>1</sup>	trie	Farms ing dw lighte electr (Apr. 1	ellings d by leity , 1930)	ing el light power	ectric and	for elec	tric nd		ricity	Farms ing el light power chased	ectric and pur-	Expendi for elec light a power, <sup>1</sup>	trie nd
BTATE	Num- ber	Per cont of farms reporting dwell- ings	Num- tær	Per cent of all farms 1	Amount	Average per farm reporting	Num- ber	Per cent of farms reporting dwell- tures	Num- ber	Per cent of all owners and man-	Amount	Average per farm reporting	Num- ber	Per cent of farms reporting dwell- ings <sup>1</sup>	Num- ber	Per cent of all tenants '	Amount	Average per farm reporting
United States GEOGRAPHIC DIVISIONS:	841, 310	14. 3	571,007	9.1	846, 483, 88		712,780	20. B		18.6	-	-	128, 580	5.4	79, 618	B. 0	86, 649, 898	
New England	53, 655	45.0	45. 522	36.4	2, 985, 478	66	51.045	45.4	48, 365	87.1	2, 836, 348	65	0.010	87.9	0.177			
Middle Atlantic	114, 098	1	87, 533	24. 5	5, 735, 411	66	102, 049	34.7	78, 437	25.7		66	2, 610 12, 049	25.3	2, 157 9, 096	27.4	149, 130 522, 878	69
East North Central. West North Central	202, 656 146, 969		129,047	13.4	7, 371, 738	57	166, 984	24. 5		15.3		58	35, 672	14.4	21, 486	8,1	1, 104, 040	57 51
South Atlantic.	64, 173		37, 416	6. 5 3. 5	4, 568, 823	63 60	115, 707 55, 752	17.8	1	8.5		64	81, 262	7.6	15, 350	3.5	918, 799	60
East South Central.	81, 952	- T	18, 776	1.8	1, 030, 976	55	27, 214	6.0	1 1 1 1 1 1 1	3, 5		62 57	8, 421 4, 738	1.9	4, 423 2, 489	0.9	194, 961	44
West South Central Mountain	40, 240 49, 173	1 · · ·	18, 534	1.7	1, 679, 907	91	32, 889	8.3	15. 468	8.7	1	91	7,851	1.2	3,071	0.4	100, 512 277, 268	40
Pacific	49, 173 138, 394		89, 160 122, 926	16.2	2, 789, 161 18, 081, 266	71	41,828	25.0	1	18.5		72	7, 845	14.1	5, 479	9.3	368, 314	67
NEW ENGLAND:				21.0	10, 001, 200	147	119, 262	59.4	106, 859	49.6	15 067, 770	141	19, 132	46.8	16,067	84.7	3, 013, 496	188
Maine	12,920		10,938	28.0	498, 169	46	12, 520	85. 1	10, 602	28.5	482, 831	46	400	27.1	836	19.1	15, 338	
New Hampshire Vermont	6, 160 7, 565	43.5	5,014	33.6	306, 648	61	5, 921	44.0	4, 840	34. 3	297, 291	61	239	34.0	174	21, 9	9, 357	46 54
Massachusetts	16,037	66.8	13, 821	25.7	331,008 1,051,305	52 76	7, 052 15, 264	82.1	5,988	26.6		52	518	22, 3	415	17.2	20, 259	- 49
Rhode Island	3,910	61.1	1,671	50.3	153, 011	92	18, 204	62.2	18, 177 1, 504	54.5 51.7		76 90	778	67.6 52.0	644	44.7	44, 083	68
Connecticut	9,063	55, 0	7, 675	44.6	645, 337	84	8, 560	55.0	7, 254	45.0		83	503	55, 2	167 421	40, 2 39, 4	18, 063 42, 030	108 100
New York.	55, 019	85.9	43, 350	27.1	2, 769, 649		40.040									00.1	12,000	100
New Jersey	13, 441	56.1	10,968	43.2	920, 335	64 84	49, 848 12, 112	37. 3 59. 1	89, 309 9, 971	28.3	3 - 7 7	64	5,171	26.7	4,041	19.1	234, 608	58
Pennsylvania	45, 638	27.7	83, 215		2, 045, 427	62	40, 089	28,6	29, 157	20,1		84 63	1, 329 5, 549	88.5 22.8	997 4,058	25.3	77, 882	78
EAST NORTH CENTRAL: Obio	56,740	27.0	-								190009000		0,010	A	2,005	14.8	210, 388	52
Indiana	30, 335	17.6	37, 695	17.2 10.2	1, 920, 282 908, 296	51 49	46, 956	30.1	81, 429	19,4		53	9,784	18.2	6, 266	10.9	280, 226	45
Illinois	34, 231	16.6	18, 317	8.5	1, 191, 792	65	24, 480	20.0	15,050	11.9	750, 182 898, 484	50	5,855	11.6	8, 519	6.4	158, 114	45
Michigan Wisconsin	34, 785	21.3	24, 233	14.3	1, 251, 834	52	30, 737	22.1	21, 618	15.1		67 53	9,459 4,048	10.7	4, 971 2, 615	5.4 10.0	293, 308	59
WEST NORTH CENTRAL:	46, 565	26.3	30, 233	16, 6	2, 089, 534	69	40, 039	27.5	26, 118	17.6		70	6, 526	20.8	4, 115	12.4	110, 549 261, 843	42 64
Minnesota	28, 342	18.0	12, 413	6.7	855, 425	69	19, 261	15.4	10.000									
Lowa	46, 042	22, 2	25, 149	11.7	1, 626, 563	65	83, 724	30.5	10, 290	8.1 16.1	718, 204	70 66	4,081 12,318	7.4	2, 123	3.7	137, 221	65
Missouri North Dakota	20, 223 6, 192	8.3	12,486	4.9	602, 387	48	16, 891	10.4	10, 597	6.4	524, 782	50	3, 332	12.7 4.0	6, 861 1, 889	6.8 2.1	425, 575 77, 605	62 41
South Dakota	9,070	11.6	1, 721	2.2	149, 581 182, 145	87 72	6, 180	10.7	1, 405	2,8	127, 183	-> <b>90</b>	1,012	4.1	316	1,2	22, 448	71
Nebraska	21, 380	17.4	7, 485	5.8	558, 545	75	7, 154	16.1 25.1	1, 917 5, 789	4.2	144, 966 441, 458	76	1,916	5.6	617	1.7	87, 179	60
Kansas South Atlantic:	20, 720	13. 3	10, 305	6.2	<b>594, 17</b> 7	58	16, 867	18.3	8, 457	8.8	441, 458 492, 498	76 58	4, 750 3, 853	8.4 6.0	1, 696 1, 848	2.8	117,092	69
Delaware	1, 561	17.0	1.027	10.6	86 <b>6</b> 4 F	-						. ~	0,000	0.0	1,040	2,6	101, 679	55
Maryland	9, 145	22.1	6, 226	14.4	89, 315 445, 723	87 72	1, 371 8, 124	21.9 26.3	901	14.0	79, 715	88	190	6.5	126	8.8	9, 600	78
Dist. of Celumbia	67	69, 1	54	51, 9	3, 049	56	56	76.7	5, 560	17.5	412, 164 2, 859	74 61	1,021	9.7	666	5.8	83, 559	50
Virginia West Virginia	18,009 5,330	8.0	7,780	4.5	469, 524	61	11, 781	9.8	7,036	5.7	431, 710	61	11 1, 278	45.8 3.0	7 694	29, 2 1, 4	190	27 54
North Carolina	15,006	5.8	2, 844 8, 774	3.4 3.1	154, 305 403, 120	54	4,854	7.5	2, 598	3.9	143, 321	55	476	3.4	246	1.6	87, 814 10, 984	45
South Carolina	6, 067	4.1	8, 039	1.9	145, 105	46 48	12, 896 4, 818	9.3 9.0	7,640	5.4	863, 628	48	2, 180	1.8	1, 134	0,8	39, 492	35
Georgia Florida	7, 499	8.2	8, 591	1.4	206, 932	58	6, 010	7.7	2, 920	4.4	127, 158 188, 236	52 62	1, 249 1, 489	1.3	613	0.6	17,947	29
EAST SOUTH CENTRAL:	6, 489	13.7	4, 181	7.0	824, 052	78	5, 962	17.1	8, 827	9,1	802, 373	62 79	1,489	1.0	633 304	0.4 1.8	23, 696 21, 679	37 71
Kentucky	10, 691	4.8	5. 863	2.4	323, 152	55	9, 338	6. 2	أيعد						004	4,0	21,018	11
Tennessee	10, 010	4.4	6, 720	2.7	836, 965	80 80	9, 338 8, 699	0.2 6.8	5, 222 5, 934	3.8 4.5	295, 200	57	1, 353	1.9	641	0.7	27, 952	44
Alabama Mississippi	6, 469	27	3, 839	1,5	196, 455	51	5, 088	5.8	3, 057	3,4	307, 885 168, 929	52 55	1, 311 1, 371	1.8	786	0.7	29,080	37
WEST SOUTH CENTRAL:	4, 1¥%	1.7	2, 354	0.8	174, 404	74	4, 089	4.9	2, 074	2,4	158, 450	76	703	0.9	782 280	0.5	27, 526 15, 954	85 57
Arkansas	ā, 121	2.3	2, 689	1.1	309, 610	115	4, 146	4.8	9 100		000.000						*0,007	
Louisiana	4, 174	2.8	1, 949	1.2	240, 926	124	3, 472	1.6	2, 198 1. 688	2.5 8.1	233, 199 206, 818	106 123	975	0.7	491	0.8	76, 411	156
Oklahoma Teras	8, 091 22, 854	4.8 5.2	8.942 0 664	1,9	267, 710	68	6, 514	8, 7	8, 188	4.1	225, 930	128	702 1, 577	0.7 1.4	261 759	0.2 0.6	84, 113	131
MOUNTAIN:	y 06/3	***	9, 954	2.0	861, 661	87	18, 757	10.2	8, 394	4.8	736, 697	88	4, 097	1,4	1, 560	0.6	41, 780 124, 964	55 80
Montana	3, 547	7.9	1, 983	4.2	158 207	80	8,063	8.9	1, 689	4.7	140 700	. شده		ą.		1		
Idaho	12,809	83.1	10, 731	25,7	070, 828	63	10, 349	85.4	8. 825	28,4	143, 728 572, 891	85 65	484 2,460	4.6	294	2,5	14, 479	49
Colorado	9, 393	7.5	454 6, 548	2.8 <sub>3</sub> 10.9	46, 816 422, 961	103	1,005	8,4	895	8,2	48, 451	110	140	4,3	1,906 59	18,1	97, 987 8, 365	51 57
New Mexico	1, 691	6.1	1, 102	8.5	117, 337	65 106	7, 483 1, 487	20.4	5, 269	13.4	843, 896	65	1,910	10.4	1, 279	6.2	79, 565	62
Arizona	3, 671	31.1	8, 070	21.7	772, 854	252	8, 148	82.0	966 2, 649	8.9 22,4	103, 214 659, 324	107	224	4.0	186	2, 1	14. 123	104
Utah Nevada	15, 778 L, 139	70.4	14, 462	53.2	543, 840	28	14, 815	72, 1	18, 167	55, 2	503, 268	249 88	523 1, 463	26.5 57.4	421 1. 295	18,1	113, 530	270
PACEFEC:	-4 ×010		810	23, 5	56, 318	70	998	85, 2	721	24.1	<b>51,</b> 575	72	141	86.2	1. 295	39.0 20.0	40, 572 4, 743	81 53
Washington	34, 056	50.4	29, 070	41.0	1, 845, 763	63	80, 114	53.4	26, 052	44.8	1 000 000	. 1	·			~~~	4 1 20	
Oregon. California	18, 397 85, 941	35.0		27.2	796, 462	53	15, 925	36. 6	13, 189	44.3 29,1	1, 667, 268 703, 199	64 53	3, 942 2, 472	85,4	8,018	25.0	178, 495	<i>5</i> 9
1 Paid to power compa	nies.	70.8	75, 895 1	08.1 1	15, 439, 041	196	73, 223	72.7					12, 718	27.3 61.4	1,802	18.4	93, 268 2, 741, 738	52 244
he tenure class, see Chap	ter III.	4 Ba	sed on all	1 farms	in the term	oso rep	orting op	erator	's dwelli	ng ligi	12,697,303   hted by elec	etricity	I B				ng dwellin	

TABLE 5.—FARM EXPENDITURES FOR IMPLEMENTS AND MACHINERY, 1929, WITH FARMS REPORTING; AND FARMS REPORTING VALUE OF IMPLEMENTS AND MACHINERY, APRIL 1, 1930; BY TENURE OF OPERATOR; BY DIVISIONS AND STATES

			TOTAL	••••			OWNERS		NAGERS			T Farms r	ENANT	8	
Ì		Farms re ing purch	port-	Expenditure	s for		Farms r ing pure	hases	Expenditure	s for	¥	ing pure	hases	Expenditure	es for
	Farms reporting	of impier	nents	implement	tsand	Farms reporting	of imple	ments ]	implemen machinery	sand	Farms reporting	of implement	nents shin	implements machinery,	
	value of	and mac ery, 19		machinery	, 1929	value of	and ma ery, 1	929	macminet y	1000	value of	ery, 1			
DIVISION AND STATE	imple- ments			1	Aver-	imple- ments		Per		Aver-	imple- ments		Per		A ver- age
	and ma-		Per		age per	and ma-		of all		age per	and ma-		cent		per
	chinery (April 1,	Number	cent of all	Amount	farm	(April 1,	Number	owners	Amount	farm	(April 1,	Number	of all ten-	Amount	farm re-
	1930)		farms 1		re- port-	1930)		and man-		re- port-	1930)		ants ?		port-
					ing			agers 1		ing					ing
United States	5, 529, 424	1, 750, 588	27.8	8692, 548, 103	\$396	8, 274. 805	1, 141, 244	\$1.5	\$490, 426, 309	\$430	2, 254, 619	609, 844	22, 9	8202, 121, 794	\$332
GEOGRAPHIC DIVISIONS:												A /16	30.6	1, 007, 262	418
New England	109, 414	40, 420	32.4	17, 607, 647	438	103,013	38,008	32.5	16, 600, 385 48, 468, 040	437 416	6, 401 45, <b>34</b> 1	2, 412 21, 064	40.2	8, 525, 875	405
Middle Atlantic	320, 213	137, 646	38.5	56, 993, 915	414	274,872	116, 582 234, 796	38, 2 33, 4	46, 400, 040 87, 524, 270	373	240, 447	95, 686	36, 2	28, 599, 359	382
East North Central	876, 916	830, 482	34. 2 43. 2	124, 123, 629 246, 396, 561	376 512	636, 469 628, 764	287, 316	43.0	152, 216, 022	530	415, 513	193, 784	43.6	94, 180, 539	486
West North Central South Atlantic	1, 044, 277 904, 322	481, 100 222, 033	93. 2 21. 0	37, 512, 589	169	483,058	125, 828	22.9	30, 494, 538	242	421, 264	96, 205	18.9	7, 018, 051	73
East South Central	878, 324	158, 151	14.9	24, 724, 078	156	421, 404	92, 991	19.9	19, 247, 282	207	456, 920	65, 160	11.0	5, 476, 798	- 84
West South Central	963, 184	215, 330	19.5	74, 715, 178	347	384, 568	115, 039	27.7	48, 715, 891	423	578, 616	100, 291	14.6	25, 999, 287	259
Mountain	213, 779	88, 578	36.7	56, 907, 903	642	161, 799	67, 929	37.2	44, 298, 577	652	51, 980	20, 649	35.1	12, 609, 326	611
Pacific	218, 995	76, 848	29,4	53, 566, 603	697	180, 858	62, 755	29.1	42, 861, 304	683	38, 137	14,093	30.5	10, 705, 299	760
NEW ENGLAND:				1							1.000	498	28, 4	234, 813	472
Maine	34, 138	12, 140	31.1	5, 384, 029	448	32, 816	11, 642	31, 3	5, 149, 216	442	1, 322	495 214	26.9	71,988	836
New Hampshire		4, 209	28. 2	1, 699, 847	404	12,404	8,995	28,3	1, 627, 359	407	2, 187	665	27.6	226, 406	340
Vermont	22, 739	8, 413	83.8	3, 083, 924	367	20,602	7,748	34.5	2,857,518 8,927,367	473	1, 123	480	33.8	207, 385	432
Massachusetts		8, 775	34.3	4, 134, 752	471	20, 911 2, 439	8, 295 967	34.8	496, 958	514	344	172	41.4	84, 387	491
Rhode Island		1, 139	34.8	581, 345	510 474	2, 2, 39	5, 361	33.2	2, 541, 967	474	838	383	35, 9	182, 283	476
Connecticut	14, 679	5, 744	33.4	2, 724, 250	1 3/3	10001	0,001	1		1			1		1
MIDDLE ATLANTIC: New York	145,088	65, 326	40.9	28, 040, 530	429	125, 414	56, 534	40.8	24, 428, 316	432	18, 649	8, 792	41.6	3, 612, 214	411
New Jersey		9, 880	38.9	5, 409, 483	548	18, 694	8, 216	38, 3	4, 477, 511	545	8, 337	1, 664	42.1	931,972	560
Pennsylvania		62, 440	36, 2	23, 548, 902	877	129, 764	51, 832	35.7	19, 562, 213	377	23, 355	10, 608	38.7	3, 981, 689	375
EAST NORTH CENTRAL:	100,110	0-,	1	1		8		1	}		}				
Ohio	193, 178	57, 431	26.2	20, 616, 620	359	141,962	40,680	25,2	15, 020, 819	369	51, 211	16, 751	29.1	5, 595, 801	834
Indiana		45, 752	25. 2	16, 579, 833	362	110, 980	30, 049		11, 018, 945		48, 648	15,703		5, 560, 888	.1
Illinois		77, 321	36.0	34, 332, 341	444	111, 252			17, 584, 651	446	86, 784	38, 037 9, 262		1 · · · · ·	4
Michigan	155,069	60, 932	36.0	20, 847, 593		181,672	1		17, 790, 983		23, 397	15, 933		and the second second	18 A.
Wisconsin	- 171,010	89,046	49.0	31, 747, 242	357	140, 603	78, 118	49,2	26, 158, 872	000	00, 201	10,000	1	10 C	
WEST NORTH CENTRAL:			1		1	100 101	59, 153	46.4	28, 714, 607	401	54, 182	28, 519	49.5	11, 400, 606	400
Minnesota	1 .	87, 672		85, 115, 213		120, 591	1	1	26, 875, 622			58, 178		24, 691, 469	464
Iowa			1 .	51, 567, 092		н .			12, 615, 853			18, 020	20.2	4, 784, 810	
Missouri			1	26, 745, 021					18, 967, 706	1.		13, 558			
North Dakota			1	1		N			14, 875, 399	684		17, 789		1 1 1 2 2	
South Dakota Nebraska						-11			20, 993, 601	593				14 14 2 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1	
Kansas	-					8		47.0	84, 173, 22	760	66, 222	32, 305	45.9	20, 989, 795	648
SOUTH ATLANTIC:		/			1	1		1					84.0	378,955	3 339
Delaware	8,874	3,423	35. 3	1, 854, 268	396				1		1 .	4			
Maryland			81.0				3 .			· · · ·					
District of Columbia.	- 9	2 22		1 <sup>*</sup>											
Virginia	- 145, 69		4					· 1 · · ·	1	· · · ·			- I -		
West Virginia			1									1		7 1, 270, 54	4 63
North Carolina						11							8 18.1	5 839, 03	
South Carolina				I diama inter	-										
Georgia								· .			2 18,001	1 2, 53	0 15.1	1 342, 64	8 188
Floride East South Central:	- 44,75	0 10,000	1 10.0		-   <i>"</i>	1		1	1					1 1, 165, 63	5 187
Kentucky	195, 45	3 26, 550	0 10.1	6, 155, 40	4 23	2    184, 96	7 20, 20								
Tennessee					5 18										
Alabama				4 5, 568, 75	7 9								· 1 .	1	
Mississippi				8 6, 425, 31	2 18	2 81,73	1 20, 0	0 23.	0 4, 871, 62	2 24	3 169, 27	10,00			T (0. 👘
WEST SOUTH CENTRAL:			)		1			7 25.	6 4, 272, 24	5 18	7 119,75	4 17, 17	1 n.:	2 1, 682, 77	2 98
Arkansas														- 1 - C - C - C	
Louisiana													- I	1 · · · · · ·	
Oklahoma						- II						1 1		9 14, 061, 48	31
Texas	436, 11	15 97,95	6 19.	8 39, 937, 08	14   90	~ I 10,01		1	1		1				
MOUNTAIN:		00 00 01	2 43.	8 17, 442, 0	3 83	8 33,80	16,8	19 45.	5 14, 018, 71	6 85					
Montana						- 19			8 7, 531, 5	56 56					
Idaho Wyoming						- 3 <b>1</b>		74   44.							
Colorado							72 14,9							· · · · · · · · · · · · · · · · · · ·	
New Mexico				-		9 21, 1			4						
Arizona			··· }	-	95 7	14 9,0	1 .						00   25. 35   26.		+
Utah											14 2,75 38 36		35 20. 35 30.	1	
Nevada					64 66	31 2,7	23 1,1	99 40.	.0 788, 4	wz   6	55 36	*			
PAOPIC:			1						0 9,965,9	52 R	34 10, 30	4.1	70 34.	5 2, 876, 1	64 6
Washington				1		5 50,0	F				52 5,40				*
Oregon	48, 7					79 40,2 00 90,4					00 19,4		12 28		
California	109, 8	90 38,5	12   28.	4 30, 817, 9	anti 84	00    90,4	1,10 1 01,1	rnnr : 440)							

[Total number of farms and the actual value of the inventory of farm implements and machinery are shown in Chapter I]

<sup>1</sup> Based on all farms and not on those reporting value of implements and machinery. <sup>2</sup> Based on all farms in the tenure class and not on those reporting value of implements and machinery, see Chapter III.

### TABLE 6.—FARM EXPENDITURES FOR LABOR (CASH), 1899 TO 1929; WITH FARMS REPORTING, 1909 TO 1929; BY DIVISIONS AND STATES

		FARB	as reporti	NG 1		r na ji 1990 - San Andreas		AMOUNT EXPEN	IDED IN CASH		PEND	GE CAN	S PER
DIVISION AND STATE		Number		Per cei	at of all	farms	1929	1919	1909	1899 *	1929	1919	1909
	1929	1919	1909	1929	1919	1909							
United States	2, 631, 601	2, 588, 999	2, 922, 279	41. 8	44.8	45.9	8955, 420, 313	\$1, 098, 712, 517	\$521, 729, 941	\$357, 391, 930	\$363	\$380	\$17
LEOGRAPHIC DIVISIONS:													1
New England	73, 836	90, 031	124, 619	59.1	57.5	66.0	49, 839, 145	43, 686, 874	27, 603, 492	20, 727, 980	675	485	2
Middle Atlantic	197, 968	260, 960	308, 050	55.4	61.4	65.8	94, 687, 576	95, 198, 358	59, 913, 169	50, 469, 890	478	365	1
East North Central	448, 362	582, 622	BN2, 364	46.4	53.7	52.7	132, 476, 146	182, 314, 444	91, 591, 170	67, 556, 520	295 296	313 392	
West North Central	603, 904	672, 998	566, 347	54.3	61.4	51.0	178, 678, 087	263, 703, 339 88, 225, 678	105, 023, 453 55, 413, 285	75, 764, 460 37, 086, 040	250	392 234	1
South Atlantic	367, 185	876, 580	469, 370	34.7	32. 5 23. 6	42, 2 31, 6	91, 879, 757 33, 774, 889	37, 855, 340	28, 662, 434	19, 575, 416	135	153	1
East South Central West South Central	250, 148 394, 848	247, 906 389, 994	329, 583 336, 094	23.5 35.8	23. 0 39. 2	35.6	110, 614, 558	147, 416, 506	52, 219, 927	29, 871, 225	280	378	1
Mountain	132, 285	125, 480	85, 831	54.8	51.4	46.8	85, 897, 086	84, 892, 214	37, 384, 652	20, 372, 255	649	677	4
Pacific	163, 065	142, 428	110, 081	62. 3	60.8	58.0	177, 573, 069	155, 419, 764	63, 918, 359	35, 968, 144	1,089	1, 091	5
NEW ENGLAND;			i sa Ngang Propinsi na										
Maine	22, 795	26, 735	37, 190	68.4	55.4	62.0	9, 042, 533	7, 506, 437	4, 485, 911	2, 667, 260	397	281	1
New Hampshire	8, 849	11, 365	17, 385	59.4	55.4	64.3	3, 980, 361	3, 665, 259	2, 690, 006	2, 304, 520	450	323	
Vermont	15, 364	18, 171	21, 810	61.7	62.5	66.7	5, 495, 428	5, 788, 588	3, 579, 799	3, 133, 140	358	319	1
Massachusetts	15, 247	18, 322	26, 758	59.6	57.3	72.5	17, 288, 318	13, 929, 305	9,906,209	7, 487, 280	1,134	760	8
Rhode Island	1,885	2, 296	3, 521	56.7	56.2	66.5	2, 276, 788	1,730,402	1, 429, 388	1,032,360	1,208 1,212	754 842	4
Connecticut	9, 696	13, 142	17, 955	56.4	58.0	67.0	11, 785, 717	11, 066, 883	5, 512, 179	4, 103, 420	1, 412	692	3
MIDDLE ATLANTIC: New York	90, 455	121, 256	145,095	56.6	62.8	67.3	45, 421, 486	49, 345, 689	32,000,566	27, 102, 130	502	407	2
New Jersey	90, 480 14, 648	121, 200	140,000	57.7	62.6	70,0	17, 552, 491	14, 358, 519	8, 633, 475	6, 720, 030	1,198	772	3
Pennsylvania	92, 865	121, 116	139, 507	53.9	59,9	63,6	31, 713, 599	31, 494, 150	19, 279, 128	16, 647, 730	342	260	1
EAST NORTH CENTRAL:	and more						,,						1
Ohio	90, 363	124,806	145, 515	41.2	48.6	53.5	25, 409, 282	36, 339, 046	20, 426, 904	14, 502, 600	281	291	1
Indiana	68, 943	93, 207	103, 947	38.0	45.4	48, 2	16, 786, 360	25, 608, 743	14, 013, 473	9, 685, 540	243	275	1
Illinois	112, 916	151, 300	139, 941	52.6	63.8	55.6	40, 946, 060	60, 909, 392	27, 989, 488	22, 182, 550	363	403	2
Michigan	76, 078	102, 431	111, 842	44.9	52.1	54.0	19, 852, 747	24, 875, 549	15, 073, 607	10, 717, 220	261	243	1
Wisconsin	100, 062	110, 878	91, 119	55.0	58.6	51.4	29, 481, 697	34, 581, 714	14, 087, 638	10, 468, 610	295	312	1
WEST NORTH CENTRAL:	141 41	111 007					107 100 DOD	50 150 974	10 070 777	10 017 000	202	326	1
Minnesota	105, 057	111, 697	94, 934	56.7	62.6	60.8	27, 526, 878 39, 681, 156		16, 673, 777 18, 586, 300	16, 657, 820 16, 375, 670	323	320	
Iowa. Missouri.	122, 669 96, 649	136, 682 125, 248		\$7.1 37.8	64.0 47.6	50, 2 43, 5	19, 851, 509	,		9, 803, 610	205	264	1
North Dakota	57, 838	51, 109	45, 775	74.2	65.8	61.6	24, 594, 684			9, 207, 220	425	544	4 1
South Dakota	48, 762	49,658	41, 180	58.6	66.5	53,0	14, 647, 192			5, 528, 070	300	486	4
Nebraska	76, 806	80, 696		59.3	64.9	48.3	25, 356, 051			7, 399, 160	330	429	1
Kansas	96, 123	117,908		57.9	71.3	51.8	27, 020, 617				281	464	1 1
SOUTH ATLANTIC:		1.		1		]					1		
Delaware		5, 394		54.4	53.2	63.1	2, 518, 058		1 1 1	1, 075, 960	476	380	
Maryland		4 7			60.8	65.4	12, 865, 994		1	5, 715, 520	505	443	
District of Columbia		1	1	1	54.9	67.3	316, 842			197, 420	4, 526	1,249	
Virginia West Virginia					35.7 35.9	46.0 45.4	18,774,106				301 173	256 153	
North Carolina				31.8	20.1	38,4	5, 011, 736 11, 673, 938			2, 041, 500 5, 444, 950	173	138	1
South Carolina					32.2	39.4	9,002,864					220	
Georgia			1 '	-1	26.9	39.1	13, 992, 152				11	200	
Florida		4			37.4	42.3	17, 724, 067					501	
EAST SOUTH CENTRAL:		1	1	1	1					1	1	1.	
Kentucky					28.4	35, 4	11, 488, 72					199	
Tennessee					27.9	36.0	8, 661, 098					137	
Alabama	1				22.4	31.8	7, 072, 800				117	115	- 1 · · ·
Mississippi	47,811	43, 151	65, 628	15.3	15.9	23.9	6, 552, 260	6, 326, 842	5, 585, 445	3, 917, 256	137	147	
WEST SOUTH CENTRAL; Arkansas	. 66, 036	66,720	70,638	27.2	28.7	32,9	5 pm +	10 000 000					
Louisiana	1					26.3	9, 627, 117				146 364	181 653	- 1
Oklahoma.						38.4	22, 245, 14					344	
Teres						38.4	65, 660, 91					1	
MOUNTAIN:		1	-404 600	1	1	1				1 r.~,001,000	1 020	144	
Montana	27, 421	24, 378	12, 482	57.7	42.3	47,6	16, 371, 28	15, 603, 271	8, 258, 350	5, 077, 340	597	640	
Idaho		24, 789			1	51.0	12, 706, 23	14, 733, 521				1	1
Wyoming			5, 450	53.0		1	8, 005, 01	6, 717, 376					
Colorado							21, 549, 84		8, 770, 753	4, 100, 905		659	
New Mexico					- C - C - C - C - C - C - C - C - C - C	36.8	6, 556, 56						
Arizona							10, 288, 82						
Utah.							6, 038, 64						1
Nevada Pacifici	. 2, 124	1, 993	1,776	61.7	63.0	66.0	3, 660, 67	1 4, 295, 72	2, 315, 496	1, 386, 650	1, 723	2, 15	5 1,
Washington.	40, 996	38.055	29, 965	57.8	57.4	53, 3	90 114 04	1 90 900 +++	10 000 000			1 -	
Oregou				1	ŧ	1	29, 157, 84 18, 256, 71			· · · · ·			
California						1							
	.,	ւլ լադերաներ	-; ANO ( COD (	1 100-1	47%, 2	1 1 1 1 1 2		ar ມີປີນ-ນີ້20.ປຽງ	• •Z.2015.913	. 25 845 120	1 438	439	

[Exclusive of cash paid for housework]

<sup>1</sup> For 1929, farms reporting cash expended; for 1919 and 1909, farms reporting cash expended and (or) value of rent and board furnished. <sup>2</sup> includes value of board furnished.

