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DISTRIBUTION OF INCOME BY STATES IN 1919

BY.

OSWALD W. KNAUTH

OF THE STAFF OF THE NATIONAL BUREAU OF ECONOMIC RESEARCH



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NO. 3

DISTRIBUTION OF INCOME BY STATES IN 1919

PREFATORY NOTE

The "Distribution of Income by States in 1919" is a by-product of the volumes on "Income in the United States" which have already been published by the Bureau. It is one of a series of studies which the Bureau is undertaking in connection with its main topics of research and which may later be collected in a formal volume. It is issued at this time in order to meet the special needs of many investigators concerned with the comparative capacity of the various states to bear increased taxes, to buy goods of various sorts, to absorb securities, etc. It also indicates the relative importance of agriculture in the different sections of the country.

The present study undertakes to distribute the aggregate income of the American people among the States on the basis of such official data and other indices as are available. This distribution is based on data for 1919, and no single year is "typical." The small incomes received by farmers in Montana after the bad weather of 1919 certainly do not represent average conditions and probably less striking anomalies exist among the figures for other States. However, the distribution must rest upon the State data gathered by the Census and those data are to be had only for 1919.

The reader who is looking for results, and is not interested in the method, will find these results presented in tabular form on pages 25 to 30.

Like all publications of the National Bureau of Economic Research, this paper has been submitted for criticism to the Bureau's directors and approved by them. Hearty thanks are due to members of the Board for their help in improving what remains at best a rough set of approximations.

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THE DISTRIBUTION OF INCOME BY STATES

in 1919

I. INTRODUCTION

In a previous publication of this Bureau, the income of the United States in 1919 was estimated at 66.7 billion dollars.¹ This estimate was based on the incomes received by gainfully employed persons, and was divided into the following categories—

INCOME OF THE UNITED STATES, 1919	
•	Billion dollars
Income of persons receiving over \$2,000 per year (excluding farmers and farm	
laborers)	\$18.90
Income of persons receiving under \$2,000 per year (excluding farmers and farm	
laborers)	32.65
Income of Farm Laborers	2.30
Income of Farmers	
Corporate Surplus	2.00
-	
Total	66.70°2

Many of the items on which these estimates for the country rest are available also by States. The Bureau of the Census has published in its advance bulletins the number of gainfully employed persons on January 1, 1920 and most of the details concerning farmers. The Bureau of Internal Revenue has published by States the amount of income reported under the income-tax law. Where direct data of this kind are lacking, it is possible to construct index numbers which can be used to distribute parts of the total National Income among the 48 States. Such State estimates, of course, cannot have the same accuracy as the larger estimate of the National Income, if for no other reason than that a small error is more important in a small total than it is in a large one.

For many purposes, it is quite as important to know the proportions of income received by States as it is to know the total for the country. Cer-

¹ Income in the United States, Volume II, chap. 26. Harcourt, Brace & Company.
² The amount distributed in the summary table below is 66.2 billion dollars; the difference of one-half billion dollars being the amount paid to soldiers which it was impossible to distribute among states in 1919.

tain details of this State distribution are particularly interesting: for example, the variations of per-capita income, the varying proportions of farmers' income to the total income, and the distribution of farmers' income.

II. THE METHOD

A. The Income of Persons Receiving Over \$2,000 per Year. (Excluding Farmers)

The income of persons receiving over \$2,000 per year (excluding farmers) has been treated in the following manner: The amount shown for each State in the official Statistics of Income, 1919, has been listed. This amount requires adjustment for the present purpose in three ways: first, it includes a part, but only a part, of the incomes in the ranges between \$1,000 and \$2,000; second, it includes income due to agriculture; and third, it does not include income which should have been, but was not, reported. In order to make these adjustments, (1) the amounts reported in the income-range \$1,000-\$2,000 have been subtracted from the total of each state; (2) the amount reported as due to agriculture, \$1,211 million, has been apportioned according to the percentage of farmers' incomes in each state and the ratio which the average farmers' incomes of each state are to the average farmers' incomes of the whole country; and (3) the resulting income in each state as left by these two adjustments has been raised to bring the sum for all the States to the estimated national total of \$17,500 million. (See Income in the United States, volume II, Chapter 22.) The last adjustment appears to be the least satisfactory; it involves the tacit assumption that the evasion of income taxes by failure to report and under-reporting is uniform in all states—an assumption which may or may not be valid.1

Next the non-taxable income must be apportioned. The income from homes owned by the individuals occupying them, amounting to 700 million dollars, has been distributed among the States according to the percentage of the total income-tax payers resident in each State. The remaining tax-exempt income, mostly interest on exempted bonds, amounted to 710 million dollars in 1919. This sum has been apportioned according to the total income of persons having \$25,000 or more per year in the several States. The reason for this is that the exempt income appears to be highly concentrated in the higher range of incomes.

^{1 &}quot;I am enclosing my approval of the publication of the section on the Distribution of Income by States. I want to place myself on record, however, as believing that the facts are not in accordance with the presumption that there is an equal amount of failure to report and of under-reporting in every state. In my opinion there is evidence in the income tax statistics themselves that there are very large differences in the degree of accuracy of these figures in different states. Nevertheless, the question is so difficult, and is in particular so full of political dynamite that I do not see that the Bureau could possibly adopt any other course than the one it has followed."—Allyn A. Young.

DISTRIBUTION OF NON-AGRICULTURAL INCOMES OVER \$2,000 BY STATES

TABLE 1

1919 (Thousands of Dollars)

State	Reported total over \$2,000	Estimated farmers' income	Reported, less farmers' income	Adjusted for under- reporting	Tax-exempt income from homes	Other tax- exempt income	Total
		N	New England Division	no			
Maine	\$ 93,741 62,889	6,559	\$ 87,182 62,107	\$ 96,667 68,864	\$ 4,550 3,360	\$ 2,403 1,633	\$ 103,620 73,857
Vermont	38,801 047,364	2,762	36,039 945,818	39,960 1 048,723	35,210	1,300	43,010
Rhode IslandConnecticut.	120,132 269,666	1,193	119,982 268,473	133,036 297,683	5,250 14,490	7,128	145,414 323,710
		M	Middle Atlantic Division	sion			
New York	3,099,690	32,781	3,066,909	3,400,589	89,670	236,998	3,727,257
New JerseyPennsylvania	1,482,358	25,743	1,456,615	1,615,095	70,770	73,144	1,759,009
		East	East North Central Di	Division			
Ohio. Indiana	899,500 352,018	49,216	850,284	942,795 345,989	40,460	34,477 6,733	1,017,732
Illinois.	1,468,262	97,055	1,371,207	1,520,394	55,440 23,870	53,803 25,283	1,629,637
Wisconsin	275,289	38,075	237,214	263,023	13,860	5,859	282,742
	-	West	North Central	Division			
Minnesota	314,568	40,632	273,936	303,740	16,240	8,839	328,819
Missonni	491,582	110,218	381,364	422,856 413,462	17,570	4,491 13,930	444,917
North Dakota.	62,890	22,155	40,735	45,167	3.570	236	48,973
South Dakota	119,766	30,552	89,214	98,920	5,040	541	104,501
Nebraska	242,528	61,831	180,697	200,357	11,480	3,102	214,939
Kansas	7,7,007	99,900	1/9/800	199,309	l orotor l	5,55/	212,710

