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NO. 3

DISTRIBUTION OF INCOME BY STATES IN 1919

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DISTRIBUTION OF INCOME BY STATES IN 1919

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OF THE STAFF OF THE NATIONAL BUREAU OF ECONOMIC RESEARCH



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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. 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
	ollars
Income of persons receiving over \$2,000 per year (excluding farmers and farm	
laborers)	8.90
Income of persons receiving under \$2,000 per year (excluding farmers and farm	
laborers)	2.65
Income of Farm Laborers.	
Income of Farmers	
Corporate Surplus	4.00
Total	6 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 1919 (Thousands of Dollars) TABLE 1

	Total		\$ 103,620 73,857 43,010	1,139,071 145,414 323,710		3,727,257	1,759,009		1,017,732	1,629,637	652,278	282,742		328,819	444,917	443,842	48,973	104,501	214,939
	Other tax- exempt income		\$ 2,403 1,633 1,300	55,138 7,128 11,537		236,998	73,144		34,477	53,733	25,283	5,859		8,839	4,491	13,930	236	541	3,102 3,337
	Tax-exempt income from homes		\$ 4,550 3,360 1,750	35,210 5,250 14,490		89,670	70,770		40,460	55,440	23,870	13,860		16,240	17,570	16,450	3,570	5,040	11,480
13)	Adjusted for under-reporting	no	\$ 96,667 68,864 39,960	1,048,723 133,036 297,683	sion	3,400,589	1,615,095	nision	942,795	1.520,394	603,125	263,023	nsion	303,740	422,856	413,462	45,167	98,920	200,357 199,369
(Thousands of Dollars)	Reported, less farmers' income	New England Division	\$ 87,182 62,107 36,039	945,818 119,982 268,473	Middle Atlantic Division	3,066,909	1,456,615	East North Central Division	850,284	1.371.207	543,944	237,214	West North Central Division	273,936	381,364	372,891	40,735	89,214	180,697
7)	Estimated farmers' income	N	\$ 6,559 782 2,762	1,546 150 1,193	Mi	32,781	25,743	East	49,216	93,979	26,963	38,075	West	40,632	110,218	34,485	22,155	30,552	61,831 55,966
	Reported total over \$2,000		\$ 93,741 62,889 38,801	947,364 120,132 269,666		3,099,690	1,482,358		899,500	1.468,262	,570,907	275,289		314,568	491,582	407,376	62,890	119,766	242,528
	State		MaineNew Hampshire	MassachusettsRhode Island		New York	Pennsylvania		Ohio	Illinois	Michigan	Wisconsin		Minnesota	10wa	Missouri	North Dakota	South Dakota	Kansas

TABLE 1—Continued

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	\$ 1,863	\$ 50,895	\$ 56,432	\$ 2,170	\$ 4,001	\$ 62,603
Maryland	329,624	5,280	324,344	359,633	15,260	13,014	387,907
District of Columbia	122,725		122,725	136,077	7,700	4,637	148,414
Virginia	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
South Carolina	129,808	27,744	102,064	113,169	4,900	2,419	120,488
Georgia	195,700	32,245	163,455	181,237	7,770	4.910	193,917
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	76,058	84,333	3,150	3,180	90,063
		Wes	t South Central Division	ivision		•	•
Arkansas	113.768	18.206	95 562	105 959	4 480	1 700	119 990
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
Texas	559,243	104,142	455,101	504,616	23,170	16,159	543,945
			Mountain Division	uc			
Montana	78,589	63	78,526	87,070	5,600	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
Utah	50,778	5,228	45,550	50,506	2,800	483	53,789
Nevada	14,046	7,005	11,984	13,288	1,120	72	14,480
			Pacific Division				
Washington	244,633	23,817	220,816	244,841	14,980	4,669	264,490
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	069 2698	\$710,000	\$18.902.615
					0001,000	000 04 +	000000000000000000000000000000000000000

