# APPENDIX A

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# CONSTRUCTION OF THE INDEX OF PRODUCTION OF MANUFACTURES

In order to provide a composite measure of the physical quantity of manufactures produced, statistics representing the production of individual products as reported by the census have been summarized into a set of index numbers covering census years. Such index numbers for the years 1899, 1904, 1909, and 1914 were constructed in 1920 by Prof. Warren M. Persons, with the assistance of Miss Eunice S. Coyle, and published in the Review of Economic Statistics for November, 1920. Description of the construction of this index, which has been called the Harvard census index, is given in Chapter II of this monograph and need not be repeated here.

Since 1914 census investigations have been made for 1919, 1921, 1923, and 1925. For the purposes of this monograph and to provide the information for others who may wish to use it, a similar index has been computed for census years from 1914 to date and has been chained to the earlier index, thus providing a homogeneous measure of the physical volume of production by census years from 1899 to 1925. Index numbers for all industries combined, for the major industrial groups, and for certain selected industries, by census years, 1899 to 1923, are given in Table 38, Appendix B.

With some noteworthy variations the same methods of construction utilized in constructing the Harvard census index were adopted in making the new index. The index is a weighted geometric mean of relatives; the weights are based upon figures for value added by manufacture; and products and industries included are classified according to the grouping followed in the censuses of manufactures prior to that of 1923.<sup>1</sup>

The year 1919, however, was used as the base, whereas 1909 was the base in the earlier index. Another very important variation is to be found in the method of computing weights. Weights for the Harvard index were derived from values added by manufacture for 1909, the base year, but in the later index the weights applied to the relatives for any given year were averages of those for 1919, the base year, and those for the given year.<sup>2</sup>

Classification was changed in 1923. See Ch. IV of monograph.

<sup>&</sup>lt;sup>2</sup> The Harvard census index was computed for 1919 and revised for earlier years according to this method by Professor Day in 1922, but no explanation of the revision was published.

Other changes in the new index were confined largely to the data used. Several new production series have been given in recent censuses, but, on the other hand, statistics of raw materials consumed, which were used extensively with satisfactory results in the Harvard index, have not been reported since 1919. The index therefore is based entirely upon products manufactured. Although the absence of information regarding materials consumed is to be regretted, it is not believed to have materially affected the final results, as the Harvard indexes obtained by the two sets of data were closely similar.

Fuller treatment of data and methods, with explanations of the variations from those employed in the earlier indexes, is given in later sections. A general statement of methods used in the Harvard index is given in Chapter II of the monograph. Briefly, it may be said that in computing the new index physical quantity figures for each product included for the census years 1914, 1921, and 1923 were reduced to relatives in terms of the 1919 figures as 100; these relatives for all products in a single industry were weighted in accordance with their proportionate importance to each other and then averaged: thus a set of industry indexes were secured. The industry indexes were in turn weighted and averaged to give group indexes, which were similarly combined into a composite index for all manufactures. The actual physical quantity figures used, their individual relatives. the weights, and the industry and group indexes by census years from 1914 to 1925 are all shown in Table 26, given at the end of this chapter. The results have been discussed in the various chapters of the monograph.

SELECTION OF DATA

In constructing the index the data utilized were, with some important additions and a few subtractions, those employed in the Harvard census index. The nature of this statistical material is indicated in Chapter II of the monograph by a quotation from the Review of Economic Statistics. The most important variation from the Harvard index, as was stated above, is that in the new index practically no statistics of materials consumed have been used, because such data have not been requested in the census investigations since 1919.<sup>3</sup>

Statistics of products, on the other hand, have been expanded somewhat by the census, and a number of series not available for earlier dates are included in the new index. In some cases these additions are merely new series, perhaps of little or no importance until recently, added to an industry already represented in the index. Examples of these are found in the cases of some of the chemicals and acids, of upper leather, and of face brick. Generally, however,

<sup>&</sup>lt;sup>3</sup> Specifically statistics of materials consumed were used in flour milling, wood pulp, coke, gas, and petroleum refining. In a number of instances the production of semifinished and finished products in the same industry were given—e. g., pig iron and steel ingots, crude petroleum and refinery products, leather and shoes, and wood pulp and paper.

the additions were of entire industries or groups of industries—notably shipbuilding, rubber products, locomotives, cement, and several others of less importance. The inclusion of shipbuilding is a distinctive feature of the new index. It was felt to be necessary in order to provide an accurate basis of comparison between 1919 and other years, because of the unusual magnitude of that industry in 1919. In other years it was not of great importance.