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# TABLE 7.—FARM EXPENDITURES FOR FERTILIZER, 1879 TO 1929; WITH FARMS REPORTING, 1909 TO 1929; BY DIVISIONS AND STATES

		FAR	MS REPOR	TING					AMOUNT EX	FENDED 1			FEND	RAGE ITURE: REFO	S PEI
DIVISION AND STATE		Number		Per	cent c farms	of all	1929	1919	1909	1899	1889	1879	1929	1919	190
	1929	1919	1909	1929	1919	1909									
United States	2,324,090	2,271,179	1,823,032	37. 0	85. 2	28. 7	8271, 058, 673	8326, 399, 520	8114, 882, 541	853, 430, 910	\$38, 469, 598	828, 566, 397	8117	8144	\$6
GEOGRAPHIC DIVISIONS:										, 					·  
NewEngland	68, 537	77, 965	114, 922	54.9	49.8	60.9	15, 413, 246	18, 322, 697	9, 407, 759	4, 297, 705	2, 599, 314	1, 796, 386	225	235	8
Middle Atlantic	224, 819	280, 583	267, 337	62.9	66.0	57.1	30, 202, 326	41, 438, 394	18, 221, 474	11, 344, 290	8, 849, 755	7, 842, 422	134	148	6
East North Central	350, 789	360, 314	219, 848	36.3	33.2	19.6	29, 283, 692	30, 589, 412	8, 058, 881	5,866, 520	2, 783, 782	1, 544, 775	83	85	3
West North Central.	67,978	60, 913	23, 790	6.1	<b>5.6</b>	2.1	4, 471, 581	6, 168, 462	983, 216	1, 407, 175	283, 723	384, 048	66	101	4
South Atlantic East SouthCentral	813, 149 530, 278	933, 634 418, 217	769, 616	76.8	80.6	69, 2	119, 238, 902	185, 700, 177	59, 625, 130	22, 732, 670	18, 759, 139	14, 832, 926	147	199	7
West South Central.		108, 894	352, 199 60, 777	49.9 20.0	39, 8 10, 9	33.8	40, 093, 966	25, 476, 855	12, 901, 239	5, 337, 708	3, 889, 244	1, 627, 325	76	61	8
Mountain		4, 926	2,385	20.0	2.0	6.4 1.3	15, 719, 081	8, 696, 846	3, 225, 927	1, 374, 116	1,062,769	409.416	71	80	5
Pacific		25, 733	12, 158	15.9	11.0	6.4	630, 169 16, 005, 710	808, 518 9, 198, 159	159, 342 2, 299, 573	77, 116 993, 610	67,973 173,889	29, 848 119, 251	108 384	164 357	67 189
NEW ENGLAND:				i				10-10-20-20-20-20-20-20-20-20-20-20-20-20-20	<del>211-0021020-анасын</del> т		The strategy and the		-	, 	, Bananana I
Maine	23, 953	22, 641	39, 947	61.4	46.9	66.6	7, 287, 869	7, 759, 067	4,069,479	819, 680	456, 515	212, 135	304	343	102
NewHampshire	6, 960	8, 799	15, 351	46.7	42.9	56.7	439, 914	526, 180	\$12,580	367, 980	246, 293	165, 293	63	60	33
Vermont	11, 945	14, 568	19, 033	48.0	50.1	58.2	681, 259	857, 273	570, 752	447,065	217, 397	127, 670	57	59	30
Massachusetts	14, 289	16,992	21, 689	55.8	53, 1	58.8	3, 014, 621	3, 906, 733	1, 965, 682	1, 320, 600	896, 560	653, 422	211	230	91
Rhode Island Connecticut	1,890	2, 297	8, 318	56.9	56.3	62.7	336, 196	379, 786	335, 103	264, 140	172, 900	140, 318	178	165	101
MIDDLE ATLANTIC:	9, 500	12, 668	15, 584	55.2	55, 9	58.1	8, 653, 387	4, 893, 658	1, 954, 163	1,078, 240	609, 649	497, 448	885	386	125
New York	90, 500	113, 578	113, 883	56.6	58, 8	rn 0	11								
New Jersey	16,948	22, 774	23, 685	66.8	76, 7	52.8 70.7	11, 505, 537 6, 583, 368	15,067,371	7, 142, 265	4, 493, 050	8, 627, 726	2, 715, 477	127	133	63
Pennsylvania	117, 371	144, 231	129, 769	68.1	71.3	59.2	12, 113, 421	10, 742, 682 15, 628, 341	4, 277, 604 6, 801, 605	2, 165, 320 4, 685, 920	1, 837, 719 8, 384, 310	1, 601, 609 8, 525, 336	388 103	472 108	181
EAST NORTH CENTRAL:	,						14, 110, 321	10,020,011	0,001,000	4,000,920	0,001,010	0, 040, 000	100	205	52
Ohio	131, 372	165, 556	118, 888	59.9	64.5	43.7	11, 028, 050	13, 206, 018	4, 180, 485	2, 695, 470	1, 602, 869	550, 029	84	80	3/
Indiana	83,006	98, 703	55, 431	45.7	48.1	25.7	7, 054, 819	8, 734, 698	2, 189, 695	1, 558, 710	777, 727	340, 582	85	88	40
Illinois	30, 639	22, 488	11, 207	14.8	9.5	4.4	3, 593, 825	2,996,403	615, 594	830, 660	124, 977	174, 277	117	133	51
Michigan	72, 128	65, 782	31, 327	42.6	33, 5	15.1	5, 474, 121	4, 872, 543	945, 354	492, 360	173, 017	300, 995	76	74	3(
Wisconsin WEST NORTH CENTRAL:	33, 644	7,785	2, 995	18.5	4,1	1.7	2, 133, 377	779, 750	127, 753	294, 320	105, 192	178, 892	63	100	43
Minnesota	9, 402	3, 031	1, 436	5.1	1.7		714 052	100 000	<b>74 050</b>	871 700	dit ehn	00.070			
Iowa	15, 767	3, 177	1, 430	7.3	1.5	0.9 0.8	714,055 1,171,393	432, 680 596, 537	74, 653 109, 570	251, 120 337, 190	61, 578 86, 843	93, 250 98, 567	76 74	143 188	52
Missouri	35, 762	47, 383	18, 434	14.0	18.0	6.6	2, 030, 492	3, 941, 488	671, 073	370, 630	65, 705	109, 724	57	88	63 36
North Dakota	572	488	175	0.7	0.6	0.2	51,858	119, 502	10,003	13, 855	8, 923		91	245	57
South Dakota	819	175	185	0.4	0.2	0.2	21, 452	34, 460	11, 294	12, 940	15, 675		67	197	61
Nebraska	685	476	369	0.5	0.4	0.3	53, 709	64, 752	31, 021	153, 080	19, 269	20, 794	78	136	84
Kansas	5,471	6, 183	1, 415	3.3	3, 7	0.8	428, 622	979, 037	75, 602	268, 360	25, 740	61, 713	78	158	58
SOUTH ATLANTIC:		0.107	0.000												
Delaware Maryland	7, 550 33, 697	9, 107 39, 270	9,023 37,154	77.8	89.8 82.0	83. 3 75. 9	1, 300, 571	1, 222, 329	864, 577	539, 040	460, 465	467, 228	172	184	96
District of Columbia.	33, 097 73	116	37, 154 77	70.2	56,9	75.9 35.5	5, 525, 079 18, 159	7, 610, 478 23, 267	3, 387, 634 16, 975	2, 618, 890 22, 600	2, 419, 826 16, 651	2, 838, 465 22, 352	164 249	194 201	91
Virginia	110, 588	135, 218	111,277	64.8	72.6	60.5	11, 780, 935	17, 277, 705	8, 932, 455	3, 681, 790	2, 820, 200	2, 137, 283	107	128	220 62
West Virginia		35, 309	23, 967	86.7	40.5	24.8	1, 161, 087	1, 709, 546	528, 937	405, 270	210, 767	176, 800	88	48	22
North Caro ina	234, 426	228, 767	181, 718	83.8	84.8	71.6	34, 686, 830	48, 796, 694	12, 262, 533	4, 479, 030	2, 882, 238	2, 111, 767	148	213	67
South Carolina	139, 234	176, 537	140, 303	88.2	91.6	79.5	22, 080, 531	52, 546, 795	15, 162, 017	4, 494, 410	3, 867, 418	2, 659, 969	159	298	108
Georgia		280, 385	236, 271	85.1	90, 2	81. 2	27, 533, 063	46, 196, 434	16, 860, 149	5, 738, 520	5, 724, 187	4, 346, 920	127	165	71
Florida	39, 805	28, 925	29, 826	67.5	53, 6	59, 6	15, 152, 647	10, 316, 929	8, 609, 853	753, 120	857, 827	72, 642	381	857	121
EAST SOUTH CENTRAL: Kentucky	74 110	00 007	20 700						1 010 000		015 001				
Tennessee	74, 112 96, 794	86, 687 84, 827	56, 783 53, 498	30.1 39.4	32.0 33.6	21.9	2, 598, 592	3, 597, 449	1, 350, 720	908, 250	817, 231 361 007	145, 674	85 42	41	24
Alabama	208, 058	175, 407	163, 241	39.4 80.8	68.5	21.7 62.1	4, 110, 066 21, 829, 959	3, 525, 133 14, 066, 108	1, 216, 296 7, 630, 952	898, 070 2, 599, 290	361, 097 2, 421, 648	157, 442 1, 200, 956	42 105	42 80	.28 47
Mississippi	151, 309	71, 296	78, 677		26, 2	28.7	11, 555, 349	4, 288, 165	2, 703, 271	932, 098	789, 268	123, 253	78	60	34
WEST SOUTH CENTRAL:	,							4 413 AUN		-~				~	
Arkansas	73, 686	41, 338	22, 113	30.4	17.8	10.3	4, 606, 637	2, 572, 678	596, 553	172, 510	93, 939	56, 314	63	62	27
Louisiana	66, 541	37, 652	22, 111	41.2	27.8	18.3	5, 228, 630	8, 840, 469	2, 004, 919	1, 076, 890	906, 348	278, 805	79	102	91
Oklahoma 2	4, 440	2, 445	622	2.2	1.3	0.3	252, 511	452, 492	29, 092		3, 817		57	185	47
Texas.	76, 433	27, 459	15, 931	15.4	6.3	3.8	5, 631, 303	1,831,207	<b>595, 363</b>	124, 716	58, 665	74, 797	74	67	37
MOUNTAIN: Montana								100 000	10 000		4				1.04
Montana Idaho	303 1, 694	453 575	89 237	0.6	0.8	0.3	29, 947 80, 694	126, 232 106, 121	12, 823 20, 737	3, 940 17, 150	4, 757 2, 137	*******	99 48	279 185	138
Wyoming	1, 094	55	33	4.1	1.4	0.8	25, 423	106, 121 8, 489	20, 737 5, 302	17, 150 12, 700	2, 187	*********	48 90	180	87 161
Colorado	1, 484	1, 184	560	2.5	2.0	1.2	165, 188	8, 409 204, 448	61, 113	23, 225	25, 074	5, 195	111	249	10
New Mexico	844	1, 458	827	2.7	4.9	2.3	98, 520	118, 483	25, 371	2, 880	9, 217	10, 733	117	78	31
Arizona	524	126	33	3.7	1,3	0.4	176,021	40, 892	6,080	2, 921	10		836	325	18
Utah	646	1,017	571	2.4	4.0	2.6	48, 846	108, 956	20, 037	14, 300	23, 211	11, 394	76	107	3
Nevada	41	58	35	1.2	1.8	1, 3	5, 530	9, 897	8, 379		2, 019	2, 526	135	171	230
PACIFIC:				10.0			1 10/ 000	FOF 007	97.009	00 1 <i>6</i> 5	11 699		124	144	4
Washington	0.410														
Washington Oregon	9, 610 8, 163	3, 645 5, 614	1, 801 2, 887	13.6 14.8	5.5 11.2	3, 2 6, 3	1, 194, 379 669, 810	525, 637 489, 524	87,028 68,557	29, 165 27, 395	11, 633 13, 370	10, 519	82	87	2

<sup>1</sup> For 1929 the question specifically called for amount expended for commercial fertilizer, manure, marl, lime, and ground limestone; for 1919, manure and fertilizer; for 1909, manure and other fertilizers; and for 1899, 1889, and 1879, fertilizers. <sup>3</sup> Figures for 1889 are for Oklahoma Territory only.

121725-33-34

### TABLE 8.--FARM EXPENDITURES FOR FEED, WITH FARMS REPORTING, BY DIVISIONS AND STATES: 1929, 1919, AND 1909

		FAR	MS REPORTI	NG			A.M	IOUNT EXPENDE	) 	AVERAC TURES	E EXP PER	FAR
DIVISION AND STATE		Number		Per ce	nt of all i	(arms	1929	1919	1909	REPOR	TING	
	1929	1919	1909	1929	1918	1909				1929	1919	1909
United States	3, 283, 400	8, 511, 121	2, 265, 905	52, 2	54.4	87. 9	8919, 189, 626	\$1, 097, 224, 648	\$299, 839, 857	\$280	\$312	\$1
EOGRAPHIC DIVISIONS:		}					Am 110 000	69, 538, 522	84, 613, 964	844	517	2
New England.	104, 673	1.34, 450	151, 385	83, 8	85.9 80.0	80, 2 67, 6	67, 416, 362 154, 686, 628	149, 363, 497	54, 696, 044	527	439	Ĩ
Middle Atlantic	293, 504	340, 080	316, 609	82, 1 66, 5	63.0	36.8	146, 849, 753	197, 070, 423	40, 811, 121	229	288	1
East North Central	642, 422 678, 626	683, 476 693, 629	413, 476 417, 828	61,0	63.2	37,6	214, 675, 483	307, 163, 328	76, 207, 557	816	443	] 1
South Atlantic	427, 520	480, 494	235, 980	40.4	41.5	30.2	63, 893, 897	60, 504, 537	19, 255, 280	149	126	
East South Central	390, 887	269, 149	290, 938	36.8	35.1	27.9	48, 041, 878	43, 363, 604	15, 607, 673	110	117	1
West South Central	454, 367	505, 490	276, 833	41. 2	50.7	29.4	75, 220, 485	121, 091, 954	24, 723, 146	166	240	
Mountain	117, 397	141, 139	66, 097	48.6	57.8	36. 0	46, 824, 374	68, 635, 906	13, 204, 509	399	486	
Pacific	174, 004	163, 214	99, 759	66, 5	69.7	52, 5	106, 581, 766	80, 492, 877	20, 920, 563	613	493	
IEW ENGLAND:		Charlenger and and an		[				1	7 087 054	377	373	
Maine	30, 493	39, 794	46, 643	78.2	82.5	77.7	11, 497, 733	14, 858, 557	7, 267, 854	599	373 484	l
New Hampshire	12, 716	18, 015	21, 983	85.8	87.8	81,3	7, 622, 921 11, 546, 995	8, 725, 716	4, 758, 703	527	436	}
Vermont	21,900	25, 389	26, 332	88.0	87.3	80, 5 82, 6	20, 671, 133		10, 878, 178	955	728	
Massachusetts	21, 634 2, 892	27, 853 3, 608	30, 500 4, 358	84, 5 87, 1	87.0	82.4	3, 047, 274	1 1 1	1, 678, 188	1,054	801	
Rhode Island	2, 892 15, 038	3, 698	4, 558 21, 569	87.5	87.4	80.4	13,030,808	1		866	592	1
Connecticut	19, 098	10, (01	a1,000	\$1.0	1	1		1		1	1	
New York	131, 917	158, 428	151,962	82.5	82.0	70, 5	77, 399, 938		29, 545, 703	587	524	
New Jersey	20, 970	24, 933	23,014	82.6	83.9	68.7	20, 828, 868	14, 719, 159	5, 947, 181	993	590	)
Pennsylvania	140, 617	156, 719	141, 638	81.8	77.5	64.6	56, 458, 332	51, 678, 017	19, 203, 160	402	830	
EAST NORTH CENTRAL:				1	1		1	)		1	1	
Ohio	140, 122	161, 658	96, 050	63.9	63.0	34. 9	32, 603, 845		8, 445, 761	233	250	
Indiana	118, 784	130, 075	74,889	62.6	63.4	34, 8	26, 135, 018			230	325 408	
Ellinois		158, 180	94, 143			87.4	85, 973, 468			- H	408	
Miebigan	107, 275	111, 191	75, 882			86.7					228	
Wisconsin.	137, 954	122, 372	73, 512	75.9	64.6	41.5	31, 086, 790	27, 919, 456	0,012,010	1		
WEST NORTH CENTRAL: Minnesota	113, 627	100, 530	58, 551	61.3	56.3	87, 5	19, 678, 966	22, 940, 650	5, 041, 925	178	228	
Lowa		147,605	81, 302	1			53, 702, 951					
Missouri		164, 639	110, 416	1						282	865	5 {
North Dakots		41, 967	1			1			2, 003, 028	149		
South Dakota	40, 527	37, 966	21,768	48.7	50.9	28.0	12, 435, 82	6 16, 689, 237				
Nebraska	79, 355	83, 374	49, 251	61.3	67.0							
Kansas.	103, 708	117, 548	76, 921	62.5	71.1	43, 3	35, 115, 36	1 57, 514, 52	17, 815, 252	339	489	2
SOUTH ATLANTIC:	1		1	1				-	000 041	1	1	. ]
Delaware		6, 405										
Maryland.		33, 359										
District of Columbia		158						1 '				
Virginia West Virginia		47, 18		F F								
North Carolina		128, 964								11 .	1	· •
South Carolina		60, 08			1						) 98	8
Georgia		86, 580							4, 097, 048			
Florida		20, 47			L 87.5	33.5	8, 096, 84	1 5, 024, 66	8 1, 820, 356	3    361	24	5
EAST SOUTH CENTRAL:	1					1	i i			1		
Kentucky		119, 68										
Тедревее												· •
Alabama												
Mississippi West South Central:	- 92, 814	77, 71	8 73,75	8 29.	40,1	6 26.1	11, 496, 80	10,000,04	2 0, 000, 00	0 10	1 10	
Arkansas	110,676	118,99	8 78,096	8 45	7 51.	2 84.	12,408,54	17, 725, 48	9 4, 275, 58	7 11	2 14	0
Louisiana										ં શ		
Oklahoma												15
Teras.					6 49.	4 27.0	87, 804, 0	60, 762, 08	4 10, 800, 04	6 19	8 28	2
MOUNTAIN:		1		[	1	1	¥.		+ · · ·	1		
Montana												
Idabo												
Wyoming												
Colorado												
New Mexico												
Aricona Utab												
Utan Nerada												
PACIFIC:		1,00			• ud,			1, 200, 0			~   · · · ·	
Washington	51, 424	51,03	8 29, 37	5 72.	5 77.	0 52	3 25, 297, 3	33 20, 721, 8	30 5, 045, 29	17 49	2 40	06
Oregon.										- 13		89
California												96
	and the second s		1	1	1	1	31	and the second s				

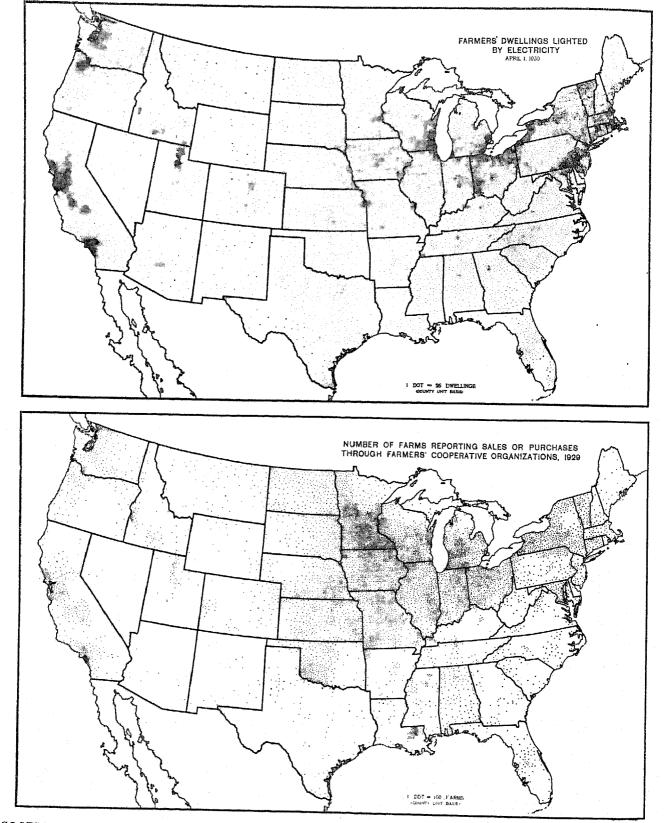
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TABLE 9.—PER CENT DISTRIBUTION OF SELECTED FARM EXPENDITURES, BY DIVISIONS AND STATES: 1929 AND 1919

[All percentages based on figures in Tables 3, 4, 5, 6, 7, and 8. See footnotes on those tables]

	FA		BOR (E OUSEW	XCLUSI 'OEK)	VE	COM MARL	MERCIA LIME,	L FER	TILIZE) ROUN	R, MANU D LIMES	RE, TONE		FE	ED			UC LIGH VER, 19		FARM AND MA	IMPLEM CHINER	
	Far			Expe		Tol	al expe	nditu	res	Comm fertil	izer	Fa	rms	Expe	ndi-	Fai report			Fai repor		
DIVISION AND STATE	repo	rting	Days of hired	tures	(cash)	Far repor		Amo	unt	(only) chased		repo	rting	tu	°05	Dwell- ings lighted	Elec- tric	Ex- pend-			Ex- pend-
	1929	1919	labor, 1929	1929	1919	1929	1919	1929	1919	Farms report- ing	Tons	1929	1919	1929	1919	by else- tricity, Apr. 1, 1930	light and power pur- chased	itures	Value Apr. 1, 1930	Pur- chases	itures
United States	100, 0	100, 0	100. 0	100, 0	100.0	100, 0	100. 0	100. 0	100, 0	100.0	100. 0	100.0	100. 0	100.0	100.0	100.0	100.0	100.0	100. 0	100, 0	100.0
GEOGRAPHIC DIVISIONS: New England	2, 81	3, 12	8, 98	5. 22	3. 98	2.95	8, 43	5, 69	5. 61	8. 05	4.58	3, 19	3, 83	7. 33	6. 84	6. 38	7.97	6. 42	1.98	2, 31	2, 54
Middle Atlantic	7.52				8,66	9.67	12.35	11.14	12.70	9. 21	10.60	8.94	1	16.83	13. 61	13.56	15.33	5 I	5.79	7.86	8.23
East North Central	17.04	20.17			16.59	15.09	15, 86	10.80	9.37	14. 23	10, 26	19.57		15, 98	17.96	24.09	22.60	1. 1	15, 86	18.88	17.92
West North Central	22, 95 13, 95				24.00 8.03	2,92 34,99	2.68 41.11	1.65	1.89 56.89	2, 52 36, 09	1.41 49.20	20, 67 13, 02	1		27. 99 5. 51	17.47	12,63 6.55	1	18.89 16.35	27.48 12.68	85.58 5.42
East South Central	9, 51	1	5.73		3,45	22.82	18, 41	14.79	7.81	23.63	15.74	11.90	1 1	4.68	3. 95	3.80	8.29	( ) )	15.88	9, 03	3, 57
West South Central	15.00	13. 50	14, 21	11.58	18.42	9. 51	4.79	5.80	2.66	9.81	5.73	13.84		8.18	11.04	4.78	8.25	\$ i	17.42	12.30	
Mountain	5.03	4.34	7,60	8.99	7, 73	0.25	0.22	0.23	0, 25	0.17	0.14	3, 58		5. 09	6. 26	5.84	6, 86		6	5.06	
Pacific	6, 20	4.93	12.48	18.59	14.15	1.79	1, 13	5.90	2.82	1. 29	2, 34	5.30	4,65	11.60	7. 34	16.45	21, 53	38, 90	3.96	4.39	7.73
NEW ENGLAND: Maine	0, 87	0.93	0.75	0. 95	0.68	1.03	1,00	2.69	2, 38	1. 07	2, 27	0.93	1.13	1. 25	1. 35	1.54	1.92	1.07	0.62	0.69	0.78
New Hampshire	0, 34	0.89	0, 84	0. 42	0, 33	0.30	0.39	0.16	0.16	0. 31	0.15	0, 39	1	0. 83	0. 80	0, 78	0.88		0.24	0.24	0.25
Vermont	0, 58	0.63	0.59		0. 53	0. 51	0.64	0. 25	0.26	0. 58	0, 23	0.67	0.72	1.26	1. 01	0.90	1.12	{	0.41	0.48	0.45
Massachusetts Rhode Island	0.58 0.07	0.63		1.81 0.24	1, 27 0, 16	0.61	0.75 0.10	1, 11 0, 12	1.20 0.12	0, 64 0, 08	0. 91 0. 10	0.65	i 1	2.25 0.33	1.85 0.26	1.91 0,23	2,42 0,29		0.40	0.50 0.07	0.60 0.08
Connecticut.	0. 07		{	1.23	1.01	0.00	0.10	1.35	1. 50	0, 03	0, 10	0.08	1 3	1.42	1.07	1.08	1. 34	1.39	1	0.83	0.39
MIDDLE ATLANTIC:																					
New York	3, 44	1			4.49	3. 89	5, 00	4. 24	4. 62	8, 64	3, 82	4. 02		8, 42	7.56	6, 54	7.59		2.62	8.73	
New Jersey	0, 56	1		1.84	1.31	0.73	1.00	2.43	3. 29	0,76	2.15	0.64	1 1	2,27	1.34	55 C		1	8	1	0.78 3.40
Pennsylvania EAST NORTH CENTRAL:	8. 53	4.19	8, 13	3. 32	2.87	5.05	6, 85	4. 47	4, 79	4. 82	4.62	4, 28	4. 46	6.14	4. 71	5, 42	5,82	4.40	2.11	8.57	a. 40
Ohio	8, 43	4. 32	2.69	2.66	3. 31	5.65	7, 29	4.07	4.05	5.78	4, 39	4. 27	4.60	3.55	3. 68	6.74	6.60	4. 15	8.49	3.28	2,98
Indiana	2, 62			1.76	2, 33	8. 57	4, 35	2, 60	2.68	3.65	2, 74	3.46		2.84	3. 86		3, 25				
Illinois	4, 29	1		) i	5.54	1. 82	0.99	1.23	0.92	0.68	0.71	4.37		8, 91	5.88 2.00		3, 21 4, 24	d		1	\$
Michigan Wisconsin	2, 89 3, 80	1			2.26 3.15	8.10 1.45	2, 90 0, 34	2.02 0.79	1.49 0.24	2, 97 1, 15	1.86 0.57	3, 27 4, 20		2, 29 8, 38		64	· ·	3 .	81	1	
WEST NORTH CENTRAL;	0.00	0.01	0.0-	0,00			0.01		V. 21								-,		1		
Minnesota	3, 99		3. 21	2.88		0.40	0. 13	0. 26	0. 13	0. 40	0. 21	3. 46		2.14	2.09	11 · · · ·	2,17		5) 5)		1
Iowa	4.66			1 D		0.68	0.14	0.43	0.18	0.45	0.28 0.76	4.43		5.84 5.14	7.21 5.48	5.47	4,40	1		6. 19 3. 40	3
Missouri North Dakota	8,67	1	1	1 1	3.01 2.58	1.54	2,09	0.75	1. 21 0. 04	1.45 0.02		5.10 0.86		0.46	1, 11	61 .	<b>i</b>	5 · · ·		2, 30	
South Dakota	1.85				2.20	0.01	0.01	0, 01	0. 01	(')	(4)	1.23		1.35	1. 52	1.08	<b>i</b> .	. · ·	1.43	2, 35	
Nebraska	2, 92	1				0.03	0.02	0.02	0. 02	0.02		2.42		4.60	5, 34		1	1.20	14	8.76	1
Kansas	8, 65	4.08	2, 43	2, 83	4.98	0, 24	0, 27	0.16	0. 30	0.18	0, 13	3. 16	3. 35	3.82	5.24	2.40	1.80	1. 28	2, 83	4, 41	7.96
SOUTH ATLANTIC: Delaware	0, 20	0, 19	0, 27	0, 26	0.19	0. 82	0.40	0.48	0. 37	0.34	0. 57	0. 23	0.18	0. 40	0, 14	0.19	0,18	0.19	0, 16	0.20	0.20
Maryland	0, 97	1		1		1.45	1.73	2,04	2. 33	1.50	2, 39	0, 98		1,15	0, 78	91	1			0.77	0.74
District of Columbia	(1)	(4)	0.02	1 .	1 1	(*)	0, 01	0. 01	0. 01	(1)	(4)	(1)	(4)	0.01	0, 02	6	0.01	1	a	(1)	(1)
Virginia	2, 37	1			1		5.95	4. 35	5.29 0.52			2.48 1.37	2.77	1.38 0.62		11		1	2.63 1.20	1	1.22 0.42
West Virginia	1, 10 3, 38			)		1.30	1.55 10.07	0.43 12.80				8.71	1	1.21	1, 12	1		1	10	1	
South Carolina	1, 87		1	1	2	5.99		8.15				1.22	1. 71	0. 39	0. 54	0,72	0.58		<b>1</b>		
Georgia	8, 00							*** 10				8	1		)	81 · · · ·					
Florida	1.06	0.70	2.06	1.86	0,92	1.71	1, 27	5, 59	3, 16	1.76	4, 94	0.68	0, 58	0.88	0, 46	0.77	0,72	0,70	0.81	0.63	0.50
EAST SOUTH CENTRAL: Kentucky	2,69	2,66	1.65	1.20	1. 39	8.19	3.82	0.96	1, 10	8, 30	1. 23	8. 21	8. 41	1.36	1. 46	1.27	1.08	0.70			
Tennessee	2.70			1	0, 88	4.10	3.73	1. 52	1, 08	4, 81	L. 84	8.18	2.85	1, 18	1.02					1	
Alabama	2.20		1 I													¢	1.4			1	
Mississippi WEST South CENTRAL:	1,82	2 1.49	1.12	0.69	0,58	6. 51	3, 14	4.26	1, 31	6.75	4, 08	2.83	2, 21	0ھ.د	0.84	0.01	0. 13	V. 00	7.07	a. 00	0.00
Arkansas	2. 51	2.81	1.47	1.01	1.10	3. 17	1.82	1.70	0, 79			3. 87	3. 89				1 .	1	11		1
Louisiana	1, 36	3 1.04	2, 16	1. 87	1.79	2,80	1.66	1.93	1. 18	2,96											
Oklahoma		1																			
Texas MOUNTAIN:	7.6	6, 59	8.14	6.87	7.81	3.29	1, 21	2.08	0, 50	, a.dv	<b>34,08</b>	0.04	0.14	****		1	1 *** **				
Montana	1.0	0.8	1.40	1.71	1.42	0. 01	0.02	0.01	0.04	0.01	(1)	0.6	3 1.08			1			3.1		8 C
Idaho	0, 93	7 0.8	5 0.99	1. 88	1.84	0.07		ł	1		4					8 f					
Wyoming	0.8				1			0.01		0.01		0.2					4		1	1	
Oolorado	1, 3		4			M			1		A	12	4	I .						4	1
Arizona	0.2			1		11	1			1 0.02	0.05	0.2	0.14	0, 88	0.19						
Utah	0.5	7 0.5	2 0.4	8 0.6	3 0.68	0.0	1	1	1		(4)	0.4					1				
Nevada	0.0	8 0.0°	7 0.8	1 0.8	3 0.39	10	(4)	(1)	0	(1) •	(4)	0.0	7 0.08	0, 19	0,11	B 0,14	0,1		0.04		0.10
PACIFIC: Washington	1.5	6 1.3	2 2.0	8 8.0	5 2.58	0.4	0, 16	0, 44	0, 1	6 0.87	0, 26	1.5	7 1.4	2.7							
Oregon		1	7 1.5	1, 91	1.50	0.8	0. 25	0. 25	0, 1	5 0.20	0.17	1.1	7 0.98	1.4							
California		4 2.6	4 80	2 13.62	2] 10.01	1.0	0,73	5. 22	2 2 5	1 0.75	1.8	2.5	6 2, 2	2 7.4	1 4.2	3 10.2	19 19 8	1 83. 2	1 1.9	e 2,2	0 4.45

<sup>1</sup> Less than one-hundredth of 1 per cent.



