

# PRODUCTS OF MANUFACTURING INDUSTRIES, BY KIND, QUANTITY, VALUE, AND NUMBER OF ES- TABLISHMENTS REPORTING: 1929

[This table presents statistics for all commodities covered by the Census of Manufactures classifications, except those for which the figures must be withheld from publication in order to avoid disclosing, exactly or approximately, the data reported by individual establishments. (See sec. 7 of General Explanations)]

## INDUSTRY GROUP 1.—FOOD AND KINDRED PRODUCTS

PRODUCT	Number of establishments	Quantity	Value
<b>BEVERAGES</b>			
Aggregate.....	(1)		\$205, 430, 436
Carbonated beverages.....	5, 118		210, 210, 938
Cereal beverages.....	228		45, 959, 490
Still beverages.....	280		4, 111, 309
Grape juice.....	45		5, 148, 708
<b>BREAD AND OTHER BAKERY PRODUCTS</b>			
Aggregate.....	(1)		<sup>2</sup> \$1,394, 614, 614
		<i>Pounds</i>	
Bread, rolls, and coffee cake.....	8, 335	9, 804, 221, 325	762, 352, 193
Biscuits, crackers, and cookies.....	350	1, 348, 796, 253	263, 490, 172
Pretzels.....	151	45, 303, 341	7, 274, 488
Soft cake: Pound cake, package cake, fruit cake, etc.....	5, 794		233, 351, 501
		<i>Dozens</i>	
Doughnuts, crullers, and other fried cakes <sup>3</sup> .....	3, 951	201, 001, 442	40, 130, 188
Pies.....	4, 255		74, 903, 165
Other products.....	915		13, 098, 907
<b>BUTTER, CHEESE, AND CONDENSED AND EVAPORATED MILK</b>			
Aggregate.....	(1)		\$1, 030, 540, 033
		<i>Pounds</i>	
Creamery butter.....	3, 066	1, 615, 688, 347	705, 080, 195
Whey butter.....	111	1, 655, 836	463, 517
Butter oil.....	12	747, 327	303, 189
Cheese, other than cottage, pot, and bakers' total.....	4, 270	487, 200, 055	103, 291, 568
American (whole-milk, part-skim, and skim).....	2, 241	375, 370, 989	70, 804, 100
Swiss (block), brick, Munster, and Limburger.....	519	58, 133, 000	12, 075, 845
Cream and Neuchatel.....	68	42, 002, 538	11, 123, 014
Italian.....	41	5, 579, 239	1, 064, 118
Other varieties.....	25	3, 113, 209	1, 224, 391
Cheese, cottage, pot, and bakers'.....	465	100, 826, 242	9, 431, 803
Condensed and evaporated milk and buttermilk, total.....	4, 504	2, 310, 727, 133	173, 316, 186
Condensed milk (sweetened), total.....	4, 244	532, 723, 652	42, 917, 241
Case goods.....	63	245, 343, 064	24, 435, 490
Bulk goods.....	203	280, 382, 688	18, 481, 751
Evaporated milk (unsweetened), total <sup>4</sup> .....	4, 253	1, 042, 213, 561	126, 202, 159
Case goods.....	134	1, 305, 704, 143	110, 822, 324
Bulk goods.....	144	275, 449, 418	15, 379, 835
Condensed and evaporated buttermilk.....	105	135, 786, 920	4, 196, 786

See footnotes on p. 20.

INDUSTRY GROUP 1.—FOOD AND KINDRED PRODUCTS—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>BUTTER, CHEESE, AND CONDENSED AND EVAPORATED MILK—Continued</b>			
Powdered whole milk, powdered cream, and powdered skim milk.....	239	<i>Pounds</i> 220,714,282	\$20,178,453
Dried and powdered buttermilk.....	243	67,877,315	4,306,706
Sterilized milk (canned).....	7	6,711,185	498,452
Sugar of milk (crude).....	9	7,101,549	685,809
Ice-cream mix.....	319	137,202,922	15,278,194
Dried casein.....	191	57,820,167	5,725,571

CANNING AND PRESERVING

Aggregate.....	(1)		\$797,838,610
Vegetables, soups, and fruits, total.....	(1)		539,434,002
Canned vegetables and soups, total.....	1,683	<i>Number of cases</i> 132,196,545	325,738,329
Beans, with pork, with sauce, and baked.....	58	17,203,772	35,550,381
Beans, other than those above, total.....	4,622	13,613,257	34,107,204
Beans, green.....	410	6,480,813	16,212,006
Beans, wax.....	157	1,246,456	3,413,431
Beans, lima.....	61	1,500,839	4,466,333
Beans, other.....	106	4,385,140	10,014,534
Peas.....	342	17,546,469	44,507,511
Tomatoes.....	1,069	21,401,255	42,170,555
Corn.....	457	16,723,516	36,707,117
Asparagus.....	55	2,727,471	15,465,460
Spinach.....	100	4,815,024	12,131,323
Kraut <sup>a</sup> .....	104	4,224,114	8,421,600
Spaghetti.....	21	4,239,075	8,320,210
Tomato pulp <sup>b</sup> .....	157	2,891,177	5,293,703
Beets.....	121	1,911,020	4,576,884
Pumpkin and squash.....	124	2,424,028	4,214,966
Tomato paste.....	37	606,140	3,840,254
Tomato sauce.....	37	952,482	2,548,608
Tomato.....	27	1,765,324	2,531,737
Plum-toms.....	20	506,012	2,014,405
Vegetables, mixed.....	38	824,718	1,981,055
Sweet potatoes.....	32	308,093	847,318
Succotash.....	50	289,743	770,795
Greens, other than spinach.....	41	252,830	575,522
Other canned vegetables and canned soups.....	228	16,910,416	59,056,058
Canned fruits, total.....	4,484	33,050,106	137,309,341
Peaches.....	123	8,723,622	35,678,117
Pears.....	149	4,031,622	24,450,473
Apricots.....	96	4,267,204	17,134,232
Cherries, total.....	4,165	2,140,856	11,780,823
Cherries, sweet.....	98	1,017,001	6,083,935
Cherries, sour.....	115	1,123,855	5,696,888
Fruits, for salad.....	22	1,679,889	11,005,353
Berries, total.....	4,159	2,516,374	10,749,966
Raspberries.....	92	608,335	3,269,177
Strawberries.....	51	403,204	2,418,250
Blackberries.....	72	844,060	2,417,674
Loganberries.....	36	358,807	1,319,463
Blueberries.....	33	228,441	1,112,005
Other berries.....	35	73,521	222,397
Apples.....	103	3,592,551	7,940,987
Olives, ripe <sup>10</sup> .....	36	933,972	4,675,118
Grapefruit.....	28	1,174,823	4,136,893
Prunes.....	55	1,009,134	3,225,100
Apple sauces.....	25	903,391	2,446,796
Plums.....	30	171,044	559,985
Grapefruit juice.....	13	115,708	490,490
Other canned fruits.....	52	820,826	3,128,008

See footnotes on p. 20.

## INDUSTRY GROUP 1.—FOOD AND KINDRED PRODUCTS—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>CANNING AND PRESERVING—Continued</b>			
<b>Vegetables, soups, and fruits—Continued.</b>			
Dried fruits, total.....	4 283	<i>Pounds</i> 938, 698, 615	\$75, 891, 668
Prunes.....	89	347, 349, 407	30, 361, 669
Raisins.....	37	421, 203, 696	23, 513, 224
Apricots.....	38	43, 089, 630	7, 320, 041
Apples.....	159	44, 610, 712	5, 206, 137
Peaches.....	32	35, 849, 639	4, 307, 697
Figs.....	26	28, 020, 931	2, 770, 027
Other dried fruits.....	51	18, 565, 900	2, 412, 973
Dried and dehydrated vegetables.....	16		404, 764
Preserves, jams, jellies, and fruit butters.....	304		47, 140, 358
Pickles, sauces, salad dressings, etc., ketchup and prepared horseradish, total.....	4 795		135, 202, 542
Salad dressings:			
Cooked.....	23		3, 068, 167
Mayonnaise.....	172		20, 699, 641
Other raw dressing.....	105		9, 875, 966
Sauces.....	126		9, 012, 864
Prepared mustard.....	129		8, 155, 170
Prepared horseradish.....	88		1, 375, 128
Pickles.....	283		34, 480, 925
Ketchup.....	130		24, 437, 243
Olives, bottled and in bulk <sup>11</sup> .....	60		9, 397, 694
Kraut, in bulk <sup>12</sup> .....	140		4, 270, 605
Tomato pulp, in bulk <sup>13</sup> .....	48		889, 149
Fish, crabs, shrimps, oysters, and clams, total.....	4 364		75, 992, 708
Canned fish, oysters, etc., total.....	4 245	<i>Standard cases</i> 15, 134, 355	58, 469, 890
Sardines (100 No. ¼ cans).....	61	0, 272, 942	18, 193, 424
Salmon (48 1-pound cans).....	62	1, 561, 358	14, 308, 102
Tuna (48 No. ¼ cans).....	16	1, 540, 793	10, 798, 274
Shrimps.....	61	<sup>14</sup> 979, 953	5, 535, 487
Mackerel (48 1-pound cans).....	21	575, 344	2, 320, 004
Oysters (48 No. 1 cans).....	55	454, 858	2, 173, 639
Clam chowder, juice, bouillon, and broth (48 No. 1 cans).....	15	206, 543	1, 230, 554
Clams (48 No. 1 cans).....	31	167, 029	943, 366
Other canned fish (48 1-pound cans).....	17	74, 007	520, 575
Canned fish products (48 1-pound cans).....	33	211, 528	2, 451, 465
Cured fish, total.....	4 137	<i>Pounds</i> 102, 488, 669	17, 522, 818
Smoked fish, total.....	4 72	33, 773, 870	9, 173, 447
Salmon.....	30	11, 192, 441	4, 082, 945
Herring.....	30	7, 030, 103	912, 054
Finnan haddock.....	14	4, 808, 375	599, 183
Other smoked fish.....	41	10, 733, 751	3, 579, 265
Dried fish, total.....	4 22	12, 322, 302	1, 108, 181
Cod.....	14	8, 392, 730	812, 881
Other dried fish.....	11	3, 929, 563	385, 300
Salted and pickled fish, total.....	4 68	42, 681, 698	4, 527, 335
Salmon.....	20	5, 098, 192	1, 518, 510
Herring.....	28	14, 766, 291	1, 428, 349
Mackerel.....	13	8, 131, 840	884, 525
Cod.....	14	7, 223, 274	471, 383
Haddock.....	10	6, 976, 857	151, 989
Other salted and pickled fish.....	8	488, 144	72, 579
Boneless fish, total.....	4 26	13, 711, 089	2, 623, 855
Cod.....	20	11, 177, 771	2, 275, 141
Haddock.....	7	1, 799, 938	211, 366
Other boneless fish.....	9	793, 380	137, 328

See footnotes on p. 20.

INDUSTRY GROUP 1.—FOOD AND KINDRED PRODUCTS—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>CEREAL PREPARATIONS</b>			
Aggregate.....	(1)		\$172,002,296
Breakfast foods, total.....	4 217		121,106,824
		<i>Pounds</i>	
Made from wheat.....	131	(16)	47,385,735
Made from oats.....	36	718,382,081	36,419,309
Made from corn.....	42	883,867,163	27,468,433
Made from other grains and from mixed grains.....	20	58,365,090	9,843,347
Prepared flour.....	343	1,094,685,041	42,370,010
Coffee substitutes.....	11	19,810,065	5,263,102
Other cereal preparations.....	10	(17)	3,272,360

<b>CHEWING GUM</b>			
Chewing gum.....	64		\$68,568,970

<b>CHOCOLATE AND COCOA PRODUCTS</b>			
Aggregate.....	(1)		\$110,359,295
Chocolate, total.....	4 69		97,148,605
		<i>Pounds</i>	
Unsweetened.....	15	10,773,480	8,698,675
Sweet and milk chocolate, total.....	4 52	142,210,408	44,504,853
Sweet chocolate—			
Plain.....	34	17,879,826	5,018,438
With nuts, etc.....	11	4,935,500	1,423,027
Milk chocolate—			
Plain.....	33	63,663,219	18,927,556
With nuts, etc.....	28	51,794,801	18,120,800
Not separately reported as to kind (sweet or milk, plain or with nuts).....	9	3,966,012	1,014,102
Coatings, total.....	4 50	266,855,296	48,945,047
Sweet.....	50	148,195,534	25,054,543
Milk.....	45	93,538,153	19,252,704
Liquor.....	40	25,121,609	4,637,740
Cocoa, powdered, total.....	4 45	105,693,079	15,053,947
Unsweetened—			
In cans of 1 pound or less.....	31	31,714,738	7,023,177
In cans of more than 1 pound.....	24	7,035,132	878,100
In barrels and drums.....	42	55,100,317	4,794,328
Sweetened—			
In cans of 1 pound or less.....	12	4,052,595	1,199,320
In cans of more than 1 pound.....	10	1,876,973	508,835
In barrels and drums.....	17	5,848,224	650,187
Cocoa butter.....	20	19,183,691	5,428,548
Other chocolate and cocoa products.....	12		1,728,195

<b>COFFEE AND SPICE, ROASTING AND GRINDING</b>			
Aggregate.....	(1)		\$413,710,436
		<i>Pounds</i>	
Coffee, roasted and ground.....	912	1,104,013,275	390,012,192
Spices, ground.....	164	63,501,142	23,698,244

See footnotes on p. 20.

## INDUSTRY GROUP 1.—FOOD AND KINDRED PRODUCTS—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>CONFECTIONERY</b>			
Aggregate.....	(1)		\$388, 231, 171
		<i>Pounds</i>	
Chocolates, total.....	1, 020	384, 327, 446	128, 296, 527
Fancy packages.....	672	149, 239, 653	73, 561, 478
Bulk.....	788	171, 121, 809	43, 889, 049
Count.....	180	63, 966, 484	10, 846, 000
Bars, total.....	648	454, 300, 560	85, 714, 271
Chocolate-covered.....	480	367, 771, 586	68, 120, 516
Other kinds.....	376	86, 528, 994	17, 593, 755
Hard candy.....	645	227, 797, 786	33, 983, 554
Caramels and chewing candy.....	397	92, 855, 430	15, 128, 700
Gum work.....	177	96, 521, 801	10, 771, 279
Pan work.....	186	68, 022, 483	9, 369, 288
Marshmallows.....	185	53, 753, 880	8, 427, 853
Lozenges.....	31	29, 294, 070	6, 137, 785
Other confectionery, except salted nuts.....	401		45, 617, 820
Confectionery not reported by kind.....	497		26, 151, 603
Salted nuts.....	311		19, 602, 480

## CORN SIRUP, CORN SUGAR, CORN OIL, AND STARCH

Aggregate <sup>18</sup> .....	(1)		\$135, 215, 884
		<i>Pounds</i>	
Corn sirup and mixtures of corn and other sirups, total.....	11	1, 105, 183, 157	40, 553, 180
Corn sirup, unmixed.....	11	924, 614, 732	27, 951, 363
Mixtures of corn and other sirups.....	3	240, 568, 425	12, 601, 817
Corn sugar.....	11	806, 121, 276	30, 217, 221
Corn oil, total.....	19	170, 498, 780	20, 164, 750
Corn oil, crude.....	12	89, 556, 989	7, 172, 498
Corn oil, refined.....	13	86, 941, 791	12, 992, 252
Starch, total <sup>19</sup> .....	32	1, 123, 450, 908	42, 830, 055
Corn.....	11	1, 046, 435, 117	30, 284, 604
Potato.....	17	14, 539, 700	491, 555
Other <sup>20</sup> .....	7	62, 476, 070	3, 053, 896
Corn-oil cake and meal.....	11	<i>Tons</i> 35, 000	1, 450, 678

## FEEDS, PREPARED, FOR ANIMALS AND FOWLS

Aggregate.....	(1)		\$494, 515, 093
		<i>Tons</i>	
Made chiefly from grain <sup>21</sup> .....	1, 109	7, 667, 318	339, 447, 630
Made chiefly from ingredients other than grain.....	610	(17)	155, 067, 783

## FLAVORING EXTRACTS AND FLAVORING SIRUPS

Aggregate.....	(1)		\$143, 032, 402
		<i>Gallons</i>	
Flavoring sirups.....	344	38, 081, 120	50, 597, 118
Flavoring extracts.....	808	4, 850, 069	35, 564, 071
		<i>Pounds</i>	
Malt extracts and malt sirups.....	128	426, 708, 650	36, 940, 190
		<i>Gallons</i>	
Crushed fruits.....	60	2, 047, 267	5, 581, 151
Concentrates.....	75	(2)	4, 544, 629
Fruit juices.....	117	2, 603, 908	3, 592, 902
Colors, total.....	63		2, 367, 205
Burnt-sugar.....	18	1, 450, 703	991, 882
		<i>Pounds</i>	
Powder.....	25	418, 708	941, 772

See footnotes on p. 20.

INDUSTRY GROUP 1.—FOOD AND KINDRED PRODUCTS—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>FLAVORING EXTRACTS AND FLAVORING SIRUPS—Continued</b>			
Liquid.....	41	<i>Gallons</i> 105,052	\$270,225
Paste.....	11	<i>Pounds</i> 278,550	163,326
Flavoring powders.....	33	7,022,567	2,240,387
Flavoring pastes.....	16	2,071,993	1,019,464
Cordials.....	17	<i>Gallons</i> 231,067	578,085

**FLOUR AND OTHER GRAIN-MILL PRODUCTS**

Aggregate.....	(1)		\$1,040,185,248
Wheat flour, total.....	4 2,579	<i>Barrels</i> 120,030,673	737,308,568
White flour.....	2,491	113,034,325	691,242,527
Graham and whole-wheat.....	246	1,361,895	8,415,715
Semolina.....	15	2,959,322	16,895,842
Prepared flour <sup>23</sup> .....	178	2,084,131	20,754,979
Rye flour.....	97	1,678,822	9,170,272
Corn flour.....	27	589,073	3,120,580
Buckwheat flour.....	134	<i>Pounds</i> 38,452,929	1,569,923
Other flour.....	22	21,090,575	781,708
Corn meal.....	1,725	<i>Bbls—200 lbs.</i> 10,488,083	52,399,787
Brans and middlings.....	1,957	<i>Short tons</i> 4,681,802	141,085,187
Feed, screenings, etc.....	2,009	2,471,661	93,840,228

**FOOD PREPARATIONS, NOT ELSEWHERE CLASSIFIED**

Aggregate.....	(1)		\$187,202,930
Meat products, such as sliced and packed bacon, dried beef, pickled pigs' feet, boiled and boneless ham, calves heads, corned meats (not including poultry), brains, tongue, tripe, etc.....	90		16,370,980
Peanut products, total.....	4 188		17,990,920
Peanut butter.....	169	<i>Pounds</i> 97,359,633	15,861,354
Peanut oil.....	14	17,283,256	1,113,070
Peanut cake and meal.....	9	23,237,656	710,618
Other peanut products.....	9		305,878
Sweetening sirups and molasses, total.....	4 152		20,690,842
Sirups, mixed or blended, including sirup and molasses mixtures.....	126	307,060,501	23,168,129
Molasses, mixed or blended.....	19	30,220,340	2,277,212
Other sweetening preparations.....	31		1,245,501
Blended cheese and cheese spread.....	9	51,370,823	15,655,034
Chicory root (dried).....	10	30,905,867	1,554,145
Desserts, ready to mix, total.....	4 64		24,373,473
Gelatin, "Jello", tapioca, etc.....	46		21,451,179
Plum and fig puddings.....	6		470,788
Other desserts.....	14		2,451,508
"Health foods".....	42		10,615,696
Ice-cream cones.....	104		5,127,356
Italian, Spanish, and Mexican preparations, other than cakes, total.....	4 68		6,319,190
Chile con carne.....	43		2,825,918
Tamales.....	54		2,026,194
Other preparations.....	30		1,467,078
Malted milk and malted-milk products.....	24		6,531,051
Mincement.....	54	37,623,859	4,202,417
Potato chips.....	214		6,797,734

See footnotes on p. 20.

## INDUSTRY GROUP 1.—FOOD AND KINDRED PRODUCTS—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>FOOD PREPARATIONS, NOT ELSEWHERE CLASSIFIED—Continued</b>			
Bakers', confectioners', and household supplies, total.....	4 140	<i>Pounds</i>	\$19,467,016
Coconut, desiccated or shredded.....	10	-----	6,807,903
Chili pepper or powder (ground or whole).....	7	7,117,818	1,017,433
Eggs, whole, dehydrated.....	6	2,173,088	1,951,491
Marshmallow crème.....	18	-----	849,806
Pie and cake fillings.....	29	10,059,748	2,171,114
Prepared dessert powders.....	58	-----	3,608,541
Other preparations.....	42	-----	3,063,601
Other food products: Baked beans, bouillon cubes, cakes (bean, fish, rice, and other), chocolate and cocoa (instant), eggs processed and canned, meat pies, peanut-butter sandwiches, sandwich spread, chop sucy, etc.....	204	-----	25,407,476

## ICE CREAM

	(1)	<i>Gallons</i>	
Aggregate.....	-----	270,776,902	\$332,070,800
Ice cream.....	3,972	267,274,485	314,916,795
Ice.....	601	5,163,370	5,971,138
Specialties (cups, sticks, etc., reported in ice-cream equivalent).....	446	7,330,137	11,191,807

## ICE, MANUFACTURED

	(1)	<i>Short tons</i>	
Aggregate.....	-----	445,468,401	\$209,007,933
Ice made as a secondary product in other industries.....	328	991,188	4,585,932
Ice, by kind, for the ice industry only, total.....	4 4,110	44,477,213	204,422,001
Can ice.....	4,107	44,404,248	204,126,615
Plate ice.....	7	72,965	295,386

## MACARONI, SPAGHETTI, VERMICELLI, AND NOODLES

	(1)		
Aggregate.....	-----	-----	\$47,360,843
Macaroni, spaghetti, and vermicelli.....	310	<i>Pounds</i>	-----
Egg noodles and other egg products.....	120	482,862,400	37,424,762
Noodles, plain or water.....	67	55,019,212	8,196,195
Ravioli.....	24	15,313,757	1,250,926
		2,425,230	488,900

## MALT

	(1)		
Aggregate.....	-----	-----	\$23,000,739
Barley malt.....	38	<i>Bushels</i>	-----
Rye and wheat malt and roasted malt.....	8	25,965,500	20,822,600
Sprouts and screenings.....	27	127,664	163,791
		-----	2,074,348

See footnotes on p. 20.

INDUSTRY GROUP 1.—FOOD AND KINDRED PRODUCTS—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>MEAT PACKING, WHOLESALE<sup>1</sup></b>			
Aggregate.....	(1)		\$3,432,869,412
Fresh meat, total.....	1,001		1,780,842,559
		<i>Pounds</i>	
Beef.....	802	4,575,491,960	850,802,873
Veal.....	729	511,162,745	107,196,896
Mutton and lamb.....	497	601,718,832	145,416,001
Pork.....	733	3,571,276,745	603,537,342
Edible organs, tripe, etc.....	582	568,686,957	63,029,655
Other fresh meat.....	28	16,382,573	1,859,792
Cured meat, total.....	662		748,418,116
Beef, pickled and other cured.....	147	71,503,184	21,748,985
Pork, pickled and dry-cured, smoked.....	582	1,295,187,924	302,025,443
Pork, dry-salted, smoked.....	153	101,778,955	20,642,263
Pork, pickled and dry-cured, not smoked.....	280	1,271,006,105	231,241,113
Pork, dry-salted, not smoked.....	250	860,147,850	113,887,890
Cooked hams.....	399	<sup>23</sup> 152,188,917	<sup>23</sup> 57,072,432
Canned meat.....	54	149,582,361	38,114,158
Canned sausage.....	22	19,551,909	4,404,404
Sausage (not canned), meat puddings, headcheese, scrapple, etc. <sup>24</sup> .....	705	928,573,434	201,623,004
Sausage casings, total <sup>25</sup> .....	287		21,547,526
Beef casings.....	171	42,878,150	8,067,081
Sheep and lamb.....	98	25,271,420	5,124,636
Hog.....	202	48,212,414	8,655,800
Lard.....	626	2,041,210,887	248,007,633
Oleo oil and stock.....	51	113,230,636	12,403,313
Stearin (oleo and other).....	38	38,542,006	3,810,386
		<i>Tons</i>	
Fertilizer materials.....	306	134,856	6,230,004
Hides, skins, and pelts (not including sheep and lamb skins or pickled sheep and lamb skins), total.....	652		100,022,894
Cattle hides, cured—			
Number.....	311	7,439,908	62,707,050
Pounds.....		399,682,332	
Cattle hides, uncured—			
Number.....	427	2,401,488	17,205,761
Pounds.....		133,518,512	
Calfskins, cured—			
Number.....	185	2,707,414	7,606,821
Pounds.....		35,638,823	
Calfskins, uncured—			
Number.....	245	1,282,882	2,082,650
Pounds.....		14,934,822	
		<i>Number</i>	
Sheep and lamb pelts, cured.....	122	7,522,670	13,663,500
Sheep and lamb pelts, uncured.....	155	2,935,450	4,714,190
Other hides and skins, cured and uncured—			
Number.....	34	346,382	442,916
Pounds.....		5,861,097	
Sheep and lamb skins:			
Number.....	5	3,838,694	2,554,771
Pounds.....		11,694,126	
Pickled sheep and lamb skins:			
Number.....	13	5,948,459	4,006,907
Pounds.....		13,150,992	
		<i>Pounds</i>	
Wool <sup>27</sup> .....	23	35,006,925	19,874,410
Hair, hog and other.....	81	25,946,634	1,154,232
Miscellaneous products.....			230,546,066

OLEOMARGARINE

Aggregate.....	(1)	<i>Pounds</i>	\$60,415,460
Reported according to material used:			
Composed solely of vegetable oils and fats.....	43	183,668,093	28,741,241
Composed of a mixture of animal and vegetable oils and fats.....	20	78,458,010	15,152,434
Not reported according to materials used (made in meat-packing industry).....	29	108,173,643	16,521,785

See footnotes on p. 20.

## INDUSTRY GROUP 1.—FOOD AND KINDRED PRODUCTS—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>PEANUTS, WALNUTS, AND OTHER NUTS, PROCESSED OR SHELLED</b>			
Aggregate.....	(1)		\$51,739,740
Peanuts, total.....	4 109		32,137,778
		<i>Pounds</i>	
Shelled (raw).....	80	342,713,420	24,496,936
Cleaned and graded (not shelled).....	53	104,786,830	7,640,842
English walnuts, total.....	4 40	56,577,939	9,854,618
Bleached or polished.....	35	52,042,577	8,367,561
Shelled <sup>23</sup> .....	11	4,535,362	1,487,087
Other nuts (pecans, almonds, Brazil nuts, etc.), total.....	4 53	24,394,094	9,747,344
Bleached or polished.....	24	9,224,867	2,090,491
Shelled.....	32	15,170,127	7,656,863

## POULTRY KILLING, DRESSING, AND PACKING, WHOLESALE

Aggregate.....	(1)		<sup>29</sup> \$128,005,467
Poultry killed and dressed, total.....	4 476		122,466,372
Chickens.....	418		94,324,785
Ducks.....	110		1,385,853
Turkeys.....	198		9,908,921
Other poultry.....	61		654,984
Not reported as to quantity or kind.....	46		16,191,829
Poultry, canned, total.....	13		4,124,789
Whole.....	3		332,600
Parts.....	10		3,792,189
Other poultry products.....	4		1,207,019
Rabbits, killed and dressed.....	13		207,287

## RICE CLEANING AND POLISHING

Aggregate.....	(1)		\$48,793,777
Clean rice, total.....	4 60	<i>Pounds</i>	46,087,526
Whole grain grades, total.....	4 59	1,006,259,760	39,560,579
Polished.....	59	985,516,604	38,803,911
Brown.....	12	20,743,156	756,668
Second-head.....	41	73,020,377	2,202,989
Screenings.....	49	118,060,799	3,001,331
Brewers'.....	53	45,730,297	1,322,627
Polish.....	53	34,375,446	513,427
Bran.....	54	143,381,236	1,653,025
Other products.....			539,799

## SAUSAGE, MEAT PUDDINGS, HEADCHEESE, ETC., AND SAUSAGE CASINGS

Aggregate.....	(1)		\$323,095,500
Sausage, meat puddings, headcheese, etc., total.....	4 1,342	<i>Pounds</i>	290,479,466
Fresh sausage, meat pudding, headcheese, etc.....	1,291	1,184,210,226	252,117,241
Dry sausage.....	243	128,829,304	38,362,225
Sausage casings, total.....	4 381	176,198,403	32,616,084
Beef casings.....	233	54,191,886	10,468,686
Sheep casings.....	157	49,893,246	9,307,485
Hog casings.....	273	72,113,271	12,839,863

See footnotes on p. 20.

INDUSTRY GROUP 1.—FOOD AND KINDRED PRODUCTS—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>SHORTENINGS (NOT INCLUDING LARD) AND VEGETABLE COOKING OILS <sup>7</sup></b>			
Aggregate.....	(1)	<i>Pounds</i> 1, 754, 712, 029	\$198, 538, 017
Shortenings (not including lard), total.....	153	<sup>30</sup> 1, 256, 836, 501	147, 651, 407
Made in shortenings (not including lard) and vegetable-cooking-oils industry, total.....	4 38	832, 354, 429	98, 340, 592
From vegetable oils and fats solely, total.....	4 32	658, 471, 337	78, 166, 834
Package goods, 8 pounds and under.....	25	212, 629, 144	27, 699, 945
Other, over 8 pounds.....	30	445, 842, 193	50, 466, 889
From animal and vegetable oils and fats, total.....	4 15	173, 883, 092	20, 173, 758
Package goods, 8 pounds and under.....	12	70, 839, 706	8, 761, 612
Other, over 8 pounds.....	13	103, 043, 386	11, 412, 146
Made as secondary products in the meat-packing industry.....	104	405, 149, 785	46, 938, 020
Made as secondary products in other industries.....	11	19, 332, 287	2, 372, 795
Vegetable cooking oils, total.....	34	497, 875, 518	50, 886, 610
Made in shortenings (not including lard) and vegetable-cooking oils industry.....	25	421, 890, 926	42, 623, 766
Made as secondary products in other industries.....	9	75, 984, 592	8, 262, 844

**BEEF SUGAR <sup>7</sup>**

Aggregate.....	(1)		\$108, 552, 581
Sugar, total.....	4 82	<i>Short tons</i> 1, 036, 055	100, 767, 031
Granulated.....	82	1, 068, 285	100, 249, 231
Unfinished.....	73	17, 770	517, 800
Molasses, total.....	4 52	77, 781	1, 169, 257
Discarded from desugarization process (exclusive of that used for molasses beet pulp).....	35	53, 472	789, 615
Other, sold for purposes other than desugarization.....	23	24, 309	379, 642
Beet pulp, total.....	4 80	1, 460, 597	5, 280, 795
Dried pulp (exclusive of molasses pulp).....	33	87, 530	2, 127, 354
Moist pulp.....	43	<sup>31</sup> 1, 297, 368	1, 124, 038
Molasses pulp.....	17	75, 693	1, 979, 403
Other products.....			<sup>32</sup> 1, 385, 498

**CANE SUGAR <sup>7</sup>**

Aggregate.....	(1)		\$18, 325, 792
Sugar, total.....	4 62	<i>Short tons</i> 179, 830	13, 749, 995
Granulated <sup>33</sup> .....	20	27, 742	2, 639, 143
Clarified.....	21	10, 504	832, 221
Raw.....	44	141, 593	10, 278, 631
Sirup <sup>34</sup> .....	23	<i>Gallons</i> 4, 625, 236	1, 341, 163
Molasses other than blackstrap <sup>34</sup> .....	35	7, 956, 866	1, 369, 973
Blackstrap molasses <sup>34</sup> .....	35	10, 874, 130	1, 088, 150
Bagasse, for sale as such.....	16	<i>Tons</i> 134, 055	684, 055
Other products.....			92, 456

**CANE-SUGAR REFINING <sup>7</sup>**

Aggregate.....	(1)		\$506, 368, 234
Refined sugar, hard <sup>35</sup> .....	21	<i>Short tons</i> 4, 794, 757	473, 346, 370
Refined sugar, soft or brown <sup>35</sup> .....	17	320, 551	29, 057, 634
Refiners' sirup, edible <sup>36</sup> .....	12	<i>Gallons</i> 4, 320, 168	919, 802
Refiners' blackstrap and nonedible sirup <sup>36</sup> .....	19	32, 169, 406	3, 044, 428

See footnotes on p. 20.

## INDUSTRY GROUP 1.—FOOD AND KINDRED PRODUCTS—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>VINEGAR AND CIDER</b>			
Aggregate.....	(1)	-----	\$17,796,479 <sup>2</sup>
Vinegar.....	251	-----	15,872,207
Cider.....	119	-----	1,924,272

<sup>1</sup> The aggregate number of establishments—i. e., the sums of the several items for a given group of products—are not shown because such aggregates would greatly overstate the actual number of establishments reporting the groups of products in question. This condition arises because in practically all cases each establishment is engaged in the manufacture of more than 1 of the individual products or classes of products. The net numbers of establishments reporting the several groups of products are not shown by the census tabulations.

<sup>2</sup> In addition, bread and other bakery products, valued at \$3,407,319, were reported as secondary products by establishments classified in other industries.

<sup>3</sup> Both handmade and machine-made.

<sup>4</sup> Inasmuch as some establishments manufacture more than 1 kind of product, the totals in this column are smaller than the sums of the figures below them.

<sup>5</sup> Includes "condensed milk, unsweetened."

<sup>6</sup> Includes data for a small amount of refined sugar of milk.

<sup>7</sup> The amounts under this heading represent products manufactured during the period covered, whether sold or not.

<sup>8</sup> See also "Kraut, in bulk," under "Pickles, sauces, etc."

<sup>9</sup> See also "Tomato, pulp, in bulk," under "Pickles, sauces, etc."

<sup>10</sup> See also "Olives, bottled and in bulk," under "Pickles, sauces, etc."

<sup>11</sup> See also "Olives, ripe," under "Canned fruits."

<sup>12</sup> See also "Kraut" under "Canned vegetables and canned soups."

<sup>13</sup> See also "Tomato pulp" under "Canned vegetables and canned soups."

<sup>14</sup> Standard case contains forty-eight 5¾-ounce cans for wet pack and forty-eight 5-ounce cans for dry pack.

<sup>15</sup> Includes data for canned pickled herring.

<sup>16</sup> Quantity not shown because some establishments reported in number of packages and some in pounds.

<sup>17</sup> Data incomplete.

<sup>18</sup> Figures include an indeterminate amount of duplication due to the fact that starch is made by certain establishments and sold to other establishments in the industry which use it as a material in further manufacture.

<sup>19</sup> Part of this starch was sold for use as material in the manufacture of other products.

<sup>20</sup> Wheat starch and starch processed or packed from purchased stock. The processed or packed starch has decreased in amount from census to census and in 1929 was relatively unimportant.

<sup>21</sup> Includes 314,074 tons of alfalfa meal, valued at \$3,227,276.

<sup>22</sup> Quantities not reported.

<sup>23</sup> Figures shown in the table are for prepared flour made in the "Flour and other grain-mill products" industry only; in addition, prepared flour is produced to some extent by establishments in other industries, principally the "Cereal preparations" industry. The total production of prepared flour in all industries was 5,473,425 barrels, valued at \$42,370,010.

<sup>24</sup> In addition, establishments engaged primarily in the manufacture of ice cream reported 740,146 tons of ice made and consumed. The data in regard to ice production and consumption by such establishments are, however, incomplete, and therefore the figures here given do not represent the total consumption by ice-cream manufacturers of ice made in their own plants.

<sup>25</sup> In addition, cooked hams produced in other industries were reported to the amount of 13,124,067 pounds, valued at \$4,769,192.

<sup>26</sup> Production of meat-packing establishments only.

<sup>27</sup> The figures refer solely to wool detached from sheepskins in meat-packing establishments. Total value of products of establishments engaged primarily in pulling wool amounted to \$13,643,004.

<sup>28</sup> Weight and value of nuts prior to shelling, as reported by growers' associations.

<sup>29</sup> This table includes some duplication due to the use of the products (dressed poultry) of certain establishments as materials by establishments engaged in the preparation and packing of potted chicken, etc.

<sup>30</sup> Some of the establishments in the shortenings and vegetable-cooking-oils industry reported for their fiscal years which conform most nearly to the calendar year 1929. This is permissible under the census law, and for this reason the total production of shortenings given in this table is not identical with the aggregate of the totals for the 4 quarters of the year 1929 (1,220,101,530 pounds) as shown by the reports of the quarterly census of "Animal and vegetable fats and oils."

<sup>31</sup> Includes data for a small quantity of pressed beet pulp, the tonnage and value of which can not be shown without disclosing the production of individual establishments.

<sup>32</sup> Includes 115,660 tons of molasses valued at \$1,369,675 sold or transferred to other factories for desugarization.

<sup>33</sup> See footnote 35, report on "Cane-sugar refining."

<sup>34</sup> For production of refiners' sirup and blackstrap, see "Cane-sugar refining."

<sup>35</sup> For production in the cane-sugar industry, see report for that industry. The combined production, in the cane-sugar refining and cane-sugar industries, of sugar intended for consumption, without further refining, amounted to 153,554 tons, valued at \$605,875,368.

<sup>36</sup> For production of sirup and blackstrap molasses in the cane-sugar industry, see report for that industry.

## INDUSTRY GROUP 2.—TEXTILES AND THEIR PRODUCTS

[This table presents statistics for all commodities covered by the Census of Manufactures classification, except those for which the figures must be withheld from publication in order to avoid disclosing, exactly or approximately, the data reported by individual establishments. (See sec. 7 of General Explanations)]

PRODUCT	Number of establishments	Quantity	Value
<b>ARTIFICIAL LEATHER <sup>1</sup></b>			
Aggregate.....	(2)		\$31,345,660
		<i>Square yards</i>	
Pyroxylin-coated, total.....	3 17	65,029,435	30,440,653
Light goods.....	13	28,535,004	8,354,213
Heavy goods.....	16	36,494,431	22,086,440
Other than pyroxylin-coated.....	(4)	862,164	891,020
Kind not specified.....	(4)		13,987

### AWNINGS, TENTS, SAILS, AND CANVAS COVERS

[Principal products: Window, store, and veranda awnings; tents; sails; tarpaulins; canvas covers for trucks furniture, etc.]

(Commodities not reported in detail).....	1,002		\$49,237,576
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### BAGS, OTHER THAN PAPER, NOT MADE IN TEXTILE MILLS

[Principal products: Jute and canvas bags for mail, coal, cement, grain, flour, meal, money, etc.; bags for use by carpenters, newsboys, and fruit packers; individual tea-service bags, etc.]

(Commodities not reported in detail).....	202		\$170,175,893
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### BELTING, OTHER THAN LEATHER AND RUBBER, NOT MADE IN TEXTILE MILLS

[Principal products: Cotton and canvas belting, both sewed and endless; balata belting; weatherproof belting, etc.]

(Commodities not reported in detail).....	9		\$2,788,627
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### CARPETS AND RUGS, RAG

[Principal products: Rag and fluff carpets and rugs made from materials obtained from old carpets and rugs, and to some extent from cotton yarns, cut rags, and mill ends]

(Commodities not reported in detail).....	94		\$5,510,768
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### CARPETS AND RUGS, WOOL, OTHER THAN RAG <sup>1</sup>

Aggregate.....	(2)		\$174,286,275
		<i>Square yards</i>	
Carpets, total.....	3 67	27,335,080	61,787,726
Axminster.....	13	6,879,749	14,766,654
Wilton.....	17	4,209,576	16,763,837
Brussels.....	4	119,613	644,791
Tapestry velvet.....	19	13,550,709	28,193,964
Tapestry Brussels.....	5	1,280,442	1,335,489
Ingrain.....	5	253,289	164,686
Other.....	14	1,085,702	1,913,305

See footnotes on p. 45.

## INDUSTRY GROUP 2.—TEXTILES AND THEIR PRODUCTS—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>CARPETS AND RUGS, WOOL, OTHER THAN RAG—Continued</b>			
Rugs made of sewed strips, total.....	21	<i>Square yards</i> 3,719,990	\$14,410,040
Wilton.....	15	2,030,388	10,778,432
Other.....	10	1,689,602	3,631,608
Rugs woven whole, total.....	49	42,305,751	98,085,509
Axminster.....	16	20,710,175	44,810,794
Wilton.....	17	5,022,841	25,946,009
Tapestry velvet.....	8	7,545,532	14,066,139
Tapestry Brussels.....	5	3,453,194	3,526,290
Chenille.....	10	540,840	3,393,860
Wool and paper fiber (mixed).....	6	989,653	829,803
All paper, warp and filling.....	5	2,922,284	1,708,949
Other.....	19	1,109,732	3,806,665

CLOTHING (EXCEPT WORK CLOTHING), MEN'S, YOUTHS', AND BOYS', NOT ELSEWHERE CLASSIFIED<sup>1</sup>

Aggregate.....	(2)		\$841,101,660
Men's and youths' clothing:		<i>Number</i>	
Suits, total.....	1,473	23,518,216	449,261,152
2-piece suits.....	175	1,749,633	24,028,259
2-piece suits with extra trousers.....	83	855,628	13,141,075
2-piece suits with extra knickers.....	13	71,507	1,118,449
3-piece suits.....	831	12,642,142	255,674,333
3-piece suits with extra trousers.....	510	7,528,600	147,196,543
3-piece suits with extra knickers.....	92	670,706	8,092,498
Separate trousers.....	492	24,337,311	67,451,730
Separate coats.....	75	1,253,267	13,035,179
Separate vests.....	53	1,005,452	3,306,509
Overcoats and topcoats.....	818	7,321,712	131,550,076
Boys' suits, total.....	276	5,565,843	34,833,634
1-pants suits (not knickers).....	44	1,533,850	5,925,184
1-pants suits (knickers).....	21	233,968	1,290,747
2-pants suits (not knickers).....	80	1,200,800	8,684,193
2-pants suits (knickers).....	88	1,257,603	10,064,521
2-pants suits (1 long pants, 1 knickers).....	55	1,339,622	8,868,989
Boys' separate pants and knickers.....	167	12,847,277	16,028,250
Boys' overcoats and reefers.....	140	1,946,619	12,648,356
Sport clothing, other than leather, total.....	173	5,741,400	13,850,009
Hunting coats.....	22	255,055	1,043,035
Knickers.....	71	1,745,235	3,749,772
Riding breeches.....	55	1,951,916	4,206,381
Other.....	79	1,789,284	4,880,321
Leather clothing, including leather sport clothing, total.....	90	2,480,146	18,586,096
Hunting coats.....	5	36,375	283,750
Other leather coats.....	37	495,719	3,765,662
Windbreakers and lumberjacks.....	46	819,966	6,104,360
Vests.....	12	507,984	3,828,713
Other leather clothing.....	33	620,102	4,603,611
Windbreakers and lumberjacks, other than leather.....	52	1,512,299	5,047,198
Children's play suits, total.....	61	2,257,150	15,861,614
Denim.....	27	836,612	6,512,950
Other than denim.....	45	1,420,538	9,348,664
Men's, youths', and boys' waterproof outer garments, total.....	107	5,433,271	17,642,986
Rubberized.....	90	3,519,357	12,109,811
Oiled.....	17	1,736,819	4,595,637
Other proofing.....	14	177,095	937,538
Costumes (theatrical, masquerade, etc.).....	27	392,668	1,612,757
Uniforms (other than white duck), total.....	104	1,559,680	17,580,058
Military, naval, cadet, etc.....	40	422,742	8,213,889
Hospital, professional, etc.....	15	490,882	979,080
Other, for policemen, firemen, conductors, motormen, etc.....	73	646,056	8,387,089
Uniforms (white duck), total.....	100	6,170,453	9,831,005
Naval, cadet, etc.....	17	195,729	1,360,906
Hospital, professional, etc.....	27	867,162	1,150,197
Other.....	64	5,107,562	7,119,902
Other men's, youths', and boys' clothing.....			13,155,051

INDUSTRY GROUP 2.—TEXTILES AND THEIR PRODUCTS—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>CLOTHING, WOMEN'S, NOT ELSEWHERE CLASSIFIED <sup>1</sup></b>			
Aggregate.....	(?)		\$1, 615, 392, 122
Outer wear for women, misses, and juniors, total.....	3 4, 033		1, 321, 479, 198
Dresses, 1-piece—		<i>Number</i>	
Made to retail for—			
Under \$1.....	108	22, 865, 972	14, 238, 961
\$1 to \$1.99.....	254	35, 785, 413	35, 903, 510
\$2 to \$2.99.....	272	15, 907, 909	26, 501, 877
\$3 to \$4.99.....	230	14, 190, 180	44, 017, 184
\$5 to \$9.99.....	497	34, 534, 628	187, 131, 190
\$10 to \$24.99.....	812	31, 212, 384	323, 167, 867
\$25 and over.....	511	8, 340, 375	192, 311, 325
Ensembles, total.....	3 131	1, 164, 077	13, 850, 433
All wool.....	82	537, 699	8, 150, 942
All cotton.....	31	370, 107	908, 941
Other fabrics and combinations.....	47	256, 271	4, 790, 550
Suits, total.....	3 289	1, 671, 682	34, 885, 786
All wool.....	258	1, 349, 463	28, 825, 555
Other fabrics.....	41	322, 219	6, 060, 221
Separate coats, total.....	3 1, 072	16, 851, 192	332, 804, 198
All wool.....	1, 013	15, 056, 032	306, 021, 974
Other fabrics.....	141	1, 795, 160	26, 782, 224
Separate skirts, total.....	3 74	1, 233, 306	3, 813, 339
All wool.....	54	773, 730	2, 700, 693
Other fabrics.....	36	459, 576	1, 112, 646
Blouses and shirt waists, total.....	3 115	5, 093, 838	10, 672, 474
All cotton.....	57	3, 613, 775	4, 265, 150
All silk.....	62	1, 401, 713	6, 285, 013
Other fabrics.....	6	78, 350	122, 311
Uniforms, total.....	3 114	3, 809, 048	8, 619, 821
All cotton.....	91	3, 613, 184	7, 623, 564
Other fabrics.....	36	195, 864	996, 257
Smocks.....	114	<i>Dozen</i> 551, 856	6, 019, 360
Hoovers.....	63	253, 529	2, 397, 963
Aprons.....	186	3, 526, 846	17, 268, 257
Kimonos and bathrobes, total.....	3 145	<i>Number</i> 5, 400, 204	19, 127, 465
All cotton.....	67	2, 106, 653	4, 678, 518
Other fabrics.....	100	3, 293, 551	14, 448, 947
Daytime pajamas.....	48	771, 686	3, 729, 130
Raincoats, total.....	3 80	3, 601, 776	12, 303, 303
Rubberized.....	72	3, 276, 795	11, 503, 124
Oiled.....	8	240, 285	562, 837
Other proofing.....	4	84, 696	237, 342
Scarfs (except knitted).....	39	<i>Dozen</i> 972, 073	9, 212, 344
Neckwear.....	94	1, 579, 319	13, 106, 164
Other outer wear for women, misses, and juniors.....	191		10, 397, 747
Outer wear for children, total.....	3 517		105, 276, 179
Dresses, total.....	3 254	<i>Number</i> 42, 512, 555	53, 153, 975
All cotton.....	206	36, 331, 473	34, 853, 432
All rayon.....	26	1, 153, 432	1, 630, 612
All silk.....	91	3, 422, 348	11, 932, 911
Other fabrics.....	61	1, 605, 252	4, 737, 020
Coats, total.....	3 180	6, 188, 869	34, 548, 403
All wool.....	163	4, 964, 051	29, 697, 042
Other fabrics.....	53	1, 224, 818	4, 851, 361
Suits, total.....	3 94	11, 348, 967	11, 945, 865
All cotton.....	76	9, 155, 447	8, 689, 478
All wool.....	24	1, 356, 194	2, 005, 139
Other fabrics.....	15	837, 326	1, 251, 248
Other outer wear for children.....	71		5, 627, 936

See footnotes on p. 45.

## INDUSTRY GROUP 2.—TEXTILES AND THEIR PRODUCTS—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>CLOTHING, WOMEN'S, NOT ELSEWHERE CLASSIFIED—Continued</b>			
Underwear and nightwear for women, misses, and juniors:			
Underwear (made from purchased fabrics), total.....	3 037	<i>Dozen pieces</i> 15, 502, 194	\$140, 218, 074
Woven fabrics, total.....	3 539	10, 656, 008	110, 331, 826
All silk.....	321	2, 490, 400	65, 633, 839
All rayon.....	156	3, 269, 387	27, 404, 026
Rayon with cotton.....	72	1, 445, 594	8, 727, 800
All cotton.....	175	3, 148, 020	16, 150, 776
Other.....	35	268, 637	2, 454, 485
Knitted fabrics, total.....	3 113	4, 840, 186	35, 886, 248
All silk.....	31	477, 058	6, 869, 555
All rayon.....	94	3, 556, 962	23, 763, 484
Rayon with cotton.....	10	172, 727	1, 280, 202
All cotton.....	18	518, 167	2, 919, 023
Other.....	11	141, 462	1, 047, 984
Nightgowns.....	105	<i>Number</i> 9, 400, 489	8, 003, 775
Sleeping pajamas.....	94	5, 172, 404	6, 022, 122
Underwear and nightwear for children:			
Underwear (made from purchased fabrics), total.....	3 75	<i>Dozen pieces</i> 2, 486, 726	8, 718, 749
Woven fabrics, total.....	4 61	2, 080, 760	6, 897, 860
All cotton.....	54	1, 813, 741	5, 922, 289
Other.....	22	267, 019	1, 075, 571
Knitted fabrics, total.....	3 20	405, 968	1, 720, 889
All cotton.....	3	214, 460	339, 511
Other.....	19	191, 508	1, 381, 378
Nightgowns.....	23	<i>Number</i> 946, 211	460, 801
Pajamas.....	31	1, 803, 329	1, 200, 772
Infants' clothing:			
Infants' outer wear, total.....	3 106	12, 587, 259	12, 978, 498
All silk.....	44	1, 308, 452	2, 415, 414
All rayon.....	13	269, 113	274, 440
All cotton.....	69	8, 576, 395	5, 741, 278
Other fabrics.....	62	2, 433, 299	4, 547, 357
Infants' underwear and nightwear, total.....	3 31	<i>Dozen pieces</i> 953, 977	3, 190, 604
All cotton.....	27	679, 511	2, 158, 590
Other fabrics.....	11	274, 466	1, 041, 014
Other women's, misses', and children's clothing.....	4		1, 764, 350
<b>CLOTHING, WORK (EXCEPT SHIRTS), MEN'S</b>			
Aggregate.....	(*)		\$123, 409, 609
Denim, total.....		<i>Dozen</i>	
Overalls.....	3 413	6, 539, 149	79, 484, 579
Overall jackets.....	321	4, 738, 781	55, 332, 902
1-piece overall suits.....	253	669, 750	8, 776, 079
Work pants.....	169	323, 468	5, 153, 396
Other.....	130	611, 713	8, 337, 886
.....	65	165, 437	1, 884, 316
Other than denim, total.....	3 268	2, 729, 140	43, 925, 030
Overalls.....	115	450, 113	6, 121, 186
Overall jackets.....	73	80, 899	1, 040, 689
1-piece overall suits.....	97	156, 581	3, 265, 508
Work pants.....	162	1, 483, 712	20, 874, 008
Coats, sheep-lined.....	23	168, 016	9, 123, 830
Coats, blanket-lined.....	24	45, 059	1, 044, 272
Other.....	68	344, 760	2, 454, 537

See footnotes on p. 45.