Data for some previously unrepresented industries were derived by still another method which involved the utilization of extracensal information. Estimates of paper consumption to represent the printing and publishing industries and of nonferrous metals consumption for industries using these materials were arrived at by the use of production, import, and export statistics, and were included in the index. For reasons given below the liquors and beverages industries have been omitted for years since 1919.4

Another difference between earlier census figures and those of recent years, which is of such small importance as to be hardly worthy of mention, is that the investigations of 1921 and 1923 did not include establishments with a total production for the year of less than \$5,000 in value, whereas in previous years \$500 had been the minimum. That the effect of this change is insignificant is seen by the fact that for 1919 the total value of products for all establishments was 62,193 millions of dollars, whereas for those with products of \$5,000 and over the total was 62,042 millions of dollars, a difference of only two-tenths of 1 per cent.

Data included in the index, however, are subject to certain important limitations. In the first place only a portion of all products of manufacture are measurable and therefore available for use, and, secondly, changes in degree of fabrication are not indicated by mere changes in quantity. Improvements in quality represent larger production as much as do increases in quantity, but there is no satisfactory way of measuring such changes.<sup>5</sup>

Data for some of the industries and individual series are peculiar in respect to source, method of compilation, units, weighting, or some other such characteristic. These peculiarities, where worthy of notice, are given in the section at the end of the chapter after the discussion of methods. Note is made especially of cases where the data are not exactly the same as those used in the Harvard census index. Certain more detailed information regarding some of the series may be found in the description of that index in The Review of Economic Statistics.<sup>6</sup>

6 Preliminary Vol. II, No. 11, November, 1920, pp. 311-315.

<sup>!</sup> See p. 111.

<sup>&</sup>lt;sup>5</sup> In the index for the automobile industry some allowance is made for such changes in the quality of automobiles produced by providing for the increase in proportion of closed cars produced as compared with open cars. This index indicates an increase of 132 per cent in production of automobiles from 1919 to 1923, as compared with 106 per cent shown by comparing the simple totals of number of cars produced.

Representativeness of the index.—A rough measure of the comprehensiveness of the index may be obtained by comparing the value of those products included in the index with the total value of all products manufactured. Because of the large amount of duplication in the figures of total value reported by the census, however, a comparison of the value added by manufacture for those industries represented in the index with total value added for all industries is probably a more accurate measure of representativeness.

These comparisons and other measures of the comprehensiveness of the index are given in Table 21. In the first two columns the number of industries and series included in the index from each group is shown. It will be noted that indexes are available for 53 separate industries, comprising relatives for 137 individual products. It should be remembered, however, that for most of these products the series are totals of a large number of subdivisions. All kinds of cotton goods, for example, are shown by a single series, and the tonnage of all the various products of steel rolling mills has been added together.

TABLE 21.—MEASURES OF REPRESENTATIVENESS OF DATA USED IN INDEX

and a contract of the contract	Number	Number of prod-	ADEQUA DAT	
A SA CALL SALE OF CROUP AND INDUSTRY OF THE SALE SALE OF THE CONTROL OF THE CONTR	of in- dustries	ucts series	For in- dustries <sup>1</sup>	For groups1
All groups covered	53	137		3 87
All industries covered				1 48
I.—Food and kindred products  Butter, cheese, and condensed and evaporated milk	10	25 3	88	48
Slaughtering and meat packing Flour-mill and grain-mill products Sugar, beet Sugar refining, cane	l	7 4 2	87 98 95 99	
Conning ata fusite and pagetables	1. 1	4 1 1	99 99 79 26	
Canning, etc., fish and vysters. Canning, etc., fish and vysters. Corn sirup, corn oil, and starch. Rice cleaning and polishing. Ice, manufactured.		1 1	95 99	
II.—Textiles and their products	8.	20	90	5 <b>2</b>
Knit goods Silk manufactures. Woolen and worsted goods. Carpets and rugs, wool, other than rag. Oordage and twine, etc.		3 4	81 80 96	
Carpets and rigs, wool, other than rag Cordage and twine, etc Hats, fur-felt Ollcloth and floor coverings		$\begin{bmatrix} 1\\2\\1 \end{bmatrix}$	831	
			98	
III.—Iron and steel and their products		1	98 74	40
IV.—Lumber and its remanufactures Lumber and timber products and planing-mill products	1	2 2	79	48
V.—Leather and its finished products Leather, tanned, curried, and finished Boots and shoes	2	5 1	5 100	80
D0068 8110 811088			• 100 l	