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

Total wages in State	\$ 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 \$4,145,072,337 1
Average wages in State for each group	\$1,213 1,224 1,288 1,191 928 1,247 930 1,266 \$1,191
Ratio of wage rates in this State to wage rates in United States	933 1.055 1.030 1.030 1.039 1.039 1.033
United States average wages for each group	1,300 1,160 1,250 1,145 893 1,200 1,200
Number of persons receiving less than \$2,000 per year	6,444 1,692,714 357,775 382,526 84,632 139,969 438,706 3,480,250
Percentage in each group receiving in comes less than \$2,000 per year	88888888888888888888888888888888888888
Number of persons in each occupa- tion group	7,644 1,755,927 404,723 592,145 100,394 295,211 470,715 565,944 4,189,703
	Mining. Manufacturing. Transportation. Trade. Public Service. Domestic. Clerical.

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. ¹ The total wages must be converted into total income.

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 numher 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 eattle 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. This

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	
State B produces cattle of net value (20%)	250,000
Total value of agriculture in both states (A + B)	1,250,000
The million dollars worth of feed bought by the farmers of Star	te B from those of
State A is thus counted out.	
(b) If one set of farmers in one state sell feed to another set of f	armers of the same
state, who raise only cattle, then the record stands	
Value of crops raised	. \$1,000,000
Value of cattle slaughtered	
Net value of cattle slaughtered	

Income of Farmers. 1,250,000
(c) If all farmers raise crops and feed them to their own animals, then the record

anas		
	Value of crops raised	\$1,000,000
	Value of animals slaughtered	1,250,000
	Net value of animals slaughtered	250,000
	Income of Formers	1.250,000

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 VALUE OF ANIMALS SLAUGHTERED IN 1919 1

	U. S. inspected	Other	Total number slaughtered	Average value	Total value (thousand dollars)
Cattle. Calves. Sheeps and Lambs. Goats. Swine.	10,089,984 3,969,019 12,691,117 87,380 41,811,830	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. \$652,952,000 Value added by animal products. 1,066,828,909	
	Total value added	\$1,719,780,909
(2)	Total value of animals slaughtered and animal products	\$1 525 245 706

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.

TABLE 4
DISTRIBUTION OF FARMERS' INCOME BY STATES 1919

		New	NEW ENGLAND DIVISION	Division	(Thousar	(Thousands of dollars)		MIDDLE ATLANTIC DIVISION	Division
Income	Mame	N. H.	Vt.	Mass.	R. I.	Conn.	N. Y.	N. J.	Pa.
(A) Value of crops	100,152 26,075	23,509 14,681	48,000 31,573	53,701 33,851	5,340	44,492 20,862	417,047	87,464 31,483	410,934 156,012
	10,430	5,872	12,629	13,540	2,147	8,345	90,186	12,593	62,405
and goats 2	21,405	12,544	30,636	22,693	3,354	15,996	218,248	21,103	150,391
	2,109 $112,691$	1,236	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	94,794	38,442	77,832	50,937	6,615	38,994	543,494	78,326	561,047
Fer cent of all draft animals in State Expenses of feed	.00376	3,167	.00309 6.396	.00202	.00026 538	3.209	.02156	.00311	02226 46.078
Fertilizer	7,759	526	857	3,907	380	4,894	15,067	10,743	15,628
Interest on mortgage.	1,041	4,521 348	1.273	10,977	201,7	1.018	7.859	13,074	42,112
Maintenance	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 re-	74.741	16.848	37.667	29.549	3.292	21.857	316.701	52.164	303.249
Final income $(\frac{10850}{10978} \text{ of above})^3$	73,867	16,651	37,226	29,203	3,253	21,601	312,996	51,554	299,701
Number of farms Average income per farm Average acreage per farm	48,227 1,532 112.5	20,523 811 126.9	29,075 1,280 145.7	32,001 913 77.9	4,083 797 81.2	22,655 953 83.8	193,195 1,807 1,06.8	29,702 1,736 76.8	202,252 1,482 87.3
Average value per farm	5,609	5,782	- 11	9,389	8,238	10,019	9,879	10,499	Ш