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INDUSTRY GROUP 2.—TEXTILES AND THEIR PRODUCTS—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>COLLARS, MEN'S 1</b>			
Aggregate.....	(?)	Dozen 5,698,370	\$8,882,979
Soft (from textile fabrics).....	63	2,914,938	5,676,679
Starched (from textile fabrics).....	49	2,400,842	3,062,122
Other.....	5	382,590	154,178
<b>CORDAGE AND TWINE, JUTE GOODS, AND LINEN GOODS 1</b>			
Aggregate.....	(?)		\$135,989,431
Rope, cable, and cordage, total.....	855	<i>Pounds</i> 227,686,988	42,671,292
Manila hemp, total.....	25	114,475,807	22,170,547
Transmission rope.....	18	4,955,266	1,041,213
Drilling cables.....	16	12,536,580	2,851,866
Marine cordage.....	17	45,999,515	8,778,554
Other commercial and bolt ropes.....	20	26,819,075	5,064,256
Hardware rope, all or chiefly manila.....	18	6,211,615	872,810
Unclassified as to kind.....		17,973,756	3,561,848
Henequen.....	18	16,120,283	2,446,616
Sisal.....	21	27,381,207	3,972,426
Jute.....	3	35,826,871	4,859,652
Cotton.....	48	28,095,763	8,298,542
Other.....		5,787,057	923,509
Twine, total.....	75	355,634,495	62,589,702
Binder twine, total.....	12	178,605,138	18,394,946
Manila, all or chiefly.....	6	6,570,550	609,070
Sisal.....	5	26,762,969	3,292,611
Henequen.....	8	145,271,619	14,493,265
Twine, other than binder, total.....	73	177,079,357	44,194,756
Flax.....	3	934,907	764,807
Hemp.....	10	4,919,177	1,662,979
Jute.....	13	45,235,028	6,329,231
Cotton.....	66	85,938,140	28,991,411
Hard fiber.....	8	13,206,786	1,841,867
Other.....	44	26,795,319	4,604,461
Fish line, total.....	14		2,892,531
Silk.....	9		1,285,177
Linen.....	7		479,662
Cotton.....	10		1,035,659
Other.....	3		92,033
Yarns for sale, total.....	16	97,994,846	15,467,208
Jute.....	10	96,538,846	14,903,810
Other.....	7	1,396,000	563,398
Linen thread.....	8	3,103,056	4,510,278
Woven goods:			
Linen and part-linen.....	8		3,364,968
Jute bagging for baling cotton.....	8	<i>Square yards</i> 27,862,993	3,129,003
Webbing (not over 12 inches in width).....	3	<i>Linear yards</i> 43,736,731	1,122,021
Other.....	6		242,428
<b>CORSETS AND ALLIED GARMENTS</b>			
Aggregate.....	(?)		\$74,202,372
Brassières and bandeaux-brassières.....	149	<i>Number</i> 24,680,927	18,447,447
Corsets, girdles, and garter belts.....	176	18,057,283	32,843,136
Combinations or 1-piece garments.....	101	10,627,032	21,647,768
Corset accessories (clasps, stays, etc.).....	17		1,264,021

## INDUSTRY GROUP 2.—TEXTILES AND THEIR PRODUCTS—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>COTTON GOODS 1</b>			
Aggregate .....	(?)		\$1, 514, 297, 826
Woven goods (over 12 inches in width), total:			
Pounds.....	820	{ 2, 363, 404, 826 8, 541, 545, 733 }	1, 138, 846, 685
Square yards.....			
Tire fabrics, total:			
Pounds.....	54	{ 250, 503, 576 302, 864, 499 }	111, 720, 812
Square yards.....			
Cord fabric for tires—			
Pounds.....	38	{ 220, 360, 699 261, 026, 851 }	99, 377, 409
Square yards.....			
Tire duck—			
Pounds.....	19	{ 17, 374, 824 22, 276, 844 }	6, 845, 608
Square yards.....			
Tire fabrics other than cord or duck—			
Pounds.....	14	{ 12, 768, 053 19, 560, 804 }	5, 497, 795
Square yards.....			
Ounce duck, except tire, total—			
Pounds.....	76	{ 137, 653, 484 188, 068, 220 }	48, 705, 834
Square yards.....			
Army duck, including awning, shoe, etc.—plied warp and plied filling—			
Pounds.....	23	{ 23, 313, 462 37, 692, 210 }	9, 896, 347
Square yards.....			
Hose and belting duck—plied warp and plied filling—			
Pounds.....	14	{ 36, 905, 616 24, 089, 631 }	12, 764, 571
Square yards.....			
Filler cloth—			
Pounds.....	10	{ 3, 390, 773 3, 344, 844 }	1, 567, 014
Square yards.....			
Flat-laid duck—single warp, single and plied filling—			
Pounds.....	35	{ 65, 732, 881 108, 616, 483 }	21, 878, 131
Square yards.....			
Other ounce duck, except tire—			
Pounds.....	12	{ 8, 310, 752 14, 315, 052 }	2, 599, 771
Square yards.....			
Numbered duck, except tire-plied warp and plied filling, total—			
Pounds.....	27	{ 43, 667, 312 42, 085, 750 }	16, 386, 816
Square yards.....			
Sail duck—			
Pounds.....	12	{ 3, 621, 515 2, 566, 694 }	1, 309, 013
Square yards.....			
Wide duck—			
Pounds.....	17	{ 24, 456, 697 22, 212, 706 }	8, 917, 604
Square yards.....			
Naught duck, including hydraulic and "biscuit"—			
Pounds.....	9	{ 2, 374, 629 1, 127, 512 }	900, 459
Square yards.....			
Other numbered duck, except tire—			
Pounds.....	16	{ 13, 214, 471 16, 178, 838 }	5, 259, 740
Square yards.....			
Osnaburgs—			
Pounds.....	68	{ 59, 144, 030 139, 526, 817 }	17, 301, 669
Square yards.....			
Sheetings, total—			
Pounds.....	185	{ 306, 021, 293 1, 693, 167, 162 }	146, 181, 212
Square yards.....			
Sheetings, 40 inches and narrower—			
Pounds.....	141	{ 271, 347, 297 1, 175, 307, 528 }	92, 204, 309
Square yards.....			
Sheetings, wider than 40 inches—			
Pounds.....	82	{ 124, 673, 996 517, 859, 634 }	53, 916, 903
Square yards.....			

See footnotes on p. 45.

INDUSTRY GROUP 2.—TEXTILES AND THEIR PRODUCTS—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>COTTON GOODS—Continued</b>			
Woven goods (over 12 inches in width), total—Continued.			
Drills, total—			
Pounds.....	81	118,843,173 324,041,245	\$39,700,916
Square yards.....			
Drills, 40 inches and narrower—			
Pounds.....	70	89,359,572 237,495,159	29,205,525
Square yards.....			
Drills, wider than 40 inches—			
Pounds.....	24	29,483,601 86,546,106	10,495,391
Square yards.....			
Denims, total—			
Pounds.....	36	141,853,387 249,891,122	49,256,461
Square yards.....			
Standard denim—white-back and double-and-twist—			
Pounds.....	29	122,519,165 209,605,700	41,727,408
Square yards.....			
Pin checks, express stripes, and all other—			
Pounds.....	20	19,334,222 40,285,422	7,529,053
Square yards.....			
Tickings—			
Pounds.....	24	19,931,428 42,410,547	9,280,484
Square yards.....			
Blankets, total—			
Pounds.....	14	43,650,171 94,060,907	25,391,902
Square yards.....			
Blankets, cotton, except crib, total—			
Pounds.....	11	24,427,595 59,158,402	13,185,164
Square yards.....			
Pair length, total—			
Pounds.....	10	15,729,058 44,733,360	7,725,538
Square yards.....			
60 inches or less in width—			
Pounds.....	4	1,679,701 4,712,548	737,274
Square yards.....			
Over 60 inches in width—			
Pounds.....	6	14,049,357 40,020,812	6,988,264
Square yards.....			
Single length—			
Pounds.....	8	8,698,537 14,425,042	5,459,626
Square yards.....			
Crib blankets, all cotton—			
Pounds.....	8	4,161,792 6,907,812	3,214,905
Square yards.....			
Blankets (partly of wool)—			
Pounds.....	9	15,060,784 27,994,693	8,991,833
Square yards.....			
Napped fabrics, total—			
Pounds.....	55	108,879,302 323,140,452	48,329,469
Square yards.....			
Blanketings (sold as piece goods)—			
Pounds.....	7	5,233,075 7,880,957	3,854,354
Square yards.....			
Canton flannel—			
Pounds.....	18	24,738,318 45,427,598	8,744,388
Square yards.....			
Cotton flannel (flannelettes, domets, outings, and similar fabrics)—			
Pounds.....	32	64,102,926 243,010,201	29,408,816
Square yards.....			
Moleskin—			
Pounds.....	12	6,445,877 10,566,102	2,874,960
Square yards.....			
Other—			
Pounds.....	14	8,359,103 16,255,594	3,446,951
Square yards.....			
Cottonades and cotton worsted—			
Pounds.....	19	18,911,098 34,837,645	8,357,448
Square yards.....			
Towels, towelings, and wash cloths, total—			
Pounds.....	63	70,973,774 160,694,153	33,037,277
Square yards.....			
Towels and towelings, total—			
Pounds.....	56	66,233,280 157,621,025	30,168,738
Square yards.....			

See footnotes on p. 45.

## INDUSTRY GROUP 2.—TEXTILES AND THEIR PRODUCTS—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>COTTON GOODS—Continued</b>			
Woven goods (over 12 inches in width), total—Continued.			
Towels, towelings, and wash cloths, total—Continued.			
Towels and towelings, total—Continued.			
Plain woven—			
Pounds.....	12	{ 6,774,955 18,508,591 }	\$3,114,022
Square yards.....			
Turkish and terry woven—			
Pounds.....	33	{ 38,158,202 82,414,616 }	17,867,786
Square yards.....			
Huck woven—			
Pounds.....	14	{ 13,487,978 37,417,114 }	5,363,233
Square yards.....			
Damask or Jacquard and other—			
Pounds.....	18	{ 7,812,145 19,280,704 }	3,823,697
Square yards.....			
Wash cloths—			
Pounds.....	30	{ 4,740,494 12,073,128 }	2,868,539
Square yards.....			
Bath mats—			
Pounds.....	21	{ 2,085,588 1,180,655 }	1,532,026
Square yards.....			
Terry woven fabrics, except towels, towelings, wash cloths, and bath mats—			
Pounds.....	9	{ 678,580 1,505,928 }	461,044
Square yards.....			
Bedspreads and quilts, total—			
Pounds.....	42	{ 17,758,093 52,901,717 }	10,395,884
Square yards.....			
Double-woven fabric (marseilles, satin, etc.), total—			
Pounds.....	18	{ 4,150,625 10,682,547 }	3,541,430
Square yards.....			
All cotton—			
Pounds.....	13	{ 2,271,099 5,704,359 }	1,404,232
Square yards.....			
All-rayon and part rayon—			
Pounds.....	11	{ 1,879,526 4,978,188 }	2,047,198
Square yards.....			
Single-woven fabrics (crochet, dimity, ripplette, etc.), total—			
Pounds.....	36	{ 13,607,468 42,219,170 }	12,854,454
Square yards.....			
All-cotton—			
Pounds.....	21	{ 7,538,423 21,477,465 }	4,919,907
Square yards.....			
All-rayon and part rayon—			
Pounds.....	25	{ 6,060,045 20,741,705 }	7,934,547
Square yards.....			
Cotton bags, made from fabric woven by same establishment—			
Pounds.....	12	{ 7,650,518 10,485,045 }	2,031,568
Square yards.....			
Pillow tubing—			
Pounds.....	19	{ 7,059,588 21,264,460 }	3,989,009
Square yards.....			
Tobacco, cheese, butter, bunting, and bandage cloths—			
Pounds.....	31	{ 41,772,410 617,410,845 }	18,099,850
Square yards.....			
Print cloth, total—			
Pounds.....	118	{ 301,479,145 1,703,025,248 }	121,423,805
Square yards.....			
Widths narrower than 36 inches—			
Pounds.....	35	{ 50,110,347 306,071,308 }	19,277,600
Square yards.....			
Widths 36 inches and wider—			
Pounds.....	103	{ 251,368,798 1,396,953,940 }	102,145,705
Square yards.....			
Lawns, nainsooks, cambrics, and similar muslins, total—			
Pounds.....	62	{ 31,144,397 226,553,738 }	25,418,595
Square yards.....			
Average single yarn count—			
40s and under—			
Pounds.....	11	{ 2,404,126 10,626,982 }	1,100,298
Square yards.....			
41s and over—			
Pounds.....	53	{ 28,740,271 216,929,756 }	24,318,297
Square yards.....			

See footnotes on p. 45.

INDUSTRY GROUP 2.—TEXTILES AND THEIR PRODUCTS—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>COTTON GOODS—Continued</b>			
Woven goods (over 12 inches in width), total—Continued.			
Reps, poplins, and broadcloths, total—			
Pounds.....	91	{ 70, 678, 442 }	\$40, 554, 626
Square yards.....			
Average single yarn count—	60	{ 40, 342, 412 }	19, 603, 528
40s and under—			
Pounds.....	49	{ 30, 336, 030 }	20, 951, 098
Square yards.....			
41s and over—	26	{ 14, 833, 563 }	9, 608, 333
Pounds.....			
Square yards.....	23	{ 6, 071, 282 }	3, 477, 021
41s and over—			
Pounds.....	38	{ 20, 904, 845 }	13, 085, 354
Square yards.....			
Average single yarn count—	20	{ 14, 833, 563 }	9, 608, 333
40s and under—			
Pounds.....	23	{ 33, 730, 490 }	3, 477, 021
Square yards.....			
41s and over—	38	{ 13, 370, 629 }	10, 614, 380
Pounds.....			
Square yards.....	20	{ 4, 538, 344 }	2, 792, 319
41s and over—			
Pounds.....	38	{ 13, 370, 629 }	10, 614, 380
Square yards.....			
Pajama checks, dimities, and similar fabrics, total—			
Pounds.....	38	{ 20, 904, 845 }	13, 085, 354
Square yards.....			
Average single yarn count—	20	{ 14, 833, 563 }	9, 608, 333
40s and under—			
Pounds.....	23	{ 6, 071, 282 }	3, 477, 021
Square yards.....			
41s and over—	38	{ 13, 370, 629 }	10, 614, 380
Pounds.....			
Square yards.....	20	{ 4, 538, 344 }	2, 792, 319
41s and over—			
Voiles, total—			
Pounds.....	50	{ 17, 908, 973 }	13, 406, 699
Square yards.....			
Average single yarn count—	20	{ 4, 538, 344 }	2, 792, 319
40s and under—			
Pounds.....	38	{ 13, 370, 629 }	10, 614, 380
Square yards.....			
41s and over—	20	{ 4, 538, 344 }	2, 792, 319
Pounds.....			
Square yards.....	38	{ 13, 370, 629 }	10, 614, 380
41s and over—			
Crepes, total—			
Pounds.....	14	{ 5, 611, 489 }	6, 045, 909
Square yards.....			
Average single yarn count—	8	{ 1, 457, 132 }	831, 425
40s and under—			
Pounds.....	7	{ 4, 154, 357 }	5, 214, 484
Square yards.....			
41s and over—	7	{ 29, 375, 777 }	5, 214, 484
Pounds.....			
Square yards.....	10	{ 3, 513, 655 }	2, 356, 362
41s and over—			
Mosquito netting and tarlatan—			
Pounds.....	10	{ 3, 513, 655 }	2, 356, 362
Square yards.....			
Twill and sateens, total—			
Pounds.....	93	{ 82, 492, 337 }	37, 441, 206
Square yards.....			
Average single yarn count—	71	{ 69, 467, 005 }	28, 384, 057
40s and under—			
Pounds.....	37	{ 13, 025, 332 }	9, 057, 149
Square yards.....			
41s and over—	37	{ 58, 431, 499 }	9, 057, 149
Pounds.....			
Square yards.....	41	{ 30, 317, 156 }	17, 717, 408
41s and over—			
Ginghams, total—			
Pounds.....	41	{ 30, 317, 156 }	17, 717, 408
Square yards.....			
Average single yarn count—	36	{ 29, 993, 503 }	17, 247, 207
40s and under—			
Pounds.....	6	{ 323, 653 }	470, 201
Square yards.....			
41s and over—	6	{ 2, 113, 451 }	470, 201
Pounds.....			
Square yards.....	14	{ 12, 378, 545 }	8, 382, 821
41s and over—			
Cotton table damask—			
Pounds.....	14	{ 12, 378, 545 }	8, 382, 821
Square yards.....			
Cotton tapestries—			
Pounds.....	41	{ 6, 639, 928 }	12, 995, 414
Square yards.....			
Square yards.....	41	{ 9, 810, 361 }	12, 995, 414
41s and over—			

See footnotes on p. 45.

## INDUSTRY GROUP 2.—TEXTILES AND THEIR PRODUCTS—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>COTTON GOODS—Continued</b>			
Woven goods (over 12 inches in width), total—Continued.			
Plushes, velvets, and velveteens, total—			
Pounds.....	47	{ 41,777,351 59,393,597 }	\$41,760,522.
Square yards.....			
Plushes, total—			
Pounds.....	40	{ 34,054,259 40,473,750 }	35,981,435
Square yards.....			
All cotton—			
Pounds.....	40	{ 27,927,018 33,190,317 }	27,762,701
Square yards.....			
Other—			
Pounds.....	18	{ 6,127,241 7,283,433 }	8,218,734.
Square yards.....			
Velvets—			
Pounds.....	6	{ 4,300,907 10,694,489 }	2,006,551.
Square yards.....			
Velveteens—			
Pounds.....	7	{ 3,422,185 8,225,358 }	3,772,536.
Square yards.....			
Corduroys—			
Pounds.....	13	{ 15,501,482 27,134,419 }	9,500,553.
Square yards.....			
Draperies (except velvets and plushes), total—			
Pounds.....	90	{ 41,184,860 226,671,163 }	39,043,368.
Square yards.....			
All cotton, total—			
Pounds.....	66	{ 26,955,484 171,117,581 }	22,199,496
Square yards.....			
Average single yarn count—			
40s and under—			
Pounds.....	54	{ 20,984,037 119,994,791 }	16,107,889.
Square yards.....			
41s and over—			
Pounds.....	24	{ 5,971,447 51,122,790 }	6,091,607.
Square yards.....			
In chief value of cotton, containing rayon, total—			
Pounds.....	46	{ 8,430,218 31,261,580 }	10,855,382.
Square yards.....			
Average single yarn count—			
40s and under—			
Pounds.....	34	{ 7,334,137 27,393,065 }	8,534,717.
Square yards.....			
41s and over—			
Pounds.....	14	{ 1,096,081 3,868,515 }	2,320,665.
Square yards.....			
In chief value of rayon—			
Pounds.....	18	{ 5,799,158 24,292,002 }	5,988,490.
Square yards.....			
Shirtings, made entirely of cotton, total—			
Pounds.....	94	{ 66,565,859 265,830,195 }	37,339,976
Square yards.....			
Average single yarn count—			
40s and under—			
Pounds.....	72	{ 56,122,444 219,094,649 }	29,357,612.
Square yards.....			
41s and over—			
Pounds.....	33	{ 10,443,415 46,735,546 }	7,982,364.
Square yards.....			
Shirtings in chief value of cotton, containing rayon, total—			
Pounds.....	40	{ 11,707,718 49,837,594 }	8,116,818.
Square yards.....			
Average single yarn count—			
40s and under—			
Pounds.....	32	{ 10,146,437 42,258,500 }	6,269,242.
Square yards.....			
41s and over—			
Pounds.....	11	{ 1,561,281 7,579,094 }	1,847,576.
Square yards.....			

See footnotes on p. 45.

INDUSTRY GROUP 2.—TEXTILES AND THEIR PRODUCTS—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>COTTON GOODS—Continued</b>			
<b>Woven goods (over 12 inches in width), total—Continued.</b>			
Shirtings, in chief value of cotton, containing silk—			
Pounds.....	7	213, 259	\$314, 447
Square yards.....		1, 377, 803	
Fabrics (other than shirtings and draperies) in chief value of cotton, containing rayon, total—			
Pounds.....	361	21, 963, 487	28, 984, 042
Square yards.....		111, 979, 184	
Average single yarn count—			
40s and under—			
Pounds.....	46	16, 062, 133	19, 789, 604
Square yards.....		74, 416, 488	
41s and over—			
Pounds.....	25	5, 901, 354	9, 194, 438
Square yards.....		37, 562, 696	
Fabrics (other than shirtings and draperies), in chief value of cotton, containing silk—			
Pounds.....	30	5, 096, 458	7, 564, 793
Square yards.....		39, 581, 269	
Fabrics (except draperies), in chief value of rayon—			
Pounds.....	39	14, 843, 679	24, 160, 789
Square yards.....		85, 664, 430	
Rugs (except bath mats), cotton, total—			
Pounds.....	14	2, 963, 715	2, 465, 006
Square yards.....		2, 850, 866	
Woven—			
Pounds.....	11	2, 435, 134	2, 233, 432
Square yards.....		2, 492, 066	
Braided—			
Pounds.....	6	523, 581	231, 634
Square yards.....		358, 800	
Other woven fabrics (over 12 inches in width), total—			
Pounds.....	388	71, 472, 241	44, 608, 331
Square yards.....		298, 065, 247	
Average single yarn count—			
40s and under—			
Pounds.....	87	58, 257, 812	32, 307, 332
Square yards.....		216, 518, 117	
41s and over—			
Pounds.....	35	13, 214, 429	12, 300, 999
Square yards.....		81, 547, 130	
Cotton yarns produced for sale, total.....	473	Pounds 647, 725, 439	253, 349, 111
Carded, total.....	343	498, 312, 964	164, 795, 397
Yarns for sewing thread and for crochet, darning, hand-knitting, and embroidery cottons.....	12	6, 709, 744	2, 745, 225
Other carded yarns produced for sale, including those for weaving and machine knitting.....	343	491, 603, 220	162, 050, 172
Combed, total.....	176	149, 412, 475	88, 553, 714
Yarns for sewing thread and for crochet, darning, hand-knitting, and embroidery cotton.....	22	11, 372, 659	8, 396, 078
Other combed yarns produced for sale, including those for weaving and machine knitting.....	163	138, 039, 816	80, 157, 636
Thread <sup>9</sup> .....	36	25, 250, 378	37, 099, 794
Twine <sup>10</sup> .....	29	40, 642, 518	14, 650, 396
Batting, wadding and mattress felts <sup>11</sup> .....	67	149, 481, 003	19, 406, 875
Cotton card laps, sliver, and roving, produced for sale.....	19	10, 134, 267	1, 760, 475
Cotton waste produced for sale.....	928	443, 916, 268	32, 570, 034
Other cotton products.....	102		15, 310, 989
Old bagging and ties.....	746		1, 308, 467

See footnotes on p. 45.

## INDUSTRY GROUP 2.—TEXTILES AND THEIR PRODUCTS—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>COTTON SMALL WARES<sup>1</sup></b>			
Aggregate.....	(?)	-----	\$65,494,303
Elastic webbing, total.....	<sup>3</sup> 70	-----	25,099,028
Woven.....	41	-----	19,747,093
Braided.....	35	-----	5,351,935
Nonelastic webbing, total.....	<sup>3</sup> 63	-----	11,957,415
Woven.....	43	-----	8,951,173
Braided.....	27	-----	3,006,242
Shoe and corset laces.....	39	-----	6,286,230
Woven labels.....	19	-----	2,188,562
Belting for machinery, total.....	<sup>3</sup> 18	-----	3,665,679
Transmission.....	12	-----	1,366,265
Conveyor.....	5	-----	872,969
All other.....	9	-----	1,426,445
Other woven cotton small wares <sup>12</sup> .....	43	-----	9,816,257
Other braided cotton small wares.....	46	-----	6,481,132

**DYEING AND FINISHING TEXTILES**

(This classification is applied to all establishments engaged primarily in such operations as bleaching, dyeing, mercerizing, printing, or otherwise converting yarn or cloth, without regard to the kind of fiber; beaming or winding yarns; or spooling threads (except winding and warping silk))

(Commodities not reported in detail).....	732	-----	\$465,820,629
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**EMBROIDERIES**

Aggregate.....	(?)	-----	\$25,519,279
Schiffli-machine products, total.....	<sup>3</sup> 113	-----	11,898,788
Embroidered handkerchiefs.....	4	-----	726,328
Other embroideries on a cloth foundation, total.....	<sup>3</sup> 79	-----	6,110,907
Cotton cloth embroidered with cotton.....	30	-----	1,402,761
Art linen embroidered with silk.....	8	-----	448,147
Dress novelties and dress trimmings embroidered with silk.....	29	-----	1,540,526
Other embroideries on cloth.....	33	-----	2,719,473
Embroideries on a net foundation, total.....	<sup>3</sup> 54	-----	3,509,193
Cotton net embroidered with cotton only.....	25	-----	1,073,556
Cotton net embroidered with cord.....	21	-----	500,043
Cotton net embroidered with cotton and cord.....	20	-----	550,884
Silk net embroidered with silk.....	6	-----	247,510
Other embroideries on net.....	17	-----	1,077,200
All other Schiffli embroideries.....	8	-----	319,945
Burnt-out laces, total.....	<sup>3</sup> 42	-----	1,232,415
Cotton.....	37	-----	905,709
Other.....	10	-----	326,706
Embroideries other than Schiffli, total.....	<sup>3</sup> 78	-----	13,620,491
Bonnaz embroideries.....	54	-----	6,572,020
Embroideries other than Schiffli and Bonnaz, total.....	<sup>3</sup> 30	-----	7,048,471
Handkerchiefs.....	24	-----	370,514
Other.....	17	-----	6,677,957

See footnotes on p. 45.

INDUSTRY GROUP 2.—TEXTILES AND THEIR PRODUCTS—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>FELT GOODS, WOOL, HAIR, OR JUTE<sup>1</sup></b>			
Aggregate.....	(?)		\$42,293,533
		<i>Pounds</i>	
Felt cloths (woven), total.....	23	7,075,076	17,113,027
Paper makers' felts.....	11	5,829,964	14,700,523
Laundry-machine felts.....	6	382,738	488,058
Other woven felts.....	8	862,374	1,924,441
Trimming and lining felts.....	9	6,147,012	3,889,009
Buffing-wheel and polishing felts, total.....	9	2,292,490	1,656,986
Wool.....	9	783,949	1,146,077
Hair.....	4	1,508,541	510,909
Piano felts.....	8	200,933	343,786
Boot and shoe linings.....	6	1,607,108	1,182,815
Shoe and slipper felts <sup>13</sup> .....	7	5,148,028	2,981,914
Carpet lining and cushion felts <sup>13</sup> .....	14	21,612,978	4,402,176
Pipe and boiler insulating felts <sup>13</sup> .....	8	10,966,507	1,449,571
Building-insulation and acoustic felts <sup>13</sup> .....	9	11,241,539	1,397,323
Other felts (principally wool).....	30	18,791,184	7,816,921

FLAGS AND BANNERS

[Principal products: Flags, banners, pennants, etc., made from bunting, cotton felt, leather, silk, and other materials]

(Commodities not reported in detail).....	54		\$3,835,824
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FLAX AND HEMP, DRESSED

[The dressing of flax and hemp consists in the separation of the woody portion of the straw from the fiber, a combined process of decay and mechanical treatment technically known as retting, breaking, scutching, and hackling]

(Commodities not reported in detail).....	6		\$197,035
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FURNISHING GOODS, MEN'S<sup>1</sup>

Aggregate.....	(?)		\$153,965,423
Neckwear (other than collars), not made in knitting mills, total.....	351		86,560,582
Neckties—		<i>Dozens</i>	
Four-in-hand.....	282	10,273,067	67,091,934
Bow.....	172	2,523,557	9,237,438
Other neckties.....	6	278,414	1,670,616
Scarfs.....	67	515,319	6,203,810
Other neckwear.....	51		2,356,784
Sleeping garments, total.....	95	1,847,018	24,218,644
Nightshirts.....	35	244,584	2,533,143
Pajamas.....	90	1,602,434	21,685,501
Underwear (not made in knitting mills), total.....	124	6,167,380	30,926,784
Athletic underwear, total.....	86	4,726,744	23,358,398
2-piece suits, woven fabric.....	49	1,305,281	6,931,856
Union suits, woven fabric.....	75	3,261,160	15,781,819
Shirts, knit fabric.....	7	160,303	644,723
Other underwear.....	53	1,440,636	7,568,386
Bath robes.....	34	1,676,914	8,906,885
Lounging garments.....	23	361,150	2,168,888
Other furnishing goods, men's.....	15		1,183,640

See footnotes on p. 45.

## INDUSTRY GROUP 2.—TEXTILES AND THEIR PRODUCTS—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>GLOVES AND MITTENS, CLOTH OR CLOTH AND LEATHER COMBINED, MADE FROM PURCHASED FABRICS<sup>1</sup></b>			
Aggregate.....	( <sup>2</sup> )	<i>Dozen pairs</i> 17, 270, 242	\$34, 353, 836
All-woven fabric.....	87	10, 308, 087	14, 260, 205
All-knit fabric, total.....	<sup>3</sup> 65	3, 727, 761	8, 897, 272
Gloves, total.....	<sup>3</sup> 61	3, 479, 067	8, 171, 812
Cotton, total.....	<sup>3</sup> 52	3, 022, 004	4, 782, 482
Warp-knit, total.....	<sup>3</sup> 47	2, 972, 659	4, 709, 333
Sueded.....	31	1, 202, 729	1, 981, 833
Other than sueded.....	24	1, 769, 930	2, 727, 500
Cone-knit.....	6	49, 435	73, 149
Woolen and worsted.....	8	117, 068	618, 981
Silk.....	4	322, 651	2, 721, 442
Other.....	3	17, 254	48, 907
Mittens, total.....	15	248, 694	725, 460
Woolen and worsted.....	10	116, 647	404, 910
Wool and cotton.....	5	132, 047	320, 550
Combination of woven or knitted fabric and leather.....	64	3, 195, 116	11, 027, 765
Other gloves and mittens.....	9	39, 278	108, 594

**HAIRCLOTH**

[This industry embraces establishments engaged primarily in the weaving of haircloth, mainly from cotton warp with horsehair filling]

(Commodities not reported in detail).....	13		\$3, 856, 388
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**HANDKERCHIEFS<sup>1</sup>**

Aggregate.....	( <sup>2</sup> )		\$28, 548, 209
Men's handkerchiefs.....	63	<i>Dozens</i> 21, 024, 221	14, 685, 731
Women's handkerchiefs.....	76	18, 960, 675	13, 862, 478

**HAT AND CAP MATERIALS, MEN'S**

[The establishments classified in this industry are those engaged in the preparation of hatters' fur, in the manufacture of linings, sweatbands, visors, and trimmings, and in printing on sweatbands, linings, and bands]

(Commodities not reported in detail).....	112		\$26, 030, 943
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**HATS AND CAPS, EXCEPT FELT AND STRAW, MEN'S**

Aggregate.....	( <sup>2</sup> )		\$34, 831, 878
Cloth hats and caps.....	562	<i>Dozens</i> 4, 539, 793	34, 158, 155
Other hats and caps.....	10	45, 157	673, 723

**HATS, FUR-FELT**

Aggregate.....	( <sup>2</sup> )		\$95, 278, 085
Finished hats, total.....	<sup>3</sup> 137	<i>Dozens</i> 1, 770, 058	70, 808, 931
Men's.....	133	1, 737, 609	68, 917, 165
Women's.....	6	32, 389	1, 891, 766
Fur-felt hat bodies and hats in the rough.....	38	1, 533, 937	24, 469, 154

See footnotes on p. 45.

INDUSTRY GROUP 2.—TEXTILES AND THEIR PRODUCTS—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>HATS, WOOL-FELT</b>			
Aggregate.....	(?)		\$8,031,145
Finished hats, total.....	11	399,804	4,409,791
Men's.....	8	227,611	2,603,604
Women's and children's.....	10	172,193	1,806,187
Hat bodies, for sale as such.....	6	500,516	3,621,354

**HORSE BLANKETS, FLY NETS, AND RELATED PRODUCTS**

[Principal products: Horse blankets, saddlecloths, breast aprons, made from purchased fabrics; cotton and leather fly nets, sweat pads, etc.]

(Commodities not reported in detail).....	14		\$2,895,158
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**HOUSE-FURNISHING GOODS, NOT ELSEWHERE CLASSIFIED**

Aggregate.....	(?)		\$126,186,377
Comfortables.....	33		6,904,701
Quilts.....	51		3,514,498
Bedspreads and bed sets.....	110		9,042,204
Tablecloths, lunch cloths, and napkins.....	20		2,358,835
Table and dresser covers and scarfs.....	51		4,741,425
Curtains and draperies.....	429		47,666,990
Feather pillows and leather beds.....	125		6,963,560
Cushions and hassocks.....	64		4,223,156
Mops and dusters.....	92		5,569,003
Slip covers.....	87		3,920,944
Other house-furnishing goods.....	371		31,291,061

**KNIT GOODS**

Aggregate.....	(?)		\$881,176,187
Hosiery (except infants' and athletic and golf hose), total.....	715	<i>Dozen pairs</i> 111,190,705	500,381,773
Full fashioned, total.....	272	31,929,245	311,684,126
Seamless, total.....	484	79,261,460	188,747,647
Men's, total.....	329	44,787,001	97,244,694
Full fashioned.....	39	714,957	4,783,408
Seamless.....	303	44,072,044	92,461,286
All cotton—			
Full fashioned.....	3	25,985	132,682
Seamless.....	188	16,405,602	19,959,409
All pure thread silk—			
Full fashioned.....	11	62,579	553,654
Seamless.....	11	396,619	1,352,043
Pure thread silk with lisle or cotton tops, heels, and toes—			
Full fashioned.....	16	315,926	2,085,711
Seamless.....	59	1,430,588	6,895,804
Rayon with cotton tops, heels, and toes, and all rayon—			
Full fashioned.....	5	100,045	290,123
Seamless.....	90	8,127,580	18,158,233
Mixtures—			
Silk and wool—			
Full fashioned.....	4	12,920	164,753
Seamless.....	11	46,138	300,722

See footnotes on p. 45.

## INDUSTRY GROUP 2.—TEXTILES AND THEIR PRODUCTS—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>KNIT GOODS<sup>1</sup>—Continued</b>			
Hosiery (except infants' and athletic and golf hose)—Con.			
Men's—Continued.			
Mixtures—Continued.			
Silk and rayon—		<i>Dozen pairs</i>	
Full fashioned.....	3	38, 576	\$272, 650
Seamless.....	11	1, 680, 620	7, 540, 333
Rayon and wool—			
Full fashioned.....	3	5, 786	42, 499
Seamless.....	35	337, 333	1, 576, 124
Other hosiery—			
Full fashioned.....	14	153, 140	1, 241, 336
Seamless.....	116	15, 647, 514	36, 678, 618
Women's, total.....	<sup>a</sup> 379	51, 215, 852	372, 014, 103
Full fashioned.....	267	31, 085, 182	306, 641, 233
Seamless.....	154	20, 130, 670	65, 372, 870
All cotton—			
Full fashioned.....	5	340, 839	1, 063, 995
Seamless.....	87	6, 928, 095	11, 612, 032
All pure thread silk—			
Full fashioned.....	109	5, 816, 337	67, 403, 686
Seamless.....	15	663, 274	4, 220, 634
Pure thread silk with lisle or cotton tops, heels, and toes—			
Full fashioned.....	181	19, 224, 224	192, 353, 962
Seamless.....	58	2, 623, 557	17, 614, 658
Rayon with cotton tops, heels, and toes, and all rayon—			
Full fashioned.....	25	1, 665, 302	10, 211, 120
Seamless.....	50	5, 475, 317	15, 587, 546
Mixtures—			
Cotton and wool, and all wool—			
Full fashioned.....	7	81, 743	318, 315
Seamless.....	23	167, 881	816, 365
Silk and wool—			
Full fashioned.....	7	34, 027	523, 538
Seamless.....	5	59, 642	437, 050
Silk and cotton—			
Full fashioned.....	22	2, 590, 030	26, 876, 261
Seamless.....	5	80, 193	384, 940
Silk and rayon—			
Full fashioned.....	9	1, 038, 141	6, 275, 641
Seamless.....	44	1, 327, 094	6, 174, 245
Rayon and wool—			
Full fashioned.....	9	49, 220	450, 491
Seamless.....	23	304, 783	1, 612, 790
Rayon and cotton—			
Full fashioned.....	7	183, 557	652, 976
Seamless.....	45	2, 026, 179	4, 360, 198
Triple mixtures—			
Full fashioned.....	3	52, 762	512, 248
Seamless.....	21	474, 655	2, 052, 412
Boys', misses', and children's, total.....	<sup>b</sup> 150	15, 187, 852	31, 122, 976
Full fashioned.....	5	129, 106	209, 485
Seamless.....	148	15, 058, 746	30, 913, 491
All cotton.....	94	9, 694, 295	16, 789, 077
All wool.....	13	42, 667	191, 948
All pure thread silk.....	11	36, 002	217, 879
Pure thread silk with lisle or cotton tops, heels, and toes.....	12	52, 137	384, 822
Rayon with cotton tops, heels, and toes, and all rayon.....	31	1, 032, 674	2, 494, 234

See footnotes on p. 45.

INDUSTRY GROUP 2.—TEXTILES AND THEIR PRODUCTS—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>KNIT GOODS 1—Continued</b>			
<b>Hosiery (except infants' and athletic and golf hose)—Con.</b>			
<b>Boys', misses', and children's—Con.</b>			
<b>Mixtures—</b>			
Cotton and wool.....	14	<i>Dozen pairs</i> 358, 988	\$1, 144, 959
Silk and wool and silk and cotton.....	7	7, 723	22, 305
Silk and rayon.....	15	91, 944	367, 782
Rayon and wool.....	17	257, 876	1, 002, 327
Rayon and cotton.....	47	3, 480, 248	8, 093, 814
Triple mixtures.....	15	133, 208	413, 829
<b>Infants' hose, total.....</b>	<b>61</b>	<b>6, 174, 838</b>	<b>11, 244, 403</b>
Full fashioned.....	3	59, 596	180, 357
Seamless.....	58	6, 115, 242	11, 064, 046
All cotton.....	33	1, 777, 893	2, 577, 486
All wool.....	14	87, 633	272, 145
All pure thread silk.....	7	57, 424	280, 419
Pure-thread silk with lisle or cotton tops, heels, and toes.....	8	499, 802	922, 994
All rayon.....	3	34, 280	60, 314
Rayon with cotton tops, heels, and toes.....	10	1, 252, 413	2, 364, 268
<b>Mixtures—</b>			
Cotton and wool.....	11	138, 175	404, 976
Silk and wool.....	9	42, 371	188, 354
Silk and rayon, and silk and cotton.....	12	112, 910	295, 872
Rayon and wool.....	11	181, 990	455, 674
Rayon and cotton.....	29	1, 467, 865	2, 512, 630
Triple mixtures.....	7	522, 082	909, 271
<b>Knit underwear, total.....</b>	<b>257</b>		<b>135, 092, 008</b>
<b>Shirts and drawers, total.....</b>			
<i>Dozen pieces</i>			
All cotton.....	160	8, 801, 924	37, 669, 519
All wool.....	17	7, 179, 762	23, 088, 586
Cotton and wool mixed.....	45	50, 105	815, 505
Silk.....	17	380, 355	4, 300, 713
Silk and rayon mixtures.....	9	119, 958	1, 902, 450
Rayon.....	64	57, 961	497, 449
Other 14.....	13	1, 002, 098	6, 980, 273
		11, 685	104, 543
<b>Union suits, total.....</b>	<b>211</b>	<i>Dozens</i> 8, 891, 124	<b>70, 837, 155</b>
All cotton.....	160	7, 377, 755	50, 397, 842
All wool.....	26	136, 063	3, 076, 960
Cotton and wool mixed.....	57	811, 195	11, 725, 176
Silk.....	9	30, 620	802, 887
Silk and rayon mixtures.....	5	34, 537	326, 629
Rayon.....	52	480, 612	4, 302, 271
Other.....	6	20, 342	205, 390
<b>Bloomers and step-ins, total.....</b>	<b>95</b>	2, 382, 841	<b>18, 319, 129</b>
All cotton.....	41	482, 007	1, 705, 683
Cotton and wool mixed.....	4	4, 904	23, 943
Silk.....	11	92, 083	1, 924, 878
Silk and rayon mixtures.....	9	57, 162	751, 275
Rayon.....	53	1, 714, 560	13, 811, 839
Other.....	4	32, 155	101, 511
<b>Slips and petticoats.....</b>	<b>31</b>	258, 779	<b>2, 119, 767</b>
<b>Infants' underwear.....</b>	<b>28</b>		<b>6, 146, 438</b>
<b>Outer wear, total.....</b>	<b>766</b>		<b>149, 856, 408</b>
Sweaters, sweater coats, jerseys, etc.....	585	4, 807, 422	89, 428, 942
Bathing suits.....	129	1, 021, 433	22, 084, 308
Sears and shawls.....	27	126, 911	1, 163, 118
Headware (except infants').....	42	783, 425	3, 783, 126
Neckties.....	26	627, 727	1, 717, 051
<b>Athletic and golf hose.....</b>	<b>68</b>	<i>Dozen pairs</i> 1, 105, 498	<b>4, 770, 259</b>
<b>Dresses and suits.....</b>	<b>80</b>	<i>Number</i> 1, 023, 446	<b>11, 160, 093</b>
<b>Infants' outer wear.....</b>	<b>63</b>		<b>8, 593, 707</b>
<b>Other outer wear.....</b>	<b>56</b>		<b>7, 865, 804</b>

See footnotes on p. 45.

## INDUSTRY GROUP 2.—TEXTILES AND THEIR PRODUCTS—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>KNIT GOODS</b> —Continued			
Knit cloth, total.....	116		\$67,818,801
Wool jersey.....	28	<i>Square yards</i> 7,211,769	7,742,005
Other knit woollens.....	16	2,508,653	4,408,731
Silk jersey (including milanese).....	14	4,127,290	3,115,764
Rayon tubing (including tricolette).....	27	49,947,738	29,760,519
Other knit rayons.....	6	1,613,837	890,627
Cotton jersey.....	24	14,233,953	4,756,329
Corset cloth—			
Rayon and cotton.....	11	1,698,038	1,581,770
Other.....	5	3,159,708	2,909,736
Glove and shoe linings.....	10		4,654,990
Stockinette.....	5		1,234,004
Other knit cloth.....	41		6,764,319
Other knit goods.....	63		16,782,704

LACE GOODS<sup>1</sup>

Aggregate.....	(2)		\$27,930,707
Nottingham lace curtains.....	11	<i>Pairs</i> 6,112,561	11,249,575
Nottingham lace curtain nets.....	11	<i>Linear yards</i> 14,812,593	4,674,795
Lavers laces, total.....	32		8,755,972
Allovers, total.....	23	<i>Square yards</i> 4,958,239	4,367,339
Cotton.....	17	1,855,572	1,460,686
Rayon.....	5	382,302	420,588
Other.....	15	2,720,365	2,486,115
Edgings, insertions, galoons, and flouncings, total.....	19		4,388,533
Cotton.....	17		2,018,980
Rayon.....	7		780,655
Silk.....	6		89,593
Other.....	8		1,499,355
Bobbinets.....	6		836,873
Other nets and laces.....	9		2,413,492

LINOLEUM AND ASPHALTED-FELT-BASE FLOOR COVERING<sup>1</sup>

Aggregate.....	(2)		\$85,687,536
Linoleum, total.....	38	<i>Square yards</i> 48,272,133	48,744,479
Piece goods, total.....	38	45,403,608	46,810,167
Inlaid, total.....	36	23,208,418	27,033,088
Straight-line.....	5	14,170,638	16,288,803
Molded.....	5	9,037,780	10,744,885
Plain, total.....	38	10,315,862	13,087,869
Battleship and A.....	8	7,003,574	10,631,534
B, C, D, and E.....	8	2,712,288	2,456,335
Printed, total.....	37	11,471,135	6,235,966
12/4 and 16/4.....	5	4,870,019	2,774,913
8/4 and 10/4.....	7	6,601,116	3,461,053
Cork carpet.....	7	408,193	452,044
Rugs.....	5	2,868,525	1,934,312

See footnotes on p. 45.

INDUSTRY GROUP 2.—TEXTILES AND THEIR PRODUCTS—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>LINOLEUM AND ASPHALTED-FELT-BASE FLOOR COVERING <sup>1</sup>—Continued</b>			
Asphalted-felt-base floor covering, total.....	3 21	<i>Square yards</i> 117,969,725	\$36,943,057
Piece goods, total.....	3 21	57,026,360	14,680,017
12/4, total.....	3 13	6,960,553	2,032,865
Made on less than "050" gage felt.....	10	2,169,111	509,321
Made on "050" gage felt or thicker.....	13	4,791,442	1,523,044
8/4, total.....	3 19	44,400,278	11,621,078
Made on less than "050" gage felt.....	17	23,809,293	5,470,632
Made on "050" gage felt or thicker.....	14	20,590,985	6,150,446
Narrower than 8/4, total.....	3 5	5,665,529	1,026,074
Made on less than "050" gage felt.....	5	5,494,659	965,374
Made on "050" gage felt or thicker.....	3	170,870	60,200
Rugs, total.....	3 16	60,943,365	22,263,040
Made on less than "050" gage felt.....	15	27,299,303	7,758,888
Made on "050" gage felt or thicker.....	13	33,644,062	14,504,152

**MATS AND MATTING, GRASS AND COIR**

[The establishments classified in this industry are engaged primarily in the manufacture of doormats, floor mattings, rugs, and carpets from such materials as wire grass, reeds, and coir yarn]

(Commodities not reported in detail).....	7		\$1,692,200
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**MILLINERY**

Aggregate.....	( <sup>2</sup> )		\$195,974,831
Trimmed hats, total.....	3 1,142		173,513,281
Wool-felt hats made from purchased bodies.....	828		65,131,349
Fur-felt hats made from purchased bodies.....	363		27,635,597
Other trimmed hats.....	976		80,851,335
Hat frames.....	31		899,836
Hat linings.....	30		7,423,685
Millinery braids, total.....	3 53		3,968,931
Real horsehair.....	12		218,845
Artificial or imitation horsehair.....	27		1,284,856
Artificial or imitation straw.....	26		1,256,606
Other braids.....	24		1,208,624
Millinery trimmings.....	38		2,464,918
Infants' headwear.....	49		5,290,079
Other millinery products.....	42		2,404,101

**NETS AND SEINES**

[Principal products: Fish nets and netting, seines, and laundry nets]

(Commodities not reported in detail).....	19		\$6,164,403
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**OILCLOTH <sup>1</sup>**

Aggregate.....	( <sup>2</sup> )	<i>Square yards</i> 125,676,840	\$23,639,583
Enameled.....	8	18,470,395	5,359,088
Table and shelf.....	9	89,078,544	14,524,507
Wall.....	4	18,127,901	3,755,988

See footnotes on p. 45.

## INDUSTRY GROUP 2.—TEXTILES AND THEIR PRODUCTS—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>REGALIA, BADGES, AND EMBLEMS</b>			
[Principal products: Robes, costumes, badges, lodge paraphernalia, church vestments, religious medals, printed ribbons, etc., for use by military, naval, fraternal, and religious organizations]			
(Commodities not reported in detail).....	77		\$7,927,214

**SHIRTS<sup>1</sup>**

Aggregate.....	(2)		\$214,310,328
Shirts, total.....	8 614		212,717,860
Men's shirts (except work and flannel), total.....	8 468	<i>Dozens</i>	146,753,316
Neckband style.....	378	10,962,934	40,293,091
Collar-attached style.....	414	2,952,438	106,460,225
8,010,496			
Men's work shirts.....	113	5,142,276	36,343,144
Men's flannel shirts.....	78	559,079	9,401,283
Boys' shirts (except work and flannel).....	73	1,305,583	9,361,120
Boys' flannel shirts.....	17	216,196	1,384,287
Boys' blouses.....	59	1,178,609	7,806,607
Juniors' shirts (ages 6 to 12).....	19	202,882	1,068,123
Neckbands, etc., for sale as such.....	(1)		1,592,468

**SILK AND RAYON MANUFACTURES<sup>1</sup>**

Aggregate.....	(2)		\$680,434,925
Broad goods (except velvets, plushes, upholsteries, and tapes-tries), total:			
Pounds.....	8 627	{ 81,523,379	488,208,166
Square yards.....		{ 597,113,792	
All silk—			
Pounds.....	498	{ 46,830,804	385,773,297
Square yards.....		{ 424,607,181	
All rayon—			
Pounds.....	119	{ 13,146,354	34,738,267
Square yards.....		{ 66,024,378	
Silk and rayon mixed—			
Pounds.....	124	{ 4,583,262	24,428,490
Square yards.....		{ 31,739,493	
Silk and cotton mixed—			
Pounds.....	69	{ 5,291,652	17,781,357
Square yards.....		{ 27,712,929	
Rayon and cotton mixed <sup>13</sup> —			
Pounds.....	55	{ 8,967,423	16,616,667
Square yards.....		{ 37,240,687	
Other mixed goods—			
Pounds.....	56	{ 2,703,884	8,870,088
Square yards.....		{ 9,789,124	
Velvets, total:			
Pounds.....	8 12	{ 3,003,377	25,112,377
Square yards.....		{ 9,650,631	
All silk—			
Pounds.....	4	{ 90,947	976,066
Square yards.....		{ 321,561	
Silk and rayon mixed—			
Pounds.....	9	{ 1,114,604	12,886,604
Square yards.....		{ 3,823,011	
Silk and cotton mixed—			
Pounds.....	7	{ 819,958	4,862,661
Square yards.....		{ 2,204,359	
Other mixtures—			
Pounds.....	5	{ 977,868	6,387,046
Square yards.....		{ 3,301,700	
Plushes, total:			
Pounds.....	11	{ 1,763,149	3,829,769
Square yards.....		{ 1,956,654	

See footnotes on p. 45.

INDUSTRY GROUP 2.—TEXTILES AND THEIR PRODUCTS—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>SILK AND RAYON MANUFACTURES—Continued</b>			
Upholsteries (except velvets and plushes), total:			
Pounds.....	21	699,463	\$5,206,631
Square yards.....		2,869,041	
All silk—			
Pounds.....	7	66,893	951,056
Square yards.....		521,659	
All rayon and silk and rayon mixed—			
Pounds.....	5	177,817	1,340,190
Square yards.....		886,250	
Silk and cotton mixed and rayon and cotton mixed—			
Pounds.....	5	331,873	2,207,857
Square yards.....		1,171,030	
Other—			
Pounds.....	15	122,880	707,528
Square yards.....		290,102	
Tapestries:			
Pounds.....	3	240,702	915,240
Square yards.....		534,002	
Threads and yarns, for sale:			
Silk—		<i>Pounds</i>	
Organzine, tram, and crêpe twist.....	62	12,121,022	69,740,353
Spun silk.....	15	3,769,133	12,915,545
Machine twist.....	14	515,111	4,822,219
Sewing thread.....	12	237,979	2,217,641
Embroidery and other floss silks.....	10	96,747	646,123
Rayon <sup>16</sup> —			
Sewing, embroidery, and floss rayons.....	16	1,395,441	2,174,026
Other rayon yarns.....	8	2,886,213	5,629,397
Other yarns (principally silk and rayon mixed).....	17	3,736,503	7,199,709
Ribbons, total.....	90		25,007,932
All silk.....	32		4,443,561
Silk and rayon mixed.....	23		9,478,306
Silk and cotton mixed.....	48		6,971,929
Other.....	80		4,118,636
Fringes and gimps, total.....	43		7,838,964
All rayon.....	9		550,384
Silk and cotton mixed.....	9		493,593
Rayon and cotton mixed.....	19		6,445,858
Other.....	10		348,849
Braids, total.....	57		4,387,644
All rayon.....	26		1,463,889
Rayon and cotton mixed.....	31		2,056,965
Other.....	20		867,790
Bindings, total.....	7		474,877
Silk and cotton mixed.....	4		275,425
Other.....	3		199,452
Woven labels, total.....	17		4,646,590
All silk.....	6		467,993
Silk and rayon mixed.....	7		955,422
Silk and cotton mixed.....	15		2,882,311
Other.....	6		340,864
Silk warps, for sale.....	10		1,582,974
Other silk and rayon products <sup>17</sup> .....	44		7,928,748

**SUSPENDERS, GARTERS, AND OTHER ELASTIC WOVEN GOODS MADE FROM PURCHASED WEBBING**

Aggregate.....	( <sup>2</sup> )		\$26,530,918
Suspenders.....	67	<i>Dozen pairs</i> 1,793,680	7,519,422
Garters and hose supporters:			
Men's.....	44	4,234,497	8,154,490
Women's.....	32	6,358,370	6,556,436
Arm bands.....	19	415,927	377,556
Other elastic woven goods made from purchased webbing.....	16		3,893,014

See footnotes on p. 45.

## INDUSTRY GROUP 2.—TEXTILES AND THEIR PRODUCTS—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>TRIMMINGS (NOT MADE IN TEXTILE MILLS) AND STAMPED ART GOODS FOR EMBROIDERING</b>			
Aggregate.....	(2)		\$38,936,956
Trimnings, total.....	2 512		26,617,564
Dress and coat trimmings.....	63		1,660,867
Tucking, pleating, and hem-stitching.....	373		11,743,488
Bias bindings.....	87		13,243,209
Stamped art goods for embroidery.....	62		12,270,392

**UPHOLSTERING MATERIALS, NOT ELSEWHERE CLASSIFIED**

[Principal products: Curled hair and ginned moss; jute-fiber batting, sisal-fiber filling, palm-leaf fiber, carpet padding, gimps and binding for automobile upholstery, and tassels.]

(Commodities not reported in detail).....	53		\$11,234,192
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**WASTE**

Aggregate.....	(2)		\$33,267,530
Cotton waste.....	77	<i>Pounds</i> 282,000,430	17,468,574
Wool waste.....	50	23,185,063	3,404,478
Other processed waste <sup>1b</sup> .....	38	22,677,622	3,220,082
Wiping rags.....	68		8,314,396

**WOOLEN GOODS AND WORSTED GOODS**

Aggregate.....	(2)		\$802,875,695
Men's-wear fabrics:			
Woolen, total—			
Pounds.....	211	{	81,629,552
Square yards.....			
Suits and pantings (except flannels)—			
Pounds.....	140	{	34,802,070
Square yards.....			
Flannel suits and pantings—			
Pounds.....	23	{	2,098,717
Square yards.....			
Shirts—			
Pounds.....	19	{	2,058,614
Square yards.....			
Top coatings—			
Pounds.....	47	{	5,332,528
Square yards.....			
Overcoatings—			
Pounds.....	73	{	21,683,818
Square yards.....			
Uniform cloths—			
Pounds.....	26	{	2,565,769
Square yards.....			
Cap cloths—			
Pounds.....	23	{	3,402,477
Square yards.....			
Auto cloths (except pile fabrics)—			
Pounds.....	10	{	7,668,937
Square yards.....			
Other—			
Pounds.....	18	{	2,016,622
Square yards.....			
Worsted, total—			
Pounds.....	140	{	72,006,700
Square yards.....			
Staple suits and pantings—			
Pounds.....	52	{	35,000,508
Square yards.....			

See footnotes on p. 45.