		7	THE TOURSE	ncon			
State	Reported total over \$2,000	Estimated farmers' income	Reported, less farmers' income	Adjusted for under- reporting	Tax-exempt income from homes	Other tax- exempt income	Total
		Sc	South Atlantic Division	sion			
Delaware	\$ 52,758 329,624	\$ 1,863 5,280	\$ 50,895	\$ 56,432	\$ 2,170	\$ 4,001	· \$ 62,603
District of Columbia.	122,725		122,725	136,077	7,700	4,637	148,414
:	205,833	13,518	192,315	213,239	9,940	4,539	227,718
West Virginia	124,501	3,725	120,776	133,916	5,950	3,248	143,114
North Carolina.	150,103	33,503	116,600	129,286	4,900	5,313	139,499
Georgia	195,200	32,945	163,455	113,109	7,770	2,419	120,488
Florida	91,833	2,621	89,212	98,918	4,060	2,155	105,133
		East	East South Central Division			•	•
Kentucky	191,608	14,692	176,916	196,164	7.840	3.548	207.552
Tennessee	170,615	13,561	157,054	174,141	6,650	5,358	186,149
Alabama	113,702	13,374	100,328	111,243	5,390	2,487	119,120
Mississippi	92,086	16,028		84,333	3,150	3,180	90,663
		West	South Central	Division			
Arkansas	113,768	18,206	95,562	105,959	4,480	1.790	112.229
Louisiana	173,160	8,975	164,185	182,048	6,930	7,952	196,930
Oklahoma	219,372	55,193	164,179	182,042	8,050	5,684	195,776
Техав	559,243	104,142	455,101		23,170	16,159	543,945
			Mountain Division				
Montana	78,589	- 63 	78,526	87,070	2,600	899	93,338
Idaho	54,699	11,724.	42,975	47,651	2,800	300	50,751
Wyoming	41,375	2,034	39,341	43,621	2,380	591	46,592
Colorado	160,118	17,663	142,455	157,954	7,560	3,761	169,275
New Mexico	26,765	2,512	24,253	26,892	1,400	272	28,564
Arizona	49,651	5,674	43,977	48,762	2,660	781	52,203
Utan. Nevada.	50,778 14,046	2,228	45,550	50,506 13,288	2,800	483 72	53,789 14,480
		1332(1	Pacific Division		-		00161
Washington	244 633	93 817	220.816	944 841	14 980	4 660	964 400
Oregon	137,390	9,565	127,825	141,732	6,510	3,875	152,117
California	832,028	82,834	749,194	830,706	35,000	27,356	893,062
Total	\$16,989,869	\$1,211,677	\$15,778,192	\$17,494,925	\$697,690	\$710,000	\$18,902,615

B. Income of Persons Receiving under \$2,000 per year. (Excluding Farmers)

In apportioning the total sum of wages received by persons having less than \$2,000 per year it is necessary to allow for: (1) differences in the general level of wages in different States, and (2) differences in the relative numbers of persons following high-paid and low-paid occupations. A sample table is appended to illustrate the method used.

The number of persons gainfully employed on January 1st in each of the eight main groups under which the Census classifies the occupation returns is reported by States in the Census of 1920. From these data and from the estimated number of persons having incomes over \$2,000, it is possible to approximate the number of persons in each occupation group in each State having incomes less than \$2,000. To this end, the number of persons in each occupation group as reported by the Census has been adjusted in the ratio applied to that occupation group in the estimate for the whole country. These reducing ratios are computed from Tables 23E, F, and G of *Income in the United States*, volume II, chapter 23. From this point forward, the general method of estimating the total wages in each State is the same as that used for the United States. This procedure consists in multiplying the number of persons in each occupation group by the average wages for the corresponding group, and adding together the products in order to find the total wages in each state.

While this computation gives the estimated total payments for personal services, it does not show the total income from all sources. In Chapter 23 of *Income in the United States*, it was estimated that in the case of persons receiving less than \$2,000 per year, income from other sources was about 9.5 per cent of the income from wages. This percentage was therefore added to wages in order to arrive at the total income in each State of persons receiving less than \$2,000. The results are shown in the summary table.

The following form was used for estimating the total income of wage and salary earners in each State. A complete transcription of the original data used in making the estimates would be extremely cumbersome and would serve no useful purpose. The original tables, however, are open to the inspection of anyone who is interested.

TABLE 2

TABLE ILLUSTRATING METHOD OF FINDING TOTAL WAGES AND SALARIES IN EACH STATE RECEIVED BY ALL PERSONS HAVING INCOMES LESS THAN \$2,000 (EXCLUDING FARMERS AND FARM LABORERS)

New York

	Number of persons in each occupa- tion group	Percentage in each group re- ceiving in- comes less than \$2,000 per year	Number of persons re- ceiving less than \$2,000 per year	United States average wages for each group	Ratio of wage rates in this State to wage rates in United States States	Average wages in State for each group	Total wages in State
Mining. Manufacturing. Transportation. Trade. Public Service. Professional. Domestic.	7,644 1,755,927 404,723 592,145 100,394 229,211 470,715 565,944	84.3 84.5 84.5 84.3 84.3 66.7	6,444 1,692,714 357,775 382,526 84,632 139,969 438,706 377,484	1,300 1,250 1,250 1,145 893 1,200 1,200	933 1.055 1.030 1.030 1.033 1.033	\$1,213 1,224 1,288 1,191 928 1,247 1,247 1,266	\$ 7,816,572 2,071,881,936 460,814,200 455,588,466 78,538,496 174,541,343 407,996,580 477,894,744
Total	4,189,703		3,480,250			\$1,191	\$4,145,072,337

¹ The total wages must be converted into total income. In Chapter 23, volume II of *Income in the United States*, it was found that the average ratio between wages and income for persons having incomes of less than \$2,000 was 1:1.095. Total income may therefore be found by multiplying \$4,145,072,337 x 1.095 which equals \$4,593,154,600.

As said, to estimate the annual wages of persons in each occupation group, indices were found for each State, and applied to the average annual wages for each occupation group in the whole country. In this way, the different wage levels obtaining in different States, as well as the different occupations of the gainfully employed in different States were given their due weight.

The sources from which the varying income from wages imputed to different States were drawn are as follows:—

- (1) Mining. The Census of Mines and Quarries, 1919, gives the total wages paid and the number of miners paid in each State.
- (2) Manufacturing. The Census of 1919 gives the number employed in manufacturing, and also the total wages paid in each State.
- (3) Transportation. The reports of the Interstate Commerce Commission show the wages paid for similar work in three divisions of the country—Eastern, Southern, and Western. These, together with similar data furnished by the American Telephone and Telegraph Company, have been used as a basis for adjusting wage rates by States. The number of persons employed is estimated from the Census of Occupations, 1920.
- (5) Public Service. This is a small group, for which no systematic wage data exist. The relative wages have been apportioned in general conformity with the other groups. The estimates of numbers employed are based on the Census of Occupations.
- (6) The relative wages and salaries of persons listed under Professional Service in different States have been apportioned according to an index constructed from relative rates of salaried employees in manufacturing and mining. Again, the Census of Occupations gives a basis for estimating the numbers of persons.
- (7) No systematic data exist in the field of Domestic and Personal Service. Owing to this lack, an index based on manufacturing wages was used to determine the relative rates in each State; and the number of persons employed was estimated from the Census of Occupations.
- (8) Clerical. The relative wages of clerks in manufacturing and transportation have been used as an index for computing the rate of wages in different States. The number of persons employed is estimated from the Census of Occupations.