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

TABLE 4-Continued

		East Nor (Th	EAST NORTH CENTRAL DIVISION (Thousands of dollars)	IVISION rs)	
Income	Ohio	Ind.	III.	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).	607,038 155,588 62,235 186,111 18,340 687,613	497,230 99,350 39,740 165,291 16,289 553,259	864,738 142,351 56,940 280,456 27,637 949,315	404,014 111,076 44,430 135,039 13,307 461,751	445,348 213,022 85,209 243,941 24,040 554,597
Expenses Number of draft animals Per cent of all draft animals in State Expenses of feed Expenses of feed 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 .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	380,553 376,101	637,700	305,857 302,278	356,792 352,618
Number of farms. Average income per farm. Average acreage per farm.	256,695 1,819 91.6 12,060	205,126 1,834 102.7 14,831	237,181 2,657 134.8 28,108	196,447 1,539 96.9 8,976	189,295 1,863 117.0 14,143

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

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

SOUTH ATLANTIC DIVISION

llars)	N. C. S. C. Ga.	503,229 437,122 540,614 35,860 20,354 36,401	14,344 8,142 14,560	45,661 31,101 56,330	4,500 3,065 5,552 522,073 448,329 560,726	007 001	01698 01181	35,149 24,447	48,797 52,547	12,036	97 390 91 430	125,220 115,605 140,011		396,853 333,724 420,715	392,210 329,819 415,793	269,763 192,673	1,454 1,712	4,634
(Thousands of dollars)	W. Va.	96,537 26,333	10,533	42,884	4,226 111,296	104 190	.00731	15,132	1,709	5,816	19.187	35,505		75,791	74,904	11		5,687
(Thous	Va.	292,842 46,311	18,524	66,187	6,522 317,888	400 905	.01624	33,617	17,278	21,809	31,402	106,989		210,899	208,431	186,242		6,425
	D. C.	307 119	48	189	19 374	3.43	.000014	20	73	173	153	374					8 76	29,059
	Md.	109,811 25,522	10,209	25,802	2,542 122,562	173 069	06900	14,283	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	37 101	.00148	3,064	1,222	2,808	153	7,501		18,268	18,054	10,140	1,00	7,903
		Value of cropsValue of animal products 1	products (40% of above)	sheep and goats 2	slaughtered	Expenses	Per cent of all draft animals in State.		Ferunzer			Total expenses	Total recorded income minus total		Final income (10978 of above)		Average acreage 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 8	EAST SOUTH CENTRAL DIVISION (The	TRAL DIVIS	Thousands of dollars	West S of dollars)	OUTH CENT	WEST SOUTH CENTRAL DIVISION (ollars)	z
Інсоте	Ky.	Tenn.	Ala.	Miss.	Ark.	La.	Okla.	Tex.
(A) Value of crops. Value of animal products 1 (B) Net value added by animal products	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
Value of beef cattle, hogs, sheep and goats?	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
Expenses Number of draft animals	675,299 .02680	670,431 .02660	426,600	523,068	574,603 .02280	358,871 .01424	1,075,078	1,837,294
Expenses of feed	55,476 3,597	55,062 3,525	35,045 14,066	42,973 4,288	47,196 2,573	3,840	88,306 452	150,924
Labor. Interest on mortgage. Maintenance.	18,152 4,027 30,276	3,090 3,090 27,066	2,724 2,183 16,226	7,033 1,953 18,794	13,208 3,066 18,877	21,418 1,475 12,314	41,625 4,847 27,304	88,093 10,521 52,825
Total recorded income minus total re-	111,528	99,970	75,244	75,041	84,920	68,524	162,534	304,194
Final income (10958) of above)	264,967	243,222	245,021 243,143	274,350	270,319	146,559	432,670 427,608	895,601 885,122
Number of farms. Average income per farm Average acreage per farm Average value per farm.	270,626 968 79.9 5,587	252,774 962 77.2 4,953	256,099 949 76.4 2,698	272,101 1,008 66.9 3,546	232,604 1,162 75.0 3,974	135,463 1,069 74.0 4,354	191,987 2,227 166.4 8,649	436,033 2,030 261.5 10,200

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.