INDUSTRY GROUP 2.—TEXTILES AND THEIR PRODUCTS—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>WOOLEN GOODS AND WORSTED GOODS—Continued</b>			
Men's-wear fabrics—Continued.			
Worsted—Continued.			
Fancy suitings and pantings—			
Pounds.....	80	{ 33,756,060 62,495,221 }	\$99,895,092
Square yards.....			
Tropicals and summer fabrics—			
Pounds.....	16	{ 1,483,129 3,659,485 }	4,124,014
Square yards.....			
Uniform cloths—			
Pounds.....	19	{ 1,417,799 2,524,885 }	4,231,545
Square yards.....			
Topcoatings—			
Pounds.....	3	{ 54,355 96,321 }	152,660
Square yards.....			
Overcoatings and auto cloths (except pile fabrics)—			
Pounds.....	5	{ 485,039 645,377 }	1,095,027
Square yards.....			
Other—			
Pounds.....	4	{ 310,819 580,830 }	1,080,540
Square yards.....			
Woolen and worsted made with cotton or manipulated warps, total—			
Pounds.....	97	{ 45,159,074 83,435,610 }	50,130,207
Square yards.....			
Suitings and pantings—			
Pounds.....	55	{ 18,917,308 36,501,086 }	25,008,326
Square yards.....			
Shirtings and flannels—			
Pounds.....	24	{ 6,450,714 11,354,120 }	3,816,414
Square yards.....			
Overcoatings—			
Pounds.....	17	{ 7,394,526 6,250,886 }	5,504,959
Square yards.....			
Cap cloths—			
Pounds.....	13	{ 1,103,462 1,590,131 }	1,319,779
Square yards.....			
Auto cloths (except pile fabrics)—			
Pounds.....	12	{ 4,869,785 6,657,660 }	3,900,459
Square yards.....			
Other—			
Pounds.....	26	{ 6,423,279 21,081,727 }	10,580,270
Square yards.....			
Women's-wear fabrics:			
Woolen, total—			
Pounds.....	126	{ 31,891,095 50,709,337 }	56,786,695
Square yards.....			
Dress fabrics and suitings—			
Pounds.....	63	{ 11,158,795 18,515,589 }	20,208,561
Square yards.....			
Coatings—			
Pounds.....	73	{ 20,732,300 32,193,748 }	36,578,134
Square yards.....			
Worsted, total—			
Pounds.....	29	{ 17,590,953 37,182,796 }	41,139,399
Square yards.....			
Dress fabrics and suitings—			
Pounds.....	24	{ 15,200,089 33,514,051 }	35,907,490
Square yards.....			
Coatings—			
Pounds.....	8	{ 2,158,832 3,425,749 }	4,815,784
Square yards.....			
Other—			
Pounds.....	4	{ 142,032 242,996 }	416,125
Square yards.....			
Woolen and worsted made with cotton or manipulated warps, total—			
Pounds.....	20	{ 9,074,005 10,795,928 }	7,613,052
Square yards.....			
Dress fabrics and suitings—			
Pounds.....	13	{ 1,501,838 2,589,994 }	1,625,134
Square yards.....			

See footnotes on p. 45.

## INDUSTRY GROUP 2.—TEXTILES AND THEIR PRODUCTS—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>WOOLEN GOODS AND WORSTED GOODS—Continued</b>			
<b>Women's-wear fabrics—Continued.</b>			
Coatings—			
Pounds.....	15	7,212,817	\$5,512,592
Square yards.....		7,388,046	
Other—			
Pounds.....	5	359,350	475,326
Square yards.....		817,888	
Blankets:			
All wool—			
Pounds.....	63	12,420,629	15,831,332
Square yards.....		18,094,945	
Wool and cotton <sup>1</sup> —			
Pounds.....	34	15,795,731	10,622,945
Square yards.....		28,064,076	
Horse blankets:			
Pounds.....	7	475,481	212,209
Square yards.....		394,444	
Upholsteries (except pile fabrics and auto cloths) and draperies:			
Pounds.....	5	1,275,926	3,698,513
Square yards.....		2,870,672	
Other woollen and worsted woven goods except pile fabrics:			
Pounds.....	28	11,639,481	8,180,298
Square yards.....		14,017,617	
Pile fabrics (except women's coatings):			
Mohair (including combinations with wool)—			
Pounds.....	15	36,347,613	54,498,724
Square yards.....		31,732,243	
Other pile fabrics—			
Pounds.....	3	458,625	1,181,794
Square yards.....		583,468	
Yarns for sale:			
Woolen—			
All wool.....	72	Pounds 48,835,238	33,905,007
Wool and cotton combined.....	22	6,302,957	3,908,733
Worsted—			
All wool.....	102	89,051,646	140,264,850
Wool and cotton combined.....	17	2,571,662	3,345,072
Mohair and similar yarns.....	21	12,711,950	18,336,090
Wool card rolls, batts, and batting, for sale.....	26	704,838	661,957
Tops and slubbing, for sale.....	33	14,003,514	15,720,563
Noffs and wool waste, for sale.....	147	46,368,388	15,597,383

**WOOL PULLING**

[This industry designation covers (a) independent establishments engaged primarily in pulling wool, on contract, from pelts owned by others, and (b) independent establishments engaged primarily in pulling wool from purchased pelts]

(Commodities not reported in detail).....	18	\$13,648,064
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**WOOL SCOURING**

[This industry embraces (a) independent establishments engaged primarily in scouring, sorting, and carbonizing wool owned by others, and (b) independent establishments engaged primarily in scouring, sorting, and carbonizing purchased wool]

(Commodities not reported in detail).....	21	\$6,241,264
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See footnotes on p. 45.

INDUSTRY GROUP 2.—TEXTILES AND THEIR PRODUCTS—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>WOOL SHODDY</b>			
[This industry consists in the recovery of wool fiber from rags, waste, noils, tailors' clippings, etc.]			
(Commodities not reported in detail)-----	50	-----	\$15,344,978

<sup>1</sup> The amounts under this heading represent products manufactured during the period covered, whether sold or not.

<sup>2</sup> The aggregate numbers of establishments—i. e., the sums of the several items for a given group of products—are not shown because such aggregates would greatly overstate the actual numbers of establishments reporting the groups of products in question. This condition arises because in practically all cases each establishment is engaged in the manufacture of more than one of the individual products or classes of products. The net numbers of establishments reporting the several groups of products are not shown by the census tabulations.

<sup>3</sup> Inasmuch as some establishments manufacture more than 1 kind of product, the totals in this column are smaller than the sums of the figures below them.

<sup>4</sup> The net numbers of establishments reporting the several products are not shown by the census tabulations.

<sup>5</sup> Not including data for 47,342,550 pounds of binder twine made in penal institutions.

<sup>6</sup> Includes data for 40,642,518 pounds of cotton twine, valued at \$14,650,396, made as a secondary product in cotton mills.

<sup>7</sup> Due to the failure on the part of some manufacturers to report in square yards the quantity of cord fabric manufactured, it was necessary for the bureau to estimate 86.7 per cent of the square yards for this item. The estimate was based on the value of the average pounds per square yard of those reported.

<sup>8</sup> Not including products of silk mills.

<sup>9</sup> The figures given in this table relate solely to the products of establishments in the cotton-goods industry, and therefore do not include data for the production of cotton thread by establishments classified in the "Dyeing and finishing textiles" industry.

<sup>10</sup> The figures given in this table relate solely to the products of establishments in the cotton-goods industry, and therefore do not include data for the production of cotton twine by establishments engaged primarily in the manufacture of cordage and twine. The total production of cotton twine by all establishments reporting the manufacture of such twine was \$5,988,140 pounds, valued at \$28,991,411.

<sup>11</sup> Not including mattress felts made in mattress factories.

<sup>12</sup> Principally tapes and bindings.

<sup>13</sup> Can not be separately distributed by kinds of fiber used without disclosing the production of individual establishments, but these 4 items combined are composed of the following: Hair felts, 30,487,825 pounds, valued at \$7,319,102; jute felts, 6,573,265 pounds, valued at \$1,120,952; hair-and-jute-mixed felts, 11,902,962 pounds, valued at \$1,850,936.

<sup>14</sup> Not reported separately—included in "Other knit cloth."

<sup>15</sup> Not including production in cotton mills.

<sup>16</sup> The figures for this item refer to rayon yarns thrown, twisted, or otherwise changed into different forms from those in which they left the plants in which they were manufactured. For production of rayon yarns, see "Rayon and allied products" industry, p. 68.

<sup>17</sup> Tassels, cords, trimmings, and miscellaneous silk and rayon products.

<sup>18</sup> Includes oakum.

<sup>19</sup> The figures in this table relate solely to the products of establishments in the woolen-goods and worsted-goods industries. The total production of blankets composed of wool and cotton by all establishments reporting the manufacture of such blankets was 55,053,769 square yards, valued at \$19,614,718.

### INDUSTRY GROUP 3.—FOREST PRODUCTS

[This table presents statistics for all commodities covered by the Census of Manufactures classification, except those for which the figures must be withheld from publication in order to avoid disclosing, exactly or approximately, the data reported by individual establishments. (See sec. 7 of General Explanations)]

PRODUCT	Number of establishments	Quantity	Value
<b>BASKETS AND RATTAN AND WILLOW WARE, NOT INCLUDING FURNITURE</b>			
Aggregate.....	(1)		\$24, 705, 663
Baskets and hampers, total.....	2 312		22, 653, 970
Made of veneers.....	242		19, 647, 618
Made of reed, rattan, and willow.....	55		1, 825, 252
Made of other materials.....	23		1, 181, 100
Reed, rattan, and willow ware other than baskets, hampers, and furniture.....	10		1, 584, 753
Kind not specified.....	18		460, 935
<b>BILLIARD AND POOL TABLES, BOWLING ALLEYS, AND ACCESSORIES</b>			
Aggregate.....	(1)		\$9, 602, 242
Billiard and pool tables and accessories.....	31		6, 377, 478
Bowling alleys and accessories.....	15		3, 224, 764
<b>BOXES, CIGAR, WOODEN</b>			
Aggregate.....	(1)	Number 2 98, 371, 210	\$11, 723, 088
Size one-tenth (100 cigars).....	51	11, 058, 365	1, 401, 288
Size one-twentieth (50 cigars).....	102	67, 424, 955	7, 940, 379
Size one-fortieth (24 cigars).....	76	13, 028, 609	1, 532, 255
Size not specified and miscellaneous sizes.....	26	7, 359, 281	849, 166
<b>BOXES, WOODEN, EXCEPT CIGAR BOXES</b>			
Aggregate.....	(1)		\$197, 777, 731
Lumber, not wire-bound.....	1, 045		143, 197, 230
Panel, not wire-bound.....	219		30, 626, 935
Wire-bound.....	102		18, 037, 028
Kind not specified.....	89		5, 916, 538
<b>CASKETS, COFFINS, BURIAL CASES, AND OTHER MORTICIANS' GOODS</b>			
Aggregate.....	(1)		\$85, 173, 994
Caskets and coffins, total.....	2 335		62, 434, 456
Wooden, including metal-lined.....	326		45, 395, 072
Metal.....	101		17, 038, 784
Wooden shipping and outer cases.....	166		4, 723, 657
Metal grave vaults and shipping cases.....	71		5, 696, 438
Garments.....	97		4, 315, 816
Embalming fluids.....	46		2, 829, 505
Morticians' supplies.....	74		3, 775, 155
Morticians' goods and supplies not reported by kind.....	23		1, 398, 967

See footnotes on p. 52.

INDUSTRY GROUP 3.—FOREST PRODUCTS—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>COOPERAGE</b>			
Aggregate .....	(1)	-----	\$61,876,967
Barrels .....	469	-----	39,765,624
Tubs and pails .....	40	-----	7,596,002
Kegs .....	79	-----	8,595,410
Hogsheads .....	53	-----	1,561,698
Cooperage not reported by kind .....	50	-----	4,358,233
<b>CORK PRODUCTS</b>			
Aggregate .....	(1)	-----	\$23,656,117
Cork stoppers and bottle closures .....	28	-----	7,194,724
Cork insulation products, including tiling and flooring .....	7	-----	9,604,175
Cork specialties and cork products not reported separately .....	18	-----	6,857,218
<b>EXCELSIOR</b>			
Aggregate .....	(1)	-----	\$4,953,630
Excelsior produced for sale as such .....	67	-----	2,923,551
Excelsior pads and wrappers .....	22	-----	2,030,079
<b>FURNITURE</b>			
Aggregate .....	(1)	-----	\$912,942,006
Household furniture, wood, total .....	<sup>2</sup> 2,226	-----	611,680,810
Living room and library, total .....	<sup>2</sup> 1,483	-----	325,246,345
Suites, upholstered .....	607	-----	130,638,517
Suites, davenports, sofas, day beds, etc., not upholstered .....	55	-----	6,782,364
Davenports, sofas, day beds, etc., upholstered .....	269	-----	25,378,594
Chairs and rockers—		-----	
Upholstered .....	285	-----	30,235,987
Not upholstered .....	108	-----	5,679,433
Cabinets—		-----	
Radio .....	216	-----	69,551,079
Other and not specified .....	104	-----	<sup>5</sup> 9,876,265
Tables .....	283	-----	21,994,918
Desks .....	141	-----	7,122,952
Bookcases .....	90	-----	2,377,270
Other living-room and library furniture and such furniture not reported in detail .....	230	-----	<sup>6</sup> 15,308,975
Bedroom, total .....	<sup>2</sup> 525	-----	139,774,965
Suites .....	245	-----	75,498,637
Beds .....	203	-----	13,356,179
Dressers, vanity dressers, and dressing tables .....	197	-----	18,344,961
Chiffoniers, chifforobes, wardrobes, and chifforettes .....	188	-----	12,522,507
Cedar chests .....	42	-----	7,358,647
Chairs and benches .....	185	-----	6,099,339
Other bedroom furniture and such furniture not reported in detail .....	100	-----	<sup>7</sup> 6,594,695
Dining room, total .....	<sup>2</sup> 530	-----	88,551,571
Suites .....	184	-----	43,502,391
Chairs .....	194	-----	15,932,399
Breakfast sets (enameled or unfinished) .....	133	-----	10,638,570
Buffets, china closets, and servers .....	144	-----	9,557,781
Tables .....	188	-----	7,720,397
Other dining-room furniture and such furniture not reported in detail .....	45	-----	1,200,033
Kitchen, total .....	<sup>2</sup> 190	-----	21,123,016
Cabinets .....	67	-----	10,658,641
Chairs and stools .....	83	-----	5,609,813
Tables .....	94	-----	3,885,678
Other kitchen furniture and such furniture not reported in detail .....	22	-----	968,884

See footnotes on p. 52.

## INDUSTRY GROUP 3.—FOREST PRODUCTS—Continued

PRODUCT	Number of establishments	Quantity	Value
FURNITURE—Continued			
Household furniture, wood—Continued.			
Porch.....	69		\$3, 878, 449
Camp.....	33		3, 335, 878
Hall.....	96		1, 390, 460
Miscellaneous and not specified.....	288		28, 380, 126
Household furniture, metal, total.....			
Bedroom, total.....	<sup>2</sup> 136		30, 443, 464
Beds.....	<sup>2</sup> 79		17, 344, 113
Cribs.....	66		10, 995, 816
Other bedroom furniture and such furniture not reported in detail.....	19		499, 589
.....	5		5, 848, 708
Living room and library, total.....	24		3, 360, 128
Davenports, sofas, day beds, etc.—			
Upholstered.....	4		1, 507, 733
Not upholstered.....	11		889, 627
Tables.....	4		567, 265
Other living-room and library furniture and such furniture not reported in detail.....	5		395, 503
Kitchen, total.....	<sup>2</sup> 13		2, 421, 908
Cabinets.....	9		977, 722
Chairs and stools.....	5		393, 776
Tables.....	3		174, 037
Other kitchen furniture and such furniture not reported in detail.....	3		876, 323
Porch, total.....	<sup>2</sup> 9		2, 347, 303
Hammocks.....	7		1, 942, 675
Chairs and tables.....	4		288, 632
Benches and couches, and other porch furniture.....	5		115, 996
Camp, total.....	<sup>2</sup> 16		507, 077
Cots.....	11		232, 720
Chairs and tables, folding.....	5		203, 317
Other camp furniture and such furniture not reported in detail.....	10		71, 040
Dining room, hall, miscellaneous, and not specified.....	60		4, 472, 985
Household furniture, fiber, rattan, reed, and willow, total.....			
Living room and library, total.....	<sup>2</sup> 107		16, 899, 085
Suites.....	<sup>2</sup> 70		12, 523, 886
Upholstered.....	39		7, 383, 904
Not upholstered.....	8		602, 046
Chairs and rockers—			
Upholstered.....	36		2, 400, 720
Not upholstered.....	15		460, 802
Davenports, sofas, day beds, etc.—			
Upholstered.....	26		1, 039, 577
Not upholstered.....	11		204, 296
Tables.....	24		269, 444
Desks.....	11		62, 311
Other living-room and library furniture and such furniture not reported in detail.....	7		100, 787
Porch, total.....	<sup>2</sup> 42		3, 076, 045
Chairs.....	35		793, 911
Benches and couches.....	19		503, 377
Tables.....	18		220, 262
Swings.....	5		32, 801
Other porch furniture and such furniture not reported in detail.....	13		1, 525, 694
Dining room, total.....	<sup>2</sup> 8		57, 423
Chairs.....	4		10, 507
Tables.....	4		7, 304
Suites and breakfast sets.....	4		27, 086
Buffets, china closets, servers, and tea wagons.....	5		12, 576
Bedroom.....	7		31, 468
Miscellaneous and not specified above.....	26		1, 210, 213

See footnotes on p. 52.

INDUSTRY GROUP 3.—FOREST PRODUCTS—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>FURNITURE—Continued</b>			
Office furniture, total.....	2 287		\$75,664,067
Chairs—			
Wood.....	71	}	10 12,254,558
Metal.....	2		
Desks and tables—			
Wood.....	119	}	10 21,353,902
Metal.....	19		
Filing cabinets and cases—			
Wood.....	43	}	10 19,312,164
Metal.....	26		
Fiber, rattan, reed, and willow.....	1		
Other office furniture and such furniture not reported in detail—			
Wood.....	109	}	10 22,743,443
Metal.....	21		
Store and lunch-room furniture and fixtures, total.....	2 766		117,694,782
Shelving—			
Wood.....	158	}	10 17,136,990
Metal.....	16		
Counters, tables, partitions, window backs, show cases, wall cases, and cabinets—			
Wood.....	457	}	10 62,795,658
Metal.....	34		
Chairs and stools—			
Wood.....	48	}	10 1,595,547
Metal.....	6		
Fiber, rattan, reed, and willow.....	3		
Other store and lunch-room furniture and fixtures and such furniture and fixtures not reported in detail—			
Wood.....	258	}	10 11 36,166,587
Metal.....	75		
Professional, laboratory, hospital, barber, and beauty-parlor chairs, tables, cots, etc., total.....	109		14,283,174
Wood.....	56	}	10 14,283,174
Metal.....	51		
Fiber, rattan, reed, and willow.....	2		
Furniture for public buildings (schools, theaters, assembly halls, churches, libraries, etc.) and seats for public conveyances, total.....	2 195		41,043,744
Chairs—			
Wood.....	56	}	10 11,478,023
Metal.....	13		
Fiber, rattan, reed, and willow.....	2		
Church pews and pulpits.....	55		5,670,522
Desks—			
Wood.....	31	}	10 5,629,246
Metal.....	8		
Other furniture for public buildings and such furniture not reported in detail—			
Wood.....	99	}	10 12 18,265,053
Metal.....	30		
Fiber, rattan, reed, and willow.....	4		
Lockers, metal and wood.....	16		5,232,930

LASTS AND RELATED PRODUCTS

Aggregate.....	(1)		\$7,757,281
Lasts.....	57		6,749,728
Shoe-trees, shoe stretchers, shoe-display forms, etc.....	10		1,007,553

See footnotes on p. 52.

## INDUSTRY GROUP 3.—FOREST PRODUCTS—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>LUMBER AND TIMBER PRODUCTS, NOT ELSEWHERE CLASSIFIED</b> <sup>13</sup>			
Timber products, aggregate.....	(1)		<sup>14</sup> \$459, 622, 000
Logs and bolts.....	4, 792	<i>Thous. ft. log scale</i> 27, 782, 281	<sup>14</sup> 433, 013, 000
Other timber products.....			<sup>15</sup> 26, 609, 223
Sawmill products, total.....	<sup>16</sup> 20, 045		1, 160, 637, 193
Lumber.....		<i>Thous. ft. b. m.</i> 36, 886, 032	993, 738, 084
Laths.....	528	<i>Thous. pieces</i> 1, 705, 858	5, 902, 524
Shingles.....	493	6, 110, 672	18, 018, 588
Veneers, wood consumed in manufacture.....	588	<i>Thous. ft. log scale</i> 1, 112, 910	(17)
Tight staves.....	207	<i>Thousands</i> 357, 353	(17)
Tight heading.....	90	<i>Thous. of sets</i> 30, 329	(17)
Slack staves.....	280	<i>Thousands</i> 1, 039, 450	(17)
Slack heading.....	173	<i>Thous. of sets</i> 72, 591	(17)
Slack hoops.....	29	133, 054	(17)
Other sawmill products.....			<sup>18</sup> 142, 977, 997
<b>MATCHES</b>			
Aggregate.....	(1)	<i>Number</i>	\$20, 351, 025
Cases.....	11	2, 862, 149	8, 507, 280
Boxes, gross.....	3	14, 281, 756	7, 571, 743
Books, thousands.....	8	2, 505, 387	4, 272, 002
<b>MIRROR AND PICTURE FRAMES</b>			
Aggregate.....	(1)		\$18, 006, 151
Mirror and picture frames, total.....			
Wood.....	<sup>3</sup> 164		13, 735, 759
Metal.....	155		13, 152, 032
Other and not specified.....	14		466, 845
Other and not specified.....	10		110, 882
Mirror and picture-frame moldings, gilded or finished.....	47		3, 176, 564
Kind not specified.....	11		1, 093, 828
<b>PLANING-MILL PRODUCTS</b> <sup>13</sup>			
Aggregate.....	(1)		\$1, 038, 379, 634
Dressed lumber, including flooring, ceiling, partition, and siding.....	1, 381	<i>Thous. ft. b. m.</i> 17, 796, 042	493, 455, 763
Doors.....		<i>Number</i>	
Sash.....	1, 223	17, 231, 703	59, 315, 987
Window and door frames.....	1, 228	29, 125, 304	25, 282, 048
Plywood.....	1, 562	9, 175, 343	27, 698, 731
Portable and ready-cut houses.....	153		55, 085, 220
Tanks and vats.....	75		11, 575, 152
Silo stock.....	86		5, 187, 047
Miscellaneous millwork and millwork not reported by kind <sup>19</sup> .....	18		2, 478, 612
	3, 803		358, 301, 084

See footnotes on p. 52.

INDUSTRY GROUP 3.—FOREST PRODUCTS—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>PULP GOODS</b>			
[Principal products: Sheets, rods, tubes, containers, fabricated pieces and parts and dishes, and other vulcanized fiber and laminated phenolic (bakelite) and molded pulp products]			
(Commodities not reported in detail).....	45		\$27, 219, 892

**REFRIGERATORS AND REFRIGERATOR CABINETS, EXCLUSIVE OF MECHANICAL REFRIGERATING EQUIPMENT**

Aggregate.....	(1)		\$57, 438, 260
Domestic, total.....	2 77		30, 192, 838
Wood.....	65		18, 536, 037
Metal.....	27		10, 038, 513
Not specified.....	6		1, 618, 238
Commercial, total.....	2 235		26, 901, 605
Wood.....	213		21, 173, 291
Metal.....	31		5, 010, 193
Not specified.....	3		718, 121
Not reported by kind, total.....	2 7		348, 817
Wood.....	7		217, 076
Metal.....	3		102, 232
Not specified.....	4		24, 509

**TURPENTINE AND ROSIN (MADE FROM CRUDE GUM) <sup>13</sup>**

Aggregate.....	(1)		\$35, 790, 829
Spirits of turpentine.....	1, 183	Gallons <sup>20</sup> 31, 320, 871	<sup>21</sup> 13, 402, 403
Rosin.....	1, 183	Bbls. 500 lbs. <sup>20</sup> 1, 975, 631	<sup>21</sup> 22, 388, 426

**WINDOW AND DOOR SCREENS AND WEATHER STRIP**

Aggregate.....	(1)		\$28, 186, 570
Window and door screens.....	996		23, 032, 543
Weather strip.....	112		5, 154, 027

**WOOD PRESERVING <sup>13</sup>**

Aggregate.....	199		<sup>22</sup> \$16, 545, 232
Forest products owned by establishments reporting, selling value after treatment.....	(23)		116, 526, 964
Forest products not owned by establishments reporting:			
Estimated value before treatment.....	(23)		50, 443, 237
Amount received for treatment.....	(23)		23, 575, 031

See footnotes on p. 52.

## INDUSTRY GROUP 3.—FOREST PRODUCTS—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>WOOD TURNED AND SHAPED AND OTHER WOODEN GOODS, NOT ELSEWHERE CLASSIFIED</b>			
Aggregate.....	(1)		\$70,197,533
Handles, total.....	<sup>2</sup> 243		16,223,370
Tool and implement.....	182		11,526,381
Other.....	52		4,247,915
Not specified.....	17		449,574
Woodenware bowls, dishes, pastry boards, clothespins, ironing boards, clothes racks, washboards, etc.....	168		13,045,158
Textile-machinery turnings and shapes.....	94		6,490,967
Furniture turnings and shapes.....	134		7,612,176
Ladders and parts.....	66		5,345,167
Scaffolding equipment (other than ladders)—horses, scaffold jacks, extension planks, window jacks, etc.....	8		208,076
Vehicle stock.....	23		1,320,563
Toys, toy parts, and novelties, turned and shaped.....	81		3,053,391
Miscellaneous turned and shaped wooden goods, not specified.....	411		16,898,165

<sup>1</sup> The aggregate numbers of establishments—i. e., the sums of the several items for a given group of products—are not shown because such aggregates would greatly overstate the actual numbers of establishments reporting the groups of products in question. This condition arises because in practically all cases each establishment is engaged in the manufacture of more than one of the individual products or classes of products. The net numbers of establishments reporting the several groups of products are not shown by the census tabulations.

<sup>2</sup> Inasmuch as some establishments manufacture more than 1 kind of product, the totals in this column are smaller than the sum of the figures below them.

<sup>3</sup> Estimated in part.

<sup>4</sup> The figures in this column do not include data for establishments classified in other industries, which manufacture furniture as secondary products but did not report it in detail. The value of furniture made by them amounted to \$32,530,649.

<sup>5</sup> Sewing-machine cabinets, \$6,491,423; other and not specified, \$3,384,833.

<sup>6</sup> Piano benches and stools, \$974,546; unfinished frames for suites, chairs, etc., \$7,354,763; other and not specified, \$6,979,666.

<sup>7</sup> Cribs, \$2,206,290; other and not specified, \$4,388,405.

<sup>8</sup> Tea wagons, \$269,572; other and not specified, \$930,451.

<sup>9</sup> Includes data for household furniture belonging in above classes but not separately reported by manufacturers.

<sup>10</sup> Combined to avoid disclosing data for individual establishments.

<sup>11</sup> Includes data for commercial refrigerators made as secondary products.

<sup>12</sup> Includes value of seats for public conveyances; not shown separately to avoid disclosing production of individual establishments.

<sup>13</sup> The amounts under this heading represent products manufactured during the period covered, whether sold or not.

<sup>14</sup> The value of logs and bolts was estimated in part; therefore, these values and the total values are given in round thousands of dollars. The values of other timber products, however, were summarized as reported; consequently the details do not add to the total.

<sup>15</sup> Value of firewood, pulpwood, fence posts, poles, piles, masts and spars, hewed railroad ties, and other timber products as reported by manufacturers of lumber and timber products. This item does not include the value of similar products made by farmers or small timber operators and therefore represents only a small part of the total value of such products made in the United States.

<sup>16</sup> Number of mills reporting the production of 50,000 feet or more of lumber (many establishments operated more than 1 mill).

<sup>17</sup> Data not available.

<sup>18</sup> Value of veneer and cooperage stock (not including the amounts produced and consumed in the same mills reported by establishments classified in the lumber and timber products industry, and by those engaged primarily in the manufacture of such commodities as baskets, boxes, etc.) and other sawmill products reported by establishments in the lumber and timber products industry.

<sup>19</sup> Molding, inside trim, and general millwork not separately reported. Includes also values of miscellaneous millwork, normally belonging to other industries, made as secondary products by establishments engaged primarily in the manufacture of planing-mill products.

<sup>20</sup> Includes data for 322,988 gallons of turpentine and 22,373 barrels of rosin made for others.

<sup>21</sup> Does not include value of turpentine and rosin made for others.

<sup>22</sup> In addition, wood preserving to the value of \$401,281 was done by establishments classified in other industries.

<sup>23</sup> The net number of establishments reporting the several products is not shown by the census tabulations.

## INDUSTRY GROUP 4.—PAPER AND ALLIED PRODUCTS

[This table presents statistics for all commodities covered by the Census of Manufacturers classification, except those for which the figures must be withheld from publication in order to avoid disclosing, exactly or approximately, the data reported by individual establishments. (See sec. 7 of General Explanations)]

PRODUCT	Number of establishments	Quantity	Value
<b>CONVERTED PAPER PRODUCTS</b>			
Aggregate.....	(1)	-----	\$847,264,940
Bags, paper, total.....	2 155	-----	79,124,252
Kraft.....	94	-----	62,884,477
Other.....	73	-----	15,239,775
Bottle caps, paper.....	34	-----	5,523,755
Boxes and containers, paper and paper-board, total.....	2 1,331	-----	346,446,958
Shipping containers, corrugated.....	193	-----	97,959,494
Shipping containers, solid-fiber.....	88	-----	42,035,357
Cartons and folding boxes.....	340	-----	95,726,976
Set-up paper boxes.....	783	-----	85,582,513
Paper cans.....	86	-----	13,025,526
Decorated, lithographed, lacquered, and fancy-covered boxes.....	55	-----	6,600,125
Other boxes and containers.....	53	-----	5,718,997
Cards, cut and designed, total.....	2 76	-----	16,104,053
Index, library, etc., cards, plain.....	21	-----	3,640,527
Jacquard cards for textile-fabric machines.....	13	-----	476,304
Photograph mats, mounts, folders, etc.....	22	-----	5,222,592
Other.....	22	-----	6,764,630
Cardboard.....	18	-----	6,937,388
Coated book paper.....	35	-----	49,514,438
Confetti.....	5	-----	61,016
Crêpe paper.....	14	-----	5,008,664
Cups, paper.....	19	-----	10,713,637
Dishes, spoons, etc., paper.....	23	-----	6,113,115
Envelopes, total.....	2 184	-----	57,657,514
Writing.....	95	-----	22,128,063
Kraft.....	77	-----	9,539,711
Other.....	106	-----	25,989,735
Glazed and fancy paper.....	36	-----	10,575,103
Gummed paper and tape, total.....	2 27	-----	13,025,734
Gummed flat paper.....	9	-----	2,247,730
Gummed paper tape.....	27	-----	6,125,077
Gummed cloth tape.....	12	-----	4,652,927
Labels and tags.....	174	-----	3 80,897,857
Lace, paper.....	9	-----	2,152,334
Napkins, paper.....	36	-----	6,899,617
Papeteries.....	12	-----	17,459,242
Rolls, paper (for adding machines, etc.).....	19	-----	1,768,206
Tablets, total.....	2 12	-----	9,446,543
Book.....	3	-----	809,755
News.....	5	-----	2,232,570
Writing.....	10	-----	4,204,303
Other.....	4	-----	2,199,915
Toilet paper.....	52	-----	25,323,220
Towels, paper.....	29	-----	8,035,657
Tubes, paper-board.....	44	-----	6,087,140
Twisted paper (cord, twine, etc.).....	4	-----	424,782
Wall paper.....	56	-----	28,646,917
Waterproof wrapping paper.....	18	-----	3,254,295
Waxed paper.....	62	-----	35,464,088
Other converted paper and paper-board products.....	198	-----	64,599,400

See footnotes on p. 55.

## INDUSTRY GROUP 4.—PAPER AND ALLIED PRODUCTS—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>PAPER AND PAPER BOARDS<sup>5</sup></b>			
Aggregate.....	(1)	Short tons ° 11, 140, 235	° \$903, 301, 140
Newsprint, standard, in rolls and sheets.....	64	1, 409, 169	80, 706, 899
Hanging papers.....	22	101, 002	7, 293, 931
Catalogue.....	13	111, 771	9, 570, 858
Poster, novel, news tablets, lining, etc.....	24	150, 649	11, 743, 437
Book paper, total.....	° 87	1, 497, 912	168, 271, 655
Book papers.....	71	1, 176, 596	131, 852, 168
Lithograph.....	10	19, 877	2, 417, 196
Offset.....	17	26, 304	3, 847, 128
Body stock for coated paper.....	29	250, 234	26, 755, 587
Other book paper.....	10	24, 901	3, 399, 576
Cover paper.....	34	28, 072	6, 429, 856
Writing paper (fine), total.....	° 38	607, 590	113, 223, 595
100 per cent rag.....	29	17, 397	11, 143, 620
Less than 100 per cent to 50 per cent rag.....	31	40, 416	15, 072, 906
Less than 50 per cent rag.....	36	60, 806	15, 539, 771
Sulphite bond.....	48	284, 609	41, 724, 237
Other chemical wood-pulp writing paper.....	42	204, 362	23, 846, 061
Wrapping paper, total.....	° 162	1, 605, 783	163, 442, 382
For bags, total.....	° 19	181, 236	15, 720, 535
Sulphite.....	19	47, 002	4, 308, 885
Sulphate.....	13	134, 234	11, 411, 650
Unbleached sulphite wrapping.....	34	143, 568	13, 564, 782
Bleached sulphite wrapping.....	12	25, 207	3, 101, 407
Bogus and screenings.....	30	38, 529	2, 086, 111
Grease proof.....	8	7, 905	1, 607, 935
Glassine.....	13	47, 438	9, 736, 951
Heavy (mill wrappers, etc.).....	53	63, 238	3, 423, 423
Kraft, total.....	° 61	712, 234	63, 499, 471
Northern.....	40	375, 254	40, 530, 615
Pacific coast.....	7	54, 961	4, 847, 524
Southern.....	16	282, 019	23, 121, 332
Rope, jute, etc.....	23	62, 270	12, 075, 511
Ground wood and chemical manila.....	11	54, 893	4, 600, 729
Tag board, light manila board, and pattern.....	16	30, 616	3, 503, 586
Other wrapping paper.....	30	238, 589	25, 521, 956
Boards, total.....	° 245	4, 451, 187	227, 741, 517
Container boards, total.....	° 131	2, 255, 537	99, 162, 946
Liners.....	75	1, 108, 852	55, 212, 515
Chip (plain and test).....	99	785, 199	27, 865, 152
Straw (for corrugated-container use).....	34	361, 486	16, 085, 279
Folding box boards (bending), total.....	° 72	901, 285	53, 150, 020
Manila-lined (all lined boards).....	71	590, 523	30, 869, 321
Patent coated.....	32	182, 831	11, 195, 066
Other folding box boards (including shell and unlined boards).....	24	217, 931	11, 085, 633
Set-up box boards (nonbending), total.....	° 63	599, 665	23, 043, 907
Chip and straw.....	40	325, 111	11, 753, 491
Newsboard.....	51	189, 028	7, 430, 984
Other (including tube, egg-case filler, pasted news, and pasted chip boards).....	24	85, 526	3, 859, 432
Binders' board.....	19	64, 165	4, 075, 097
Cardboard.....	9	47, 233	4, 921, 690
Leather board.....	12	24, 228	2, 942, 498
Pressboard.....	8	11, 901	2, 480, 486
Other boards.....	64	457, 173	37, 304, 873
Tissue papers, total.....	° 73	387, 811	53, 300, 059
High grade.....	31	63, 834	15, 307, 089
Manila and No. 2 white.....	29	40, 691	5, 543, 375
Napkin.....	20	29, 536	4, 138, 515
Toilet.....	42	142, 725	15, 102, 952
Towel.....	22	52, 283	4, 903, 065
Waxing.....	20	58, 742	8, 305, 063

See footnotes on p. 55.

INDUSTRY GROUP 4.—PAPER AND ALLIED PRODUCTS—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>PAPER AND PAPER BOARDS</b> <sup>5</sup> —Continued			
Absorbent papers, total.....	2 28	<i>Short tons</i> 90,800	\$16,972,984
Blotting.....	10	14,125	2,828,427
Matrix.....	8	4,281	1,516,233
For vulcanized fiber.....	10	25,928	4,106,713
Other absorbent paper <sup>8</sup> .....	23	46,466	8,521,611
Building papers, total.....	2 52	659,178	39,375,990
Sheathing.....	27	52,205	2,214,947
Felts.....	39	540,166	32,544,935
Asbestos-filled and asbestos paper.....	11	66,807	4,616,108
Other paper.....	32	39,311	5,227,977

**PULP (WOOD AND OTHER FIBER)** <sup>6</sup>

	(1)	<i>Short tons</i>	
Aggregate.....		4,937,235	\$234,759,420
Wood pulp, total.....	2 190	4,862,885	223,178,096
Ground, steamed.....	19	163,238	6,605,759
Ground, not steamed.....	86	1,474,415	40,617,139
Soda fiber.....	26	520,729	34,064,784
Sulphite fiber, bleached.....	47	839,953	62,152,903
Sulphite fiber, unbleached.....	66	841,558	40,812,205
Sulphate fiber.....	35	918,084	37,173,860
Semichechemical <sup>9</sup> .....	6	40,481	797,645
Screenings, mechanical.....	6	11,459	144,718
Screenings, chemical.....	47	52,968	809,083
Other pulp <sup>10</sup> .....	6	74,350	11,581,324

<sup>1</sup> The aggregate numbers of establishments—i. e., the sums of the several items for a given group of products—are not shown because such aggregates would greatly overstate the actual numbers of establishments reporting the groups of products in question. This condition arises because in practically all cases each establishment is engaged in the manufacture of more than 1 of the individual products or classes of products. The net numbers of establishments reporting the several groups of products are not shown by the census tabulations.

<sup>2</sup> Inasmuch as some establishments manufacture more than 1 kind of product, the totals in this column are smaller than the sums of the figures below them.

<sup>3</sup> Paper, \$22,004,620; other specified materials, \$3,650,380; materials not specified, \$5,242,857.

<sup>4</sup> Includes (1) cigarette paper and playing cards, and converted roofing paper, which can not be shown separately without disclosing the production of individual establishments; and (2) miscellaneous paper products not specifically reported by kind.

<sup>5</sup> The amounts under this heading represent products manufactured during the period covered, whether sold or not.

<sup>6</sup> Includes data for paper and paper boards used in the manufacture of converted paper products in the plants producing the paper and paper boards, amounting to 1,196,384 tons, valued at \$86,276,477.

<sup>7</sup> "Sulphate for bags" should be included with "Kraft" in order to show the total kraft-paper production.

<sup>8</sup> "Filter paper," paper "for parchmentizing" etc.

<sup>9</sup> Figures include data for a small quantity of wood pulp not covered by items specified.

<sup>10</sup> Includes data for cottonseed-hull-fiber pulp, cotton linter pulp, rag pulp, and de-inked pulp.

## INDUSTRY GROUP 5.—PRINTING, PUBLISHING, AND ALLIED INDUSTRIES

[This table presents statistics for all commodities covered by the Census of Manufactures classification, except those for which the figures must be withheld from publication in order to avoid disclosing, exactly or approximately, the data reported by individual establishments. (See sec. 7 of General Explanations.)]

PRODUCT	Number of establishments	Quantity	Value
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### BOOKBINDING AND BLANK-BOOK MAKING

[This industry embraces establishments engaged primarily in the binding of books and pamphlets; manufacture of blank books, such as ledgers, account books, sales books, receipts, checks, loose-leaf devices, inventory and similar blanks, and indexes; and related work, such as paper ruling and cutting, embossing, paper and card etching, map and sample mounting, etc.]

(Commodities not reported in detail) .....	1, 108		\$ 102, 783, 405
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### ENGRAVERS' MATERIALS

[The establishments classified in this industry are engaged primarily in the preparation of boxwood for engravers' use, of cherry and maple for photo-engravers' mounts, and of steel, brass, copper, and zinc plates for the use of engravers, photo-engravers, and etchers; and in the grinding, finishing, and polishing of lithographic stone for the use of lithographers]

(Commodities not reported in detail) .....	19		\$3, 120, 483
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### ENGRAVING (OTHER THAN STEEL, COPPERPLATE, OR WOOD), CHASING, ETCHING, AND DIESINKING

[Principal products: Name plates, badges, signs, etc., and metal dies and stamps]

(Commodities not reported in detail) .....	189		\$10, 933, 741
--	-----	--	----------------

### ENGRAVING, STEEL AND COPPERPLATE, AND PLATE PRINTING

[The establishments classified in this industry are engaged primarily in engraving steel and copper plates for printing stationery, visiting and other cards, invitations, announcements, securities, bonds, stock certificates, music, maps, half tones, etc., and in printing from these plates]

(Commodities not reported in detail) .....	\$ 456		\$ 47, 161, 641
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### ENGRAVING, WOOD

This industry classification covers establishments engaged primarily in making woodcuts for use in printing illustrations, posters, etc.]

(Commodities not reported in detail) .....	27		\$ 738, 951
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### LITHOGRAPHING

[Principal products: Calendars, bank notes, commercial and bank forms, maps, picture post cards, advertising signs and pictures, billheads, circulars]

(Commodities not reported in detail) .....	376		\$121, 014, 321
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### PHOTO-ENGRAVING NOT DONE IN PRINTING ESTABLISHMENTS

[The establishments in this industry are engaged primarily in making photo-engraved plates for printing illustrations, art work, post cards, greeting cards, magazine covers, half-tone engravings, etc.]

(Commodities not reported in detail) .....	654		\$77, 382, 259
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See footnotes on p. 57.

INDUSTRY GROUP 5.—PRINTING, PUBLISHING, AND ALLIED INDUSTRIES—Contd.:

PRODUCT	Number of establishments	Quantity	Value
<b>PRINTING AND PUBLISHING <sup>1</sup></b>			
Aggregate.....	( <sup>2</sup> )		\$2,711,606,627
Newspapers and periodicals printed and published, or published only, total.....	11,524		1,530,564,823
Newspapers, total.....	8,598		1,073,119,362
Subscriptions and sales.....			275,781,131
Advertising.....			797,338,231
Periodicals other than newspapers, total.....	2,926		507,445,461
Subscriptions and sales.....			184,645,297
Advertising.....			322,900,164
Books and pamphlets printed and published, or published only.....	1,870		199,014,700
Commercial printing, total.....	<sup>3</sup> 20,076		902,523,490
General job printing.....	18,521		738,246,106
Newspapers and periodicals printed for publication by others <sup>4</sup> .....	1,482		71,520,971
Books and pamphlets printed for publication by others <sup>4</sup> .....	1,075		57,997,516
Composition sold to the trade.....	81		30,647,365
Ready prints.....	665		4,111,532
Sheet music and books of music.....	133		16,537,747
Paper patterns <sup>5</sup> .....	11		12,965,867

**PRINTING MATERIALS, NOT INCLUDING TYPE OR INK**

[Principal products: Composing rules and sticks, galleys, type cases, galley rollers, blocks, plate hooks, and locking devices]

(Commodities not reported in detail).....	84		\$8,579,006
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**STEREOTYPING AND ELECTROTYPING, NOT DONE IN PRINTING ESTABLISHMENTS**

[This industry classification embraces establishments engaged primarily in making stereotype and electrotype plates]

(Commodities not reported in detail).....	<sup>6</sup> 230		<sup>7</sup> \$35,617,297
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**TYPE FOUNDRY**

[Principal products: Metal type, including that for typewriters and adding machines; and brass rules, leads, slugs, and related items]

(Commodities not reported in detail).....	19		\$2,603,619
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<sup>1</sup> Includes value of other products made in industry but does not include receipts for bookbinding and blank-book making done as secondary activities in other industries. Actual value of bookbinding and blank-book making done in all manufacturing industries either as a major or a minor activity, \$123,026,635.

<sup>2</sup> Includes value of other products made in industry, but does not include receipts for engraving and plate printing done as secondary activities in other industries. Actual value of engraving, steel and copperplate, and plate printing done in all manufacturing industries, either as major or minor activities, \$52,533,988.

<sup>3</sup> Includes value of other products made in industry, but does not include receipts for wood engraving done as a secondary activity in other industries. Actual value of wood engraving done in all manufacturing industries, either as a major or a minor activity, \$910,652.

<sup>4</sup> The amounts under this heading represent products manufactured during the period covered, whether sold or not.

<sup>5</sup> The aggregate numbers of establishments—i. e., the sums of the several items for a given group of products—are not shown because such aggregates would greatly overstate the actual numbers of establishments reporting the groups of products in question. This condition arises because in practically all cases each establishment is engaged in the manufacture of more than one of the individual products or classes of products. The net numbers of establishments reporting the several groups of products are not shown by the census tabulations.

<sup>6</sup> Inasmuch as some establishments manufacture more than 1 kind of product, the totals in this column are smaller than the sum of the figures below them.

<sup>7</sup> The inclusion of the items for "Newspapers and periodicals printed for publication by others" and "Books and pamphlets printed for publication by others" results in duplication in the 1929 total value of products to the amount of \$129,518,487. These items represent amounts paid by publishers for work done for them by printing establishments operated by others, and consequently enter into both the production cost and "value of products" (receipts from subscriptions and sales and advertising) for newspapers and periodicals and books and pamphlets published but not printed by the same establishment.

<sup>8</sup> In addition, paper patterns, to the value of \$385,432, were reported by establishments classified in the "Paper goods, not elsewhere classified" industry.

<sup>9</sup> Includes value of other products made in industry, but does not include receipts for stereotyping and electrotyping done as secondary activities in other industries. Actual value of stereotyping and electrotyping done in all manufacturing industries, either as major or minor activities, \$40,827,102.

## INDUSTRY GROUP 6.—CHEMICALS AND ALLIED PRODUCTS

[This table presents statistics for all commodities covered by the Census of Manufactures classification, except those for which the figures must be withheld from publication in order to avoid disclosing, exactly or approximately, the data reported by individual establishments. (See sec. 7 of General Explanations)]

PRODUCT	Number of establishments	Quantity	Value
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### ALCOHOL, ETHYL, AND DISTILLED LIQUORS

[Principal products: Ethyl (grain) alcohol, pure or denatured]

(Commodities not reported in detail) .....	30		\$54, 284, 665
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### AMMUNITION AND RELATED PRODUCTS

Aggregate.....	(1)		\$44, 898, 558
Ammunition, total.....	2 11		31, 635, 864
Paper shells, loaded.....	5		21, 663, 280
Cartridges, total.....	2 5		9, 382, 645
Rifle.....	5		6, 814, 060
Revolver and pistol.....	4		2, 568, 585
Other.....	9		630, 939
Blasting and detonating caps and railroad torpedoes.....	8		9, 169, 905
Safety fuses, miners' squibs, etc.....	11		4, 042, 789

### BAKING POWDERS, YEAST, AND OTHER LEAVENING COMPOUNDS

[Principal products: Baking powders, yeast, and other compounds used for leavening purposes]

(Commodities not reported in detail) .....	48		\$52, 336, 812
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### BLACKING, STAINS, AND DRESSINGS

[Principal products: Blackings, stains, polishes (including stove polish), dressings, etc., for leather, boots and shoes, automobile tops, and the like]

(Commodities not reported in detail) .....	170		\$24, 681, 836
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### BLUING

[Principal product: Laundry bluing, soluble and liquid]

(Commodities not reported in detail) .....	20		\$1, 364, 510
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### BONE BLACK, CARBON BLACK, AND LAMPBLACK

Aggregate.....	(1)	Pounds	\$20, 703, 698
Carbon black.....	71	4 283, 806, 000	4 17, 023, 360
Bone black.....	6	54, 277, 051	2, 490, 090
Lampblack.....	6	10, 765, 492	1, 185, 248

See footnotes on p. 70.

INDUSTRY GROUP 6.—CHEMICALS AND ALLIED PRODUCTS—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>CANDLES</b>			
[Principal products: Candles of tallow, paraffin, stearin, or wax]			
(Commodities not reported in detail) .....	20		\$ 6,686,194

**CHEMICALS, NOT ELSEWHERE CLASSIFIED <sup>1</sup>**

PRODUCT	(1)	Pounds	Value
Aggregate .....			\$778,492,181
Acids, total .....	(1)		98,619,871
*Acetic, total .....	17		6,890,411
Dilute, total <sup>2</sup> .....	(3)	72,737,771	
Made and consumed .....		19,822,964	
For sale .....		52,914,807	5,487,427
Glacial, for sale .....	(3)	13,449,259	1,402,984
Boric (boracic) .....	7	26,055,132	1,541,360
Carbonic (carbon dioxide, CO <sub>2</sub> ) .....	54	136,930,311	6,931,735
Chromic .....	8	4,211,605	710,272
*Citric .....	5	10,765,798	4,832,984
Hydrochloric (muriatic), total .....	33	<i>Short tons</i>	
Made and consumed .....		237,857	
For sale .....		61,379	
For sale .....		196,478	3,195,415
Mixed (sulphuric-nitric), total .....	36	184,163	
Made and consumed .....		120,442	
For sale .....		63,721	4,214,433
Nitric, total .....	48	180,253	
Made and consumed .....		125,372	
For sale .....		34,881	3,494,577
*Oleic .....	13	<i>Pounds</i>	
*Phosphoric .....	9	56,947,501	5,374,587
*Stearic .....	12	34,673,982	2,073,066
.....		39,153,726	5,488,320
Sulphuric (basis 50° Baumé), total .....	170	<i>Short tons</i>	
Made and consumed .....		8,491,114	
For sale .....		2,674,949	
For sale .....		5,816,165	45,573,245
Sulphuric, reclaimed (basis 50° Baumé), total .....	69	980,626	
Made and consumed .....		599,470	
For sale .....		381,156	1,389,340
*Tannic .....	4	<i>Pounds</i>	
* Tartaric .....	4	1,449,375	503,567
Other inorganic acids .....		4,906,479	2,059,680
*Other organic acids .....			9,961,885
.....			10,384,994
Nitrogen and fixed-nitrogen compounds, total .....	(1)		34,842,222
Ammonium group—			
Ammonia, aqua and ammonia, liquor .....	11	11,30,200,074	1,784,212
Ammonia, anhydrous .....	16	173,349,355	10,673,234
Ammonium sulphate .....	10	11,852,867	240,391
Ammonium iodide .....	5	7,840	40,692
Other ammonium compounds .....			12,3,225,600
Cyanogen compounds—			
Ferric ferrocyanide (Prussian blue) .....	21	4,803,419	1,446,456
Sodium and potassium ferrocyanides and sodium, silver and other cyanides and hydrocyanic acid .....	17		6,336,719
Nitrous oxide (laughing gas) .....	9	<i>Thous. gals.</i>	
.....		109,812	1,196,392
Other nitrogen compounds and gaseous nitrogen .....			13,9,898,626

See footnotes on p. 70.

## INDUSTRY GROUP 6.—CHEMICALS AND ALLIED PRODUCTS—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>CHEMICALS, NOT ELSEWHERE CLASSIFIED <sup>a</sup>—Continued</b>			
Sodium compounds, total.....	(1)		\$137,654,863
		<i>Pounds</i>	
*Acetate.....	7	592,253	32,846
*Benzoate.....	5	868,141	349,318
		<i>Tons</i>	
Bichromate and chromate.....	8	39,301	5,137,346
Borate (borax).....	8	92,250	3,279,640
Carbonates—		<i>Short tons</i>	
Bicarbonate, refined.....	5	140,284	4,062,074
Sal soda.....	19	87,850	1,522,895
Soda ash, total.....	14	2,682,216	-----
Made and consumed.....		868,360	-----
For sale.....		1,813,856	34,648,657
Modified sodas—			
Soda ash and caustic.....	6	9,935	632,280
Soda ash and bicarbonate.....	7	49,219	1,150,783
Caustic (hydroxide)—			
Primary production, total <sup>14</sup> .....	26	761,792	-----
Made and consumed.....		37,118	-----
For sale.....		724,674	36,089,264
Caustic, repacked (purchased in bulk).....	6	17,474	3,011,573
*Citrate.....	4	<i>Pounds</i>	
		1,432,482	544,570
		<i>Short tons</i>	
Hypochlorite.....	20	26,772	2,015,817
		<i>Pounds</i>	
Iodide.....	6	49,796	214,900
Phosphates—		<i>Short tons</i>	
Tribasic.....	14	82,045	5,008,815
Monobasic, dibasic, and not specified.....		64,134	3,955,723
Silicate (basis 40°).....	23	590,277	7,179,397
Silicofluoride.....	7	2,278	228,093
Sulphates—			
Niter cake (bisulphate), total.....	46	111,522	-----
Made and consumed.....		23,839	-----
For sale.....		82,683	1,023,136
Salt cake, total.....	28	206,612	-----
Made and consumed.....		36,436	-----
For sale.....		170,176	2,014,838
Glauber's salt.....	20	61,953	1,112,267
Hyposulphite (thiosulphate).....	7	25,020	906,369
Sulphide, total.....	18	36,463	-----
Made and consumed.....		3,431	-----
For sale.....		33,032	1,406,606
Sulphite (normal).....	6	5,970	462,072
Other inorganic sodium compounds.....			<sup>15</sup> 15,368,051
*Other organic sodium compounds.....			<sup>16</sup> 5,697,473
Potassium compounds, total.....	(1)		9,998,054
		<i>Pounds</i>	
Bitartrate (cream of tartar).....	7	7,852,559	1,930,577
Citrate.....	5	151,074	80,701
Iodide.....	7	443,557	1,487,166
Hydroxide.....	3	7,191	637,977
Other—			
Inorganic.....			<sup>17</sup> 4,543,802
*Organic.....			<sup>18</sup> 1,317,831
Alums and other aluminum compounds, total.....	(1)		15,948,773
		<i>Short tons</i>	
Alums, total.....	<sup>2</sup> 33	369,076	9,388,447
Aluminum sulphate (concentrated alum).....	27	344,962	8,038,730
Ammonia alum.....	6	5,720	286,772
Soda alum.....	3	14,947	848,299
Potash and chrome alums.....	7	3,447	214,646
Aluminous abrasives.....	4	33,246	3,446,116
Aluminum chloride (crystals and solutions).....	7	<sup>19</sup> 1,521	<sup>19</sup> 225,184
Aluminum stearate.....	6	1,066	440,180
Other aluminum compounds.....			<sup>20</sup> 2,448,846

See footnotes on p. 70.