COOPERATIVE MARKETING AND PURCHASING BY FARMERS

Data for cooperative marketing of farm products and

were collected at the 1930, 1925, and 1920 censuses. Cooperative activities are carried on by associations ranging from rather informal organizations to more or less formal organizations incorporated under general for cooperative purchasing of supplies by farm operators corporation laws or under cooperative statutes.

It should be borne in mind that the number of farmers reporting cooperative purchases or sales do not give a *count* of the *membership* of cooperative associations, but rather the *number* of *individual operators* who bought or sold through such associations in a particular year. Thus, non-members trading through such associations would be included, inactive members not dealing through cooperative associations in the particular year in question would be excluded, and operators who dealt through more than one association would be counted but once. The nature of the questions would exclude those operators whose cooperative activities were limited to strictly service functions such as insurance, financing, cotton ginning, and telephone communication.

TABLE 10.—SALES AND PURCHASES THROUGH FARMERS' CO-OPERATIVE ORGANIZATIONS, 1929, 1924, AND 1919; AND VALUE OF ALL PRODUCTS <sup>1</sup> ON FARMS REPORTING COOPERA-TIVE SALES, 1929; FOR THE UNITED STATES

[Statistics for divisions and States in Tables 12 and 13]

ITEM	1929	1924	1919
All farms 1 Farms reporting cooperative sales and (or) cooperative purchases Per cent of all farms	6, 288, 648 824, 537 13. 1		
Farms reporting cooperative sales Fer cent of all farms Value of all products 1. Average value per farm reporting Value of products sold cooperatively Average value per farm reporting Fer cent of all products for farms re- porting cooperative sales	\$892, 481, 491	13. 9 \$858, 284, 387 \$971	7.9
Farms reporting cooperative purchases Per cent of all farms Value of supplies purchased coopera- tively Average value per farm reporting	410, 914 6. 5 \$125, 048, 597	362, 745 5. 7 \$75, 971, 169	5, 1 \$84, 615, 669

<sup>1</sup> Sold, traded, or consumed by farm operator's family. <sup>1</sup> Number on April 1, 1930, and January 1, 1925 and 1920.

In 1930 there were 824,537, or 13.1 per cent, of all farm operators in the United States who reported trading through farmers' cooperative organizations during the calendar year 1929. Of those reporting cooperative activities, 278,272, or 33.7 per cent, made both sales and purchases through cooperative associations; 413,623, or 50.2 per cent, reported sales and no purchases; and 132,642, or 16.1 per cent, reported purchases and no sales. Thus the combined number selling through cooperative organizations was 691,895, or 11 per cent of all operators, and the number who made purchases was 410,914, or 6.5 per cent.

The proportion of all farms reporting transactions through cooperative associations was 9.7 per cent in 1920. It increased to 15.5 per cent in 1925 and receded to 13.1 per cent in 1930. The decline from 1925 to 1930 was due to a considerable reduction in the number of producers who sold cooperatively, which was only partially offset by an increase in the number who reported purchases. Thus covering operations in the preceding calendar year, the respective percentages reporting sales in 1930, 1925, and 1920 were 11, 13.9, and 7.9, while the percentages reporting

purchases for the same period were 6.5, 5.7, and 5.1. The number and percentage of producers reporting sales in the three census years were affected materially by large increases reported in 1925 over 1920 in the three Southern divisions and by a heavy decrease in the number of farms reporting in the South in 1930 in comparison with 1925. Minnesota has held the foremost rank in the percentage of farms reporting cooperative sales for the three census years, the percentages being 51.6 for 1930, 42.4 for 1925, and 43.9 for 1920. The States leading in the percentage of farms reporting cooperative purchases for the three census years were Minnesota in 1930 with 21.4 per cent, Iowa in 1925 with 15.9 per cent, and Nebraska in 1920 with 22 per cent.

The value of all farm products sold, traded, or consumed by the farm operator's family for the year 1929 for those farms reporting cooperative sales amounted to \$2,138,048,366, or an average of \$3,090 per farm; of this total amount, \$892,481,491, or 41.7 per cent, represented the value of products sold cooperatively. The average sales per farm made through cooperative associations in 1929 was \$1,290, as compared with \$971 in 1924 and \$1,412 in 1919. With the exception of the Mountain division, the increase for 1929 over 1924 was general in all geographic divisions. The range in the average value of products per farm sold cooperatively in 1929 varied from \$389 in Tennessee to \$4,621 in Arizona. For those farms reporting cooperative sales, the proportion of such sales to the value of all farm products sold, traded, or consumed by the operator's family on such farms, varied from 20.1 per cent in Tennessee to 77.4 per cent in Florida.

The value of supplies purchased through farmers' organizations by farm operators in 1929 amounted to \$125,048,597, or an average purchase of \$304 per farm reporting, compared with \$209 in 1924 and \$257 in 1919. Thus in 1929, on a "farm reporting" basis, cooperative sales were more than four times greater than cooperative purchases. The average expenditure per farm in 1929 for supplies purchased cooperatively ranged from \$133 in Tennessee to \$1,329 in Connecticut.

TABLE 11.—FARMS REPORTING SALES AND (OB) PURCHASES THROUGH FARMERS' COOPERATIVE ORGANIZATIONS, WITH PER CENT DISTRIBUTION, FOR THE UNITED STATES: 1929, 1924, AND 1919

[Statistics for divisions and States in Tables 12 and 13]

ITEM	FARI	AS REPOR	ring		ER CENT	
	1929	1924	1919	1629	1924	1919
Sales and (or) purchases	824, 537	987, 376	624, 527	100.0	100.0	100.0
Sales Sales and purchases Sales and no purchases	691, 895 278, 272 413, 623	884, 207 259, 576 624, 631	511, 383 216, 305 295, 078	83.9 33.7 50.2	89.6 26.3 63.3	$\begin{array}{c} 81.9 \\ 34.6 \\ 47.2 \end{array}$
Purchases Sales and purchases Purchases and no sales	410, 914 278, 272 132, 642	362, 745 259, 576 103, 169	329, 449 216, 305 113, 144	49.8 33.7 16.1	36.7 26.3 10.4	$\begin{array}{c c} 52.8\\ 34.6\\ 18.1 \end{array}$

TABLE 12.—SALES AND PURCHASES THROUGH FARMERS' COOPERATIVE ORGANIZATIONS, 1929, 1924, BY DIVISIONS

	1	ang ng tanan sa mang ng manang ng mang	****	1		1.1.1.2.1.1.1.1				1	1					1			
			ALL FARMS		FARMS AND (	REFORTI OR) COOI	NG COOPI PERATIVI	EBATI Pui	IVE SA ICHAS	LES ES	FAR	MS REPO	RTING CO SALES	OPER	LATIV:	rs		REPORTI IVE PUR	
	DIVISION AND STATE				N	lumber		Per	cent c farms	f all		Number			cent ( farms		]	Number	
		1990	1925	1920	1929	1924	1919	1929	1924	1919	1929	1924	1919	1929	1924	1919	1929	1924	1919
1	United States	6, 288, 648	6, 971, 640	8, 448, 343	894, 837	987, 876	624, 527	18, 1	15. 5	9, 7	691, 895	884, 207	511, 388	11.0	13.9	7.9	410, 914	362, 745	329, 449,
2	BEOGRAPHIC DIVISIONS: New England	124, 925	159, 489	156, 584	16, 989	18, 458	10, 229	13,6	11.6	6.5	9, 170	10, 845	4, 060	7.3	6,8	2.6	10, 897	10, 787	7, 579
3	Middle Atlantic	357, 603	418, 868	425, 147	57, 788			16. 2	1		41,068	39, 295	33, 854		9.4	8.0	30, 856	24, 716	17, 884
4	E. North Central	966, 502	1,051, 572	· 1	216, 260	236, 552	173, 672	22, 4		16, 0	170, 992		144, 339					103, 199	83, 518
5	W. North Central.	1, 112, 755			322, 528		284, 123	29,0		25.9	290, 199		243, 288 9, 517	26.1 2.7	27.3 8.2	22, 2	159, 988 15, 866	140, 588 20, 830	166, 084 12, 230
15 7	E. South Atlantic	1, 058, 468			36, 606 29, 501		18,770 15,488	3.5 2.8		1.6 1.5	28, 662 19, 670		12,705	1 1	l I		15,948	21, 293	5, 285
8	W. South Central.	1, 103, 134		996, 088			18,755	4, 3					15, 635			1.6	18, 421	17,720	9, 332
9	Mountain	241, 314	233, 392	244, 109	31, 489	26, 947	19,697	13.0			28, 847	24, 581	12, 785					8,000	13, 875
10	Pacific	261, 733	265, 587	284, 164	65, 965	54, 494	38, 714	25.2	20, 5	16.5	61, 495	51, 220	85, 200	23, 5	19, 3	15.0	31, 272	15, 612	13, 662
11	NEW ENGLAND: Maine	39, 006	50, 033	48, 227	2, 093	3, 885	4,062	5.4	7.8	8, 4	755	2, 555	1, 264	1.9	5.1	2.6	1,674	1, 896	3, 407
12	New Hampshire	14.906	21,065	20, 523	1, 912		1,027	12.8				428	122		2.0		1,647	1,701	946
18	Vermont	24, 898	27, 786	29, 075	5, 826		2, 513	23. 4				2, 745	1, 239				2, 632	3, 186	1,672
14	Massachusetts	25, 598	33, 454	32, 001	3, 678			14.4				2,091	747				2,891	2, 278	1,009
15 16	Rhode Island	3, 323 17, 195	3, 911 23, 240	4, 088 22, 655	241 3, 239		145 935	7.8			140 2,062	235 2,791	95 593				148 1, 905	213 1, 513	86 459
	MIDDLE ATLANTIC:	T13 TA9	40, 24U	008 رغم	0, 400	a, 100	800	40, Ø	10.1	<b>1</b> .F	عدان ره	~, 101	000	0	1		~,	-, 010	300
17	New York	159, 806	188, 754	193, 195	38, 239	81, 957	27, 283	23. 9	16.9	14, 1	28, 015	26, 586	23, 494	17.5	14.1	12.2	19, 933	12, 509	7,106
18	New Jersey	25, 378		29, 702	2, 810		4, 282		1 .				2, 758				1,899	1,606	
10	Pennsylvania	172, 419	200, 443	202, 250	16, 739	18, 374	13, 514	9.7	9.2	6.7	11, 303	11,308	7,602	6.6	5.0	3.8	9,024	10, 601	7,980
20	LAFT NORTH CENTRAL: Obio	219, 296	244. 703	256, 695	41, 894	48, 127	30, 621	19, 1	19.7	11.9	31, 067	89, 995	19,952	14.2	16.8	7.8	26,736	24, 711	21, 250
21	Indiana	181, 570		205, 126			19, 212						14,638				18,742		10,019
22	1llinois	214, 497	225, 601	237, 181			28, 628						24, 797				16, 861	17, 471	12, 303
23	Michigan	169, 872		196,447			47,021			1 1	พ่		42, 104				28,721	25, 124	
24	Wisconsin W. NORTH CENTRAL:	181, 767	193,155	189, 295	53, 354	50, 556	48, 190	29. 1	26.2	25.5	46, 276	45, 528	42, 848	20.0	20.0	24.0	24, 808	21, 335	21, 792
25	Minnesota	185, 255	188, 231	178,478	98, 981	82, 419	81, 145	53.4	43.8	45.5	95, 639	79,891	78, 314	51.6	42, 4	43.9	39, 561	26, 066	29, 611
26	Iowa	214, 928		213, 439	66, 520		51, 630	31. (	87.1								88, 183		
27	Missouri	255, 940			8		25, 496			1	11 ···	, ·			<b>t</b> .		81,982		
28 29	North Dakota	77, 975 83, 157					19, 814 22, 517										11,085 11,176		
30	Nebraska	129, 458				4 · · · ·							· ·						
81	Kansas	166, 042	165, 871	165, 286	30, 880	\$ 35, 115	43, 188	18, (	5 21. 2	26. 1	26, 228	30, 979	88, 654	15.8	3 18.1	7 20.4	17, 903	17, 822	32, 321
1	SOUTH ATLANTIC:																		
32   33	Delaware Maryland	9,707 43,200			R .			Į –		1	£1				4	1		1	ર ા
84	Dist. of Columbia_	10				0,400		13.	6 10. 2		7,000	0,12	1,000	10.0	14.	0.9	0,000	0,017	001
35	Virginia	170, 61(			14	30, 877	7, 537	4.	1 15.7	4.(	4, 39	27, 560	3, 849	2.0	3 14.	2 2,1	3, 947	5, 768	5, 161
36	West Virginia												1					1 1	
37 38	North Carolina South Carolina		1		5	1	4										2, 158 555		
39	Georgia	4			11	1 '		1			11						1	1	1
40	Florida	58, 964				1 -											n ?	1	1 1
	EAST SOUTH CENTRAL:					· · ·		-			1								]
41 42	Kentucky																		
43	Alabama	257, 39																	
44	Mississippi	312, 65																	
	WEST SOUTH CENTRAL:												1	1		_			
45 46	Arkansas. Louisiana																11 ·	4 7	1
47	Oklahoma													4 4. 0 10.					
48	Texas										2								
	MOUNTAIN:		1	1		1			1.		1			1.	ł	1 .			1
49   50	Montana Idaho													8 11.					
51	Wyonalog													6 16. 0 13.					
52	Colorado	59, 95			4 7, 41	11,59								7 11,					
58	New Mexico									4 4.	2 1,44	3 2, 01	4 97	5 4.	6 6.	4 8,1	56	82	9 574
54 KK	Arisona Utah																		
55 56	Nevada							5 16. 2 16.						7 15. 2 15.	4 14. 7 1.				
	PACIFIC:	1	1	1	-		ר (	-	1	1	1 00		1	a 10.	" "	<b>v</b>	·   · · ·		
67	Washington								0 19.										
58   59	Oregon California	. 55, 15 . 135, 67							5 11.					5 15.					
			40. 100,40					r 41.	0:23.	0 A.A.	4 86, 12		01 25,77	2  26.	0  28,	8 21.	9  14,88	5 6,25	4 5, 792

<sup>1</sup> Sold, traded, or consumed by farm operator's family.

<sup>1</sup> For farms reporting cooperative sales.

AND 1919; AND VALUE OF ALL PRODUCTS: ON FARMS REPORTING COOPERATIVE SALES, 1929; AND STATES

REI COOI PUR COI	ARMS PORTI PERAT CHAS ntinu	ING TIVE ES	VALUE OF ALL UCTS <sup>1</sup> ON REPORTING ERATIVE 1929	FARMS COOP- SALES,		VALUE OF FR	ODUCTS SOLD	COOPEI	RATIVEI	Ţ		VALUE (	OF BUPPLIES	PURCHASED	COOPER	ATIVE	. <b>T</b>
	ent o arms	of all	Amount	Aver- age per farm		Amount	·	A ver	age per eportin	farm g	Per cent of all		Amount		Avers rej	ze per Sorting	
1929	1924	1919		report- ing	1929	1924	1919	1929	1924	1919	prod- ucts, 1929‡	1929	1924	1919	1929	1924	1919
6, 5	5.7	5.1	\$2, 138, 048, 866	83, 090	\$892, 481, 491	\$858, 284, 387	8721, 983, 689	81, 290	\$971	81, 412	41. 7	8125, 048, 597	\$75, 971, 169	<b>\$84, 615, 669</b>	\$304	\$209	8257
8.7 8.6 11.9 14.4 1.5 1.5 1.7 5.1 11.9	6.8 5.9 9.8 12.7 1.9 2.1 1.7 3.4 5.9	4.2 7.7 15.1 1.1 0.5 0.9 5.7	36, 456, 836 135, 252, 269 466, 493, 134 871, 316, 979 79, 471, 647 36, 435, 245 109, 310, 604 109, 808, 884 293, 412, 778	3, 293 2, 728 3, 002 2, 773 1, 852 2, 585 3, 877	21, 067, 579 72, 167, 465 150, 849, 215 310, 334, 418 41, 801, 737 13, 602, 866 48, 177, 517 36, 702, 878 197, 777, 816	20, 745, 326 50, 273, 909 145, 068, 090 292, 354, 272 73, 376, 620 49, 827, 199 75, 724, 191 35, 043, 394 115, 871, 386		2, 297 1, 757 882 1, 069 1, 458 692 1, 139 1, 295 3, 216	1, 913 1, 279 706 964 807 547 1, 118 1, 426 2, 262	1, 457 1, 808 919 1, 236 2, 169 415 1, 723 1, 364 4, 292	57.8 53.4 32.3 35.6 52.6 37.3 44.1 33.4 67.4	16, 870, 555 34, 448, 719 33, 572, 528 6, 610, 674 2, 526, 309 3, 881, 814	5, 709, 116 7, 376, 663 15, 683, 188 25, 740, 405 4, 968, 028 2, 691, 511 2, 702, 699 1, 709, 581 9, 284, 978	3, 035, 806 6, 193, 647 14, 305, 931 43, 115, 568 2, 607, 639 763, 054 2, 803, 314 3, 769, 213 8, 021, 497	808 547 212 210 417 158 211 291 792	529 298 152 183 239 126 153 214 601	401 346 171 260 213 144 300 272 587
4.8 11.0 10.6 11.3 4.5 11.1	8.8 8.1 11.5 6.8 5.4 6.5	3.2 2.1 2.0	2, 376, 965 1, 666, 981 12, 750, 078 7, 449, 095 548, 453 11, 665, 264	3, 616 2, 962 5, 144 3, 918 5, 657	871, 777 675, 438 6, 807, 273 4, 987, 958 307, 824 7, 417, 309	3, 823, 291 375, 303 3, 876, 575 4, 144, 690 570, 659 7, 954, 808	1, 421, 022 120, 427 1, 449, 389 1, 671, 099 222, 078 1, 032, 666	1, 155 1, 465 1, 582 3, 445 2, 199 3, 597	1, 496 877 1, 412 1, 982 2, 428 2, 850	1, 124 987 1, 170 2, 237 2, 338 1, 741	36.7 40.5 53.4 67.0 56.1 63.6	928, 175 1, 113, 317 1, 512, 633 2, 544, 891 171, 679 2, 531, 429	625, 998 911, 434 1, 485, 455 1, 461, 873 122, 670 1, 101, 686	1, 498, 395 246, 059 510, 305 521, 547 30, 534 228, 966	554 676 575 850 1, 160 1, 329	330 536 466 642 576 728	440 200 305 517 355 499
12, 5 7, 5 5, 2	6,6 5,4 5,3	9.4	96, 143, 771 8, 466, 514 80, 641, 974	8, 432 4, 838 2, 711	52, 623, 182 5, 271, 712 14, 272, 571	87, 944, 517 2, 309, 491 10, 019, 901	44, 906, 247 6, 603, 253 9, 714, 628	1, 878 3, 012 1, 263	1, 427 1, 648 886	1, 911 2, 394 1 <b>, 2</b> 78	54. 7 62. 3 46. 6	11, 407, 972 1, 785, 290 3, 677, 293	8, 927, 479 956, 753 2, 492, 431	2, 270, 976 2, 093, 705 1, 828, 966	572 940 408	314 596 285	320 748 229
12, 2 10, 3 7, 9 17, 0 18, 4	10.1 7.4 7.7 13.1 11.0	5.2 9.2	84, 514, 770 55, 651, 449 136, 689, 440 66, 974, 421 122, 663, 048		26, 102, 644 16, 687, 604 48, 933, 674 16, 581, 237 42, 544, 056	27, 991, 322 17, 212, 911 52, 827, 619 19, 552, 039 27, 484, 199	18, 762, 020 12, 778, 040 47, 920, 487 24, 294, 688 28, 884, 215	840 816 1, 169 529 919	700 603 1, 004 505 604	940 873 1, 933 577 674	30, 9 30, 0 85, 8 24, 8 34, 7	6, 167, 597 3, 463, 461 3, 826, 054 5, 797, 257 5, 194, 350	8, 590, 298 1, 774, 005 2, 978, 752 8, 606, 650 8, 798, 483	8, 197, 047 1, 766, 268 3, 333, 667 2, 445, 958 8, 562, 996	231 185 227 202 214	145 122 170 144 175	150 176 271 135 164
21.4 15.4 12.5 14.2 18.4 11.7 10.8	13.8 15.9 12.8 7.3 11.1 12.1 10.4	15, 2 6, 8 16, 2 18, 4 22, 0	250, 594, 425 219, 181, 028 92, 502, 268 66, 871, 582 60, 021, 704 84, 201, 907 97, 944, 065	8, 717 1, 950 8, 281 3, 309 3, 599	105, v65, 586 74, 635, 414 29, 448, 479 20, 830, 641 16, 409, 195 26, 648, 718 36, 396, 390	73, 260, 576 81, 290, 503 32, 574, 506 17, 081, 768 18, 651, 404 82, 740, 682 36, 804, 833	82, 760, 459 59, 403, 626 13, 474, 992 24, 484, 558 81, 651, 244 44, 755, 140 44, 290, 957	1, 108 1, 266 621 1, 022 905 1, 139 1, 388	917 1, 119 535 1, 319 1, 050 1, 164 1, 188	1, 057 1, 370 759 1, 404 1, 564 1, 375 1, 316	42.3 34.1 31.8 31.2 27.3 81.6 37.2	4, 441, 475	6, 581, 022 4, 587, 598 1, 362, 873 1, 451, 212 3, 715, 237	6, 760, 952 2, 964, 714 8, 840, 811 8, 583, 771 9, 660, 107	103 225 203 146 186 294 262	147 193 188 247 164 240 242	224 208 165 306 261 353 299
1.9 7.8	4.0 7.8		226, 167 13, 875, 977	8, 534 3, 061	86, 138 6, 924, 827	121, 602 7, 297, 676	218, 034 3, 059, 200	1, 346 1, 528	630 1, 192	<b>39</b> 8 1, 656	88, 1 49, 9	188, 492 1, 178, 464	135, 506 909, 891	29, 554 272, 420	745 848	327 238	107 428
2.8 2.7 0.8 0.4 0.7 2.8 0.5	3.0 8,1 1.0 0.5 1.0 3.5 1.3	2,5 1,1 0,1 0,1 0,7	17, 241, 873 4, 078, 215 7, 903, 284 7, 094, 403 10, 420, 881 18, 571, 847 9, 810, 872	1, 729 2, 878 2, 027 3, 201	8, 792, 136 1, 207, 106 2, 906, 980 3, 855, 277 3, 659, 998 14, 369, 275 2, 736, 445	20, 912, 352 919, 188 13, 017, 587 8, 922, 354 9, 081, 592 13, 104, 289 27, 515, 129	10, 186, 092 284, 150 663, 227 961, 999 890, 605 4, 846, 379 2, 430, 792		759 296 587 842 679 1, 690 512	455 780 4, 739 4, 241		389, 264 483, 033 718, 301 399, 988 1, 828, 597	320, 138		282	a u i c	234 99 142 678 159 706 163
1, 2 3, 0 1, 3	1.8 3.2 2.3	0.5 0.2	6, 876, 610 11, 122, 211 8, 625, 552	1, 936 1, 530	1, 381, 835 3, 863, 460 5, 621, 126	7, 181, 922 7, 028, 647 8, 101, 501	607, 671 837, 498 1, 395, 040	389 531	469 618 757	484 313 265	20, 1 34, 7	382, 158 1, 360, 428	445, 590 1, 021, 328	133, 270 72, 287	138 177 123	99	114 171 131
1, 0 4, 3 2, 6 0, 7	1.8 8.8 2.5 1.0	0.5 1,2 2.6 0.4	8, 359, 697 11, 245, 464 58, 978, 988 30, 726, 455		3, 153, 892 7, 075, 237 23, 489, 243 14, 459, 145	7, 119, 097 8, 604, 125 20, 854, 280 89, 146, 689	8, 055, 084	1,082	803 851 1, 095 1, 318		62.9 39.8		666, 888	869, 389 1, 106, 270	142 197 180 326		162 546 226 370
6.4 5.2 3.6 5.6 1.8 1.3 8,4 3.9	1.5 2.6 3.3 6.4 2.6 2.1 8.7 0.3	6.8 3.9 9.4 1.9 1.2 5.4	19, 325, 074 26, 471, 625 9, 711, 915 27, 331, 190 5, 122, 781 5, 972, 465 12, 128, 518 3, 835, 316	3, 765 4, 528 4, 029 3, 550 9, 347 2, 893	6, 730, 386 7, 710, 675 2, 465, 886 8, 399, 417 2, 531, 299 2, 952, 999 4, 263, 917 1, 648, 299	2, 367, 733	8, 399, 598 646, 748 9, 308, 346 1, 047, 105 894, 508 1, 105, 523	1, 097 1, 150 1, 238 1, 754 4, 621 1, 617	829 820 1, 948 1, 616 2, 895 627	1, 591 1, 074 2, 192 981	29, 1 25, 4 30, 7 49, 4 49, 4 35, 2	821, 793 447, 462 218, 118 804, 378 170, 487 94, 937 979, 754 96, 104	225, 785 883, 318 138, 526 64, 883	657, 952 137, 403 1, 658, 858 220, 026 41, 170 183, 112	271 206 375 241 300 522 429 267	191 129 441 239 167 292 119 146	298 248 225 295 383 340 133
16.8 8.2 11.0	8.9 5.1 4.6	5.0	53, 289, 150 26, 094, 803 214, 028, 825	8, 021			7, 746, 624	1, 816	1, 442	2,015	43.6	1, 445, 269	1, 159, 748	990, 166	321	406	506 894 746