These data make possible a reasonably accurate estimate of the differences in wage levels that exist among the 48 States.

C. Income of Farm Laborers.

Farm laborers form a problem by themselves. Their wages, as shown in the Year Book of the Department of Agriculture, vary widely from one State to another. The rates used here are average monthly wages without board, and thus furnish material only for an index of variations. The average wage of farm laborers in 1919 was estimated at \$518, and the total wages at \$2,302 million. This total for the entire country was apportioned among the States according to the index of variations made by taking the products of the number of farm laborers in each State times the average monthly wages. These results appear in the summary table.

D. Income of Farmers.

The distribution of the total income of farmers in 1919 among the various states is the most difficult and complicated of the various subdivisions with which we have to deal. Without an actual census of farmers' incomes, the extraordinary diversity of production and costs presents problems which can only be solved in rough approximations. In addition the reports of the Department of Agriculture contain duplications which may be eliminated only in a broad way. These reports do not differentiate between the crops which are sold as crops and those which are sold or used to feed animals.

While such corrections may be made for the country as a whole with a tolerable degree of accuracy, errors are apt to loom large in the subdivisions by States. Since it has not been possible to divide all the items of product or of expenses among the States, the larger ones only have been chosen and used as an index of the proportions in which the total farmers' income of \$10,850 million was divided. As a matter of fact the total resulting from the use of this index came very near the national total, being \$10,978 million; but the closeness of these figures is largely a matter of chance, for among the products of each State no account has been taken of the direct income received by the farmers, such as milk, butter, vegetables, home rent, etc. In the expenses no account has been taken of seed, horses sold, feed purchased, etc. These items, however, are of relatively minor importance and do not affect the validity of the index to any marked degree. The items comprising the index are by all odds the largest affecting farmers' income. And they are also the items concerning whose distribution by States we have the most accurate information. Most of them are reported in the Census of 1920 and the others, for the most part, rest on Census data.

The method of attack has been to take as a basis for the farmers' income of each State the crops raised. These are definitely recorded for each State, and form, for the country as a whole, about nine-tenths of the value

product of farmers. To the value of these crops must be added the value produced by (1) animals slaughtered and (2) animal products over and above the value of those crops that are fed to animals.1

The value added by animals slaughtered has been based on a large number of reports of the costs of producing beef and hogs. These indicate that the ratio of feed costs to other costs is about four to one. On the assumption that total costs are roughly equal to total value, the indication is that about twenty per cent of the value of animals slaughtered is an addition to the value of the crops that have been fed to these animals.

While this rule seems to hold for most of the country, an exception must be made in the range states (Texas, Oklahoma, Montana, Idaho, Colorado, Wyoming, New Mexico, Arizona, Utah, and Nevada) in which the value added by animals above the crops they are fed is estimated at fifty per cent of their total value. This change in ratio is due to the fact that crops (range grass) on which these cattle are largely fed is not counted by the Census in its value of total crops. Of course, the same remark holds true concerning all animals which are out at pasture; but it is "more" true of the range States. That there is a distinct difference between these states and the rest of the country is indicated by the fact that in all other states there are 54,624,057 hogs and 50,822,210 cattle; whereas in the range states there are 4,722,352 hogs and 15,830,349 cattle. In the rest of the country, therefore, hogs and cattle are roughly equal. In the range states there are more than three times as many cattle as hogs. In addition, there is little fattening of cattle in the range States.

Having determined on the proportion of the value of animals slaughtered which may be considered a net addition to the value of crops which they are fed, it remains to determine the value of animals slaughtered.

¹ Some hypothetical examples will explain this procedure.
(a) If all farmers in state A raised feed worth say, a million dollars; and sold it to farmers in state B, who raised no feed at all, but only fattened cattle, the record might stand

State A produces crops worth	\$1,000,000
State B produces cattle of gross value	1,250,000
State B produces cattle of net value (20%)	250,000
Total value of agriculture in both states $(A + B)$	
The million dollars worth of feed bought by the farmers of S	tate B from those of
State A is thus counted out.	
7 \ TO	

(b) If one set of farmers in one state sell feed to another set of farmers of the same state, who raise only cattle, then the record stands

who laid only cault, unch the record blands	
Value of crops raised	. \$1,000,000
Value of cattle slaughtered	. 1.250.000
Net value of cattle slaughtered	. 250,000
Income of Farmers	. 1.250,000
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(c) If all farmers raise crops and feed them to their own animals, then the record stands

Value of crops raised	\$1,000,000
Value of animals slaughtered	1.250.000
Net value of animals slaughtered	. 250,000
Income of Farmers	. 1,250,000
Net value of animals slaughtered	. 250,000

figure is not included in the Census; but the Bureau of Animal Industry reports the total production of meat; and the average values of the different kinds of animals slaughtered are shown in the Department of Agriculture Year Book for 1920. From these data the total value of animals slaughtered in the United States may be estimated as follows:

			TABLE	3		
TOTAL Y	VALUE	OF	ANIMALS	SLAUGHTERED	IN	1919 1

	U.S. inspected	Other	Total number slaughtered	Average value	Total value (thousand dollars)
Cattle		3,545,100 5,072,000 3,573,700 160,100 24,868,500	13,635,084 9,041,019 16,264,817 247,480 66,680,330	\$44.22 25.00 11.63 10.00 22.00	\$ 602,943 226,025 189,160 2,475 1,466,967
Total					\$2,487,570 2

Twenty per cent of the value of animals slaughtered, \$2,487,570,000, is \$497,514,000, and when a correction is made for the fifty per cent which is attributed to the value of animals in the range States, this total becomes \$652,952,000. This sum therefore is counted a net addition to the value of the total crops produced. In order to divide this among the various States the total value of beef cattle, sheep, goats, and swine was taken for each State and the \$652,952,000, was divided in accordance with this index. The assumption underlying this division is that the value of animals slaughtered in the States varies in the same ratio as the value of the animals in those States; an assumption which appears to be in general accord with the facts.

The values of animal products are reported by States in the Census; but, as in dealing with meat, it is necessary to determine what proportion of this value may be considered a net addition to the crops that are used to produce it. On this point the evidence is less clear than in the case of meat production. A study of the cost reports of the Bureau of Farm Management indicates that about sixty per cent of the costs may be attributed to feed and about forty per cent to other items. This proportion is broadly corroborated by Mr. H. A. Wallace, Editor of Wallace's Magazine and by Mr. F. A. Peck, formerly of the Bureau of Crop Estimates and now with

¹ Supplied through the courtesy of the Bureau of Animal Industry.

