

THE ESTIMATED GROSS CASH INCOME FROM THE SALE OF
AGRICULTURAL PRODUCTS FROM OHIO FARMS BY
COUNTIES - 1929

by

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Herein are presented the results of a study in which an attempt was made to estimate the gross cash income from the sale of agricultural products from Ohio farms by counties in 1929. A similar estimate was made for the year 1927, the results of which are found in Mimeograph Bulletin No. 22 of the Department of Rural Economics, Ohio State University and Ohio Agricultural Experiment Station. Previous to the estimate made for 1927 there was no information available relating to the income from the several agricultural enterprises of Ohio in all eighty-eight counties.

The method of computing the 1929 figures have in some instances been changed from that employed in 1927. Some of the differences between the figures for the two years may therefore be due to this difference in method of computing. The information presented in the following table is not as complete and reliable as would be desirable, for as yet fully adequate data are not available. Nevertheless, it is believed that the results obtained from this study do give a fair picture of the sources of agricultural income in the several counties, and the relation of the most important enterprises to each other. It is hoped that as more data become available that it will be possible to estimate with a greater degree of accuracy both the total agricultural income, and what per cent of this total gross cash income is derived from the various enterprises.

Gross cash income in this study is taken to mean the actual total income to the farm from the sale of any agricultural commodity. However, there are a few minor exceptions, especially in the case of corn or any of the feed crops. A large amount of these crops when sold are sold to other farmers.

Where the farmer buyers are located in the same county as the sellers, the income has not been included, since this was an exchange between farmers within the county. When sold to farmers outside the county the sales have been included. It should be pointed out that these data do not necessarily indicate the relative importance of the various enterprises, but rather their importance as sources of income through sales. Thus corn, if it were all fed would not appear as a source of income.

The data used as a basis for this study were obtained from the census publications, estimates obtained from the State - Federal Crop and Livestock Estimating Service, information previously compiled by the Department of Rural Economics, Ohio State University, and the best judgments and opinions of experts in the several agricultural enterprises.

All agricultural products have been included in this study, with the exception of a few of the minor enterprises such as honey and wax, nursery products, flowers, etc. However, they do constitute an important source of income in a few counties such as nursery products in Lake County. Without a doubt nursery products are the leading source of income in that county. At the present time data are not available which would show the relation of nursery products to other enterprises as a source of income. Also, they have been omitted for want of a reliable method of estimating the income from them which would confine itself to the limitations of this project. The total receipts from sales for the state as a whole given in this study are \$333,000,000. In a more detailed study of the agricultural income of the state since 1910 recently completed by the Agricultural Experiment Station, the income from sales for the year 1929 was found to be \$340,000,000. This difference is largely due to the inclusion in the latter study of more of the minor items of income. It was

deemed inadvisable to include them in the present study, because of the difficulty of making a satisfactory estimate by counties. The total receipts as given in this study are, therefore, probably an underestimate rather than an overestimate.

As pointed out above the data given here do not indicate the total value of agricultural production. It is only the amount received for that portion of the product which was sold. The value of that portion consumed on the farm as feed, seed, or for home use, etc., has not been included. Neither does it include the other sources of income of farmers such as income from outside work, appreciation on investment, interest on outside investment, etc. In other words the value of total production or of the total income to farmers would be much greater than the amount given in this report. The prices used were farm prices rather than market prices.

The county income was computed for the two years, 1927 and 1928. There have been included here only the data for 1929. As an indication of the usual sources of income from the different counties, the years 1927 and 1929 are considered more nearly normal because of the partial failure of the wheat crop in 1928. It is planned by the Experiment Station to compute this county income annually hereafter. Those interested in a more detailed account of the method of computing and a more complete statement of the agricultural income of the state should send to the Ohio Agricultural Experiment Station for the bulletin, "The Agricultural Income of Ohio."