**新州時間前前前前前**前前

TABLE 13.-FARMS REPORTING SALES AND (OR) PURCHASES THROUGH FARMERS' COOPERATIVE

		1			1			FARM	S REPORT	ING	<u></u>					
DIVES	ION AND STATE	Sulacar	id (or) pa	****				1	Sales					] 	Purchases	5
4-74 * Maria	anna san prùimheanna ann an ann ann ann ann ann ann ann	6.8 <b>4</b> 10.90 (94)	ior (01) Pri	1 4/1 #2009977*		Total		Sales	and pure	hases	Sales a:	nd no pui	rchases		Total	
		1920	1924	1919	1929	1924	1918	1929	1924	1919	1929	1924	1919	1929	1924	191
1	United States	824, 537	987, 878	624, 537	691, 895	B84, 207	511, 383	278, 272	259, 576	216, 305	413, 623	624, 631	295, 078	410, 914	362, 745	329, 4
	RAPHIC DIVISIONS:															
	ew England iddle Atlantic	16, 989 57, 788	18, 458 52, 710	10, 229	9, 170 41, 068	10, 845	4,060	3,078	3, 174	1,410	6, 092 26, 932	7,671	2,650	10,897	10, 787	7,
	ast North Central.	216, 269	236, 552	45, 079 173, 672	41, 066 170, 992	39, 295 205, 409	33, 854 144, 339	14, 136 70, 100	11, 301 72, 056	6, 659 54, 185	26,932	27, 994 133, 353	27, 195 90, 154	30, 856 115, 368	24, 716 103, 199	17,
W	est North Central	322, 528	327, 510	284, 123	290, 199	303, 190	243, 288	127,659	116, 268	125, 249	162, 540	186,922	118, 039	159, 988	140, 588	166,
	uth Atlantic	36, 606	99, 899	18, 770	28, 662	90, 879	9, 517	7, 922	11, 810	2,977	20,740	79,069	6, 540	15, 866	20, 830	12,
	ast South Central. est South Central.	29, 501	97, 547	15, 488	19, 670	91, 073	12, 705	6, 117	14, 819	2, 502	13, 553	76, 254	10, 203	15, 948	21, 293	5,
	ountain	47, 417 31, 483	73, 259 26, 947	18, 755 19, 697	42, 292 28, 347	67, 715 24, 581	15, 635 12, 785	13, 296 9, 162	12, 176 5, 634	6, 212 6, 963	28, 996 19, 185	55, 539 18, 947	9, 423 5, 822	18, 421 12, 298	17,720	9,
	scifie	65, 965	54, 494	38, 714	61, 495	51, 220	12, 785 35, 209	26, 802	12, 338	10, 148	19, 185 34, 693	38, 882	25, 052	31, 272	15, 612	13, 13,
	ENGLAND:			-ASTER TELEVISION				ant and the prompt for		and the second of the second						-
	aine ew Hampshire	2,093 1,912	3, 885 1, 933	4,062 1,027	755 461	2, 555 428	1, 264 122	330	566	609	419	1,989	655	1,674	1,896	3,
	ermont	5, 826	1, 955	2, 513	401	428	1, 239	196 1, 110	196 1,045	41 398	265 3, 194	232 1,700	81 841	1, 647 2, 632	1, 701 3, 186	1,
м	assachusetts	3, 678	3, 653	1, 547	1, 448	2,091	747	661	716	209	787	1, 700	538	2, 032	2, 278	1,
	hode Island	241	348	145	140	235	95	47	100	36	93	135	59	148	213	'
	onnecticut LE ATLANTIC:	3, 239	3, 753	935	2, 062	2, 791	593	728	551	117	1, 334	2, 240	476	1, 905	1, 518	
	ew York	38, 239	31, 957	27, 283	28, 015	26, 586	00 404	0.700	# 100	0.017	10 000	10.40				1_
	ew Jersey	2, 810	2, 379	4, 282	1,750	1, 401	23, 494 2, 758	9, 709 839	7, 138 628	8, 317 1, 274	18, 306 911	19,448 773	20, 177 1, 484	19, 933 1, 899	12, 509 1, 606	7,
	ennsylvania	16, 739	18, 374	13, 514	11, 303	11, 308	7,602	3, 588	8, 535	2,068	7,715	7,773	5, 534	9,024	10,601	7,
	NORTH CENTRAL:											,		-,	,	"
	hio		48, 127	30, 621	81, 067	39, 995	19, 952	15, 909	16, 579	10, 581	15, 158	23, 416	9, 371	26, 736	24, 711	21,
	linois		33, 905 56, 518	19, 212 28, 628	20, 461	28, 550	14, 698	9,146	9,203	5, 445	11, 815	19, 347	9, 193	18, 742	14, 558	10,
	lichigan	44, 206	47, 448	47, 021	41, 857 81, 331	52, 605 38, 730	24, 797 42, 104	11, 969 15, 846	13, 559 16, 408	8, 472 13, 237	29,888	89, 047 22, 322	16, 325	16, 861	17,471	12,
	/isconsin	53, 354	50, 556	48, 190	46, 276	45, 528	42, 848	17, 230	16, 307	16, 450	29,046	29, 221	28, 867	28, 721 24, 308	25, 124 21, 335	18,
	NORTH CENTRAL	1		1		1							10,000		=1,000	,
	linnesota		82, 419	81, 145	95, 689	79, 891	78, 314	36, 219	23, 538	26, 780	59, 420	56, 353	51, 534	39, 561	26, 068	29,
	wa Lissouri		79, 188 66, 637	51, 630 25, 496	58, 970 47, 442	72, 639	43, 350	25, 628	27, 485	24, 250	83, 842	45, 154	19, 100	33, 183	34, 034	32,
	orth Dakota	22,739	13, 479	19, 814	20, 382	12, 913	17, 748	24, 663 8, 728	27, 566	10, 206	22, 779 11, 654	33, 294 7, 952	7,542	81, 982 11, 085	83, 343	17,
	outh Dakota		19, 341	22, 517	18, 141	17, 769	20, 241	8, 350	7, 263	10, 203	9,791	10,506	8,763	11,085	5, 527 8, 835	12,
	ebraska		31, 331	40, 333	23, 397	28, 139	82, 543	10, 825	12, 269	19, 545	12, 572	15,870	12,998	15,098	15,461	27,
	ansas	30, 885	35, 115	43, 188	26, 228	30, 979	33, 654	13, 246	13, 186	22, 787	12,982	17, 793	10, 867	17, 903	17, 322	
	elaware	229	507													
	Laryland	6, 139	8, 283	610 2, 177	64 4, 533	193 6, 121	548 1, 865	21	101	213	43	92	835	180	415	
	ist. of Columbia.				7,000	0, 141	1,000	1.777	1,655	325	2,756	4.466	1, 540	3. 383	3, 817	
	irginia	6, 939	30, 377	7, 537	4, 394	27, 560	3, 849	L, 402	2,951	1, 473	2,992	24,609	2, 376	3,947	5, 768	5,
	est Virginia	3, 307	5, 055	2, 565	1, 652	3, 106	625	613	820	263	1,039	2, 286	362	2, 268	2,769	2,
	orth Carolina	5, 601	23, 308	3, 524	4,606	22, 167	850	1, 163	1, 650	302	8, 443	20, 517	548	2, 158	2, 791	2,
	eorgia	2, 590 5, 739	10, 675 13, 705	338 586	2, 469 5, 142	10,601	203	434	745	51	2,035	9,856	152	555	819	
F	lorida		7, 989	1, 433	5, 802	13, 376 7, 755	210 1, 367	1, 107 1, 405	2,059	85 815	4, 035 4, 397	11.317	175	1,724	2, 388	
	SOUTH CENTRAL:							-,		0.0	4001	0,940	1,052	1, 645	2,063	
	entucky	1	54, 506	4, 543	4, 793	53, 704	3, 498	940	2, 506	1, 299	3, 853	51, 198	2, 199	1, 260	3, 308	2,
	ennessee labama		16, 398	2, 121	3, 552	15, 303	1, 255	1, 192	3, 395	308	2, 360	11,908	947	2, 872	4, 490	
	fississippi	7, 305	13, 744 12, 899	2, 825 5, 999	7, 270 4, 055	11, 365	2,678	3, 101	5, 261	275	4,169	6,104	2, 403	7, 682	7, 640	
	SOUTH CENTRAL:				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	404 101	5, 274	884	3, 657	620	8, 171	7,044	4, 654	4, 134	5, 855	1,
A	rkansas	5, 110	10, 389	8, 144	4, 651	5, 861	2, 885	2,060	2, 382	818	2, 591	6, 479	2,072	2, 519	3, 910	1
	ouisiana	1	11, 079	4, 329	7, 467	10, 114	4, 284	5, 615	3, 428	1, 546	1,852	6, 686	2,738	6,929	4, 393	1
	klahoma exas	23, 243 10, 283	20, 753 31, 038	7, 718	21, 715	19,049	5, 980	3, 745	8, 174	3, 162	17, 970	15, 875	2, 818	5, 273	4,878	4,
	stas	1.17, 2000	01,053	3, 504	8, 459	29, 691	2, 486	1, 876	8, 192	691	6, 583	26, 499	1, 795	3, 700	4, 539	1,
M	lontana	6, 939	3, 069	3, 804	5, 574	2, 899	1,948	1.669	538	1,070	8,905	2, 361	070	2 024		
	labo	7, 304	3, 734	3, 749	7,031	3, 272	2, 336	1,901	578	1,070	5, 130	2, 361	878 1,096	3, 034 2, 174	708	2,
	yoming	2, 352	1, 403	737	2, 145	1, 231	370	374	340	244	1,771	891	1,090	581	512	1 1
	elorado ew Mexico	7,423	11, 591	7, 789	6, 783	10, 828	5, 847	2, 699	2, 940	3, 671	4, 084	7, 888	2, 176	3, 339	3, 703	
	ew Mexico rizona	1, 620 710	2, 348 674	1, 247 224	1, 443 639	2, 014	975	392	495	302	1, 051	1, 519	673	569	829	
	tah	4, 554	4, 085	2, 145	4, 193	3, 775	180 1, 127	111 1,923	71 664		528	452		182	222	
N	evada	581	43	2	539	39	2	1, 823	604	359	2, 270 446	3, 111	768	2,284	974	1,
PACIFI								1		1	170	01	<sup>2</sup>	135	12	
	ashington	18,461	14, 526	7, 457	16, 787	13, 205	5, 583	10, 161	5, 179	3, 481	6, 576	8, 026	2, 102	11, 885	6, 500	5,
	regon	9, 671 37, 833	6, 503 33, 405	4, 842 26, 415	8.638	5, 590	3, 845	3,469	1,945	1, 518	5, 169	3, 645	2, 327	4, 502	2,858	2,
N. 8		wr,000	1 40, 400	40, 413	26, 120	32, 425	25, 772	13, 172	5, 214	5, 149	22,948	27, 211	20, 623	14,885	6. 254	5,

528

<sup>1</sup> All percentages based on total number of farms reporting "sales and (or) purchases."

### ORGANIZATIONS, WITH PER CENT DISTRIBUTION, BY DIVISIONS AND STATES: 1929, 1924, AND 1919

	FARMS	REPORT	ing—con	tinued								1	TRIBUT	ION 3				•						
	Pu	rchases-	-Continu	ied				F	arms r	eportiz	ıg saler	5		F	arms r	eportii	ng pur	chases						
Sales	and pure	hases	Purcha	ses and 1	no sales	IPID         IP29         IP24         IPID         IP29         IP24         IPID         IP29         IP24         IPID         IPID <th< th=""><th>Total</th><th>Storie - roomene - et in</th><th></th><th>ales an irchas</th><th></th><th></th><th>hases o sale</th><th></th><th></th></th<>										Total	Storie - roomene - et in		ales an irchas			hases o sale		
1929	1824	1919	1929	1924	1919	1929	1924	1919	1929	1924	1919	1929	1924	1919	1929	1924	1919	1929	1924	1919	1929	1824	1919	,
18, 272	259, 576	216, 305	132, 642	103, 169	113, 144	83. 9	89.6	81.9	89.7	26. 8	<b>34.</b> 6	50, 2	63.3	47. 2	49.8	36.7	52. 8	<b>33</b> . 7	26. 3	34. 6	16. 1	10.4	18. 1	
3, 078	3, 174 11, 301	1, 410. 6, 659	7,819	7, 613 13. 415	6, 109 11, 225	54.0 71.1	58.8 74.5	39.7 75.1	18.1 24.5	17. 2 21. 4	13, S 14, S	35, 9 46, 6	41.6 53.1	25. 9 60. 3	64.1 53.4	58. 4 46. 9	74.1 39.7	18.1 24.5	17. 2 21. 4	13.8 14.8	46.0	41. 2 25. 5	60, 3 24, 9	- 1
4, 136 0, 100	72,056	54, 185	45, 268	31, 143	29, 333	79.1	86.8	83.1	32.4	30.5	31.2	46.7	56.4	51.9	53. 3	43.6	48.1 58.5	32.4 39.6	30. 5 35. 5	31. 2 44. 1	20.9 10.0	13.2 7.4	16. 9 14. 4	- 1
7,659 7,922	116,268	125. 249 2, 977	32, 329 7, 944	24, 320 9, 020	40, 835 9, 253	90.0 78.3	92.6 91.0	85.6 50.7	39.6 21.6	35.5 11.8	44. 1 15, 9	50.4 56.7	57.1 79.1	41.5	49. 6 43. 3	42.9 20.9	55.5 65.2	21.6	11.8	15.9	21.7	9.0	49. 3	3
6, 117	14, 819 12, 176	2, 502	9, 831 5, 125	6, 474 5, 544	2, 783 3, 120	66.7 89.2	93, 4 92, 4	82.0 83.4	20,7 28,0	15.2 16.6	16. 2 33. 1	45.9 61.2	78.2	65.9 50.2	54.1 38.8	21.8 24.2	34.1 49.8	20.7 28.0	15.2	16.2 33.1	33, 3 10, 8	6.6 7.6	18, 0 16, 6	- 1
3, 296 9, 162	5,634	6, 963	3, 136	2, 366	6, 912	90.0	91.2	64.9	29.1	20.9	35.4	60.9	70.3	29,6	39. 1	29.7	70.4	29.1	20.9	35.4	10.0	8.8	35. 1	L
6. 802	12, 338	10, 148	4, 470	3, 274	3, 514	93.2	94.0	90.9	40.6	22.6	26.2	52.6	71.4	64.7	47.4	28.6	25. 3	40.6	22.6	26.2	6.8	6.0	9.1	! ==
336 196	566 196	609 41	1, 338 1, 451	1, 330 1, 505	2, 798 905	36.1 24.1	65.8 22.1	31. 1 11. 9	16.1 10.3	14.6 10.1	15.0	20.0	51.2 12.0	16.1	80. 0 86. 1	48.8 88.0	83. 9 92. 1	16.1 10.3	14.6 10.1	15.0	63. 9 75. 9	34.2 77.9	68, 9 88, 1	
1, 110	1,045	398	1, 522	2, 141	1, 274	73.9	56.2	49.3	19.1	21.4	15,8 13,5	54.8 21.4	34.8	33.5 34.8	45.2 78.6	65.2 62.4	66.5 65.2	19.1 18.0	21.4	15.8	26.1	43.8	50.7	
661 47	100	209	2, 230	1, 562 113	800 50	39.4 58.1	57.2 67.5	48, 3 65, 5	18.0 19.5	28.7	24.8	38.6	38.8	40.7	61.4	61.2	59, 3	19.5	28, 7	24.8	41.9	32.5	34. 5	5
728	551	117	1, 177	962	342	63.7	74.4	63. 4	22.5	14.7	12.5	41.2	59.7	50.9	58.8	40.3	49.1	22.5 25.4	14.7	12.5	36.3	25.6 16.8	36. 6	
9, 709 839	7,138	3, 317	10, 224	5.371 978	3, 789 1, 524	73, 3 62, 3	83, 2 58, 9	86.1 64.4	25.4 29,9	22.3 26.4	12, 2 29, 8	47.9 32.4	60.9 32.5	74.0 34.7	52.1 67.6	67.5	65.3	29.9	26.4	29.8	37. 7	41.1	35.€	6
3, 588	3, 535	2, 068	5, 436	7,066	5, 912	67.5	61.5	56.3	21.4	19.2	15.3	46.1	42.3	41.0	53.9	57.7	59.0	21.4	19.2 34.4	15.3	32.5	ł		
15, 909 9, 146	16, 579	10, 581	10, 827	8, 132 5, 355	10, 669	74.2 68.1	83.1 84,2	65.2 76.2	38,0 30,4	34.4 27.1	34.6 28.3	36.2 37.6	48.7 57.1	30.6 47.9	63. 8 62. 4	51.3 42.9	69.4 52.1	30.4	27.1	28.3	31. 9	15.8	23. 8	8
11, 969	13, 559	8,472	4, 892	3,912	3, 831 4, 917	89.5 70.9	93.1 81.6	86.6 89.5	25.6 35.8	24.0	29.6 28.2	63.9 35.0	69,1	57.0 61.4	36.1 65.0	30.9 53.0	43.0	25.6 35.8		1	10.5	1		
15, 846 17, 230	16, 408 18, 307	13, 237 16, 450		8, 716 5, 028	5, 342	86.7	90.1	88.9	32.3	82.3	34.1	54.4	57, 8	54.8	45.6	42.2	45. 2	32. 3		34. 1	18.3	9.9	11. :	1
36, 219 25, 628	23, 538 27, 485	26, 780		2, 528 6, 549	2, 831 8, 280	96.6 88.6	96.9 91.7	96.5 84.0	36.6 38.5	28.6	33.0	60.0 50.1	68.4 57.0	63.5	40.0 49.9	31.6 43.0	36.5 63.0	36. 6 38, 5			8,4 11.4	1	1	5 0
40, 620 24, 663			7, 319	5, 777	7,748	86.6	91.3	69.6	45.0	41.4	40.0	41.6	50.0	29.6	58.4	50.0	70.4	45.0 38,4			18.4	1 1		
8, 728 8, 350		10, 203		566 1, 572	2,376	89.0 86.5	95.8	88.0 89.9	38.4 39.8	36.8	51, 5 51, 0	51.3 46.7	59.0 54.3	36.5 38.9	48.7 53.3	41.0	61.1	39.8	87.6	51.0	13.5	8.1	10. 1	1
10, 825 13, 246	12, 269	19, 545	4, 273	3, 192 4, 136		84.6 84.9	89.8 88.2	80.7 77.9	39.1 42.9	39.2 37.6	48, 5 52, 8	45.4	50.7 50.7	82.2 25.2	54.6 58.0	49, 3 49, 3	67.8	\$9.1 42.9			15.4	1		
21, 240						27.9	38.1	89.8	9.2	19.9	34.9	18.8	18.1		15		45.1	9.2		1	72, 1		1	
1,777						73.8	73,9	85.7	28.9	20.0 9.7		44.9	53.9 81.0	31.5		46.1	29, 3 68, 5	28.9 20.2			26.2			
1, 402 613	1 .					63.3 50.0	90.7 61.4	51, 1 24, 4	20.2 18.5	16.2	10. 3	31.4	45. 2	14.1	68.6	54, 8	85.9	18.5	16.2	10. 3	50.0	) 38, (	3 75.	6
1, 163 434					1 .	82. 2 95. 3	1	24.1	20.8	4	- ( · ·	1	1			+	84, 4 55, 0	20, 8			4.7	0.1	39,1	9
1, 107	2,059	38	617	829	376	89, 3	97.6	35.8	19.2	15.0	6.0	70.1											1 64. : ) 4, i	
1, 40		1	-		1	96.0		1	18.4							1			}			1	5 23.	
94( 1, 195						93.7 67.9	93, 3	59.2	22.8	20.7	14.5	45.1	72.6	44.0	54.9	27.4	55.4	22.8	1			L 6.1 7 17.1	7 40.	
3, 10 88			1 .																			5 17.1		
2,06						-	85.3	91.8	40.3	22.1	25.9	50.7										14.		
5, 61	5 3, 428	3 1, 54	3 1, 314	1 966	5 45	85.0	91.3	99.0	63.9	30.9				1					8			) 8.1 5 8.1	7   1. 2   22,	
3, 74 1, 87						15																7 4.:	3 30.	
1,66																			)   15.	5   23, 1	3.1	7 12.		7
1,90 37	4 34(	0 24	4 20	7 17	2 367	91, 2	2 87.7	50.2	15.1	24.	2   33. 1	l   75.1	63.	5 17.	1    24.7	36.8						8 12. 6 6.	3 49. 6 24.	
2, 69 39											1   24. 1	2 64.	64.	7 54.0	0 🛛 35. 1	35.3	46.0	24.	2 21.	1 24, 5	2   10.1	9 i 14.	2 21.	. 8
11	1 7	1 7	7 7	1 15	1 44	90.0	3 77.6	80.4	15.1													9 7.	4 19. 6 47.	. 1
1, 92 9		4 35 8	1 1		0   1,018	92, 8					- E	1						1	0 18.	6	7.	2 9.	3	
10, 16	1 5, 17	9 3,48	1 1,72	4 1, 32	1 1, 874																		1 25. 0 20.	
3, 46			8 1,03	3 91	3 997																		1 20	

#### FARM FACILITIES

The statistics presented under the title "Farm Facilities" relate to farm motor equipment, farm home conveniences, and kind of road adjoining each individual farm. For brevity, the term "farm motor equipment" is used to include automobiles, motor trucks, tractors, electric motors for farm work, and stationary gas engines, and the term "farm home conveniences" is applied to telephones on farms and to electric light and water in houses of farm operators.

The data presented for 1930 relate to April 1, and for 1925 and 1920 to January 1. The 1930 figures, with the exception of those for "kind of road," are presented for the United States as a whole by color and by tenure of operator, while, for divisions and States presentation is made by tenure only for all items, with the exception of electric motors, stationary gas engines, and kind of road which are not shown either by color or tenure.

#### FARM MOTOR EQUIPMENT

In 1930 information was obtained for the first time for the number of electric motors for farm work and for stationary gas engines. The number of tractors was also obtained in both 1925 and 1920, and the number of automobiles and motor trucks, in 1920, but not in 1925.

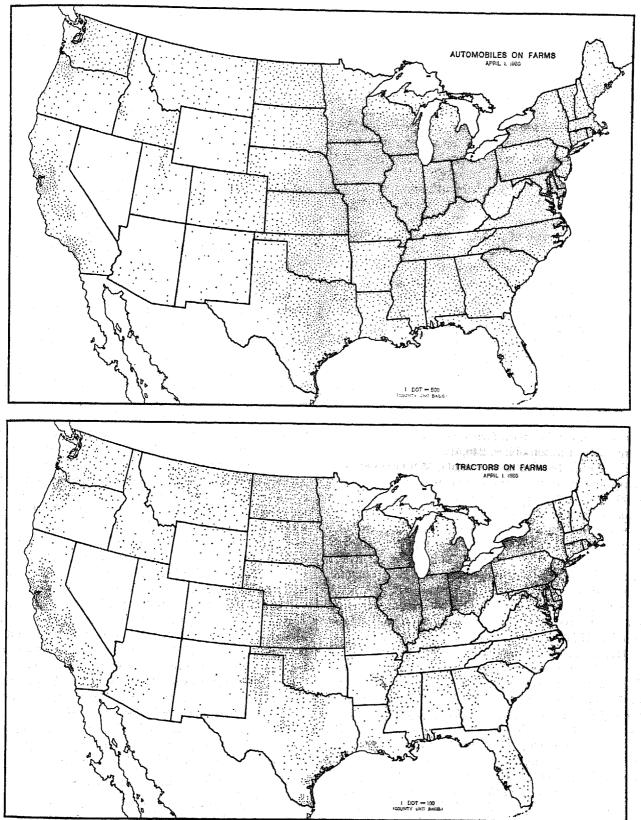
The increase in the percentage of farms reporting and in the number of automobiles, motor trucks, and tractors indicates the direction and extent to which motor power is being utilized on farms.

#### TABLE 14.—FARM MOTOR EQUIPMENT, 1930 AND 1920; BY COLOR AND TENURE OF OPERATOR, 1930; WITH TRACTORS, BY TENURE OF OPERATOR, 1925; FOR THE UNITED STATES

[Statistics for 1930 relate to April 1, and for 1925 and 1929 to January 1. Figures for divisions and States in Tables 17, 18, 19, and 20. "White" includes Mexicans and Hindus. "Colored" includes Negroes, Indians, Chinese, Japanese, and all other nonwhite races]

			TOTAL				ow	NERS			MAN	AGERS			TEN	IANTS		PER	CENT	
	Farm reporti			Num-	Num-	Farm reporti	s ng		Num-	Farr			Num- ber	Farm reporti		-	Num- ber	POR	ING TING	, BY
ITEM AND YEAR	Number	- 86	Number reported	per 1,000 of farms	ber per 1,000 of all	Number	Per cent of all owners <sup>1</sup>	N umber reported	per	Num- ber	Per cent of all managers <sup>1</sup>	Num- ber re- ported	per 1,000 of farms report- ing	Number		Number reported		Owners	Managers	Tenants
	ALL FARM OPERATORS 3, 650, 003 58, 6/4, 134, 675 1, 132, 8 657, 5 2, 350, 332 65, 9 2, 717, 880 1, 166, 4 84, 837 62, 3 46, 651 1, 839, 1 1, 264, 884 47, 5 1, 370, 144 1, 083 (979, 564 30, 7/2, 146, 263 1, 665, 1 143, 2 545, 535 13, 4 900, 3851, 665, 1 143, 2 608, 241 17, 6 648, 866 1, 066, 8 17, 151 30, 7 22, 762 1, 327, 2 210, 943 8, 3 228, 755 1, 040 131, 581 2, 9 139, 1691, 057, 9 21, 6 551, 457 13, 5 920, 0211, 080, 6 146, 3 550, 683 15, 4 395, 722 1, 081, 2 19, 029 34, 0 26, 032 1, 366, 0 281, 445 10, 6 298, 267 1, 059 473, 848 7, 4 505, 933 1, 667, 7 78, 4 319, 473 8, 8 340, 526 1, 066, 9 10, 683 26, 2 14, 086 1, 318, 5 143, 692 5, 8 151, 321 1, 053																			
Automobiles1930 1920	ALL FARM OPERATORS 3, 650, 003 58, 6/4, 134, 675 1, 132, 8 657, 5 2, 350, 232 65, 9 2, 717, 880 1, 156, 4 24, 837 62, 3 46, 651 1, 339, 1 1, 264, 834 47, 5 1, 370, 144 1, 0 545, 535 13, 4 900, 385 1, 665, 1 143, 2 550, 983 1, 654 2, 17, 151 30, 7 22, 763 1, 327, 2 219, 943 8, 3 228, 755 1, 0 131, 551 2, 135 134, 900, 285 1, 665, 1 143, 2 550, 983 1, 54 2, 150, 151 30, 7 22, 763 1, 327, 2 219, 943 8, 3 228, 755 1, 0 131, 551 2, 135 134, 900, 281, 105, 1 143, 2 550, 983 1, 54 3, 550, 983 1, 67, 7 79, 4 550, 983 1, 54 3, 550, 983 1, 67, 7 79, 4 550, 983 1, 67, 7 79, 4 319, 473 8, 8 340, 526 1, 665 9 10, 663 26, 2 14, 086 1, 318, 5 143, 692 5, 8 151, 321 1, 0 229, 532 8, 6 244, 083, 107, 7 79, 4 319, 473 8, 8 340, 526 1, 665, 9 10, 663 26, 2 14, 086 1, 318, 5 143, 692 5, 8 151, 321 1, 0 229, 532 8, 6 244, 083, 107, 7 79, 4 319, 473 8, 8 340, 526 1, 665, 9 10, 663 26, 2 14, 086 1, 318, 5 143, 692 5, 8 151, 321 1, 0 239, 532 8, 6 244, 083, 107, 7 79, 4 319, 473 8, 8 340, 526 1, 665, 9 10, 663 26, 2 14, 086 1, 318, 5 143, 692 5, 8 151, 321 1, 0 239, 532 8, 6 244, 083, 107, 7 79, 4 319, 473 8, 8 340, 526 1, 665, 9 10, 663 26, 2 14, 086 1, 318, 5 143, 692 5, 8 151, 321 1, 0 340, 526 1, 565 1, 56 1, 56 1, 56 1, 56 1, 56 1, 56 1, 56 1, 56 1, 56 1, 56 1, 57 1, 50 1, 5														1, 083. 3	64.4	1,0	84.7		
Motor trucks 1930	ALL FARM OPERATORS 3, 650, 003 58, 0 4, 134, 67511, 132, 8 657, 5 2, 350, 332 65, 9 2, 717, 880 1, 156, 4 34, 837 62, 3 46, 651 1, 339, 1 1, 264, 884 47, 5 1, 370, 144 1, 083, 1 970, 564 30, 772, 146, 36221, 064, 3 332, 9 833, 9 1 143, 5 13, 4 900, 3851, 665, 1 143, 2 6 138, 1091, 067, 9 21, 6 134, 550, 683 13, 4 954, 722 1, 064, 8 17, 151 30, 7 22, 762 1, 327, 2 210, 943 8, 3 228, 755 1, 040, 131, 551 2, 6 138, 1991, 067, 9 21, 6 13, 550, 683 13, 4 954, 722 1, 061, 2 19, 029 34, 0 26, 032 1, 366, 0 281, 445 10, 6 298, 2671, 059, 473, 548 7, 4 505, 9331, 067, 7 79, 4 319, 473 8, 8 340, 526 1, 066, 9 10, 683 26, 2 14, 086 1, 318, 5 143, 692 5, 8 151, 321 1, 053.															1, 040. 1	72.0	2.0	26.0	
1920 Tractors1930 1925	851, 457 473, 848	13.5	920,021	1,080. 6	146.3 79.4	550, 983 319, 473	15.4 8.8	895, 722 340, 526	1, 081. 2 1, 065. 9	19, 029 10, 683	34. 0 26. 2	26, 032 14, 086	1, 368. 0 1, 318. 5	281, 445 143, 692	10.6 5.8	298, 267 151, 321	1, 059. 8 1, 053. 1	64.7 67.4		88.1 80.8
1920 Electric motors1930 Stationary gas	229, 332 256, 663	3.0 4.1				205, 170	5.7	303, 695	1, 480. 2	9, 533	17. 1	20, 708	2, 172. 2	41, 960	1.6	61, 788	1, 472. 5	79.9	8.7	16. 3
engines1930	945, 000	15. 0	1, 131, 108	1, 196. 9	179. 9	654, 011	18.3	788,000	1, 204. 9	18, 951	25. 0	20, 298	1, 454. 6	277, 038	10.4	322, 809	1, 165. 2	69.2	1.5	29, 3
	473, 848 7. 4 505, 933 1, 067. 7 79. 4 319, 473 8. 8 340, 526 1, 065. 9 10, 683 26. 2 14, 086 1, 318. 5 143, 692 5. 8 151, 321 1, 053. 1 229, 332 3. 6 240, 083 1, 073. 6 38. 2 1 205, 170 5. 7 303, 695 1, 480. 2 9, 533 17. 1 20, 708 2, 172. 2 41, 960 1. 6 01, 788 1, 472. 4 1,																			
Automobiles	3, 452, 494 829, 816 846, 634 254, 433	15.8		1, 139. 2 1, 065. 2 1, 080. 4 1, 506. 5	170.3	549,023	16.3	2, 655, 611 640, 583 593, 604 302, 822	1, 159. 6 1, 067. 1 1, 081. 2 1, 480. 7	32, 857 15, 790 18, 244 8, 805	62. 3 29. 9 34. 6 16. 7	44, 311 21, 206 25, 130 19, 764	1, 348. 6 1, 348. 0 1, 877. 4 2, 244. 6	1, 129, 590 213, 418 279, 367 41, 117	10.9 14.8	221,787 295,989	1, 091. 8 1, 039. 2 1, 059. 5 1, 477. 0	66.3 72.4 64.8 80.4	1.0 1.9 2.2 3.5	25,7 33,0
engines	941, 905	17. 5	l, 127, 695	1, 197. 2	209. 9	652, 222	19.4	786, 056	1, 205. 2	13, 635	25, 8	19, 928	1, 461. 5	276, 048	14. 1	321, 711	1, 165, 4	69. 2	1,4	29, 3
				*****	<u></u>			COL	ORED P	ARM OP	ERAT	ORS					·		•	<u> </u>
Automobiles	15, 819 4, 823 2, 230	1.7 0.1 0.3	7 16, 804 5 5, 295 7 2, 877	1,019.9 1,062.6 1,098.1 1,290.1	18.3 5.8 3.1	7,933 1,960 656	3.9 1.0 0.9	8, 287 2, 118 871	1, 022. 9 1, 044. 4 1, 080. ( 1, 324. 7	1, 861 788 725	43.6	1,556	1, 181. 8 1, 148. 8 1, 149. 0 1, 296. 7	6, 525 2, 078	0.9	6,968 2,278	1, 011. 7 31, 067. 9 31, 096. 2 1, 257. 4	50.1 40.0	16.3	41.2
engines1930	8,095	0.1	3, 41	1, 102. 7	8.7	1,786	0.5	1,950	1, 090. (	810	10. 1	361	5 1, 155. 1	990	0.1	l 1,09	3 1, 109. 1	57.8	10, 2	82.0

<sup>1</sup> Based on all farms in each color class, see Chapter III.