See footnotes at bottom of table on opposite page.

TABLE 21.-MEASURES OF REPRESENTATIVENESS OF DATA USED IN INDEX-Continued production of acceptant

GROUP AND INDUSTRY	Number of in-	Number of prod-	ADEQUA DAT	
GROUP AND INDUSTRY	dustries	ucts series	For In- dustries	For groups
VI.—Paper and printing Paper and wood pulp Printing and publishing Paper boxes		11 8 2 1	8	8 15
VII.—Liquors and beverages	. ⊃0	0	0	. 0
VIII.—Chemicals and allied products.  Chemicals and acids Coke Gas Fertilizers Explosives Paint and varnish Petroloum refining Oil and cake, cottonseed Turpentine and rosin. Salt Soap IX.—Stone, clay, and glass products Brick, tile, etc Lime Cement Glass X.—Metals, nonferrous Brass, bronze, etc Smelting and refining Other industries.	4.	1928111572211 781	91 65 100 76 65 	64
XI.—Tobacco products. Chewing, smoking, etc. Clgars. Cigarettes. XII.—Vehicles for land transportation. Motor vehicles. Carriages, wagons, etc. Railway equipment 6 Cars, etc. Locomotives. XIII.—Railroad repair shops 9	4	\$111 11 58	δ 100 δ 100 δ 100 δ 100	\$ 160 97
XII,—Rairroad repair snots*  XIV.—M six and boat building Rubber products— Rubber boots and shoes Rubber tires and inner tubes		9 2 4 3	19 100 87	18

a Percentage of value added by manufacture for the groups represented in the index to that of all groups

Percentage that (1) value of products covered by index for each industry in 1923 bears to (2) total value reported for all products of that industry in 1923.

Percentage that (1) value added by manufacture in 1923 for industries covered in each group bears to (2) total value added by manufacture reported for all industries in that group. The figures from which these percentages are computed are given in part in Table 23.

Percentage of value added by manufacture for the groups reported in the index to that dell groups.

<sup>\*</sup> Percentage of value added by manufacture for the groups represented in the index to that of all groups reported by the census.

\* Percentage of (1) value added by manufacture for all industries directly represented in the index to (2) that of all industries reported by the census. Had certain paper and printing and nonferrous metals industries, which are indirectly represented in the index by consumption estimates, been included in (1) this ratio would have been 55.

\* Exact data are not available. The estimate given has been based on the best information at hand.

\* These percentages cover only those industries directly represented in the index. The inclusion of the industries indirectly represented by consumption figures would give the following: Paper and printing, 91; and metals, nonferrous, 87.

\* No adequate data for use as basis of estimates are available.

\* Indirectly some 22 industries in Group X are represented.

\* New products manufactured by railroad repair shops are included under railway equipment.

The number of the series, however, gives little indication of the extent to which the figures actually cover the industries, and in the last two columns of the table figures are given to show (1) the percentage of the value of the products represented from each industry included in the index to the total value of all products of that industry and (2) the percentage of value added for the industries included from each group to the value added for that group as a whole. Most of the individual industries included are fairly well represented by their products, the value percentage varying from 19 to 100 percent, with nearly one-half above 90 per cent.