Perhaps a brief explanation is necessary stating what has been included under some of the enterprise headings which might leave a doubt in the mind of the reader. Under the heading "DAIRY" has been included the income from

the sale of dairy products, veal calves and cull dairy cows, while under the enterprise headed "CATTLE," has been included the income from the sale of any cattle for meat purposes except veal calves and cull dairy cows. It should be noted that the cost of feeder cattle purchased has not been deducted from cattle sales. Under the heading "VEGETABLES" all vegetable crops, both greenhouse and outdoor production have been included except potatoes. Potatoes when grown near cities in trucking areas could very well have been included with other vegetables, but a large portion of them in Ohio are grown as a field crop, and for that reason the income from them has been estimated separately. The heading "POULTRY" in this study has been taken to mean the income from both eggs and poultry meats, while "SHEEP" includes wool and mutton.

The counties have been listed in nine groups for ease of comparing counties which have essentially the same type of agriculture. When arranged alphabetically, Allen follows Adams county, but scarcely anyone would be interested in comparing the two, because they are in nearly opposite corners of the state, and follow quite different types of agriculture. The group names refer to the position of the counties within the state.

Owing to the fact that there is such a great variation in the size of counties, the total gross cash income is unsatisfactory as a means of comparing two counties. For that reason, it was thought advisable to calculate the gross cash income per acre and per farm. In doing so, the total gross cash income was divided by the total number of acres of all land in farms in 1925. In estimating the gross cash income per farm, the total gross cash income was divided by the number of farms in each county as indicated by the 1930 census. It should be noted that the low income per acre was largely due to the fact that the acreage designated in the census as "all land in farms" includes

considerable areas of land not actually under cultivation and some not even used for pasture. In the following table the number following each enterprise name represents the percentage of the total gross cash income derived from that enterprise in the county. These percentages are only given as approximations. Dairying ranked first as a source of income for the state as a whole, and also in 48 counties, but in 25 counties hogs ranked first; in 5 cattle; in 3 poultry; in 3 vegetables; in 1 sheep; in 1 fruit; in 1 tobacco; and in 1 corn. Darke, Wood and Wayne Counties in the order named ranked first in volume of sales during the year 1929.

The following table gives by counties for the year 1929 the gross cash income from the sales of farm products, and the six leading sources of income arranged in order of importance and also the relative importance of each in terms of per cent of total income from sales.

The Estimated Gross Cash Income from the Sale of Agricultural Products from the Farm,
and the Per cent of the Total Coming from each of the most
Important Enterprises - 1929

County	Agricultural Gross Cash Income			Rank of the Sources of Income and their Relative Importance											Total Per Cent			
	Total (\$1000)	Per Acre	Per Farm	First	Pct. of Total	Second	Pct. of Total	Third	Pct. of Total	Fourth	Pct. of Total	Fifth	Pct. of Total	Sixth		Pct. of Total	Other	Pct. of Total
North West																		
Allen	\$4,510	\$19.80	\$1,680	Hogs	34	Dairy	19	Poultry	15	Cattle	9	Wheat	8	Sheep	4	11	100	
Defiance	3,232	13.80	1,570	Dairy	25	Poultry	20	Hogs	15	Wheat	10	Corn	8	Oats	5	17	100	
Fulton	5,131	21.60	1,830	Dairy	27	Hogs	25	Poultry	18	Cattle	8	Wheat	7	Corn	3	12	100	
Hancock	6,398	20.50	2,190	Hogs	35	Dairy	17	Poultry	12	Cattle	12	Wheat	11	Sheep	5	8	100	
Henry	4,593	18.50	1,800	Dairy	18	Poultry	18	Hogs	17	Corn	13	Wheat	10	Cattle	6	18	100	
Lucas	3,493	27.90	1,690	Veg.	23	Potatoes	17	Poultry	12	Dairy	10	Cattle	8	Wheat	8	22	100	
Paulding	3,151	13.80	1,690	Corn	22	Dairy	22	Hogs	18	Poultry	16	Oats	10	Cattle	3	9	100	
Putnam	5,735	20.80	2,020	Hogs	31	Poultry	15	Dairy	14	Cattle	13	Wheat	9	Corn	6	12	100	
Van Wert	3,716	15.00	1,540	Hogs	18	Dairy	18	Poultry	18	Corn	16	Oats	12	Cattle	8	10	100	
Williams	4,389	17.80	1,710	Dairy	28	Hogs	23	Poultry	18	Wheat	8	Cattle	8	Sheep	4	11	100	
Wood	8,110	22.90	2,170	Cattle	15	Hogs	15	Dairy	14	Corn	12	Poultry	11	Wheat	8	25	100	
North Central																		
Ashland	3,276	14.00	1,530	Dairy	30	Poultry	17	Wheat	15	Hogs	14	Cattle	8	Sheep	6	10	100	
Crawford	4,369	18.30	2,060	Hogs	26	Dairy	19	Wheat	14	Poultry	13	Cattle	13	Sheep	6	9	100	
Erie	2,563	18.80	1,500	Dairy	25	Wheat	15	Poultry	14	Fruit	11	Potatoes	9	Veg.	6	20	100	
Huron	3,590	12.90	1,450	Dairy	28	Wheat	19	Poultry	15	Hogs	10	Sheep	8	Potatoes	6	14	100	
Lorain	4,253	16.40	1,400	Dairy	58	Poultry	13	Wheat	9	Veg.	5	Fruit	5	Potatoes	3	7	100	
Ottawa	2,387	17.30	1,290	Dairy	16	Poultry	16	Fruit	14	Wheat	12	Corn	9	Cattle	9	24	100	
Richland	4,373	16.80	1,530	Dairy	29	Poultry	14	Wheat	13	Hogs	11	Potatoes	10	Cattle	7	16	100	
Sandusky	4,761	19.80	1,790	Dairy	19	Hogs	18	Wheat	12	Poultry	12	Potatoes	9	Cattle	9	21	100	
Seneca	6,180	19.30	2,130	Hogs	27	Wheat	18	Dairy	17	Poultry	12	Cattle	7	Sheep	6	13	100	
Wyandot	4,124	17.30	2,030	Hogs	33	Poultry	15	Dairy	14	Wheat	13	Sheep	10	Cattle	8	7	100	