Automobiles.—In 1930 there were 3,650,003 farms, or 58 per cent of all farms in the United States, which reported automobiles as compared with 1,979,564 farms, or 30.7 per cent in 1920. The number of automobiles on farms was 4,134,675 for 1930 and 2,146,362 for 1920, representing an increase of 92.6 per cent. Figures are not available on the number of farms which reported more than one automobile, but there were 1,133 automobiles for every 1,000 farms reporting automobiles in 1930 against 1,084 per 1,000 farms in 1920.

The proportion of all farms reporting automobiles in 1930 ranged from 25.7 per cent in Louisiana to 91.8 per cent in Nebraska, while in 1920 the range was from 5.5 per cent in Mississippi to 75.6 per cent in Nebraska. The three divisions comprising the South (South Atlantic, East South Central, and West South Central) had the smallest proportion of farms reporting automobiles for the two census years, but showed the greatest relative increase in the number of farms reporting for the 10-year period. The greatest numerical increase in farms reporting was 329,939 in the West South Central division, while the greatest numerical increase in the number of automobiles. 382,546. occurred in the West North Central division. Texas led all States in both farms reporting and in the number of automobiles, with 280,758 and 300,176, respectively; Iowa was second in both farms reporting, 193,810, and in number of automobiles, 240,512.

For the United States as a whole, 65.9 per cent of all farms operated by owners reported automobiles in 1930 against 47.5 per cent of all farms operated by tenants. One interesting feature developed in the presentation of the data by tenure of operator in Table 17 is that the proportion of tenants reporting automobiles was higher than for owners in all geographic divisions except the Southern divisions, and New England, the proportion of tenants and owners in the latter being nearly the same. The South has this great effect on the United States figures by reason of its large number of farms and high proportion of tenancy.

Motor trucks.—The number of motor trucks on farms, for the country as a whole, increased from 139,169 in 1920 to 900,385 in 1930, resulting in a gain of 547 per cent, while the number of farms reporting increased from 131,551 to 845,335 and the percentage of all farms reporting from 2 to 13.4. Among the States the proportion of farms reporting motor trucks in 1930 varied from 2.7 per cent in Kentucky to 49.3 per cent in New Jersey. In 1930 New York, with 58,974 trucks on 54,084 farms, led in both the number of trucks and in the number of farms reporting.

The percentage of all owner-operated farms reporting motor trucks for the United States for 1930 was 17 per cent, of all manager-operated farms 30.7 per cent, and of all tenant-operated farms 8.3 per cent.

**Tractors.**—In 1930 there were 920,021 tractors reported on farms in the United States as compared with 505,933 in 1925 and 246,083 in 1920. The percentage of increase from 1920 to 1925 was 105.6, from 1925 to 1930 was 81.8, and from 1920 to 1930 was 273.9 per cent. The number of farms reporting was 851,457, in 1930, or 13.5 per cent of all farms; 473,848, in 1925, or 7.4 per cent; and 229,332, in 1920, or 3.6 per cent. The highest proportion of farms reporting tractors in 1930 and 1925 was 43.8 and 20.9 per cent, respectively, in North Dakota; and in 1920 was 16.3 per cent in South Dakota. Illinois was the leading State in the total number and in farms reporting tractors in 1930, with 69,628 tractors on 66,172 farms.

Table 19 presents the number of tractors with farms reporting, by tenure of operator, by divisions and States. For the United States 15.4 per cent of all owners reported tractors in 1930, against 10.6 per cent of all tenants, the greater percentage for owners is entirely due to the three Southern divisions with their high proportion of tenancy.

Electric motors for farm work.-In 1930, the only year for which data on this subject are available. 386.191 electric motors used for farm work were reported on 256,663 farms, or 4.1 per cent of all farms. For every 1,000 farms reporting electric motors, there were 1.505 motors, averaging about 1.5 motors per farm. As in the case of automobiles, figures are not available on the number of farms reporting more than one electric motor. For the United States as a whole, electric motors were reported on 5.7 per cent of all owner-operated farms, on 17.1 per cent of all manager-operated farms, and on 1.6 per cent of all tenant-operated farms. The percentage for white owners was 6.1 against 0.3 for colored owners. California, with 32.2, had the highest percentage of farms reporting electric motors. This State also led in both the number of farms reporting, 43,676, and in the number of electric motors, 66,260.

Stationary gas engines.—In 1930, the first census to obtain such data, 1,131,108 stationary gas engines were reported on 945,000 farms, or 15 per cent of all farms. The proportion of all owners reporting stationary gas engines was 18.3 per cent, of all managers 25 per cent, and of all tenants 10.4 per cent. Minnesota, with 50.4, had the highest percentage of farms reporting stationary gas engines. Iowa was the leading State both in the number and in farms reporting stationary gas engines with 114,977 on 94,772 farms.

#### FARM HOME CONVENIENCES

Information concerning farm home conveniences, first secured in 1920, was obtained again in 1930. The inquiries for telephones and water piped into operator's dwelling were similar for the two years, and, in 1930 an additional question was asked concerning

water piped into bathrooms. The inquiry relating to lights in the operator's dwelling was restricted to electricity in 1930, whereas in 1920 it included both gas and electric lights; hence, the figures presented for the two years are not strictly comparable.

The data for 1930 are presented for the United States by color and tenure of operator whereas for divisions and States the figures are presented by tenure of operator only.

Telephones.—In 1930 the number of farms reporting telephones totaled 2,139,194, or 34 per cent of all farms, which was a decrease of 14.4 per cent from 2,498,493 or 38.7 per cent of all farms reporting in 1920. Decreases in the percentage of farms reporting telephones between 1920 and 1930 occurred in 30 States. Iowa, with 84.2 per cent of all its farms reporting telephones in 1930 and 86.1 per cent in 1920, ranked first among all the States. The lowest percentage of farms reporting telephones in 1930 was 3.8 in Louisiana, while in 1920 the lowest was 5.7 in South Carolina.

In the 1930 census, telephones were reported by 43.2 per cent of all owners, 50.8 per cent of all managers, and 21.4 per cent of all tenants. Except in Wisconsin the percentage of telephones was higher for owners than for tenants.

Dwellings lighted by electricity.—In 1930 there were 841,310 or 13.4 per cent of all farms, reporting the operator's dwelling lighted by electricity as against 452,620 or 7 per cent of all farms reporting dwellings lighted by gas or electricity in 1920. With the exception of West Virginia and Alabama, the percentage of farms reporting the one item was greater in 1930 than for the two items in 1920. California, with 63.3, led the States in the percentage of dwellings lighted by electricity.

Water piped into dwelling.—The question regarding water piped into dwelling was answered in the affirmative by 994,202 or 15.8 per cent of all operators in 1930, as against 643,899 or 10 per cent of all operators in 1920. Massachusetts had the highest percentage, 74.5, of farms reporting. Relatively, a higher proportion of owners reported water piped into the dwellings than of tenants, the percentages for the United States as a whole being 21.8 and 7.2, respectively.

Water piped into bathroom.-This question was asked for the first time in 1930. Of the 994,202 operators reporting water piped into dwellings, 531.248 or 53.4 per cent also reported water piped into bathroom. Of those reporting water piped into dwellings, the following percentages reported water piped into bathrooms: Owners, 55.3 per cent; managers, 75.9 per cent; and tenants, 42.8 per cent. The percentage of all operators reporting water piped into bathroom was 8.4, of all owners 12.1, of all managers 33, and of all tenants 3.1. The wide difference between the farms reporting "water piped into dwelling," and those reporting "water piped into bathroom," may be partly due to the inclusion of hand-operated pumps without accompanying storage tanks, installed in houses for pumping water direct from wells.

TABLE 15.—TELEPHONES, ELECTRIC LIGHT,<sup>1</sup> AND WATER PIPED INTO DWELLINGS ON FARMS, 1930 AND 1920; AND BY COLOR AND TENURE OF OPERATOR, 1930; FOR THE UNITED STATES

[Statistics for 1930 relate to April 1, and for 1925 and 1920 to January 1. Figures for divisions and States in Tables 21, 22, and 23. "White" includes Mexicans and Hindus. "Colored" includes Negroes, Indians, Chinese, Japanese, and all other nonwhite races]

		TOTAL.			OWNERS,	1930	MANAGEI	35, 1930	TENANTS	, 1930		ENT DIS	
ITEM	Farms r	eporting	Per cer fari	nt of all	Number		Number	Per cent of	Number	Per cent of		OF FAR: NG, BYT	
	1930	1920	1930	1920	reporting	all own- ers <sup>2</sup>	report- ing	all man- agers <sup>2</sup>	report- ing	all ten- ants <sup>2</sup>	Own- ers	Man- agers	Ten- ants
			2		ALL	FARM O	PERATORS						
Telephones. Dwellings lighted by electricity 1 Water piped into dwellings. Water piped into bathrooms	2, 139, 194 841, 310 994, 202 531, 248	2, 498, 493 452, 620 643, 899	34. 0 13. 4 15. 8 8. 4	38.7 7.0 10.0	1, 540, 313 693, 083 779, 327 431, 340	43. 2 19. 4 21. 8 12. 1	28, 399 19, 647 24, 300 18, 432	50, 8 35, 2 43, 5 33, 0	570, 482 128, 580 190, 575 81, 476	21.4 4.8 7.2 3.1	72, 0 82, 4 78, 4 81, 2	1.3 2.3 2.4 3.5	$26.7 \\ 15.3 \\ 19.2 \\ 15.3 \\ $
,		·			WHI	FE FARM	OPERATO)	18		۹			
Telephones. Dwellings lighted by electricity 1 Water piped into dwellings Water piped into bathrooms	2, 130, 755 834, 220 987, 124 526, 949		39.7 15.5 18.4 9.8		1, 535, 724 690, 089 776, 919 429, 903	45.6 20.5 23.1 12.8	27, 767 18, 263 22, 671 17, 199	52, 6 34, 6 43, 0 32, 6	567, 264 125, 868 187, 534 79, 847	29.0 6.4 9.6 4.1	72. 1 82. 7 78. 7 81. 6	1, 3 2, 2 2, 3 3, 3	26, 6 15, 1 19, 0 15, 2
a,					COLOR	ED FARM	OPERATO	RS					
Telephones Dwellings lighted by electricity 1 Water piped into dwellings Water piped into bathrooms	8, 439 7, 090 7, 078 4, 299		0, 9 0, 8 0, 8 0, 5		4,589 2,904 2,408 1,437	2.3 1.5 1.2 0.7	632 1, 384 1, 629 1, 233	20. 2 44. 3 52. 2 39. 5	3, 218 2, 712 3, 041 1, 629	0, 5 0, 4 0, 4 0, 2		7.5 19.5 23.0 28.7	38, 1 38, 3 43, 0 37, 9

1 Gas or electricity for 1920.

<sup>2</sup> Based on all farms in each color class.

#### KIND OF ROAD ADJOINING FARMS

The information relating to kind of road adjoining each individual farm was first called for in the census of 1925 and was obtained again in the census of 1930. The question was identical in the two census years. But the explanatory note accompanying the question differed for the two years. Therefore, in presenting the figures it has been necessary to make several combinations in the 1930 data to obtain figures more nearly comparable with those for 1925.

In both years a number of roads were reported by trade names or names peculiar to a locality, such as wood-block, shell, tar-bound, settlement road, pike, post road, or State highway. In 1930, those capable of classification were grouped with the type of roads to which they were most similar; for example, wood-block was included with brick, shell with gravel, etc., while settlement roads, post roads, pikes, and State highways, had to be grouped with "all other (including not reported)." A slightly different disposition was made in 1925 which may partly explain the decrease in the number and in the percentage of farms located on macadam roads and the heavy increase in the number of farms located on gravel roads.

In many sections of the country oil-bound macadam roads are locally called macadam without the qualifying term "oil-bound." The returns indicated that a number of enumerators failed to distinguish between oil-bound macadam and water-bound macadam roads, hence these have been combined for 1930 under one class designated as "macadam." Other differences appeared in classifying "improved dirt" and "unimproved dirt" roads.

With road-improvement programs throughout all sections of the country during the 5-year period, 1925 to 1930, it is only natural to assume that the proportion of farms on improved roads has materially increased. For 1930 there were 1,873,295 farms or 29.8

per cent of the entire number which adjoined roads of the quality of gravel or better, while in 1925 only 1,419,018 or 22.3 per cent of all farms were so reported. Considerably over half of the farms are still located on unsurfaced roads and 36.3 per cent were still reported on unimproved dirt roads in 1930. The following divisions and States led in the proportion of all their farms on various type roads: Concrete, Middle Atlantic with 9.9 per cent and Delaware with 20.1 per cent; brick, East North Central with 0.9 per cent and Ohio with 3.2 per cent; asphalt, Pacific with 3.2 per cent and Florida with 11.7 per cent; macadam, Middle Atlantic with 18.1 per cent and Massachusetts with 30 per cent; gravel, East North Central with 40.9 per cent and Indiana with 58.3 per cent; sand-clay. South Atlantic with 10.4 per cent and South Carolina with 16.1 per cent; improved dirt, West North Central with 38.1 per cent and Nebraska with 55.4 per cent; unimproved dirt, Middle Atlantic with 45 per cent and West Virginia with 62.4 per cent.

TABLE 16.—KIND OF ROAD—FARMS CLASSIFIED BY KIND OF ROAD ON WHICH LOCATED, WITH PER CENT DISTRIBUTION, FOR THE UNITED STATES: 1930 AND 1925

[Statistics for 1930 relate to April 1, and for 1925 to January 1. Figures for divisions and States in Table 24]

	1930		1925	
EIND OF BOAD	Number of farms	Per cent of all farms	Number of farms	Per cent of all farms
Total	6, 288, 648	100. 0	6, 371, 640	100.
ocated on-				*********
Concrete read	202, 594	3.2	} 156. 434	2.
Brick road Asphalt road	13, 180 72, 011	$0.2 \\ 1.1$	ര്	
Macadam road	306, 397	4.9	316, 527	5
Gravel road	1, 279, 113	20, 3	946, 057	14
Sand-clay road	156, 531	2.5	1, 998, 704	31
Improved dirt road Unimproved dirt road	1,638,954	26.1		43
All other (including not re-	2, 279, 989	36.3	2, 747, 782	30
ported)	339, 879	5.4	206, 186	3

<sup>1</sup> Included with "All other."

TABLE 17.—AUTOMOBILES ON FARMS—FARMS REPORTING AND NUMBER OF AUTOMOBILES, 1930 AND 1920; BY TENURE OF OPERATOR, 1930; BY DIVISIONS AND STATES

[Statistics for 1930 relate to April 1, and for 1920 to January 1]

				T(	)TAL				ow.	NERS,	1930	MAN	AGERS,	1930	TEN.	ANTS, 1	1930
DIVISION AND STATE	F	arms repoi	ting			ber of	Num	ber of obiles	Farn report			Far. repor		Num-	Farm reporti		N
	Nun	nber		ent of irms	auton	lobiles	per 1, all fa		Number	Per cent of all	Number of auto- mobiles	Num- ber	Per cent of all	ber of auto- mo- biles	Number	Per cent of all	Num- ber of auto- mobiles
	1980_	1920	1930	1920	1930	1920	1930	1920		own- ers			man- agers			ten- ants	
	3, 650, 003	1, 979, 564	58.0	30.7	4, 134, 675	2, 146, 362	657. 5	832, 9	2. 350, 332	65.9	2, 717, 880	84, 837	62.5	46, 651	1, 264, 884	47.5	1, 370, 144
GEOGRAPHIC DIVISIONS: New England	75, 566	40, 209	60.5	25.7	89, 287	44.754		807.0		]		1 100					
Middle Atlantic	254, 084	149, 599	71.1	35.2	316, 509	44, 754 164, 939	714, 7 885, 1	285.9 388.0	69, 274 211, 778	60.7 79.8	81, 499 263, 936	1, 588 3, 875	54.1 64.0	2, 337	4, 704 38, 431	59.7 73.8	5, 431 46, 852
East North Central.	770, 108	513,052	79.7	47.3	876, 667	550, 858	907.1	507.8	544, 296	78.4	625,775	6, 057	70.2	7, 770	219, 755	83, 2	243, 122
West North Central.	920, 814	631, 631	82.8	57.6	1, 075, 578	693, 082	966. 6	631, 8	542, 728	82,1	651,041	5, 613	75.1	6, 917	872, 473	83.9	417, 620
South Atlantic	445, 454	187, 236	42.1	16.2	481, 693	200, 103	455.1	172.7	279, 533	51.8	308, 532	4, 484	50.0	6, 012	161, 437	31.7	167, 149
East South Central West South Central.	820, 640 503, 548	81, 830 173, 609	30, 2 45, 6	7.8	335,003	86, 141	315.4	81.9	189,745	40.8	201, 527	1, 518	52.6	1,865	129, 377	21.8	131, 611
Mountain	163, 303	91,098	67.7	37.6	530, 641	184, 275 98, 727	488.5 758.4	185.0 404.4	239,978 118,427	58.5 66.2	263, 491 133, 260	3, 361 2, 204	61.0 61.4	4. 330	260, 209	37.9	208, 820 46, 800
Pacific	196, 486	110,640	75.1	47.2	240, 277	123, 533	918.0	527.5	154, 573	75,2	188, 819	6, 137	62.3	8, 739	35, 776	77.3	40, 500
NEW ENGLAND:																	
Maine.	23, 015	11,686	59.0	24.2	26, 227	12, 569	672, 4	260.6	21, 823	59.4	24, 843	252	50.1	321	940	53.6	1,063
New Hampshire	9, 288 15, 825	4,797 7,611	62, 3 63, 6	23.4	11,079	5, 263 8, 172	743.3 747.9	256.4 281.1	8,587	62.4	10, 183	210 267	59.2 55.6	331 345	491	61.7	565
Massachusetts	10, 820	8, 181	57.6	25.6	18, 620	9,309	747.9 689.0	281.1	14,002 18,459	63.6 58.0	16, 492 15, 982	267 486	55.6 50.7	345	1, 556	54.9	1, 783 915
Rhode Island	2,055	1, 198	61.9	29, 3	2, 569	1, 395	773.3	341.7	1,754	62.5	2, 188	55	55.6	83	246	59.3	298
Connecticut	10, 646	6, 796	61.9	30.0	13, 154	8,046	765.0	355.2	9, 649	61.9	11,811	318	58.8	516	679	63.6	827
MIDDLE ATLANTIC:	1									1	1						
New York	115,010	68,003	72.0	35.2	141, 916	74, 753	888.1	386.9	97, 703	71.8	120,473	1, 691	63.8	1 -	15, 616	74.0	18,940
New Jersey	17, 782 121, 292	11, 781 09, 865	70.1	39.5	22, 371 152, 222	13, 695 76, 491	881.5 882.9	461.1	14, 347 99, 728	69.1 70.1	17,919	432 1,752	65.6		3,003 19,812	76.1	3, 711 24, 201
EAST NORTH CENTRAL:	161, 282	09,000	10. 8	04.0	104, 222	10, 491	004.9	3/0.2	99,725	10.1	125, 544	1,102	03.9	2, 477	10,014	12.0	27, 401
Ohio	172,078	119, 511	78, 5	48.6	201, 552	128, 384	919.1	500.1	123,020	77.0	145,926	1, 235	67.0	1,647	47, 823	83,0	53, 979
Indiana	141, 374	95, 238	77.9	46.4	154, 556	102, 122	851.2	497.9	96,005	76.5	105, 805	1.020	69.0	4 4 4	44, 349	81.3	47, 506
Illinois	170, 606	125, 586	79, 5	52.9	192, 873	139,090	899.2	586.4	91, 340	76.2	105, 366	1, 535	72.3		77, 781	84.0	\$5, 590
Michigan	133, 565	78, 919	78.9	40.2	150, 922	82, 437	891.1	419.6	111, 445	78.7	126, 029	1,041	68.0		21,079	80.5	23, 488
Wisconsin	152, 485	93, 798	83.9	49.6	176, 764	98, 825	972.5	522.1	122, 488	83. 3	142, 649	1, 226	73.9	1, 556	28, 773	86.9	32, 559
Minnesota	159, 372	101, 847	86.0	57.1	185, 717	107, 824	1,002.5	604.1	106,908	84.5	126, 551	767	78.3	974	51, 097	89.7	58, 192
Iowa	193, 810	156, 081	90.2	73.1	240, 512		1,119.0	831.9	98, 271	88.3	127, 810	1,622	81.9	1, 969	93, 917	92,4	110, 733
Missouri	164, 087	81, 392	64.1	30.9	176, 466	86, 229	689.5	327.9	110, 943	67.1	120, 588	938	60.7	1,088	52, 206	58.6	54, 790
North Dakota	67, 496	44,010	86.6	56.6	78, 798	47, 711	1,010.0	614.1	43, 649	87.1	52, 835	355	75, 5	461	23, 492	85.7	26, 602
South Dakota	71,965	51, 780 94, 004	86.5	69.4 75.6	81, 923	58, 202 104, 453	985.2 1,090.3	779.8 839.5	28, 960 61, 351	85.4 91.0	46,013	338 855	74.4	1.077	32, 667 56, 624	88.1 92.8	35, 520 63, 402
Kansas	145, 224	102, 517	91.8 87.5	62.0	141, 144	111, 055	1,030.0	671.9	82,616	87.2	101,079	738	77.4	958	61.870	88.0	68, 981
SOUTH ATLANTIC:		10-,011		0	11.1,010	114000	1,000.0			1	101,010		1			1	
Delaware	7, 498	3, 693	77.2	36.4	8, 724	4, 014	\$98.7	395, 9	4, 865	77.7	5, 741	100	60.6	132	2, 533	77. 2	2,851
Maryland	80, 519	16,049	70.6	83.5	37, 972	17, 702	878.9	369.5	21, 692	70.4	27, 093	635	67.6	1,010	8, 192		9,869
District of Columbia.	45	50	43, 3	24.5	60	58	576.9	284.3	22	37.3	28	10 935	47.6	15	13	54. 2 36. 9	17 18, 567
Virginia West Virginia	80, 298 33, 434	28, 557	47.1	15.8	88, 463	30, 959	518.5	188.2	61, 639 28, 709	43.1	68, 561 31, 884	381	52.8	460	4, 844	28.3	4, 634
North Carolina	125, 196	41, 839	44.8	15.5	132, 876	44, 207	475, 1	163.9	74, 923	53.0	81, 254	395	61.0	516	49, 878	36.2	51, 106
South Carolina	59, 029	30, 709	37.4	15.9	61, 754	32, 812	391.0	170.3	28, 479	\$2.3	30, 622	400	57.7	491	30, 150	29, 3	30, 641
Georgia	85, 276	47, 173	33.4	15.2	88, 479	49, 841	\$46, 2	160.4	40, 244	50.4		774	55.0	909	44. 258	25.4	44, 947
Florida	24, 161	8, 761	41.0	16.2	26, 387	9, 383	447.5	173.7	18, 960	48.1	20, 728	854	80.1	1, 144	4, 347	26. 0	4, 517
EAST SOUTH CENTRAL: Kentucky	82,034	28, 532	33. 3	10.5	86, 784	30, 146	352, 1	111.4	56, 194	35.7	60, 114	329	48.7	415	25, 511	28.9	26, 255
Tennessee	84,067	20,002		8.9	89,022	23, 550	362.4	93.2	54, 887	41.7		298	48.8		28, 882		29,659
Alaoama	71, 167	15,906						64.8	89, 727	44.0		273	45.3	332	31, 167	18.7	21, 591
Mississippi	83, 372	14, 946					273.7	58.3	38, 937	45.3	40, 708	618	61. 9	749	43, 817	19.4	44, 106
WEST SOUTH CENTRAL:				.						0.	-	0.00	-	1	28, 975	19,0	29, 414
Arkansas	63, 800	15,401	26.3	6.6	1 T T T T		272, 1 266, 9	70.5	34, 462 22, 675	38.7		363	57.3 52.9		18, 389		18, 598
Louisiana Oklahoma	41,453	9,494 49,017					825.2	271.2		69.7		1	1	1 .	-		65, 854
Texas	280, 758	99, 697				1 .		241.5	128, 658	67.5	1	1					154, 954
MOUNTAIN;			1				1										
Montana	84, 477	20, 749	72.6				803, 6	382.7	25, 767	72.9		821					9,010
Idaho.	. 30, 776	16, 651					815.0		22,463	78.6							8, 613 2, 795
Wyoming Colorado	. 11, 462 45, 546	6, 180					800,9 871,6		£1 ·			547	65.3	4			18, 224
New Mexico		28, 350							10, 231				59.6				
Arizona		4, 534			1	1						374			1, 662	71.8	1,942
Utah	16, 343	8, 246					647.1	837.3	14, 394	61.0	15, 510						
Nevada	2, 397	1, 436			2, 921	1, 717	848.6	542, 8	1, 964	70.5	2, 401	118	52, 0	149	815	70.8	871
PACIFIC:			12.			-	- 100	1.00	10 00-		18 100	728	58.8	864	9, 210	76.3	10, 025
Washington		27, 626						- i - '		1							
Oregon															1 7 7		
California							1,008.6	8 007.8	80, 353	77. (	105, 407	4, 861	62.6	7,172	18, 992	77.8	24

# TABLE 18.-MOTOR TRUCKS ON FARMS-FARMS REPORTING AND NUMBER OF TRUCKS, 1930 AND 1920;BY TENURE OF OPERATOR, 1930; BY DIVISIONS AND STATES