TABLE 4—Continued

				Mountain Division (Thousands of dollars)	ivision dollars)			
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 2	102,615	69,214	75,447	122,252	81,069	44,327	43,114	26,528
Total income (A + B + C).	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 s 22,393
Expenses Number of draft animals	679 185	200 050	901 710	451 090	909 068	140 150	100 001	000
Per cent of all draft animals in State.	.02691	.01194	.00804	.01793	90800	.00588	.00509	52,936
Expenses of feed	55,704	24,716	16,643	37,115	16,684	12,172	10,536	4,347
Fertilizer	126	106	× 1	294	113	41	109	10
Labor	21,344	18,303	9,277	28,293	6,438	8,442	8,490	5,808
Interest on mortgage	5,924	20,100	1,178	4,258	815	1,174	1,728	437
Total expenses	97,184	10,800 59,031	30,664	85,170	3,522 27,572	2,459 24,288	4,627 25,490	1,052 $11,654$
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 farms	57,677	42,106	15,748	59,934	29,844	9.975	25.662	3.163
Average income per farm	137	2,192	1,493	2,255	1,205	3,133	1,875	3,354
Average value per farm	17,095	17,008	21,235	408.1 17,966	817.9 10,896	23,418	12,130	745.2

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)	
Іпсоте	Wash.	Oregon	Calif.	Total United States
(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).	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 Ferthizer. Labor. Interest on mortgage. Maintenance. Total expenses.	319,472 .01268 26,248 526 34,121 4,034 17,746 82,675	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 42,683 230,024	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 (10978 of above)	167,035	92,130	415,072	10,978,022
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	117,670 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.

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.

SUMMARY TABLE OF DISTRIBUTION OF INCOME BY STATES
1919

6,412 16,651 8,970 37,226
2,686 9,798
Middle Atlantic Division
27,650 19,108
East North Central Division
53,768
_
_
North Central Division
89,010
44,919

TABLE 5-Continued

State	agricultural persons having over \$2,000	agricultural persons having under \$2,000	Farm	Farmers	Corporate surplus	Total	Total excluding farmers and farm laborers
			South Atlantic Division	Division			
Delaware	\$ 62,603	\$ 85,817	\$ 3,717	\$ 18,054	\$ 6,400	\$ 176,591	\$ 154,820
Maryland.	387,907	498,123	21,638	190'99	25,800	999,529	911,830
District of Columbia.	148,414	250,515			3,000	386,929	386,929
Virginia	277,718	484,134	48,024	208,431	21,800	990,107	733,652
West Virginia	143,114	398,742	22,963	74,904	16,000	655,723	557,856
North Carolina	139,499	329,375	86,112	392,210	33,400	980,296	502,274
South Carolina	120,488	192,293	80,298	329,819	12,200	735,398	324 981
Georgia	193,917	405,275	106,068	415,703	20,000	1 141 053	610,100
Florida.	105,133	213,348	28,980	49,416	000,6	406,477	328,081
		,	East South Central	al Division			
Kentucky	907 559	419 527	59 054		19 600	048 810	000 660
Tonnessee	186 140	251 596	72,004	942 999	12,000	940,010	607,009
Alphomo	110,150	940,020	00,010	040,040	17,000	000,000	0.04,00
Missississis	021,110	177,050	85,110	243,143	15,200	810,226	483,967
in ississippi	20,000	114,434	008,18	77.4,550	8,000	170,629	016,272
		11	⁷ est South Centra	ral Division			
Arkansas	112.229	199.762	73.832	270 319	7 600	663 749	310,501
Louisiana	196,930	349,946	60,294	144,844	19,400	771,414	566,276
Oklahoma	195,776	384,894	68,573	427,608	2,000	1.083,851	587,670
Texas	543,945	876,191	181,792	885,122	24,000	2,511,050	1,444,136
			Mountain D	ivision			
Montana	93.338	154.181	92,110	7 901	3 600	981 130	951 110
Idaho.	50,751	87,630	27,004	02,280	3,000	260,665	141 381
Wyoming	46,592	72,074	7,090	93,511	3,500	153 207	191 866
Colorado	169,275	258 258	808 66	135 149	000,8	600,483	435 533
New Mexico	28,564	68,163	13,615	35,965	800	147,107	97,527
Arizona	52,203	116,280	19,854	31 251	2.500	991,788	170,683
Utah.	53,789	111,393	15,935	48,107	0000	939,394	168 089
Nevada	14,480	36,023	4.278	10,610	400	65,791	50,003
			Pacific Division				
Washington	264,490	552,740	54,412	165,031	29,400	1,066,073	846,630
Oregon.	152,117	267,064	33,617	91,024	12,800	556,622	431,981
	893,062	1,316,233	129,206	410,091	60,400	2,808,992	2,269,695
Total U.S.	\$18 009 615	\$29 159 966	QO 245 064	@10 0E1 00G	000 000 00	\$66 050 co1	9E0 OEE E41