INDUSTRY GROUP 6.—CHEMICALS AND ALLIED PRODUCTS—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>CHEMICALS, NOT ELSEWHERE CLASSIFIED</b> ←Continued			
Coal-tar products, total.....	(1)		\$130,651,757
Crudes <sup>21</sup> .....	53		26,370,143
Intermediates.....	57		25,593,686
Dyes and other finished products.....	140		78,687,928
Plastics, total.....	(1)		40,531,257
Pyroxylin—		<i>Pounds</i>	
Plastics, total.....	10	25,283,235	
Made and consumed.....		4,856,625	
For sale, in form for further manufacture.....		20,426,610	18,063,154
Finished articles of pyroxylin, made in the producing establishments <sup>22</sup> .....	10		10,522,214
Rubber substitutes.....	8	9,923,231	1,003,371
Other plastics.....			<sup>23</sup> 10,942,518
Miscellaneous chemicals, total.....	(1)		310,245,384
*Alcohols (butyl, synthetic, methanol, etc.) <sup>24</sup> .....	27		11,840,877
*Amyl acetate, total.....	11	<i>Gallons</i>	
Made and consumed.....		278,292	
For sale.....		97,089	
		181,203	312,898
Antimony—		<i>Pounds</i>	
Chloride.....	6	261,959	42,565
Other salts and compounds.....			508,617
Arsenic—			
Oxides, total.....	7	42,926,400	
Made and consumed.....		14,283,784	
For sale.....		28,642,616	851,858
Arsenate of calcium.....	16	33,064,426	1,859,735
Arsenate of lead.....	20	30,682,379	3,523,427
Other (magnesium arsenate, sodium arsenate, etc.).....	8		107,819
Barium—			
Sulphate, precipitated (blanc fixe).....	12	26,049,893	958,446
Carbonate.....	7	22,351,172	648,617
Other (chloride, dioxide, sulphide, etc.).....	31		626,900
Bismuth—			
Subnitrate.....	5	280,454	465,982
Subcarbonate.....	5	140,391	304,972
Subgallate.....	5	22,946	54,899
Other (subsalcylate, oxychloride, etc.).....	15		71,786
*Butyl acetate, total.....	11	<i>Gallons</i>	
Made and consumed.....		5,962,562	
For sale.....		1,438,699	
		4,523,863	5,680,155
Cadmium salts and compounds.....	13		128,809
Calcium—		<i>Short tons</i>	
Acetate.....	49	58,163	4,695,449
Chloride.....	18	277,010	5,947,281
Phosphates.....	8	38,139	5,557,454
Hypochlorite.....	15	93,116	3,350,537
Satin, white (calcium sulphate and alumina).....	4	21,007	532,285
Sulphate.....	3	3,889	185,998
Other (carbide, citrate, etc.).....			14,009,514
*Carbon bisulphide.....	10	<i>Pounds</i>	2,859,584
*Carbon tetrachloride.....	3	71,009,798	1,728,034
*Cerium salts and compounds.....	6	32,712,749	239,690
*Chloroform.....	5	3,081,920	595,759
Chromium compounds, other than sodium and potassium.....	12		150,836
Cobalt compounds and salts.....	(2)		769,586
Copper—			
Sulphate (blue vitriol).....	13	78,669,112	4,944,538
Carbonate.....	7	675,436	123,202
Oxide.....	5	825,280	170,778
Other (chloride, cyanide, nitrate, oleate, etc.).....			354,029

See footnotes on p. 70.

## INDUSTRY GROUP 6.—CHEMICALS AND ALLIED PRODUCTS—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>CHEMICALS, NOT ELSEWHERE CLASSIFIED <sup>a</sup>—Continued</b>			
Miscellaneous chemicals—Continued.			
*Ether, total.....	6	<i>Pounds</i> 7, 026, 049	-----
Made and consumed.....		562, 497	-----
For sale.....		6, 463, 552	\$1, 897, 19 <sup>4</sup>
*Ethyl acetate, total.....	14	<i>Gallons</i> 14, 100, 402	-----
Made and consumed.....		3, 168, 177	-----
For sale.....		10, 932, 225	9, 006, 914
*Geraniol.....	6	<i>Pounds</i> 94, 743	244, 650
*Glycerin—			
Crude <sup>25</sup> .....	48	28, 789, 974	2, 358, 031
Refined, total.....	26	138, 437, 150	-----
Made and consumed.....		25, 347, 075	-----
For sale.....		113, 140, 075	12, 715, 641
Gold chloride.....	6	<i>Ounces</i> 6, 016	73, 008
Other gold salts and compounds.....			462, 771
Hydrogen peroxide.....	10	<i>Pounds</i> <sup>26</sup> 8, 508, 649	2, 371, 781
Iodine, resublimed.....	7	87, 102	412, 444
Iron—			
Chloride (crystals and solutions).....	7	5, 941, 289	292, 515
Sulphate (copperas).....	28	<i>Short tons</i> 56, 047	553, 604
Ferro-alloys (electric furnace) <sup>27</sup> .....	19	246, 859	28, 655, 447
Other salts and compounds.....			1, 438, 555
Lead—			
Acetate.....	6	2, 084, 364	265, 753
Other (not including pigments).....			186, 736
Magnesium—			
Sulphate (Epsom salt).....	8	36, 983	1, 404, 978
Other salts and compounds.....			1, 125, 756
Manganese—			
Dioxide.....	4	<i>Pounds</i> 2, 479, 648	64, 547
Resinate.....	3	854, 652	99, 883
Other salts and compounds.....			201, 122
Mercury—			
Chloride, mercuric (corrosive sublimate).....	5	375, 034	606, 512
Chloride, mercurous (calomel).....	5	150, 725	315, 099
Other salts and compounds.....			635, 172
*Methyl acetone.....	7	4, 675, 140	574, 736
Nickel salts and compounds.....	11		1, 218, 028
Silver—			
Nitrate.....	5	<i>Ounces</i> 5, 646, 749	2, 015, 936
Other salts and compounds.....			88, 385
Strontium salts and compounds.....	8		198, 171
Sulphur—			
Refined.....	14	<i>Short tons</i> 78, 119	3, 069, 002
Chloride, yellow and red.....	4	<i>Pounds</i> 17, 827, 108	312, 228
Sulphur-lime—			
Dry.....	9	<i>Short tons</i> 7, 203	602, 762
Solution.....	50	<i>Gallons</i> 11, 973, 877	1, 446, 026
Tin salts and compounds.....	17		13, 111, 529

See footnotes on p. 70.

INDUSTRY GROUP 6.—CHEMICALS AND ALLIED PRODUCTS—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>CHEMICALS, NOT ELSEWHERE CLASSIFIED<sup>a</sup>—Continued</b>			
Miscellaneous chemicals—Continued.			
*Vanillin.....	5	<i>Pounds</i> 317, 355	\$1, 858, 228
Vitreous enamels.....	( <sup>b</sup> )		28 4, 512, 183
Zinc—			
Chloride.....	12	77, 232, 392	1, 618, 774
Sulphate.....	7	24, 903, 841	698, 092
Stearate.....	6	1, 454, 797	320, 293
Other salts and compounds.....			473, 786
Other elements, compounds, and salts—			
Inorganic—			
Metals and alloys (aluminum, sodium, titanium, magnesium, zirconium, etc.); calcined bauxite, and compounds and salts of molybdenum, silicon, phosphorus, vanadium, lithium, etc.....	( <sup>b</sup> )		85, 746, 613
*Organic <sup>20</sup> —			
Nitrocellulose, tetraethyl lead, acetone, ethylene glycol, formaldehyde, ethyl chloride, etc.....	( <sup>b</sup> )		53, 402, 573

**CLEANING AND POLISHING PREPARATIONS**

Aggregate.....	( <sup>1</sup> )		\$61, 433, 418
Cleaning preparations.....	543		43, 525, 055
Metal polish.....	166		4, 071, 094
Other polishing preparations.....	261		13, 837, 269

**COMPRESSED AND LIQUEFIED GASES**

Aggregate.....	( <sup>1</sup> )		\$71, 292, 919
Ammonia, anhydrous <sup>20</sup> .....	16	<i>Pounds</i> 173, 349, 355	10, 673, 234
Carbon dioxide (carbonic acid).....	54	136, 830, 311	6, 931, 735
Chlorine, total <sup>21</sup> .....	20	388, 943, 703	
Made and consumed.....		109, 088, 853	
For sale.....		289, 854, 850	7, 113, 091
Hydrogen.....	44	<i>1,000 cu. ft.</i> 207, 843	1, 423, 456
Oxygen.....	178	3, 140, 095	23, 409, 606
Nitrous oxide.....	9	<i>1,000 gals.</i> 100, 812	1, 196, 392
Sulphur dioxide.....	4	<i>Pounds</i> 17, 600, 936	973, 596
Hydrocarbon gases:		<i>1,000 cu. ft.</i>	
Acetylene.....	104	969, 534	16, 553, 763
Pintsch gas.....	32	118, 887	958, 315
Other hydrocarbon gases.....			1, 488, 881
All other gases <sup>22</sup> .....			570, 850

See footnotes on p. 70.

## INDUSTRY GROUP 6.—CHEMICALS AND ALLIED PRODUCTS—Continued

PRODUCT	Number of establishments	Quantity	Value
Aggregate.....	(1)		\$640,431,475
Druggists' preparations, total.....	<sup>2</sup> 648		124,939,010
Alkaloids and derivatives, total.....	47		8,029,633
		<i>Pounds</i>	
Caffeine.....	8	442,226	1,104,337
Codein.....	4	14,058	1,986,370
Morphine.....	4	8,075	1,030,864
Other (nicotine, quinine, strychnine, etc.).....	31		3,868,056
Biological products, total.....	<sup>2</sup> 92		16,860,104
Antitoxins—			
For human use.....	8		2,916,918
For animal use.....	8		635,070
Bacterins—			
For human use.....	12		808,711
For animal use.....	19		776,795
Serums—			
For human use.....	8		673,055
For animal use.....	62		6,802,638
Vaccines—			
For human use.....	9		1,091,812
For animal use.....	13		561,874
Viruses—			
For human use.....	6		340,734
For animal use.....	40		908,707
Undistributed (not reported by kind)—			
For human use.....	14		1,285,594
For animal use.....	4		48,160
Other druggists' preparations (not patent or proprietary)—			
Tinctures, fluid extracts, medicinal sirups, and other liquid preparations, not otherwise accounted for.....	304		49,486,489
Pills, tablets, powders, etc., not otherwise accounted for.....	343		46,184,113
Pharmaceutical metals and their salts.....	60		4,438,007
Patent or proprietary medicines, total.....	<sup>1</sup> 1,025		211,840,222
For sale to general public:			
Containing narcotic drugs (opium, codein, morphine, heroin, or cocaine).....	38		331,815
Not containing narcotic drugs.....	888		154,567,308
Ethical specialties (dispensed on physicians' prescriptions or through physicians)—			
Containing narcotic drugs (opium, codein, morphine, heroin, or cocaine).....	52		2,149,863
Not containing narcotic drugs, total.....	<sup>2</sup> 179		54,791,236
Synthetic chemicals, medicinal.....	30		8,456,059
Gland products.....	36		7,021,428
Vitamin preparations.....	19		4,438,709
Other.....	131		39,829,930
Patent or proprietary compounds, total.....	<sup>2</sup> 1,134		101,913,089
Antiseptics.....	160		21,799,004
Deodorants, total.....	<sup>2</sup> 107		5,032,968
Liquid.....	55	10,870,570	3,450,856
Block and crystal.....	55	1,503,122	961,104
Powder.....	16	1,937,393	370,319
Other.....	21	638,349	250,689
Germicides.....	44		2,482,798
Disinfectants, insecticides, and fungicides:			
Disinfectants, total.....	<sup>2</sup> 169		7,331,787
Coal-tar.....	80	21,773,790	4,637,106
Pine oil.....	46	1,831,653	426,874
Chloride of lime and chlorine products.....	20	2,835,904	536,424
Other.....	35	11,280,930	1,731,383

See footnotes on p. 70.

INDUSTRY GROUP 6.—CHEMICALS AND ALLIED PRODUCTS—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>DRUGGISTS' PREPARATIONS; PATENT OR PROPRIETARY MEDICINES AND COMPOUNDS; PERFUMES, COSMETICS, AND OTHER TOILET PREPARATIONS—Continued</b>			
Patent or proprietary compounds—Continued.			
Disinfectants, insecticides and fungicides—Continued.			
Household insecticides, total	325	<i>Pounds</i>	\$15,077,107
Sprays, fly	161	36,685,374	9,322,578
Insect powder (Pyrethrum)	59	5,542,498	2,446,524
Fluoride powders and mixtures	38	700,345	385,199
Moth repellants	47	2,364,401	799,774
Other	112	8,954,579	2,123,032
Disinfectants and household insecticides not reported by kind	95		3,345,314
Agricultural insecticides and fungicides <sup>31</sup>	125		10,339,835
Boiler compounds	76		5,083,950
Household ammonia	56		1,253,149
Other compounds	267		30,167,177
Perfumes, cosmetics, and other toilet preparations, total	1,066		201,689,154
Perfumes	343		19,107,844
Toilet waters	316		8,264,132
Creams	440		33,347,464
Rouges	156		12,308,969
Dentifrices	124		32,463,698
Hair dyes	51		3,327,259
Hair tonics	203		10,339,232
Face powders	286		24,037,625
Talcum powders	211		8,343,697
Other toilet powders	75		2,340,008
Depilatories	36		1,551,633
Shampoos	218		5,796,526
Other toilet preparations	515		40,371,067

DRUG GRINDING

[The establishments in this industry are engaged primarily in grinding drugs, charcoal, herbs, gum, licorice, and other roots, etc.]

(Commodities not reported in detail)	26	\$9,669,220
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EXPLOSIVES

	(1)	<i>Pounds</i>	
Aggregate		537,362,602	\$62,953,053
Dynamite	28	306,147,401	36,989,032
Permissible explosives	24	70,608,408	8,375,355
Nitroglycerin, total	80	84,544,291	
Consumed in works where produced		81,090,919	
Consumed in shooting wells		2,966,882	2,319,173
Amount received for shooting wells on contract			127,711
Sold as such		486,480	
Blasting powder	29	<i>Keys—25 lbs.</i> 4,826,696	7,750,000
Gun powder, black	6	<i>Pounds</i> 1,081,515	231,384
Smokeless powder	5	6,515,972	4,537,668
Fuse powder	5	2,270,258	426,914
Other explosives	9	26,518,288	2,195,816

See footnotes on p. 70.

## INDUSTRY GROUP 6.—CHEMICALS AND ALLIED PRODUCTS—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>FERTILIZERS <sup>6</sup></b>			
Aggregate.....	(1)	<i>Short tons</i> 9, 320, 229	\$222, 731, 116
Complete fertilizers.....	721	5, 991, 780	168, 838, 463
Superphosphates, including concentrated phosphates, total.....	162	4, 133, 134	28, 375, 184
For sale.....		<sup>34</sup> 2, 531, 230	
Made and consumed.....		<sup>35</sup> 1, 601, 904	
Fish scrap.....	79	84, 711	3, 244, 632
Potash superphosphate.....	177	211, 293	4, 854, 365
Bone meal.....	68	39, 548	1, 544, 051
Other fertilizers.....	186	461, 667	15, 874, 418
<b>FIREWORKS</b>			
[This industry embraces establishments engaged primarily in the manufacture of fireworks of all kinds, such as toy torpedoes, bombs, shells, pinwheels, torches, rockets, sparklers, firecrackers, and set pieces]			
(Commodities not reported in detail).....	50		\$6, 583, 502
<b>GLUE AND GELATIN <sup>6</sup></b>			
Aggregate.....	(1)	<i>Pounds</i> 272, 602, 953	\$32, 196, 158
Glue:			
Animal.....	49	106, 380, 612	15, 141, 433
Vegetable.....	23	133, 152, 385	6, 141, 686
Casein.....	11	2, 652, 840	425, 035
Flexible, including fish.....	23	10, 281, 013	2, 430, 519
Gelatin:			
Edible.....	12	18, 423, 304	7, 514, 483
Inedible.....	10	1, 712, 799	542, 997
<b>GREASE AND TALLOW (NOT INCLUDING LUBRICATING GREASES)</b>			
Aggregate.....	(1)		\$96, 861, 914
Grease (including soap stock).....	563		26, 292, 884
Tallow.....	605	217, 524, 395	41, 579, 565
Other products.....	295		28, 989, 465
<b>INK, PRINTING</b>			
[Principal products: Printers' inks of various colors, gold and bronze inks, and lithographer's inks]			
(Commodities not reported in detail).....	147		\$42, 749, 992
<b>INK, WRITING</b>			
[Principal products: Writing inks and fluids]			
(Commodities not reported in detail).....	29		\$4, 594, 974
<b>LIQUORS, VINOUS</b>			
[Principal products: Sacramental and medicinal wines, made chiefly from grapes]			
(Commodities not reported in detail).....	24		<sup>36</sup> \$2, 447, 912

INDUSTRY GROUP 6.—CHEMICALS AND ALLIED PRODUCTS—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>MUCILAGE, PASTE, AND OTHER ADHESIVES, EXCEPT GLUE AND RUBBER CEMENT</b>			
[Principal products: Sticking and gumming preparations, sealing wax, furniture and leather cement, etc.]			
(Commodities not reported in detail) .....	84		\$ 6,635,387

**OIL, CAKE, AND MEAL, COTTONSEED<sup>23</sup>**

Cottonseed, crushed.....	(9)	<i>Short tons</i> 3,061,058	
Crude cottonseed products, total.....	(2)		\$265,247,000
Oil.....	(9)	<i>Pounds</i> 1,004,131,038	133,066,000
Cake and meal.....	(8)	<i>Short tons</i> 2,281,575	90,706,000
Hulls.....	(9)	1,368,273	12,842,000
Linters.....	(8)	<i>Bales</i> 1,085,766	27,793,000
Cottonseed oil, cake and meal industry, total value of products <sup>23</sup> .....	553		298,578,000

**OIL, CAKE, AND MEAL, LINSEED**

Aggregate.....	(1)		\$111,687,741
Oil.....	27	<i>Pounds</i> 803,868,106	75,340,611
Cake and meal.....	26	<i>Tons</i> 752,110	36,347,130

**OILS, ESSENTIAL**

[This industry consists in the distillation and refining of natural essential oils and of witch-hazel extract]

(Commodities not reported in detail) .....	22		\$6,653,353
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**OILS, NOT ELSEWHERE CLASSIFIED**

[Principal products: Animal and vegetable oils, such as castor, oleo, fish and whale, neat's-foot, osseous, wool, palm, and lard; compounded and blended animal, mineral, and vegetable oils for lubricating and other purposes]

(Commodities not reported in detail) .....	75		\$45,159,825
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**PAINTS AND VARNISHES**

Aggregate.....	(1)		\$574,870,583
Pigments (colors) for sale, total.....	2 142	<i>Pounds</i> 1,918,458,961	116,751,604
White lead, dry.....	20	150,364,563	32,306,028
Lead oxide.....	18	163,736,000	12,564,987
Litharge.....	15	94,275,832	8,174,314
Red lead.....	8	4,067,401	346,112
Other lead oxides.....	21	438,714,982	26,563,248
Zinc oxide.....	12	410,638,583	19,290,956
Lithopone.....	18	105,627,130	3,374,800
Iron oxides (ochre, sienna, umber, etc.).....	7	17,263,000	254,373
Other mineral colors.....	22	16,399,298	2,392,790
Chrome yellow.....	18	3,354,493	1,449,639
Chrome orange.....	25	16,351,788	2,603,235
Chrome green.....			

See footnotes on p. 70.

## INDUSTRY GROUP 6.—CHEMICALS AND ALLIED PRODUCTS—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>PAINTS AND VARNISHES—Continued</b>			
<b>Pigments (colors) for sale—Continued.</b>			
Prussian blue.....	20	<i>Pounds</i> 5,359,419	\$1,612,517
Ultramarine.....	5	9,111,994	1,314,616
Vermilion (true).....	4	202,933	326,769
Other fine colors.....	29	7,933,609	5,052,317
Mortar colors.....	15	41,486,166	781,471
Whiting.....	16	202,207,936	1,513,634
Other dry colors (including barytes).....	56	211,161,362	14,697,886
Pulp colors, sold moist.....	16	15,612,502	1,389,690
<b>Paints, total.....</b>	<b>2 774</b>		<b>232,000,991</b>
<b>In paste form, total.....</b>	<b>2 434</b>	401,546,094	46,665,995
White lead in oil.....	74	232,938,353	24,591,819
Combination whites.....	173	61,762,830	5,660,990
Red lead in oil.....	33	6,980,118	905,146
Zinc oxide in oil.....	62	4,450,208	486,317
Colors in oil.....	289	33,194,913	6,900,814
Colors in japan.....	62	2,635,976	1,012,843
Other paints in paste form.....	226	59,583,696	7,108,566
Water paints and kalsomines, dry and in paste form.....	64	155,810,548	7,093,017
<b>Mixed, ready for use, total.....</b>	<b>2 734</b>	<i>Gallons</i> 106,165,398	<b>178,241,979</b>
Paints in oil.....	614	53,054,219	96,732,014
Undercoatings and primers.....	364	12,059,640	17,315,189
Wall paints and mill whites, flat and gloss.....	434	19,400,773	31,946,834
Other ready-mixed and semipaste paints.....	389	21,650,766	32,247,942
<b>Varnishes, japans, and lacquers (including enamels), total.....</b>	<b>2 668</b>		<b>204,881,402</b>
Oleoresinous varnishes.....	339	38,843,280	47,740,393
Spirit varnishes, not turpentine.....	211	7,379,820	13,534,920
Varnishes, other than oleoresinous and spirit.....	150	8,476,268	10,613,279
<b>Pyroxylin products—</b>			
Clear lacquers.....	185	9,938,501	19,178,070
Lacquers enamels.....	185	15,150,807	38,555,226
Thinners for pyroxylin lacquers.....	202	17,870,548	19,151,462
Other pyroxylin products.....	53		5,450,569
Drying japans and driers.....	182	5,187,797	4,057,582
Baking japans.....	77	4,039,344	3,480,555
Enamels, oil and varnish base.....	353	19,987,299	40,198,070
Allied products <sup>10</sup> .....	41		2,919,467
<b>Fillers:</b>			
Liquid.....	73	495,361	683,221
<b>Paste.....</b>	<b>111</b>	<i>Pounds</i> 20,838,050	<b>1,801,947</b>
Dry.....	7	9,775,004	152,304
Putty.....	159	99,163,239	4,253,334
Bleached shellac.....	14	11,139,556	5,431,340
<b>Stains:</b>			
Varnish stains.....	192	2,159,620	4,381,153
Stains, other than varnish stains.....	240	3,533,961	4,541,251

## RAYON AND ALLIED PRODUCTS

Aggregate.....	(1)		\$149,546,107
<b>Yarns, total.....</b>	<b>2 23</b>	<i>Pounds</i> 116,632,378	<b>140,846,595</b>
Finer than 125 denier.....	15	12,813,845	21,176,640
125 to 150 denier.....	23	85,528,539	101,494,715
Heavier than 150 denier.....	17	18,289,994	18,175,240
Allied products (sheets, waste, etc.).....	23		8,699,512

See footnotes on p. 70.

INDUSTRY GROUP 6.—CHEMICALS AND ALLIED PRODUCTS—Continued

PRODUCT	Number of establishments	Quantity	Value
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SALT

[This industry embraces establishments engaged primarily in the manufacture of commercial salt, whether from rock salt or from natural or artificial brines]

(Commodities not reported in detail).....	58		\$37,868,697
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SOAP

Aggregate.....	(1)	Pounds	
			\$286,756,875
Hard soaps, total.....	2 169	2,250,663,402	199,855,682
Toilet soap.....	71	324,383,543	59,982,697
Foods soap.....	24	21,829,276	1,916,677
Soap chips.....	84	337,925,004	41,763,903
Laundry soap—			
White (made from vegetable oils, etc.).....	52	914,588,831	51,175,255
Yellow (made from tallow, rosin, etc.).....	71	550,593,948	40,774,488
Other hard soaps.....	74	51,342,800	4,242,962
Granulated and powdered soap.....	70	337,291,356	35,724,861
Soap powders (including commodities reported as cleansing powders and washing powders).....	107	505,529,239	23,387,172
Liquid soap.....	207	35,263,195	3,497,384
Soft soap.....	133	66,141,865	3,950,851
Paste soap.....	44	40,526,581	3,009,945
Shaving soap, cream, and powder, total.....	50		10,793,908
Weight reported.....		11,093,665	7,791,616
Weight not reported.....			3,002,292
Special soap articles.....	10	6,444,377	766,252
Soap stock or soap base, for sale.....	19	4,106,339	292,323
Soap not reported by kind.....	147	49,513,181	5,478,497

TANNING MATERIALS, NATURAL DYESTUFFS, MORDANTS AND ASSISTANTS, AND SIZES

Aggregate.....	(1)	Pounds	
			\$33,614,891
Tanning materials, total <sup>41</sup> .....	2 33		9,957,809
Extracts—			
Chestnut, total.....	2 17		4,001,327
Liquid.....	17	236,020,840	3,615,882
Solid.....	4	34,141,249	385,445
Quebracho (liquid).....	7	100,066,938	3,229,073
Oak (liquid and solid).....	6	7,826,963	295,084
Sumac (liquid).....	6	5,279,069	343,680
Other extracts (including chrome tannage).....	11		1,936,773
Other tanning materials.....	5		151,932
Natural dyestuffs, total.....	2 10		2,425,984
Extracts—			
Logwood (liquid and solid).....	5	19,337,708	1,843,448
Fustic (liquid and solid).....	3	2,632,816	253,806
Quercitron (liquid and solid).....	4	2,419,874	171,702
Osage-orange (liquid and solid).....	3	561,515	44,546
Other extracts and ground, chipped, and dry products.....	4		112,482
Mordants, total.....	2 12		1,173,427
Tannic acid.....	4	1,449,375	503,567
Other.....	9		669,860
Assistants, total.....	2 55		6,893,561
Turkey-red oil.....	25	24,260,669	2,542,042
Softeners.....	43	31,612,775	2,248,448
Other.....	22		2,103,071

See footnotes on p. 70.

## INDUSTRY GROUP 6.—CHEMICALS AND ALLIED PRODUCTS—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>TANNING MATERIALS, NATURAL DYE STUFFS, MORDANTS AND ASSISTANTS, AND SIZES—Continued</b>			
Sizes, total.....	27	<i>Pounds</i>	\$13,164,030
Rosin sizes.....	23	201,289,755	6,108,457
Dextrin sizes.....	13	35,506,764	2,042,928
Gum sizes, other than rosin.....	19	20,138,178	1,400,566
Other sizes (made of starch, glue, etc.).....	27	42,360,549	3,612,101
<b>WOOD DISTILLATION AND CHARCOAL MANUFACTURE</b>			
Aggregate.....	(1)	<i>Gallons</i>	\$30,288,582
Methanol (wood alcohol):			
Crude, total.....	51	8,355,189	
For sale.....		5,101,077	1,794,392
Made and consumed in same establishments.....		3,254,112	
Refined.....	11	6,676,321	3,907,111
Acetate of lime, total.....	49	<i>Short tons</i>	
For sale.....		64,960	
Made and consumed in same establishments.....		58,183	4,695,449
Made and consumed in same establishments.....		6,797	
Methyl acetone.....	7	<i>Pounds</i>	574,736
Miscellaneous chemicals, acetic acid, ethyl acetate, etc. <sup>2</sup> .....	15	4,675,140	3,840,575
Tar, total.....	25	<i>Gallons</i>	
For sale.....		10,518,016	
Made and consumed in same establishments.....		6,904,363	878,668
Made and consumed in same establishments.....		3,613,653	
Tar oils.....	19	996,582	200,507
Pitch.....	8	<i>Pounds</i>	102,370
Turpentine, wood <sup>3</sup> .....	25	<i>Gallons</i>	1,714,139
Pine oil.....	20	4,619,253	1,271,641
		2,722,172	
Rosin, wood <sup>4</sup> .....	11	<i>Bbls., 500 lbs.</i>	5,443,214
		478,555	
Charcoal, total.....	76	<i>Bushels</i>	5,472,606
Hardwood distillation.....	52	45,355,001	4,922,591
Softwood distillation.....	13	40,828,944	386,743
Kiln or pit plants.....	11	3,656,051	163,272
Kiln or pit plants.....	11	870,006	
Other wood products.....	19		393,174

<sup>1</sup> The aggregate numbers of establishments—i. e., the sums of the several items for a given group of products—are not shown because such aggregates would greatly overstate the actual numbers of establishments reporting the groups of products in question. This condition arises because in practically all cases each establishment is engaged in the manufacture of more than one of the individual products or classes of products. The net numbers of establishments reporting the several groups of products are not shown by the census tabulations.

<sup>2</sup> Inasmuch as some establishments manufacture more than 1 kind of product, the totals in this column are smaller than the sum of the figures below them.

<sup>3</sup> Includes \$73,533 for blank cartridges.

<sup>4</sup> From reports of the U. S. Bureau of Mines.

<sup>5</sup> Includes value of other products made in industry, but does not include value of candles made as secondary products in other industries. Actual value of candles manufactured in all industries reporting them as either major or minor products, \$8,093,436.

<sup>6</sup> The amounts under this heading represent products manufactured during the period covered, whether sold or not.

<sup>7</sup> Quantity calculated on a basis of 100 per cent.

<sup>8</sup> The net numbers of establishments reporting the several products are not shown by the census tabulations.

<sup>9</sup> Includes, in order of value, data for hydrofluoric, tungstic, molybdic, hydriodic, hydrofluosilicic, etc.

<sup>10</sup> Includes, in order of value, data for hydrocyanic, oxalic, acetic, anhydride, formic, gallic, lactic, etc.

- <sup>11</sup> Ammonia (NH<sub>3</sub>) content.
- <sup>12</sup> Includes, in order of value, data for chloride nitrate, carbonates, bromide, molybdate, etc.
- <sup>13</sup> Includes, in order of value, data for sodium nitrate, silver nitrate, sodium nitrite, bismuth, subnitrate, gaseous nitrogen, strontium nitrate, etc.
- <sup>14</sup> Not including caustic soda made and consumed in the wood-pulp and textile industries.
- <sup>15</sup> Includes, in order of value, data for nitrate, hydrosulphite, aluminate, crude bicarbonate, nitrite, bisulphite, peroxide, etc.
- <sup>16</sup> Includes, in order of value, data for cyanide, sulphonylate, glycerophosphate, xanthate, salicylate, etc.
- <sup>17</sup> Includes, in order of value, data for chloride, carbonate, bromide, bichromate, permanganate, etc.
- <sup>18</sup> Includes, in order of value, data for xanthate, Rochelle salt, tartar emetic, glycerophosphates.
- <sup>19</sup> Production for sale. Total production of aluminum chloride, as reported by the U. S. Bureau of Mines, was 16,551 tons, valued at \$1,600,826.
- <sup>20</sup> Includes, in order of value, data for sodium aluminate, hydroxide, oleate, resinates, and acetate.
- <sup>21</sup> Does not include by-product crudes of by-product coke plants and gas works nor the value of crudes made and consumed in same establishments.
- <sup>22</sup> Toothbrush blanks, toys, novelties, fancy articles, handles for cutlery and umbrellas, etc.
- <sup>23</sup> Includes, in order of value, data for phenolic resins, cellulose plastics, casein plastics, etc.
- <sup>24</sup> Not including glycerol (glycerin), ethyl alcohol, nor methanol produced by the distillation of wood.
- <sup>25</sup> Production for sale by chemical and soap-manufacturing establishments only. Total production of crude glycerin, 80 per cent basis (Quarterly Census of Animal and Vegetable Fats and Oils), was 140,079,568 pounds.
- <sup>26</sup> Basis of 100 volumes.
- <sup>27</sup> Production of electric-furnace ferro-alloys only.
- <sup>28</sup> Quantity not reported by all manufacturers. In addition, 90,932,626 pounds of vitreous enamels, valued at \$5,683,701, were made and consumed in further manufacturing operations in the "Stamped ware, enamel ware, and metal stamping, enameling, japanning, and lacquering" and the "Plumbers' supplies, not including pipe or vitreous-china sanitary ware" industries.
- <sup>29</sup> For detailed statistics of production and sales of synthetic organic chemicals see report of the United States Tariff Commission, tariff information series No. 39, 1929.
- <sup>30</sup> Does not include data for production in the coke and manufactured-gas industries.
- <sup>31</sup> Not including chlorine made and consumed in the wood-pulp industry.
- <sup>32</sup> Argon, nitrogen, helium, etc.
- <sup>33</sup> Production in the drug industries only. This item consists principally of calcium and lead arsenates and lime-sulphur solution, data for which are included in the statistics for these commodities in the report for the "Chemicals, not elsewhere classified" industry.
- <sup>34</sup> Basis 16 per cent available phosphoric acid.
- <sup>35</sup> Not included in aggregate tons.
- <sup>36</sup> Includes value of other products made in industry, but does not include value of vinous liquors made as secondary products in other industries. Actual value of vinous liquors manufactured in all industries reporting them as either major or minor products, \$2,100,882.
- <sup>37</sup> Includes value of other products made in industry, but does not include value of mucilage, paste, and other adhesives made as secondary products in other industries. Actual value of mucilage, paste, and other adhesives manufactured in all industries reporting them as either major or minor products, \$8,728,587.
- <sup>38</sup> From census bulletin No. 168, Cotton Production and Distribution, season of 1928-29.
- <sup>39</sup> From reports of census and manufactures. Includes value of refined cottonseed oil and minor products other than cottonseed oil, reported by establishments classified in the industry.
- <sup>40</sup> Asphalts, color and lithographic varnishes, etc.
- <sup>41</sup> Not including tanning materials made and consumed in same establishments.
- <sup>42</sup> Acetic acid and ethyl acetate are made primarily by establishments in other industries. For total production of these commodities see report on chemicals.
- <sup>43</sup> Only small amounts of turpentine and rosin are produced in the wood-distillation industries, these commodities being distilled mainly from crude gum by establishments in the "Turpentine and rosin" industry. Such production for the crop year ended March 31, 1930, amounted to 31,320,871 gallons of turpentine and 1,975,631 barrels of rosin.
- \* Organic.

## INDUSTRY GROUP 7.—PRODUCTS OF PETROLEUM AND COAL

[This table presents statistics for all commodities covered by the Census of Manufactures classification, except those for which the figures must be withheld from publication in order to avoid disclosing, exactly or approximately, the data reported by individual establishments. (See sec. 7 of General Explanations.)]

PRODUCT	Number of establishments	Quantity	Value
<b>GAS AND COKE INDUSTRIES <sup>1</sup> 2</b>			
Aggregate.....	(3)	-----	\$874, 151, 033
Gas:		<i>1,000 cu. ft.</i>	
Total production.....	(4)	1, 237, 910, 978	-----
Sales.....		849, 645, 105	499, 342, 136
Coke:		<i>Short tons</i>	
Total production.....	(4)	62, 265, 668	-----
For sale.....		60, 095, 277	283, 427, 029
Screenings and breeze:			
Total production.....	(4)	5, 330, 250	-----
Sales <sup>5</sup> .....		1, 017, 181	2, 849, 384
Tar:		<i>Gallons</i>	
Total production.....	(4)	845, 794, 885	-----
Sales <sup>6</sup> .....		454, 598, 157	22, 821, 639
Ammonia (NH <sup>3</sup> equivalent of all forms):		<i>Pounds</i>	
Sales <sup>4</sup> .....	(4)	437, 657, 103	29, 034, 931
Crude light oil:		<i>Gallons</i>	
Total production.....	(4)	203, 497, 484	-----
Sales <sup>4</sup> .....		10, 783, 188	1, 311, 629
Light-oil derivatives:			
Total production.....	(4)	171, 022, 095	-----
Sales <sup>4</sup> .....		154, 076, 479	30, 227, 917
Drip and holder oil:			
Sales <sup>4</sup> .....	(4)	4, 746, 977	375, 896
Naphthalene, crude:		<i>Pounds</i>	
Total production.....	(4)	<sup>6</sup> 22, 748, 229	-----
Sales.....		<sup>6</sup> 22, 577, 597	<sup>6</sup> 369, 648
Other by-products.....	(4)	-----	4, 390, 824

### FUEL: BRIQUETTES AND BOULETS <sup>1</sup>

[Principal products: Briquettes and boulets made from anthracite culm, bituminous slack, peat, etc., mixed with tar or pitch as a binder; charcoal briquettes; powdered fuel]

(Commodities not reported in detail).....	23	<i>Short tons</i> 1, 136, 577	\$9, 497, 657
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### LUBRICATING OILS AND GREASES, NOT MADE IN PETROLEUM REFINERIES

[Principal products: Lubricating oils, axle grease, and other lubricating greases]

(Commodities not reported in detail).....	177	-----	\$69, 584, 246
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See footnotes on p. 73.

INDUSTRY GROUP 7.—PRODUCTS OF PETROLEUM AND COAL—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>PETROLEUM REFINING</b>			
Aggregate.....	(3)		\$2,627,533,212
Light products of distillation, total.....	362	<i>Gallons</i> 18,408,526,510	1,610,044,440
Gasoline <sup>10</sup> .....	354	17,538,788,709	1,531,242,047
Naphtha.....	82	662,642,001	64,904,197
Benzine.....	7	49,940,970	5,276,195
Tops.....	16	155,154,830	8,622,001
Illuminating oils.....	261	2,388,928,885	164,835,912
Fuel oils, total.....	354	10,390,954,087	384,630,297
Distillates.....	200	1,024,364,025	39,338,451
Gas oils.....	229	2,882,958,643	96,094,037
Residual fuel oils.....	278	12,483,631,419	249,197,809
Partially refined oils, sold for rerunning, total.....	88	1,466,861,399	49,142,865
Above fuel oil.....	43	869,055,523	(11)
Fuel oil.....	28	567,533,199	(11)
Below fuel oil.....	17	30,272,677	(11)
Lubricating oils, total <sup>12</sup> .....	171	1,553,710,762	304,672,655
Pale or paraffin, viscosity less than 100° Universal, or flash under 400° F., closed cup.....	71	157,669,411	19,652,929
Red or neutral; viscosity 100° Universal or higher, or flash 400° F., or over, closed cup (not including cylinder oils).....	84	564,640,109	90,602,524
Cylinder oils.....	86	218,560,891	59,109,268
Other lubricating oils, including compounded and undistributed (except cylinder) oils.....	100	612,840,351	135,307,934
Liquid asphaltic road oils.....	66	323,001,799	11,041,285
Residuum or tar.....	21	104,111,494	3,148,630
Greases, total.....	69	52,017,128	16,645,858
Petrolatum, mineral jelly, etc.....	28	13,663,503	2,547,531
Lubricating greases, other than axle grease <sup>13</sup> .....	53	34,605,242	12,729,391
Axle grease <sup>13</sup> .....	23	3,748,383	1,368,936
Paraffin wax.....	71	84,639,316	22,328,375
Acid oil.....	10	34,766,976	662,611
Asphalt, other than liquid asphalt.....	44	<i>Short tons</i> 3,115,197	34,506,067
Coke, petroleum.....	97	1,264,576	5,461,210
Other refinery products <sup>14</sup> .....			20,413,007

<sup>1</sup> Statistics for the coke industry are based on data compiled and published by the U. S. Bureau of Mines, revised to exclude figures for 21 establishments for 1929, classified as gas plants.

<sup>2</sup> The amounts under this heading represent products manufactured during the period covered, whether sold or not.

<sup>3</sup> The aggregate numbers of establishments—i. e., the sums of the several items for a given group of products—are not shown because such aggregates would greatly overstate the actual numbers of establishments reporting the groups of products in question. This condition arises because in practically all cases each establishment is engaged in the manufacture of more than one of the individual products or classes of products. The net numbers of establishments reporting the several groups of products are not shown by the census tabulations.

<sup>4</sup> The net numbers of establishments reporting the several products are not shown by the census tabulations.

<sup>5</sup> Products of the gas industry sold and available for sale from the production of this year; products of the coke industry sold within this year.

<sup>6</sup> Includes some refined naphthalene.

<sup>7</sup> Value of lubricating oils, \$47,077,021; lubricating greases, \$17,349,837; other products \$5,157,388. In addition, lubricating oils and greases valued as follows were made as secondary products by establishments in other industries: Petroleum refineries—oils, \$304,672,655; greases (including axle grease), \$14,098,327. Other industries—oils, \$1,341,905; greases, \$1,333,306.

<sup>8</sup> See sec. 7 of General Explanations.

<sup>9</sup> Inasmuch as some establishments manufacture more than 1 kind of product, the totals in this column are smaller than the sum of the figures below them.

<sup>10</sup> The production of natural gasoline, not covered by the census, was reported by the U. S. Bureau of Mines as follows: Number of plants, 1,087; gallons, 2,233,688,000; value, \$158,410,000.

<sup>11</sup> Data not available.

<sup>12</sup> Production by petroleum refineries only. Lubricating oils are produced to a considerable extent by establishments other than petroleum refineries. The value of the total production of lubricating oils in 1929 regardless of class of establishment in which produced, so far as separately reported to the Bureau of the Census, was \$353,091,581.

<sup>13</sup> Production by petroleum refineries only. The total production of lubricating greases, including axle grease, regardless of class of establishment in which produced, was valued at \$32,781,470.

<sup>14</sup> Oils in process, still gas, wax tailings, etc.

## INDUSTRY GROUP 8.—RUBBER PRODUCTS

[This table presents statistics for all commodities covered by the Census of Manufactures classification, except those for which the figures must be withheld from publication in order to avoid disclosing, exactly or approximately, the data reported by individual establishments. (See sec. 7 of General Explanations)]

### RUBBER BOOTS AND SHOES

PRODUCT	Number of establishments	Quantity	Value
Aggregate.....	(1)	<i>Pairs</i>	\$111,359,622
Rubber boots.....	16	5,453,865	16,140,851
Rubber shoes and overshoes, total.....	19	51,356,618	64,883,492
Lumbermen's.....	12	1,817,078	4,171,728
Arctics.....	10	5,651,321	9,078,657
Gaiters.....	12	10,473,821	17,304,030
Arctics and gaiters, not reported separately.....	4	3,119,531	5,339,646
Other rubber shoes, rubbers, and footholds.....	19	30,294,807	28,989,431
Canvas rubber-soled shoes.....	12	43,954,011	30,335,279

### RUBBER GOODS, OTHER THAN TIRES, INNER TUBES, AND BOOTS AND SHOES

PRODUCT	(1)	Pairs	Value
Aggregate.....	(1)	<i>Pairs</i>	\$323,361,070
Rubber heels, for sale as such.....	34	292,719,416	17,920,991
Rubbersoles, including composition or fiber, for sale as such.....	33	46,188,879	8,959,690
Rubber soling strips.....	20	<i>Square feet</i>	1,717,212
Rubberized fabrics, for sale as such, total.....	40	14,213,026	29,754,104
Automobile and carriage.....	10	<i>Yards</i>	11,864,090
Hospital sheeting.....	18	22,407,668	1,444,348
Raincoat fabrics.....	18	3,048,105	9,681,803
Other.....	28	25,575,960	6,763,863
Mechanical rubber goods:			
Rubber belting, total.....	20		25,776,445
Transmission.....	16	<i>Pounds</i>	13,140,125
Conveyor.....	16	21,574,539	8,213,097
Other.....	12	15,442,548	4,417,253
Rubber hose and tubing, total.....	35		40,932,025
Hose, total.....	35		37,437,579
Garden.....	18	<i>Feet</i>	9,049,483
Fire.....	13	145,254,706	5,988,345
Other.....	30	15,566,761	22,399,751
Tubing.....	29	<i>Pounds</i>	3,494,446
Rubber packing.....	28	16,235,064	5,032,921
Washers, gaskets, valves, pump sleeves, liner strips.....	37	17,923,100	5,107,348
Rubber and friction tape.....	14	13,320,192	4,950,125
Plumbers' rubber goods.....	12	20,426,381	1,041,470
Rubber-covered rolls (all sizes).....	18		2,528,375
Other mechanical rubber goods.....	54		30,479,563
Hard-rubber goods, total.....	25		17,937,397
Battery jars, boxes, and parts.....	10		5,809,715
Other.....	22		12,127,682
Reclaimed rubber, for sale as such.....	30	363,695,965	23,006,089

See footnotes on p. 75.

INDUSTRY GROUP 8.—RUBBER PRODUCTS—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>RUBBER GOODS, OTHER THAN TIRES, INNER TUBES, AND BOOTS AND SHOES—</b> Continued			
Druggists' and medical sundries (except rubber gloves):			
Water bottles and fountain syringes.....	12	<i>Dozens</i> 692, 038	\$4, 959, 599
Other.....	29		5, 986, 062
Rubber erasers.....			
Rubber bands.....	5	<i>Pounds</i> 1, 832, 683	1, 065, 186
	13	3, 488, 731	1, 955, 005
Rubber gloves:			
Surgeons'.....	13	<i>Dozen pairs</i> 473, 547	991, 083
Other.....	12	576, 619	1, 936, 739
Rubber cement.....			
	40	<i>Gallons</i> 6, 050, 395	4, 697, 497
Rubber flooring.....			
Rubber mats and matting.....	17	<i>Square feet</i> 8, 565, 615	4, 267, 010
Tire sundries and repair materials.....	38		8, 805, 670
	73		17, 168, 002
Rubber thread.....			
	6	<i>Pounds</i> 5, 726, 490	5, 189, 600
Jar rings.....			
	5	<i>Gross</i> 8, 437, 696	3, 001, 475
Bathing caps.....			
Other manufactures of rubber.....	13	<i>Dozens</i> 1, 090, 054	1, 842, 401
	138		<sup>3</sup> 45, 446, 076

RUBBER TIRES AND INNER TUBES

	(1)	Number	
Aggregate.....			\$676, 909, 812
Pneumatic:			
Motor-vehicle, except motor cycle—			
Casings, total.....	<sup>1</sup> 77	69, 765, 223	573, 527, 425
Balloon.....	77	51, 640, 430	382, 425, 638
High-pressure.....	69	18, 124, 793	191, 101, 787
Inner tubes, total.....			
Balloon.....	<sup>2</sup> 65	74, 043, 041	80, 575, 518
High-pressure.....	63	50, 478, 997	58, 435, 412
	58	23, 564, 044	27, 140, 106
Motor cycle and bicycle—			
Casings and single-tube tires.....	8	3, 407, 743	3, 451, 699
Inner tubes.....	7	329, 074	182, 468
Solid and cushion:			
Truck and bus.....	13	423, 695	14, 866, 551
Tractor, trailer, and industrial-truck.....	5	165, 563	3, 050, 507
Other (carriage tiring, etc.).....	4		1, 225, 644

<sup>1</sup> The aggregate numbers of establishments — i. e., the sums of the several items for a given group of products—are not shown because such aggregates would greatly overstate the actual numbers of establishments reporting the groups of products in question. This condition arises because in practically all cases each establishment is engaged in the manufacture of more than one of the individual products or classes of products. The net numbers of establishments reporting the several groups of products are not shown by the census tabulations.

<sup>2</sup> Inasmuch as some establishments manufacture more than 1 kind of product, the totals in this column are smaller than the sum of the figures below them.

<sup>3</sup> Includes rubber clothing, \$17,434,080; toy balloons, \$3,060,807; play balls and other rubber toys, etc. \$3,944,721.

## INDUSTRY GROUP 9.—LEATHER AND ITS MANUFACTURES

[This table presents statistics for all commodities covered by the Census of Manufactures classification, except those for which the figures must be withheld from publication in order to avoid disclosing, exactly or approximately, the data reported by individual establishments. (See sec. 7 of General Explanations)]

PRODUCT	Number of establishments	Quantity	Value
<b>BELTING, LEATHER</b>			
Leather belting, aggregate.....	1 189		\$25, 623, 993
Flat.....	183	<i>Pounds</i> 13, 051, 299	23, 478, 916
Kind not specified.....	64		2, 145, 077
Belt repairs (including rebuilding and reworking).....	105		1, 127, 295
Leather packing (cup, U, valve, etc.).....	27		3, 725, 710
<b>BOOT AND SHOE CUT STOCK, NOT MADE IN BOOT AND SHOE FACTORIES</b>			
[Principal products: Uppers, soles, top lifts, heels, tips, inner soles, etc.]			
(Commodities not reported in detail).....	210		\$133, 447, 914
<b>BOOT AND SHOE FINDINGS, NOT MADE IN BOOT AND SHOE FACTORIES</b>			
[Principal products: Shoe pegs, bows, clasps, stays, metal tips and heel plates, toe caps and heel caps, buckles, staples, counters, shanks, wooden heels, shoe trimmings, boot and shoe laces, and other findings]			
(Commodities not reported in detail).....	382		\$58, 625, 445
<b>BOOTS AND SHOES, OTHER THAN RUBBER <sup>1</sup></b>			
Aggregate.....	(3)		\$962, 862, 028
<i>Pairs</i>			
Boots, shoes, slippers, and other footwear, total.....	1 1, 288	371, 519, 239	958, 689, 737
Boots and shoes, total.....	1 1, 147	333, 143, 156	916, 289, 305
Leather, total.....	1 1, 135	329, 511, 439	904, 641, 759
Other than athletic and sporting—			
Men's.....	291	100, 747, 087	312, 510, 718
Youths' and boys'.....	129	22, 616, 080	49, 091, 184
Women's.....	697	136, 006, 501	432, 261, 640
Misses' and children's.....	244	44, 205, 717	77, 707, 381
Infants'.....	143	23, 075, 892	24, 239, 195
Athletic and sporting, total.....	1 45	2, 857, 162	8, 831, 641
Men's.....	27	1, 208, 389	3, 543, 674
Women's.....	32	1, 648, 773	5, 287, 967
Canvas and other textile fabrics, total.....	1 105	3, 631, 717	11, 647, 546
Men's.....	82	281, 671	465, 928
Women's.....	88	3, 350, 046	11, 181, 618
Slippers for house wear, total.....	1 142	35, 064, 451	35, 816, 508
Leather, total.....	1 96	12, 952, 823	16, 094, 732
Men's, youths', and boys'.....	62	5, 996, 859	7, 374, 700
Women's and misses'.....	74	6, 955, 974	8, 720, 032
Other than all-leather, total.....	1 77	25, 111, 618	19, 721, 771
Men's.....	50	6, 711, 814	5, 943, 615
Women's.....	64	18, 399, 804	13, 778, 156
Ballet slippers.....	16	311, 632	643, 986
Other footwear <sup>2</sup> .....	74	(?)	5, 939, 993
Leggings, overgaiters, puttees, etc.:			
Leather.....	19		1, 432, 532
Other than leather.....	21		2, 739, 759

See footnotes on p. 79.

INDUSTRY GROUP 9.—LEATHER AND ITS MANUFACTURES—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>GLOVES AND MITTENS (ALL-LEATHER LINED AND UNLINED)</b>			
Gloves and mittens, all-leather, lined and unlined, aggregate..	258	Dozen pairs 3,040,222	\$36,992,806
<b>LEATHER: TANNED, CURRIED, AND FINISHED 1</b>			
Aggregate.....	(3)	-----	\$458,307,954
Sole and belting leather, total.....	108	-----	140,434,447
Oak and union sole.....	88	<i>Backs, bends, and sides</i> 13,750,273	93,911,933
Chrome and combination sole.....	14	595,789	3,994,127.
Horse.....	7	<i>Whole butts</i> 396,115	938,600
Belting butts, rough.....	22	<i>Butts and butt bends</i> 705,084	9,043,116
Belting butts, curried.....	15	670,011	8,878,754
Offal (heads, bellies, shoulders, etc.).....	88	<i>Pounds</i> 94,642,502	23,667,857
Harness leather, total.....	130	-----	8,092,336
Union black.....	15	<i>Sides</i> 234,238	2,476,107
Oak black and russet.....	17	460,690	3,616,229
Bag, case, and strap leather.....	26	1,054,724	7,307,793
Skirting leather.....	12	63,146	597,480
Collar leather.....	14	362,588	1,554,003
Lace leather.....	18	142,823	911,733
Upholstery leather (automobile, furniture, and carriage), total.....	120	-----	15,401,442
Whole-hide grains and machine-butted.....	17	<i>Hides</i> 623,451	8,907,105
Buffings (russet).....	12	255,088	1,437,819
Splits (main and second).....	16	<i>Pieces</i> 723,550	5,057,018
Upper leather (other than patent), total.....	131	-----	185,201,616
Cattle (including kip side).....	50	<i>Sides</i> 12,303,702	51,963,247
Calf.....	41	<i>Skins</i> 12,932,950	43,355,540
Kip (except kip side).....	15	<i>Whole skins</i> 1,316,702	5,766,200
Goat and kid.....	35	<i>Skins</i> 50,148,623	64,659,815
Sheep and lamb (shoe stock) and cabretta.....	23	14,323,794	15,523,386
Kangaroo and wallaby.....	5	891,734	1,439,274
Horse (including colt, ass, and mule)— Half and whole fronts.....	5	<i>Equivalent half fronts</i> 115,959	429,366
Butts.....	5	<i>Equivalent butts</i> 451,428	971,466
Shanks.....	5	<i>Shanks</i> 493,147	189,065
Other, including deer and elk.....	4	-----	904,257
Patent leather (other than upholstery), total.....	142	-----	24,839,570
Cattle (including kip side).....	41	<i>Sides</i> 5,374,691	23,503,897
Other.....	5	-----	1,335,673
Glove and garment leather, total.....	154	-----	23,024,659
Cattle grain (including foreign-tanned kip), calf, and kip, and cowhide bellies.....	11	-----	1,190,760
Horse, colt, ass, and mule— Half and whole fronts.....	3	<i>Equivalent half fronts</i> 1,856,264	6,378,662
Butts and shanks.....	7	-----	631,546

See footnotes on p. 79.