				ŦC	TAL				ow	NERS, J	830	MAN	AGERS,	1930	TEN	ANTS,	1930
	F	arms repa	arting					ber of	Farm report			Far repor			Fari repor		
DIVISION AND STATE	Nun	abe <b>r</b> .	Per el all fa		Number tru		truck 1,000 far			Per	Number of motor trucks	Num-	Per cent	Num- ber of motor trucks	Num-	Per cent	Num ber of motor
	1930	1990	1930	1920	1930	1990	1930	1920	Number	of all owners		ber	of all man- agers	LILICKS	ber	of all ten- ants	truck
United States	845, 835	131, 551	13. 4	2.0	900, 355	139, 169	143. 2	21.6	608, 241	17.0	648, 868	17, 151	30.7	22, 762	219, 943	8.3	228, 75
GEOGRAPHIC DIVISIONS:															0.000		
New England	33, 328	7,284	26.7	4.7	37, 972	8,119	304.0	51.9	30, 029 91, 256	26.3 30.5	33, 951 100, 163	1, 244 2, 468	42.4	1,738 3,359	2,055	26.1	2,28
Middle Atlantic East North Central.	109, 756 189, 040	20,472	30.7	4.8	120, 789	22,011	337, 8	51.8	136,675	30. 5 19. 7	143, 488	2,405	30, 9	3,464	49,700	30.6 18.8	17,26
West North Central.	174,764	24, 942 32, 331	19.6	23	198, 172 180, 857	26,074 33,375	205.0 162.5	24.0 30.4	112,969	17, 1	117, 231	1, 515	20.3	1,824	60, 280	13.6	61, 80
South Atlantic	\$8,019	14,716	8.3	1.3	94, 946	15,787	89.7	13.6	66, 840	12,4	71,932	2,471	27.6	3,455	18,708	3.7	19,55
East South Central.	43, 234	4, 869	4.1	0.5	45, 568	5,153	42.9	4.9	31,092	6.7	32, 849	721	25.0	922	11, 421	1,9	11,79
West South Central	92, 300	8,960	8.4	0.9	96, 791	9,455	87.7	9.5	54, 369	13.2	57, 364	1, 565	28.4	1,959	36, 366	5.3	37, 46
Mountain	32, 488	7, 168	21.8	29	55, 742	7,589	231.0	31.1	38, 541	21.5	40, 865	1,077	30.0	1,398	12, 870	21.9	13, 47
Pacifie	62, 406	10, 809	23. 8	4.6	69, 548	11,606	265.7	49.6	46, 470	22.6	51, 025	3, 425	34.8	4, 643	12, 511	27.0	13, 88
NEW ENGLAND:				1													
Maine	9, 879	1,061	25.3	2.2	10, 781	1,120	276.4	23.2	9, 297	25.3	10, 113	176	35.0	234	406	23.1	43
New Hampshire	4, 051	0(13 6713	27.2	3.2	4, 539	717	304.5	34.9	3,682	26.8	4,102	178	50.1	223	191	24.0	21
Vermont Massachusetts	4, 625 7, 982	576 3,136	18.6 31.2	2.0 9.8	5,035	616	202.2	21.2	4, 051 7, 067	18.4 30.5	4, 400 8, 389	144 434	80.0 45.3	184 628	430 481	17.8	48
Rhode Island	1, 366	471	41.1	11.5	9, 572 1, 701	3, 535 536	373.9 512.0	110.5 131.3	1,125	40.1	1, 398	56	56.6	91	185	44.6	58 21
Connecticut	5, 425	1,377	31.5	6.1	6, 344	1, 595	368.9	70,4	4, 807	30.8	5, 549	256	47.3	378	862	83.9	41
MIDDLE ATLANTIC:						-,	00.00				,						~
New York	54, 084	8,636	33.8	4.5	58, 974	9, 259	369.0	47.9	45, 461	33.4	49, 525	1, 139	42.9	1, 411	7, 484	85.4	8,03
New Jersey	12, 504	8,075	49.8	10.4	14, 753	3, 380	581. 3	113.8	9, 920	47.8	11, 648	355	53.9	599	2, 229	56.5	2, 50
Pennsylvania	43, 108	8, 761	25.0	4.3	47, 062	9, 872	273.0	46.3	35, 875	25. 2	38, 992	974	85.5	1, 349	6, 319	23, 1	6,72
EAST NORTH CENTRAL:	84 465																
Ohio Indiana	36, 693 28, 468	6, 960 3, 501	16.7 15.7	2.7	39, 210	7, 319	178.8	28.5	27, 424	17.2	29, 347	602 329	82.7	820	8,667	15.0	9,04
Illinois	38, 877	5,907	18.1	1.7	30, 037 40, 371	3, 671 6, 154	165.4 188.2	17.9 25.9	19, 417 20, 571	15.5 17.2	20, 575	593	22.3 27.9	432 787	8,722 17,713	16.0 19.2	9,03
Michigan.	34, 894	4,681	20.6	2.4	36, 768	4, 886	217.1	23.9	28, 986	20.5	30, 471	595	38.9	759	5, 313	20.3	5, 53
Wisconsin	50, 108	3,893	27.6	2.1	51, 786	4,044	284.9	21.4	40, 277	27.4	41,605	546	32.9	666	9, 285	28.0	9,51
WEST NORTH CENTRAL:															1		"
Minnesota	35, 503	3, 677	19.2	2.1	36, 557	8, 803	197. 3	21.3	25, 778	20.4	26, 543	294	28.1	353	9, 436	16.4	9,66
Iowa	31, 874	8,669	14.8	4.1	32, 669	8, 910	152.0	41.7	17, 601	15.8	18, 125	268	13.5	318	14,005	13.8	14, 22
Missouri North Dakota	19, 215 16, 502	4,878	7.5	1.9	20, 132	5, 059	78.7	19.2	13, 530	8,2	14,156	281	18.2	349	5, 404	6.1	5, 62
South Dakota	14, 485	743 4, 249	21.2 17.4	1.0 5.7	16, 990 14, 816	774	217.9	10.0	12, 093 9, 295	24.1	12, 453	131	27.9	151	4,278	15.6	4,88
Nebraska	25, 176	6,333	19.4	5.1	26, 045	4, 353 6, 548	178.2 201.2	58.3 52.6	9, 295 14, 934	20.4 22.2	9, 535 15, 515	75 206	16.5 20.2	91 236	5, 115	13.8 16.4	5, 19
Kansas.	32,009	3,782	19.3	2.8	33, 648	3,928	201. 2	23.8	19,743	20.8	20, 904	200	20.2	326	12,006	10.4	10, 29
SOUTH ATLANTIC:						0,000	002.0			-0.0				020	12,000		1 449 34
Delaware	2, 781	283	28.6	2.8	2, 996	304	308. 6	30.0	1, 989	31.8	2, 157	52	31.5	73	740	22.5	78
Maryland	10, 205	2, 556	23.6	5.3	11, 284	2, 805	261. 2	58.5	7, 843	25.4	8, 723	288	30.7	869	2,074	18.1	2, 19
District of Columbia. Virginia	57 17, 964	29 2,389	54.8 10.5	14.2	16 (17)	29	778.8	142.2	33	55.9	43	11	52.4	23	13	54.2	1
West Virginia	6, 936	886	8.4	1.3 1.0	19, 459 7, 432	2, 544 936	114.1 89.9	13.7	14, 664 5, 874	12.1 8.8	15,813	481	31.3	683	2, 819	5.9	2,90
North Carolina	17, 613	2, 551	6.3	0.9	18, 558	2,671	66, 3	10.7 9.9	14, 024	9,9	6, 262 14, 765	170 244	23.6 37.7	222 330	892 3, 345	5.8 2.4	94 3,46
South Carolina	6, 575	1,609	4.2	0.8	6, 966	1,736	44.1	9.0	4, 625	8.5	4, 898	175	25.3	233	1,775	1.7	1,83
Georgia	15, 036	2, 913	5.9	0.9	15, 967	3,145	62.5	10.1	9, 648	12.1	10, 267	469	33.4	605	4,919	2.8	5,09
Florida	10, 852	1, 500	18.4	2.8	12, 203	1,617	206. 9	29.9	8, 140	20.7	9,004	581	20.5	917	2, 131	12.7	2, 25
EAST SOUTH CENTRAL: Kentucky	R 740	1 400															
Tennessee	6, 740 8, 563	1,455 1,362	2.7 3.5	0.5	7, 188	1,538	29. 2	5.7	5, 252	3.3	5, 585	101	15.0	140	1, 387	1.6	1,46
Alabama	12, 169	1, 362	4.7	0.5 0.4	9, 039 12, 838	1,420 1,180	36. 8 49. 9	5.7	6, 392 8, 632	4.9 9.6	6,755	134	21.9	177	2,037	1.8	2,10
Mississippi	15, 762	938	5.0	0.3	14, 503	1,180	49.9 52.8	4.6 3.7	8, 632 10, 816	9.6 12.6	9, 126 11, 383	154 332	25. 5 33. 2	203 402	8, 383 4 A14	2.0 2.0	3, 50 4, 71
WEST SOUTH CENTRAL:					.,	-1000		<b>*</b> '			*******	002	00, 2	102	4, 614	4.0	1 2,12
Arkansas	10, 526	973	4.3	0.4	11, 000	1, 027	45.4	4.4	6, 781	7.6	7, 107	197	31.1	241	3, 548	2.3	3, 68
Louisiana	8, 769	793	5.4	0.6	9, 281	874	57. B	6.5	6, 096	11.5	6, 455	239	32.5	321	2, 434	2.8	2, 50
Oklahoma	23, 039	2,070	11.3	1.1	23, 930	2, 155	117.4	11.2	12, 653	16.3	18, 234	235	28.6	279	10, 151	8.1	10, 41
MOUNTAIN:	49, 966	5, 124	10.1	1.2	52, 580	5, 399	106.1	12.4	28, 839	15.1	30, 508	894	27.0	1, 118	20, 233	6.7	20, 89
Montana	13, 783	1, 167	29.0	2.0	14, 615	1, 225	-307. 7	21. 2	10, 734	30.4	11, 358	194	87.7	258	2, 855	24, 6	2, 99
Idaho	5, 986	779	14.4	1.9	6, 281	\$37	150.7	19.9	4, 523	14.8	4, 734	106	17.6	135	1, 357	12.9	1,41
Wyoming. Colorado	3, 820	354 0 604	23.9	3.5	4, 108	591	256.6	37.5	2, 879	23.6	3, 056	110	37.2	175	831	23.6	87
New Mexico	16, 052 5, 024	2, 884 552	26.8 16.0	4.8	16, 918	3,016	282. 2	50, 3	10, 218	26.6	10, 841	249	29.7	296	5, 585	27.0	5,78
Arizona	a, 024 2, 719	582 527	10.0	1.8 5.8	5, 328 3, 062	593	169.7	19.9	3,815	15.4	4,038	92	27.5	114	1, 117	17.6	1,1
Utah	3, 986	544	18.2	2.1	a, 062 4, 189	581 572	216.0 154,2	58.2	1,967	17.4	2,167	203	37.0	271	549	23.6	6
Nevada	1, 118	161	32.5	5.1	4, 189	174	360, 5	22.3 55.0	3, 512 893	14.9 32.2	3,688	53 70	23.0	61	421	12.7	4
PACIFIC:										0.4	200	70	80.8	88	155	34.8	, <sup>1</sup>
Washington	17,622	3,172	24.9	4.8	18, 836	3, 371	265.7	\$0.9	13, 840	24.0	14, 760	482	38.9	599	3, 300	27. 3	8,4
Oregon. California	9, 110 35, 674	1,728	16.5	8.4	9, 741	1, 819	176.6	36.2		15, 9	7, 574	246	29.2	291	1, 775	18.1	1,8
WER11554.1119	44.04	a, 1419	26.3	5.0	40, 971	6,416	302.0	54. 5	25, 541	24.7	28, 691	2, 697	34.7	8,753	7,436	30.5	8, 5

[Statistics for 1930 relate to April 1, and for 1920 to January 1]

TABLE 19.—TRACTORS ON FARMS—FARMS REPORTING AND NUMBER OF TRACTORS, 1980, 1925, AND 1920; BY TENURE OF OPERATOR, 1930; BY DIVISIONS AND STATES

[Statistics for 1930 relate to April 1, and for 1925 and 1920 to January 1]

						T	DTAL					in the second second	ow	NERS.	1030	MAN	CPP	H, 1930	1	ANTS.	1050
		Far	ms repo	rting			}			1			Farr		1			1890			1230
DIVISION AND STATE		Number		Per	cent e farms		Numi	ber of tri	actors	tori	ber of i per 1, all fari	.000	report		Num- ber of	Fai repoi	nis ting	Num- ber of	Far rej.or	ting 	Num- ber of
	1930	1925	1920	1930	1925	1920	1930	1925	1920	1930	1925	1920	Num- ber	cent of all own- ers	trac- tors	Num- ber	cent	trac- tors	Num- ber	Per cent of all ten- ants	
United States GEOGRAPHIC DIVISIONS:	851, 457	473, 848	229, 832	15. 5	7.4	8.6	920, 021	505, 933	246, 088	146. 8	79.4	\$8. 2	550, 983	15.4	595, 722	19, 029	34.0	26, 032	281, 445	10.6	298, 267
New England Middle Atlantic East North Central. West North Central. South Atlantic East South Central. West South Central. Mountain Pacific NEW ENGLAND:	13, 111 76, 719 238, 995 205, 160 43, 983 22, 584 63, 177 43, 171 54, 557	7, 319 47, 471 141, 670 151, 838 28, 938 13, 299 29, 845 17, 899 35, 569	13, 240 55, 413 92, 123 10, 460 5, 044 17, 435 15, 865	21. 5 24. 7 26. 5 4. 2 2. 1 5. 7	11.3 13.5 13.7 2.6 1.3 2.9 7.7	3.1 5.1 8.4 0.9 0.5 1.8 6.5	14, 109 81, 970 249, 333 318, 160 47, 376 24, 393 74, 010 48, 007 62, 663	161, 559 31, 075 14, 097	14, 140 58, 092 97, 884 11, 229 5, 379 19, 892	112. 9 229. 2 258. 0 285. 9 44. 8 23. 0 67. 1 198. 9 239. 4	49. 2 119. 0 139. 5 145. 4 28. 0 14. 0 34. 1 85. 4 151. 4	33. 3 53. 6 89. 2 9. 7 5. 1 20. 0 71. 7	11, 344 60, 222 150, 136 170, 708 32, 116 16, 968 36, 661 30, 522 41, 306	20. 1 21. 6 25. 8 6. 1 3. 6 8. 9 17. 1	12, 082 63, 985 156, 540 186, 246 35, 046 18, 097 43, 384 33, 911 46, 431	2, 647 3, 596 2, 332 2, 718 909 1, 572 943	43.7 41.7 31.2 30.3 31.5 28.6 26.3	3, 459 4, 693 2, 989 3, 762 1, 853 2, 503	85, 263 122, 120 8, 149 4, 707 24, 944 11, 706	26.4 32.3 27.5 1.6 0.8 3.6 19.9	88, 100 128, 925 8, 568 4, 943 28, 123 12, 737
Maine New Hampshire Vermont Massachusetts Rhode Island Connecticut MIDDLE ATLANTIC:	3, 214 1, 013 2, 342 3, 565 516 2, 463	1, 684 494 1, 500 2, 046 280 1, 315	605 196 424 540 69 411	8.2 6.8 9.4 13.9 15.5 14.3	3.4 2.3 5.4 6.1 7.2 5.7	1.3 1.0 1.5 1.7 1.7 1.8	8, 410 1, 096 2, 426 3, 921 589 2, 667	1, 774 531 1, 568 2, 212 318 1, 441	635 207 414 592 79 440	87.4 73.5 97.4 153.2 177.3 155.1	35.5 25.2 56.4 66.1 81.3 62.0	10, 1 15, 3 18, 5 19, 3	2, 957 882 1, 930 3, 055 413 2, 107	8.0 6.4 8.8 13.2 14.7 13.5	8, 115 941 1, 990 3, 324 463 2, 249	129 90 114 324 45 187	25.4	160 112 133 393 62 237	128 41 298 184 58 169	12.8 14.0	135 43 303 204 64 181
New York New Jersey Pennsylvania EAST NORTH CENTEAL: Ohio	37, 790 7, 241 31, 688	24, 350 4, 113 19, 008	845 5, 374	28. 5 18. 4	12.9 13.9 9.5	3.6 2.8 2.7	40, 369 8, 088 33, 513	25, 681 4, 419 19, 764		252.6 318.7 194.4	126, 1 148, 9 98, 6		30, 478 5, 427 24, 317		32, 446 6, 006 25, 533	1, 076 378 1, 193	40, 6 57, 4 43, 5	1, 348 555 1, 556	6, 236 1, 436 6, 178	29, 5 36, 4 22, 6	6, 575 1, 527 6, 424
Indiana Illinois Michigan Wisconsin	50, 693 40, 402 66, 172 33, 098 48, 630	29, 951 22, 817 41, 435 18, 515 28, 952	5, 584	23.1 22.3 30.8 19.5 26.8	12. 2 11. 7 18. 4 9. 6 15. 0	3.9 4.3 9.2 2.8 4.8	52, 974 41, 979 69, 628 34, 579 50, 173	30, 905 23, 567 43, 325 19, 217 29, 651	10, 469 9, 230 23, 102 5, 884 9, 407	241.6 231.2 324.6 204.2 276.0	126. 8 120. 4 192. 0 99. 9 153. 5	45.0 97.4 30.0	32, 400 23, 831 29, 235 26, 141 38, 529	19. 0 24. 4 18. 5	33, 889 24, 801 31, 002 27, 158 39, 690	812 556 900 660 668	44, 1 37, 6 42, 4 43, 1 40, 3	1, 020 696 1, 226 921 830	17, 481 16, 015 36, 037 8, 297 9, 433	30, 3 29, 3 39, 0 24, 0 28, 5	16, 482 37, 400 6, 500
WEBT NORTH CENTRAL: Minnesota Iowa Nissouri North Dakota South Dakota Nebraska Kansas Sourh ATLANTIC:	46, 171 63, 166 23, 673 34, 148 30, 972 37, 955 59, 075	12, 066 15, 853 16, 373 17, 728	19, 427 7, 438 11, 834 12, 160 10, 342	24. 9 29. 4 9. 2 43. 8 37. 2 29. 3 35. 6		8.3 9.1 2.8 15.2 16.3 8.3 9.8	48, 457 66, 258 24, 999 37, 605 33, 837 40, 729 66, 275	26, 739 37, 230 12, 745 17, 483 17, 426 18, 765	15, 503 20, 270 7, 889 13, 006 12, 939 11, 100	261.6 308.3 97.7 482.3 406.9 314.6	142. 1 174. 4 48. 9 230. 1 219. 1 146. 9 187. 9	86, 9 95, 0 30, 0 167, 4 173, 4 89, 2	29, 554 30, 794 15, 125 22, 971	23. 3 27. 7 9. 1 45. 8 39. 7 81. 3	31, 149 32, 690 15, 987 25, 563 20, 053 23, 034 37, 770	383 552 358 267 168 262	36. 6 27. 9 23. 2 56. 8 37. 0 25. 7 35. 8	493 673 453 341 222 313	16, 234 31, 820 8, 190 10, 910 12, 697 16, 558	28.2 31.3 9.2 39.8 34.2 27.1	9, 653 16, 815 32, 895 8, 559 11, 701 13, 562 17, 382 28, 011
Delaware Maryland Districtof Columbia, Virginia West Virginia North Carolina South Carolina Georgia Florida EAST SOUTH CENTRAL:	1, 447 6, 744 15 9, 142 2, 041 11, 034 3, 229 5, 349 4, 382	619 3, 814 4 6, 362 1, 765 7, 595 2, 658 3, 769 2, 352	1, 410	14.9 15.6 14.4 5.4 3.2 3.9 2.0 2.1 7.4	6.0 7.8 2.9 3.3 2.0 2.7 1.5 1.5 4.0	2.2 2.9 0.5 1.2 0.6 0.8 0.6 0.7 1.1	1, 600 7, 208 17 9, 757 2, 792 11, 426 3, 462 5, 870 5, 244	694 4, 026 8 6, 750 1, 860 7, 909 2, 906 4, 145 2, 777	1, 525	164. 8 166. 8 163. 5 57. 2 33. 8 40. 8 21. 9 23. 0 88. 9	82, 2 57, 6 34, 8 20, 6 27, 9 16, 8 16, 6	23.6 31.8 4.9 12.8 6.6 8.4 6.8 7.2 12.6		14. 1 14. 8 5. 1 6. 0 8. 2 6. 4 4. 6 4. 4 8. 2	975 4, 862 3 7, 634 2, 251 9, 314 2, 675 8, 794 3, 538	368 9 533 187	38.8	98 458 11 673 233 330 239 724 996	1, 817	15.2 15.9 12.5 2.9 1.9 1.3 0.5 0.7 3.5	527 1, 888 3 1, 450 308 1, 782 548 1, 352 710
Kentucky Tennessee Alat ama Mississippi WEST SOUTH CENTRAL:	6, 951 6, 556 4, 259 4, 818	4, 793 4, 571 2, 261 1, 674	1, 913 1, 796 737 598	2.8 2.7 1.7 1.5	1.9 1.8 1.0 0.7	0.7 0.7 0.3 0.2	7, 322 6, 865 4, 664 5, 542	4, 994 4, 767 2, 465 1, 871	2, 029 1, 872 811 667	29. 7 27. 9 18. 1 17. 7	19. 3 18. 9 10. 4 7. 3	7.5 7.4 3.2 2.5	5, 234 5, 063 3, 117 3, 554	3.3 3.8 3.4 4.1	5, 503 5, 290 8, 314 8, 990		26, 0 29, 4	189 200 326 638	1, 571 1, 334 965 837	1.8 1.2 0.6 0.4	1, 630 1, 375 1, 024 914
Arkansas Louisiana Oklahoma Texas Mountain:	4, 263 8, 810 23, 328 31, 776	2, 554 2, 466 9, 954 14, 871	1, 423 2, 142 5, 786 8, 084	1.8 2.4 11.4 6.4	1,2 1,9 5.0 3.2	0.6 1.6 3.0 1.9	5, 684 5, 016 25, 962 37, 348	3, 476 3, 482 10, 950 16, 780	1, 822 2, 812 6, 210 9, 048	23. 5 31. 1 127. 3 75. 4	55. 5	7.8 20.8 32.3 20.8	2, 713 2, 237 13, 067 18, 644	3.0 4.2 16.8 9.8	3, 519 2, 879 14, 901 22, 085	280 229	36. 9 38. 1 27. 8 25. 0		1, 316 1, 293 10, 032 12, 303		1, 781 1, 547 10, 774 14, 021
Montana Idabo Wyoming Colorado New Mexico Arizona Utah Nevada	17, 093 4, 377 3, 749 12, 029 2, 227 2, 043 1, 335 318	5, 857 1, 796 1, 219 5, 970 995 1, 060 804 198	6, 890 1, 468 969 4, 526 457 820 553 182	10.5 23.4 20.1 7.1	12,5 4,4 7,9 10,3 3,1 9,8 3,1 5,1	11.9 3.5 6.2 7.6 1.5 8.2 2.2 5.8	19,031 4,691 4,110 13,334 2,497 2,558 1,426 360	6, 602 1, 927 1, 323 6, 693 1, 080 1, 239 850 221	1, 587 1, 075 4, 990 491 930 583	112, 6 256, 7	85.3 115.4 34.1 114.7	37.7 68.3 83.3 16.5 93.2 22.7	12, 889 3, 236 2, 781 7, 318 1, 587 1, 302 1, 162 247	22.8 19.0 6.4 11.5	14, 390 3, 464 3, 039 8, 153 1, 786 1, 536 1, 239 274	105 87 204 58 243 35	33. 9 17. 4 29. 4 24. 3 17. 4 44. 3 15. 2 16. 3	273 130 131 266 84 385 44 46	1, 036 881 4, 507 582	34.7 9.8 25.0 21.8 9.2 21.4 4.2 7.6	4, 368 1, 097 940 4, 885 627 637 143 40
PACIFIC: Washington Oregon California	7, 890 9, 157 37, 510	4, 314 5, 364 25, 891	2, 474 2, 902 12, 131	16.6	5.9 9.6 19.0	3.7 5.8 10.3	8, 388 9, 838 44, 437	<b>4, 490</b> 5, 768 29, 948			61, 3 103, 2 219, 5 1	61. 1	6, 089 7, 101 28, 116	15. 9	6, 440 7, 596 32, 395	340	27. 5 34. 0	404 385	}	12, 1 18, 1	1, 544 1, 857 8, 014

TABLE 20.—ELECTRIC MOTORS FOR FARM WORK AND STATIONARY GAS ENGINES ON FARMS—FARMS RE-PORTING AND NUMBER OF ELECTRIC MOTORS AND GAS ENGINES, BY DIVISIONS AND STATES, 1930

	ELEC		totors Work	FOR	etati	ONARY	GAS EN	HN ES		ELEC		OTORS WORK	FOR	STATI	ONARY	GAS ENG	INES
DIVISION AND STATE	Far repor		Num-		Fari repor		Num-	Num- ber of	DIVISION AND STATE	Far repor		Num-		Far repor		Num-	Num- ber of en-
	Num- ber	Per cent of all farms	ber of electric motors	per	Num- ber	Per cent of all farms	ber of gas engines	gines per 1,000 of all farms		Num- ber	Per cent of all farms	ber of electric motors		Num- ber	Per cent of all farms	ber of gas engines	gines per
United States	256, 663	4.1	386, 191	61. 4	945, 000	15.0	1, 131, 108	179.9	SOUTH ATLANTIC:								·
GEOGRAPHIC DIVISIONS:								1-5 W Washington	Delaware	884	4.0			1,453		1, 788	
New England	14, 792	11.8	109 7000	189.8	07 000			-	Maryland	2, 557	5, 9	-,	84, 9	7, 832		9, 330	216.0
Middle Atlantic	32, 311	9.0		1	27, 828			276.0	Dist. of Columbia	7	6.7	8	76.9	8	7.7	10	96.2
East North Central	65. 344	8.0 6.8			103, 864				Virginia	2, 427	1.4	3, 632		8, 959	5.3	10, 298	60.4
West North Central.	49.972				281, 878				West Virginia	884	1.1	1, 269	15.4	3, 705	4.5	4, 814	52.2
South Atlantic	19, 972		,,		356, 995				North Carolina	1, 638	0.6	2, 320	8.3	4, 547	1.6	4, 981	17.8
East South Central	3, 999	1, 1 0, 3			38, 595	3.5			South Carolina	757	0.5	945	6.0	2,358	1.5	2,677	
West South Central.				4.4		1,3	14, 892		Georgia	968	0.4	1,246	4, 9	4, 130	1.6	5,000	19.6
Mountain	11. 751		9, 862			2.8			Florida	1, 592	2.7	2, 481	42, 1	3, 603	6, 1	4,502	76. B
Pacific	60, 470	4.9							EAST SOUTH CENTRAL:								
1 DULLIU	00, 370	23, 1	91, 058	847, 9	55, 214	21. 1	68, 735	262.6	Kentucky	1, 121	0.5	1, 484	6.0	4, 821	2.0	5, 326	21.6
NEW ENGLAND:	100000-0000000000000000000000000000000		2002012-0002-	Shares and		10000000000	and a construction of the second s		Tennessee	1, 216	0.5	1, 603	6.5	4, 382	1.8	4,895	
Maine.									Alabama	678	0. 3	972	3.8	2, 154	0.8	2,485	9.7
New Hampshire	3, 447	8.8	5, 575		7,005	18, 0		213.9	Mississippi	494	0. 2	632	2.0	1, 927	0.6	2, 186	
Vermont		10, 5			3, 020	20, 3		249.9	WEST SOUTH CENTRAL:							-,,	
Massachusetts	2,358	9.5	3, 645		8, 437	33. 9	10, 962		Arkansas	1,056	0, 4	1,460	6.0	3, 911	1.6	4, 780	19.5
Rhode Island		16.7	6, 846		4, 328	16.9		206.4	Louisiana	510	0. 8	633	3.9	2,072	1.3	2,639	16.3
Connecticut	646	19.4	1, 181	355. 5	544	16.4	707	212.8	Oklahoma	1,688	0.8	2,418	11.9	8,499	4.2	9, 863	45.9
MIDDLE ATLANTIC:	2, 514	14.6	4, 043	285.1	4, 494	26.1	5, 462	817.7	Texas	4,051	0.8	5, 351	10.8	16, 189	3.8	18,974	38.3
	10.04								MOUNTAIN:	· 1				,			00.0
New York	16, 012		24, 342	152.3	50, 094	31. 3	64, 723	405.0	Montana	1,088	2.8	1,708	36.0	11, 588	24.4	13, 639	287. 2
New Jersey	4, 102		5, 879	231, 7	6, 963	27.4		356.1	Idaho	4, 406	10.6	6.713	161.1	8, 252	19.8	10,024	
Pennsylvania EAST NORTH CENTRAL:	12, 197	7.1	18, 461	107.1	46, 807	27, 1	57, 340	332.6	Wyoming	815	2.0	481	30.0	2,929	18.8	8, 424	
				E.	1	1		1	Colorado	2, 289	3, 8	8, 299	55.0	9,970	16.6	11, 470	
Ohio	14, 000	6.4	ALC: 1 444.14	97. 0	45, 108	20.6	52,508	239.4	New Mexico	893	1. 3	580	18.5	1, 567	5.0	2.018	
Indiana.	7, 795	4.3		60.7	35, 192	19.4	39, 380	216.9	Arizona	1, 427	10.1	2,054	144.9	2, 357	16.6	3, 015	**** <b>*</b>
Lilineis	16, 452	4.9	15, 557	72. 5	66, 640	31, 1	79, 300	369.7	Utah	1, 269	4.7	1,756	64.7	1, 111	4.1	1, 236	45.5
Michigan	10, 285	6, 1	14, 892	87.9	<b>46,</b> \$74	27.5	55, 366		Nevada	564	16.4	960	278.9	897	26.1	1, 230	
Wisconsin	22, 812	12.6	33, 795	185.9	88, 364	48, 6	108, 134	594. 9	PACIFIC:	7				507	20.1	1, 221	356. 5
WEBT NORTH CENTRAL:					1		ł		Washington	10, 751	15.2	15.788	222.7	15, 378	21.7	18, 762	264.6
Minnesota	11, 721		19, 926	107.6	93, 382	60.4	112, 376	606.6	Oregon	6,043	11.0		163.4	13, 633	24.7		
Iowa.	17, 277	8.0	27, 801	129.4	94, 772	44.1	114, 977			42, 676			488.4	26, 208	24. 7 19. 3	17, 189	
Missouri	3, 580	1, 4	4, 949	19. 3	27, 477	10.7	31, 718	123.9				33, 200	100, 1	40, 400	18' 9	32, 784	241, 6
North Dakota	3, 200	4.1	4, 878	62.6	85, 226	45. 2	44, 165	566.4		· 1			1		.	!	
South Dakota	3, 283	3, 9	4, 686	56.4	29, 765	35. 8	84, 475	414.6								1	
Nebraska	5, 807	4.5	8, 203	64.1	41, 945	32. 4	45, 902	354.6		·	1						
Kansas	5, 101	3. 1	7, 463	44.9	34, 428	20.7	38, 861					1				·	
	{						• 1			1			1				

TABLE 21.—TELEPHONES, AND DWELLINGS LIGHTED BY ELECTRICITY: ON FARMS—FARMS REPORTING 1930 AND 1920; BY TENURE OF OPERATOR, 1930; BY DIVISIONS AND STATES