Direct representation of some of the groups, however, is not so large. The important iron and steel and allied industries, for example, are covered by but two industries, whose value added equals only about 40 per cent of the total for the group, and in nonferrous metals the direct representation is smaller, but in both of these groups the products used are of such a basic nature that they probably reflect rather closely conditions in the more advanced industries using these products as raw materials. The liquors and beverages group is not represented at all after 1919. The most completely covered groups are tobacco products and vehicles for land transportation.

Comparisons of totals of these groups, industries, and products included in the index to the grand total for all manufactures give the following results: Value added by manufacture for all groups directly and indirectly represented is 87 per cent of the total and the value added of only those industries directly represented equals nearly 50 per cent of the total. A comparison of the total value of products to total value of all products included can not be accurately determined because of (1) the lack of value figures in a number of cases and (2) the large amount of duplication in the combined value figures.

The conclusion drawn from such a comparison for the Harvard census index is applicable here. It is "Analysis of the data, therefore, leads to the conclusion, first, that our sample of manufacture is well distributed and, second, that the sample is large enough to constitute a reliable basis for the computation of indexes of physical production for manufacture."

Another test of the representativeness of the index is given in Table 22, which shows for intercensal periods the percentage of change in the number of wage earners and in primary horsepower for all industries, for the industries directly represented in the index, and for those not so represented.

Table 22.—Comparison of Growth of Industries Included in Index with Growth of Other Industries

	PER	CENT OF	INCREASE	OR DECR	EASE (-	)
ga ga kan da ga da na kata kata kata kata kata kata kata	24-year		Inter	censal per	iod	
	period,	1919—	191 <del>4</del>	1909-	1904-	1899-
	1899–1923	1923	1919	1914	1909	1904
NUMBER OF WAGE EARNERS  All industries Industries included in index Industries not included in index  PRIMARY HORSEFOWER	88. 2	-2.5	29. 3	6. 4	21. 0	16. 0
	82. 4	-3.5	33. 0	5. 2	20. 7	11. 4
	95. 2	-1.8	25. 5	7. 6	21. 3	21. 4
All industries	229. 6	12. 8	31. 5	20. 1	38. 5	83. 6
	218. 3	12. 7	33. 5	15. 6	40. 6	30. 1
	251. 2	13. 1	26. 1	34. 2	32. 2	38. 8

From this evidence it would seem that changes from one census year to another in the industries included in the index are in most cases typical of those for all industries, although in a few cases there are fairly wide discrepancies. These data show that for the period as a whole the industries included in the index have grown by a slightly smaller amount than those excluded, indicating that over a long period of time the index probably somewhat understates the growth of all manufactures. The industries included in the index employed over 50 per cent of the total number of wage earners employed in all industries and contributed nearly 75 per cent of the total primary horsepower.

#### METHODS OF CONSTRUCTION

Processes involved in the construction of this index previously briefly described will now be explained in greater detail. The figures for 1914, 1921, and 1923 in each set of physical quantity data were reduced to percentages of the corresponding figure for 1919, and a weighted geometric average of these percentages or relatives for any given year gave the composite index number for that year. The weights represented the importance of their respective products relative to all other products included in the index. They were derived from figures showing value added by manufacture in the base year (1919) and in the particular year for which they were used. In other words, there was a different set of weights for each year covered by the index, which were averages of two other sets, one applying to the common base year and the other to the given year.

The following formula expresses in mathematical symbols the methods employed in compiling the index:

$${}_{1}I_{0} = \sqrt{\frac{\left(\frac{p_{0}q_{0}+p_{1}q_{1}}{2}\right)}{\left(\frac{q_{1}}{q_{0}}\right)^{\frac{p_{0}q_{0}+p_{1}q_{1}}{2}}} \times \left(\frac{q'_{1}}{q'_{0}}\right)^{\frac{p'_{0}q'_{0}+p'_{1}q'_{1}}{2}} \times \left(\frac{q''_{1}}{q''_{0}}\right)^{\frac{p''_{0}q'_{0}+p'_{1}q'_{1}}{2}}} \cdot \text{etc.,}}$$

wherein  $q_1$  is the quantity of a given product produced in any given year,  $q_0$  the quantity of the same product produced in the base year;  $q'_1$  and  $q'_0$ ,  $q''_1$  and  $q''_0$ , quantities of other products produced in corresponding years;  $\frac{q_1}{q_0}$  and  $\frac{q'_1}{q'_0}$ , etc., are the relatives;  $p_0$   $q_0$  and  $p_1$   $q_1$  represent value added by manufacture;  $\frac{p_0q_0+p_1q_1}{2}$  represents the

represent value added by manufacture;  $\frac{p_0q_0+p_1q_1}{2}$  represents the average value added in the given year and base year, or the weights assigned; and the radical,  $\Sigma \frac{(p_0q_0+p_1q_1)}{2}$ , is the sum of all the weights.