HI. 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

Per cent of State income exclusive of farmer's and farm laborers' income received by non-agricultural persons having over \$2,000 per year	35.63	29.14	30.08	38.12	33.89	93.70	43.17	36.05	31.33	29.52						34.84	45.25	32.54	36.86	51.26	42.96	34.04
Average income per person gainfully employed	\$1,592	1,446	1,347	1,755	1,582	1,079	2,014	1.826	1,739	1,725	1,524	1,889	1,752	1,473	1	1,529	1,977	1,384	1,608	2,014	1,990	1,706
Number of persons ganfully employed Jan. 1, 1920	41,609,192	309,858	138,484	1,728,297	275,000	012,820	4,504,791	1,310,379	3,426,361	2,300,412	1,117,032	2,626,547	1,473,614	995,401		906,623	858,699	1,317,010	202,082	216,573	457,081	624,391
Per cent of total popu- lation in the State	100.00	.73	188	3.64	.57	1.51	9.83	2.99	8.25	5.45	2.77	6.14	3.47	2.49	(2.26	2.27	3.22	.61	09.	1.23	1.67
Per cent of total national income in the State	100.00	.68	28	4.58	99.	06.1	13.70	3.61	8.99 8.09	5.99	2.57	7.49	3.90	2.22	4	2.09	2.56	2.75	.50	99.	1.37	19.1
Per capita income	\$627	583	529	788	720	717	874	758	683	689	581	292	704	557	;	581	902	535	515	685	702	602
Population Jan. 1, 1920	105,710,620	768,014	352,428	3,852,356	604,397	1,380,031	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	2,404,021	3,404,055	646,872	636,547	1.296,372	1,769,257
Total income (thousands)	\$66,252,601	448,106	186.479	3,034,020	434,988	990,388	9,074,859	2,392,104	5,958,018	3,967,713	1,702,776	4,962,384	2,581,907	1,466,513		1,386,514	1,697,401	1,822,428	332,916	436,254	909,558	1,065,339
State	UNITED STATES	Maine	Vermont	Massachusetts	Rhode Island	Connecticut	MIDDLE ATLANTIC New York	New Jersey	Pennsylvania	Obio	Indiana	Illinois	Michigan	Wisconsin	West North Central	Minnesota	Iowa	Mıssouri	North Dakota	South Dakota	Nebraska	Kansas