## INDUSTRY GROUP 9.—LEATHER AND ITS MANUFACTURES—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>LEATHER: TANNED, CURRIED, AND FINISHED <sup>1</sup>—Continued</b>			
<b>Glove and garment leather—Continued.</b>			
Cabretta.....	5	<i>Skins</i> 544, 995	\$1, 189, 074
Sheep and lamb (except shearlings).....	21	5, 618, 478	7, 449, 133
Shearlings.....	12	3, 027, 262	5, 405, 075
Deer and elk.....	8	181, 126	476, 210
Other.....	4		304, 199
<b>Fancy and bookbinders' leather, total.....</b>	<b>1 52</b>		<b>16, 390, 107</b>
<i>Sides</i>			
Cowhide.....	12	156, 565	930, 066
<i>Hides</i>			
Buffings (finished).....	11	96, 840	776, 701
<i>Skins</i>			
Goat and kid.....	14	646, 438	1, 475, 508
Sheep and lamb and cabretta.....	24	3, 972, 282	6, 186, 085
Calf and kip.....	12	496, 110	1, 983, 900
Other.....	7		5, 027, 937
<b>Splits (other than upholstery), finished.....</b>	<b>69</b>	<i>Side splits</i> 21, 210, 302	<b>19, 517, 063</b>
<b>Miscellaneous leather, total.....</b>	<b>1 99</b>		<b>17, 035, 615</b>
<i>Skins</i>			
Roller leather.....	9	979, 126	1, 706, 828
<i>Dozens</i>			
Hat sweat skivers.....	7	107, 133	2, 182, 199
Skivers (other than hat sweat).....	15	237, 480	3, 281, 825
Chamois fleshers.....	5	195, 649	2, 098, 715
Fleshers, other than chamois.....	7	9, 596	170, 734
<b>Rough leather unsplit, for sale in the rough.....</b>	<b>7</b>	<i>Equivalent sides</i> 84, 635	<b>476, 323</b>
<i>Equivalent side splits</i>			
Rough splits, for sale in the rough.....	19	1, 213, 022	1, 111, 576
Other leather.....	31		5, 107, 415

## MISCELLANEOUS LEATHER PRODUCTS

Aggregate.....	( <sup>2</sup> )		\$43, 013, 213
Belts (for wear on the person).....	143		14, 582, 261
Desk sets.....	24		1, 200, 933
Handles, corners, straps, etc., for luggage.....	35		4, 036, 555
Embossed leather.....	16		1, 673, 580
Check-book covers.....	18		1, 338, 137
Dog furnishings.....	23		955, 497
Key cases.....	33		914, 739
Vanity cases.....	14		733, 699
Washers.....	16		557, 794
Burnt leather.....	9		357, 218
Cigar and cigarette cases.....	22		315, 722
Other leather products <sup>1</sup> .....	250		16, 347, 078

## POCKETBOOKS, PURSES, AND CARDCASES

Aggregate.....	( <sup>2</sup> )		\$65, 199, 865
Women's purses, hand bags.....	171		40, 521, 323
Pocketbooks.....	118		10, 965, 613
Bill folds.....	59		5, 116, 929
Coin purses.....	35		1, 365, 976
Cardcases.....	28		1, 230, 024

See footnotes on p. 79.

INDUSTRY GROUP 9.—LEATHER AND ITS MANUFACTURES—Continued

PRODUCT	Number of establishments	Quantity	Value
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**SADDLERY AND HARNESS**

[Principal products: Saddles and parts, harnesses and parts, halters, horse boots, turf goods, feed bags, etc.]

(Commodities not reported in detail) .....	260	.....	\$23, 338, 555
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**TRUNKS, SUITCASES, AND BAGS**

[Principal products: Trunks, valises, suitcases, traveling bags, satchels, Boston bags, carrying cases, brief cases, hat boxes, luncheon kits, etc.]

(Commodities not reported in detail) .....	467	.....	\$63, 968, 929
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<sup>1</sup> Inasmuch as some establishments manufacture more than 1 kind of product, the totals in this column are smaller than the sums of the figures below them.

<sup>2</sup> The amounts under this heading represent products manufactured during the period covered, whether sold or not.

<sup>3</sup> The aggregate numbers of establishments—i. e., the sums of the several items for a given group of products—are not shown because such aggregates would greatly overstate the actual numbers of establishments reporting the groups of products in question. This condition arises because in practically all cases each establishment is engaged in the manufacture of more than one of the individual products or classes of products. The net numbers of establishments reporting the several groups of products are not shown by the census tabulations.

<sup>4</sup> In addition, products normally belonging to the boot and shoe industry, valued at \$481,016, were reported as secondary products by establishments engaged primarily in other lines of manufacture.

<sup>5</sup> Exclusive of data for "Other footwear" for which number of pairs was not called for on schedule.

<sup>6</sup> Principally bathing slippers, moccasins, sandals, wooden-soled shoes, sheepskin shoes, and Comfy slippers.

<sup>7</sup> Not called for on schedule.

<sup>8</sup> Leather trimmings, razor strops, police goods, textile leathers, wrist bands, souvenirs, picture frames, novelties, etc.

## INDUSTRY GROUP 10.—STONE, CLAY, AND GLASS PRODUCTS

[This table presents statistics for all commodities covered by the Census of Manufactures classification, except those for which the figures must be withheld from publication in order to avoid disclosing, exactly or approximately, the data reported by individual establishments. (See sec. 7 of General Explanations)]

PRODUCT	Number of establishments	Quantity	Value
<b>/ SBESTOS PRODUCTS (INDUSTRY GROUP 10), STEAM AND OTHER PACKING, PIPE AND BOILER COVERINGS, AND GASKETS (INDUSTRY GROUP 16) <sup>1</sup></b>			
Aggregate.....	(2)	<i>Feet</i>	\$101, 876, 448
Asbestos textiles, total.....	<sup>3</sup> 98		
Brake linings (not molded).....	33	110, 246, 479	36, 161, 093 16, 447, 438
Clutch facings.....	17	<i>Pieces</i> 38, 096, 113	3, 910, 727
Yarn.....	17	<i>Pounds</i> 15, 378, 407	5, 173, 568
Cloth.....	17	6, 666, 589	2, 767, 049
Tape, listings, and tubular lagging.....	16	2, 225, 852	1, 292, 231
Packing, compressed sheet.....	10	3, 430, 525	787, 116
Packing, fabric, flat.....	10	1, 076, 301	692, 369
Packing, woven and molded to special sections (with or without other materials).....	28	3, 516, 455	2, 366, 225
Gaskets.....	45	3, 012, 335	1, 726, 804
Other asbestos textiles.....	17		1, 088, 466
Asbestos building materials, total.....	<sup>3</sup> 16		10, 423, 618
Asbestos shingles.....	10	<i>Squares</i> 894, 164	5, 277, 308
Asbestos lumber (plain).....	7	<i>Square feet</i> 16, 770, 928	1, 038, 687
Asbestos lumber (corrugated).....	7	18, 624, 266	1, 455, 730
Other asbestos building materials.....	10		2, 051, 884
Other asbestos products, total.....	<sup>3</sup> 91		22, 446, 503
Pipe and boiler covering, air-cell asbestos.....	36	<i>Linear feet</i> 67, 331, 323	4, 657, 666
Pipe and boiler covering, asbestos other than air-cell.....	25	27, 686, 503	2, 516, 009
Pipe and boiler covering, 85 per cent magnesia.....	11	23, 959, 209	3, 045, 324
Molded asbestos brake lining.....	12	<i>Feet</i> 22, 410, 872	2, 534, 046
Moulded 85 per cent magnesia blocks.....	7	<i>Board feet</i> 21, 479, 103	2, 457, 337
Millboard.....	6	<i>Pounds</i> 7, 280, 221	345, 375
Asbestos insulating cements.....	29	68, 472, 386	917, 846
85 per cent magnesia cement.....	12	2, 725, 244	100, 118
Table mats and protectors.....	17	1, 015, 631	766, 222
Other asbestos products.....	45		<sup>3</sup> 5, 105, 960
Gaskets, other than those listed under "Asbestos textiles" above.....	54		15, 741, 964
Steam and other packing, other than that shown under "Asbestos textiles".....	103		14, 725, 046
Mineral-wool products.....	8		2, 377, 324

See footnotes on p. 86.

INDUSTRY GROUP 10.—STONE, CLAY, AND GLASS PRODUCTS—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>CEMENT</b>			
Aggregate.....	( <sup>2</sup> )	<i>Barrels</i> 172, 052, 483	\$263, 691, 300
Portland.....	164	169, 868, 322	260, 428, 797
Natural, puzzolan, and masonry cement.....	13	2, 184, 161	3, 262, 503

**CHINA FIRING AND DECORATING, NOT DONE IN POTTERIES**

[The firing and decorating of china for the trade]

(Commodities not reported in detail).....	27		\$1, 554, 063
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**CLAY PRODUCTS (OTHER THAN POTTERY) AND NONCLAY REFRACTORIES <sup>6</sup>**

Aggregate.....	( <sup>2</sup> )	<i>Thousands</i>	\$294, 488, 558
<b>Clay products, other than pottery, total</b>			
Common brick.....	1, 719		265, 282, 661
Vitrified brick or block for paving.....	1, 074	5, 505, 359	58, 732, 635
Other vitrified brick or block.....	77	274, 155	5, 970, 909
Face brick.....	41	93, 495	1, 532, 961
Enameled brick.....	457	2, 139, 408	36, 119, 826
Hollow brick.....	7	17, 137	1, 259, 248
	41	25, 803	345, 380
<i>Tons</i>			
Terra cotta.....	29	133, 958	13, 921, 244
<b>Hollow building tile—</b>			
Partition, load-bearing, furring, and book tile.....	367	3, 317, 829	19, 835, 086
Conduit.....	32	503, 710	8, 169, 309
Floor-arch, slio, and cornerib tile; radial chimney blocks; fireproofing tile.....	52	341, 982	2, 137, 872
<i>Squares</i>			
Roofing tile.....	54	370, 771	3, 943, 847
<i>Square feet</i>			
Floor tile (plain, vitreous, encaustic, quarry, etc.).....	65	15, 887, 499	3, 773, 281
Ceramic mosaic tile (vitreous and semivitreous, unglazed).....	31	18, 051, 525	3, 738, 393
Enameled tile (bright, dull, mat, and semimat finishes) and glazed ceramic mosaic.....	31	15, 977, 773	7, 446, 171
Faience tile (including hand decorated).....	35	3, 379, 486	2, 689, 823
Wall tile (white and bright glazed), including trim.....	31	30, 442, 775	11, 254, 320
<i>Tons</i>			
Draintile.....	333	858, 521	6, 515, 718
Sewer pipe.....	107	1, 675, 453	21, 330, 167
Stove lining.....	16	16, 805	468, 248
Flue lining.....	98	243, 333	2, 499, 320
Wall coping.....	60	41, 698	507, 080
<b>Fire-clay products (shaped)—</b>			
Brick, block, or tile for locomotive and other fire-box lining, etc. (9-inch equivalent).....	198	<i>Thousands</i> 938, 218	36, 168, 898
High-alumina brick (over 40 per cent Al <sub>2</sub> O <sub>3</sub> ).....	17	23, 911	2, 114, 925
<i>Tons</i>			
Special shapes.....	53	182, 280	4, 092, 295
<b>Glass-house tank blocks, melting pots, stoppers, floaters, and rings</b>			
Chimney pipe and tops.....	13	35, 912	2, 276, 009
Segment blocks.....	24	19, 885	310, 113
Refractory cement (clay).....	14	50, 546	734, 272
Clay sold, raw or prepared.....	48	57, 532	1, 692, 535
Other clay products.....	229	464, 215	2, 199, 952
Nonclay refractories, total.....	71		3, 502, 764
	47		29, 205, 897
<i>Thousands</i>			
Silica brick.....	26	294, 402	15, 165, 260
Magnesite and chrome brick.....	4	17, 399	5, 630, 647
<i>Tons</i>			
Refractory cement (nonclay).....	18	80, 802	1, 420, 773
Other nonclay refractories, including those of alumina and silicon carbide.....	20		6, 989, 217

See footnotes on p. 86.

## INDUSTRY GROUP 10.—STONE, CLAY, AND GLASS PRODUCTS—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>CONCRETE PRODUCTS</b>			
Aggregate.....	(?)	Tons	\$93,256,012
Building materials, total.....	\$ 1,716		48,595,161
Art-marble and Spanish floor tile.....	24		789,205
Block and tile, except roofing tile.....	1,406	4,327,452	30,471,526
Brick.....	148	162,512	1,064,683
Cast stone.....	314	332,318	12,927,249
Fireplaces and mantels.....	44		524,456
Roofing tile—			
Large.....	38	125,961	2,587,893
Small.....	38	11,091	281,199
Circular structures, total.....	\$ 177	213,357	2,216,123
Cistern and manhole blocks.....	92	63,521	494,405
Silo blocks.....	28	27,873	361,619
Staves and slabs.....	63	121,963	1,360,099
Conduits and pipes, total.....	\$ 462	1,818,587	23,189,021
Culvert pipe.....	168	357,537	4,379,229
Draintile.....	132	75,563	714,379
Electric conduits.....	5	12,578	265,602
Irrigation pipe.....	91	254,801	3,054,600
Meter boxes.....	26	2,748	82,182
Pressure pipe, reinforced.....	17	111,637	2,291,833
Sewer pipe, plain (4-inch to 24-inch).....	127	310,894	3,777,615
Sewer pipe, reinforced (24-inch to 108-inch).....	133	692,779	8,593,072
Household and other accessories, total.....	\$ 341	78,065	2,315,944
Garbage boxes.....	20	4,990	202,142
Garden furniture.....	190	7,995	497,001
Inclinerators.....	6	1,270	51,789
Laundry trays.....	52	36,430	1,101,829
Septic tanks and sanitary fittings.....	146	27,383	963,183
Monuments and grave markers.....	55	3,702	189,770
Burial vaults.....	263	82,640	3,270,846
Paving materials, total.....	\$ 58	54,163	694,793
Crossing slabs.....	16	15,492	213,602
Precast sidewalk slabs and curbing.....	37	28,849	353,470
Precast units for railroad uses.....	8	9,822	127,712
Poles and posts, total.....	\$ 66	28,203	1,412,405
Fence posts.....	47	8,884	129,229
Lighting standards.....	17	17,801	1,247,494
Mail-box posts and transmission poles.....	6	1,518	35,682
Premixed concrete.....	50		7,618,099
Other concrete products.....	128		1,919,830
Concrete products not reported in detail.....	233		1,334,020

**CRUCIBLES**

[Principal products: Graphite crucibles, retorts, and stopper heads]

(Commodities not reported in detail).....	11	\$ 2,944,724
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**EMERY WHEELS AND OTHER ABRASIVE AND POLISHING APPLIANCES**

Aggregate.....	(?)	\$35,523,276
Abrasive grinding wheels.....	39	30,937,825
Buffing and polishing wheels.....	30	4,585,451

See footnotes on p. 86.

INDUSTRY GROUP 10.—STONE, CLAY, AND GLASS PRODUCTS—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>GLASS</b>			
Aggregate.....	( <sup>2</sup> )	<i>Sq. feet</i>	\$299, 717, 083
Plate glass, polished.....	15	148, 742, 970	50, 191, 535
Window glass.....	20	402, 558, 961	25, 962, 167
Obscured glass, including cathedral and skylight glass, and opalescent sheet glass.....	19	34, 293, 632	5, 255, 514
Wire glass:			
Rough (sold as such).....	11	38, 024, 249	4, 278, 321
Polished.....	7	3, 833, 008	1, 713, 885
Pressed and blown glass (except containers):		<i>Dozens</i>	
Tableware and ovenware.....	47		17, 264, 957
Pressed tumblers and goblets.....	21	23, 125, 547	7, 303, 071
Blown tumblers, stem ware, and bar goods.....	26		7, 477, 174
Lenses:			
Motor-vehicle.....	9	2, 321, 171	2, 032, 982
Other.....	6		932, 949
Lamps.....	8		571, 205
Chimneys.....	16	3, 018, 753	1, 951, 567
Lantern globes.....	16	942, 014	671, 665
Shades, globes, and other gas and electric goods (except electric bulbs).....	27		9, 976, 886
Tubing.....	7	<i>Pounds</i>	
Bulbs for electric lamps, opal ware, specialties, and other pressed and blown glass products.....	71	23, 066, 504	4, 750, 300
Glass containers:			
Beverage containers—		<i>Gross</i>	
Pressure ware.....	33	4, 130, 462	16, 689, 679
Nonpressure ware.....	18	437, 414	1, 775, 863
Medicinal and toilet preparation containers (both pressed and blown).....	51	15, 791, 724	41, 486, 352
General-purpose containers.....	29	1, 357, 841	5, 733, 327
Food-product containers:			
Narrow-neck blown bottles (packers' ware).....	37	2, 956, 480	10, 208, 782
Wide-mouth blown bottles and jars (packers' ware).....	44	6, 438, 966	22, 946, 043
Pressed ware (packers' ware).....	6	761, 480	2, 592, 803
Milk bottles.....	25	2, 610, 083	11, 695, 602
Fruit jars (home-pack).....	11	1, 153, 374	8, 524, 974
Other glass products.....			5, 109, 925

**GLASS PRODUCTS (EXCEPT MIRRORS) MADE FROM PURCHASED GLASS**

[Glass cutting, glass beveling, bending sheet glass, engraving on glass, making glass labels, and staining and ornamenting glass]

(Commodities not reported in detail).....	431		\$ 333, 273, 003
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**GRAPHITE, GROUND AND REFINED**

[The extraction from the ore and the refining of graphite (plumbago or black lead)]

(Commodities not reported in detail).....	11		\$ 3, 759, 969
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**HONES, WHETSTONES, AND SIMILAR PRODUCTS**

[Principal products: Honed, oilstones, whetstones, scythestones, and similar products]

(Commodities not reported in detail).....	6		\$ 368, 811
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## INDUSTRY GROUP 10.—STONE, CLAY, AND GLASS PRODUCTS—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>LIME</b>			
Aggregate.....	(?)	Tons	\$29,627,681
Quicklime.....	188	1,948,812	15,709,849
Hydrated lime.....	132	1,307,192	11,383,781
Agricultural lime.....	86	755,682	2,482,238
Not distributed by kind.....	3		51,813

## MARBLE, GRANITE, SLATE, AND OTHER STONE PRODUCTS

Aggregate.....	(?)		\$190,444,408
Building stones, total.....	2 754		114,633,068
Marble, total.....	3 222		41,524,559
For exterior use.....	70		6,217,315
For interior use.....	179		35,307,244
Granite, total.....	3 145		11,437,410
For exterior use.....	144		11,422,148
For interior use.....	4		15,262
Limestone, total.....	3 361		51,301,968
For exterior use.....	333		50,447,014
For interior use.....	30		854,954
Slate, total.....	3 106		6,691,540
For roofing.....	79		5,207,711
For interior use.....	44		1,483,829
Other stones (sandstone, bluestone, etc.), total.....	3 93		3,677,591
For exterior use.....	80		3,148,522
For interior use.....	19		529,069
Monumental stones (monuments, tombstones, and other stone articles for cemetery use), total.....	3 1,110		60,173,889
Marble.....	452		9,825,606
Granite.....	1,041		49,634,342
Other stones (limestone, slate, etc.).....	46		713,941
Stones for ornamental and miscellaneous uses, total.....	3 231		13,984,125
Marble, total.....	3 50		1,684,359
Statuary.....	12		87,623
Table tops.....	27		493,247
Other, including pedestals.....	26		1,103,489
Granite, total.....	3 76		5,820,355
Paving blocks.....	38		2,641,241
Curbing.....	37		1,547,165
Other.....	33		1,631,949
Slate, total.....	3 63		3,345,761
Blackboards and school slates.....	35		1,779,946
Switchboard panels and other electrical insulation.....	32		1,099,631
Other.....	23		466,184
Limestone.....	15		283,040
Other stones (sandstone, bluestone, onyx, etc.).....	41		2,850,610
Stone not reported in detail.....	73		1,653,326

## MINERALS AND EARTHS, GROUND OR OTHERWISE TREATED

[The grinding or pulverizing of certain earths, rocks, or minerals, such as barium, barytes, bentonite borax, chalk, clays, cornwall stone, corundum, diatomaceous earth, emery, feldspar, flint, fluor spar, glass sand, haydite, iron oxide ores, kaolin, limerock, magnesite, manganese ore, mica, oxaluma, pumice, quartz, silica, sintered flue dust, spar, sulphur, and talc.]

(Commodities not reported in detail).....	107		\$17,409,056
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See footnotes on p. 86.

INDUSTRY GROUP 10.—STONE, CLAY, AND GLASS PRODUCTS—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>MIRRORS, FRAMED AND UNFRAMED</b>			
Aggregate.....	(?)		\$24,001,242
Mirrors, plate-glass, total.....	243		19,555,131
Framed.....	99		5,349,136
Unframed.....	215		14,235,995
Mirrors, other than plate-glass, total.....	86		3,531,358
Framed.....	27		835,267
Unframed.....	69		2,696,091
Mirrors not distributed.....	23		884,753

**POTTERY \***

PRODUCT	Number of establishments	Quantity	Value
Aggregate.....	(?)		\$112,019,217
Red earthenware.....	103		2,798,161
Stoneware.....	63		3,819,138
Yellow and Rockingham ware.....	5		324,918
Chemical stoneware.....	4		1,094,562
Chemical porcelain.....	4		277,549
White ware, including cream-color, white granite, semiporcelain, and semivitreous porcelain ware.....	54		32,066,498
Hotel china.....	22		10,476,285
Vitreous china plumbing fixtures (exclusive of fittings), total.....	42		24,992,047
Bathroom and toilet fixtures—			
Closet bowls—		<i>Pieces</i>	
Siphon jets.....	34	317,672	2,095,647
Washdowns.....	36	1,364,804	5,651,120
Reverse traps.....	32	207,221	1,005,491
Flush tanks—			
Low-down (large and small).....	35	1,202,398	6,476,911
Other.....	11	19,776	137,840
Lavatories.....	24	347,809	4,779,710
Other bathroom and toilet fixtures.....	21		3,393,279
Other fixtures, including laundry tubs and kitchen sinks.....	14		1,452,049
Semivitreous or porcelain (all clay) plumbing fixtures (exclusive of fittings), total.....	30		3,965,429
Closet bowls and flush tanks.....	5		389,141
Lavatories and bathtubs.....	5		231,600
Laundry tubs and kitchen sinks.....	5		529,032
Other fixtures.....	24		2,815,656
Porcelain electrical supplies (exclusive of fittings).....	52		22,135,474
Insulators.....	22		13,899,795
Knobs, tubes, and cleats.....	15		1,575,285
Other electrical supplies.....	29		6,680,394
Garden pottery.....	18		368,634
Art pottery.....	55		2,325,123
Saggers.....	77		1,307,960
Other pottery products.....	54		6,097,439

**SAND-LIME BRICK \***

Bricks made from a combination of sand and lime, total.....	40	<i>Thousands</i> 269,584	\$2,909,635
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**STATUARY AND ART GOODS, FACTORY PRODUCT**

[Principal products: Ornamental plasterwork, architectural sculptures, ecclesiastical statuary, small images, plastercasts, cast bronze statuary, vases, urns, and other art goods of cement, plaster, and composition.]			
(Commodities not reported in detail).....	171		\$10,045,159

## INDUSTRY GROUP 10.—STONE, CLAY, AND GLASS PRODUCTS—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>WALL PLASTER, WALL BOARD, INSULATING BOARD, AND FLOOR COMPOSITION</b>			
Aggregate.....	( <sup>2</sup> )	Tons	\$76,330,343
Wall plasters, total.....	<sup>3</sup> 165	3,310,615	25,936,198
Gypsum plasters, total.....	<sup>3</sup> 95	3,137,108	20,683,228
Neat plaster (unfibred).....	55	442,907	3,566,257
Sanded plaster.....	44	336,122	2,240,291
Fibred plaster.....	71	1,939,313	10,408,142
Gaging and finish plaster.....	26	72,535	958,911
Plaster of Paris, including molding and casting, pottery, foundry, terra cotta, dental and plate glass plaster.....	30	226,153	2,071,429
Other gypsum plaster.....	26	120,078	1,438,198
Other plasters, total.....	<sup>3</sup> 94	173,507	5,252,970
Magnesite stucco.....	19	10,338	450,679
Portland-cement stucco.....	59	55,827	1,728,321
Other.....	48	107,342	3,073,970
Gypsum board, total.....	<sup>3</sup> 36	1,118,733	17,698,082
Wall board.....	31	764,367	12,230,859
Plaster board and lath.....	32	354,416	5,467,223
Fiber wall and insulating board and flexible fiber insulation, total.....	<sup>3</sup> 39		30,046,379
Fiber wall board and rigid fiber insulation.....	35		27,430,559
Flexible fiber insulation.....	5	Square feet 88,634,953	2,615,820
Floor composition, total.....	<sup>3</sup> 43		2,649,684
Magnesite.....	31		1,193,388
Mastic (hot and cold).....	11		578,523
Premixed concrete or cement.....	6		55,660
Other.....	11		822,113

<sup>1</sup> The statistics for these industries are combined because the products of each industry are made to a considerable extent as secondary products in the other industry.

<sup>2</sup> The aggregate numbers of establishments—i. e., the sums of the several items for a given group of products—are not shown because such aggregates would greatly overstate the actual numbers of establishments reporting the groups of products in question. This condition arises because in practically all cases each establishment is engaged in the manufacture of more than one of the individual products or classes of products. The net numbers of establishments reporting the several groups of products are not shown by the census tabulations.

<sup>3</sup> Inasmuch as some establishments manufacture more than 1 kind of product, the totals in this column are smaller than the sum of the figures below them.

<sup>4</sup> Includes values of asbestos flexible roofing, asbestos wall tile, and miscellaneous asbestos building materials.

<sup>5</sup> Includes values of molded asbestos blocks, molded composition insulators, high-temperature cements, asbestos ebony, asbestos paper, and miscellaneous products.

<sup>6</sup> The amounts under this heading represent products manufactured during the period covered, whether sold or not.

<sup>7</sup> Includes value of other products made in industry, but does not include value of crucibles made as secondary products in other industries. Actual value of crucibles manufactured in all industries reporting them as either major or minor products, \$2,751,736.

<sup>8</sup> Includes value of other products made in industry, but does not include value of glass products (except mirrors) made as secondary products in other industries. Actual value of glass products manufactured in all industries reporting them as either major or minor products, \$43,837,697.

<sup>9</sup> A considerable amount of graphite is ground and refined in other industries, but the value can not be shown without disclosing data for individual establishments.

<sup>10</sup> Includes value of other products made in industry, but does not include value of hones, whetstones, and similar products made as secondary products in other industries. Actual value of hones, whetstones, and similar products manufactured in all industries reporting them as either major or minor products, \$974,801.

<sup>11</sup> The figures in this column do not include stonework, valued at \$178,146, reported as a secondary product by establishments classified in other industries.

## INDUSTRY GROUP 11.—IRON AND STEEL AND THEIR PRODUCTS, NOT INCLUDING MACHINERY

[This table presents statistics for all commodities covered by the Census of Manufactures classification, except those for which the figures must be withheld from publication in order to avoid disclosing, exactly or approximately, the data reported by individual establishments. (See sec. 7 of General Explanations)]

PRODUCT	Number of establishments	Quantity	Value
<b>BLAST FURNACES<sup>1</sup></b>			
Aggregate.....	(?)		\$766,069,804
Pig iron (including ferroalloys), total.....	105	<i>Tons</i> 42,486,758	744,588,193
For consumption in other plants of the same company.....		32,582,807	
Assigned value.....			543,722,095
For sale.....		9,903,951	200,866,098
Blast-furnace gas used as fuel, coal equivalent, total.....	89	<i>Short tons</i> 13,927,228	
Consumed by blast-furnace departments.....		8,190,550	
Transferred to plants other than blast furnaces.....		5,736,678	
Assigned value.....			19,019,252
Slag (granulated; slag for roofing, paving, etc.).....	53		2,462,419
Pig iron (including ferro-alloys) classified by smelting fuel:			
Coke, total.....	101	<i>Tons</i> 42,361,895	741,632,459
For consumption.....		32,582,727	
For sale.....		9,779,168	
Charcoal.....	7	124,863	2,955,734
Pig iron (including ferro-alloys made in blast-furnace industry) classified by grade:			
Basic, total.....	68	25,065,384	
For consumption.....		22,384,938	
For sale.....		2,680,446	
Bessemer, total.....	37	9,463,782	
For consumption.....		9,131,242	
For sale.....		332,540	
Foundry, total.....	54	4,358,228	
For consumption.....		395,639	
For sale.....		3,962,589	
Malleable, total.....	29	2,349,937	
For consumption.....		274,325	
For sale.....		2,075,612	
Low-phosphorus, for consumption and for sale.....	9	370,863	
Forge or mill, for consumption and for sale.....	12	152,063	
White, mottled, and miscellaneous, for consumption and for sale.....	4	39,429	
Ferro-alloys, total.....	18	648,132	
For consumption.....		122,890	
For sale.....		525,242	
Direct castings for consumption.....	30	38,940	
Pig iron (including ferro-alloys made in blast-furnace industry) classified by method of delivery or casting:			
Delivered molten.....	58	29,463,804	
Machine cast.....	88	11,332,479	
Sand cast.....	17	1,179,181	
Chill cast.....	11	472,354	
Direct castings.....	35	38,940	

See footnotes on p. 99.

## INDUSTRY GROUP 11.—IRON AND STEEL AND THEIR PRODUCTS, NOT INCLUDING MACHINERY—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>CAST-IRON PIPE</b>			
Aggregate.....	(?)		\$85,890,086
		<i>Short tons</i>	
Cast-iron pipe and fittings.....	84		
Reported with quantity.....		1,736,207	78,296,375
Reported without quantity.....			7,593,711
Bell and spigot pipe.....	27	1,222,695	44,706,517
Flanged pipe.....	13	22,473	1,183,873
Culvert pipe.....	6	21,391	1,108,859
Soil and plumbers' pipe and fittings.....	47	357,626	18,762,849
Cast-iron fittings for water, gas, steam, and other purposes, total.....	35		20,127,988
Reported with quantity.....		112,022	12,534,277
Reported without quantity.....			7,593,711
<b>CUTLERY (NOT INCLUDING SILVER AND PLATED CUTLERY) AND EDGE TOOLS</b>			
Aggregate.....	(?)		\$81,312,480
Cutlery:			
Table and kitchen cutlery.....	40		7,776,263
Razors and razor blades—			
Safety razors (all types).....	7		1,823,657
Safety-razor blades.....	17		39,967,357
Other razors.....	7		404,085
Scissors and shears.....	18		3,062,730
Pocket knives.....	31		5,333,133
Edge tools:			
Axes, adzes, and hatchets.....	22		5,105,479
Augers, bits, gimlets, and countersinks (woodworking only).....	17		2,223,844
Chisels (except cold chisels).....	19		896,110
Cutting dies (for use in cutting cloth, paper, leather, etc.).....	65		3,981,074
•Cutlery—other and not specified <sup>6</sup> .....	79		6,630,910
•Edge tools—other and not specified <sup>6</sup> .....	44		4,107,838
<b>DOORS, SHUTTERS, AND WINDOW SASH AND FRAMES, METAL</b>			
Aggregate.....	(?)		\$69,368,909
Hollow metal doors:			
Brass and bronze.....	10		218,614
Iron and steel.....	59		6,875,533
Hollow metal window sash:			
Brass and bronze.....	4		53,062
Iron and steel.....	40		1,426,578
Hollow metal window and door frames:			
Brass and bronze.....	5		207,300
Iron and steel.....	43		6,976,076
Hollow metal molding and trim:			
Brass and bronze.....	9		461,461
Iron and steel.....	21		1,493,460
•Casement windows and frames (iron and steel).....	37		11,844,606
•Fire-retardant doors, window sash and frames, metal covered:			
Tinclad.....	53		1,412,577
Steel covered.....	27		1,700,668
Kalamain.....	69		4,263,729
Brass and bronze.....	14		385,970
Other, and not specified.....	30		1,450,924
•Solid metal doors, window sash, and window and door frames:			
Brass and bronze.....	5		276,623
Iron and steel.....	42		30,316,728

See footnotes on p. 99.

INDUSTRY GROUP 11.—IRON AND STEEL AND THEIR PRODUCTS, NOT INCLUDING MACHINERY—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>FILES</b>			
Aggregate.....	(2)		\$13,609,392
Metal-working files and rasps.....	28	<i>Dozens</i> 8,247,179	13,030,895
Woodworking files and rasps.....	6	74,147	116,347
Other files and rasps.....	9		462,150

<b>FIREARMS</b>			
Aggregate.....	(2)		\$17,701,448
Firearms, total.....	730		16,413,061
Pistols and revolvers.....	8	<i>Number</i> 224,768	2,974,994
Rifles.....	10	457,676	4,572,123
Shotguns.....	15	589,271	8,865,944
Parts.....	16		\$1,288,357

**FORGINGS, IRON AND STEEL, NOT MADE IN PLANTS OPERATED IN CONNECTION WITH ROLLING MILLS**

[Principal products: Light and heavy drop and steam-hammer forgings. These include such commodities as parts for automobiles, engines, and agricultural implements; car axles, wheels, frogs and switches, anchors; anvils; vises; wrenches; chains; and general miscellaneous forgings]

(Commodities not reported in detail).....	218		\$156,248,947
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**GALVANIZING AND OTHER COATING, NOT DONE IN ROLLING MILLS**

[The coating of sheet iron with zinc (galvanizing or sherardizing), aluminum, lead, etc., and retilning]

(Commodities not reported in detail).....	65		\$7,666,541
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**HARDWARE, NOT ELSEWHERE CLASSIFIED**

Aggregate.....	(2)		\$220,917,832
Builders' hardware, other than locks.....	166		58,308,832
Locks, total.....	7100		31,624,290
Cabinet.....	20		4,456,497
Padlocks.....	26		6,547,317
Trunk, suitcase, and luggage.....	12		2,197,084
Other.....	61		21,422,492
Casket hardware.....	42		5,912,207
Furniture and cabinet hardware other than locks.....	74		17,138,072
Piano and organ hardware.....	10		400,619
Saddlery and harness hardware.....	21		3,773,008
Trunk and suitcase hardware other than locks.....	23		2,486,869
Vehicle hardware other than locks:			
Motor vehicle.....	55		60,812,953
Other vehicle.....	10		410,994
Vacuum bottles, jugs, etc.....	7		5,466,131
Other hardware and hardware not reported by class.....	264		31,583,837

**IRON AND STEEL, PROCESSED**

[The establishments classified under this head are those engaged primarily in "heat treating"—harder tempering, annealing, etc.—or otherwise treating iron and steel]

(Commodities not reported in detail).....	46		\$3,84
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## INDUSTRY GROUP 11.—IRON AND STEEL AND THEIR PRODUCTS, NOT INCLUDING MACHINERY—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>PLUMBERS' SUPPLIES, NOT INCLUDING PIPE OR VITREOUS OR SEMIVITREOUS CHINA OR PORCELAIN (ALL CLAY) SANITARY WARE</b>			
Aggregate.....	(2)		\$137,463,414
Enameled-iron sanitary ware, total.....	725		45,288,155
		<i>Number</i>	
Bathtubs.....	23	943,905	21,355,370
Laundry tubs.....	16	175,319	3,010,594
Lavatories.....	24	1,116,847	8,050,040
Sinks.....	25	1,210,615	12,872,142
Bathtubs and sinks, made of sheet metal and black iron.....	5		218,941
Range boilers, galvanized <sup>11</sup> .....	14	783,044	4,616,180
Range boilers, copper <sup>11</sup> .....	10	35,193	1,293,941
Plumbers' brass goods, total.....	7181		65,606,374
Valves, faucets, and spigots reported separately.....	121		32,834,213
Other plumbers' brass goods, including valves, faucets, and spigots, not reported separately.....	131		32,772,161
Other plumbers' supplies.....	143		20,439,823

**SAFES AND VAULTS**

[Principal products: Fireproof and burglar-proof safes and vaults for banks, offices, and residences; money chests; safe-deposit boxes; and safe locks]

(Commodities not reported in detail).....	27		\$19,362,192
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**SAWS**

Aggregate.....	(2)		\$20,397,966
Woodworking saws:			
Power-saw blades—			
Circular.....	35		3,714,411
Other power-saw blades.....	26		2,961,514
Handsaws.....	18		5,342,354
Metal-working saws:			
Power-saw blades.....	20		1,706,468
Hand-hack-saw blades.....	14		3,593,961
Other types, and undistributed as to kind.....	28		3,079,228

**SCREW-MACHINE PRODUCTS AND WOOD SCREWS**

Aggregate.....	(2)		\$104,458,355
Screw-machine products.....	316		91,468,367
Wood screws <sup>12</sup> .....	23		12,989,988

**SPRINGS, STEEL, EXCEPT WIRE, NOT MADE IN ROLLING MILLS**

Aggregate.....	(2)		\$50,298,875
Flat springs:			
Leaf springs for railroad equipment, motor vehicles, carriages, wagons, etc., total.....	92		43,898,745
Reported with quantity.....		<i>Short tons</i>	
Reported without quantity.....		301,308	33,738,915
Hot-wound springs (railroad), total.....	12		10,159,830
Reported with quantity.....		72,937	6,400,130
Reported without quantity.....			6,276,641
			123,489

INDUSTRY GROUP 11—IRON AND STEEL AND THEIR PRODUCTS, NOT INCLUDING MACHINERY—Continued

PRODUCT	Number of establishments	Quantity	Value
Aggregate.....	(?)		\$490,981,999
Steam and hot-water heating apparatus, total.....	7 75		90,679,061
Cast-iron steam and hot-water heating boilers.....	53		33,152,631
Steel steam and hot-water boilers.....	19		5,332,172
Parts.....	31		1,839,603
Radiators, total.....	7 61		41,116,099
Cast-iron.....	51		37,919,080
Copper.....	6		2,757,207
Other.....	5		439,812
Unit heaters, total.....	27		9,238,556
		<i>Number</i>	
Reported with number.....		48,491	7,761,791
Reported without number.....			1,476,765
Warm-air furnaces, parts and registers, total.....	7 292		43,311,273
Warm-air furnaces.....	221	378,546	32,579,551
Parts and registers.....	96		10,731,722
Stoves, ranges, water heaters, and parts, total.....	7 354		181,437,004
Coal and wood, total.....	7 215		66,593,923
Coal and wood cooking stoves and ranges, total.....	7 169	739,523	32,098,463
Porcelain-enameled.....	124	353,741	21,375,485
Other.....	121	324,296	8,762,852
Not reported separately as to kind.....	7	61,486	1,960,126
Coal and wood heating stoves, aggregate.....	7 126	886,721	23,621,431
Porcelain-enameled.....	84	425,506	18,014,935
Other than porcelain and enamel.....	102	415,455	4,878,038
Coal and wood heating stoves not separately reported as to kind.....	5	45,760	728,458
Coal and wood water heaters (domestic).....	35	(1 <sup>5</sup> )	1,443,897
Stoves, ranges, and water heaters, not separately reported as to kind, total.....	19		5,784,105
Reported with number.....		219,506	3,193,891
Reported without number.....			2,590,214
Parts for coal and wood stoves, ranges, and water heaters.....	108		3,646,027
Gas, aggregate.....	7 266		93,772,195
Gas cooking stoves and ranges, aggregate.....	7 152	1,602,427	57,354,006
Porcelain enameled—			
With insulated ovens.....	45	155,934	7,069,985
With uninsulated ovens.....	94	957,199	35,940,896
Not separately reported as to insulation.....	32	191,339	6,809,371
Other—			
With insulated ovens.....	7	12,541	280,650
With uninsulated ovens.....	34	256,762	6,803,973
Not separately reported as to insulation.....	15	28,652	449,131
Gas room heaters, total.....	7 99		11,569,718
Reported with number.....		997,422	10,274,592
Reported without number.....			1,295,126
Gas water heaters (domestic supply).....	67	894,785	18,203,497
Gas stoves, ranges, and heaters, not reported separately as to kind.....	10		3,627,477
Parts for gas stoves, ranges, and heaters.....	69		3,017,497
Kerosene, total.....	7 18	981,172	14,090,040
Kerosene cooking stoves and ranges, total.....	7 15	758,530	11,352,202
Porcelain-enameled.....	10	262,152	5,793,806
Other.....	11	496,378	5,558,396
Kerosene room heaters (all types), total.....	7 9	196,060	1,112,400
Porcelain-enameled.....	5	45,071	359,040
Other.....	7	150,989	753,360
Kerosene water heaters (domestic supply).....	9	26,582	447,100
Parts for kerosene cooking stoves, ranges, and heaters.....	11		1,177,000

See footnotes on p. 99.

## INDUSTRY GROUP 11.—IRON AND STEEL AND THEIR PRODUCTS, NOT INCLUDING MACHINERY—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>STEAM FITTINGS AND STEAM AND HOT-WATER HEATING APPARATUS, AND STOVES AND RANGES (OTHER THAN ELECTRIC) AND WARM-AIR FURNACES—Continued</b>			
Stoves, ranges, water heaters and parts—Continued.		<i>Number</i>	
Gasoline, total.....	7 15		\$3, 850, 533
Gasoline cooking stoves (except camp stoves) and ranges, total.....	14		2, 181, 760
Porcelain-enameled.....	8		1, 913, 094
Other.....	6	16, 402	268, 666
Gasoline water heaters (domestic).....	4	2, 137	42, 338
Gasoline camp stoves.....	6	130, 501	533, 618
Parts for gasoline cooking stoves, ranges, and heaters.....	8		1, 087, 817
Other stoves, ranges, and heaters.....	41		3, 130, 313
Fuel-oil burners (residence type), total.....	7 107		21, 354, 818
For furnaces.....	106	101, 950	19, 693, 666
For stoves and ranges.....	10	(13)	1, 661, 152
Stokers, mechanical (domestic).....	18	7, 031	1, 115, 637
Incinerators (household type), total.....	11		908, 391
Gas-operated.....	5		123, 764
Other.....	6		779, 627
Portable ovens (detachable ovens for use on oil, gasoline, and other stoves).....	18	734, 850	2, 882, 153
Steam tables.....	21		1, 321, 867
Other heating and cooking apparatus and supplies, total.....	7 04		7, 241, 420
Coal and wood burning.....	9		234, 942
Gas burning.....	42		1, 693, 579
Kerosene and gasoline burning.....	4		104, 082
Other 14.....	52		5, 203, 217
Fittings, valves, and specialties, total.....	7 170		140, 730, 375
Fittings and valves, total.....	7 63		90, 180, 053
Brass.....	32		21, 459, 655
Cast-iron (except bell and spigot).....	23		30, 212, 504
Malleable iron.....	17		24, 120, 220
Steel (cast and forged).....	13		10, 782, 058
Other and not separately reported.....	15		3, 605, 616
Specialties (gages, steam traps, reducing valves, thermostats, etc.).....	118		50, 550, 322

## STEEL BARRELS, KEGS, AND DRUMS

[Principal products: Steel barrels, kegs, and drums manufactured for use as shipping containers]

(Commodities not reported in detail).....	53		\$37, 825, 027
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## STEEL WORKS AND ROLLING MILLS 1, 13

Aggregate.....	(?)	<i>Tons (2,240 lbs.)</i>	
Unrolled steel, total.....	(?)		
Ingots, total.....	125	56, 160, 683	
For sale.....		54, 793, 683	
Transferred for consumption in other plants of same company.....		195, 634	\$6, 239, 183
Assigned value.....		465, 309	
Produced and consumed in same works.....		54, 132, 740	10, 910, 385
Direct steel castings, total.....	257		
For sale.....		16 1, 367, 000	
Transferred for consumption in other plants of same company.....		16 1, 158, 823	183, 480, 786
Assigned value.....		52, 952	
Produced and consumed in same works.....		16 155, 225	7, 916, 915

See footnotes on p. 99.

INDUSTRY GROUP 11.—IRON AND STEEL AND THEIR PRODUCTS, NOT INCLUDING MACHINERY—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>STEEL WORKS AND ROLLING MILLS<sup>1</sup>—Continued</b>			
<b>Semifinished rolled products:</b>			
For sale.....		<i>Tons</i> 6,714,525	\$35,550,798
Transferred for consumption in other plants of same company.....		6,064,635	185,776,910
Assigned value.....			
Produced and consumed in same works.....		35,749,447	
Blooms, billets, and slabs, steel, except for forging, total.....	102	17 38,819,107	
For sale.....		2,727,604	100,373,379
Transferred for consumption in other plants of same company.....		4,633,624	144,418,740
Assigned value.....			
Produced and consumed in same works.....		31,457,879	
Rolled blooms and billets for forging, total.....	29	657,808	
For sale and interplant transfer.....		269,675	10,326,862
Produced and consumed in same works.....		388,133	
Sheet and tin-plate bars, total.....	46	8,710,921	
For sale.....		3,751,311	125,657,607
Transferred for consumption in other plants of same company.....		1,310,421	36,658,608
Assigned value.....			
Produced and consumed in same works.....		3,649,189	
Muck and scrap bar, total.....	40	340,771	
For sale and interplant transfer.....		86,525	3,892,507
Produced and consumed in same works.....		254,246	
Finished rolled products and forgings, total.....	303	39,882,941	
For sale.....		27,261,988	1,451,841,437
Transferred for consumption in other plants of same company.....		3,088,283	152,991,522
Assigned value.....			
Produced and consumed in same works.....		9,532,670	
Rails, total.....	17	2,692,016	
For sale and interplant transfer.....		2,666,208	113,924,509
Produced and consumed in same works.....		25,808	
Rerolled or renewed rails (not including rails rerolled by makers of ingots from new seconds, defective new rails, etc.), total.....	7	72,087	
For sale and interplant transfer.....		56,830	1,932,790
Produced and consumed in same works.....		15,257	
Rail joints and fastenings, tie-plates, etc., total.....	30	877,066	
For sale and interplant transfer.....		872,349	47,760,823
Produced and consumed in same works.....		4,717	
Structural shapes (not assembled or fabricated), total.....	42	4,626,234	
Heavy (leg or web 3 inches and over), total.....	29	3,946,367	
For sale.....		3,650,028	152,547,908
Transferred for consumption in other plants of same company.....		211,809	9,013,734
Assigned value.....			
Produced and consumed in same works.....		84,530	
Light (leg or web less than 3 inches), total.....	33	679,867	
For sale.....		576,308	26,124,071
Transferred for consumption on other plants of same company.....		31,817	1,211,978
Assigned value.....			
Produced and consumed in same works.....		71,742	
Concrete-reinforcing bars (including twisted bars), for sale and interplant transfer.....	57	972,053	42,416,820
Merchant bars, mill shafting, etc., total.....	120	6,874,440	
Steel bars, total.....	100	6,676,166	
Open-hearth or Bessemer—			
For sale.....		5,082,380	252,121,971
Transferred for consumption in other plants of same company.....		984,803	53,188,755
Assigned value.....			
Electric-steel bars, for sale and interplant transfer.....		156,354	51,075,895

:See footnotes on p. 99.

## INDUSTRY GROUP 11.—IRON AND STEEL AND THEIR PRODUCTS, NOT INCLUDING MACHINERY—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>STEEL WORKS AND ROLLING MILLS<sup>1 16</sup>—Continued</b>			
Finished rolled products and forgings—Continued.			
Merchant bars, mill shafting, etc.—Continued.			
Steel bars—Continued.		<i>Tons</i>	
Crucible-steel bars, for sale and interplant transfer		4, 637	\$2, 214, 192
Produced and consumed in same works (open-hearth, Bessemer, electric-steel, and crucible-steel bars)		447, 992	
Iron bars (merchant, etc.), total	36	198, 274	
For sale		163, 710	12, 235, 809
Transferred for consumption in other plants of same company		23, 366	
Assigned value			1, 048, 044
Produced and consumed in same works		11, 198	
Wire rods, total	48	3, 151, 858	
For sale		783, 052	33, 045, 170
Transferred for consumption in other plants of same company		372, 130	
Assigned value			15, 996, 928
Produced and consumed in same works		1, 996, 676	
Bolt and nut rods, and spike and chain rods, total	30	433, 283	
For sale and interplant transfer		120, 980	5, 683, 340
Bolt and nut rods, produced and consumed in same works		155, 417	
Spike and chain rods, produced and consumed in same works		150, 886	
Plates (No. 12 and thicker) not coated, total	7 60	5, 284, 879	
Crucible plate steel and saw plates, for sale and interplant transfer	7	4, 131	1, 654, 927
Boiler and other plate, total	57	5, 280, 748	
For sale		5, 094, 309	221, 592, 771
Transferred for consumption in other plants of same company		120, 509	
Assigned value			4, 988, 482
Produced and consumed in same works		65, 930	
Sheets (No. 13 and thinner) not coated, total	7 92	7, 284, 905	
For sale—			
Automobile body	16	1, 132, 592	107, 163, 177
Black, for tinning or tin-mill black plate	29	135, 287	9, 671, 308
Plain	72	2, 551, 973	176, 813, 010
Transferred for consumption in other plants of same company—			
Automobile body		31, 210	
Assigned value			1, 941, 089
Black, for tinning or tin-mill black plate		7, 913	
Assigned value			507, 787
Plain		182, 104	
Assigned value			10, 839, 830
Produced and consumed in same works—			
Black, for tinning or tin-mill black plate		1, 827, 193	
Plain		1, 416, 663	
Skelp, total		3, 558, 050	
For sale	39	654, 721	25, 414, 922
Transferred for consumption in other plants of same company		616, 634	
Assigned value			24, 706, 274
Produced and consumed in same works		2, 286, 695	
Cotton ties, for sale		38, 216	1, 842, 250
Hoops, bands, and strips, total	7 44	2, 726, 171	
Hot-rolled strips for cold rolling—			
For sale		381, 859	16, 687, 505
Transferred for consumption in other plants of same company	25	96, 799	
Assigned value			4, 659, 018

See footnotes on p. 99.

INDUSTRY GROUP 11.—IRON AND STEEL AND THEIR PRODUCTS, NOT INCLUDING MACHINERY—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>STEEL WORKS AND ROLLING MILLS<sup>1</sup>—Continued</b>			
Finished rolled products and forgings—Continued.			
Hoops, bands, and strips—Continued.			
Other hoops, bands, and strips—			
For sale.....	29	<i>Tons</i> 1,456,929	\$70,201,164
Transferred for consumption in other plants of same company.....		70,873	
Assigned value.....			3,583,073
Hot-rolled strips for cold rolling, produced and consumed in same works.....		583,502	
Other hoops, bands, and strips, produced and consumed in same works.....		136,209	
Nail and tack plate, <sup>18</sup> produced and consumed in same works.....		8,198	
Axles, rolled or forged, for sale and interplant transfer.....	11	150,448	12,038,622
Car and locomotive wheels, rolled or forged, for sale and interplant transfer.....	8	209,182	19,352,111
Plate and armor ordnance, for sale.....	6	9,939	3,287,261
Rolled and forged iron and steel products, not elsewhere specified.....		913,916	
For sale <sup>18</sup> .....		534,419	57,482,680
Transferred for consumption in other plants of same company <sup>18</sup> .....		141,440	
Assigned value.....			8,862,992
Produced and consumed in same works.....		238,057	
Scrap iron and steel, total.....	288	16,818,460	
For sale.....		1,871,891	28,894,147
Transferred for consumption in other plants of same company.....		958,170	
Assigned value.....			13,207,281
Produced and consumed in same works.....		13,988,399	
Cinder and scale, total.....	189	3,340,568	
For sale.....		432,010	1,163,744
Transferred for consumption in other plants of same company.....		762,322	
Assigned value.....			1,567,313
Produced and consumed in same works.....		2,146,236	
Principal manufactures from rolling mill products (figures for tin plate and wire products are presented separately on page 97): <sup>19</sup>			
Railroad spikes.....	19	<i>Kegs, 200 lbs.</i> 1,857,105	10,337,883
Bolts, nuts, rivets, washers, etc., all industries, total.....	212		126,507,797
Made in rolling-mill industry.....	27		13,890,021
Made in other industries.....	185		107,617,776
Railroad boiler, bridge, and structural bolts, nuts, rivets, washers, etc.—			
Reported with quantity.....		2,722,569	27,392,037
Reported without quantity.....			3,370,856
Other bolts, nuts, rivets, washers, etc.—			
Reported with quantity.....		5,511,180	74,094,110
Reported without quantity.....			21,650,794
Cut and wrought nails, spikes, and tacks, all industries, total.....	33		7,503,760
Made in rolling mills (nails and spikes only).....	4	<i>Kegs, 100 lbs.</i> 421,320	1,170,720
Made in other industries, total.....	29		6,333,040
Cut nails and spikes and cut tacks.....	29	<i>Pounds</i> 44,304,835	5,200,198
Horseshoe nails.....	4	<i>Kegs, 100 lbs.</i> 98,750	1,132,842

See footnotes on p. 99.

## INDUSTRY GROUP 11.—IRON AND STEEL AND THEIR PRODUCTS, NOT INCLUDING MACHINERY—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>STEEL WORKS AND ROLLING MILLS</b> <sup>1 16</sup> —Continued			
Galvanized plates, sheets, and strips.....	30		
Plain.....	29	<i>Long tons</i> 959, 524	\$77, 566, 887
Corrugated or crimped.....	22	306, 423	26, 362, 771
Corrugated or crimped sheets, not galvanized, made in rolling mills industry.....	13	<i>Long tons</i> 5, 285	380, 388
Wrought pipes and tubes, all industries, total <sup>20</sup> .....	791		455, 276, 528
Wrought welded—			
Boiler tubes, all industries.....	7	40, 628	4, 851, 283
Oil-country casing, tubing, and pipe, made in rolling-mills industry.....	8	888, 338	61, 707, 710
Other black pipe, made in rolling-mills industry.....	14	936, 532	70, 747, 068
Galvanized pipe, made in rolling-mills industry.....	10	385, 799	36, 568, 201
Oil-country casing, tubing, and pipe, not made in rolling mills industry.....	13	493, 330	39, 652, 352
Other black pipe, not made in rolling-mills industry.....	23	531, 289	45, 172, 186
Mechanical tubing, not made in rolling mills industry.....	15		
Reported with quantity.....		77, 178	11, 486, 952
Reported without quantity.....			3, 147, 544
Galvanized pipe, not made in rolling-mills industry.....	8	171, 929	19, 239, 584
Heavy riveted and lock-joint, all industries.....	85		10, 252, 415
Seamless, made in rolling-mills industry—			
Boiler tubes.....	9	185, 369	21, 723, 457
Oil-country casing, tubing, and pipe.....	13	832, 732	81, 369, 391
Other black pipe and galvanized pipe.....	6	60, 023	7, 150, 041
Mechanical tubing.....	12	229, 035	42, 208, 344
Horse and mule shoes.....	9	<i>Kegs, 100 lbs.</i> 417, 182	2, 663, 713
Horse and mule shoe calks.....	10		538, 663
Cold-rolled strip steel, flat bright, all industries, total <sup>21</sup> .....	745	<i>Long tons</i> 952, 812	83, 647, 021
Made in rolling mill industry.....	20	642, 302	50, 931, 596
Made in other industries.....	25	310, 510	32, 715, 425
Widths 6 inches and narrower.....	32	348, 480	39, 536, 721
Wider than 6 inches and under 12 inches.....	20	220, 729	18, 335, 481
Widths 12 inches and wider (not including motor-vehicle fender steel).....	12	282, 407	18, 807, 612
Fender steel (for motor-vehicle fenders).....	10	101, 196	6, 967, 207
Cold-finished steel bars, all industries, total.....	748		71, 755, 647
Made in rolling-mills industry.....	12	271, 727	22, 782, 963
Made in other industries.....	36		48, 972, 682
Rounds, 2 inches in diameter and smaller.....	37		
Reported with quantity.....		371, 854	31, 170, 912
Reported without quantity.....			4, 742, 755
Rounds, larger than 2 inches in diameter.....	22		
Reported with quantity.....		119, 579	8, 600, 582
Reported without quantity.....			2, 373, 663
Shapes (square, hexagon, and flat).....	24		
Reported with quantity.....		237, 298	18, 515, 402
Reported without quantity.....			1, 280, 632
Cold-finished steel bars (rounds) not distributed as to kind.....			5, 071, 699
Bearings and parts, ball and roller, total.....	770		120, 033, 812
Ball bearings and parts.....	51		66, 880, 624
Roller bearings and parts.....	31		53, 153, 188
Rolls for rolling mills.....	42		
Steel.....	15	45, 752	6, 852, 508
Iron.....	32	126, 074	14, 533, 031

See footnotes on p. 99.