Type of average.—Several considerations governed the choice of the geometric mean as the type of average to be utilized in constructing this index. In the first place, it was desirable that the methods used be similar to those employed in computing the Harvard census index, in which the geometric type of average was adopted. Another reason is that the index was devised for use in a study of the relative growth of manufacture and the geometric average is especially suited for averaging percentages and securing composite measures of relative changes. The so-called aggregative type of index, wherein all figures are reduced to values and the aggregate values are compared to secure the index numbers, more closely measures absolute changes in volume. Another objection to the aggregative type is the difficulty of obtaining, in the case of manufactures, satisfactory weight factors which are needed to reduce the quantity figures to values. This difficulty is due to the fact that these factors not only must convert quantities into values but also at the same time must weight the products in accordance with the relative importance of the various industries which they represent.7

Advantages of the geometric mean over the arithmetic mean are technical in nature but are important in this index. In the first place, with the geometric type the index can be readily shifted to a new base without recalculation of the averages. This characteristic was advantageous in linking the new index with the Harvard census index. The geometric mean, in the second place, is not ordinarily as much affected by extremely large items as is the arithmetic average, and in computing this index there were some relatives of sufficient magnitude to make this feature important.

Base period.—The year 1919 was chosen as the base in computing this index primarily because it was the middle year, in point of time, of the period covered by the index, and therefore was more directly comparable with all the other years than any other single year would be. It is a link between the old and the new—between the pre-war industrial system and the somewhat different order now

 $<sup>^7</sup>$  Experimental computations of aggregative indexes gave practically the same results as the geometric averages adopted.

prevailing. Furthermore, it was central in point of magnitude, the index for 1919 (100) being practically halfway between that for 1914 (78) and that for 1923 (122). This was likewise true for a number of the individual industries, and therefore the relatives comprising the index tend to group themselves around the average more closely than they would if another year had been selected as a base. Another advantage of 1919 as a base over some earlier year is that it permits the use of a number of figures which were not available until 1919.

Weights.—In averaging the relatives for individual products to secure a composite measure of changes in the volume of production of all manufactures, it was necessary to weight each relative in accordance with the proportionate importance of the product represented. Because the output of many products manufactured can not be measured and therefore these products can not be included in the index, the weight for each major industrial group was divided among the industries of that group included in the index, and the industry weights were in turn divided among the products included. Thus steel production is weighted not only in accordance with the importance of the industry designated as "steel works and rolling mills" but also for all industries in the iron and steel group, except blast furnaces which are represented by pig iron.

The weights for industries and for major industrial groups were derived from figures measuring value added by the process of manufacture, and the weights for individual products within each industry were derived from data showing total value produced, data for value added not being available for the individual products. The value-added figures provide the most satisfactory basis of weighting available because they represent the actual contribution of the manufacturing process to the production of a commodity—the application of machinery and labor. The weights were computed in terms of percentages of the whole and multiplied by 10, the total of weights for all products equaling 1,000. The percentages were first computed for the major groups, the group percentages were divided proportionately among their respective industries, and the industry totals in turn were distributed among their products.