[Statistics for 1930 relate to April I, and for 1920 to January 1]

anne die fan de lander oan de streen de s		OPERATORS' DWELLINGS LIGHTED BY ELECTRICITY 1																		
DIVISION AND STATE		Total			Owne 1930			agers, 30	Tena 193			Total			Own 193		Man 19	agers, 130	Tens 195	
	Number repo		of fai	cent all ms	Number report- ing	Per cent of all own-	Num- ber re- port- ing	Per cent of all man-	Num- ber re- porting	Per cent of all ten-	Num far repoi	ms rting	Per of far	all ms	Num- ber re- porting	Per cent of all own-	Num- ber re- port-	Per cent of all man-	Num- ber re- port- ing	Per cent of all ten-
United States						ers		agers		ants		1920	1930	1920		ers	ing	agers		ants
GEOGRAPHIC DIVISIONS:	2, 100, 194	2, 498, 493	84. 0	38.7	1, 540, 818	43. 2	28, 399	50.8	570, 482	21. 4	841, 310	452, 620	18.4	7. 0	693, 083	19.4	19, 647	35. 2	128, 580	4. 8
New England	76, 284	80, 510			69, 779		2, 338	79.6	4, 167	52. 8	53, 655	24, 000	42, 9	15.3	49,097	43.0	1,948	66, 3	2, 610	33. 1
Middle Atlantic East North Central.	161, 879 560, 462	189, 344 678, 862			137, 469 405, 834	46.0 58.5		61.5 64.8	20, 685 149, 030	39.4 56.5	114, 098 202, 656	60, 102 113, 871		14.1	99,065	33.1	2,984	49. 3	12, 049	23.0
West North Central.	724, 545			69.5	455, 476	68.9	5, 182		263, 887	59.4	146, 969	97, 847		10, 5 8, 9	163,920 114,124			35.5 21.2		18.5 7.0
South Atlantic East South Central	117, 464 142, 204	164, 213 196, 692		14.2 18.7	98, 260 111, 682	18.2 24.0		33, 4	16, 207	8.2	64, 173	45, 407	6. 1	3.9	53, 696		2, 056	22.9	8, 421	1.7
West South Central.	181, 647	278, 315			121,607	24.0	1 . 1	42,9 38,8	29, 282 57, 903	4, 9 8, 4	31, 952 40, 240	21, 720 19. 352	3. 0 3. 6	2, 1 1, 9	26, 450 31, 861		1	26.5		0.8
Mountain	68, 217	62, 503		25, 6	52, 167	29. 2		42.9	14, 509	24. 7	49, 173	25, 161	20, 4	10.3	40,862	7.8 22.8		18.7 26.9		1.1 12.5
Pacific	106, 492	90, 612	40.7	38.7	88, 039	42.8	8, 641	37.0	14, 812	32. 0	138, 394	45, 160	52. 9	<b>19.</b> 8				53.4		41.3
NEW ENGLAND: Maine	22, 189	23, 632	56.9	49.0	21, 059	57.3	970	71.0			10.000	Table								
New Hampshire	9, 313	10, 166			8, 587	62.4	358 297	71.2 83.7	772 429	44. 0 53. 9	12, 920 6, 160	4, 625 2, 322	33. 1 41. 3	9.6 11.3	12, 254 5, 686			52.9 66.2	400 239	22.8 30.0
Vermont	15, 093	16, 752			13, 455	61. 1	348	72.5	1, 290	58. 5	7, 565	8, 328	30. 4	11.4	6,826			47.1	513	21.3
Massachusetts Rhode Island	16, 581 1, 742	16, 537 1, 685			14,979	64.6	793	82.8	809	56, 1	16, 037	9, 062		28. 3	14, 514	62. 6	750	78.3	778	53, 6
Connecticut	11, 366	11, 738		51.8	1, 484 10, 215	52.8 65.5	73 409	73.7 86.7	185 682	44. 6 63. 9	1,910 9,063	700 8, 963	57. 5 52. 7	17.1 17.5	1, 659 8, 158		69 402	69.7	182	43.9
MIDDLE ATLANTIC:								00.1	0.02	00. 0	2,000	0, 800	04. 1	11.0	o, 100	<b>52, 5</b>	402	74.3	508	47.1
New York	78, 185 10, 373	91, 973			67, 474	49.6		65.0	8, 987	42. 6	55, 019	24, 882	34. 4	12.9	48, 477	35, 6	1, 371	51.7	5, 171	24.5
Pennsylvania	10, 878	9, 484 87, 887		31, 9 43, 5	8, 455 61, 540	40, 7 43, 3	401 1,600	60.8 58.4	1, 517 10, 181	38.4 37.2	13, 441	4, 551	53.0	15.8	11,711		401	60.8	1, 329	33.7
EAST NORTH CENTRAL:					01,010	30.0	1,000	90.4	10, 101	31.2	45, 638	30, 669	26.5	15.2	38, 877	27.3	1, 212	44, 2	5, 549	20.3
Ohio	121, 214	159, 478			92, 621	57. 9	1, 146	62.2	27, 447	47.6	56, 740	87, 745	25.9	14.7	46, 169	28, 9	787	42.7	9, 784	17.0
Indiana Illinois	110, 333 147, 672	136, 140 173, 572		66, 4 73, 2	80, 092 84, 003	63.8 70.1	951	64, 3	29, 290	53.7	30, 335	20, 584		10.0	24, 106			25. 8		10.7
Michigan	78, 757	97, 874		49.8	63, 128	44.6	1, 505 921	70, 9 60, 2	62, 164 9, 713	67. 2 37, 1	34, 231 34, 785	28, 273 15, 695		9. 8 8. 0	24, 200 30, 057	20, 2 21, 2		26.9 44.4	9, 469 4, 048	10. 2 15. 5
Wisconsin	107, 486	111, 798		59, 1	85, 995	58. 5		64.8	20, 416	61. 6	46, 565	16, 574		8, 8			651	39. 2	6, 526	19.7
WEST NORTH CENTRAL: Minnesota	114, 693	110 549	e1 0	A9 0	81 001								]	_			á,	C. 1	C = A	
Iowa	180, 876	110, 568 183, 852		62.0 86,1	81, 081 98, 996	64.1 87.1	719 1, 564	68.7 79.0	32, 893 82, 316	57, 1 81, 0	23, 342 46, 042	13, 539 32, 552	12.6 21.4	7.6 15.3		15. 0 29. 9	308 396	29.4	4,081	7.1
Missouri	187, 712	163, 543		62. 2	101, 012	61. 1	1,007	65.1	35, 693	40.1	20, 223	14, 841	7.9	5.5	16, 565	10.0	826	20.0 21.1	12, 318	12.1 8.7
North Dakota	81, 878	86, 349		46, 8	22, 882	45.7	242	51, 5	8,754	31.9	6, 192	4, 518	7.9	5.8		10, 2	78	15.5	1, 012	8.7
Nebraska	44, 608 93, 888	44, 327 95, 050		59, 4 78, 4	26, 079 52, 575	57.2 78.0	250 725	55.1 71.1	18, 279 40, 588	49.3 66.5	9, 070 21, 380		10.9 16.5	8.0 9.7	7,082 16,455	16.5 24.4	72 175	15.9	1, 916	5.2
Kansas	120, 890			77.9	74, 851	79.0	675	70.8	45, 364	64. 5	20, 720		12.5	8.7	16, 634	17.6	233	17, 2 24, 4	4, 760 8, 863	7.8 5.5
SOUTH ATLANTIC: Delaware	0,400			07.0																
Maryland	2, 420 11, 935	2, 763 11, 755		27. 2 24, 5	1, 741 9, 258	27.8 30.0	80 443	48.5 47.2	599 2, 239	18. 8 19. 6	1, 561 9, 145		16, 1 21, 2	3.9 7.0	1, 315	21.0	56	83.9	190	5.8
District of Columbia.	69	67	66. 3	32,8	42	71.2	17	81.0	10	41.7	67	a, aau 52	64. 4	25.5	7, 816 41	25.4 69.5	308 15	32.8 71.4	1, 021 11	8.9 45.8
Virginia	80, 418	33, 482		18, 0	26, 185	21.6	785	51. 1	3, 448	7.2	13, 009	7, 874	7. 6	4.2	11, 312	9. 3	419	27.3	1, 278	2.7
West Virginia	28, 117 19, 852	37, 789 33, 029	84.0 7,1	43.3 12.2	25, 188 16, 811	37. 8 11. 9	348 272	48.3 42.0	2, 581 2, 769	16. 8 2. 0	5, 330	12, 900	6.4	14.8	4,730	7, 1	124	17.2	476	2, 1
South Carolina	6, 357	10, 943		5,7		9.4	200	28.9	1,028	1.0	15,006	7, 816 5, 170	5.4 3.8	2.9 2.7	12, 581 4, 661	8.9 8.6	245 157	87.8 22.7	2, 180	1,6 1,2
Georgia	14, 771	29, 861	5.8	9.6	10, 978	13.8	509	36, 2	3, 289	1, 9	7, 409	5, 826	2.9	1.9	5, 730	7.2	280	19.9	1, 489	0, 9
Florida. EAST SOUTH CENTRAL:	3, 525	4, 524	6, 0	8, 4	2, 938	7.5	843	12.1	244	1. 5	6, 489	2, 042	11.0	3.8	5, 510	14.0	452	15.9	527	2, 1
Kentucky	61, 631	73, 145	25, 0	27, 0	49, 606	81. 5	851	52.0	11, 674	18. 2	10, 691	5, 925	4.8	2.2	9, 1.59	5.8	179	26. 5	1, 353	1.5
Tennessee	45, 205	56, 880	18.4	22, 5	34, 979	26, 6	298	48.8	9, 928	8.7	10, 010	4, 554	4.1	1.8	8, 534	6.5	165	27.0	1, 311	1.2
Alabama Mississippi	19, 510 15, 858	38, 407 28, 260		15.0		16.3		28.5	4, 634	2.8	6, 459	8, 845	2.5	8.8	4,951	5. 5	137	22.7	1, 371	0, 8
WEST SOUTH CENTRAL:	20,000	20, 200	5. 1	10.4	12, 393	14.4	419	41.9	8, 046	1, 4	4, 792	2, 896	1, 5	1.1	3, 800	4.4	283	28. 2	703	0, 3
Arkansas	25, 046	52, 869		22, 7	19, 224	21, 6	244	<b>38</b> , 5	5, 578	8. 7	5, 121	2, 643	2,1	1.1	8, 992	4.5	154	24. 8	975	0.6
Louisiana Oklahoma	6, 106 53, 149	8, 599 71, 613		6. 8 37 9	4, 781	8.9 42.6	295 344	40.1	1,080	1.0	4, 174	1,471	2.6	1.1	8, 256	6.1	216	29.4	702	0.7
Texas.	97, 846	71, 613 140, 234		37, 8 32, 2		42.0		41, 8 87, 8	19, 684 31, 561	15.7 10.5	8, 091 22, 854	7, 010 8, 228	4.0 4.6	8.7 1.9	0, 855 18, 258	8.2 9.6	159 499	19.3 15.1	1, 577 4, 097	1,3 1,4
MOUNTAIN:												Į		[				^	-1 •••1	
Montana Idabo	9, 697	9, 781		17.0		21.7	214	41.6	1, 806	15.5	8, 547	2,018	7.5	8.5	2, 949	8.8	114	22.2	484	4.2
Wyoming	15, 733 4, 483	13, 837 4, 449		82, 9 28, 3		40.2	239 154	39, 6 52, 0	8, 239 782	30. 7 22. 2	12, 809 1, 145	5, 982 717	30.7 7.2	14.2 4.6	10, 168 948	88, 3 7, 7	181 62	30. 0 20. 9	2, 460 140	23, 3 4, 0
Colorado	23, 877	22, 022	1.0.5	36. 7	16, 367	42.6	448	52.9	7,067	34. 2	9, 393	8, 925		6.5	7, 278	18.9	205	24. 5	1, 910	9.2
New Mexico	2, 879	3, 359				9.1	94 101	28.1	524	8.8	1, 691	422	5.4	1.4	1, 409	5.7	58	17.4	224	8.5
Arizona Utah	2, 672 7, 416	1, 638 6, 295				18.8 28.7	184 90	83.6 89.1	308 541	15. 8 16. 8	8, 671 15, 778	592 11, <b>12</b> 5	25.9 58.1	5, 9 43, 4	2, 954 14, 220	26.2 60.2	194 95	85.4 41.8	523 1, 463	22.4 44.1
Nevada	1, 460	1, 122				41.7	123		182	40. 9	1, 189			12.2	14, 220 941	34. 0		91. 0 25. 1	1, 400	33. 1 31, 7
PACIFIC:												1								
Washington Oregon	81, 764 26, 557	27, 952 25, 351				45.2 49.6	575 449	46, 4 53, 3	5, 147 4, 045	42.6 41.3	34, 056 18, 397	9, 178 5, 463		13.8 10.9	29, 472 15, 623	51. 2 35. 1	642 302	51, 9 35, 9	3,942 2,472	32.6 25.3
California	48, 171	37, 309					2, 617	33.7	5, 620	23.0	85, 941	30, 519		25.9	68,913		4,310		12,718	
1 Gas or electricity for									·····											

湖湖 清清 中 清清 建清

1 Gas or electricity for 1920.

### TABLE 22.—FARMS REPORTING WATER PIPED INTO DWELLINGS, 1930 AND 1920; AND INTO BATHROOMS, 1930; BY TENURE OF FARM OPERATOR FOR 1930; BY DIVISIONS AND STATES

BYBURA AND STATE         Number of fame         Person         Nump.         Person         Nump.<					WATER	PIPED IN	to dwy	LLINGS			(49-14)-91-16 (9-14)-9-1-1		WAT	ER PIPED	INTO	BATHRO	oms, 1	930	
Number of name         Person of All Property         Nume         Person of All Property         Num         Person o			Tots	<b>1</b>		Owner	s, 1930	Manag	ers, 1930	Tenant	s, 1930	Tot	ul	Оwл	ers	Man	agers	Ten	ants
Index         Index <th< td=""><td>DIVISION AND STATE</td><td colspan="2"></td><td colspan="2"></td><td>ber</td><td>cent</td><td>ber</td><td>cent</td><td>ber</td><td>cent</td><td>ber of</td><td>cent</td><td>ber</td><td>cent</td><td>ber</td><td>cent</td><td>Num- ber</td><td>Per cent</td></th<>	DIVISION AND STATE					ber	cent	ber	cent	ber	cent	ber of	cent	ber	cent	ber	cent	Num- ber	Per cent
Grandsartt: oversionen         Test         Tes		1930	1920	1930	1920				man-		ten-	report-			own-		man-	report- ing	of all ten- ants
New England         79,810         74,664         81,9         97,9         78,9         64,92         81,8         32,644         82,9         78,9         64,92         81,8         32,644         82,9         78,9         64,92         81,8         32,644         82,9         78,9         64,92         81,8         78,9         64,92         81,9         78,9         64,92         81,94         78,9         64,92         81,94         78,9         64,92         81,94         78,9         64,92         81,94         78,9         64,92         81,94         78,9         64,92         78,9         64,92         78,9         64,92         78,9         64,92         78,9         64,92         78,9         64,92         78,9         64,92         78,9         64,92         78,9         64,92         78,9         64,92         78,9         64,92         78,9         64,92         78,9         64,92         78,9         64,92         78,9         64,92         78,9         78,9         78,9         78,9         78,9         78,9         78,9         78,9         78,9         78,9         78,9         78,9         78,9         78,9         78,9         78,9         78,9         78,9         78,9		994, 202	649, 899	15. B	10. 0	779, 327	21.8	24, 300	48. 5	190, 575	7. 2	531, 248	8.4	431, 340	12. 1	18, 432	33. 0	81, 476	3.1
Maint         Maint <th< td=""><td></td><td>70 815</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>- </td></th<>		70 815																	-
Text North Central         Jung 21         Jia 24         Jia 26         Jia 27         Jia 26	•• •• •• ••		4 T	1			1				1.			1.1.1.1			63, 1	1,692	21.5
Went North Central 190, 202 190, 35 122 192, 35 122 192, 35 13, 35 16, 37 11, 35 19, 37 14, 35 15, 35 16, 36 17, 37 11, 35 19, 37 14, 35 15, 35 16, 36 17, 37 17, 35 16, 37 11, 35 19, 37 14, 35 15, 35 16, 37 11, 35 19, 32 14, 35 16, 37 11, 35 19, 36 14, 37 15, 35 14		f		1	1 1													6,062	11.6
Secti Atlantic											1 1						1 · ·	16, 999	6.4
Base Acuth Centrell         7, 11         15, 00         2.6         1.8         21, 007         2.7         958         15.         25, 220         17, 315         1.6         18, 200         1.4         18, 200         18, 3         18, 200         18, 4         18, 200         18, 4         18, 200         18, 4         18, 200         18, 4         18, 200         18, 4         18, 200         18, 4         18, 200         18, 4         18, 200         18, 4         18, 200         18, 4         18, 200         18, 4         18, 200         18, 4         18, 200         18, 4         18, 200         18, 4         18, 200         18, 4         18, 200         18, 4         18, 200 <th< td=""><td></td><td>1</td><td>1 1</td><td></td><td></td><td></td><td>4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>20,724</td><td>4.7</td></th<>		1	1 1				4											20,724	4.7
Wess South Centrary         88, 376         69, 518         80, 49         61, 308         14.9         1, 692         36.5         72, 228         71         00, 501         16.9         12.9         12.90         12.			15, 999	2.6							4 1							4,576	0.9
Doublishin         48, 294         20, 69         10, 8         20, 200         12, 4         500         57.7         7, 81.         13.3         20, 200         12, 4         500         5, 22           Maine         10, 22         15, 60         6, 20         6, 50         20         5, 23         5, 23         5, 23         5, 20         5, 440         5, 00		88, 376	49, 191	8.0	4.9			1			1 1		1 (	1 1		F .		2,206	0.4
Lensitization         116,880         69,780         84.0         71.4         81.2         71.2 <td></td> <td></td> <td>1 1</td> <td>20.0</td> <td>10.8</td> <td></td> <td>21.9</td> <td>( · ·</td> <td></td> <td></td> <td></td> <td>( ř</td> <td>1 1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1.5</td>			1 1	20.0	10.8		21.9	( · ·				( ř	1 1						1.5
New Yanciastr:         19, 121         19, 221         15, 627         44.0         77.4         15, 607         40.2         20.4         70.4         600         38.7         4, 013         12.0         70.4         16, 607         73.8         55.5         10, 106         73.8         55.5         10, 106         73.8         55.5         10, 106         73.8         55.6         10, 106         73.8         84.8         50.1         10.3         73.8         84.8         50.1         10.3<		156, 380	97, 809	59.7	41. 8	125, 033	60.8	6, 219	63. 1		54, 3						1	15, 578	5.6 33.7
New Hampshire         10, 903         10, 705         71.6         200         10.6         10.9         3.7.4         4.9.10         12.6         4.64         12.0         4.64         12.0         4.64         12.0         4.64         12.0         4.64         12.0         4.65         12.0         4.64         12.0         12.0         4.65         12.0         1		The Berlinson Property and	a sustaining para				70,000,000,00	- and the second second second										20,010	00.7
New Yehr         10, 963         10, 764         78, 80, 73         20, 94         82, 6         207         62, 7         83, 82         20, 9         84, 40         1, 46         86, 6         10, 71         76, 7         76         81, 2         90, 66         71, 73         83, 2         90, 77         76         81, 2         90, 66         71, 77         81, 2         90, 76         81, 2         90, 76         81, 2         90, 76         81, 2         90, 76         81, 2         90, 76         81, 2         90, 76         81, 2         90, 76         81, 2         90, 76         81, 2         90, 76         81, 2         90, 76         81, 2         90, 76         81, 2         90, 76         81, 2         90, 76         81, 2         90, 76         91, 76         91, 78 <td></td> <td>1 '</td> <td></td> <td>1</td> <td>1 1</td> <td>18, 087</td> <td>49.2</td> <td>354</td> <td>70.4</td> <td>680</td> <td>38.7</td> <td>4.918</td> <td>12.6</td> <td>4, 548</td> <td>12 4</td> <td>109</td> <td>38 0</td> <td>170</td> <td>10 -</td>		1 '		1	1 1	18, 087	49.2	354	70.4	680	38.7	4.918	12.6	4, 548	12 4	109	38 0	170	10 -
Vermont		· ·	1 · ·	1			73.9				1 i j				E			178 168	10.1 21.1
Instruct				1	4 1			1	)	1, 486	61.7	6, 185				1		418	17.4
				1	1 1			{ 1										507	35.2
								1 1						875	31, 2	64		88	21, 2
New York		10,110	v, 0, 0, 2, 1	64.0	34.0	9, 634	01.8	451	83.4	631	59, 1	5, 758	33. 5	5, 044	32, 4	381	70.4	333	31.2
New Jensey         12.300         7.047         82.7         2.7.0         2.8.20         1.050	New York	59, 276	45, 487	37.1	23 5	51 895	37 0	1 601	60.0	0 000									
	New Jersey	12, 359	1 7 3								1							2, 529	12.0
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		64, 064	46, 402	37.2									1 1					823	20.8
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $								.,,		0, 001	20.0	20,090	10.1	22, 321	15.7	1,018	37.1	2, 710	9,9
$ \begin{array}{c} 1011011$			1 1 1 1 1		16.2	49, 886	31. 2	792	43.0	13, 426	23. 3	24. 320	11.1	20.071	12.6	592	28.0	9 717	
			1 1					415	28.1							1			6.5 4.9
wisconsin         <								665	31, 3	15, 068	16.3		,					7,031	7.6
WHEP NORTH CENTRALT       25, 40       1.1       24, 632       1.0       1.4       23, 213       11, 292       12, 216       8.3       302       21.2       1, 00         Minnsoota										5, 456	20.8	15, 673	9.3					1,607	6,1
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		40, 202	10,400	13.7	7.1	23, 632	16, 1	472	28.5	4, 350	13, 1	14, 533	8.0	12, 216				1,965	5.9
		23, 124	11, 392	12.6	e a	10 0.07	14.0												
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$					1 1											240	22, 9	1, 872	3.2
North Dakota	Missouri																	8, 570	8.4
South Dakota       12,060       9,157       14,5       12,3       7,631       16,7       104       22,0       4,554       11,7       4,657       5.3       2,012       4.0		5, 844	4, 684															1, 566	1,8
Nebraska		12, 089	9, 157	14.5							1 1							476	1.7
Akanas         28, 645         15, 239         16, 9         9, 3         20, 848         22.0         255         26.7         6, 942         9, 9         15, 588         9, 4         112, 405         122, 193         20, 2, 9           Delaware         1, 500         7.62         16.5         7.4         1, 125         18.0         688         41.2         307         9.4         1, 0, 33         10.6         813         13.0         53         32.1         1           Dist, of Columbia.         48         61         40.0         8, 173         28.6         444         47.3         1, 737         15.2         6, 173         14.3         5, 600         16.4         32.4         34.6         7           Virginia         9, 600         4, 674         17.5         7.8         600         18.0         183         25.1         8004         5.3         8.48         4.7         5.21         101         14.0         22.27         5           South Carolina         9, 308         4.423         3.3         1.6         7, 596         5.7         2.427         38.1         10.020         0.8         5.3         3.41         1.0         2.2         101         14.0				29.6	16.6													1,037	2.8
Bolonia Arkanic:       1,500       7.4       1,125       18.0       68       41.2       307       0.4       1,03       10.6       813       13.0       53       22.1       1         Maryland.       10,344       6,702       24.0       14.0       8,173       28.5       444       47.3       1,737       15.2       0,733       10.6       813       13.0       53       22.1       1         Dist, of Columbia.       45.201       8,442       22.0       30       60.8       15       71.4       3       12.2       6.43       41.3       577       45.8       15       71.4         West Virginia.       9,630       4,674       10.7       5.7       8,660       13.0       181       22.1       80       5.3       1.0       8,548       7.1       52.0       32.0       4.4       1,003       10.6       6.9       8,548       7.1       52.0       32.0       8.0       5.1       1.0       4,577       3.2       12.3       32.7       5       5       6.0       3.757       4.3       3.779       4.7       32.2       32.3       7.5       7.53       5.138       3.4       1.0       4.577       2.56       1.162 <td></td> <td>.28, 045</td> <td>13, 339</td> <td>16.9</td> <td>9. 3</td> <td>20, 848</td> <td>22. 0</td> <td>255</td> <td>26.7</td> <td></td> <td></td> <td></td> <td>. 1</td> <td></td> <td></td> <td></td> <td></td> <td>4, 293</td> <td>7.0</td>		.28, 045	13, 339	16.9	9. 3	20, 848	22. 0	255	26.7				. 1					4, 293	7.0
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		4										,		14, 100	10.4	100	20.2	2, 910	4.1
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $			í						41, 2	307	9.4	1,033	10,6	813	13.0	53	32.1	167	5.1
Virginia       15, 201       0.5       0.6       2.0.0       30       00.8       15       71.4       3       12, 5       43       41.3       27       46.8       15       71.4         West Virginia       9, 600       4, 974       11.7       5.7       8, 600       13.0       181       25.1       800       5.3       3, 846       4.7       3, 479       5.2       101       14.0       2         South Carolina       9, 306       4, 423       3.3       1.6       7, 999       5.7       247       38.1       1, 002       0.8       6, 5351       1.9       4, 577       3.2       210       14.0       22         Georgia       7, 556       3, 341       1.2.8       6, 90       16.0       637       22.6       617       3.7       2.4       3, 017       5.6       182       2.4       63       10.0       4.88       10.1       1.04       4, 508       1.9       3, 779       4.7       732       2.8       8       8       8.48       1.7       1.53       3.19       3.4       1.9       7, 44       4.5       173       2.6       1.161       1.3       5, 128       2.1       4.7       3.53       1.9					6					1, 737	15.2	6, 173	14.8					780	6.8
West Virginia					i i							43	41.3					1	4.2
North Carolina       9,008       4,423       3.3       1.6       7,096       5.7       247       38,1       1,002       0.8       5,361       1.9       4,577       3.2       212       32.7       5         Georgia									1					8, 548	7.1	526		958	2.0
South Carolina	North Carolina										1.1						14.0	268	1.7
Georgia	South Carolina	5, 176																562	0.4
Florida       7,559       3,341       12.8       6.2       6,305       16.0       637       22.5       617       3.7       6,158       10.4       5,199       1.9       3,779       4.7       334       23.8       88         EAST SOUTH CHNTRAL:       8,378       5,139       3.4       1.9       7,043       4.5       173       25.6       1,162       1.3       5,128       2.1       4,300       2.8       161       22.4       6         Alabama       5,182       2,987       2.0       1.2       3,699       4.4       179       29.7       1,004       1.0       4,400       1.2       2,584       2.9       161       22.4       6         Alabama       5,182       2,987       2.0       1.2       3,699       4.4       179       29.7       1,004       0.6       3,194       1.2       2,584       2.9       151       22.5       6       173       25.6       1,106       1.0       4,400       1.3       3,122       3.3       303       3.5       303       3.5       30.3       3       30.3       35       30.3       3.5       30.3       3.5       30.3       3.5       3.15       10.5       10.4<					·		1											57 <b>2</b>	0.6
LAST SOUTH CENTRAL:       8, 378       5, 139       3.4       1.9       7, 043       4.5       173       25.6       1, 162       1.3       5, 132       2.1       4, 360       2.8       161       22.4       6         Alabama       5, 132       2, 987       2.0       1.2       3, 969       4.4       177       25.6       1, 162       1.3       5, 132       2.0       4, 204       3.2       146       23.7       5.         Mississippi       5, 563       2, 983       1.8       1.1       4, 157       4.8       432       43.2       1, 004       0.4       4, 001       1.3       3, 122       3.6       303       30, 30       30 <td></td> <td>7, 559</td> <td>8, 341</td> <td>12.8</td> <td>6. 2</td> <td></td> <td></td> <td> }</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>846</td> <td>0.5</td>		7, 559	8, 341	12.8	6. 2			}										846	0.5
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				_							~	0,100	10. 3	0, 197	13. 2	038	19.0	422	2.5
A balasses       5,018       4,990       3.3       1.9       6,728       5.1       184       30.1       1,106       1.0       4,903       2.0       4,204       3.2       145       23,7       5         Mississippi       5,182       2,987       2.0       1.2       3,999       4.4       179       29.7       1,034       0.6       3,194       1.2       2,584       2.9       151       25.0       4         WEST SOUTH CENTRAL:       5       3,690       1.5       0.8       2,867       3.2       157       24.8       666       0.4       2,392       1.0       1,876       2.1       135       21.3       3         Arkansas       3,690       1.780       1.5       0.8       2,867       3.2       157       24.8       666       0.4       2,392       1.0       1,876       2.1       135       21.3       3         Arkansas       10,820       6,646       5.3       3.5       8,166       10.5       194       23.6       2,470       2.0       6,621       3.2       5.2       2.470       32.470       37.577       7.6       28,388       14.9       911       27.5       8.2         Moutana<			1 1		51					1, 162	1.8	5, 128	2,1	4, 360	28	161	22 1	617	0.7
Mississippi																		554	0.5
WEST SOUTH CENTRAL:       A. S.       A. S.       A. S.       4. S.<					10	- 1			1			3, 194						459	0.3
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	WEST SOUTH CENTRAL:	wy 6000		4.0	*• *	9, 137	4.8	432	43.2	1, 004	0.4	4,091	1, 3					576	0.3
Louisiana       4,964       2,185       3.1       1.6       3,207 $0.2$ $167$ $24.8$ $666$ $0.4$ $2,392$ $1.0$ $1,876$ $2.1$ $135$ $21.3$ $33$ Oklaborna       10,820 $6,646$ $5.3$ $3.5$ $8,156$ $10.5$ $194$ $23.6$ $2,470$ $2.0$ $6,621$ $2.2$ $5,234$ $6.7$ $152$ $18.5$ $1.1$ $1.8$ $21.3$ $33$ Mourrans $68,902$ $28,580$ $13.9$ $8.8$ $46,448$ $24.4$ $1,297$ $30.1$ $21,157$ $7.0$ $27,527$ $7.6$ $28,388$ $14.9$ $911$ $27.5$ $8,2$ Mourrans $5.382$ $3,055$ $11.3$ $5.3$ $4,811$ $12.2$ $171$ $33.3$ $900$ $7.7$ $2,608$ $5.5$ $2,124$ $6.7$ $152$ $18.5$ $1,115$ $27.5$ $8,224$ $38.5$ $29.6$ $1,735$ $16.4$ $5,227$ $12.5$ $4.418$ $14.5$ $10.5$ $18.7$ $79.7$ $70.685$ <t< td=""><td>Arkansas</td><td>3, 690</td><td>1,780</td><td>1.5</td><td>0.8</td><td>2 2.87</td><td>20</td><td>7 819</td><td>a</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Arkansas	3, 690	1,780	1.5	0.8	2 2.87	20	7 819	a										
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Louisiana				11					,	11							381	0.2
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		10, 820	-		+1													580	0.5
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		68, 902	38, 580		1.1						- 17	- 1						1, 135	0.9
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$					·							u(,021	4.0	28, 388	14.9	911	27, 5	8, 228	2.7
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Leiontana							171	33. 3	900	7.7	2,608	5.5	9 104			on /		3, 2
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Www.m.								29.5									369 701	8, 2 6, 6
New Mexico				1	11				1									108	3.1
Arizona       4,083       1,988       28.5       19.9       3,240       28.7       246       46.9       591       36.4       27.72       19.6       2,254       20.0       190       34.7       33         Utah       10,561       6,179       38.9       24.1       9,697       41.1       82       35.7       782       23.5       6,167       22.75       20.0       190       34.7       33         Nevada       1,215       580       25.3       18.3       994       25.9       100       44.1       121       27.2       748       21.7       6,727       24.3       49       21.8       30         PACIFIC	New Mexico											6, 183						1,176	5.7
Utah	Arizona				- 11							1, 626						195	3.1
Nevada         1,215         580         25.3         18.3         994         25.9         100         44.1         121         27.2         748         21.7         5,727         24.3         49         21.3         33           PACIFIC:         Washington         84,476         18,967         48.6         28.6         28.591         49.6         6566         51.4         5.249         43.5         20.78         20.2         17         625         22.6         66         29.1         10													11					328	14. I
PACIFIC: Washington							Ŧ									1		381	11.5
000 D1 4 D, 41 D, 249 43 5 0 794 00 0 1 17 mm 1 no m	PACIFIC;					803	1997. W	100	27.1	121	27.2	748	21.7	625	22,6	66		57	12.8
			18, 967	48.6	28.6	28, 591	49.6	624	51.4	010 3	42 .					:			
Oregon	Oregon	24, 265											29.2	17, 578	30.5	442	35.7	2, 706	22.4
California	Californía	97, 639	65, 928	72.0	58.0	76, 503							11					2,056	21.0 44.3

#### [Statistics for 1930 relate to April 1, and for 1920 to January 1]

TABLE 23.—PER CENT DISTRIBUTION OF ALL FARMS AND OF FARMS REPORTING TELEPHONES, ELECTRIC LIGHT, AND WATER, BY TENURE OF OPERATOR, BY DIVISIONS AND STATES, 1930