TABLE 6-Continued

	Total income (thousands)	Population Jan. 1, 1920	Per capita income	Per cent of total national income in the State	Per cent of total population 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 \$2,000 per year
South Atlantic Delaware	\$ 176,591	223,003	\$792	72.	.21	91,224	\$1,936	40.44
Maryland District of Columbia	999,529 386,929	1,449,661 437,571	689 884	1.51	1.37	603,473 236,027	1,656 1.639	42.54 38.36
Virginia	990,107	2,309,187	429	1.49	2.18	833,177	1,188	31.04
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	437 394	1.11	$\frac{1.59}{2.74}$	674,257	1,091 1.012	37.08
Florida	406,477	968,476	420	.61	.92	385,313	1,055	32.04
Kentucky	946,610	2,416,630	392	1.43	2.29	851,122	1,112	
TennesseeAlabama	853,867 810,226	2,337,885	365 345	1.29	2.21	829,875 908,216	1,029	33.56 24.61
Mississippi	629,071	1,790,618	351	.95	1.69	721,412	872	
Arkansas	663,742	1,752,204	379	1.00	1.66	634,564	1,046	35.12
Oklahoma	771,414	1,798,509	429 534	1.17	1.70	681,237	1,132	34.78 33.31
Texas.	2,511,050	4,663,228	538	3.79	4.41	1,718,945	1,461	37.67
Montana	281,130	548,889	512	.42	.52	214,183	1,313	37.17
IdahoWvoming	260,665	431,866	604	.39	.41	153,459	1,699	35.90
Colorado.	600,483	939,629	689	3.6	68.	366,458	1,639	38.87
Arizona.	221,788	334 162	408 664	22.88	4. c.	130,579	1,205 1,608	20.23 30.23
Utah.	232,324	449,396	517	.35	.43	149,201	1,557	31.83
Nevada	65,791	77,407	820	.10	20.	37,548	1,752	28.45
Washington	1,066,073	1,356,621	286	1.61	1.28	578,470	1,843	31.24
Oregon.	556,622	783,389	711	8.	.74	322,137	1,728	35.21
California	2,808,992	3,426,861	820	4.24	3.24	1,511,320	1,859	39.35

TABLE 7
ANALYSIS OF INCOME OF FARMERS BY STATES, 1919

State	Number of farmers	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
UNITED STATES	6,448,366	\$10,851,096	\$1,682	16.38	100.00
Maine New Hampshire	48,227	73,867	1,532	16.48	89.
Vermont. Massachusetts	29,075 32,001	37,226 29,203	1,280	19.96	3.5. 7.6.
Rhode Island	4,083	3,253	797	.75	.03
Connecticut	22,655	21,601	953	2.18	.20
MIDDLE ATLANTIC New York	193,195	312,996	1,807	3.45	2.88
New Jersey	29,702	51,554	1,736	2.16	.47
Pennsylvania.	202,252	299,701	1,482	5.03	2.76
Ohio.	256,695	466,817	1,819	11.77	4.30
Indiana	205,126	376,101	1,834	22.09	3.47
Illinois	237,181	630,239	2,657	12.70	5.81
Michigan	196,447	302,278	1,539	11.71	2.79
Wisconsin. Cemmeat	189,295	352,618	1,863	24.04	3.25
Minnesota	178,478	353,705	1,982	25.51	3.26
Iowa	213,439	637,065	2,985	37.53	5.87
Missouri	263,004	395,564	1,504	21.71	3.65
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 47,908	\$ 18,054 66,061	\$1,780 1,379	10.22	.17
User Virginia. West Virginia.	204 186,242 87,289	208,431 74,904	1,119	21.05	1.92
North Carolina. South Carolina. Georgia Florida.	203,705 192,693 310,732 54,005	329,819 329,819 415,793 49,416	1,454 1,712 1,338 915	40.00 44.85 36.41 12.16	3.61 3.83 3.83 46
East South Central Kentucky. Ternesee. 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	2.24 2.24 2.53
West South Central Arkansas. Louisiana. Oklaboma. Texas.	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
Moutana. Montana. Idaho. Wyoming. Colorado. New Mexico. Arizona. Utah.	57,677 42,106 15,748 59,934 29,975 9,975 3,163	7,901 92,280 23,511 135,142 35,965 31,251 48,107 10,610	137 2,192 1,493 2,255 1,205 3,133 1,875 3,354	2.81 35.40 15.34 22.51 24.45 14.09 20.71 16.13	.07 .22 .22 .23 .23 .29 .29 .29
PACIFIC Washington. Oregon. 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