In computing weights for groups, industries, and the individual-products series, some allowances were made for their adequacy, comprehensiveness, and representativeness. Iron and steel production, for example, because of the basic nature of these products, was assigned weight for a large number of industries in which iron and steel are used as raw materials. Full weight, as indicated by the value added by manufacture, on the other hand, was not assigned to a few products which could not be considered as repre-

<sup>8</sup> See Ch. I, p. 20.

sentative of production in other lines. Outstanding examples of these are automobiles and shipbuilding, for which one-half of the value added by manufacture was assigned to iron and steel. The principal reason for this, in addition to that mentioned above that the products being results of the final stages of the production process do not represent output of other products in more advanced stages of manufacture, is that the materials used in their construction-chiefly iron and steel-are already represented once in the index, and their inclusion again gives them undue importance as contrasted with the amount of those same materials going into other manufactures not included, notably machinery. The use of steel in machinery output probably declined between 1919 and 1923, whereas that used in automobiles increased; the inclusion of one without the other presents a distorted picture. The reduction of the weight given to automobiles and the corresponding increase of that assigned to steel serves to remedy this defect. Another reason for reducing the weight for shipbuilding and automobile manufacturing is the unsatisfactory character of the physical-quantity figures, which do not adequately represent production in these industries because of important changes in nature of product. Adjustments of weights in individual instances are discussed in the subsequent section dealing with the individual series included in the index.

Percentages of the importance of the various groups, industries, and products were computed from the value-added data for each year covered by the index—1914, 1919, 1921, and 1923—and those for 1914, 1921, and 1923 were averaged separately with the corresponding percentages for 1919 in order to obtain a set of weights for use in computing the index for each year. That is, the 1914 weights are averages of the 1914 and 1919 percentages, those for 1921 are averages of the 1921 and 1919 percentages, and so on. Table 23 gives the computation of weights for the major industrial groups and for individual industries. In computing these percentages, figures were rounded off as much as possible in order to simplify the labor of computation. Percentages were used instead of actual value figures in order to remove the influence of price changes and of growth, thereby preventing one year from dominating the weights.

The practice of averaging the computed weights for a given year with those for 1919 in order to obtain the weights actually used for that year has the advantage of providing in the index for changes which occur in the relative importance of different industries. If 1919 weights alone had been used, for example, the shipbuilding industry would have exerted far too great an influence on the index—its relative importance during the period changed from 0.6 per cent of the total in 1914 to 4.2 per cent in 1919, and back to 0.6 per cent in 1923. The industrial structure is likely to change materially in a

decade and in two decades changes are too great to be ignored. The automobile industry was of only moderate importance in 1914; in 1923 it was the leading industry in total value of output. It is necessary that the weighting system provide for such changes.

Another reason for using these combined weights is a technical one relating to the characteristics of the type of average used. A geometric average of relatives weighted on the basis of data for a single year is likely to have a bias—i. e., "a foreseeable tendency to err in one direction"—and such a bias is particularly pronounced if the relatives cover a wide range. Since with base-year weights the bias is in one direction and with given-year weights it is in the other, a combination of these two sets of weights will give an average free from bias. Therefore because of the inherent nature of the average, because of the wide dispersion of relatives comprising the index, and because of the need for making allowances for fundamental changes in industrial arrangements, the weights used in this index were based upon two years rather than one.

<sup>•</sup> For a discussion of bias, as well as of other characteristics of index-number formulæ, see Irving Fisher,
"The Making of Index Numbers"; U.S. Bureau of Labor Statistics, Bull. 284, "Index Numbers of Whole'
sale Prices in the United States and Foreign Countries," by Wesley C. Mitchell; or some recently published textbook on statistical methods.

TABLE 23.—COMPUTATION OF WEIGHTS FOR INDUSTRIES AND GROUPS, BY CENSUS YEARS: 1914 TO 1923

[Value figures expressed in thousands]