² The total value of animals sold and slaughtered on farms is given in an advance bulletin of the Census at \$3,511,201.21. This figure, however, contains considerable duplication, since many animals are sold twice; it is only in the range States that there is little re-selling and in these States the values reported by the Census agree fairly closely with those used.

the University of Minnesota. If we accept forty per cent as the net addition and apply it to the total value of animal products of \$2,667,072,273,1 then the net addition is found to be \$1,067,000,000. Since the total value of animal products is reported by States, the amount to be added on this account can be computed directly.

A broad check upon the total value added by "Animals Slaughtered" and "Animal Products" may be had by comparing the results obtained by the preceding method on the one hand and the net value as found by subtracting the crops fed to animals from the total value product of those animals on the other hand. These crops are mainly hay, corn, barley and oats, and the percentage of each of these crops sold is reported in the Census. From the total amounts fed must further be subtracted for our present purposes the value of crops fed to horses and mules on the farms. The amounts fed to horses and mules are estimated at two thirds the Army ration—12 lbs. oats and 14 lbs. hay for horses, and 9 lbs. oats and 14 lbs. hay for mules.

This comparison works out as follows:

(1) Value added by animals slaughtered	
Total value added	\$1,719,780,909
(2) Total value of animals slaughtered and animal products	\$1 525 245 796

The two methods of estimating the value product added by animals and animal products over and above the crops fed to animals differ by about 11 per cent—not a wide difference as such matters go—and indicate that the percentages used in estimating the net addition to animals slaughtered and animal products are tolerably reliable.

¹ Summary of the Census of Agriculture, 1919 and 1920. Table 26, page 15.

MIDDLE ATLANTIC DIVISION

TABLE 4 DISTRIBUTION OF FARMERS' INCOME BY STATES 1919

NEW ENGLAND DIVISION

		M E W	NEW ENGLAND DIVISION	DIVISION	(Thousa	(Thousands of dollars)	_	WIDDLE ATLANTIC LIVISION	CLIVISION
Income	Mame	N. H.	Vt.	Mass.	R. I.	Conn.	N. Y.	N. J.	Pa.
Value of crops.	100,152 26,075	23,509 14,681	48,000 31,573	53,701 33,851	5,340 5,368	44,492 20,862	417,047	87,464 31,483	410,934 156,012
(b) Net value added by animal products (40% of above)	10,430	5,872	12,629	13,540	2,147	8,345	90,186	12,593	62,405
salue or beer carue, nogs, sneep and goals	21,405	12,544	30,636	22,693	3,354	15,996	218,248	21,103	150,391
	2,109 112,691	1,236 30,617	3,017 63,646	2,236 69,477	331 7,818	1,577 54,414	21,507 528,740	2,079 $102,136$	14,820 488,159
Expenses Number of draft animals Per cent of all draft animals in State	94,794 .00376	38,442	77,832	50,937	6,615	38,994 .00155	543,494 .02156	78,326 .00311	561,047 .02226
Expenses of feed. Fertilizer	7,783	3,167 526	6,396 857	4,181 3,907	380 380 380	3,209 4,894	44,629 15,067	6,438 10,743	46,078 15,628
Labor. Therest on mortgage	9,641	4,521	7,712	16,577	2,102	13,203	64,325 7,859	18,074	42,112 4,650
Maintenance Total Expenses.	11,633 37,950	5,207 13,769	9,741 25,979	13,929 39,928	1,429 4,536	10,233 32,557	80,159 212,039	13,360 49,972	76,442 184,910
Total recorded income minus total recorded expenses	74,741	16,848	37,667	29,549	3,292	21,857	316,701	52,164	303,249
Final income $(\frac{10850}{10978}$ of above) 3	73,867	16,651	37,226	29,203	3,253	21,601	312,996	51,554	299,701
Number of farmsAverage income per farm	48,257	20,523	29,075	32,001	4,083	22,655	193,195	29,702	202,252 1.482
	5,609	5,782	7,661	9,389	8,238	83.8	9,879		8,551 8,551

¹ Advance Bulletin of the 1920 Census of Agriculture, p. 53. ² Advance Bulletin of the 1920 Census of Agriculture, p. 41. ³ Explained in text.

¹ Advance Bulletin of the 1920 Census of Agriculture, p. 53. ² Advance Bulletin of the 1920 Census of Agriculture p. 41

TABLE 4—Continued

		East Nor (Th	EAST NORTH CENTRAL DIVISION (Thousands of dollars)	IVISION F8)	
Income	Ohio	Ind.	ij	Mich.	Wis.
(A) Value of crops. Value of animal products 1 (B) Net value added by animal products (40% of above) Value of beef cattle, hogs, sheep and goats 2 (C) Value added by animals slaughtered. Total Income (A + B + C).	607,038	497,230	864,738	404,014	445,348
	155,588	99,350	142,351	111,076	213,022
	62,235	39,740	56,940	44,430	85,209
	186,111	165,291	280,456	135,039	243,941
	18,340	16,289	27,637	13,307	24,040
	687,613	553,259	949,315	461,751	554,597
Number of draft animals. Per cent of all draft animals in State. Expenses of feed. Fertilizer Labor. Interest on mortgage. Maintenance. Total expenses.	842,318 . 03343 69,200 13,206 46,428 7,146 79,290 215,270	817,591 03244 67,151 8,735 32,867 6,105 57,848 172,706	1,465,126 1.05814 120,350 2,996 80,390 10,847 97,032 311,615	611,393 .02426 50,218 4,873 32,168 8,646 59,989 155,894	687,648 .02729 .02729 .56,490 .780 .48,137 .18,792 .73,606 .197,805
Total recorded income minus total recorded expenses	472,343	380,553	637,700	305,857	356,792
	466,817	376,101	630,239	302,278	352,618
Number of farms. Average income per farm. Average acreage per farm. Average value per farm.	256,695	205,126	237,181	196,447	189,295
	1,819	1,834	2,657	1,539	1,863
	91.6	102.7	134.8	96.9	117.0
	12,060	14,831	28,108	8,976	14,143

TABLE 4—Continued

			West North (Thous	WEST NORTH CENTRAL DIVISION (Thousands of dollars)	Division rs)		
Income	Minn.	Iowa	Mo.	N. Dak.	S. Dak.	Nebr.	Kans.
(A) Value of crops. Value of animal products 1. (B) Net value added by animal products (40% of above).	506,020 113,237 45,295	890,391 130,250 52,100	559,048 105,601 42,240	301,783 30,980 12,392	311,007 35,739 14,296	519,730 54,612 21,845	588,923 80,323 32,129
Value of beef cattle, hogs, sheep and goats? (C) Value added by animals slaughtered. Total Income (A + B + C)	209,256 20,621 571,936	447,885 44,140 986,631	236,846 23,340 624,628	80,378 7,922 322,097	173,622 17,110 342,413	241,695 23,820 565,395	187,612 18,489 639,541
Expenses Number of draft animals. Per cent of all draft animals in State. Expenses of feed.	943,032 .03742 77,459	1,468,042 .05826 120,598	1,295,265 .05139 106,377 3,941	863,555 .03427 70,939	832,151 .03302 68,351	1,061,243 .04211 87,108	1,326,159 .05263 108,944
Labor. Interest on mortgage Maintenance. Total expenses.	49,811 13,996 73,193 214,892	70,698 26,940 123,192 342,024	40,155 13,204 60,704 224,381	37,064 7,255 32,339 147,717	32,599 5,303 35,387 141,674	46,366 9,638 53,499 196,736	67,873 6,595 50,915 235,306
Total recorded income minus total recorded expenses. Final income ($\frac{10850}{10978}$ of above)	357,044 353,705	644,607 637,065	400,247 395,564	174,380 172,340	200,739 198,390	368,659 364,346	404,235
Number of farms. Average income per farm. Average acreage per farm. Average value per farm.	178,478 1,982 169.3 21,221	213,439 2,985 156.8 39,941	263,004 1,504 132.2 13,654	2,218 2,218 466.1 22,651	74,655 2,657 464.1 37,835	124,421 2,928 339.4 33,771	165,286 2,417 274.8 19,982
1	Advance Bulle	Advance Bulletin of the 1990 Census of Agriculture	Census of Ag	ء ا	53		