INDUSTRY GROUP 11.—IRON AND STEEL AND THEIR PRODUCTS, NOT INCLUDING MACHINERY—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>STRUCTURAL AND ORNAMENTAL IRON AND STEEL WORK, NOT MADE IN PLANTS OPERATED IN CONNECTION WITH ROLLING MILLS</b>			
[Principal products: Balconies, bank fixtures, beams, coal chutes, columns, crane girders, elevator inclosures, elevator cars, expanded metal for plaster and concrete work, fences, fire escapes, fireproof moving-picture booths, gratings, girders, portable steel buildings, and other structural and ornamental iron and steel work]			
(Commodities not reported in detail).....	1,482		\$477,086,827

**TIN CANS AND OTHER TINWARE, NOT ELSEWHERE CLASSIFIED**

Aggregate.....	(2)		\$283,809,763
		<i>Number</i>	
Hole-top cans chiefly for evaporated milk.....	29	1,711,691,917	20,734,311
Sanitary cans.....	47	5,526,838,732	122,020,557
General-line cans and packages.....	143		
Reported with quantity.....		2,908,271,900	120,965,466
Reported without quantity.....			8,563,409
Ice-cream cans.....	8	1,097,826	1,819,905
Milk cans (dairy cans).....	10	1,704,307	3,979,393
Other tinware, except stamped <sup>22</sup> .....	47		5,726,722

**TIN PLATE AND TERNEPLATE <sup>1</sup>**

Aggregate.....	(2)		\$213,084,656
		<i>Pounds</i>	
Tin plate, total.....	751	4,031,856,278	194,107,222
Coke plate.....	50	3,958,323,114	189,050,613
Charcoal plate.....	27	73,533,164	5,056,609
Terneplate, including long terne.....	24	345,592,260	15,567,965
Other products, including tin dross, scruff, scrap, etc.....	21		3,409,469

**TOOLS, NOT INCLUDING EDGE TOOLS, MACHINE TOOLS, FILES, OR SAWS**

[Principal products: Plumbers' and tinnors' tools, stonecutters' tools, drills (for both hand and power drilling appliances), reamers, wrenches, punches, pliers, calking tools, nail pullers, and other mechanical hand tools, except edge tools, files, and saws; other hand tools and implements, such as shovels, scoops, hoes, rakes, forks, etc.]

(Commodities not reported in detail).....	534		\$99,462,032
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**WIRE AND WIRE PRODUCTS <sup>1</sup>**

Aggregate <sup>23</sup> .....	(2)		\$919,983,031
Products of wire-drawing establishments.....	(24)		553,509,538
Products of establishments that use purchased wire as material.....	(24)		365,478,493
Bare wire, for sale and for interplant transfer.....	(24)		283,061,494
Wire products, total.....	(24)		636,926,537
Iron and steel wire products, total.....	7259		288,451,853
		<i>Kegs, 100 lbs.</i>	
Nails, brads, and spikes, total.....	761	13,600,673	44,934,890
Bright, not including galvanized or other coated.....	(24)	10,302,272	31,738,404
Galvanized.....	(24)	1,008,176	5,385,058
Cement coated.....	(24)	2,290,225	7,811,428
		<i>Pounds</i>	
Tacks, wire.....	66	6,540,281	640,072
Staples, wire.....		53,878,705	2,342,378

See footnotes on p. 99.

## INDUSTRY GROUP 11.—IRON AND STEEL AND THEIR PRODUCTS, NOT INCLUDING MACHINERY—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>WIRE AND WIRE PRODUCTS</b> <sup>1</sup> —Continued			
Iron and steel wire products—Continued.			
Barbed wire, plain and coated.....	41	<i>Tons</i> (2,000 lbs.) 221, 809	\$13, 824, 143
Rope and cable, except insulated, reported with quantity.....	25	153, 304	46, 876, 871
Strand, galvanized, reported with quantity.....	23	48, 565	5, 617, 900
Poultry netting, reported with quantity.....	22	46, 733	7, 536, 147
Woven-wire fence, except poultry netting reported with quantity.....	65	365, 505	31, 041, 091
		<i>Pounds</i>	
Fly screening, reported with quantity.....	22	64, 728, 176	9, 942, 027
Other wire cloth, reported with quantity.....	31	31, 106, 928	4, 995, 659
Other wire cloth.....	20		1, 559, 316
Other woven wire, except wire cloth, reported with quantity.....	26	<i>Tons</i> 138, 830	11, 786, 472
		<i>Pounds</i>	
Bale ties.....	33	148, 474, 426	5, 088, 035
Wire springs, total.....	7 99	(18)	47, 903, 132
Furniture and other upholstery (including mattress) springs.....	42	(18)	25, 344, 315
Valve springs for internal-combustion engines.....	13	(18)	3, 314, 728
Miscellaneous spiral springs.....	38	(18)	10, 954, 730
Other wire springs.....	38	(18)	5, 181, 930
Flat springs (wire and strip steel), coiled.....	19	(18)	3, 107, 429
Automobile skid chains.....	12		
		<i>Tons</i>	
Reported with quantity.....		6, 498	8, 987, 494
Reported without quantity.....			2, 503, 907
Other fabricated iron and steel wire products <sup>25</sup> .....	165		42, 872, 310
Nonferrous wire products:			
Fly screening.....	23		
		<i>Pounds</i>	
Copper.....	14	4, 993, 338	1, 768, 201
Other metals.....	12	10, 210, 589	3, 336, 196
Fourdriner and cylinder wire cloth.....	21	3, 107, 604	4, 764, 950
Other wire cloth.....	21		
Copper.....		1, 168, 029	587, 986
Other metals.....		1, 450, 097	683, 489
Copper strand, except insulated.....	20	92, 395, 338	18, 616, 600
Other fabricated nonferrous wire products, except insulated wire—			
Copper.....	25		1, 905, 640
Brass.....	13		2, 471, 938
Other metals.....	43		1, 747, 501
Insulated wire and cable, total.....	7 98		312, 592, 093
Insulated wire and cable reported by kind of insulation—			
Rubber insulated—			
Lighting and power circuit—			
Braided.....	37		51, 130, 555
Leaded.....	19		23, 037, 318
Telephone.....	15		11, 742, 261
Flexible cords (rubber-insulated, cotton and silk covered).....	31		20, 189, 102
Cotton insulated—			
Weatherproof.....	25		42, 011, 680
Slow-burning.....	9		4, 296, 141
Paper insulated—			
Lighting and power circuit and telephone and telegraph cable (including submarine).....	16		96, 227, 728
Varnished-cambrie insulated.....	15		7, 209, 890
Magnet—			
Cotton and silk covered.....	23		18, 777, 088
Enameled.....	23		30, 641, 417
Other insulated wire and cable, including asbestos and that not distributed by kind of insulation.....	7		7, 323, 913

<sup>1</sup> The amounts under this heading represent products manufactured during the period covered, whether sold or not.

<sup>2</sup> The aggregate numbers of establishments—i. e., the sums of the several items for a given group of products—are not shown because such aggregates would greatly overstate the actual numbers of establishments reporting the groups of products in question. This condition arises because in practically all cases each establishment is engaged in the manufacture of more than one of the individual products or classes of products. The net numbers of establishments reporting the several groups of products are not shown by the census tabulations.

<sup>3</sup> Includes a small tonnage produced by a combination of coke and coal.

<sup>4</sup> Stamped tinware is classified in the "Stamped ware, enameled ware, etc." industry.

<sup>5</sup> Knives for use in machines, other than agricultural; artisans' knives; barbers', animal, and other hand-power clippers; butcher knives and cleavers; knives, not reported by kind; and blades for these knives.

<sup>6</sup> Machetes, picks, mattocks, putty knives, planes, gouges, and wood-working tools not reported by kind.

<sup>7</sup> Inasmuch as some establishments manufacture more than one kind of product, the totals in this column are smaller than the sum of the figures below them.

<sup>8</sup> Includes value of ordnance and ordnance accessories made by commercial manufacturers.

<sup>9</sup> The term "not made in plants operated in connection with rolling mills" refers to plants having no connection with rolling mills, or in cases where plants are under the same ownership as a rolling mill they are operated as independent units and not located adjacent to the rolling mill.

<sup>10</sup> This amount does not include the total production of forgings as they are made to a large extent in industries which do not classify them as forgings; (example: Tools, castings, etc. for which separate classifications are provided) and in industries which made and installed them as parts in finished products. Neither does it include the amount of forgings made in the steel works and rolling mills industry.

<sup>11</sup> For data on water heaters, see reports on "Stoves and ranges," etc., industries.

<sup>12</sup> Reported by quantity, 53,605,939 gross, valued at \$10,725,174; not reported by quantity, \$2,264,814.

<sup>13</sup> Data incomplete.

<sup>14</sup> Orchard heaters, gas burners, direct and indirect water heaters (heated by exhaust steam), charcoal burners, sunheaters, etc.

<sup>15</sup> In addition to the manufactured products shown in this table, steel works and rolling mills reported the production of the following commodities: Fabricated structural steel, 272,116 tons, valued at \$17,020,628; switches, frogs, and crossings, 98,325 tons, \$14,642,811; gray-iron castings, 520,057 tons, \$14,267,832; malleable-iron castings, 29,068 tons, \$3,422,660; nonferrous-metal castings, 5,965 tons, \$3,839,087; pressed, stamped, and other shapes, not advanced beyond pressing, 67,720 tons, \$4,391,541; machinery, \$11,902,908; miscellaneous products, which include steel springs, cast-iron car and locomotive wheels, chain, fence posts, stay bolts, fabricated sheet piling, etc., \$40,511,040. Figures on the total output of these products in all industries are shown, if available, in the statistics for the industries in which they are principally manufactured.

<sup>16</sup> In addition, 33,550 tons of steel castings, valued at \$6,635,760, were produced for sale by establishments classified in other industries; and 53,980 tons were reported as produced and consumed in the same works in further manufacture by establishments in the "Foundry and machine shop products, not elsewhere classified" industry. Steel castings are also produced and consumed in further manufacture to some extent in other industries, but no data in regard to such production are collected.

<sup>17</sup> Includes data for small quantities (amounting to less than one-tenth of 1 per cent of the total), of hammered charcoal blooms, billets, etc., which can not be shown separately without disclosing data for individual establishments.

<sup>18</sup> The "For sale" and "Interplant transfer" tonnages and values of nail and tack plate are included in the "For sale" and "Interplant transfer" tonnages and values shown for rolled and forged iron and steel products not elsewhere specified in order to avoid disclosing the output of individual establishments.

<sup>19</sup> Tin plate and terneplate; wire and wire products; pipes and tubes; bolts, nuts, washers, and rivets; cut nails and spikes; galvanized plates and sheets; corrugated sheets; cold-rolled strip steel; flat bright; cold-finished steel bars; horseshoes; railroad spikes; iron and steel rolls for rolling mills; and ball and roller bearings.

<sup>20</sup> Not including couplings and nipples reported separately.

<sup>21</sup> Not including cold-rolls from drawn wire.

<sup>22</sup> Stamped tinware is classified in the "Stamped ware, enameled ware, and metal stamping, enameling, japanning, and lacquering" industry.

<sup>23</sup> Includes a considerable but indeterminate amount of duplication because of the use of plain wire made in wire-drawing plants as material by plants engaged in making fabricated wire products and insulating wire.

<sup>24</sup> The net number of establishments reporting the several products are not shown by the census tabulations.

<sup>25</sup> Some of the more important miscellaneous fabricated-wire products included in this item are wire guards, garment hangers, partitions, and grilles, lamp-shade frames, kitchen wire goods, baskets, cages, belt lacing, florists' designs, bathroom fixtures and chain, other than automobile skid chain, etc.

## INDUSTRY GROUP 12.—NONFERROUS METALS AND THEIR PRODUCTS

[This table presents statistics for all commodities covered by the Census of Manufactures classification, except those for which the figures must be withheld from publication in order to avoid disclosing, exactly or approximately, the data reported by individual establishments. (See sec. 7 of General Explanations)]

PRODUCT	Number of establishments	Quantity	Value
<b>ALUMINUM MANUFACTURES</b>			
Aggregate.....	(1)		\$161,994,398
Ware (principally cooking utensils and household articles).....	55		35,100,001
Motor-vehicle accessories and parts.....	24	<i>Pounds</i>	
Castings.....	392	15,333,432	7,466,752
Ingots produced for sale.....	(2)	82,979,337	38,267,674
Other aluminum manufactures, including rolled forms (bars, plates, and sheets).....	35	120,721,143	26,209,723
			54,860,248
<b>CLOCKS, WATCHES, AND PARTS</b>			
Aggregate.....	(1)		\$86,757,490
Clocks complete for use as timepieces only, total.....	439		25,512,288
Clocks, except alarm and electric—		<i>Number</i>	
With domestic movements—			
1-day clocks, except automobile and chime.....	9	722,490	1,134,467
8-day clocks, except automobile and chime.....	13	1,186,875	5,012,880
Automobile.....	6	248,032	1,184,730
Chime.....	8	66,285	1,025,965
With imported movements—			
Automobile.....	3	157,843	973,518
Other types.....	5	4,759	222,368
Alarm clocks, except electric.....	9	9,462,293	10,765,117
Electric clocks—			
Automobile.....	4	55,973	216,724
Other.....	21		
Reported with number.....		386,500	4,659,156
Reported without number.....			317,861
Clock movements:			
For use as timepieces only.....	8	668,636	720,935
For use in recording instruments, gages, time-stamps, switches, time locks, etc.....	11	239,078	1,633,830
Instruments and devices complete, with clockwork mechanism:			
Time stamps, watchmen's clocks, time switches, time locks, etc.....	18	129,310	1,790,382
Time-recording clocks.....	13	47,383	5,159,912
Clock materials and parts, including cases.....	24		1,071,430
Watches, watchcases, watch movements, and parts, total.....	463		50,860,013
Nonjeweled watches, men's and women's.....	5	9,479,979	9,072,554
Jeweled watches, complete—			
With domestic movements and cases, men's and women's.....	7	1,482,896	22,454,411
With cases produced and movements imported, men's and women's.....	9	40,930	1,318,436
Watchcases for sale separately—			
Solid platinum, gold, or silver—			
Men's.....	13	172,296	1,624,820
Women's.....	17	203,693	1,240,221
Gold filled—			
Men's.....	9	1,205,729	3,942,383
Women's.....	7	623,226	1,307,953
Other metals—			
Men's.....	10	1,075,335	899,213
Women's.....	9	476,331	445,348
Cases not reported by kind or quantity.....	11		2,043,648
Jeweled movements, watch materials, and parts (produced for sale as such).....	25		5,911,026

See footnotes on p. 106.

INDUSTRY GROUP 12.—NONFERROUS METALS AND THEIR PRODUCTS—Contd.

PRODUCT	Number of establishments	Quantity	Value
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**COLLAPSIBLE TUBES**

[This industry embraces establishments engaged primarily in the manufacture of collapsible tubes, made chiefly of tin, lead, and aluminum, for use as containers for tooth paste, shoe polish, shaving cream, etc.]

(Commodities not reported in detail).....	17	<i>Gross</i> 3,447,938	\$8,912,977
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**COPPER, TIN, AND SHEET-IRON WORK, INCLUDING GALVANIZED-IRON WORK, NOT ELSEWHERE CLASSIFIED**

[Principal products: Cornices, gutters, spouts, etc., for the exterior of buildings; radiator shields, stove and furnace pipes, ventilators and skylights, tanks and bins, and culverts; and coppersmithing and sheet-iron work]

(Commodities not reported in detail).....	2,161		\$222,484,625
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**ELECTROPLATING**

[The plating, by the electric process of various metal articles, such as automobile accessories, lighting fixtures, musical instruments, and jewelry, with gold, silver, nickel, or chromium]

(Commodities not reported in detail).....	534		\$23,727,916
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**FIRE EXTINGUISHERS, CHEMICAL**

[Principal products: Portable fire extinguishers, hose reels, and other apparatus (except motor-propelled apparatus), and appliances for fire extinguishing through the use of chemicals; chemical preparations for use with such appliances; hand grenades for fire extinguishers, etc.]

(Commodities not reported in detail).....	28		\$8,566,039
---	----	--	-------------

**GOLD LEAF AND FOIL**

Beating of gold into thin sheets for use in sign painting, decorating, bookbinding, etc., total.....	75	<i>Number of packs</i> 320,685	\$3,872,481
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**GOLD, SILVER, AND PLATINUM, REDUCING AND REFINING, NOT FROM THE ORE**

[Principal products: Gold, silver, and platinum refined and alloyed for jewelers' and silversmiths' use, made from old gold, silver, and platinum sweepings, clippings, and plated scrap, as well as from purchased bullion]

(Commodities not reported in detail).....	69		\$67,959,140
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**JEWELRY**

Aggregate.....	(1)		\$164,140,104
Jewelry, total.....	1,536		142,433,388
Platinum.....	507		41,872,454
Gold.....	582		43,637,735
Gold-filled and rolled-gold-plate.....	129		10,980,188
Gold-electroplated.....	79		5,842,163
Silver.....	207		10,809,618
Other metals.....	335		29,991,257
Jewelry findings.....	130		21,706,721

See footnotes on p. 106.

## INDUSTRY GROUP 12.—NONFERROUS METALS AND THEIR PRODUCTS—Contd.

PRODUCT	Number of establishments	Quantity	Value
<b>LIGHTING EQUIPMENT</b>			
Aggregate.....	(1)		\$147,742,447
Electric lighting equipment:			
Residence, total.....	4 385		51,256,780
Ceiling or chandelier type (except kitchen units).....	200		16,611,810
Wall or bracket type (except kitchen units).....	162		7,094,845
Kitchen units.....	74		1,539,841
Portable lamps.....			
Table and boudoir.....	135		9,385,005
Bridge and floor.....	141		10,402,565
Candelabra, candlestick, electric candle.....	35		739,836
Lanterns and other outdoor fixtures.....	84		1,763,093
Other.....	50		3,719,735
Commercial, total.....	4 141		15,300,476
Auditorium, church, and theater.....	99		5,878,962
Public buildings, bank, store, office building, school, etc.....	93		7,938,256
Window and show case.....	31		1,108,520
Photographing, photo-engraving, and blue printing.....	5		374,738
Industrial, total.....	4 31		2,147,934
Factory.....	19		1,630,983
Office and drafting room.....	21		517,001
Miscellaneous lighting equipment, total.....	4 147		52,579,195
Street and highway fixtures.....	10		3,287,588
Desk and reading lamps.....	22		1,077,356
Motor-vehicle lamps complete.....	44		36,384,191
Other electric fixtures, including arc lamps (not therapeutic), motorcycle, and miners' lamps.....	89		11,830,060
Lighting equipment not reported as to kind by manufacturer.....	58		4,920,711
Kerosene and gasoline lighting equipment, total.....	4 23		5,676,259
Lamps.....	14		2,084,237
Lanterns.....	13		3,592,022
Reflectors and shades, total.....	4 43		4,960,813
Metal, all types.....	29		3,683,071
All glass and all porcelain.....	15		1,277,742
Incandescent mantles.....	7		1,595,978
Carbide lamps (miners', bicycle, motorcycle, etc.).....	8		751,504
Other lighting fixtures and equipment, including gas fixtures, and posts and standards.....	53		3,785,530
Parts.....	42		4,707,217

## NEEDLES, PINS, HOOKS AND EYES, AND SNAP FASTENERS

Aggregate.....	(1)		\$20,425,697
Needles, total.....	4 21		6,488,869
Knitting-machine (latch and spring).....	(2)		4,828,865
Other needles, including sewing-machine.....	(3)	Thousands 128,554	1,660,004
Pins, total.....	4 18		6,263,563
Common or toilet, made of steel and brass wire, total.....	4 9		1,709,162
Reported in pounds.....		2,015,162	1,221,101
Reported in packs.....		1,187,231	488,061
Hairpins, metal.....	8	Pounds 4,799,175	2,335,504
Safety pins.....	6	Gross 8,008,813	2,218,897
Hooks and eyes.....	3	Great gross 181,656	200,437
Eyelets.....	7	433,035	784,043
Hook-and-eye tape.....	4	Yards 14,276,203	1,156,055
Snap fasteners and clasps.....	14		5,532,700

INDUSTRY GROUP 12.—NONFERROUS METALS AND THEIR PRODUCTS—Contd.

PRODUCT	Number of establishments	Quantity	Value
<b>NONFERROUS METAL ALLOYS AND PRODUCTS<sup>1</sup></b>			
Plates and sheets, aggregate.....	65		\$193,945,176
Brass and bronze, total.....	31	<i>Short tons</i> 255,255	
For sale.....		215,675	91,024,087
Transferred to other plants of same company.....		18,646	
Assigned value.....			7,521,019
Produced and consumed in same works.....		21,034	
Copper, total.....	25	129,223	
For sale and interplant transfer.....		127,789	59,539,928
Produced and consumed in same works.....		1,434	
Lead, for sale and interplant transfer.....	12	35,802	6,490,493
Zinc, for sale and interplant transfer.....	8	54,135	9,543,739
Nickel alloys, for sale and interplant transfer.....	17	27,162	18,337,961
Other metals, for sale and interplant transfer.....	9	2,419	1,487,999
Rods, total.....	48		\$135,852,141
Brass and bronze, total.....	19	170,228	
For sale and interplant transfer.....		125,243	45,809,031
Produced and consumed in same works.....		44,985	
Copper, total.....	16	569,540	
For sale and interplant transfer.....		227,808	81,057,185
Produced and consumed in same works.....		342,282	
Nickel alloys, total.....	12	8,064	
For sale.....		7,232	5,875,561
Produced and consumed in same works.....		832	
Other nonferrous metals for sale.....	6	3,628	3,050,364
Tubing (seamless) and pipe, total.....	65		\$73,888,613
Brass and bronze, total.....	24	71,599	
For sale.....		68,650	35,106,937
Transferred to other plants of same company.....		2,636	
Assigned value.....			1,122,784
Produced and consumed in same works.....		313	
Copper, for sale and interplant transfer.....	24	49,062	25,774,350
Lead, for sale and interplant transfer.....	29	37,026	7,000,676
Nickel alloys, for sale and interplant transfer.....	12	1,789	2,541,819
Other nonferrous metals, for sale and interplant transfer.....	12	3,686	2,342,147
Other tubing, including brazed.....	6		4,013,360
Castings, rough, total.....	718		117,886,925
Brass and bronze.....	666	<i>Pounds</i> 413,512,944	98,903,131
Copper.....	85	9,798,512	2,690,725
Nickel alloys.....	43	5,227,046	2,942,165
Other metals.....	365	28,006,556	11,050,904
Finished products: <sup>10</sup>			
Extruded shapes, total.....	21		6,665,268
Brass and bronze.....	8		5,245,183
Other nonferrous metals, including copper.....	16		1,420,085
Bearings and bushings (including antifriction linings), total.....	118		27,680,058
Brass and bronze.....	111		26,599,654
Other nonferrous metals.....	15		1,080,404
Bells.....	14		809,245
Die castings.....	41		22,076,623
Finished castings, total.....	158		15,550,907
Brass and bronze.....	134		12,352,183
Other nonferrous metals.....	51		3,198,724
Forgings and hot-pressed parts, total.....	14		7,768,582
Brass and bronze.....	13		7,651,635
Copper.....	3		89,692
Other nonferrous metals.....	5		27,255
Other nonferrous metal products.....	183		42,020,428
Miscellaneous nonferrous metal products normally classified in other industries.....			208,321,547

See footnotes on p. 106.

## INDUSTRY GROUP 12.—NONFERROUS METALS AND THEIR PRODUCTS—Contd.

PRODUCT	Number of establishments	Quantity	Value
<b>PLATED WARE</b>			
Aggregate.....	(1)	-----	\$52, 502, 851
Electro silver-plated ware, total.....	4 85	-----	44, 623, 305
Flatware, including cutlery, total <sup>11</sup> .....	4 26	-----	29, 772, 127
Hotel patterns.....	11	-----	2, 079, 941
Commercial patterns.....	21	-----	27, 092, 136
Hollow ware (except electrical household appliances), total.....	4 54	-----	11, 644, 390
Hotel services.....	13	-----	2, 522, 418
Commercial lines.....	47	-----	9, 121, 972
Toilet ware and novelties.....	18	-----	1, 286, 942
Other articles.....	20	-----	1, 919, 846
Nickel-silver ware (nickel base not plated with silver), total.....	4 22	-----	4, 941, 305
Flatware (including cutlery).....	11	-----	2, 878, 497
Hollow ware (except electrical household appliances).....	6	-----	1, 239, 979
Toilet ware and novelties.....	7	-----	355, 206
Other articles.....	5	-----	467, 623
Pewter ware, total.....	4 38	-----	2, 938, 241
Hollow ware.....	35	-----	2, 642, 202
Novelties.....	6	-----	290, 039
<b>SILVERSMITHING AND SILVERWARE</b>			
Aggregate.....	(1)	-----	\$26, 167, 556
Flatware (including cutlery).....	26	-----	11, 254, 910
Hollow ware, except electrical household appliances.....	62	-----	10, 432, 147
Novelties, except electrical household appliances.....	13	-----	1, 241, 315
Toilet ware.....	14	-----	1, 749, 987
Other sterling silver articles.....	19	-----	1, 489, 227
<b>SMELTING AND REFINING, COPPER <sup>3</sup></b>			
Smelting and refining, copper, aggregate.....	26	-----	\$994, 783, 862
<b>SMELTING AND REFINING, LEAD <sup>3</sup></b>			
Smelting and refining, lead, aggregate.....	19	-----	\$232, 115, 009
<b>SMELTING AND REFINING, METALS OTHER THAN GOLD, SILVER, OR PLATINUM, NOT FROM THE ORE <sup>3 12</sup></b>			
Products for remanufacture:			
Ingots and pigs, aggregate.....	(1)	-----	\$169, 447, 667
Copper (secondary), total.....	28	-----	16, 512, 500
"Smelting and refining, not from the ore" industry.....	19	Short tons 44, 215	14, 648, 156
"Nonferrous-metal alloys and products" industry.....	9	5, 907	1, 864, 344
Lead (secondary), total.....	4 102	-----	21, 538, 673
"Smelting and refining, not from the ore" industry—			
Common.....	51	29, 634	4, 042, 627
Antimonial.....	23	78, 286	10, 945, 001
"Nonferrous-metal alloys and products" industry—			
Common.....	42	27, 425	4, 063, 829
Antimonial.....	21	17, 697	2, 487, 216

See footnotes on p. 106.

INDUSTRY GROUP 12.—NONFERROUS METALS AND THEIR PRODUCTS—Contd.

PRODUCT	Number of establishments	Quantity	Value
<b>SMELTING AND REFINING, METALS OTHER THAN GOLD, SILVER, OR PLATINUM, NOT FROM THE ORE—Continued</b>			
Products for remanufacture—Continued.			
Ingots and pigs—Continued.		<i>Short tons</i>	
Zinc (secondary), total.....	39		\$5,519,127
"Smelting and refining, not from the ore" industry.....	25	38,184	5,322,352
"Nonferrous-metal alloys and products" industry.....	14	1,659	196,775
Tin (secondary), total.....	45		2,664,760
"Smelting and refining, not from the ore" industry.....	23	1,361	1,167,248
"Nonferrous-metal alloys and products" industry.....	22	1,795	1,497,512
Brass and bronze, total.....	54		43,568,172
"Smelting and refining, not from the ore" industry.....	42	112,259	33,427,374
"Nonferrous-metal alloys and products" industry.....	12	33,231	10,140,798
Antifriction bearing metal, total.....	103		20,301,315
"Smelting and refining, not from the ore" industry.....	32	11,611	4,212,937
"Nonferrous-metal alloys and products" industry.....	71	42,788	16,088,378
Solders, total.....	110		28,595,090
"Smelting and refining, not from the ore" industry.....	37	15,985	7,267,091
"Nonferrous-metal alloys and products" industry.....	73	40,488	21,327,999
Type metal, total.....	67		7,885,354
"Smelting and refining, not from the ore" industry.....	25	11,845	2,367,318
"Nonferrous-metal alloys and products" industry.....	42	30,445	5,518,036
Other nonferrous metals, total <sup>18</sup> .....	66		22,862,676
"Smelting and refining, not from the ore" industry.....	31		14,969,692
"Nonferrous-metal alloys and products" industry.....	35		7,892,984

SMELTING AND REFINING, ZINC<sup>3</sup>

Smelting and refining, zinc, aggregate.....	30		\$118,901,070
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STAMPED WARE, ENAMELED WARE, AND METAL STAMPING, ENAMELING, JAPANING, AND LACQUERING

	(1)		\$213,666,794
Aggregate.....			
Stamped household ware (other than vitreous enamel and aluminum), total.....	100		33,213,148
Galvanized-iron ware.....	35		8,588,481
Tinware.....	31		11,743,969
Japanned, lacquered, and paint-enameled ware.....	29		4,421,370
Other metal ware.....	60		8,462,328
Stamped automotive parts and accessories.....	108		56,985,027
Other stamped ware.....	380		55,838,399
Enameled ware (vitreous), total.....	92		35,017,903
Kitchen and other household ware.....	40		23,500,948
Hospital ware.....	12		657,448
Other enameled ware.....	60		10,859,507
Perforated metals.....	25		4,300,194
Bottle caps.....	35		23,312,123

See footnotes on p. 106.

## INDUSTRY GROUP 12.—NONFERROUS METALS AND THEIR PRODUCTS—Contd.

PRODUCT	Number of establishments	Quantity	Value
<b>TIN AND OTHER FOILS, NOT INCLUDING GOLD FOIL</b>			
Aggregate.....	(1)	Pounds 96,188,082	\$21,862,284
Aluminum foil.....	5	9,921,671	6,009,601
Tin, lead, and composition foil.....	6	86,266,411	15,852,683

<sup>1</sup> The aggregate numbers of establishments—i. e., the sums of the several items for a given group of products—are not shown because such aggregates would greatly overstate the actual numbers of establishments reporting the groups of products in question. This condition arises because in practically all cases each establishment is engaged in the manufacture of more than 1 of the individual products or classes of products. The net numbers of establishments reporting the several groups of products are not shown by the census tabulations.

<sup>2</sup> The net number of establishments reporting the several products are not shown by the census tabulations.

<sup>3</sup> The amounts under this heading represent products manufactured during the period covered, whether sold or not.

<sup>4</sup> Inasmuch as some establishments manufacture more than 1 kind of product, the totals in this column are smaller than the sum of the figures below them.

<sup>5</sup> Combined in order to avoid disclosing data for individual establishments.

<sup>6</sup> Includes value of other products made in industry, but does not include value of fire extinguishers made as secondary products in other industries. The actual value of fire extinguishers manufactured in all industries reporting them as either major or minor products, \$7,544,119.

<sup>7</sup> Statistics on the production of hairpins other than metal are given in the report on "Combs and hairpins, not made of metal or rubber."

<sup>8</sup> This figure does not include value of quantities reported as produced and consumed in same works.

<sup>9</sup> Includes aluminum castings which are shown as a total in the "Aluminum manufactures" industry.

<sup>10</sup> Data on quantity not called for.

<sup>11</sup> Statistics on the production of cutlery, other than plated, will be found in the reports for "Cutlery and edge tools" and "Silversmithing and silverware."

<sup>12</sup> This table presents statistics for the total production of ingots and pigs in both the "Smelting and refining, metals other than gold, silver, or platinum, not from the ore," and "Nonferrous metals and alloys" industries; also for the production of these commodities made as secondary products by establishments classified in other industries, valued at \$3,237,506.

<sup>13</sup> Includes aluminum ingots which are reported in the total production of ingots in the "Aluminum manufactures" industry.

## INDUSTRY GROUP 13.—MACHINERY, NOT INCLUDING TRANSPORTATION EQUIPMENT

[This table presents statistics for all commodities covered by the Census of Manufactures classification, except those for which the figures must be withheld from publication in order to avoid disclosing, exactly or approximately, the data reported by individual establishments. (See sec. 7 of General Explanations)]

PRODUCT	Number of establishments	Quantity	Value
<b>CASH REGISTERS AND ADDING, CALCULATING, AND CARD-TABULATING MACHINES</b>			
Aggregate.....	(1)	Number	\$106, 216, 616
Adding machines.....	8	157, 740	25, 909, 561
Calculating machines.....	6	57, 201	11, 616, 947
Cash registers, card-punching, sorting, and tabulating machines; change-making machines; coin counters; fare registers and fare boxes; taxicab meters and ticket-counting machines.....	25		61, 272, 174
Other adding, calculating, and computing devices.....	10		771, 248
Parts and attachments.....	19		6, 646, 686

### ELECTRICAL MACHINERY, APPARATUS, AND SUPPLIES 1

Aggregate.....	(1)		\$2, 334, 246, 358
Generators, motor-generator sets, and automotive generators, total.....	60		80, 932, 360
Generators, not including motor-generator sets, automotive generators, nor self-contained power and lighting outfits, total.....	30		21, 825, 076
Steam-turbine driven—			
Direct current—			
Under 500 kilowatt—			
Number.....	6	2, 694	
Total rated capacity.....		13, 191	470, 195
500 kilowatt or over—			
Number.....	3	22	
Total rated capacity.....		17, 450	218, 787
Alternating current—			
Number.....	5	312	
Total rated capacity (kilovolt-ampere).....		2, 491, 241	12, 267, 422
Other than steam-turbine-driven—			
Direct current—			
Number.....	25	6, 871	
Total rated capacity (kilowatt).....		70, 495	1, 810, 874
Alternating current—			
Number.....	16	2, 048	
Total rated capacity (kilovolt-ampere).....		1, 377, 977	7, 057, 798
Synchronous condensers and frequency changers—			
Number.....	4	203	
Total rated capacity (kilovolt-ampere).....		762, 179	4, 240, 796
Automotive generators for battery charging.....	12	4, 772, 465	28, 210, 251
Self-contained power and lighting outfits, not exceeding 5 kilowatts—engine, generator, and control, not including storage batteries.....	19	30, 634	6, 840, 191
Motor-generator sets and dynamotors (not including arc-welding sets)—			
Number.....	30	21, 402	
Total rated capacity (kilowatt).....		474, 177	13, 397, 158
Railway and vehicle-power generators (for gasoline-electric and oil-electric cars and busses) and parts and supplies for all types of generators 1.....	3		6, 418, 888

See footnotes on p. 130.

## INDUSTRY GROUP 13.—MACHINERY, NOT INCLUDING TRANSPORTATION EQUIPMENT—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>ELECTRICAL MACHINERY, APPARATUS, AND SUPPLIES—Continued</b>			
Transformers, current-limiting reactors, and control apparatus, total.....	<sup>3</sup> 97	-----	\$122, 113, 496
Transformers and current-limiting reactors, total.....	<sup>3</sup> 46	-----	77, 824, 952
Constant-potential transformers, except measuring instruments and radio transformers—			
Less than 1 kilovolt-ampere—			
Number.....	15	{ 149, 999 }	2, 375, 511
Total rated capacity.....		{ 47, 144 }	
1 to 50 kilovolt-amperes—			
Number.....	23	{ 251, 485 }	25, 726, 005
Total rated capacity.....		{ 2, 544, 572 }	
51 to 500 kilovolt-amperes—			
Number.....	17	{ 22, 143 }	16, 772, 585
Total rated capacity.....		{ 3, 910, 046 }	
Over 500 kilovolt-amperes—			
Number.....	12	{ 3, 389 }	28, 984, 734
Total rated capacity.....		{ 12, 144, 653 }	
Constant-current transformers.....	6	23, 750	1, 662, 383
Current-limiting reactors.....	7	5, 566	1, 417, 860
Bell-ringing and toy transformers.....	11	-----	885, 874
		<i>Number</i>	
Control apparatus, total.....	<sup>3</sup> 56	-----	44, 288, 544
Industrial magnetic control for alternating-current motors.....	24	-----	14, 198, 080
Industrial magnetic control for direct-current motors.....	15	-----	6, 947, 281
Industrial manual control for alternating-current motors.....	19	617, 467	7, 772, 730
Industrial manual control for direct-current motors.....	13	141, 413	2, 258, 911
Railway and vehicle controllers.....	4	-----	1, 369, 666
Field rheostats, generator-voltage regulators, battery-charging rheostats, miscellaneous rheostats, and resistance units (not including theater dimmers).....	28	-----	5, 257, 138
Pressure regulators, float switches, limit switches, phase-failure relays (regulating and protective), electric brakes, and other miscellaneous control switches.....	21	-----	6, 483, 838
Electrotherapeutic and electromedical (including dental) apparatus, total.....	<sup>3</sup> 135	-----	23, 555, 082
Motor-driven devices—			
"Health" motors.....	17	101, 523	3, 152, 974
Vibrators.....	18	59, 485	475, 356
Other, including dental apparatus.....	16	-----	3, 035, 963
"Health" lamps, professional—			
Carbon-arc.....	22	23, 818	670, 751
Mercury-vapor.....	5	16, 182	2, 581, 262
Other.....	21	-----	941, 731
"Health" lamps, household.....	28	62, 182	1, 477, 707
X-ray apparatus (including X-ray tubes).....	11	-----	10, 604, 329
Miscellaneous devices.....	6	-----	615, 009
Motors (including automotive-starter motors, but not including control apparatus), motor parts and supplies, and electric fans, total.....	<sup>3</sup> 136	-----	205, 041, 876
Motors and parts and supplies, total.....	<sup>3</sup> 123	-----	194, 845, 523
Stationary motors, total.....	<sup>3</sup> 118	-----	136, 034, 880
Fractional horsepower (excluding "health" motors and vibrators)—			
Under one-twentieth horsepower (toy motors or other fractional horsepower motors not having definite commercial rating in accordance with A. I. E. E. standards).....	10	746, 936	3, 000, 943

See footnotes on p. 130.

INDUSTRY GROUP 13.—MACHINERY, NOT INCLUDING TRANSPORTATION EQUIPMENT—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>ELECTRICAL MACHINERY, APPARATUS, AND SUPPLIES—Continued</b>			
Motors (including automotive starter motors, but not including control apparatus), motor parts and supplies, and electric fans, total—Continued.			
Motors and parts and supplies, total—Continued.			
Stationary motors, total—Continued.			
Fractional horsepower (excluding "health" motors and vibrators)—Continued.			
One-twentieth horsepower and over, but under 1 horsepower (motors built on frames smaller than those of open-type motors having a continuous rating of 1 horsepower at 1,700-1,750 r. p. m.)—			
Universal—			
Number.....	17	663, 695	\$4, 450, 844
Total rated capacity.....		140, 013	
Split-phase—			
Number.....	24	1, 878, 912	18, 340, 738
Total rated capacity.....		617, 119	
Repulsion-induction—			
Number.....	25	1, 113, 847	17, 607, 565
Total rated capacity.....		371, 111	
Direct-current—			
Number.....	29	276, 483	4, 295, 139
Total rated capacity.....		107, 105	
Other types, including single-phase condenser type.	13	158, 696	3, 557, 010
1 horsepower and over—			
Direct-current—			
1 to 200 horsepower, inclusive—			
Number.....	43	87, 376	18, 817, 792
Total rated capacity.....		846, 653	
Over 200 horsepower—			
Number.....	8	236	3, 801, 605
Total rated capacity.....		247, 994	
Alternating-current—			
Repulsion-induction—			
Number.....	23	96, 639	5, 241, 601
Total rated capacity.....		172, 171	
Polyphase-induction—			
Number.....	53	525, 232	47, 048, 072
Total rated capacity.....		4, 615, 280	
Synchronous motors (except fractional horsepower)—			
Number.....	16	3, 599	7, 820, 939
Total rated capacity.....		916, 461	
Other types.....	12		1, 452, 682
Automotive starter motors.....	7	Number 5, 002, 944	32, 849, 221
Railway and vehicle motors (for gasoline-electric, oil-electric, and electric cars and busses), and parts and supplies for all types of motors <sup>1</sup> .....	5		25, 961, 422
Electric fans, total.....	33		10, 196, 353
Ceiling and column fans.....	11	80, 992	2, 228, 041
Desk fans.....	19	659, 863	7, 770, 658
Not reported by kind or quantity.....	3		197, 654
Batteries and battery parts and supplies, total.....	235		149, 934, 676
Storage batteries—			
Complete units, weight of single plate under 3 pounds—			
Motor-vehicle, 9 to 21 plate size.....	174	15, 655, 568	86, 48
Radio, 3, 5, and 7 plate size.....	39	393, 148	2, 47
Other types.....	36		16,
Parts and supplies.....	72		3,

See footnotes on p. 130

## INDUSTRY GROUP 13.—MACHINERY, NOT INCLUDING TRANSPORTATION EQUIPMENT—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>ELECTRICAL MACHINERY, APPARATUS, AND SUPPLIES—Continued</b>			
<b>Batteries and battery parts and supplies—Continued.</b>			
<b>Dry batteries—</b>			
6-inch, both single and multiple units (number of 1.5-volt cells).....	17	<i>Number</i> 46,290,028	\$8,250,288
Radio "B" and "C" battery units, both flat and cylindrical cells.....	25	387,345,863	17,738,801
For flashlight use—batteries for hand lanterns and special lighting units, except lights using 6-inch cells (number of 1.5 volt cells).....	22	216,240,997	7,707,409
All other dry batteries.....	11		701,308
Wet primary batteries and parts and supplies for both dry and wet batteries.....	11		5,935,760
Incandescent-filament lamps (not including sockets and other fittings), total.....	34		85,319,515
Large tungsten—			
Vacuum.....	16	149,802,848	20,713,116
Gas-filled.....	16	202,451,663	44,724,296
Miniature tungsten—			
Automobile.....	10	139,162,835	11,115,752
Other types.....	11	132,869,936	7,351,461
Carbon—			
Large.....	5	2,287,596	409,917
Miniature.....	5		1,004,973
Radio apparatus and tubes, total.....	360		411,637,312
Radio apparatus, total.....	307		329,624,505
Receiving sets—			
6 tubes or fewer.....	55	637,921	31,264,855
7 tubes or more.....	92	4,099,596	202,042,555
Not reported by size.....	12	242,573	19,479,839
Other—crystal and short-wave.....	7		472,803
Loud-speakers.....	57	3,338,522	30,550,637
Combination phonographs and radios.....	6	152,107	22,193,702
Transmitting sets.....	8		5,788,077
Transformers.....	8	573,461	1,041,500
Replacement parts, including headsets.....	65		16,790,537
Radio tubes, total.....	53		82,012,807
Under 5 watts.....	44	82,542,393	61,739,064
5 to 50 watts.....	14	5,300,449	4,453,819
Over 50 watts.....	8	4,210,508	3,918,784
Screen-grid tubes, all sizes.....	20	9,875,462	11,901,140
Industrial and commercial and domestic apparatus and appliances, total.....	245		113,122,445
Industrial and commercial apparatus and appliances (not including motor-driven tools and devices), total.....	140		28,636,977
Cooking apparatus (hotel ranges, broilers, bread-baking ovens, toasters, urns, etc.).....	22		2,249,844
Furnaces, electric—			
Arc.....	3	110	909,285
Induction.....	4	177	483,393
Metallic resistance—			
Number reported.....	10		3,445,413
Number not reported.....		2,032	346,600
Heating devices, complete industrial electric (such as soldering irons, melting pots, kettles, etc.).....	27		1,307,694
Heating units, industrial electric (such as space heaters, immersion heaters, and other miscellaneous and industrial heating units).....	19		2,607,486
Ovens, industrial electric, and electric heating equipment for such ovens.....	9	2,150	860,565
Permanent-wave machines.....	12		3,414,569
Portable motor-driven devices, including clippers and cutters, hair dryers, etc.....	16		2,277,480

See footnotes on p. 130.

INDUSTRY GROUP 13.—MACHINERY, NOT INCLUDING TRANSPORTATION EQUIPMENT—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>ELECTRICAL MACHINERY, APPARATUS, AND SUPPLIES—Continued</b>			
Industrial and commercial and domestic apparatus and appliances—Continued.			
Industrial and commercial apparatus and appliances (not including motor-driven tools and devices)—Continued.			
Welding apparatus—		<i>Number</i>	
Alternating-current transformer welders.....	6	973	\$1, 237, 766
Direct-current arc-welding apparatus, including generating units.....	17	6, 952	5, 794, 296
Resistance welding apparatus, butt, spot, and line.....	7	3, 309	2, 356, 601
Welding electrodes.....	8		1, 290, 980
Domestic household apparatus and appliances, total.....	210		84, 485, 468
Heaters, air—			
Convector type.....	18	171, 296	740, 422
Radiant type.....	25	332, 198	1, 092, 989
Cooking utensils—			
Grills.....	18	262, 564	503, 906
Percolators.....	20	709, 154	3, 985, 735
Toasters—			
Automatic.....	15	507, 017	2, 293, 140
Nonautomatic.....	26	1, 105, 773	2, 180, 580
Waffle irons.....	29	830, 633	4, 371, 220
Disk stoves, hot plates, and ranges, under 2½ kilowatts.....	30	694, 230	1, 418, 850
Domestic ranges, 2½ kilowatts and over.....	26	225, 477	15, 514, 332
Fireless cookers, electric.....	9	79, 945	395, 085
Curling irons.....	15	1, 334, 242	972, 295
Flatirons.....	35	3, 132, 852	8, 018, 080
Heating pads.....	10	529, 733	1, 715, 461
Immersion heaters.....	20	29, 013	97, 614
Water heaters for permanent installation—			
Tank type.....	19	30, 022	1, 174, 208
Side-arm type.....	11	28, 280	466, 053
Vacuum cleaners.....	26		
Number reported.....		1, 382, 070	34, 480, 061
Number not reported.....			627, 545
Miscellaneous household devices not included above.....	46		4, 431, 892
Measuring instruments, meters, and instrument and meter transformers, total.....	56		36, 812, 777
Measuring instruments and meters, total.....	44		31, 737, 028
Watt-hour meters.....			
Alternating-current.....	7	1, 571, 466	14, 113, 375
Direct-current.....	5	16, 030	456, 409
Demand meters and ampere-hour meters <sup>6</sup> .....	5		1, 220, 906
Switchboard meters.....	13	126, 506	2, 728, 631
Graphic recording meters.....	7	7, 518	1, 067, 292
Portable meters.....	12	102, 302	2, 948, 725
Miniature meters, 3¼ inches and under.....	11	936, 112	2, 234, 320
Laboratory testing and scientific instruments.....	11	31, 761	6, 000, 140
Miscellaneous meters.....	10		911, 230
Instrument and meter transformers.....	17	140, 406	5, 075, 749
Switchboards, circuit breakers, and switches, total.....	109		81, 201, 122
Switchboards for light and power, manually or electrically operated, not including those specified immediately below.	78		15, 876, 824
Switchboards of the automatic type for unattended light and power stations.....	10		3, 822, 586
Outdoor switch houses (including switchboards).....	3		1, 153, 166
Theater switchboards (including dimmers).....	24		968, 987
Light and power panel boards, including main-service-feeder, power-feeder, and lighting-branch-circuit panel boards, with their inclosing cabinets.....	73		6, 971, 250
Oil circuit breakers (not included in switchboards).....	11		24, 485, 351
Air circuit breakers (not included in switchboards).....	11		5, 509, 361
Indoor disconnecting switches, single-pole units (not included in switchboards).....	20		2, 485, 637
Outdoor disconnecting switches, single-pole units.....	19		4, 522, 543
Knife switches—			
Open.....	31		1, 225, 943
Inclosed.....	25		7, 909, 603

See footnotes on p. 130.

## INDUSTRY GROUP 13.—MACHINERY, NOT INCLUDING TRANSPORTATION EQUIPMENT—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>ELECTRICAL MACHINERY, APPARATUS, AND SUPPLIES—Continued</b>			
Switchboards, circuit breakers, and switches—Continued.		<i>Number</i>	
Bus supports.....	15		\$1,346,591
Time switches.....	7		360,843
Miscellaneous switches and switchboard accessories not included above.....	53		4,562,432
Ignition apparatus for internal-combustion engines, total.....	<sup>3</sup> 67		58,627,039
Spark plugs.....	29	93,872,403	20,244,418
Coils.....	27	7,767,500	9,501,579
Magneto-generators.....	14		
Number reported.....		504,872	9,212,927
Number not reported.....			5,248,274
Distributors (timers).....	20	7,748,129	14,419,841
Insulated wire and cable, total.....	<sup>3</sup> 102		312,592,093
Insulated wire and cable reported by kind of insulation, total.....	<sup>3</sup> 102		305,263,180
Rubber insulated—			
Lighting and power circuit—			
Braided.....	37		51,130,555
Leaded.....	19		23,037,318
Telephone.....	15		11,742,261
Flexible cords (rubber-insulated, cotton and silk covered).....	31		20,189,102
Cotton insulated—			
Weatherproof.....	25		42,011,680
Slow-burning.....	9		4,296,141
Paper insulated—			
Lighting and power circuit and telephone and telegraph cable (including submarine).....	16		96,227,728
Varnished-cambric insulated.....	15		7,209,890
Magnet—			
Cotton and silk covered.....	23		18,777,088
Enameled.....	23		30,641,417
Other insulated wire and cable and that not reported by kind of insulation.....	7		7,328,913
Wiring devices and interior conduits, total.....	<sup>3</sup> 142		94,065,686
Wiring devices, total.....	<sup>3</sup> 63		38,395,283
Lamp sockets and receptacles—			
Brass-shell sockets and receptacles.....	20		
Number reported.....		59,639,104	5,684,084
Number not reported.....			396,680
Porcelain, bakelite, and composition sockets and receptacles.....	21	35,797,298	5,054,236
Miniature, and candelabra sockets and receptacles.....	12	4,719,830	683,958
Snap switches (flush, surface, and pendent, all types).....	22		
Number reported.....		40,771,313	9,825,855
Number not reported.....			1,463,705
Attachment plug caps—			
10 amperes and under.....	17		
Number reported.....		39,903,078	1,209,841
Number not reported.....			428,054
Over 10 amperes.....	6	5,106,341	368,970
Convenience outlets—			
Single.....	21		
Number reported.....		8,660,382	953,120
Number not reported.....			66,137
Double.....	20		
Number reported.....		9,152,003	1,353,590
Number not reported.....			77,346
Face plates for wiring devices.....	17		
Number reported.....		14,370,977	1,151,551
Number not reported.....			178,821
Miscellaneous wiring devices not elsewhere specified.....	48		9,503,935

See footnotes on p. 130.

INDUSTRY GROUP 13.—MACHINERY, NOT INCLUDING TRANSPORTATION EQUIPMENT—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>ELECTRICAL MACHINERY, APPARATUS, AND SUPPLIES<sup>2</sup>—Continued</b>			
Wiring devices and interior conduits—Continued.			
Wiring devices—Continued.			
Interior conduits, total.....	85	<i>Number</i>	\$50, 270, 403
Rigid steel, and elbows and couplings.....	12		26, 155, 379
Other rigid conduit fittings.....	19		2, 828, 798
Flexible steel.....	7		504, 794
Armored conductor and fittings.....	20		11, 889, 839
Nonmetallic.....	10		1, 754, 806
Metal raceways for surface wiring, and fittings.....	8		1, 405, 731
Under-floor duct, metal and fiber.....	3		908, 250
Outlet boxes.....	27		8, 997, 302
Switch boxes.....	23		1, 089, 840
Lock nuts and bushings.....	11		597, 614
Fuses and fuse blocks, total.....	44		14, 036, 325
Fuses, total.....	33		11, 355, 986
Inclosed fuses for voltages under 125.....	6	48, 015, 888	751, 518
Nonrenewable plug fuses, 125 volts.....	15	73, 795, 065	1, 806, 900
Renewable plug fuses, 125 volts.....	4	3, 352, 221	126, 806
Inclosed renewable fuses, 250 and 600 volts, and renewals therefor.....	11	49, 305, 932	4, 420, 970
Inclosed nonrenewable fuses, 250 and 600 volts.....	15	23, 866, 963	1, 242, 671
Inclosed fuses, for voltages higher than 600.....	11	1, 633, 840	1, 322, 604
All other fuses.....	10		1, 623, 779
Open-fuse material.....	4		60, 738
Fuse blocks, total.....	29		2, 680, 339
Fuse blocks for plug fuses.....	7	827, 515	239, 365
Fuse blocks, clips, and bases, for ferrule-contact and knife-blade fuses, 250 and 600 volts.....	8		200, 522
Fuse blocks, clips, and bases, for fuses higher than 600 volts.....	8		2, 110, 322
All other fuse blocks.....	6		130, 030
Miscellaneous electrical machinery, apparatus, and supplies, total <sup>3</sup> .....	677		544, 654, 554
Carbons—			
Carbons or electrodes for lighting, motion-picture projection, and other.....	7		2, 131, 623
Electrodes for electric furnaces.....	7		8, 830, 003
Brushes for electrical apparatus—			
With pigtails.....	20		2, 703, 777
Plain.....	14		1, 397, 069
Carbon specialties.....	12		1, 986, 673
Electric locomotives <sup>4</sup> .....	10		17, 705, 499
Flash-light cases.....	11	11, 482, 767	7, 050, 437
Lightning arresters and choke coils.....	15		6, 515, 115
Miscellaneous radio parts and accessories <sup>10</sup> .....	142		51, 471, 923
Overhead trolley-line material.....	10		3, 260, 724
Pole-line hardware.....	20		19, 035, 753
Railway signals and attachments.....	9		22, 571, 760
Searchlights and flood lights—			
Searchlights.....	7		797, 010
Flood lights.....	5		1, 777, 322
Number reported.....		467, 681	1, 301, 461
Number not reported.....			
Telephone and telegraph apparatus.....	25		166, 263, 047
Signaling apparatus (other than railway)—			
Street traffic signals and accessories.....	15		1, 842, 183
Bells, buzzers, signal gongs, annunciators, burglar alarms, push buttons, door openers, and battery switches.....	42		3, 893, 257
Clock mechanisms with electrical attachments.....	4		55, 131
Other signaling devices.....	17		2, 427, 213
Fire-alarm apparatus.....	22		4, 030, 146
Rectifying apparatus.....	27		4, 259, 493
Other electrical machinery, apparatus, and supplies.....	462		213, 317, 935

See footnotes on p. 130.