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North East																		
Ashtabula	\$5,355	*15.00	\$1,220	Dairy	63	Poultry	13	Potatoes	6	Veg.	5	Fruit	5	Hay	2		6	100
Columbiana	3,615	13.80	1,090	Dairy	48	Poultry	20	Wheat	9	Potatoes	5	Fruit	5	Cattle	4		9	100
Cuyahoga	2,929	22.30	2,390	Veg.	51	Poultry	12	Dairy	12	Fruit	11	Potatoes	10	Wheat	2		2	100
Geauga	3,239	14.60	1,710	Dairy	54	Potatoes	17	Poultry	14	Maple P.	7	Wheat	2	Fruit	2		4	100
Lake	1,348	12.50	1,270	Dairy	29	Fruit	28	Poultry	17	Potatoes	9	Veg.	9	Wheat	3		5	100
Mahoning	2,874	11.90	1,260	Dairy	52	Poultry	16	Wheat	7	Potatoes	6	Veg.	5	Cattle	4	10		100
Medina	4,155	17.20	1,550	Dairy	54	Poultry	17	Wheat	11	Potatoes	6	Veg.	3	Hay	2		7	100
Portage	3,850	15.20	1,390	Dairy	55	Poultry	15	Potatoes	10	Wheat	7	Cattle	3	Veg.	2		8	100
Stark	5,160	17.20	1,510	Dairy	48	Poultry	15	Wheat	13	Veg.	6	Potatoes	5	Hogs	5		8	100
Summit	2,256	13.20	1,430	Dairy	46	Poultry	17	Wheat	10	Veg.	10	Potatoes	7	Fruit	3		7	100
Trumbull	3,699	12.40	1,250	Dairy	57	Poultry	18	Potatoes	8	Veg.	4	Wheat	3	Hay	3		7	100
Wayne	7,190	22.10	1,960	Dairy	45	Wheat	17	Poultry	16	Hogs	8	Potatoes	5	Cattle	4		5	100
West Central																		
Auglaize	4,839	20.40	1,930	Hogs	32	Dairy	20	Poultry	15	Wheat	10	Cattle	10	Sheep	3	10		100
Champaign	4,828	19.00	2,260	Hogs	39	Dairy	22	Wheat	10	Poultry	10	Cattle	9	Sheep	4		6	100
Clark	4,169	19.30	1,830	Hogs	29	Dairy	24	Wheat	12	Cattle	10	Poultry	9	Sheep	4		12	100
Darke	8,720	23.80	1,800	Hogs	29	Tobacco	20	Dairy	15	Poultry	15	Wheat	10	Cattle	4		7	100
Hardin	5,217	18.70	2,050	Hogs	25	Veg.	16	Poultry	12	Dairy	11	Cattle	10	Sheep	7		19	100
Logan	3,792	14.30	1,550	Hogs	27	Dairy	22	Poultry	17	Cattle	11	Sheep	10	Wheat	4		9	100
Mercer	4,577	16.70	1,660	Hogs	29	Poultry	19	Dairy	19	Wheat	10	Cattle	8	Oats	5		10	100
Miami	5,106	21.60	1,800	Dairy	19	Hogs	15	Wheat	14	Tobacco	14	Poultry	12	Corn	10		16	100
Shelby	4,167	17.30	1,730	Hogs	23	Dairy	20	Poultry	16	Wheat	12	Corn	8	Cattle	8		13	100