¹ Advance Bulletin of the 1920 Census of Agriculture, p. 53. ² Advance Bulletin of the 1920 Census of Agriculture, p. 41.

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	Fla.	80,257 7,62 2	3,049	20,965	2,066 85,372	80,616	.00320	10,317	10,830	6,658	35,371	50,001	49,416	54,005	915	6,116
	Ga.	540,614 36,401	14,560	56,330	5,552 560,726	506,854	.02011	46,196	19,017	30,420	140,011	420,715	415,793	310,732	1,338	4,366
	S. C.	437,122 20,354	8,142	31,101	3,065 448,329	297,681	.01181	52,547	15,336	21,439	115,605	333,724	329,819	192,673	1,712	4,946
ISION ITS)	N. C.	503,229 35,860	14,344	45,661	4,500 522,073	428,005	.01698 35 140	48,797	12,036	27,320	125,220	396,853	392,210	269,763	1,454	4,634
SOUTH ATLANTIC DIVISION (Thousands of dollars)	W. Va.	96,537 26,333	10,533	42,884	4,226 111,296	184,129	00731	1,709	5,816	12,187	35,505	75,791	74,904	87,289	858	5,687
South At (Thousa	Va.	292,842 46,311	18,524	66,187	6,522 317,888	409,295	.01624 33 617	17,278	21,809	31,823	106,989	210,899	208,431	186,242		6,425
	D. C.	307 119	48	189	19 374	343	.000014	38	173	153	374				0,70	29,059
	Md.	109,811 25,522	10,209	25,802	2,542 122,562	173,962	.00690	7,610	16,721	15,566	55,719	66,843	66,061	47,908	1,379	9,678
	Del.	23,059 5,779	2,312	4,036	398 25,769	37,191	.00148	1,222	2,808	153	7,501	18,268	18,054	10,140	1,780	7,903
	Income	(A) Value of crops. Value of animal products 1	products (40% of above)	sheep and goats	slaughtered	Expenses Number of draft animals.	Per cent of all draft animals in State. Expenses of feed	Fertilizer.	Labor.	Maintenance	Total expenses	Total recorded income minus total recorded expenses.	Final income $(\frac{10850}{10978}$ of above)	11 .	Average income per farm	Average value per farm

¹ Advance Bulletin of the 1920 Census of Agriculture, p. 53. ² Advance Bulletin of the 1920 Census of Agriculture, p. 41.

TABLE 4—Continued

	EAST &	OUTH CEN	EAST SOUTH CENTRAL DIVISION (The	Non (Thousands of	WEST dollars)	OUTH CENT	SOUTH CENTRAL DIVISION	Z
Income	Ky.	Tenn.	Ala.	Miss.	Ark.	La.	Okla.	Tex.
(A) Value of crops. Value of animal products 1	348,655 50,928 20,371	318,285 50,961 20,384	304,349 30,427 12,171	336,207 27,328 10,931	341,565 30,084 12,034	206,183 13,613 5,445	549,249 49,888 19,955	1,071,527 87,762 35,105
(40% of above) Value of beef cattle, bogs, sheep and goats 2 (C) Volue of ded by animals alough.	75,793	75,116	48,154	55,823	49,121	35,064	105,553	378,174
	7,469 376,495	7,402 346,071	4,745 321,265	5,501 352,639	4,840 358,439	3,455 215,083	26,000 595,204 ³	93,163 1,199,795 ³
Expenses Number of draft animals Per cent of all draft animals in State	675,299	670,431 .02660	426,600	523,068	574,603	358,871 .01424	1,075,078	1,837,294
Expenses of feed. Fetalizer.	3,597	95,002 3,525 1,525	35,045 14,066	4,2% 4,2% 6,2% 6,2%	2,573	3,840	88,306 452	150,924
Labor Interest on mortgage.	4,027	3,090	2,183	1,953	3,066 8,066	1,475	41,625 4,847	88,093 10,521
Maintenance	30,276 111,528	27,066 99,970	16,226 75,244	18,794 75,041	18,877 84,920	12,314 68,524	27,304 162,534	52,825 $304,194$
Total recorded income minus total re-	264,967	246,101	246,021	277,598	273,519	146,559	432,670	895,601
Final income $(\frac{10850}{10978})$ of above)	261,867	243,222	243,143	274,350	270,319	144,844	427,608	885,122
Number of farms.	270,626	252,774	ង	272,101	232,604 1,162	135,463	191,987	436,033
Average acreage per farm	5,587	4,953	2,698	3,546	3,974	4,354	100.4 8,649	10,200
1 Advance Bulletin of the 1920 Census of Agriculture	a of Aorien	ture n 53	A 2	duance Rulle	in of the 10	20 Canana	2 Advance Rulletin of the 1920 Census of Agriculture	n 41

¹ Advance Bulletin of the 1920 Census of Agriculture, p. 53. ² Advance Bulletin of the 1920 Census of Agriculture, p. 41.
³ Value added by animals has been adjusted as explained in the text.

THE METHOD

Division of dollars)
Mountain Division (Thousands of dollars

TABLE 4—Continued

			•	-	or comment			
Income	Mont.	Idaho	Wyo.	. Colo.	N. Mex.	Ariz.	Utah	Nev.
(A) Value of crops	69,975 24,809	126,492 22,225	30,271 14,004	181,065 26,921	40,620 8,448	42,481 6,295	58,067 13,736	13,980 4,695
	9,924	8,890	5,602	10,768	3,379	2,518	5,494	1,878
sheep and goats ?	102,615	69,214	75,447	122,252	81,069	44,327	43,114	26,528
	25,282 ³ 105,181	17,050 ³ 152,432	18,588 3 54,461	30,120 ³ 221,953	19,975 ³ 63,974	10,920 ³ 55,919	10,620 ³ 74,181	6,535 ³ 22,393
Expenses Number of draft animals Per cent of all draft animals in State	678,185	300,858	201,710	451,829	203,055	148,159	128,264	52,936
Expenses of feed.	55,704	24,716	16,643	37,115	16,684	12,172	10,536	4,347
Labor	21,344	18,303	9,277	28,293	6,438	8,442	8,490	5,808
Interest on mortgage	5,924 14,086	5,100 10,806	1,178 3,558	4,258	815 3.522	1,174	1,728	437 1 052
Total expenses	97,184	59,031	30,664	85,170	27,572	24,288	25,490	11,654
Total recorded income minus total recorded expenses	7,997	93,401	23,797	136,783	36,402	31,631	48,691	10,739
Final income (10978 of above)	7,901	92,280	23,511	135,142	35,965	31,251	48,107	10,610
Number of farmsAverage income per farm	57,677 137	42,106 2,192	15,748 1,493	59,934 2,255	29,844 1,205	9,975 3,133	25,662 1,875	3,163 3,354
Average acreage per farm	608.1 17,095	198.9 17,008	749.9 21,235	408.1 17,966	817.9 10,896	581.7 23,418	196.8 12,130	745.2 31,546