## INDUSTRY GROUP 13.—MACHINERY, NOT INCLUDING TRANSPORTATION EQUIPMENT—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>ENGINES, TURBINES, TRACTORS, AND WATER WHEELS</b>			
Aggregate.....	(1)	Number	\$401,743,424
Steam engines (except traction engines) and steam turbines, total.....	50		32,414,975
Reciprocating types, total <sup>11</sup> .....	37		5,136,696
Reported by number and horsepower—			
Number.....		1,523	
Horsepower (rated capacity).....		179,577	3,511,271
Not reported by number or horsepower.....			1,625,425
Turbines, total <sup>11</sup> .....	14		27,273,279
Reported by number and horsepower—			
Number.....		3,320	
Horsepower (rated capacity).....		3,218,206	25,034,420
Not reported by number or horsepower.....			1,343,859
Internal-combustion engines (not including tractors).....	165		166,633,777
Diesel (compression-ignition) and semi-Diesel (surface-ignition) types—			
Marine.....	25		
Number.....		1,562	
Horsepower (rated capacity).....		193,179	11,430,342
Other than marine, total.....	37		15,368,572
Reported by number or horsepower—			
Number.....		2,026	
Horsepower (rated capacity).....		292,143	15,166,043
Not reported by number or horsepower.....			202,524
Electric-ignition type—			
Aircraft <sup>12</sup> .....	14	6,276	24,966,083
Marine, inboard, total.....	45		7,111,135
Reported by number and horsepower—			
Number.....		10,493	
Horsepower (rated capacity).....		605,104	6,863,530
Not reported by number or horsepower.....			247,605
Marine, outboard—			
Number.....	7	53,456	
Horsepower (rated capacity).....		302,791	7,852,298
Motor-vehicle (not including motorcycle) <sup>13</sup> —			
Number.....	10	279,611	
Horsepower (rated capacity).....		10,029,629	50,654,294
Other electric-ignition engines, total.....	84		49,251,053
Reported by number and horsepower—			
Number.....		312,069	
Horsepower (rated capacity).....		3,913,385	47,733,962
Not reported by number or horsepower.....			1,467,091
Water turbines and water wheels, total.....	4		5,027,907
Reported by number and horsepower—			
Number.....		323	
Horsepower (rated capacity).....		302,534	3,860,469
Not reported by number or horsepower.....			1,167,438
Tractors and traction engines, total.....	35		196,996,780
Tractors (internal-combustion) <sup>14</sup> —			
Wheel type—			
Number.....	31	196,185	
Horsepower (rated capacity).....		144,332,277	142,261,745
Track-laying type—			
Number.....	9	27,111	
Horsepower (rated capacity).....		14857,975	53,676,569
Garden tractors and motor cultivators—			
Number.....	15	6,277	
Horsepower (rated capacity).....		14,16,728	1,014,608
Traction engines (steam).....	4		43,858
Engines and turbines, class and type not reported.....			674,935

See footnotes on p. 130.

INDUSTRY GROUP 13.—MACHINERY, NOT INCLUDING TRANSPORTATION EQUIPMENT—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>FARM EQUIPMENT:</b>			
Aggregate.....	(1)	<i>Number</i>	\$606,621,812
Plows and listers, total.....	(1)		42,365,129
Moldboard plows—			
Horse—			
Walking, 1-horse.....	42	242,186	1,420,854
Walking, 2-horse and larger.....	50	204,645	2,645,143
Sulky—			
1-bottom.....	22	22,817	1,194,657
2-bottom.....	16	30,503	2,767,983
3-bottom and larger.....	5	3,146	404,376
Tractor—			
1-bottom <sup>15</sup> .....	11	5,115	181,214
2-bottom.....	20	61,698	3,954,776
3-bottom.....	14	38,106	4,027,637
4-bottom.....	10	16,837	2,648,712
5-bottom and larger.....	6	1,141	259,003
2-way—			
Walking.....	7	23,294	268,662
Sulky.....	10	7,471	573,317
Disk plows—			
Horse—			
Single-disk.....	11	2,856	136,039
2-disk.....	12	3,225	259,101
3-disk and larger.....	11	1,034	105,962
Tractor—			
2-disk.....	13	3,603	356,323
3-disk.....	11	2,505	267,878
4-disk.....	9	1,945	242,755
5-disk and larger.....	12	8,344	1,269,491
1-way disk tillers.....	9	22,992	4,517,201
Listers (middle busters)—			
Horse—			
1-bottom.....	22	37,255	912,559
2-bottom.....	7	8,355	754,827
Tractor, 3-bottom.....	8	2,966	417,381
Ridge busters.....	9	1,614	100,816
Subsoilers.....	9	1,388	176,118
Other plows and listers <sup>16</sup> .....	25	15,620	859,136
Plowstocks.....	12	196,806	322,954
Steel plow shapes.....	10	<i>Pounds</i> 20,160,564	1,243,652
Attachments and parts.....	63		10,086,552
Harrows, rollers, pulverizers, and stalk cutters, total.....	(1)		16,813,081
Harrows—		<i>Number</i>	
1-horse (spike-tooth and spring-tooth).....	18	30,885	161,749
Spike-tooth harrow sections.....	40	339,192	2,306,705
Spring-tooth harrow sections.....	24	126,306	1,445,105
Disk harrows, horse.....	30	81,402	3,481,933
Disk harrows, tractor.....	23	57,447	5,230,068
Smooth land rollers.....	8	1,223	44,267
Soil pulverizers and packers.....	20	18,831	879,747
Stalk cutters.....	24	11,696	430,361
Other harrows, rollers, etc. <sup>17</sup> .....	16	3,201	91,180
Attachments and parts.....	50		2,732,966
Planting and fertilizing machinery, total.....	(1)		31,145,092
Corn planters—			
Hand.....	4	28,207	26,240
Horse—			
1-row.....	16	19,385	335,235
2-row.....	18	55,393	3,089,606

See footnotes on p. 130.

## INDUSTRY GROUP 13.—MACHINERY, NOT INCLUDING TRANSPORTATION EQUIPMENT—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>FARM EQUIPMENT<sup>2</sup>—Continued</b>			
Planting and fertilizing machinery—Continued.		<i>Number</i>	
Cotton planters, 1-row.....	15	20, 873	\$111, 647
Combination corn and cotton planters—			
1-row.....	19	80, 993	1, 651, 751
2-row.....	13	12, 966	913, 810
Potato planters, horse.....	12	8, 540	573, 402
Transplanters, horse.....	5	4, 029	304, 407
Combined listers and drills—			
1-row.....	5	1, 759	109, 831
2-row.....	6	5, 245	494, 226
Beet drills.....	4	1, 626	109, 616
Grain drills, horse.....	18	51, 113	6, 675, 328
Grain drills, tractor.....	9	19, 295	3, 359, 379
Broadcast seeders—			
Wheel, horse.....	7	3, 900	197, 365
End-gate.....	7	10, 181	152, 385
Fertilizer distributors, horse.....	32	92, 741	719, 744
Lime spreaders.....	21	12, 265	345, 881
Manure spreaders.....	19	61, 000	7, 189, 588
Other planting and fertilizing machinery <sup>18</sup> .....	24	90, 018	816, 028
Attachments and parts.....	57	-----	3, 969, 623
Cultivators and weeders, total.....	( <sup>1</sup> )	-----	22, 856, 855
Cultivators—			
Horse-drawn, except disk—			
1-horse.....	31	202, 755	978, 817
1-row, walking.....	24	51, 694	1, 667, 293
1-row, riding.....	35	115, 254	4, 238, 834
2-row.....	24	54, 505	4, 486, 705
Tractor-drawn.....	9	34, 634	2, 902, 575
Disk cultivators.....	14	6, 957	305, 982
Beet cultivators.....	9	4, 496	231, 021
Hand cultivators (wheeled hoes).....	16	153, 434	459, 316
Rotary hoes.....	11	20, 182	1, 257, 138
Weeders.....	23	25, 221	448, 765
Cotton scrapers.....	6	3, 132	20, 864
Other cultivators and weeders <sup>19</sup> .....	22	25, 854	1, 082, 768
Attachments and parts.....	54	-----	4, 776, 777
Harvesting machinery, total.....	( <sup>1</sup> )	-----	87, 712, 968
Grain binders.....	5	65, 069	10, 661, 112
Combines (harvester-threshers)—			
Width of cut, 10 feet and less.....	12	6, 605	8, 078, 727
Width of cut, over 10 feet.....	12	30, 352	42, 604, 814
Corn binders (row binders).....	5	15, 246	2, 141, 797
Corn harvesters (not binders).....	3	1, 076	29, 280
Corn picker-huskers.....	8	8, 620	2, 640, 582
Self-rake reapers.....	4	2, 353	183, 067
Potato-digging machines (elevator type).....	14	9, 400	752, 784
Potato diggers (plow type).....	10	3, 367	36, 738
Pea and bean harvesters.....	11	2, 645	125, 966
Beet lifters.....	7	1, 800	92, 937
Other harvesting machinery <sup>20</sup> .....	15	15, 940	2, 326, 478
Attachments and parts.....	53	-----	18, 038, 676
Haying machinery, total.....	( <sup>1</sup> )	-----	18, 711, 607
Mowers.....	11	126, 360	7, 050, 062
Rakes, sulky (dump).....	13	58, 134	1, 733, 862
Combination side-rakes and tedders.....	9	22, 463	1, 630, 062
Rakes (sweep).....	12	18, 273	706, 591
Tedders.....	5	1, 365	63, 213
Loaders.....	11	24, 920	1, 991, 338
Stackers.....	10	6, 276	528, 056
Other haying machinery <sup>21</sup> .....	5	3, 472	20, 972
Attachments and parts.....	22	-----	4, 937, 451
Machines for preparing crops for market or for use, total.....	( <sup>1</sup> )	-----	30, 103, 384
Grain threshers (wood)—			
Width of rear, 46 inches and under.....	10	240	151, 848
Width of rear, 47 inches and over.....	6	15	17, 525

See footnotes on p. 130.

INDUSTRY GROUP 13.—MACHINERY, NOT INCLUDING TRANSPORTATION EQUIPMENT—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>FARM EQUIPMENT<sup>2</sup>—Continued</b>			
<b>Machines for preparing crops for market or for use—Contd.</b>			
Grain threshers (steel)—		<i>Number</i>	
Width of rear, 46 inches and under.....	17	12, 180	\$10, 515, 336
Width of rear, 47 inches and over.....	12	1, 378	1, 669, 379
Pea and bean threshers.....	9	260	206, 404
Peanut threshers (pickers).....	6	498	212, 947
Ensilage cutters (silo fillers).....	25	8, 065	1, 694, 859
Fodder cutters.....	14	3, 465	73, 513
Corn shellers (hand).....	16	34, 928	359, 001
Corn shellers (power)—			
Spring (2, 4, 6, and 8 hole).....	13	3, 298	445, 365
Cylinder.....	12	2, 152	768, 243
Corn huskers and shredders.....	11	972	460, 232
Hay presses—			
Horse.....	12	1, 288	202, 362
Engine.....	15	2, 172	903, 992
Feed grinders and crushers—			
Hand.....	10	48, 486	130, 152
Power.....	41	53, 106	3, 084, 687
Grain cleaners and graders (for small grains only).....	15	11, 635	645, 666
Potato sorters and graders.....	6	1, 972	111, 879
Cane mills (farm size).....	6	2, 523	115, 408
Sirup evaporators—			
Cane.....	4	3, 951	35, 975
Maple.....	5	663	120, 266
Sirup-evaporator furnaces (maple).....	5	553	67, 094
Cider mills.....	11	33, 137	285, 118
Other machines for preparing crops for market or for use <sup>21</sup> .....	41	54, 204	1, 095, 800
Attachments and parts.....	76	-----	6, 724, 373
<b>Tractors, total.....</b>	( <sup>1</sup> )	-----	<b>227, 632, 527</b>
<b>Tractors—</b>			
Wheel type (not including garden tractors or motor cultivators), total.....	( <sup>1</sup> )	195, 980	141, 653, 219
Belt horsepower—			
Under 30.....	18	128, 360	81, 228, 553
30 to 39.....	15	65, 797	57, 582, 934
40 to 49.....	7	1, 643	2, 242, 268
50 and over.....	6	250	599, 434
Tracklaying types, all sizes.....	11	27, 101	53, 601, 569
Garden tractors and motor cultivators.....	15	5, 895	907, 755
Attachments and parts <sup>22</sup> .....	33	-----	31, 469, 984
Wheel type, total.....	( <sup>1</sup> )	195, 980	141, 653, 219
Plow pull—			
1-plow.....	( <sup>1</sup> )	739	288, 912
2-plow.....	( <sup>1</sup> )	<sup>14</sup> 100, 396	55, 513, 507
3-plow.....	( <sup>1</sup> )	75, 668	63, 239, 144
4-plow.....	( <sup>1</sup> )	<sup>15</sup> 17, 758	20, 874, 909
Over 4-plow.....	( <sup>1</sup> )	<sup>16</sup> 424	736, 747
Horse-drawn vehicles, total.....	( <sup>1</sup> )	-----	8, 813, 307
Wagons, farm.....	47	40, 687	3, 789, 496
Trucks, farm.....	34	60, 969	2, 518, 180
Light spring vehicles, other than buggies.....	6	319	38, 391
Buggies.....	10	2, 589	221, 907
Carts (2-wheeled).....	13	1, 643	64, 649
Bobsleds.....	11	3, 493	101, 706
Other horse-drawn vehicles <sup>27</sup> .....	5	4, 567	46, 643
Attachments and parts.....	41	-----	<sup>18</sup> 2, 032, 335
<b>Barn and barnyard equipment, total.....</b>	( <sup>1</sup> )	-----	<b>10, 269, 150</b>
Feed and litter carriers, overhead (box and gearing only).....	19	10, 010	856, 642
Hay carriers.....	14	60, 477	661, 865
Trucks for carriers (feet).....	22	2, 022, 660	515, 217
Hay forks (harpoon, grapple, etc.).....	12	61, 969	173, 786
Hay slings.....	12	51, 338	141, 154
Feed trucks.....	17	1, 970	53, 194
Stanchions.....	23	479, 019	1, 407, 910
Manger partitions and fittings.....	19	27, 940	69, 463

See footnotes on p. 130.

## INDUSTRY GROUP 13.—MACHINERY, NOT INCLUDING TRANSPORTATION EQUIPMENT—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>FARM EQUIPMENT<sup>2</sup>—Continued</b>			
<b>Barn and barnyard equipment—Continued.</b>			
Stalls and fittings (not including stanchions and manger divisions).....	24	<i>Number</i> 227, 254	\$1, 378, 386
Stock pens (steel).....	21		339, 094
Hog troughs.....	46	282, 114	250, 005
Stock tanks.....	57	102, 494	1, 141, 894
Stock-watering bowls.....	22	52, 303	408, 708
Individual drinking cups.....	19	206, 229	536, 933
Feed cookers.....	19	5, 774	63, 945
Stock feeders.....	15	18, 023	398, 025
Tank heaters.....	7	21, 274	206, 739
Barn-door hangers and track.....	5		616, 333
Other equipment <sup>39</sup> .....	34		1, 637, 790
Attachments and parts.....	6		11, 981
Miscellaneous farm equipment, total.....	( <sup>1</sup> )		110, 640, 505
Beekkeepers' supplies.....	19		2, 170, 901
Corncrubs, portable.....	13	21, 660	268, 149
Grain bins, portable.....	17	10, 656	917, 106
Dairy machinery—			
Milking machines (complete units).....	14	24, 092	1, 778, 210
Cream separators, hand and power.....	15	172, 187	7, 695, 511
Butter-making equipment.....	5		359, 555
Attachments and parts.....	19		1, 242, 082
Elevators, farm—			
Portable.....	18	9, 536	1, 589, 363
Stationary.....	12	2, 380	380, 259
Attachments and parts.....	8		194, 593
Eveners.....	9	22, 290	67, 772
Singletrees, doubletrees, and neck yokes.....	13		657, 523
Gates, farm—			
Field.....	15	181, 341	891, 390
Other.....	5	20, 762	55, 007
Forks, rakes, hoes, spades, and shovels <sup>4</sup> .....	31	17, 446, 385	13, 161, 088
Scythes.....	6	348, 947	332, 344
Scythe snaths.....	5	535, 152	469, 425
Engines, internal-combustion—			
Less than 5-horsepower.....	30	126, 646	6, 183, 329
5 or more, but under 10-horsepower.....	26	16, 322	1, 066, 036
10 or more, but under 15-horsepower.....	12	2, 014	462, 081
15 or more, but under 20-horsepower.....	9	1, 708	522, 336
Attachments and parts.....	17		1, 000, 318
Lawn mowers—			
Hand.....	24	1, 116, 135	7, 310, 867
Power (including horse-drawn).....	16	21, 336	3, 071, 575
Attachments and parts.....	6		405, 876
Lighting plants, electric residence, etc. (complete units).....	16	30, 118	7, 830, 535
Lightning rod.....	24	<i>Feet</i> 9, 608, 123	1, 232, 110
Poultry-farm equipment—		<i>Number</i>	
Brooders.....	37	232, 648	2, 660, 352
Incubators—			
Lamp type (1,000-egg and smaller).....	26	96, 224	1, 515, 129
Commercial type (over 1,000-egg), total egg capacity.....	9	48, 183, 500	5, 441, 693
Poultry feeders.....	27	2, 436, 173	1, 169, 355
Poultry waterers.....	27	1, 716, 585	889, 687
Other poultry-farm equipment <sup>39</sup> .....	30		1, 387, 207
Attachments and parts.....	11		241, 209
Water systems, pneumatic (domestic)—			
Deep-well—			
3-horsepower and smaller.....	40	20, 401	1, 760, 971
Over 3-horsepower.....	8	576	550, 312
Shallow-well—			
Under 250 gallons per hour.....	29	74, 544	3, 783, 646
250 to 499 gallons per hour.....	26	38, 038	2, 214, 946
500 gallons per hour and over.....	22	6, 209	697, 634
Attachments and parts.....	13		216, 164

INDUSTRY GROUP 13.—MACHINERY, NOT INCLUDING TRANSPORTATION EQUIPMENT—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>FARM EQUIPMENT<sup>1</sup>—Continued</b>			
Miscellaneous farm equipment—Continued.			
Pumps, water—		<i>Number</i>	
Hand—			
Pitcher.....	24	329, 781	\$516, 057
Other hand pumps.....	85	214, 722	1, 582, 267
Power—			
Horizontal type, up to and including 75 gallons per minute, 100 pounds pressure.....	17	36, 488	1, 713, 683
Windmill pumps.....	26	91, 396	668, 356
Cylinders for sale separately.....	28	203, 259	665, 053
Attachments and parts.....	12		440, 465
Pump jacks.....	34	42, 236	353, 812
Spraying outfits, complete—			
Hand (with tank, barrel, knapsack, etc.).....	20	272, 719	1, 083, 370
Power (not including engine) <sup>21</sup> .....	31	11, 324	2, 459, 287
Spray pumps (not included above)—			
Hand (not including small spray guns).....	12	130, 427	322, 123
Power.....	10	3, 043	229, 499
Attachments and parts.....	18		640, 323
Pushcarts and hand trucks.....	18	39, 401	390, 090
Silos.....	20	5, 516	2, 292, 318
Stump pullers.....	5	898	216, 401
Trucks, tongue.....	7	29, 097	336, 981
Wheelbarrows—			
Wooden.....	18	125, 298	619, 728
Steel (tubular).....	12	322, 331	1, 297, 455
Windmills.....	26	96, 474	4, 063, 411
Windmill attachments and parts.....	14		521, 881
Windmill towers.....	23	35, 692	1, 347, 511
Wood-sawing machines (circular).....	34	10, 836	183, 804
Miscellaneous items <sup>22</sup> .....			2, 988, 076
Attachments and parts <sup>23</sup> .....			850, 208

FOUNDRY AND MACHINE-SHOP PRODUCTS

	(1)	<i>Number</i>		
Aggregate.....				\$2, 509, 437, 919
Boiler-shop products:				
Boilers (industrial), total.....	206			34, 722, 032
Reported with quantity.....		29, 477		34, 003, 377
Reported without quantity.....				718, 655
Smokestacks, total.....	358			3, 822, 658
Reported with quantity.....		12, 341		3, 793, 977
Reported without quantity.....				28, 681
Tanks (iron and steel), total.....	470			70, 785, 445
Reported with quantity.....		444, 423		63, 501, 210
Reported without quantity.....				7, 284, 235
Other boiler-shop products.....	280			47, 812, 443
Castings:		<i>Short tons</i>		
Gray-iron, including semisteel.....	1, 978	5, 079, 846		375, 508, 194
Malleable-iron.....	144	735, 225		101, 108, 837
Rolls for rolling mills—				
Steel.....	4	45, 752		6, 852, 598
Gray-iron.....	23	126, 074		14, 533, 031
Machinery, total.....	3, 339			1, 211, 654, 998
Reported by specified classes.....				1, 052, 953, 333
Not reported by specified classes.....				158, 701, 165
Machine parts and attachments.....	693			69, 579, 655
Miscellaneous machine-shop products:				
Flexible metallic tubing and hose.....	15			4, 165, 484
Gears (except motor vehicle), total.....	102			30, 825, 542
Reported with quantity.....		39, 099		16, 170, 314
Reported without quantity.....				14, 155, 228
Industrial oil burners.....	50			4, 305, 921
Piston rings for sale.....	77	<i>Number</i>		20, 137, 709
Other machine-shop products <sup>24</sup> .....		281, 539, 500		514, 123, 372

See footnotes on p. 130

## INDUSTRY GROUP 13.—MACHINERY, NOT INCLUDING TRANSPORTATION EQUIPMENT—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>GAS MACHINES, GAS METERS, AND WATER AND OTHER LIQUID METERS</b>			
Aggregate.....	(1)	Number	\$43, 042, 37
Gas machines.....	25		
Reported by number.....		4, 006	1, 000, 586
Not reported by number.....			4, 407, 260
Gas meters.....	19	1, 310, 574	12, 402, 071
Gas regulators and governors.....	23		
Reported by number.....		381, 848	2, 813, 493
Not reported by number.....			1, 602, 696
Water meters.....	20	691, 483	9, 076, 004
Gas meters and water meters not separately reported by manufacturers.....	3		558, 987
Meters for liquids other than water.....	13	77, 391	3, 657, 217
Parts and accessories.....	42		7, 524, 064

## MACHINERY

[The items grouped under this classification cover the entire production of all types of machinery. Therefore, a number of items are included which appear elsewhere in this report]

Aggregate.....	(1)	Number	\$6, 395, 552, 858
Adding machines.....	8	157, 740	25, 909, 561
Addressing and mailing machines.....	18		10, 537, 012
Agricultural machinery, and attachments and parts, total.....	3 293		167, 673, 051
Harvesting and haying machinery.....	87		106, 424, 575
Machinery for preparing crops for market or for use.....	118		30, 103, 384
Planting and fertilizing machinery.....	98		31, 145, 082
Aircraft (airplanes, seaplanes, and amphibians).....	118		51, 508, 120
Bakers' machinery and equipment, total.....	3 93		21, 729, 922
Bake ovens, total.....	38		8, 105, 926
Reported with number.....		3, 385	5, 641, 298
Reported without number.....			2, 464, 628
Other bakers' equipment.....	67		13, 623, 996
Baling presses (other than hay presses), total.....	21		2, 344, 663
Reported with number.....		2, 190	1, 471, 797
Reported without number.....			872, 866
Blowers and exhaust and ventilating fans.....	94		25, 242, 929
Bookbinding machinery.....	32		4, 157, 519
Bottling machinery.....	47		11, 081, 860
Calculating machines.....	6	57, 201	11, 616, 947
Canning machinery.....	71		8, 535, 101
Cars and trucks (industrial and mining), total.....	143		26, 885, 875
Industrial, total.....	91		17, 918, 881
Reported with number.....		172, 714	9, 682, 452
Reported without number.....			8, 236, 429
Mining, total.....	52		8, 966, 994
Reported with number.....		26, 614	5, 003, 560
Reported without number.....			3, 963, 434
Cash registers; card punching, sorting, and tabulating machines; change-making machines and coin counters; fare registers and fare boxes; taxicab meters; and ticket-counting machines.....	25		61, 272, 174
Cement and concrete machinery, total.....	3 97		19, 924, 105
Cement-making machinery.....	18		4, 387, 393
Cement and concrete block machines, total.....	22		1, 147, 021
Reported with number.....		2, 106	918, 467
Reported without number.....			228, 554
Concrete mixers, total.....	44		11, 404, 923
Reported with number.....		16, 145	8, 809, 519
Reported without number.....			2, 595, 404
Other cement and concrete machinery.....	43		2, 984, 778

See footnotes on p. 130.

INDUSTRY GROUP 13.—MACHINERY, NOT INCLUDING TRANSPORTATION EQUIPMENT—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>MACHINERY—Continued</b>			
Check-writing machines, total.....	9	<i>Number</i>	\$2,346,239
Reported with number.....		63,576	2,179,422
Reported without number.....			166,817
Clay-working machinery (brick, pottery, etc.).....	53		4,402,093
Clothing-pressing machines.....	14	16,602	7,216,172
Coffee roasting and grinding machines, food choppers and grinders, food and drink mixers, slicing machines, etc., total.....	(1)		11,503,444
Coffee roasting and grinding machines.....	13		1,575,532
Food choppers and grinders, total.....	13		2,793,216
Reported with number.....		93,509	1,928,048
Reported without number.....			865,168
Slicing machines, total.....	17		4,507,326
Reported with number.....		19,084	3,695,312
Reported without number.....			812,014
Not reported separately as to kind.....			2,627,370
Condensers.....	16		4,386,004
Confectionery and ice-cream machinery.....	46		3,673,804
Conveying and elevating machinery, total.....	3 185		48,537,479
Belt type.....	90		14,206,127
Bucket type.....	80		9,387,390
Gravity.....	16		2,710,537
Pneumatic.....	15		1,779,515
Other types.....	100		20,453,910
Cotton gins.....	16		11,759,565
Cranes (including hoists and derricks), total.....	3 161		57,839,874
Crawler, total.....	29	1,445	6,625,698
Reported with number.....			3,982,494
Reported without number.....			2,643,204
Locomotive, total.....	13	321	5,953,216
Reported with number.....			1,908,641
Reported without number.....			1,044,575
Overhead traveling, total.....	65	13,661	23,058,962
Reported with number.....			20,124,515
Reported without number.....			2,934,447
Stationary, total.....	98	36,781	22,201,998
Reported with number.....			10,104,562
Reported without number.....			12,097,436
Dairy, cheese-factory, and butter-factory machinery, total.....	3 70		16,593,300
Cream separators.....	32		7,695,511
Milkling-machine units.....	11		1,778,271
Other dairy, cheese-factory, and butter-factory machinery.....	39		7,119,518
Dish-washing machines, total.....	13	7,033	3,429,311
Reported with number.....			2,311,111
Reported without number.....			1,118,200
Dredging, excavating, and road-building machinery, total.....	3 212		91,431,364
Dredging machinery, total.....	3 29		3,641,353
Hydraulic.....	21		1,353,000
Other dredging machinery.....	12		2,288,353
Excavating machinery, total.....	3 95		87,789,011
Power shovels, total.....	44	3,359	47,111,000
Reported with number.....			23,111,000
Reported without number.....			24,000,000
Drag lines and power scrapers, total.....	27	1,706	40,678,011
Reported with number.....			1,111,000
Reported without number.....			39,567,011
Trench excavators, total.....	7	247	1,660,000
Reported with number.....			1,111,000
Reported without number.....			549,000
Other excavating machinery.....	28		39,000,000

See footnotes on p. 130.

## INDUSTRY GROUP 13.—MACHINERY, NOT INCLUDING TRANSPORTATION EQUIPMENT—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>MACHINERY—Continued</b>			
Dredging, excavating and road-building machinery—Cont'd.		<i>Number</i>	
Road-building machinery, total	117		\$30,693,707
Road graders, total	37		15,754,483
Reported with number		14,805	13,338,302
Reported without number			2,416,181
Road rollers, total	15		3,892,100
Reported with number		1,090	3,429,110
Reported without number			465,984
Stone crushers, total	23		3,241,192
Reported with number		871	2,710,193
Reported without number			530,999
Other road-building machinery	72		7,805,992
Electrical machinery (generators, motors, and fans), total	(1)		253,593,926
Generators (including automotive generators), self-contained power and lighting outfits, and synchronous condensers and frequency changers	59		61,110,314
Motor-generator sets and dynamotors	30		13,397,158
Motors, including automotive starter-motors but not railway and vehicle power motors			168,884,101
Electric fans (ceiling, column, and desk types)	33		10,199,353
Elevators and elevator machinery, total	179		44,044,399
Passenger, total	76		29,444,321
Reported with number		6,287	22,099,514
Reported without number			6,744,807
Freight, total	79		14,600,078
Reported with number		3,537	7,443,022
Reported without number			7,157,056
Engines (steam and internal-combustion), tractors, and water wheels	(29)		401,748,424
Flour-mill and grain-mill machinery	71		8,286,229
Foundry machinery, total	162		10,639,283
Molding machines, total	20		3,751,051
Reported with number		3,558	2,188,464
Reported without number			1,563,487
Sand-blast machines	17	772	1,475,630
Tumbling barrels	6	663	457,242
Other foundry machinery	37		4,954,460
Gas machines	25		5,407,846
Gas regulators and governors	23		4,416,189
Glass-making machinery	24		3,688,331
Hat-making machinery	17		787,201
Hydraulic machinery (other than for dredging)	67		10,081,728
Incandescent-lamp-making machinery	13		3,091,623
Laundry machinery (for commercial laundries only)	89		23,893,440
Lawn mowers, total	31		10,952,953
Hand	25	1,255,831	8,432,168
Power	11	16,527	2,520,785
Leather-working machinery (other than shoe machinery)	32		1,249,081
Locomotives and parts, total	31		82,908,885
Electric locomotives	29		17,705,499
Internal-combustion locomotives	9	700	2,398,252
Steam locomotives	15	995	62,805,107
Machine tools	309		189,060,949
Manufacturing machines (mimeographs, multigraphs, etc.)	11		3,488,745
Metal-working machinery, total	(1)		50,335,753
Rolling-mill machinery	38		19,617,419
Sheet-metal-working machinery	59		23,138,737
Wire-drawing machines	19		1,019,482
Rod and wire working machinery	33		4,076,830
Other metal-working machinery			1,883,285

See footnotes on p. 130.

INDUSTRY GROUP 13.—MACHINERY NOT INCLUDING TRANSPORTATION EQUIPMENT—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>MACHINERY—Continued</b>			
Meters (gas, water, and other liquid), total.....	57	<i>Number</i>	\$25, 094, 279
Gas.....	19	1, 310, 574	12, 402, 071
Water and other liquid.....	35	768, 874	12, 738, 221
Gas and water meters not separately reported by manufacturers.....	3		558, 987
Mining machinery (not including oil-well machinery).....	130		40, 325, 223
Motion-picture cameras and projectors.....	21		8, 754, 752
Motor cycles and bicycles, total.....	29		13, 726, 635
Motor cycles.....	17		7, 542, 862
Bicycles.....	13		6, 183, 773
Motor vehicles, except motor cycles, total.....	227		3, 412, 055, 752
Passenger vehicles (including public conveyances).....	89		2, 825, 700, 406
Commercial vehicles.....	146		277, 352, 017
Government (Federal, State, county, and municipal) vehicles.....	26		10, 156, 108
Chassis (passenger, commercial, and bus).....	113		298, 847, 221
Oil-mill machinery (cottonseed and other).....	18		2, 532, 508
Oil-refinery machinery.....	38		30, 210, 008
Oil-well machinery, total.....	187		89, 067, 149
Drilling.....	119		47, 941, 025
Tools.....	159		41, 126, 124
Packaging machines.....	31		5, 757, 061
Packing-house machinery, total.....	35		6, 662, 706
Meat packing.....	21		4, 508, 727
Other packing-house machinery.....	20		2, 153, 979
Paint-making machinery.....	19		994, 687
Paper-box machines, total.....	35		4, 552, 854
Reported with number.....		1, 736	3, 749, 300
Reported without number.....			803, 554
Paper-mill and pulp-mill machinery.....	112		30, 456, 020
Pharmaceutical machinery.....	7		1, 274, 344
Photo-engraving machinery.....	6		1, 847, 212
Pneumatic machinery (not including pneumatic tools), total.....	77		41, 374, 404
Air compressors.....	69		39, 633, 109
Reported with number.....		66, 004	33, 225, 958
Reported without number.....			6, 457, 151
Other pneumatic machinery.....	23		1, 691, 295
Printing machinery, total.....	108		64, 859, 911
Presses, total.....	69		36, 051, 750
Cylinder (flat-bed).....	20	2, 220	10, 547, 914
Rotary.....	22		9, 304, 233
Reported with number.....		2, 191	7, 007, 917
Reported without number.....			2, 296, 316
Web.....	14	443	7, 062, 853
Other presses.....	38		9, 196, 750
Typesetting machines.....	7		18, 750, 223
Other printing machinery.....	47		10, 057, 928
Pumps and pumping equipment, including parts and attachments.....	(26)		144, 947, 148
Refrigerating and ice-making machinery, total.....	90		167, 149, 139
Ice-making.....	58		26, 578, 777
Refrigerating machinery (other than ice-making).....	58		16, 688, 514
Domestic electric refrigerators, total.....	33		111, 674, 520
Units complete with cabinets, total.....	24		103, 085, 042
Reported with number.....		597, 520	102, 255, 594
Reported without number.....			829, 448
Units without cabinets.....	13	67, 908	8, 689, 478
Ice-cream cabinets.....	4		8, 819, 935
Water coolers.....	11		3, 387, 393

See footnotes on p. 130.

## INDUSTRY GROUP 13.—MACHINERY, NOT INCLUDING TRANSPORTATION EQUIPMENT—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>MACHINERY—Continued</b>			
		<i>Number</i>	
Rubber-working machinery.....	55		\$13,551,792
Scales and balances.....	66		25,385,186
Sewing machines, total.....	<sup>3</sup> 27	791,668	37,378,210
Household types, total.....	<sup>3</sup> 8	669,027	25,095,008
Electric.....	5	323,474	16,481,823
Foot and hand.....	8	345,553	8,613,185
Industrial types, total.....	<sup>3</sup> 18	122,641	12,001,786
Electric.....	14	113,890	11,144,719
Other than electric.....	5	8,751	857,017
Sewing machines not reported as to type by manufacturers.....	3	2,080	281,466
Shoe machinery.....	37		12,317,414
Stokers, mechanical, total.....	<sup>3</sup> 54		14,053,940
Industrial, total.....	43		12,938,303
Reported with number.....		8,838	11,956,105
Reported without number.....			982,198
Domestic.....	13		1,115,637
Stone-working machinery.....	22		2,184,825
Sugar-mill machinery.....	30		5,045,932
Textile machinery and parts.....	(30)		115,525,123
Tobacco machinery (including cigar and cigarette).....	11		5,017,807
Transmission machinery.....	79		26,786,759
Typewriters, total.....	<sup>3</sup> 18		55,057,091
Portable and bookkeeping-billing.....	12	372,118	21,483,204
Standard, including long-carriage.....	9	587,509	31,900,830
Used and rebuilt.....	5		2,273,057
Vacuum cleaners (electric).....	26		35,107,606
Vending machines.....	44		8,821,261
Washing machines, clothes wringers, driers, and ironing machines, for household use, total.....	<sup>3</sup> 62		79,010,823
Washing machines, electric.....	60		59,930,902
Washing machines, other than electric, including hand-power.....	15		11,457,242
Driers.....	7		484,772
Ironing machines.....	16		4,015,222
Wringers (electric, hand, and other power).....	3		3,122,685
Welding machines, and apparatus, electric and other.....	23		13,582,949
Well-drilling machinery (other than oil-well machinery).....	18		1,463,018
Windmills and windmill towers.....	33		5,410,922
Woodworking machinery.....	265		35,150,807

MACHINE-TOOL ACCESSORIES AND SMALL METAL-WORKING TOOLS <sup>1</sup>

Aggregate.....	(1)		\$183,431,563
Attachments and fixtures, total.....	<sup>3</sup> 578		98,143,962
General equipment—			
Centering devices.....			6,916
Chucks (lathe).....	16		2,725,483
Chucks (drill).....	16		1,311,792
Chucks (magnetic).....	4		360,495
Jaws (face plate).....	44		88,512
Die heads (threading).....	6		718,600
Dividing heads.....	5		20,265
Drilling heads, universal.....	5		275,837
Vises (machine).....	11		182,232
All other, including tool posts and grinders.....	8		235,063
Special equipment—			
Jigs and fixtures.....	292		20,014,120
Punch-press equipment—			
Subpresses, punches, dies, etc.....	438		46,510,752
Die-casting and drop-forging dies.....	27		1,270,754
Tools for screw and automatic machines—			
Box tools, hollow mills, work and tool holders, etc.....	28		4,056,307
Specially designed tools.....	157		5,657,978
Special machinery.....	127		5,066,984
Attachments and fixtures, not reported separately.....	7		4,629,382
All other attachments and fixtures.....	42		5,012,490

See footnotes on p. 130.

INDUSTRY GROUP 13.—MACHINERY, NOT INCLUDING TRANSPORTATION EQUIPMENT—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>MACHINE-TOOL ACCESSORIES AND SMALL METAL WORKING TOOLS</b> —Continued			
Small tools, total.....	56		\$77,641,824
Arbors and collars.....	9		364,716
Collets.....	10		345,523
Counterbores.....	7		1,116,719
Countersinks.....	5		65,222
Drills (carbon).....	17		4,006,029
Drills (high speed).....	24		9,911,434
Hobbing cutters (high speed).....	8		2,078,916
Lathe tools (carbon).....	5		457,177
Lathe tools (high speed).....	9		683,466
Milling cutters (carbon).....	11		558,463
Milling cutters (high speed).....	31		10,146,063
Reamers (carbon).....	33		3,114,356
Reamers (high speed).....	36		5,042,556
Saw blades (principally high-speed steel).....	4		292,615
Threading tools—			
Taps and dies (not pipe-threading)—			
Taps (carbon).....	19		3,526,272
Taps (high speed).....	21		3,069,694
Dies (carbon).....	21		1,337,119
Dies (high speed).....	10		1,362,676
Chasers.....	14		3,251,469
Pipe threading—			
Taps.....	11		300,435
Dies.....	18		1,346,867
Pipe stocks complete with dies.....	7		2,338,528
Small tools made to order and those not reported separately.....	19		11,996,093
All other small tools.....	85		11,595,495
Precision measuring tools and gages.....	46		5,870,807
Other measuring tools.....	14		1,018,891

MACHINE TOOLS

Aggregate.....	(1)	Number		\$186,060,949
Bending machines.....	18	2,680		1,533,794
Boring machines:				
Horizontal.....	7	259		932,237
Vertical.....	6	187		1,363,881
Special types—				
Boring-drilling-milling machines.....	7	144		1,467,736
Boring and turning mills.....	5	129		1,341,240
Other.....	7	(37)		1,820,107
Broaching machines.....	4	259		396,726
Cutting-off machines:				
Band-saw.....	4	324		194,098
Cold-saw.....	8	181		368,617
Hack-saw.....	4	2,680		642,475
Drilling machines:				
Bench.....	10	2,596		304,626
Horizontal—				
Single-spindle.....	5	89		32,788
Multiple-spindle.....	5	185		723,209
Vertical—				
Multiple-spindle.....	16	1,003		4,149,614
Standard.....	11	3,315		2,022,870
Sensitive—				
Single-spindle.....	12	2,977		919,734
Multiple-spindle.....	12	2,404		2,453,444
Radial—				
Plain.....	13	1,300		4,583,870
Universal.....	3	17		59,440
Combined vertical and horizontal, vertical with universal head, and those not reported by kind.....	16	(37)		2,044,925

See footnotes on p. 130.

## INDUSTRY GROUP 13.—MACHINERY, NOT INCLUDING TRANSPORTATION EQUIPMENT—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>MACHINE TOOLS</b> —Continued			
Honing machines <sup>24</sup> .....	8	<i>Number</i> 639	\$681,603
Forging machines:			
Bolt, nut, and rivet.....	5	843	2,220,516
Bulldozers.....	5	60	181,798
Other.....	3	47	664,336
Gear-cutting machines:			
Generating, including hobbing and other types.....	11	2,087	8,472,322
Formed rotary-cutter type—			
Spur.....	5	73	283,967
Bevel.....	4	56	223,619
Grinding machines:			
Cutter, drill, knife.....	20	2,187	1,574,966
External-cylindrical—			
Plain.....	8	1,362	6,206,709
Universal.....	8	603	1,173,912
Internal-cylindrical.....	8	920	4,323,439
Surface.....	14	1,790	3,567,658
Emery-wheel.....	7	11,999	364,552
Other, including disk grinders.....	33	(37)	6,343,144
Hammers (not portable):			
Drop.....	3	96	444,370
Power (belt or motor driven).....	7	620	938,527
Steam and other power.....	4	(37)	212,101
Keyseaters.....	5	(37)	94,999
Lathes:			
Automatic—			
Bar.....	8	3,339	12,353,441
Chucking.....	9	1,398	6,002,597
Other.....	7	391	3,099,605
Bench.....			
Bench, number not reported.....	7	1,326	352,944
Engine—			
General utility—			
Capacity, 16-inch swing and under.....	21	6,387	5,402,569
Capacity, over 16 inch swing and including 22 inch.....	20	1,535	3,203,095
Capacity, over 22 inch and including 36 inch.....	18	681	2,374,637
Heavy-duty, over 36-inch swing.....	6	90	778,269
Other, including gap.....	9	1,033	3,282,354
Polishing, buffing, and grinding.....	13	4,911	1,167,357
Turret—			
Hand-screw machine.....	5	1,091	2,705,865
Horizontal and vertical.....	8	2,287	8,821,845
Milling machines:			
Hand-feed.....	6	312	129,803
Power-feed—			
Plain.....	8	1,112	2,759,194
Universal.....	9	2,270	5,840,142
Vertical.....	9	469	1,428,516
Lincoln type.....	5	826	2,546,604
Planer type.....	6	78	1,670,386
Special.....	17	600	2,482,024
Planers:			
Standard—			
36-inches and under.....	5	62	368,537
Over 36 inches.....	5	57	807,835
Open side.....	6	89	873,105
Special.....	7	60	467,764
Pipe cutting and threading machines.....	11	2,933	1,756,564
Portable tools:			
Drills—			
Electric.....	13	114,306	4,586,469
Pneumatic.....	9	19,063	2,446,608

See footnotes on p. 130.

INDUSTRY GROUP 13.—MACHINERY, NOT INCLUDING TRANSPORTATION EQUIPMENT—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>MACHINE TOOLS<sup>2</sup>—Continued</b>			
Portable tools—Continued.			
Grinders—		<i>Number</i>	
Electric.....	11	46,360	\$2,395,279
Pneumatic.....	9	10,484	1,151,348
Hammers (chipping, riveting, calking, etc.)—			
Electric.....	4	3,739	648,671
Pneumatic.....	8	51,391	2,900,224
Other types, including those using flexible shaft and those not distributed as to class.....	21	( <sup>37</sup> )	1,370,199
Presses:			
Hand.....	3	227	12,188
Forming, including hydraulic.....	9	609	1,756,371
Stamping (power).....	15	4,352	6,611,169
Punch.....	12	1,638	1,004,324
Other, including arbor and foot power stamping.....		( <sup>37</sup> )	408,139
Punching machines (not portable).....	11	330	1,111,993
Riveting machines (not portable).....	10	800	191,644
Shapers:			
Vertical.....	4	136	372,862
Horizontal—			
20-inch stroke and under.....	14	1,044	1,441,239
Over 20-inch stroke and including 28-inch.....	10	442	855,872
Over 28-inch stroke.....	7	191	506,994
Shears (hand).....	4	797	22,696
Shears (power):			
Combination punch and shear.....	9	488	501,808
Rotary.....	4	550	193,591
Straight.....	10	753	991,496
Other, including alligator.....	7	( <sup>37</sup> )	431,800
Slotters.....	8	156	409,336
Threading machines (except for pipe):			
Die type.....	8	758	1,300,679
Milling type.....	6	150	680,432
Rolling type.....	3	103	207,487
Tapping machines.....	8	666	519,680
Tapping machines, number not reported.....			83,500
Other machine tools.....	62		14,884,684

PUMPS AND PUMPING EQUIPMENT

	(1)	<i>Number</i>	
Aggregate.....			\$144,947,148
Hand pumps, not including gasoline filling station pumps, oil pumps, nor spray pumps:			
Air pumps (tire and other).....	9	4,119,424	1,342,519
Water pumps—			
Pitcher-spout.....	17	297,568	467,036
Other hand water pumps.....	38	288,765	1,768,097
Hand pumps, kind and class not specified.....	17		624,974
Windmill pumps.....	22	91,997	668,552
Power pumps, not including gasoline-filling-station pumps, spray pumps, nor pumps for domestic water systems:			
Air pumps, except compressors.....	8	( <sup>37</sup> )	1,955,312
Oil-well pumps.....	9	( <sup>37</sup> )	5,157,838
Centrifugal pumps, other than turbine.....	71	79,490	22,320,064
Rotary pumps, total.....	37		5,782,684
Reported by number.....		84,421	4,422,818
Not reported by number.....			1,359,866
Turbine pumps, total.....	19		5,123,171
Reported by number.....		12,578	3,678,222
Not reported by number.....			1,444,949

See footnotes on p. 130.

## INDUSTRY GROUP 13.—MACHINERY, NOT INCLUDING TRANSPORTATION EQUIPMENT—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>PUMPS AND PUMPING EQUIPMENT—Continued</b>			
Power pumps, not including gasoline filling station pumps, spray pumps, nor pumps for domestic water systems—Con.	26	<i>Number</i>	
Steam pumps, reciprocating types, total			\$7,747,794
Reported by number		21,398	6,627,846
Not reported by number			1,119,949
Other power pumps	107	(37)	18,335,856
Hydraulic rams	15	(37)	125,523
Spraying outfits, complete: 39			
Power, total	31		6,002,833
Reported by number		25,040	3,580,760
Not reported by number			2,422,073
Hand (with tank, barrel, knapsack, etc.)	17	373,149	1,269,823
Spray pumps (not included above):			
Power	14	3,017	227,679
Hand	13	699,491	326,075
Gasoline filling station pumps (hand and power):			
Pumps complete with tanks	10	29,035	4,481,910
Pumps without tanks	27	314,435	22,876,061
Oil pumps, hand	16	(37)	8,190,395
Domestic water systems, pneumatic (including domestic water-system pumps, for sale separately), total	56	188,769	10,178,898
Deep-well—			
3 horsepower and smaller	33	20,323	1,788,515
Over 3 horsepower	10	1,691	1,644,961
Shallow-well—			
Under 250 gallons per hour	25	80,325	3,915,575
250 to 499 gallons per hour	22	38,204	2,245,785
500 gallons per hour and over	16	6,347	733,562
Pump jacks	21	41,874	493,924
Cylinders for sale separately, total	27		789,273
Reported by number		208,906	698,098
Not reported by number			85,180
Pumps, class, kind, and number, not specified	34		3,536,565
Spray guns 40	10	(37)	3,213,991
Parts and attachments	121		11,950,801

## REFRIGERATORS, MECHANICAL

PRODUCT	(1)	<i>Number</i>	Value
Aggregate			\$150,339,411
Domestic electric refrigerators:			
Units complete with cabinets—			
Number reported	24	597,520	102,255,594
Number not reported			
Units complete without cabinets	13	67,908	8,589,473
Evaporators and compressors without cabinets	16		10,246,962
Commercial refrigerating machines of not over 500 pounds ice-melting capacity in 24 hours:			
Water coolers—			
Complete	11	26,074	2,789,411
Units only	3	(37)	597,932
Ice-cream cabinets—			
Complete	4	50,930	8,413,323
Units only			
Other	14		1,941,900
Absorption-type refrigeration systems, replacement parts for all types, and receipts for repair work 41			14,268,701

See footnotes on p. 130.

INDUSTRY GROUP 13.—MACHINERY, NOT INCLUDING TRANSPORTATION EQUIPMENT—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>SCALES AND BALANCES</b>			
Aggregate.....	(1)	Number	\$26, 084, 847
Scalcs:			
Automatic industrial.....	14	21, 161	4, 589, 733
Calculating and computing.....	10	55, 006	9, 070, 021
Beam, including steelyards.....	22	155, 241	5, 084, 861
Spring, other than computing.....	11	620, 061	2, 184, 099
Coin-operated.....	7	8, 637	1, 447, 419
Balances:			
Precision.....	9	18, 118	1, 102, 740
Other.....	4	23, 670	174, 375
Other weighing devices and scales and balances not reported as to type.....	11		1, 731, 938
Parts and attachments.....	12		699, 661

<b>SEWING MACHINES AND ATTACHMENTS</b>			
Aggregate.....	(1)	Number	\$40, 960, 102
Sewing machines, total.....	27	793, 748	37, 378, 210
Household types, total.....	8	669, 027	25, 095, 008
Electric.....	8	323, 474	16, 481, 823
Foot and hand.....	5	345, 553	8, 613, 185
Industrial types, total.....	18	122, 641	12, 001, 736
Electric.....	14	113, 890	11, 144, 719
Other.....	5	8, 751	887, 017
Sewing machines not reported in detail as to type.....	3	2, 080	281, 466
Parts and attachments.....	31		3, 581, 892

<b>TEXTILE MACHINERY AND PARTS</b>			
Aggregate.....	(1)	Number	\$115, 525, 123
Fiber to fabric machinery, total.....	43		23, 106, 002
Picker machines.....	10	1, 741	1, 903, 446
Carding machines.....	8	3, 290	2, 847, 993
Combing machines and drawing frames.....	6	3, 572	827, 723
Roving machines.....	6	656	994, 940
Spinning machines.....	11	5, 419	4, 858, 799
Doubling and twisting frames.....	13	2, 350	4, 150, 465
Winders—skein, spool, bobbin, quill, cone, etc.....	17	111, 333	4, 824, 962
Beaming, warping, and slashing machines.....	11	944	2, 697, 674
Fabric machinery, total.....	40		29, 942, 030
Looms for weaving, other than carpet and rug.....	8	18, 772	9, 027, 422
Looms for weaving, carpet and rug.....	6	641	617, 147
Knitting machines.....	22		19, 060, 547
Braiding machines.....	3	6, 547	941
Other fabric machines, including lace and net, embroidery, and cordage and rope machines.....	5		2
Machinery for bleaching, dyeing, printing, mercerizing, finishing, etc., stock, yarn, and cloth.....	42		
Other textile machinery.....	66		
Extra parts, attachments, and accessories for textile machinery.....	285		

See footnotes on p. 130.

INDUSTRY GROUP 14.—TRANSPORTATION EQUIPMENT, AIR, LAND, AND WATER—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>MOTOR VEHICLES—Continued</b>			
Chassis, total.....	113	Number 512, 219	\$298,847, 221
Passenger (not including bus).....	46	76, 401	32,397, 856
Commercial and bus.....	97	435, 818	266, 449, 365
Trailers.....	56	22, 406	10, 816, 120

MOTOR-VEHICLE BODIES AND MOTOR-VEHICLE PARTS

Aggregate.....	(?)	Number	\$1, 393, 907, 554
<b>Bodies:</b>			
Passenger (not including public conveyance), total.....	67	2, 562, 413	509, 376, 580
Closed—			
Coupés (including convertible).....	38	632, 479	100, 365, 937
2-door sedans or coaches.....	26	619, 542	95, 315, 577
4-door sedans.....	47	1, 155, 844	273, 737, 273
Other (landau, broughams, etc.).....	45	94, 850	26, 162, 443
Open—			
Roadsters and runabouts.....	27	42, 284	7, 940, 057
Other.....	23	17, 414	5, 855, 243
Truck and commercial, total.....	562	259, 033	41, 164, 959
Panel (including van).....	349	58, 556	13, 826, 790
Platform (including stake).....	323	97, 849	6, 636, 530
Express (including screen).....	200	37, 245	5, 814, 191
Truck, not specified by kind.....	126	21, 901	5, 866, 308
Dump.....	91	41, 611	7, 766, 975
Hearse.....	36	1, 871	1, 254, 165
Public conveyances, total.....	120	17, 840	16, 993, 022
Bus—			
Under 21 passengers.....	56	2, 990	1, 984, 457
21 to 32 passengers.....	60	4, 737	6, 140, 344
33 passengers and over.....	40	1, 409	3, 260, 546
Taxicab.....	3	8, 704	5, 607, 675
Other.....	79	6, 412	2, 193, 304
<b>Parts:</b>			
Radiators (shells and cores).....	43		59, 420, 739
Windshields.....	22	3, 475, 721	14, 563, 231
<b>Gears—</b>			
Transmission, differential, etc.....	36		85, 851, 601
Steering, complete units.....	8	3, 841, 851	19, 097, 825
Clutches.....	5	2, 323, 320	8, 122, 599
Axles, total.....	16	3, 599, 904	94, 865, 235
Front.....	14	1, 943, 117	25, 170, 669
Rear, complete.....	11	1, 656, 787	69, 694, 566
Rear-axle housings.....	8	1, 212, 289	4, 305, 251
Axle shafts, rear.....	10	1, 016, 644	2, 136, 063
Wheels, total.....	32	19, 939, 569	62, 194, 634
Wire and cast metal spoke <sup>13</sup> .....	17	12, 628, 177	38, 336, 136
Disk.....	9	3, 127, 042	13, 200, 939
Wood.....	15	4, 184, 350	10, 657, 509
Rims.....	7	23, 708, 539	15, 102, 934
Shock absorbers (actual number).....	17	13, 897, 169	31, 066, 336
Bumpers.....	34	5, 077, 146	19, 421, 113
Bumperettes (pairs).....	24	2, 989, 206	10, 858, 039
Horns.....	16	8, 014, 268	9, 465, 580
Windshield wipers.....	14		8, 321, 572
Sheet-metal parts for motor vehicles, such as fenders, dust shields, hoods or bonnets, etc.....	34		24, 471, 557
Parts and accessories not reported in detail.....	491		353, 297, 771
Products not distributed by kind.....	69		1, 017, 609

See footnotes on p. 137.

other) broadcast seeders are included in these items in order to avoid disclosing the production of individual establishments.

