

APPENDIXES.

APPENDIX A.—SCOPE OF THE CENSUS OF MANUFACTURES.

The census does not cover establishments which are idle during the entire year or those which had a value of products of less than \$500, or the manufacturing done in educational, eleemosynary, and penal institutions.

The censuses of 1919, 1914, 1909, and 1904 were taken in conformity with the provision of the law which directs that the canvass shall "be confined to manufacturing establishments conducted under what is known as the factory system, exclusive of the so-called neighborhood, household, and hand industries." In arranging for the census, a broad construction is given to the term "factory system." In order that the factory system should be properly represented, it was decided to include all establishments with the following exceptions:

1. All establishments reporting products valued at less than \$500 during the census year.
2. Establishments doing only work to the order of the individual consumer, such as custom tailoring, dressmaking, millinery, and shoemaking establishments, the aim being to confine the census to establishments producing for the general or wholesale trade. This rule did not apply to large concerns manufacturing to meet special orders.
3. Establishments engaged in the building industries other than those manufacturing building materials for the general trade.
4. Establishments engaged in the so-called neighborhood industries and hand trades, such as blacksmithing, harness making, and tinsmithing, in which little, if any, power machinery is used, and which usually do only a local business.
5. Small custom flour, feed, and grist mills and sawmills grinding or sawing for toll or for local consumption exclusively.
6. Retail stores which incidentally manufacture on a small scale, particularly where it is impossible to distinguish the data relating to the manufacturing business from those relating to the mercantile business.
7. Educational, eleemosynary, and penal institutions engaged in manufacturing industries.

APPENDIX B.—METHOD FOR OBTAINING AN INDEX OF MATERIALS USED IN THE SLAUGHTERING AND MEAT-PACKING AND LEATHER INDUSTRIES.

In a number of industries the physical data collected by the Census Bureau are not strictly homogeneous. In 16 of the industries discussed in Chapter III there is some single physical unit of measurement, such as tons of pig iron, number of vehicles, or spindles in operation. In the slaughtering and meat-packing industry many different materials are used and many different products manufactured. Likewise in the leather industry the raw materials are of many kinds and the products varied. These two industries, in which there is no single basic unit, are of such significance as to warrant special consideration.

Composite indexes of materials used have been obtained by using a simple weighted arithmetic average, the weights employed being the value per unit of each commodity in 1914. As can be readily seen, in the slaughtering and meat-packing index, the variations in beeves are most important, whereas in the leather industry cattle hides are the most significant item. The data and computation are given in Tables 71 and 72.

TABLE 71.—CONSTRUCTION OF INDEX NUMBERS OF MATERIALS USED FOR SLAUGHTERING AND MEAT-PACKING INDUSTRY: 1889 TO 1919.

CENSUS YEAR.	SLAUGHTERING AND MEAT-PACKING.					Index number.
	Beeves (weight 11).	Calves (weight 2).	Sheep (weight 1).	Hogs (weight 3).	Weighted total.	
	<i>Thousands.</i>	<i>Thousands.</i>	<i>Thousands.</i>	<i>Thousands.</i>	<i>Thousands.</i>	
1889.....	5,422	300	6,178	22,349	133,467	100.0
1899.....	5,526	884	9,110	30,596	163,452	122.5
1904.....	7,148	1,568	10,875	30,978	185,573	139.0
1909.....	8,115	2,505	12,256	33,871	208,144	155.9
1914.....	7,149	2,019	15,944	34,442	201,947	151.3
1919.....	10,819	4,396	13,497	44,521	274,861	205.9

TABLE 72.—CONSTRUCTION OF INDEX NUMBERS OF MATERIALS USED FOR THE LEATHER INDUSTRY: 1899 TO 1919.

CENSUS YEAR.	LEATHER, TANNED, CURRIED, AND FINISHED.				Weighted total.	Index number.
	Cattle hides (weight 17).	Calfskins (weight 4).	Goat and kid skins (weight 1).	Sheep and lamb skins (weight 1).		
	<i>Thousands.</i>	<i>Thousands.</i>	<i>Thousands.</i>	<i>Thousands.</i>	<i>Thousands.</i>	
1899.....	15,839	8,944	48,047	24,508	377,594	100.0
1904.....	17,582	12,481	47,666	27,492	423,976	112.3
1909.....	18,360	19,733	48,078	26,082	465,212	123.2
1914.....	17,458	16,068	37,756	40,090	438,904	116.2
1919.....	22,185	12,894	55,429	22,766	506,915	134.2

APPENDIX C.—INDUSTRIES CLASSED AS MISCELLANEOUS AND HAVING ESTABLISHMENTS AMONG 4,813 CENTRAL-OFFICE GROUPS: 1919.