¹ Advance Bulletin of the 1920 Census of Agriculture, p. 53. ² Advance Bulletin of the 1920 Census of Agriculture, p. 41. ³ Value added by animals slaughtered has been adjusted as explained in the text.

TABLE 4 Continued

		PACIFIC DIVISION (Thousands of dollars)	Pacific Division housands of dollars)	
Income	Wash.	Oregon	Calif.	Total United States
 (A) Value of crops. (B) Net value added by animal products (40% of above). (C) Value of beef cattle, hogs, sheep and goats? (D) Value added by animals slaughtered. (E) Total income (A + B + C). 	227,212 44,066 17,626 49,437 4,872 249,710	131,885 35,147 14,059 77,492 7,636 153,580	587,601 103,932 41,573 161,569 15,922 645,096	14,755,356 1,066,826 5,053,519 652,952 16,475,134
Number of draft animals Per cent of all draft animals in State. Expenses of feed Fertilizer Labor. Interest on mortgage. Maintenance. Total expenses	319,472 .01268 26,248 526 34,121 4,034 17,746	285,934 .01135 .23,495 490 21,031 3,380 13,054 61,450	465,826 .01849 .8,274 8,183 126,096 14,788 42,683	2,070,021 326,396 1,363,492 239,872 1,497,331 5,497,112
Total recorded income minus total recorded expenses Final income $(\overline{10978} \text{ of above})$	167,035	92,130 91,024	415,072	10,978,022 10,851,096
Number of farms. Average income per farm. Average acreage per farm. Average value per farm.	66,288 2,490 199.8 15,952	50,206 1,813 269.7 16,304	3,485 249.6 29,158	6,448,343 1,682 148.2 12,084

¹ Advance Bulletin of the 1920 Census of Agriculture, p. 53. ² Advance Bulletin of the 1920 Census of Agriculture, p. 41.

One other remark should be made concerning the variations among States in farming. Differences in crops and their values are taken account of in the Census figures; the same is true of variations in the amount spent on fertilizer, labor, interest on mortgage, and animal products. Crops sold by farmers to other farmers and used as feed by them, are taken account of first by using the entire crop values for each State; and second by adding to their value only that part of the value of animals slaughtered on the farm or sold for slaughter, and of animal products which is imputed to other expenses than the value of feed. There are, however, variations in the feed of animals, especially the proportion that is due to grazing, which are not taken account of in the Census figures. Such variations cause some error: corrected in a very rough manner for the range States alone. But the error cannot be large; for crops constitute about 90 per cent of the total value product according to this method of counting; so that the error must be in the remaining 10 per cent only.

The amounts shown, then, are not put forward as exact; they are, rather, working estimates, which appear to be substantiated fairly well by the cross checks which have been used.1

E. Corporate Surplus.

The corporate surplus in 1919, which amounted to 2.0 billion (Income in the United States, volume II, chapter 25) is a difficult item to distribute among the States. Perhaps the best approximation is to credit it in the same ratio as the value added by manufactures in each State, an item which is reported in the Census of Manufactures for 1919.2 A comparison with earlier Censuses shows that this percentage distribution remains fairly constant from one census period to the next, so that there can be no great error in applying these figures to the total corporate surplus.

² Various other ratios of distribution have been suggested—(1) the distribution of the non-agricultural income of each State; (2) the distribution of dividends received as reported by the Bureau of Internal Revenue in Statistics of Income. Both of these methods are logical, especially the latter. It is questioned, however, whether corporate surplus really goes to stockholders in the sense indicated. To some extent, it goes to the community. As a practical matter, the distribution resulting from the use of any one of these ratios is about the same.

¹ The low average income per farm in Montana (\$137) may not be typical. Montana crops in 1919 were particularly bad; the composite number of all crop yields in 1919 as shown in the Department of Agriculture Year Book, 1920, p. 810, was 40, as compared to 83 in 1920, 66 in 1918, 55 in 1917, 86 in 1916, 107 in 1915, and 90 in 1914. The "hypothetical" value of all crops in Montana, as estimated by the Department of Agriculture (page 807), in 1919 is \$71,552,000 as against \$146,713,000 in 1918 and a five year average, 1914 to 1918, of \$95,158,000. If the value of crops raised had been what one would have expected in a "normal" year, then the average income per farmer would have been about \$1,200 to \$1,500 (instead of \$137) a figure that is not out of line with the averages of surrounding states surrounding states.

F. The Totals.

The preceding items need to be cast up to get the total income for each State. While the figures for persons having incomes over and under \$2,000 exclude the farmers, and are therefore rather artificial, they possess a certain independent interest. Of course this form of presentation is necessary because the Federal Income Tax data give arbitrary prominence to the \$2,000 line.

TABLE 6
SUMMARY TABLE OF DISTRIBUTION OF INCOME BY STATES
1919

England Division	` ¤ -
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Centr	_
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4 8	2,472,084 76,424 1,451,663 51,888
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96	520,423 76,996
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TABLE 5-Continued

22	,	THE	DI	STI	RIBŢ	J T	ION	0	F	IN	CO	ΜI	E	ВҰ	. 5	ST2	Υ	ES					
Total excluding farmers and farm laborers	- ;	\$ 154,820 911,830 386,939	733,652	502,274	619,192		632,689	483,967	016,212	319,591	566,276	1,444,136		251,119	141,381	435,533	97,527	170,683	50,903		846,630	2,269,695	\$53,055,541
Total		999,529 386,929	990,107	980,596	1,141,953	•	946,610	810,226	110,620	663,742	771,414	2,511,050		281,130	200,065	600,483	147,107	221,788	65,791		1,066,073	2,808,992	\$66,252,601
Corporate		25,800	21,800	33,400	20,000		12,600	15,200	2006	1,600	19,400	24,000	•	3,600	9006	8,000	008	2,200 2,800 2,800	400		29,400	60,400	\$2,000,600
Farmers	Division	66,061 66,061	208,431 74,904	392,210 329,819	415,793	Div	261,867	243,143 274,350	tral Division	270,319	144,844	885,122	ivision	7,901	92,280	135,142	35,965	$\frac{31,251}{48.107}$	10,610	nsion	165,031	410,091	\$10,851,096
Farm laborers	nt	21,638	48,024 22,963	86,112 80,598	106,968	East South Central	52,054	83,116	2	73,832	60,294 68,573	181,792	Mountain Division	22,110	7,920	29,808	13,615	15,235	4,278	Pacific Division	54,412	129,206	\$2,345,964
Income of non-agricultural persons having under \$2,000	90 20		484,134	329,375 192,293	405,275 213,348		412,537	349,647	•	199,762	349,946 384 894	876,191		154,181	72,030	258,258	68,163	116,280	36,023		552,740 267.064	1,316,233	\$32,152,266
Income of non- agricultural persons having over \$2,000	609 69		227',718 $143',114$	139,499 120,488	193,917 105,133		207,552 186.149	119,120	apples	112,229	196,930 195,776	543,945		93,338	20,731 46,592	169,275	28,564	53,789	14,480		264,490 152.117	893,062	\$18,902,615
State	Dolomowo	Maryland. District of Columbia.	Virginia. West Virginia.	North CarolinaSouth Carolina.	Georgia. Florida.		KentuckyTennessee	Alabama. Mississipoi		Arkansas	LouisianaOklahoma	Texas	19-	Montana	Wyoming	Colorado	New Mexico	ArizonaUtah	Nevada		Washington.	California	Total U. S