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Central																	
Delaware	\$3,953	\$14.50	\$1,410	Dairy	41	Poultry	16	Hogs	14	Sheep	9	Cattle	7	Wheat	7	6	100
Fairfield	5,417	18.60	1,810	Hogs	23	Cattle	20	Dairy	17	Wheat	13	Poultry	12	Corn	6	9	100
Fayette	4,753	20.20	3,030	Hogs	50	Cattle	12	Dairy	9	Poultry	8	Corn	8	Wheat	6	7	100
Franklin	4,801	18.10	1,610	Dairy	35	Hogs	15	Poultry	14	Wheat	9	Veg.	9	Corn	5	13	100
Knox	4,324	14.10	1,580	Dairy	22	Sheep	20	Poultry	15	Hogs	14	Wheat	14	Cattle	8	7	100
Licking	5,115	12.90	1,250	Dairy	35	Poultry	15	Sheep	13	Hogs	13	Wheat	9	Cattle	9	6	100
Madison	4,699	16.90	2,980	Hogs	38	Cattle	13	Dairy	12	Corn	11	Wheat	11	Poultry	8	7	100
Marion	3,856	16.80	2,070	Hogs	31	Dairy	19	Poultry	14	Wheat	10	Cattle	9	Sheep	8	9	100
Morrow	3,151	13.60	1,340	Dairy	26	Poultry	18	Sheep	15	Hogs	15	Wheat	12	Cattle	7	7	100
Pickaway	5,728	19.60	2,820	Hogs	35	Cattle	18	Wheat	13	Dairy	11	Corn	9	Poultry	8	6	100
Ross	4,497	12.10	1,880	Hogs	27	Cattle	22	Wheat	11	Poultry	10	Corn	10	Dairy	9	11	100
Union	3,945	15.90	1,720	Dairy	29	Hogs	23	Poultry	18	Sheep	8	Cattle	7	Wheat	6	9	100
East Central																	
Belmont	3,182	11.30	1,020	Dairy	38	Poultry	20	Cattle	17	Sheep	6	Veg.	5	Hogs	4	10	100
Carroll	1,850	8.50	1,030	Dairy	34	Poultry	20	Sheep	12	Cattle	12	Wheat	8	Hogs	6	8	100
Coshocton	3,081	9.60	1,060	Dairy	25	Cattle	18	Poultry	16	Sheep	16	Hogs	12	Wheat	9	4	100
Harrison	1,801	7.80	1,000	Sheep	29	Dairy	26	Poultry	16	Cattle	15	Hogs	6	Wheat	5	3	100
Holmes	3,256	13.40	1,450	Dairy	37	Poultry	22	Wheat	16	Hogs	14	Cattle	4	Sheep	4	3	100
Jefferson	1,326	7.00	830	Dairy	43	Poultry	20	Cattle	12	Sheep	8	Wheat	5	Veg.	4	8	100
Tuscarawas	3,367	11.50	1,230	Dairy	43	Poultry	14	Wheat	12	Hogs	10	Cattle	9	Sheep	3	9	100