[All percentages for farms reporting based on figures shown in Tables 21 and 22. Total number of all farms and of farms reporting each item by tenure equals 100 per cent]

	1	LL FARM	3	T	ELEPHONI	18		INGS LIGH LECTRICIT			er Piprd Swelling			er fifed Athroom	
DIVISION AND STATE	Owners	Manag- ers	Ten- ants	Owners	Manag- ers	Ten- ants	Owners	Manag- ers	Ten- ants	Owners	Manag- ers	Ten- ants	Owners	Manag- ers	Ten- ants
United States	56.7	0.9	42.4	72. 0	1. 3	26. 7	82.4	2. 3	15. 8	78.4	2.4	19. 2	81, 2	8. 5	15. 3
GEOGRAPHIC DIVISIONS: New England	91.3	2,4	6.3	91. 5	3.1	5.5	91, 5	3.6	4.9	91.4	2,9	5.6	89.2	5.7	5, 2
Middle Atlantic	83.6	1.7	14.7	84.9	2.3	12.8	86.8	2.6	4.5 10.6	85.9	2.6	11.5	86.4	4.1	9,5
East North Central	71.8	0,9	27.3	72.4	1.0	26.6	80.9	1.5	17.6	76.2	1.5	22, 4	79, 3	2,4	18.4
West North Central	59,4	0.7	39.9	62, 9	0.7	36.4	77.7	1.1	21.3	70.1	1,1	28.8	76.6	1,4	22.0
South Atlantic	51.0	0.8	48,1	83.7	2.6	13.8	83.7	3.2	13, 1	82,4	4.4	13.1	83.4	5.5	11. 1
East South Central	43.8	0.3	55.9	78.5	0.9	20.6	82.8	2.4	14.8	80.6	3.6	15.8	82.4	4.9	12, 7
West South Central	37.2	0.5	62.3	66. 9	1.2	31.9	79.2	2,6	18.3	69.3	2,2	28.5	76.5	2.9	20.5
Mountain	74.1	1.5	24, 4	76.5	2.3	21. 3	83.1	2.0	14.9	81.2	2.6	18.2	84.0	3.4	12,6
Pacific	78.6	3.8	17, 7	82.7	3.4	13.9	82, 4	3.8	13.8	80.0	4.0	16. 1	81.8	4.4	13, 8
NEW ENGLAND:	94.2	1.3		94.9	1.0			2.1	2.1	94.6	1.9	3.6	92.5	3,9	3.0
Maine New Hampshire	94.2	2.4	4.5 5.3	94.9	1.6	3.5 4.6	94.8 92.3	3.8	3.1 3.9	92.4	2.8	4.8	89.3	6.3	4,4
Vermont	88.4	1.9	9.7	89.1	2.3	4.0 8.5	92.3 90.2	3.0	6.8	89.6	2.1	8.2	89.1	4.2	6,8
Massachusetts	90.6	3.7	5.6	90.3	4.8	4.9	90.2	4.7	4.8	90,9	4,1	6.1	88,8	6.5	4.6
Rhode Island	84.5	3.0	12.5	85.2	4.2	10.6	86.9	2.6	9.5	85.9	4.0	10.1	85.2	6.2	8.6
Connecticut.	90.6	8.1	6.2	89.9	4.1	6.0	90.0	4.4	5.6	89.9	4.2	5.9	87.6	6.6	5,8
MIDDLE ATLANTIC:		1		1	1			1 - 1		1				1	1
New York	85.1	1.7	13.2	86, 3	2.2	11. 5	88.1	2.5	9.4	.87.1	2.7	10. 2	87.4	4.1	8.0
New Jersey	81.8	2.6	15.6	81, 5	3.9	14.6	87.1	3.0	9.9	84.0	3.7	12.3	85.8	4.6	10.
Pennsylvania	82, 5	1.6	15,9	83. 9	2,2	13.9	85.2	2.7	12.2	85.2	2.3	12.5	85.7	3.9	10, 4
EAST NORTH CENTRAL:		ł		1	1 .			1	}				1	1	
Ohio	72.9	0.8	26.3	76.4	0.9	22.6	81.4	1,4	17.2	77.8	1.2	20.9	82.5		15.
Indiana	69.1	0.8	30.1	72.6	0.9	26.5	79.5		19.3	78.7	1.2	25.2	79.5		18.
Illinois		1.0	43.1	56, 9	1.0	42.1	70.7	1.7	27.6		1.6	35. 5	54 · · ·		29,
Michigan	83.6	0.9	15.5	85.6	1.2	18.2	86.4	1	11.6	84.8	1,8	13.3	11	l	1
Wisconsin	. 80.9	0.9	18.2	80.0	1.0	19.0	84.6	1.4	14.0	83.1	1,7	15.3	84.1	2.4	13.
WEST NORTH CENTRAL:					1			1			1			2.1	1 10
Minnesota		0.6	81, 1	70.7	0.6	28.7	81.2	1			1.3	20.5	81.1	1	
Iowa		0.9	47.3	53, 6		45.5	72.4		26.8	8	1.0	18.7	11		
Missouri		0.6	84.8	73.4	0.7	25.9	81.9	4	16.5		1	27.2	11		1
North Dakota		0.6	35.1 44.6	71.8		27.5	82, 5 78, 1		21.1	6		36.0		1	1
South Dakota			47.1	56,0	1	43.2	77.0	3	22,2	55	4	33.4		1	
Kansas			42.4	61.9		37.5	80,3	1		5 C	•	24.8	41		1
SOUTH ATLANTIC:			14.1												
Delaware	64.5	1.7	33, 8	71.9	3.3	24.8	84.2	3.6	12.2	75.0	4.5	20.5	78.7	5.1	16.
Maryland			1	11	1	18, 8	85, 5		11.2	78.9	4.8	16.8	82.1	5.2	12,
District of Columbia.		1 .	1	n	1 1	14.5	61.2	22.4	16.4	62.5	31. 3	6.3	62,8	84.9	2,
Virginia			28,1	86.1	2.6	11, 3	87.0	3.2	9.8	85.2		10.6			1
West Virginia		0.9	18.6	89.6	1.2	9.2	88.7	2.3	8.9			8.4	11		1
North Carolina	- 50.6	0.2	49.2	84.7	1.4	13.9	83, 8		1	- 84	1	1	11	· •	
South Carolina	- ( 34.5	0.4	65.1	80.7	3.1			1			1			1	
Georgia	- 81.2	0.6			1 .		11	1		71		1		1	1
Florida	. 66.8	4.8	28.4	83, 3	9.7	6.9	84.9	7.0	8.1	. 83.4	8,4	8.2	84.4	8.8	6.
EAST SOUTH CENTRAL:							85, 2	1 1.7	12.7	84.1	2.1	13.9	85.0	2.9	12.
Kentucky	- 63.9									3		1 .	1		
Tennessee				n					( ·						
Alabama				11			н	4			1		13		
Mississippi	. 27.1	5 0.8	16.2	1 10.1		18,2			1			1			1 -
WEST SOUTH CENTRAL: Arkansas	36.7	7 0.3	63.0	76.8	3 1.0	22.8	78.0	3 3.0	19.0	77.	4.8	18.0	78.	5.0	15.
Louisiana			- 1	· 11			1			il			n		
Oklahoma				- N			- 55		( ·						
Teras.				· B		1 .				21		1	11		
MOUNTAIN:		-   ~ '	1		1		1		1	1		1	1	1	-
Montana	74.	4 1.1	24.1	5 79.3	2 2.3	2 18.6	83.	1 3.				1	- 11 - L		
Idaho			3							11		1			
Wyoming			1											1	
Colorado			1		5 1.9					R .					
New Mexico			1		5 8.:	8 j 18.∶	14						- 14		
Arizona			1							11	1				
Utah			3 12, 5												
Nevada		5 6.	5 12.1	9 79.	1 8.	4 12.	5 82.	6 5.	0 12.	4 81.	8 8.	2 10. (	5 83,	6 8.	B . 7
PACIFIC:	- <b>1</b>						_							。 。	, , ,,
Washington				6 .		1	11				1	1	11	1	
Oregon										B			11		
California	76.	3 5.	7 18.0	0 82.	9 5.	4 11.	7    80.	2 5.	0 14.	8 78,	4 5.	2   16	n,   . 80.	a 10.	uj 14

### TABLE 24.—KIND OF ROAD—FARMS CLASSIFIED BY KIND OF ROAD ON WHICH LOCATED, WITH PER CENT DISTRIBUTION, BY DIVISIONS AND STATES: 1930 AND 1925

[Statistics for 1930 relate to April 1, and for 1925 to January 1]

		ARMS	C.	ncrete or	brick r	nad		**************************************				Sand-el	rt road		
DIVISION AND STATE	A1.4. #	ALMIJ			DIRCK IS	   	Asphalt	Macada	m road	Grave	l road		1		
		1		1930	1	1925	road, <sup>1</sup> 1930		1				1930 Sand-	Improved	Im- proved dirt,
	1930	1925	Total	Con- crete	Brick			1930	1925	1930	1925	Total	clay	dirt	1925
United States	6, 288, 648	6, 371, 640	215, 774	203, 594	13, 180	156, 484	72, 011	306, 397	316, 597	1, 279, 113	946, 057	1, 795, 485	156, 531	1, 638, 954	1, 998, 70
GEOGRAPHIC DIVISIONE:															
New England	124, 925	159, 489	3, 192	3, 185	7	2,068	1,892	18, <del>8</del> 94	19,074	31,460	38, 936	18, 905 39, 936	458	18, 449	35,65
Middle Atlantic	357, 603	418, 868	87, 109	35, 395	1,714	26,048	4,743	64, 821 91, 538	66, 883 101, 231	35, 833 395, 149	33, 832 339, 076	136, 557	1, 257 4, 915	38, 679 131, 642	63, 27 188, 52
East North Central West North Central	966, 502 1, 112, 755	1,051,572	68, 394 21, 840	60, 022 20, 704	8, 372 1, 136	52, 298 8, 735	5, 859 1, 115	7, 290	6, 420	209, 730	115, 906	428, 894	5, 102	423, 792	495, 41
South Atlantic	1, 058, 468	1, 108, 061	32, 553	31, 032	1, 521	24, 644	22, 704	37, 188	30, 672	64, 802	42,708	378, 004	109,792	268, 212	885,99
East Bouth Central	1,062,214	1,006,052	12, 038	11,875	163	6, 495	9,015	48, 221	64, 227	249, 862	152, 580	262, 756	19, 991	242, 765	281, 33
West South Central	1, 103, 134	1, 017, 305	14, 272	14,093	179	7, 548	17, 405	4, 822	7, 753	152, 481	112, 573	420, 528	13, 810	406, 718	410, 78
Mountain	241, 314	233, 392	4, 412	4, 409	8	4, 833	864	2, 748	831	51, 806	30, 954	71, 277	912	70, 365	82,77
Pacific	261, 733	265, 587	21, 904	21, 879	85	23, 767	8, 414	30, 875	19, 436	87, 990	79, 497	38, 628	296	38, 332	54, 95
NEW ENGLAND:	60 664	10 000		***		101	000	0.001	1 0.00	10 502	14 155	5, 157	186	4, 971	10 00
Maine New Hampshire	39, 006 14, 906	50, 033 21, 065	362 283	358 283	4	181	230 458	2, 901 2, 912	1, 669 2, 780	12, 503 2, 181	14, 155 4, 879	1, 811	180	1, 793	12, 39 8, 87
Vermont	24, 900 24, 898	21,085	675	675		106	19	2, 912 559	208	9, 354	10, 176	5,007	80	4, 927	6, 38
Massachusetts	25, 598	33, 454	626	623	8	792	915	7,678	8, 834	5, 217	7, 177	8, 525	121	8,404	7,73
Rhode Island	3, 322	3, 911	152	152		58	149	981	1, 232	397	237	544	1	543	1, 31
Connecticut	17, 195	23, 240	1, 094	1,094		894	121	3, 863	4, 351	1, 808	2, 312	2, 861	50	2, 811	3, 95
New York	1.59, 806	188.754	18, 463	17, 636	827	12, 202	2,844	38, 759	42, 787	14, 344	16, 767	16, 022	263	15, 759	30, 98
New Jersey	25, 378	29, 671	3,051	3,046	5	2, 378	930	4, 548	4, 608	6, 805	7,785	2, 547	184	2, 863	2,42
Pennsylvania	172, 419	200, 443	15, 595	14, 713	882	11,408	969	21, 514	19, 488	14, 684	9, 280	21, 367	810	20, 557	29, 86
EAST NORTH CENTRAL:									· ·		· ·				
Ohio	219, 296	244, 703	18, 139	11, 020	7, 119	17, 954	2,827	55, 104	55, 307	78, 598	66, 647	10, 194	590	9, 604	16, 40
Indiana	181, 570	195, 786	9, 669	9, 125	544	5, 887	1, 470	21, 958	29, 783	105, 936	105, 947	7, 161	371	6, 790	9, 33
Illinois	214, 497	225, 601 192, 327	19, 819	19, 130	689 15	13,026	196	8, 580	3, 443	44, 782	82,473	57, 492 25, 702	843 2, 124	57,149	81, 15
Michigan Wisconsin	169, 372 181, 767	192, 327	9, 577	9, 502 11, 185	11 5	7, 338 8, 093	1, 249 117	6, <del>4</del> 45 4, 451	7, 331 5, 367	79, 231 86, 632	72, 766	36,008	1,487	23, 578 34, 521	34, 82 46, 79
WEST NORTH CENTRAL:	104101	100, 100	*1, 100	11, 100	~	ay 000	1 44	1, 201	0,001	00,004	01, 210	00,000	1, 201	03,021	1 20,78
Minnesota	185, 255	188, 231	2, 279	2,259	20	1, 183	197	1, 355	258	75, 942	54, 998	52, 010	1, 318	50, 692	72, 15
Iowa.	214, 928	213, 490	8, 079	7,803	276	2, 280	126	730	466	47, 902	21, 157	65, 816	521	65, 295	85, 41
Missouri	255, 940	260, 473	6, 965	6, 903	62	2, 397	508	3, 816	4, 510	40, 275	28, 299	72, 048	416	71,682	93, 93
North Dakota	77, 975	75, 970	12	12		12	2	63	9	5, 142	1, 234	38, 995	97	38, 898	38, 88
South Dakota Nebraska	83, 157 129, 458	79, 537 127, 734	48 817	47 641	1 176	7 501	8 54	29 35	55 24	11, 346	4, 197 2, 254	42, 458	3 497	42, 455	40, 82
Kansas	106, 942	165, 879	3, 640	3,039	601	2, 349	222	1, 262	1,098	15, 310 13, 813	2, 254	72, 246 85, 321	2,250	71, 749 83, 071	75, 78
SOUTH ATLANTIC:	****	+++++,010	1	0,000	1			19 4000	1,000	10,010	0,101	00,041	2,200	00,011	00, 10
Delaware	9, 707	10, 257	1, 955	1,953	2	1, 502	93	914	679	688	121	1,729	115	1,614	2, 93
Maryland	43, 203	49, 601	4, 840	4, 830	10	3, 681	176	7, 097	6, 358	5, 147	4, 254	6, 439	214	6, 225	6, 16
District of Columbia.	104	139	13	13		12	29	29	52	16	28	8		. 3	1 1
Virginia West Virginia		193, 723		2,328	14	1,954	2, 810	14, 485	12,806	16, 432	11, 204	48, 769	12,602	81, 167	42, 11
North Carolina		90, 380 283, 482	3, 160 11, 491	2,751 11,150	409 331	2, 980 8, 651	1, 798	4, 685 4, 914	8, 388 2, 651	4, 724 17, 782	1, 153 12, 240	10,697	513 42,828	10, 184	12, 31 119, 59
South Carolina		172. 767	4, 454	4, 429	25	1,502	1,935	7, 914	2,031	5, 661	4, 316	69, 600	92, 828 25, 435	44, 165	70, 81
Georgia	255, 598	249, 095	2,918	2,907	9	1,735	2, 875	898	593	12,079	7,034	113,093	23, 161	89,932	115,28
Florida	58, 966	59, 217	1, 382	661	721	2, 597	6, 897	3, 384	4, 093	2, 328	2, 353	15,772	4, 924	10,848	17, 26
EAST SOUTH CENTRAL:															1.
Kentnoky		258, 524	1,798	1,769	29	1,203	2, 343	33, 222	42, 039	89, 576	25, 927	81, 893	814	31, 079	51,63
Tennessee Alabama		252, 669 237, 631	4, 950	4, 943	16	1, 729 356	4, 511	13,972	18, 100	56, 857	38, 886	45, 812	933	44, 879	74, 84
Mississippi	312,663	257, 228	3, 595	1, 64 8	111	8, 207	1,810	1,005 22	2,211	43, 214	24, 973 62, 794		12, 794 5, 450	82, 661 84, 146	71,96
WEST SOUTH CENTRAL:			1		1				4,617	1.10, 210	02,701	08,080	0, 100	0%, 190	00,30
Arkansas	242, 334	221, 991	3, 012	3, 011	1	8,654	8, 440	312	2,346	35,094	21, 045	67, 749	1, 918	65, 836	76, 24
Louisiana		132, 450		1, 469	19	299	530	495	182	62, 813	31, 816		681	37, 223	38, 59
Oklahoma		197, 218	3, 209	3, 124	85	1, 222	494	-85	175	1	3, 760		1, 809	101, 265	
Texas Mountain:	495, 489	465, 646	6, 563	6,489	74	2, 373	12, 941	3, 930	5, 080	53, 833	55, 952	211, 801	9, 407	202, 894	204, 58
Montana	47, 495	46, 904	47	47		34	1	70	27	5, 656	2, 391	17,657	40	17, 617	18, 67
Idaha		40, 592	174	172	2	182	367	1, 270	841		10, 625		832	9,858	
Wyoming	16,011	15, 512	33	33		53	9	82	15		630		4		
Colorado		58, 020	840	899	- 1	800	28	149	71		8, 049	1 -1	161	1 .	1 .
New Mexico		31, 687	3.57	357		3333	30	222	-	1	2, 455	6, 401	254	6, 147	5,0
Arizona	14, 173	10,892	1, 187	1, 187		1, 584	150	75	1		650		10		
Utah Nevada	27, 159	25,992	1,708	1, 768		1,764	292	812		1	5, 604	1 .	96	1 1 1	
PACIFIC:	8, 442	0, 883	71	1 11		113	8	98	19	478	550	992	15	977	1, 1
Washington	70, 904	73, 267	5,038	4, 957	81	5, 312	790	1,792	1,664	38, 222	32, 218	7,039	72	6, 967	10, 3
Oregon	55, 153	55, 911	1, 370	1, 358	2	1, 782		6, 175			20, 753		30		. I
California	135, 676	136, 409	18, 556	15, 554	2	16, 073	4,754	22,908					194	4 5	

<sup>1</sup> In 1925 asphalt was included with "All other,"

TABLE 24.—KIND OF ROAD—FARMS CLASSIFIED BY KIND OF ROAD ON WHICH LOCATED, WITH PER CENT DISTRIBUTION, BY DIVISIONS AND STATES: 1930 AND 1925—Continued

[Statistics for 1930 relate to April 1, and for 1925 to January 1]

	NUMI	ON-CON		TED	PER CENT OF ALL PARMS LOCATED ON																
IIVISION AND STATE		proved road		other Iding Ported)	Cone		brick 1		As-	Mace		Gri ro	ivel sd	Sand		nd impi road	roved	Un pro dirt	ved	(inc ing	not
0,	1930	1925	1930	1925 1	Total	1930 Con-	Brick		phalt road, 1930	1980	1925	1930	1925	Total	tal Sand- Im-		1925	1930	1925	repor 1980	1925
The second s												dirt									
United States	2,279,989	2,747,732	339, 879	206, 186	3.4	8.2	0, 2	2.5	1.1	4, 9	5.0	20. 3	14, 8	28.6	2.5	26.1	\$1.4	\$6. 3	48.1	5,4	3.2
GEOGRAPHIC DIVISIONS:	45, 588	60, 808	4,994	0.040			10		7.5	15.1	10.0	25.2	24.4	15, 1	0.4	14.8	22.4	36.5	38.1	4.0	1.8
New England Middle Atlantic	160,903	208,958	14, 258	2, 949 19, 877	2.6 10.4	2.5 9.9	(*) 0.5	1.3 6.2	1.5	15.1 18.1	12.0 16.0	10.0	8,1	10.1	0.4	10,8	15.1	45.0	49.9	4.0	4.7
East North Central.	231, 416	208, 958	37, 580	32, 651	7.1	6.2	0.9	0. 4 5. 0	1.8 0.6	10.1 9.5	9.6	40.9	32.2	14.1	0.5	13,6	17.9	23.9	32.1	3.9	8.1
West North Central.	401,660	450, 338	42, 226	34, 505	2.0	1.9	0.9	0.8	0.0	9.5 0.7	0.6	18.8	10.4	38.5	0.5	28.1	44.6	36.1	40.5	3.8	3,1
South Atlantic	457,086	589, 343	66, 131	34, 705	3.1	2,9	0.1	2,2	2.1	3.5	2.8	6.1	3.9	35.7	10.4	25.3	34.8	43.2	53, 2	6.2	8.1
East South Central.	419, 195	472, 522	61, 127	28, 891	1.1	1.1	(1)	0.6	0.8	4.5	6.4	23,5	15.2	24.7	1.9	22,9	28.0	39.5	47.0	5.8	2,9
West South Central	1 '	452, 117	71, 823	26, 529	1.3	1.3	(*)	0.7	1.6	0.4	0.8	13,8	11.1	38.1	1.3	36,9	40.4	38.3	44.4	6.5	2.6
Mountain	1	102, 245	18,200	11, 752	1.8	1.8	Ó	2.1	0.4	1.1	0.4	21.5	13, 3	29.5	0.4	29, 2	35.5	38.1	43.8	7.5	5.0
Pacific	1	73, 607	24,031	14, 327	8.4	8.4	(2)	8.9	3.2	11.8	7.3	33.6	29.9	14.8	0.1	14.6	20.7	19.0	27.7	9.2	5.4
NEW ENGLAND:		-			]	-			-			-			]					-	
Maine.	15,904	20, 835	1, 949	852	0.9	0.9	(2)	0, 3	0.6	7.4	3.3	32.1	28,3	13.2	0.5	12.7	24.8	40.8	41.6	5.0	1.7
New Hampshire		9, 281	654	143	1.9	1.9		0,5	3.1	19.5	13.2	14.6	23, 2	12.1	0.1	12,0	18.4	44.3	44.1	4.4	0.7
Vermont		10,725	545	209	2.7	2.7		0.3	0.1	2,2	0.7	37.6	36.6	20.1	0.3	19.8	23.0	35.1	38.6	2.2	0.8
Massachusetts		8,619	1,062	294	2.4	2.4	(2)	2,4	3.6	30.0	26.4	20.4	21.5	13.8	0.5	13, 3	23.1	25.7	25.8	4.1	0.9
Rhode Island	1 1	1,005	130	64	4.6	4.6		1.5	4.5	29.5	31.5	12.0	6.1	16.4	(2)	16.3	33.6	29.2	25.7	2.9	1.6
Connecticut	1	10, 343	654	1, 387	6.4	6.4		3.8	0.7	22.5	18.7	10, 5	9,9	16.6	0.3	16.3	17.0	39.5	44.5	3.8	6,0
MIDDLE ATLANTIC:	1		1	1	1	11					1	1		1	1	1			1		1
New York	63, 190	80, 846	6, 184	5, 166	11.6	11.0	0.5	6, 5	1.8	24.3	22.7	9.0	8.9	10.0	0.2	9.9	16.4	39.5	42.8	3.9	2.7
New Jersey		10, 310	1,025	2, 169	12.0	12.0	(2)	8,0	3.7	17.9	15.5	26.8	26, 2	1	0.7	9.3	8.2	25.5		4.0	7.3
Pennsylvania	1 .	117,802	7,049	12, 542	9.0	8.5	0.5	5.7	0.6	12.5	9.7	8.5	4,6	12.4	0.5	11.9	14.9	52.9	58.8	4.1	6,3
EAST NORTH CENTRAL												1	0-0			1	1	00 0	01 7	1	1
Ohio	1	77, 463	8, 896	10, 924	8.3	5.0	3.2	7.3	1.3	25.1	22.6	35.8	27.2	4.6	0.3	4,4	6.7	20.8	31.7	4.1	4.5
Indiana		39,778	7,630	5,054	5.3	5.0	0.3	3.0	0.8	12.1	15.2		54, 1	8,9 26.8	0.2	26.6	36.0	36.9	40, 1		2.0
Illinois	1 .	90,479	9,483	5,030	9.2	8.9	0.3	5.8	0.1	1.7	1.5	46.8		1	1.3	13.9	18.1	24.2	84.4	-	2.0
Michigan		1 .	6, 162 5, 418	3,853	5.7 6.2	5.6 6.2	(2) (3)	3.8 4.2	0.1	2.4	2,8	47.7		19.8	0.8	19.0	24.2		38.1		4.0
Wisconsin West North Central	. 37,951	63, 864	0,410	1,100		0.2		7. 4	0.1		}		1	1	1	1		1		1	
Minnesota		54,951	6, 637	4, 686	1.2	1.2	(2)	0.6	0.1	0.7	0.1	41.0	29.2	28.1	0.7	27.4	38.3	25, 3	29.2	3.6	2.5
Iowa	· ·	1 .	1 .	4, 539	3.8	3.6	0.1	1.1	0.1	0.3	0.2	22.3	9.9	30.6	0.2	36, 4	40.0	39.8	46.7	3.1	2.1
Missouri	1 .			8, 679	2.7	2.7	(2)	0.9	0.2	1.5	1.7	15.7	10.9	28.2	0.2	28.0	36.1	47. 2	47.1	4.5	3.3
North Dakota			1 .	4,726	(7)	(2)		(2)	(7)	0.1	(7)	6.6	1.6	50.0	0.1	49, 9	51.2	38.6	40.9	4.7	6, 2
South Dakota			1 1	2,406	0.1		(2)	(2)	(1)	()	0.1	13.6	5, 3	51.1	(7)	51.1	51.3	30.8			3.0
Nebraska		46, 559	4,802	2, 661	0.6	0.5	0.1	0.4	(2)	(*)	(1)	11.8		1	0.4	55.4	1				2.1
Kansas		63, 392	5, 219	6, 808	2.2	1.8	0.4	1.4	0.1	0.8	0.7	8.3	2.3	61.4	1.4	50.0	53.3	34.1	38, 2	3, 1	4.1
SOUTH ATLANTIC:	· ·			1	1										1		000 0		1		
Delaware		1 .			20.1		1	14.6	1.0	9.4	6.6				1.2	1	1	40.6	1	1	3.6 3.7
Maryland		1 .	1 .			11		7.5	0.4	16.4	13.0		1	1	0.5	1			1		6.5
Dist. of Columbia	4 .	I	3	1	- 11	11	1	8.6	27.9	27.9	37.4	1	1		7.4		- + · · ·	1	1		1
Virginia			1 .		51	- 11		1,0	1.6	5.7	3.7	•	1 1		0.6			1		1	
West Virginia				1 .	11	- 51	•	3.1	2.2	1.8		L L	1		61				1		1
North Carolina	4 -			1 .	11	- 13		0.9	1.2	1	5	3.0	1		11		1				1
South Carolina Georgia	1				12	H .	1	0.7	1.1	0.4		1	1		11	1	46.8	42, 9	47.7	5,1	2.3
Florida				1 .	13	55		4.4		- E			1	5		18.4	29.1	. 38.9	49, 1	I 10. 6	6.5
EAST SOUTH CENTRAL		,070	1 3,200					1	1				1	1					1		1
Kentucky		3 127, 861	20, 411	1 9, 863	0.7	0.1	(¥)	0.5													
Tennessee				5, 599	2.0	2.(	) (?)	0.7													
Alabama	101, 31	128, 315	5 12, 894	1 9, 810	0.7	0.1	7 (2)	0.1											1	1	-
Mississippi	. 95, 899	102, 331	12, 991	3, 619	1.1	1.1	l (²)	1.2	0.1	(*)	0.7	35.1	8 24.4	1 28.7	1.7	7 26.9	32.4	30.7	39,1	8 4.5	1.4
West South Central									1				5 9.1	5 28.0	0.8	3 27. 2	34.4	46.9	1 50.1	8 7.1	2.7
Arkansas				1	- 11 -	11		1.6		1	1										1
Louisiana								0.2	1	1	0.1	1 .		1	13	4					1
Oklahoma						- 11		0.6			- 1	1		1	- 11	1	1				1
Texas.	. 175, 77	6   186, 644	1   30.64	5   11,066	1.3	3   1.	8 (²)	0.0	1				-								
MOUNTAIN:	01 00	1 02 10	- 0.60	4 2,65	2 0.1	1 0.	, ]	. 0.1		. 0.	1 0.1	1 11,	9 5.	1 87. 2	2    O. 1	1 37. 1	1 39.8	3 45, (	) 49,	3 5,	7 6.7
Montana Idaho					- 11	- 1f .		0.4	•			1	1.1		- 13				3 24.		
Wyoming					ti				1	1 .	)	1	- 1		s [ m					1	1
Colorado					11	+1		1.4		0.1			8 13.	9   38.0		(			1		
New Mexico						- 13				0.	7 0.:										
Arizona					- 11	- 11				ı   0.		- 1 · · ·	· •							- A	
Utah						- 11	1	1	8 1.3						11				1		
Nevada					- 11			1 0 1	0.1	2 2.	8 0.	5 13.	9   14.	2 28.1	B   0,	4 28.	4 30.	4 46.	7   45.	3 5.	5 6.7
PACIFIC:	}				- 11	1										1 4	0 1.	0 10	7 00	7 =	8 5.P
Washington		3 19, 56			н.						1					1	. 1				
Oregon	11, 48							8.			1							0 18.		0 12.	
California	24,40	0 36, 81	2 16, 93	1 5,73	8    11.	5   11.	5 (2)	12.	2 3.	5 16.	9 8.	2 17.	0 18.	-1 10.	<u>•    </u> .	• • • • •		- 1 +0.		- 1.2	-1

<sup>1</sup>Including asphalt.

\* Less than one-tenth of 1 per cent.