III. THE RESULTS

- 1. New York State with an income of about nine billion dollars, which is over one-eighth of the total National Income, has by far the largest income of any State. It is followed in succession by Pennsylvania, Illinois, Ohio, Massachusetts, California, Michigan, and Texas. At the other end of the list is Nevada, with an income of less than one hundred million dollars.
- 2. The Middle Atlantic States (New York, New Jersey and Pennsylvania), taken as a group, have over one-fourth of the National Income; and with the East North Central group and the New England States, have more than one-half of the total.
- 3. New York again heads the list of per capita incomes, with \$874. Nevada, California, Delaware, Wyoming, Massachusetts, and Washington are next with around \$800. At the other end of the scale, with per capita incomes of less than \$400 each are Georgia, Kentucky, North Carolina, Arkansas, Tennessee, Mississippi, and Alabama.
- 4. Taken as a group, the Pacific States have the largest per capita income, with \$796; next are the Middle Atlantic States, with \$783. The per capita income of the East South Central States was less than half these amounts, or \$364.
- 5. The average income of the gainfully employed shows variations from the per capita income due to the wide differences in the character of the employment of the population in the various States. South Dakota and New York head the list with just over \$2,000; and close to this mark are Nebraska, Iowa, Delaware, Illinois, and Wyoming. At the other end of the list are Alabama and Mississippi, both just under \$900.
- 6. The Middle Atlantic States have the largest average income of gainfully employed with \$1,886 and the Pacific States have \$1,837. At the other end, the East South Central States have the smallest with \$979.
- 7. The per cent of non-agricultural Income in each State received by persons having incomes over \$2,000 per year is difficult to interpret. The percentage is high where there are large incomes; but it may also be high owing to a large number of moderate incomes. If we had sufficient data to plot a curve representing the distribution of incomes in each state, such variations might be brought out, but this is not feasible with the existing data. South Dakota shows the highest percentage, having over one-half of its non-agricultural income received by persons with incomes over \$2,000; next in order are Iowa, New York, Nebraska, Maryland, and Delaware. At the other end of the scale are North Carolina, Wisconsin, West Virginia, and Alabama, which show about one-fourth of their non-agricultural incomes received by persons having over \$2,000 per annum.
 - 8. Texas has the largest farmers' income, with nearly 900 million dol-

lars. Iowa and Illinois come next, each just above 600 million dollars. Rhode Island farmers are last, with aggregate incomes of three million dollars.

- 9. The largest average income of farmers is found in California, with \$3,485; next in Nevada, with \$3,354. The only other States near the \$3,000 mark are Arizona, Iowa, and Nebraska. With the exception of Montana, which had an abnormally poor year in 1919, the States having the lowest averages (all less than \$1,000) were Kentucky Tennessee, Connecticut, Alabama, Florida, Massachusetts, West Virginia, New Hampshire, and Rhode Island.
- 10. Taken as a group, the East North Central and the West North Central States have nearly one-half of the farmers' income of the country. The Middle Atlantic States have only 6 per cent, and New England less than two per cent.
- 11. Farmers' income constitutes over one-half the total State income in North Dakota. It is over 40 per cent in South Dakota, South Carolina, Mississippi, Arkansas, Nebraska, and North Carolina. On the other hand, it is less than four per cent in New York, New Jersey, and Connecticut, and less than one per cent in Massachusetts and Rhode Island.
- 12. Taken as a group, farmers' incomes constitute about one-third of the total income in the West South Central, the West North Central, and the East South Central States. On the other hand, they constitute about one-thirtieth of the total income in New England and the Middle Atlantic States.

TABLE 6
ANALYSIS OF INCOME BY STATES, 1919

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.90	Population Jan. 1, 1920
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8	3,155,900
12	8,720,017
8	5,759,394
ಹ	2,930,390
ത	6,485,28
7 5	3,668,412
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2	2,404,021
2	3,404,055
~	646,87
₩	636,54
	1,296,37
	1,769,2
	jan. 1, 1920 105,710,620 768,014 443,083 352,428 3,852,356 604,397 1,380,631 10,385,227 3,155,900 8,720,017 5,759,394 2,930,390 6,485,280 3,668,412 2,632,067 2,387,125 3,668,412 2,632,067 2,387,125 6,486,872 1,296,872 1,296,872 1,296,872 1,296,872 1,769,257

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	Total income (thousands)	Population Jan. 1, 1920	Per capita income	Per cent of total national income in the State	Per cent of total popu- lation in the State	Number of persons gainfully employed Jan. 1, 1920	Average income per person gainfully employed	Per cent of State income exclusive of farmer's and farm laborer's income received by non-agricultural persons having over £2000 per
Sorting Amy Same								year
Delaware	\$ 176,591	223,003	\$792	72.	.21	91,224	\$1,936	40.44
Maryland District of Columbia	999,529	1,449,661	689 887	1.51	1.37	603,473	1,656	42.54
	990,107	2.309.187	429	1.49	2.18	833.177	1,039	3.8
West Virginia	655,723	1,463,701	448	66.	1.39	491,117	1,335	25.65
North Carolina	980,596	2,559,123	383	1.48	2.42	895,852	1,095	27.77
South Carolina	735,398	1,683,724	437	1:11	1.59	674,257	1,091	37.08
Georgia.	1,141,953	2,895,832	394 490	1.72	2.74	1,128,742	1,012	31.32
EAST SOUTH CENTRAL	112002	0.7*,000	OFF.	10.	76.	010,000	1,000	\$0.7c
Kentucky	946,610	2,416,630	392	1.43	2.29	851,122	1,112	
Tennessee	853,867	2,337,885	365	1.29	2.21	829,875	1,029	
Alabama	810,226	2,348,174	345	1.22	2.22	908,216	892	24.61
WEST SOUTH CENTRAL	029,071	1,790,618	700	ca.	1.09	721,412	872	
:	663,742	1,752,204	379	1.00	1.66	634,564	1,046	35.12
Louisiana	771,414	1,798,509	429	1.17	1.70	681,237	1,132	34.78
Oklahoma	1,083,851	2,028,283	534	2. 2. 2.	1.92	681,439	1,591	33.31
Monwan	2,511,050	4,003,228	500	3.79	4.41	1,718,945	1,461	21.67
Montana	281,130	548.889	512	.42	.52	214.183	1.313	37.17
Idabo	260,665	431,866	604	.39	.41	153,459	1,699	35.90
Wyoming	153,297	194,402	289	.23	. 18	81,536	1,880	38.23
Colorado	600,483	939,629	636	16. 86.	68.	366,458	1,639	38.87
Arizona	147,107	324 169	408 664	22.	<u>.</u> %	122,031	1,205	29.29
Utah	232,324	449 396	517	9.8	43	140,573	1,030	31.23
Nevada.	65,791	77,407	850	01	20.	37.548	1,752	28.45
PACIFIC		-				2	-	
Washington	1,066,073	1,356,621	786	1.61	1.28	578,470	1,843	31.24
California	220,022	3 426 861	820	. 84 4 24	3.24	322,137	1,728	35.21 30.25
)			-1010-0	2,000	00.00