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South West																		
Butler	\$4,470	\$17.40	\$1,800	Dairy	35	Hogs	26	Wheat	11	Poultry	11	Cattle	5	Corn	3		9	100
Clermont	2,657	10.10	880	Dairy	32	Poultry	28	Tobacco	12	Hogs	9	Fruit	4	Cattle	3		12	100
Clipton	4,148	17.10	1,970	Hogs	44	Dairy	15	Poultry	13	Wheat	9	Cattle	6	Sheep	6		7	100
Greene	5,131	21.50	2,360	Hogs	43	Dairy	21	Wheat	12	Poultry	10	Cattle	5	Sheep	5		4	100
Hamilton	4,706	28.70	2,010	Dairy	35	Veg.	18	Potatoes	13	Poultry	11	Hogs	8	Fruit	3		12	100
Montgomery	5,846	24.50	1,580	Dairy	28	Tobacco	23	Poultry	12	Wheat	12	Hogs	12	Cattle	5		8	100
Preble	5,802	22.90	2,100	Hogs	38	Dairy	15	Wheat	12	Poultry	11	Tobacco	9	Cattle	9		6	100
Warren	3,842	16.20	1,730	Dairy	28	Hogs	27	Poultry	13	Wheat	9	Tobacco	8	Cattle	6		9	100
South Central																		
Adams	2,661	8.60	940	Tobacco	23	Poultry	21	Dairy	19	Cattle	12	Hogs	10	Corn	6		9	100
Brown	3,477	11.80	1,050	Dairy	22	Poultry	20	Hogs	20	Tobacco	19	Corn	7	Cattle	5		7	100
Gallia	2,141	8.90	790	Poultry	22	Dairy	21	Fruit	17	Cattle	14	Tobacco	11	Sheep	4		11	100
Highland	4,014	12.00	1,330	Hogs	33	Poultry	19	Dairy	18	Cattle	11	Wheat	6	Sheep	4		9	100
Jackson	1,349	6.80	390	Cattle	31	Dairy	21	Poultry	17	Fruit	7	Wheat	5	Hogs	5		14	100
Lawrence	1,871	10.00	830	Fruit	42	Dairy	18	Cattle	11	Poultry	11	Tobacco	6	Veg.	4		8	100
Pike	1,152	5.50	740	Poultry	22	Hogs	21	Cattle	17	Dairy	14	Wheat	6	Corn	4		16	100
Scioto	2,024	8.20	990	Dairy	32	Corn	18	Poultry	15	Potatoes	10	Cattle	6	Veg.	4		15	100

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South East																	
Athens	\$1,774	7.40	\$ 900	Dairy	28	Cattle	23	Poultry	21	Sheep	8	Fruit	8	Potatoes	4	8	100
Guernsey	2,182	7.60	820	Dairy	38	Cattle	24	Poultry	17	Sheep	10	Wheat	4	Hogs	3	4	100
Hocking	1,123	5.90	780	Dairy	27	Cattle	20	Poultry	19	Hogs	10	Wheat	6	Potatoes	6	12	100
Meigs	1,880	7.90	830	Poultry	28	Dairy	25	Cattle	16	Potatoes	11	Sheep	6	Fruit	4	10	100
Monroe	1,621	6.60	630	Dairy	37	Poultry	29	Cattle	14	Sheep	4	Hogs	4	Wheat	3	9	100
Morgan	1,930	8.20	860	Cattle	26	Poultry	25	Sheep	19	Dairy	17	Wheat	3	Potatoes	3	7	100
Muskingum	3,229	9.00	990	Dairy	27	Cattle	24	Poultry	18	Sheep	12	Hogs	7	Wheat	5	7	100
Noble	2,081	8.90	900	Cattle	34	Dairy	26	Poultry	20	Sheep	12	Wheat	2	Hogs	2	4	100
Perry	1,920	10.10	990	Dairy	25	Cattle	20	Hogs	16	Poultry	15	Wheat	11	Sheep	6	7	100
Vinton	681	3.60	660	Cattle	28	Poultry	28	Dairy	26	Sheep	6	Wheat	4	Potatoes	3	5	100
Washington	4,081	11.40	1,100	Veg.	27	Cattle	21	Dairy	17	Poultry	15	Potatoes	7	Wheat	3	10	100
State	\$333,291	\$15.00	\$1,520	Dairy	26	Hogs	18	Poultry	15	Cattle	9	Wheat	9	Sheep	4	19	100