<sup>19</sup> Bean, cross-row, field, spring-tooth, 3-row, and universal cultivators; celery bankers; fallowators; horse hoes and potato hoes; lister-cultivators; shovel plows; etc.

<sup>20</sup> Cane loaders, corn cutters, cotton pickers, kaffir headers, potato planters and diggers, potato pickers and baggers, windrow harvesters, pick-up attachments, etc. Data for grain headers, rice binders, and corn snappers are included in these items in order to avoid disclosing the production of individual establishments.

<sup>21</sup> Buck rakes, hay pick-ups, etc. Data for windrowers and bunchers are included in these items in order to avoid disclosing the production of individual establishments.

<sup>22</sup> Ensilage harvesters and blowers, hand hay presses, seed-corn driers, seed-corn drying racks, bean sorters, smut-treating machines, thresher recleaners, corn graders, fruit presses, onion toppers, tobacco-barn equipment, root cutters, combination mills, hammer mills, pea hullers, etc. Data for rice threshers, clover hullers, and cane-sirup evaporator furnaces are also included in order to avoid disclosing the production of individual establishments.

<sup>23</sup> The value of tracklaying attachments used to convert wheeled-type tractors into tracklaying type is included in these items in order to avoid disclosing data for individual establishments.

<sup>24</sup> Includes data for 1,788 tractors reported as 2 to 3 plow pull.

<sup>25</sup> Includes data for 9,321 tractors reported as 3 to 4 plow pull and 221 reported as 4 to 5 plow pull.

<sup>26</sup> 205 tractors reported as 5-plow pull, 124 reported as 6-plow pull, 82 reported as 6 to 8 plow pull, and 13 reported as 6 to 10 plow pull.

<sup>27</sup> Principally tobacco trucks.

<sup>28</sup> The value of tracklaying attachments for wagons is included in this item in order to avoid disclosing the production of individual establishments.

<sup>29</sup> Animal pokes, barn cupolas, ventilating systems, hoists, tanks for dipping, hauling, and storage, hog catchers, hog houses, hog oilers, and scrapers, milking stools, etc., and miscellaneous undistributed barn equipment.

<sup>30</sup> Brood coops, brooder houses, bone cutters, nests, roosts, sprouters, and miscellaneous poultry-farm supplies, etc.

<sup>31</sup> The values of some of the sprayers include the values of built-in engines.

<sup>32</sup> Ditchers and graders, fence stretchers, hand weeders, implement tongues, brush rakes and burners, water sprinklers, well casing, terracing implements, corn and hay knives, grass hooks, husking pins, knife and tool grinders, stone boats, small garden tools, steel wheels, power transmitters, concrete mixers (for farm use), disk sharpeners, grain augers, grain tanks, post-hole augers and diggers, sheep shears, farm ladders, farm scales, overhead irrigation systems, drag scrapers, shovel handles, milk cans and coolers, etc. Data for grain cradles and wood-sawing machines (drag) included in these items in order to avoid disclosing the production of individual establishments.

<sup>33</sup> Includes attachments and parts for lighting plants, lightning rods, saw machines, etc., and miscellaneous undistributed items.

<sup>34</sup> "Other machine-shop products" include data for machine-shop products not called for separately on schedule. Some of the principal items are air and vacuum brakes, automobile steering wheels and jacks, carburetors, chlorine-control apparatus, dumb-waiters, fabricated pipe and fittings, gage equipment, lubricators, railroad appliances, and valves, fittings, and hydrants.

<sup>35</sup> In addition, machinery to the value of \$158,701,165 was reported for classes otherwise specified. See "Foundry and machine-shop" section of this table.

<sup>36</sup> The net numbers of establishments reporting the several products are not shown by the census tabulations.

<sup>37</sup> Data incomplete.

<sup>38</sup> Includes tools for servicing and manufacturing.

<sup>39</sup> Includes data for paint-spraying outfits.

<sup>40</sup> Includes paint-spray guns.

<sup>41</sup> Both gas-heated and electrically-heated ironers

## INDUSTRY GROUP 14.—TRANSPORTATION EQUIPMENT, AIR, LAND, AND WATER

[This table presents statistics for all commodities covered by the Census of Manufactures classification, except those for which the figures must be withheld from publication in order to avoid disclosing, exactly or approximately the data reported by individual establishments. (See sec. 7 of General Explanations)]

PRODUCT	Number of establishments	Quantity	Value
<b>AIRCRAFT AND PARTS <sup>1</sup></b>			
Aggregate.....	(?)	<i>Number</i>	\$66,645,906
Aircraft heavier than air (with engines) completed within the year:			
Airplanes, total.....	<sup>3</sup> 95	4 6,522	46,847,691
1, 2, and 3 place, open cockpit.....	73	4,277	21,863,507
Small transport, mail, and express, open cockpit.....	6	206	2,780,145
Cabin, single-engine.....	32	1,350	9,185,791
Cabin, multimotored.....	13	<sup>5</sup> 251	12,240,394
Rebuilt and reassembled.....	20	438	777,854
Seaplanes and amphibians.....	13	<sup>6</sup> 109	4,660,429
Parachutes.....	4	6,188	1,437,602
Propellers.....	13	14,904	2,090,834
Other aeronautical products <sup>7</sup> .....	8		648,797
Parts and engines for sale as such <sup>8</sup> .....	59		10,960,553

### CARRIAGE, WAGON, SLEIGH, AND SLED MATERIALS

[Principal products: Bodies, tops, cushions, hubs, felloes, spokes, wheels, whiffletrees, carriage boots and aprons, axles, dashboards, neck yokos, whip sockets, etc.]

(Commodities not reported in detail).....	45	\$2,792,228
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### CARRIAGES AND SLEDS, CHILDREN'S, AND TOYS, GAMES, AND PLAYGROUND EQUIPMENT

Aggregate.....	(?)	<i>Number</i>	\$112,621,129
Children's carriages and other wheel goods and children's sleds, total.....	<sup>3</sup> 116		29,506,112
Baby carriages—			
Number reported.....	38	286,760	4,809,670
Number not reported.....			1,379,320
Gocarts, strollers, and sulkies.....	35	309,441	2,362,307
Doll carriages and doll carts—			
Number reported.....	36	1,307,546	3,504,068
Number not reported.....			166,368
Velocipedes and tricycles.....	16	905,050	4,696,021
Sidewalk cycles.....	13	80,278	729,628
Children's automobiles.....	5	205,352	1,020,740
Children's wagons (coaster, express, and play)—			
Number reported.....	34	1,807,439	3,842,124
Number not reported.....			166,071
Scooters.....	27	470,917	656,423
3-wheel play cars (with or without pedals).....	22	580,374	966,241
Baby walkers and tenders.....	21	331,526	783,061
Sleds—			
Number reported.....	19	628,866	617,096
Number not reported.....			254,510
Parts of children's wheel goods.....	4		935,692
Wheel goods not specified by kind.....	15		2,111,754

See footnotes on p. 137.

INDUSTRY GROUP 14.—TRANSPORTATION EQUIPMENT, AIR, LAND, AND WATER—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>CARRIAGES AND SLEDS, CHILDREN'S, AND TOYS, GAMES, AND PLAYGROUND EQUIPMENT—Continued</b>			
Toys, games, and playground equipment, total.....	540	<i>Number</i>	\$83, 115, 017
Dolls, other than pyroxylin.....	86	15, 151, 801	12, 397, 935
Doll parts.....	31		2, 912, 452
Doll clothes.....	21		670, 244
Mechanical toys (not including toy trains).....	22		3, 580, 152
Toy trains.....	8		4, 309, 241
Metal toys (other than mechanical toys and toy trains).....	76		13, 641, 472
Wooden toys.....	62		6, 575, 040
China, clay, and composition toys.....	9		699, 143
Stuffed animals.....	30		1, 882, 692
Play furniture.....	35		3, 485, 139
Rubber toys, other than toy balloons.....	5		3, 966, 301
Toys not specified above (including paper toys) and games.....	140		15, 167, 597
Playground equipment.....	45		6, 821, 502
Rubber toy balloons.....	30		3, 090, 807
Products not distributed by kind.....	6		3, 544, 711
Parts of toys and games.....	16		370, 589

CARRIAGES, WAGONS, SLEIGHS, AND SLEDS

Aggregate.....	(?)	<i>Number</i>	\$14, 633, 250
Horse-drawn vehicles:			
Number reported.....		116, 489	10, 373, 797
Number not reported.....			430, 689
Farm wagons.....	42	40, 687	3, 789, 496
Farm trucks.....	25	60, 969	2, 518, 180
Business wagons, including mail carrier's, lunch wagons, and public conveyances—			
Number reported.....	40	4, 122	3, 465, 133
Number not reported.....			413, 949
Carriages, buggies, and sulkies.....	12	3, 597	346, 661
2-wheeled carts.....	16	3, 323	145, 033
Sleighs and sleds (including bobsleds)—			
Number reported.....	8	3, 792	109, 254
Number not reported.....			16, 740
Wheelbarrows.....	25		3, 560, 387
Handcarts and pushcarts.....	12	14, 132	268, 397

CARS, ELECTRIC AND STEAM RAILROAD

Aggregate.....	(?)	<i>Number</i>	\$347, 395, 097
Cars, total.....	58		249, 678, 748
Steam-railroad cars, total.....	48	87, 754	242, 450, 961
Passenger service, total.....	18	1, 511	41, 874, 722
Day coaches.....	10	342	6, 816, 79
Baggage and express.....	10	369	6, 475, 7
Chair, parlor, dining and buffet, mail, and sleeping.....	5	521	18, 31
Self-propelled.....	6	146	6, 8
Other, and undistributed.....	8	133	3, /
Freight service, total.....	71	86, 243	?
Box.....	17	34, 188	
Caboose.....	6	458	
Flat.....	13	2, 845	
Gondola.....	19	12, 644	
Hopper.....	14	10, 132	
Refrigerator.....	12	5, 165	
Stock.....	6	2, 469	
Tank.....	5	3, 290	
Other, and undistributed.....	29	15, 072	

See footnotes on p. 137.

## INDUSTRY GROUP 14.—TRANSPORTATION EQUIPMENT, AIR, LAND, AND WATER—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>CARS, ELECTRIC AND STEAM RAILROAD—Continued</b>			
Cars, total—Continued.		<i>Number</i>	
Electric-railroad cars, total <sup>10</sup> .....	(2)	551	\$6, 015, 793
Passenger.....	14	513	6, 340, 675
Freight.....	4		
Other, and undistributed <sup>10</sup> .....	5	38	266, 118
Cars not distributed as to service, kind, or number.....	9		611, 994
Other products, including car parts, value, and receipts for repair work.....			97, 716, 940
<b>LOCOMOTIVES</b>			
Aggregate.....	(2)	<i>Number</i>	\$74, 254, 181
Steam, standard gage.....	10	892	61, 543, 983
Steam, mining and industrial.....	5	103	1, 261, 124
Internal-combustion, standard-gage, and mining and industrial <sup>11</sup> .....	9	700	2, 398, 252
Parts for steam, internal-combustion, and electric locomotives <sup>12</sup> .....			9, 050, 822
<b>MOTOR CYCLES, BICYCLES, AND PARTS</b>			
Aggregate.....	(2)	<i>Number</i>	\$21, 198, 240
Motor cycles.....	3	31, 912	7, 542, 862
Motor-cycle side cars.....	5	8, 672	513, 187
Motor-cycle parts.....	10		2, 679, 462
Bicycles.....	7	307, 845	6, 183, 773
Bicycle parts.....	24		4, 278, 065
<b>MOTOR VEHICLES</b>			
Aggregate.....	(2)	<i>Number</i>	\$3, 422, 871, 872
Passenger vehicles (not including public conveyances), total.	89	4, 362, 215	2, 767, 339, 368
Closed, total.....	89	3, 916, 783	2, 537, 349, 561
Coupés (including convertible).....	87	945, 062	567, 118, 238
2-floor sedans and coaches.....	70	1, 268, 170	625, 715, 203
4-door sedans.....	85	1, 629, 806	1, 269, 459, 602
Other closed (landaus, broughams, etc.).....	62	73, 745	75, 056, 518
Open, total.....	85	444, 845	220, 401, 843
Roadsters and runabouts.....	78	298, 401	151, 108, 503
Other.....	81	146, 444	78, 293, 340
Other passenger.....	3	587	587, 964
Public conveyances, total.....	62	26, 100	58, 361, 038
Motor busses (school, sight-seeing, and public-utility)—			
Under 21 passengers.....	38	5, 639	7, 452, 042
21 to 32 passengers.....	21	2, 332	13, 572, 817
33 passengers and over.....	7	1, 101	10, 587, 618
Taxicabs.....	30	17, 028	26, 748, 561
Commercial vehicles, total.....	146	391, 593	277, 352, 017
Light delivery (less than 1 ton).....	62	124, 414	64, 229, 473
Trucks (1 ton and over).....	123	261, 523	205, 772, 262
Hearses and undertakers' wagons.....	8	2, 316	5, 655, 220
Other.....	3	3, 340	1, 695, 062
Government (Federal, State, county, and municipal), etc., total.....	26	1, 960	10, 156, 108
Ambulances.....	7	361	1, 005, 864
Fire-department apparatus.....	17	1, 350	7, 863, 644
Other (patrol wagons, street sprinklers, street sweepers, etc.).....	7	249	1, 286, 600

See footnotes on p. 137.

INDUSTRY GROUP 14.—TRANSPORTATION EQUIPMENT, AIR, LAND, AND WATER—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>MOTOR VEHICLES—Continued</b>			
Chassis, total.....	113	<i>Number</i> 512, 219	\$298,847, 221
Passenger (not including bus).....	46	76, 401	32,397, 856
Commercial and bus.....	97	435, 818	266, 449, 365
Trailers.....	56	22, 406	10, 816, 120
<b>MOTOR-VEHICLE BODIES AND MOTOR-VEHICLE PARTS</b>			
Aggregate.....	(?)	<i>Number</i>	\$1, 393, 907, 554
<b>Bodies:</b>			
Passenger (not including public conveyance), total.....	67	2, 562, 413	509, 376, 580
Closed—			
Coupés (including convertible).....	38	632, 479	100, 365, 937
2-door sedans or coaches.....	26	619, 542	95, 315, 577
4-door sedans.....	47	1, 155, 844	273, 737, 273
Other (landau, broughams, etc.).....	45	94, 850	26, 162, 443
Open—			
Roadsters and runabouts.....	27	42, 284	7, 940, 057
Other.....	23	17, 414	5, 855, 243
Truck and commercial, total.....	562	259, 033	41, 164, 959
Panel (including van).....	349	58, 556	13, 826, 790
Platform (including stake).....	323	97, 849	6, 636, 530
Express (including screen).....	200	37, 245	5, 814, 191
Truck, not specified by kind.....	126	21, 901	5, 866, 308
Dump.....	91	41, 611	7, 766, 975
Hearse.....	36	1, 871	1, 254, 165
Public conveyances, total.....	120	17, 840	16, 993, 022
Bus—			
Under 21 passengers.....	56	2, 990	1, 984, 457
21 to 32 passengers.....	60	4, 737	6, 140, 344
33 passengers and over.....	40	1, 409	3, 260, 546
Taxicab.....	3	8, 704	5, 607, 675
Other.....	79	6, 412	2, 193, 304
<b>Parts:</b>			
Radiators (shells and cores).....	43		59, 420, 739
Windshields.....	22	3, 475, 721	14, 563, 231
Gears—			
Transmission, differential, etc.....	36		85, 851, 601
Steering, complete units.....	8	3, 841, 851	19, 097, 825
Clutches.....	5	2, 323, 320	8, 122, 599
Axles, total.....	16	3, 599, 904	94, 865, 235
Front.....	14	1, 943, 117	25, 170, 669
Rear, complete.....	11	1, 656, 787	69, 694, 566
Rear-axle housings.....	8	1, 212, 289	4, 305, 251
Axle shafts, rear.....	10	1, 016, 644	2, 136, 063
Wheels, total.....	32	19, 939, 569	62, 194, 634
Wire and cast metal spoke <sup>13</sup> .....	17	12, 628, 177	38, 336, 136
Disk.....	9	3, 127, 042	13, 200, 939
Wood.....	15	4, 184, 350	10, 657, 509
Rims.....	7	23, 708, 539	15, 102, 934
Shock absorbers (actual number).....	17	13, 897, 169	31, 066, 336
Bumpers.....	34	5, 077, 146	19, 421, 113
Bumperettes (pairs).....	24	2, 989, 206	10, 858, 039
Horns.....	16	8, 014, 268	9, 465, 580
Windshield wipers.....	14		8, 321, 572
Sheet-metal parts for motor vehicles, such as fenders, dust shields, hoods or bonnets, etc.....	34		24, 471, 557
Parts and accessories not reported in detail.....	491		353, 297, 771
Products not distributed by kind.....	69		1, 017, 609

See footnotes on p. 137.

## INDUSTRY GROUP 14.—TRANSPORTATION EQUIPMENT, AIR, LAND, AND WATER—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>SHIP AND BOAT BUILDING:</b>			
Aggregate.....	(?)	Number	\$104,883,513
Ship and boat building, total.....	(?)		83,398,744
Vessels of 5 gross tons and over—			
Number launched.....	230	1,553	68,953,802
Gross tonnage.....		517,433	
Net tonnage.....		365,153	
Steel—			
Number launched.....	56	475	53,417,638
Gross tonnage.....		289,050	
Net tonnage.....		182,679	
Steam—			
Number launched.....	21	43	36,104,864
Gross tonnage.....		145,547	
Net tonnage.....		51,137	
Motor—			
Number launched.....	22	64	9,524,472
Gross tonnage.....		21,554	
Net tonnage.....		12,263	
Sail, with auxiliary power—			
Number launched.....		9	47,000
Gross tonnage.....		116	
Net tonnage.....		105	
Sail, without auxiliary power—			
Number launched.....		3	45,000
Gross tonnage.....		180	
Net tonnage.....		135	
Unrigged—			
Number launched.....	35	356	7,696,302
Gross tonnage.....		121,653	
Net tonnage.....		119,039	
Barges, including sloop and schooner barges—			
Number launched.....	25	315	6,106,707
Gross tonnage.....		107,260	
Net tonnage.....		105,314	
Lighters, scows, pile drivers, etc.—			
Number launched.....	16	41	1,589,535
Gross tonnage.....		14,393	
Net tonnage.....		13,725	
Wooden—			
Number launched.....	176	1,078	15,536,164
Gross tonnage.....		228,383	
Net tonnage.....		182,474	
Steam—			
Number launched.....	7	9	137,250
Gross tonnage.....		790	
Net tonnage.....		577	
Motor—			
Number launched.....	114	626	10,712,880
Gross tonnage.....		18,784	
Net tonnage.....		13,329	
Sail, with auxiliary power—			
Number launched.....	32	73	1,137,324
Gross tonnage.....		3,373	
Net tonnage.....		2,254	
Sail, without auxiliary power—			
Number launched.....	7	14	173,690
Gross tonnage.....		585	
Net tonnage.....		518	

INDUSTRY GROUP 14.—TRANSPORTATION EQUIPMENT, AIR, LAND, AND WATER—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>SHIP AND BOAT BUILDING—Continued</b>			
Ship and boat building—Continued.			
Vessels of 5 gross tons and over—Continued.			
Wooden—Continued.			
Unrigged—		<i>Number</i>	
Number launched.....	347	356	\$3,375,020
Gross tonnage.....		204,851	
Net tonnage.....		165,796	
Barges, including sloop and schooner barges—			
Number launched.....	21	90	514,563
Gross tonnage.....		17,918	
Net tonnage.....		15,870	
Canal boats—			
Number launched.....	7	42	606,604
Gross tonnage.....		135,265	
Net tonnage.....		103,396	
Lighters, scows, pile drivers, etc.—			
Number launched.....	35	224	2,253,853
Gross tonnage.....		51,668	
Net tonnage.....		40,530	
Boats under 5 gross tons—			
Motor boats, total.....	162	<i>Number launched</i>	11,397,119
Inboard.....	118	2,600	8,147,501
Outboard.....	58	12,330	3,249,618
Sailboats.....	39	768	531,528
Rowboats.....	59	6,531	399,919
Lifeboats, total.....	22		417,185
Motor-propelled.....	6	30	36,108
Hand-propelled.....	18	760	381,077
Canoes.....	8	4,683	341,092
Other.....	22	1,740	271,221
Ships and boats not distributable.....	15		1,086,878
Value of work done on vessels under construction but not yet launched, and on those launched prior to 1929:			
Steel.....	33		18,061,390
Wooden.....	64		3,423,379

<sup>1</sup> The amounts under this heading represent products manufactured during the period covered, whether sold or not.

<sup>2</sup> The aggregate numbers of establishments—i. e., the sums of the several items for a given group of products—are not shown because such aggregates would greatly overstate the actual numbers of establishments reporting the groups of products in question. This condition arises because in practically all cases each establishment is engaged in the manufacture of more than one of the individual products or classes of products. The net numbers of establishments reporting the several groups of products are not shown by the census tabulations.

<sup>3</sup> Inasmuch as some establishments manufacture more than 1 kind of product, the totals in this column are smaller than the sum of the figures below them.

<sup>4</sup> Includes data for 433 rebuilt and reassembled airplanes.

<sup>5</sup> Includes data for 35 airplanes reported as "bombers."

<sup>6</sup> Includes data for 79 amphibians and 4 rebuilt seaplanes.

<sup>7</sup> Airships, balloons, kites, etc.

<sup>8</sup> Only engines made as secondary products by manufacturers of complete aircraft.

<sup>9</sup> Combined to avoid disclosing production of individual establishments.

<sup>10</sup> Includes 6 gasoline-electric motor cars for electric railways.

<sup>11</sup> Statistics for standard gage and mining and industrial internal-combustion locomotives can not be given separately without disclosing the production of individual establishments.

<sup>12</sup> Electric locomotives are treated for census purposes as products of the "Electrical machinery, apparatus, and supplies industry," and, therefore, most of the parts of such locomotives are made by establishments classified in that industry.

<sup>13</sup> Figures include data for the output of 3 establishments manufacturing wire wheels, to avoid disclosing their production.

## INDUSTRY GROUP 15.—RAILROAD REPAIR SHOPS

[This table presents statistics for all commodities covered by the Census of Manufactures classification, except those for which the figures must be withheld from publication in order to avoid disclosing, exactly or approximately, the data reported by individual establishments. (See sec. 7 of General Explanations)]

PRODUCT	Number of establishments	Quantity	Value
<b>ELECTRIC-RAILROAD REPAIR SHOPS</b>			
Aggregate value of work done and products manufactured.....	(1)	Number	\$85,481,577
Motive-power and machinery departments, total.....	3 124		7,949,898
Repairs to motors, etc.....	123		6,183,950
Work for other corporations.....	9		233,296
Other work and products.....	4 13		426,652
Car departments, total.....	3 444		74,632,863
Cars built, total.....	7		675,975
Passenger.....		2 71	659,074
Freight.....		2 2	4,041
Other.....		2 5	12,860
Repairs to cars of all kinds.....	437		64,934,462
Work for other corporations.....	41		1,404,567
Other work and products.....	100		7,617,850
Bridge and building departments (shop work only), total.....	3 18		420,905
Repairs and renewals.....	18		260,081
Work for other corporations.....			153
Other work and products.....	4		160,671
Other work done and products manufactured, not reported in detail.....	49		3,053,911
<b>STEAM-RAILROAD REPAIR SHOPS</b>			
Aggregate.....	(1)	Number	\$1,184,435,262
Motive-power and machinery departments, total.....	3 1,589		592,292,798
Locomotives built.....	6	2 70	23,164,413
Repairs to locomotives, etc.....	1,561		431,924,697
Work for other corporations.....	339		10,492,867
Other work and products.....	1,089		146,710,821
Car departments, total.....	3 1,690		534,066,422
Cars built, total.....	3 37		22,947,182
Passenger.....	6	2 83	1,461,619
Freight.....	32	2 12,547	20,568,190
Other.....	7	2 45	617,373
Repairs to cars, all kinds.....	1,651		433,930,278
Work for other corporations.....	360		14,237,121
Other work and products.....	942		63,851,841
Bridge and building departments (shop work only), total.....	3 237		4,230,863
Repairs and renewals.....	224		3,366,613
Work for other corporations.....	3		18,502
Other work and products.....	29		854,848
Other work done and products manufactured, not reported in detail.....	378		52,936,179

<sup>1</sup> The aggregate numbers of establishments—i. e., the sums of the several items for a given group of products—are not shown because such aggregates would greatly overstate the actual numbers of establishments reporting the groups of products in question. This condition arises because in practically all cases each establishment is engaged in the manufacture of more than one of the individual products or classes of products. The net numbers of establishments reporting the several groups of products are not shown by the census tabulations.

<sup>2</sup> These figures refer only to production in railroad repair shops. For total production of locomotives and of cars, see "Locomotives," p. 134, and "Cars, electric and steam railroad," p. 133.

<sup>3</sup> Inasmuch as some plants manufacture more than 1 kind of product, the totals in this column are smaller than the sums of the figures below them.

<sup>4</sup> Includes value for and number of establishments making "Electric locomotives." Combined to avoid disclosing data for individual establishments.

<sup>5</sup> Includes 2 electric locomotives.

## INDUSTRY GROUP 16.—MISCELLANEOUS INDUSTRIES

[This table presents statistics for all commodities covered by the Census of Manufactures classification, except those for which the figures must be withheld from publication in order to avoid disclosing, exactly or approximately, the data reported by individual establishments. (See sec. 7 of General Explanations)]

PRODUCT	Number of establishments	Quantity	Value
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### ARTIFICIAL AND PRESERVED FLOWERS AND PLANTS

[Principal products: Artificial flowers, leaves, plants, palms, grasses, vines, buds, and fruit, made of textiles, wax, or paper; preserved flowers, plants, stems, and other parts, for use in the manufacture of artificial flowers and also for decorative purposes]

(Commodities not reported in detail) .....	191		\$14,425,420
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### ARTISTS' MATERIALS

[Principal products: Canvas board, prepared canvases or frames, air brushes for portrait work, air compressors for art work, easels, drawing tables and boards, palettes, sketch boxes, and pantographs; oil colors, wax, tailors' chalk, crayons, and crayon pencils; gold and bronze mixtures, powders, paints, and size; gold and aluminum enamel and paint for china painting; pyrography goods, including platinum points; drawing inks; and drafting materials.]

(Commodities not reported in detail) .....	68		\$9,459,565
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### BROOMS

	(1)	Dozens 4,325,644	\$20,834,443
Aggregate .....			
Household brooms, total .....	2 396	3,347,839	16,932,817
Made of broomcorn .....	386	3,306,125	16,658,941
Made of bassine .....	24	41,714	273,876
Whisk brooms, total .....	2 69	553,133	1,208,083
Made of broomcorn .....	63	468,371	1,017,661
Made of other materials .....	7	84,762	190,422
Toy and hearth brooms, made of broomcorn .....	22	86,026	125,275
Industrial brooms, total .....	2 113	331,547	1,955,602
Made of broomcorn .....	72	173,759	1,000,147
Made of broomcorn and other materials (mixed) .....	39	78,059	450,231
Made of bass or bassine or both .....	12	39,566	303,088
Made of bamboo, rattan, or reed, or mixtures thereof .....	20	40,163	202,136
Street-sweeping-machine brooms .....	5	1,800	40,394
Other brooms .....	24	5,299	572,272

### BRUSHES, OTHER THAN RUBBER

	(1)		\$45,232,747
Aggregate .....			
Toothbrushes .....	13		5,714,727
Other toilet brushes .....	49		5,129,097
Paint and varnish brushes (including artists' brushes) .....	63		16,705,771
Household brushes .....	102		7,394,686
Industrial brushes, total .....	2 144	144	6,228,375
Rotary, power .....	66		3,188,559
Other (including push brooms) .....	100		3,039,816
Brushes, not reported by kind .....	69		4,060,091

See footnotes on p. 148.

## INDUSTRY GROUP 16.—MISCELLANEOUS INDUSTRIES—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>BUTTONS</b>			
Aggregate.....	( <sup>1</sup> )	Gross	\$28,412,586
Buttons, total.....	<sup>2</sup> 160		24,215,203
Pearl or shell, fresh-water—			
Clothing.....	22	21,447,983	6,804,792
Shoe <sup>3</sup> .....	5	558,158	241,770
Pearl or shell, ocean—			
Clothing.....	37	6,052,399	5,251,804
Shoe <sup>4</sup> .....	5	755,218	459,139
Shoe, other than pearl or shell <sup>5</sup> .....	6	609,710	119,724
Clothing—			
Vegetable-ivory.....	11	6,825,036	4,050,212
Pyroxylin.....	17	391,248	1,182,850
Horn.....	5	1,228,144	228,403
Glass.....	3	114,000	83,745
Metal—			
Embossed.....	6	2,843,427	1,209,850
Other metal.....	4	4,923,835	1,070,375
Galalith.....	21	1,190,052	714,590
Covered.....	41	1,183,439	759,330
Composition.....	8	6,084,188	1,112,288
Other buttons <sup>6</sup> .....	18	4,028,790	836,127
Button blanks and molds:			
For sale as such.....	46	8,005,227	1,863,641
Transferred to finishing plants under same ownership.....	36	7,194,611	2,108,011
Parts of buttons, backs, etc., for sale as such.....	( <sup>1</sup> )		225,731
<b>CARBON PAPER AND INKED RIBBONS</b>			
Aggregate.....	( <sup>1</sup> )		\$16,781,452
Carbon paper.....	46		10,157,384
Typewriter ribbons.....	56		5,471,863
Other inked ribbons.....	14		1,152,705
<b>COMBS AND HAIRPINS, NOT MADE FROM METAL OR RUBBER</b>			
[Principal products: Combs and hairpins; barettes; ornaments and novelties used in women's headress; made of fiber, bone, horn, tortoise shell, celluloid, and ivory]			
(Commodities not reported in detail).....	24		\$2,482,410
<b>DAIRYMEN'S SUPPLIES; CREAMERY, CHEESE-FACTORY, AND BUTTER-FACTORY EQUIPMENT; AND POULTRYMEN'S AND APIARISTS' SUPPLIES</b>			
Aggregate.....	( <sup>1</sup> )		\$45,606,890
Dairymen's equipment and supplies.....	91		26,709,534
Poultrymen's equipment and supplies.....	111		16,702,608
Apiarists' equipment and supplies.....	22		2,194,748
<b>DENTAL GOODS AND EQUIPMENT</b>			
Aggregate.....	( <sup>1</sup> )		\$33,029,317
Dental gold.....	26		12,287,031
Dental alloys for amalgams.....	18		1,318,654
Dental cements and filling materials (except alloys).....	13		736,211
Teeth.....	11		6,692,838

See footnotes on p. 148.

INDUSTRY GROUP 16.—MISCELLANEOUS INDUSTRIES—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>DENTAL GOODS AND EQUIPMENT—Continued</b>			
Burrs, drills, broaches, and similar products.....	9	-----	\$797, 563
Rubber, waxes, and compounds.....	17	-----	474, 921
Dental chairs.....	6	-----	1, 177, 073
Equipment units.....	8	-----	2, 698, 740
Other dental goods.....	46	-----	6, 876, 286

**FANCY AND MISCELLANEOUS ARTICLES, NOT ELSEWHERE CLASSIFIED**

[Principal products: Beaded articles, celluloid novelties, art novelties, holiday goods, photo jewelry and buttons, inlaid veneer work, silk watch chains, burnt-wood articles, lamp shades, bric-a-brac, composition ornaments, needle and pin books, and decalomania work (not on china or glass).]

(Commodities not reported in detail).....	814	-----	\$85, 388, 961
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**FEATHERS, PLUMES, AND MANUFACTURES THEREOF**

[The preparation of fancy feathers, plumes, quills, and articles made principally from feathers and plumes for the trade, including the dyeing, curling, and renovating of ostrich feathers]

(Commodities not reported in detail).....	39	-----	\$1, 141, 418
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**FOUNDRY SUPPLIES**

[Principal products: Foundry facings, cement for castings, core oils and compounds, chaplets, wax, flux, "parting" composition, flasks, sieves, pipe blacking, and plumbago]

(Commodities not reported in detail).....	59	-----	\$10, 458, 589
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**FUR GOODS**

Aggregate.....	(1)	-----	\$253, 889, 717
Fur and fur-lined coats and overcoats, total.....	1, 643	-----	133, 839, 470
Men's.....	83	-----	4, 220, 498
Women's.....	1, 618	-----	129, 618, 972
Fur neck pieces.....	863	-----	21, 779, 241
Fur robes.....	26	-----	635, 238
Fur trimmings.....	1, 214	-----	93, 467, 356
Other fur and fur-lined goods.....	130	-----	4, 168, 412

**FURS, DRESSED**

[Scraping, currying, tanning, bleaching, and dyeing pelts, and dressing hair and bristles]

(Commodities not reported in detail).....	248	-----	\$40, 237, 192
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**HAIR WORK**

[Principal products: Ornamental hair work, theatrical and other wigs, toupees, switches, transformations, and other articles made from human hair and from mohair and other animal hair]

(Commodities not reported in detail).....	59	-----	\$1, 693, 588
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**HAND STAMPS AND STENCILS AND BRANDS**

[Principal products: Rubber and metal stamps, such as date and time stamps, stamps for marking textiles, wall paper, etc., and steel shoe stamps; dies, seals, and seal presses; check protectors; addressing-machine plates and stencils; numbering machines, branding irons for marking casks, boxes, and articles of merchandise]

(Commodities not reported in detail).....	332	-----	* \$15, 036, 023
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## INDUSTRY GROUP 16.—MISCELLANEOUS INDUSTRIES—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>HATS, STRAW, MEN'S</b>			
Aggregate.....	(1)	Dozen	\$22, 620, 484
Sewed-braid hats.....	45	714, 530	13, 209, 847
Woven-body hats (except harvest hats).....	18	135, 182	4, 850, 152
Harvest hats.....	16	1, 397, 403	4, 479, 485

**INSTRUMENTS, PROFESSIONAL AND SCIENTIFIC**

[Principal products: Surgical, dental, and veterinary instruments; physician's diagnostic apparatus; surveyor's, nautical, aeronautical, automotive, and similar instruments; precision and measuring instruments; indicating and recording instruments; hypodermic syringes; needle gage dials; speedometers, barometers, thermometers, compasses, dental mirrors; and dental-engine equipment]

(Commodities not reported in detail).....	276		\$89, 746, 369
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**IVORY, SHELL, AND BONE WORK, NOT INCLUDING BUTTONS, COMBS, OR HAIRPINS**

[Principal products: Articles made of ivory, shell, horn or bone, not elsewhere classified, such as mosaics, cutlery and toilet-article handles, fobs, buckles, fittings for jewelers' use, cane and umbrella handles, and inlay for musical instruments]

(Commodities not reported in detail).....	21		\$1, 200, 426
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**JEWELRY AND INSTRUMENT CASES**

[Principal products: Cases, trays, and fancy boxes for jewelry, instruments, cutlery, eyeglasses, combs, compasses, cigarettes, pipes, toilet sets, etc.]

(Commodities not reported in detail).....	113		\$8, 826, 727
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**LAPIDARY WORK**

[The cutting, recutting, polishing, and setting of diamonds and other precious and semiprecious stones, and the drilling of pearls; the preparation of jewels for watches and chronometers and for surveyor's instruments; and the preparation of real and imitation stones for emblems]

(Commodities not reported in detail).....	100		\$11, 042, 421
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**MATTRESSES AND BED SPRINGS, NOT ELSEWHERE CLASSIFIED**

Aggregate.....	(1)		\$107, 603, 883
Mattresses and pads, total.....	2 704		75, 197, 544
Inner-spring construction.....	421		33, 905, 070
Other.....	587		37, 770, 306
Not specified.....			3, 516, 168
Bed springs, total.....	2 318		31, 680, 765
Box.....	232		6, 280, 908
Other and not specified.....	217		25, 399, 857
Mattresses and bed springs not separately reported.....			725, 574

**MODELS AND PATTERNS, NOT INCLUDING PAPER PATTERNS**

[Principal products: Patterns and models for use in making matrices or molds for casting metal or for making brick, glassware, etc.; hat blocks, wax figures, dress and show forms, and similar commodities]

(Commodities not reported in detail).....	804		\$30, 621, 074
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See footnotes on p. 148.

INDUSTRY GROUP 16.—MISCELLANEOUS INDUSTRIES—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>MOTION PICTURES, NOT INCLUDING PROJECTION IN THEATERS</b>			
Aggregate cost of work done during year.....	(1)	Number	\$184, 102, 419
Negative films, aggregate cost.....	2 95		128, 496, 710
Theatrical, total.....	2 46	1, 204	118, 716, 041
Sound.....	22	340	34, 866, 785
Dialogue.....	22	585	67, 072, 006
Silent.....	17	270	16, 777, 250
News, cost.....	12		6, 152, 286
Advertising, cost.....	40		3, 377, 292
Educational, cost.....	15		251, 091
Unfinished productions, cost.....	30		17, 873, 060
Laboratory work:			
Positive films, cost.....	37		10, 646, 094
Receipts for laboratory work done for others.....			21, 104, 878
Value of other work done.....			1, 643, 395
Receipts for use of studio facilities.....			4, 338, 282

**MUSICAL INSTRUMENTS**

Aggregate.....	(1)	Number	\$76, 829, 338
Pianos, total.....	188	130, 973	37, 998, 695
Upright.....	69	49, 039	7, 869, 761
Upright, player.....	62	17, 336	4, 116, 294
Upright, player, reproducing type.....	17	1, 445	459, 668
Grand—			
Baby.....	59	36, 929	12, 851, 376
Baby, player.....	9	384	159, 884
Baby, player, reproducing type.....	25	5, 905	2, 672, 047
Parlor.....	30	7, 767	4, 159, 979
Parlor, player.....	4	42	30, 159
Parlor, player, reproducing type.....	20	2, 165	2, 135, 268
Concert.....	12	234	154, 821
Automatic and electric.....	9	9, 727	3, 359, 438
Organs, total.....	166	4, 502	11, 528, 667
Pipe.....	64	1, 799	11, 153, 383
Reed.....	5	2, 703	375, 284
Wind instruments, total.....	127	128, 696	5, 544, 747
Cup-mouthpiece instruments.....	21	71, 594	2, 459, 763
Saxophones.....	9	33, 196	2, 085, 910
Woodwinds.....	10	23, 906	999, 074
Stringed instruments, total.....	136		3, 067, 231
Banjos.....	22	80, 471	1, 192, 408
Guitars.....	18	162, 764	1, 040, 810
Mandolins.....	11	28, 490	244, 625
Ukuleles.....	14	142, 896	310, 776
Violins.....	8	4, 127	219, 235
Other.....	3		59, 377
Percussion instruments.....	13		2, 184, 832
Other instruments.....	18		728, 523
Piano and organ parts and materials (for sale as such), total.....	218		12, 946, 192
Pneumatic-player actions for installation in player pianos.....	15	50, 606	2, 778, 588
Other piano parts and materials.....	60		6, 517, 304
Organ parts and materials.....	39		1, 094, 746
Perforated music rolls.....	20		2, 555, 544
Parts and materials for musical instruments other than pianos and organs, for sale as such.....	45		2, 830, 451

See footnotes on p. 148.

## INDUSTRY GROUP 16.—MISCELLANEOUS INDUSTRIES—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>OPTICAL GOODS</b>			
Aggregate.....	(1)		\$39, 738, 171
Ophthalmic, total.....	2 97		29, 342, 851
Spectacle and eyeglass frames, mountings, and parts, total.....	2 56		14, 196, 788
All metal.....	29		7, 594, 616
Metal and zylonite.....	29		1, 919, 306
Zylonite and shell.....	36		4, 082, 786
Lenses, total.....	2 40		9, 557, 041
Single-vision.....	27		4, 458, 154
Multi-vision (bifocals and trifocals).....	24		4, 463, 493
Colored.....	15		635, 394
Goggles, eye protectors, mountings, and parts.....	19		3, 933, 076
Accessories (cases, holders, etc.).....	11		542, 270
Ophthalmic instruments and apparatus.....	6		690, 077
Glass eyes.....	5		130, 557
Other ophthalmic products.....	8		293, 032
Optical instruments and parts, total.....	2 19		7, 507, 897
Photographic and projection lenses and prisms.....	9		3, 320, 716
Optical measuring instruments.....	5		241, 577
Telescopes and field and opera glasses.....	9		195, 920
Other optical instruments and parts and accessories.....	10		3, 809, 678
Other optical goods.....	11		2, 827, 423

**PAVING MATERIALS: ASPHALT, TAR, CRUSHED SLAG, AND MIXTURES**

[Principal products: Asphalt paving blocks, asphalt compounds, asphaltic concrete, emulsified asphalt, coal tar paving materials, crushed slag and mixtures of asphalt, crushed stone or slag lime, sand, kerosene gasoline, naphtha, and oil]

(Commodities not reported in detail).....	126		\$29, 275, 369
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**PENCILS, LEAD (INCLUDING MECHANICAL)**

Aggregate.....	(1)	Gross	\$24, 476, 427
Pencils, total.....	2 67		22, 490, 592
Wood pencils.....	13	5, 853, 713	13, 604, 718
Mechanical pencils, total.....	2 56	165, 115	8, 885, 874
Gold.....	5	1, 638	258, 121
Silver.....	6	1, 605	164, 095
Plated.....	21	47, 177	1, 352, 055
Pyroxylin.....	37	50, 661	4, 282, 553
Other.....	13	64, 034	2, 829, 050
Pencil parts for sale as such, total.....	2 19		1, 985, 835
Leads for mechanical pencils.....	10		989, 064
Leads for other pencils.....	8		787, 840
Other parts.....	6		208, 931

**PENS, FOUNTAIN AND STYLOGRAPHIC; PEN POINTS, GOLD, STEEL, AND BRASS**

Aggregate.....	(1)	Gross	\$29, 235, 169
Pens, total.....	2 54		22, 668, 386
Fountain pens.....	52	90, 354	22, 383, 698
Stylographic pens.....	4	1, 945	284, 688
Pen points, total.....	2 23		3, 081, 324
Gold.....	18	2, 044, 624	1, 782, 916
Steel and brass.....	7	37, 439	1, 298, 408
Fountain-pen desk sets.....	6	2, 007, 185	2, 377, 343
Pen parts for sale as such.....	15	2, 734	1, 108, 116

See footnotes on p. 148.

INDUSTRY GROUP 16.—MISCELLANEOUS INDUSTRIES—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>PHONOGRAPHS</b>			
Aggregate .....	(1)	<i>Number</i>	\$86,597,444
Phonographs, including dictating machines .....	36	603,273	20,833,021
Combination phonographs and radios .....	6	152,107	22,193,702
Parts and accessories for sale as such, total .....	51		43,570,721
Records and blanks .....	22	105,085,042	34,128,735
Needles .....	8		1,971,774
Phonograph cabinets .....	4		19,736,353
Other parts and accessories .....	28		6,653,854

**PHOTOGRAPHIC APPARATUS AND MATERIALS**

[Principal products: Cameras, motion-picture machines, photostat machines, and blue-printing machines; flash-light apparatus and materials; tripods, plate holders, film rewinders and reels, and developing tanks; sensitized paper and cloth; dry plates and films; lanterns and stereopticon slides; and sheet gelatin]

(Commodities not reported in detail) .....	115	\$102,827,386
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**PIPES (TOBACCO)**

[Principal products: Tobacco pipes of all kinds made of wood, corncobs, clay, meerschaum, and composition, with mouthpieces of amber, rubber, bone, celluloid, horn, ivory]

(Commodities not reported in detail) .....	24	\$5,557,982
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**ROOFING, BUILT-UP AND ROLL; ASPHALT SHINGLES; ROOF COATINGS OTHER THAN PAINTS**

Aggregate .....	(1)	<i>Roofing squares</i>	\$101,064,861
Asphalt-roll roofing, total .....	63	28,437,076	36,109,653
Smooth-roll .....	61	18,718,704	20,032,452
Grit-roll .....	55	9,718,373	16,077,201
Asphalt shingles, total .....	53	11,676,636	42,291,343
Strip, patented, hexagon, etc. ....	52	9,692,774	33,707,384
Individual and single-thickness .....	51	1,983,862	8,583,959
Saturated felt, total .....	55	<i>Tons</i> 205,525	9,803,629
Asphalt-saturated felt .....	52	137,026	6,631,461
Tar-saturated felt .....	29	68,499	3,172,168
Roof coatings and cements, total .....	96		6,311,449
Asphalt roofing cement (solid) .....	19	35,161	842,420
Fibrous plaster roof cement .....	76	<i>Pounds</i> 52,753,395	2,336,111
Fibrous liquid roof coating .....	61	<i>Gallons</i> 4,941,563	2,115,578
Nonfibrous liquid roof coating .....	48	1,931,269	1,017,340
Other roofing materials and those not reported in detail .....	59		6,568,787

**SANDPAPER, EMERY PAPER, AND OTHER ABRASIVE PAPER AND CLOTH**

[Principal products: Paper and cloth coated with abrasives such as sand, flint, quartz, carborundum, and glass]

(Commodities not reported in detail) .....	11	\$17,218,590
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See footnotes on p. 148.

## INDUSTRY GROUP 16.—MISCELLANEOUS INDUSTRIES—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>SIGNS AND ADVERTISING NOVELTIES</b>			
Aggregate.....	(1)		\$113, 136, 814
Electric signs, total.....	2 376		34, 906, 933
Neon.....	92		11, 373, 028
Other electric signs.....	296		23, 533, 905
Other signs.....	866		39, 708, 075
Advertising novelties.....	280		38, 521, 806

**SODA-WATER APPARATUS**

[Principal products: Soda fountains, parts and accessories; siphons; carbonators; etc.]

(Commodities not reported in detail).....	54		\$24, 509, 783
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**SPORTING AND ATHLETIC GOODS, NOT INCLUDING FIREARMS OR AMMUNITION**

Aggregate.....	(1)		\$56, 285, 702
Golf goods, total.....	2 70		21, 067, 216
Balls.....	16	<i>Dozens</i> 2, 819, 400	7, 460, 200
Clubs.....	30	<i>Number</i> 3, 168, 380	9, 722, 610
Shafts.....	12	2, 220, 449	1, 573, 609
Caddy bags.....	24		
Number reported.....		430, 357	1, 709, 561
Number not reported.....			198, 569
Other golf goods.....	16		402, 667
Tennis goods.....	29		4, 650, 543
Baseball goods, total.....	2 29		6, 699, 087
Balls (including playground balls).....	11	<i>Dozens</i> 709, 552	3, 261, 411
Bats.....	7	<i>Number</i> 1, 819, 697	1, 050, 638
Masks.....	9	35, 690	110, 847
Mitts and gloves.....	12	932, 157	1, 820, 035
Other baseball goods.....	11		456, 156
Football, basket-ball, boxing, etc., goods, total.....	2 25		5, 766, 034
Football.....	15	530, 631	1, 410, 781
Basket balls and other inflated balls.....	15	<i>Dozens</i> 115, 205	1, 641, 224
Pads, helmets, and guards for football, basket ball, and soccer.....	15		1, 410, 184
Other football and basket-ball goods.....	4		669, 912
Striking bags.....	10	<i>Number</i> 70, 980	193, 203
Boxing gloves.....	13	<i>Sets of four</i> 60, 979	440, 730
Fishing tackle, total.....	2 97		9, 760, 370
Rods.....	22	<i>Number</i> 1, 495, 377	2, 448, 764
Reels.....	14	1, 137, 900	1, 815, 871
Other tackle (bait, trolling spoons, hooks, leaders, etc.).....	64		5, 120, 739
Rod mountings, and parts of fishing rods and reels.....	5		374, 936
Skates, total.....	2 16		4, 872, 593

See footnotes on p. 148.

INDUSTRY GROUP 16.—MISCELLANEOUS INDUSTRIES—Continued

PRODUCT	Number of establishments	Quantity	Value
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**SPORTING AND ATHLETIC GOODS, NOT INCLUDING FIREARMS OR AMMUNITION—Continued**

Skates, total—Continued.		<i>Pairs</i>	
Roller.....	10	2,614,944	\$2,925,034
Ice.....	10	684,904	1,782,172
Parts.....	4		165,387
Gymnasium equipment.....	23		1,073,082
Equipment for hunting and shooting, not including firearms and ammunition.....	22		1,129,756
Other sporting and athletic goods.....	40		1,267,021

**STATIONERY GOODS, NOT ELSEWHERE CLASSIFIED**

[The establishments in this industry are engaged primarily in the manufacture of papeteric and other stationers' specialties, inkstands, penholders, desk pads, calendars, copying devices, school supplies, etc.]

(Commodities not reported in detail).....	203		\$74,062,047
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**STEAM AND OTHER PACKING, PIPE AND BOILER COVERING, AND GASKETS**

[For "Steam and other packing, boiler covering, and gaskets" industry, see section for "Asbestos products," Industry Group 10]

**SURGICAL AND ORTHOPEDIC APPLIANCES, INCLUDING ARTIFICIAL LIMBS**

[Principal products: Trusses, elastic hosiery and belts, shoulder braces, arch supports, extension shoes, bandages, crutches, artificial limbs, surgical gauze, pneumatic splints, abdominal supports, anklets, kneecaps, suspensories, etc.]

(Commodities not reported in detail).....	363		\$71,607,119
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**THEATRICAL SCENERY AND STAGE EQUIPMENT**

[Principal products: Stage scenery; advertising curtains; stage hardware and equipment other than electrical; floats for street pageants]

(Commodities not reported in detail).....	55		\$5,507,827
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**TOBACCO**

Aggregate.....	(1)		\$1,246,241,839
Cigars and cigarettes, total.....	21,652		977,570,259
Cigars.....	1,605		309,327,032
Cigarettes.....	61		668,243,227
Chewing and smoking tobacco.....	242		232,607,120
Snuff.....	16		32,479,248
All other products <sup>12</sup> .....			13,585,182

**UMBRELLAS, PARASOLS, AND CANES**

[Principal products: Umbrellas, parasols, covers, handles other than gold or silver, and other umbrella and parasol parts, and canes]

(Commodities not reported in detail).....	141		\$17,994,376
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**WHIPS**

[Principal products: Drivers' and team whips, riding whips and crops, whip snaps, lashes, etc.]

(Commodities not reported in detail).....	8		\$224,219 <sup>13</sup>
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## INDUSTRY GROUP 16.—MISCELLANEOUS INDUSTRIES—Continued

PRODUCT	Number of establishments	Quantity	Value
<b>WINDOW SHADES AND FIXTURES</b>			
[Principal products: Window shades of cotton, linen, muslin, etc., window-shade fixtures, rollers, brass- rods, wooden poles, and brackets]			
(Commodities not reported in detail).....	482	.....	\$36,964,694 <sup>1</sup>

<sup>1</sup> The aggregate numbers of establishments—i. e., the sums of the several items for a given group of products—are not shown because such aggregates would greatly overstate the actual numbers of establishments reporting the groups of products in question. This condition arises because in practically all cases each establishment is engaged in the manufacture of more than one of the individual products or classes of products. The net number of establishments reporting the several groups of products are not shown by the census tabulations.

<sup>2</sup> Inasmuch as some establishments manufacture more than one kind of product, the totals in this column are smaller than the sums of the figures below them.

<sup>3</sup> Buttons, shoes:

	Gross	Value
Total shoe buttons.....	1,983,086	\$820,633
Pearl or shell, fresh-water.....	558,158	241,770
Pearl or shell, ocean.....	755,218	459,139
Other than pearl or shell.....	669,710	119,724

<sup>4</sup> Covered buttons made for sale as such to the trade, not buttons covered to individual order.

<sup>5</sup> Includes "bone" and collar and cuff.

<sup>6</sup> Includes value of other products made in industry, but does not include value of hand stamps and stencils and brands made as secondary products in other industries. Actual value of hand stamps and stencils and brands manufactured in all industries reporting them as either major or minor products, \$16,768,432.

<sup>7</sup> The figures include data as follows: Women's harvest hats, 164,734 dozens, valued at \$633,969; children's harvest hats, 199,626 dozens, valued at \$543,418, men's harvest hats, 1,033,043 dozens valued at \$3,302,093.

<sup>8</sup> Includes value of other products made in industry, but does not include value of models and patterns, not including paper patterns, made as secondary products in other industries. Actual value of models and patterns, not including paper patterns, manufactured in all industries reporting them as either major or minor products, \$39,010,758.

<sup>9</sup> Includes undistributed pianos.

<sup>10</sup> Phonograph cabinets are also made to some extent by establishments classified in the furniture industry. The figures here given relate only to cabinets made for sale as such by establishments engaged primarily in the manufacture of phonographs and phonograph cabinets.

<sup>11</sup> Includes value of other products made in industry, but does not include value of sand paper, emery paper, and other abrasive paper and cloth made as secondary products in other industries. Actual value of sand paper, emery paper, and other abrasive paper and cloth manufactured in all industries reporting them as either major or minor products, \$20,312,441.

<sup>12</sup> Includes stems, dust, and items left over from the manufacture of the commodities of the tobacco industry. Value included in industry total.

<sup>13</sup> Includes value of other products made in industry, but does not include value of whips made as secondary products in other industries. Actual value of whips manufactured in all industries reporting them as either major or minor products, \$326,654.