TABLE 7

1919
BY STATES,
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FARMERS
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ANALYSIS

State	Number of farmers	Total income of farmers (thousands)	Average income per farmer	Per cent of total state income go- ing to farmers	Per cent of total farmers' income in the State
UNITED STATES.	6,448,366	\$10,851,096	\$1,682	16.38	100.00
Maine	48,227	73,867	1,532	16.48	89.
New HampshireVermont	20,523 29,075	16,651 37,226	1,280	19.96	. 34 . 34
Massachusetts	32,001	29,203	913	96.	.27
Rhode Island	4,083 22,655	3,253 $21,601$	797 953	2.18	20. 20.
Middle Atlantic	. 60	900 010	4 007	3 45	80 6
New York	193,195	512,990	1,307	2.40 2.16	47
Pennsylvania	202,252	299,701	1,482	5.03	2.76
EAST NORTH CENTRAL		1	1]]	
Ohio.	256,695	466,817	1,819	11.77	4.30 1.30
Indiana	205,126	376,101	1,834	22.03	3.47
Michigan	237,181	050,239 209 978	1,530	12.5	9.70
Wisconsin	189,295	352,618	1,863	24.04	3.25
WEST NORTH CENTRAL				à	Ġ
Minnesota	178,478	353,705	1,982	25.51 37.53	3.26
Micconn	215,459	305,564	1,504	21.25	3.0
North Dakota	77,690	172,340	2,218	51.77	1.59
South Dakota	74,655	198,390	2,657	45.48	1.83
Nebraska	124,421	364,346	2,928	40.06	3.36
Kansas	165,286	399,505	2,417	37.50	3.68

TABLE 7—Continued

State	Number of farms	Total income of farmers (thousands)	Average income per farmer	Per cent of total state income going to farmers	Per cent of total farmers' income in the State
South Atlantic Delaware. Maryland	10,140	\$ 18,054 66,061	\$1,780 1,379	10.22	.17
District of Columbia. Virginia. West Virginia.	186,242 87,289 960,763	208,431 74,904 309,910	1,119 858 1,454	21.05 11.42 6.05	1.9 2 .69
North Carolina. South Carolina. Georgia Florida.	203,705 192,693 310,732 54,005	329,210 329,819 415,793 49,416	1,32 1,338 1,35	44.85 36.41 12.16	3.04 3.83 46
EAST SOUTH CENTRAL Kentucky Tennessee Alabama Mississippi	270,626 252,774 256,099 272,101	261,867 243,222 243,143 274,350	968 962 949 1,008	27.66 28.48 30.01 43.61	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
WEST SOUTH CENTRAL Arkansas. Louisiana. Oklahoma.	232,604 135,463 191,987 436,033	270,319 144,844 427,608 885,122	1,162 1,069 2,227 2,030	40.73 18.78 39.45 35.25	2.49 1.33 3.94 8.16
Motwalin Montana. Idaho. Wyoming Colorado.	57,677 42,106 15,748 59,934	7,901 92,280 23,511 135,142	137 2,192 1,493 2,255	2.81 35.40 15.34 22.51	.07 .85 .22 1.25
New Mexico. Arizona Utah.	29,844 9,975 25,662 3,163	35,965 31,251 48,107 10,610	1,205 3,133 1,875 3,354	24.45 14.09 20.71 16.13	88.93.44.0.
Vashington Vashington California	66,288 50,206 117,670	165,031 91,024 410,091	2,490 1,813 3,485	15.48 16.35 14.60	1.52

TABLE 8

ANALYSIS OF INCOME BY GEOGRAPHICAL DIVISIONS, 1919

Georgraphical divisions	Total income Population (thousands) Jan. 1, 1920	Population Jan. 1, 1920	Per capita income	Per cent of total na- tional income	Per cent of total population	Number of persons gainfully employed	Average income per person gamfully employed	Per cent of income in each division, exclusive of farmers and farm laborers income received, by non-agresons having over \$2,000 per year
United States. New England Middle Atlantic East North Central. South Atlantic East South Central West South Central. West South Central.	\$66,252,601 5,358,511 17,424,981 14,681,293 7,650,410 6,473,303 3,239,774 5,030,057 1,962,585 4,431,687	105,710,620 7,400,909 22,261,144 21,475,543 12,544,249 13,990,278 8,893,307 10,242,224 3,336,101 5,566,871	\$627 724 684 684 610 610 463 364 864 863 798	100 00 8 09 8 09 22 16 11.2 16 11.25 14.89 17.59 17.59	100.00 7.00 20.106 11.87 13.23 8.41 9.69 9.69	41,609,192 3,234,282 3,234,282 8,513,006 4,587,459 5,339,182 3,310,625 3,310,625 1,254,995 2,411,097	\$1,592 1,657 1,886 1,725 1,725 1,212 1,212 1,354 1,354 1,837	38.55.63 38.25.63 38.25.76 38.26.64 38.56.64 38.66.64 38.66.64 38.66.64 38.66.64 38.66.64 38.66.64 38.66.64 38.66.64 38.66.64

TABLE 9

L DIVISIONS, 1919	Per cent of total division income farmers farmers income	16.38 100.00 3.39 1.68 3.81 6.12 14.49 19.61 32.95 23.23 24.02 14.33 31.56 9.42 34.35 15.92 19.61 3.55 15.03 6.14
EOGRAPHICAL 1	Average income per farmer	1,682 1,161 1,562 1,962 2,298 1,341 1,735 2,845
ANALYSIS OF INCOME OF FARMERS BY GEOGRAPHICAL DIVISIONS, 1919	Total income of farmers (thousands)	\$10,851,096 181,801 664,251 2,128,053 2,520,915 1,554,688 1,022,582 1,727,893 384,767 666,146
	Number of farmers	6,448,366 156,564 425,149 1,084,744 1,1086,973 1,158,976 1,031,600 996,087 244,109 234,164
	Georgraphical divisions	United States. New England. Middle Atlantic. East North Central. West North Central. South Atlantic. East South Central. West South Central. West South Central. Peast South Central.