Aeroplanes, seaplanes, airships, and parts.	Jewelry and instrument cases.
Agricultural implements.	Mattresses and spring beds, not elsewhere specified.
Ammunition.	Models and patterns, not including paper patterns.
Artificial flowers.	Mucilage, paste, and other adhesives, not elsewhere specified.
Artificial limbs.	Musical instruments and materials, not specified.
Artists' materials.	Musical instruments, organs.
Asbestos products, not including steam packing.	Musical instruments, pianos.
Belting and hose, rubber.	Musical instruments, piano and organ materials.
Boots and shoes, rubber.	Optical goods.
Brooms.	Paving materials.
Brushes.	Pencils, lead.
Buttons.	Phonographs and graphophones.
Combs and hairpins, except those made from metal or rubber.	Photographic apparatus.
Dairymen's, poultrymen's, and apiarists' supplies.	Photographic materials.
Dental goods.	Roofing materials.
Electrical machinery, apparatus, and supplies.	Rubber tires, tubes, and rubber goods, not elsewhere specified.
Engravers' materials.	Sand and emery paper and cloth.
Fancy articles, not elsewhere specified.	Shipbuilding, steel.
Feathers and plumes.	Shipbuilding, wooden, including boat building.
Fire extinguishers, chemical.	Signs and advertising novelties.
Fireworks.	Soda-water apparatus.
Foundry supplies.	Sporting and athletic goods.
Fuel, manufactured.	Stationery goods, not elsewhere specified.
Fur goods.	Steam packing.
Furs, dressed.	Surgical appliances.
Hair work.	Toys and games.
Hand stamps.	Umbrellas and canes.
Hats, straw.	Washing machines and clothes wringers.
Ice, manufactured.	Window shades and fixtures.
Instruments, professional and scientific.	Wood carpet.
Ivory, shell, and bone work, not including combs and hairpins.	

APPENDIX D.—INDUSTRIES NOT REPRESENTED BY ESTABLISHMENTS IN CENTRAL-OFFICE COMBINATIONS, WITH NUMBER OF ESTABLISHMENTS, AVERAGE NUMBER OF WAGE EARNERS, AND VALUE OF PRODUCTS: 1919.

INDUSTRY GROUP.	Number of establishments.	Average number of wage earners.	Value of products.
Total.....	1,367	31,333	\$185,198,843
Butter, reworking.....	5	47	2,229,035
Card cutting and designing.....	75	1,148	5,323,349
Cardboard, not made in paper mills.....	16	1,425	9,138,415
China decorating, not including that done in potteries.....	43	244	866,762
Cloth sponging and refinishing.....	67	1,206	3,690,858
Enameling.....	74	694	2,644,763
Engraving, wood.....	55	235	1,153,618
Graphite, ground and refined.....	24	497	2,239,587
Haircloth.....	18	425	3,315,113
Hammocks.....	6	64	255,755
Japanning.....	36	295	771,143
Lapidary work.....	124	1,155	30,051,460
Lard, not made in slaughtering and meat-packing establishments.....	6	13	219,660
Linen goods.....	10	1,890	6,998,046
Millstones.....	12	38	66,896
Paper patterns.....	19	403	1,528,382
Pens, fountain and stylographic.....	56	3,207	15,996,808
Pens, gold.....	15	416	1,801,460
Pens, steel.....	4	807	1,679,541
Pipes, tobacco.....	56	2,539	11,553,777
Pulp, from fiber other than wood.....	5	64	524,444
Pumps, not including power pumps.....	127	5,384	31,656,438
Rules, ivory and wood.....	13	168	480,543
Show cases.....	19	1,857	8,294,308
Smelting and refining, metals, not elsewhere specified ¹	23	2,041	20,074,504
Statuary and art goods.....	195	1,466	5,019,521
Stencils and brands.....	84	417	1,597,785*
Theatrical scenery.....	17	149	1,067,033
Wheelbarrows.....	11	291	1,679,538
Whips.....	26	717	2,986,285
Windmills.....	31	1,932	9,932,585
Other industries ²	5	99	361,431

¹ Includes "smelting and refining, antimony" and "smelting and refining, tin," to avoid disclosing individual operations.

² Comprises 3 industries ("Straw goods, not elsewhere specified;" "whalebone cutting;" and "wood carpet") combined to avoid disclosing individual operations.