Per cent of income in each division, exclusive of farmers, and farm laborers' income received, by non-agricultural persons having over \$2,000 per year	35.63 35.76 38.16 37.28 37.84 37.95 35.96 35.90
Average in- come per person ganfully employed	\$1,592 1,657 1,886 1,725 1,668 1,122 1,354 1,354 1,564 1,564
Number of persons gainfully employed	41,609,192 3,234,282 9,241,531 8,513,006 4,587,459 5,339,182 3,310,625 3,716,185 1,254,995 2,411,927
Per cent of total population	100.00 7.00 21.06 20.31 11.87 13.23 8.41 9.69 9.69
Per cent of total na-tional income	100.00 8.09 26.30 22.16 11.55 9.77 4.89 7.59 6.69
Per capita income	\$627 724 783 684 610 610 463 364 491 588 796
Population Jan. 1, 1920	105,710,620 7,400,909 22,261,144 21,475,543 13,990,278 8,893,307 10,242,224 3,336,101 5,566,871
Total income Population (thousands) Jan. 1, 1920	\$66,252,601 5,358,511 17,424,981 14,681,293 7,660,410 6,473,303 3,239,774 5,030,057 1,962,585 4,431,687
Georgraphical divisions	United States New England Middle Atlantic. East North Central. South Atlantic East South Central. West South Central. West South Central. West Gouth Central. Mountain.

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tal Per cent of total	100.00 1.68 6.12 23.23 14.33 14.33 15.92 3.55 6.14
Per cent of total division income going to farmers	16.38 3.39 3.81 14.49 24.02 31.56 31.56 19.61 15.03
Average income per farmer	1,682 1,161 1,562 1,962 2,298 1,341 1,735 1,576 2,845
Total income of farmers (thousands)	\$10,851,096 181,801 664,251 2,520,915 1,554,688 1,727,893 384,767 666,146
Number of farmers	6,448,366 156,564 425,149 1,084,744 1,096,973 1,158,976 1,051,600 996,087 244,109 234,164
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. Mountain.

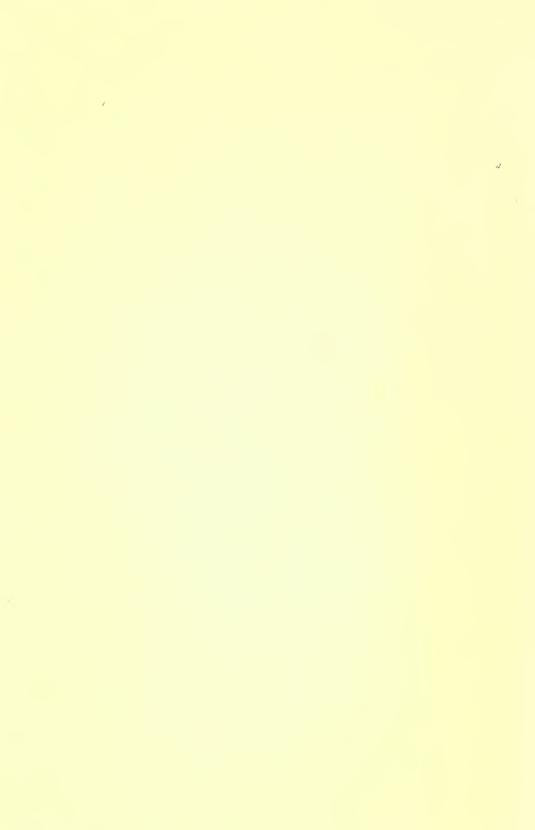












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