		1914	***************************************	1919	6		1021	\$ 1 <sup>3</sup> 1		1923	
INDUSTRY	Value added by manufac- ture	Per cent of total	Weight 1	Value added by manufac- ture	Per cent of total	Value added by manufac- ture	Per cent of total	Weight 1	Value added by manufac- ture	Per cent of total	Weight 1
Total of all groups included in index	\$8, 598, 471	1 103, 60	3 1, 020	\$21, 755, 482	100.00	\$15, 766, 308	100.00	1,000	\$22, 541, 026	100.00	1,000
	1, 030, 829	12, 40	117	2, 421, 471	11.10	2,018,125	12,80	118	2, 400, 769	10.60	168
Butter, cheese, and condensed and evaporated milk Slaughtering and meat packing	210,302	1.12	⊒\$	139, 759	1.18	129,296	1.75	17	3	.i.	13
Flour-mill and grain-mill products	125, 410	28.9	181	253, 253	. e.	183,	383	88	162, 606	1.00	88
Sugar refining, cane Canning and preserving, fruits and vegetables, etc.	45,33 88 88	1.57	120	136, 843 136, 614	2.82.2	17, 241 40, 001 81, 524	83.42.E	ကကင္	47, 494	4. ± 5	
Canning and preserving, fish, oysters, etc	12, 657 12, 407 9, 493	ម្ខន់ខ្ល	co et e	26, 266 55, 927	8.4:	29, 180 29, 180	988	เลอ	19, 536 (2, 079	38.83	30,70
loe, manufactured	42,631	8	100	94, 127	⊒8.	107,716	1.46	-8	117, 998	1.08	16
Textiles and their products: Group total Total in index	1, 432, 496 683, 790	17.30	175	3,834,024	17.60		20.00	\$	4,070,582	18.10	
Cotton goods Kint goods	257, 778	6.51 2.84	22	286, 044	7.61	273, 616	3.40	37. 30.	809, 523 364, 157		7.88
Woolen and worsted goods	132, 987	3.78	8.2	300,001	2, 2, 6, 50		8.4 8.4	88	282, 284	9.5	1818
Cordage and twine	26,848	84	₩ 41	56, 136	<del>4</del> 8			64	34, 641		F- 60
Hats, Iur-teit. Olicloth and floor coverings.	7,822	ឌន	4160	42, 587 26, 601	ह्रद्ध		8.4	ကြက	8,83 8,83 8,83	¥.3	4.00
fron and steel and their products: Group total 4 Total in index		20.40	734	5,717,215	26.30		30,00	231	6, 639, 931	24.60	3
Blast furnaces. Steel works and rolling mills.	53, 074 501, 956	18.45	24 210	1, 634, 372	23.52	58, 721 58, 721 777, 993	1.40	21 210	1, 665, 845	22.20	24.08
Lumber and its remanufactures—Group total Lumber and timber products	837, 361 433, 358	10, 10	8	1, 710, 074	7.90	1, 240, 747	7.96	<b>8</b>	1, 938, 264	8.60	80

Leather and its finished products:		56	4		4		8	ş		5	8
Trates in index		7, 00	ř		2		3	ì			3
Leather, turned, curried, and finished Boots and shoes	82,957 191,403	3.00	23.12	282, 071	1.69 2.50	105, 640 389, 044	3.03	25.55	167, 148 472, 621	 2.59	១ន
Paper and printing: Group total		10.60	8		2.89		11.50	98		9.90	06
Paper and wood pulp. Printing and publishing. Paper boxes.	221, 232 118, 966 643, 686 38, 443	8.58 12.62	882	1, 320, 577 1, 128, 279 105, 284	1.62 5.65 53	1, 352, 444 1, 352, 619 85, 980	9.40 60	882	1, 574, 562 1, 574, 562 120, 129	1.63 7.68 .59	£65 20
Chemicals and allied products:	712, 289	8,60	98		8.60		8.8	8		8.	<b>8</b> 8
Chemicals and acids. Coke.	30, 137	1.24	16		1. 2.3.		1. 4.	87.0		88.5	ည္ထင္
Crass Pertilizers Fertilizers	143, 459 45, 241 15, 206	4 46.8	7200		15.8		7.50	4.00		388	3 <del>4</del> €
Patint and varuish. Petroleum refining.	71,086	1.28	82		4 E. 21		883	. oo Ki		823	∞g
Ou and cake, cottonseed. Turpentine and rosin. Salt. Sosp.	31, 151 15, 454 7, 797 39, 075	ន្ទដងន	o21 H⊅	29, 121 21, 486 78, 221	2857	17, 102 16, 751 89, 839	44554	#63 <b>⊢</b> €	26, 194 20, 360 102, 857	44218	유어무요
Stone, clay, and glass products: Group total	375, 427	<b>.</b> 52	\$		3, 10		3.80	98		4.30	*
Brick and tile, terra-cotts, and fire-clay products. Lime Coment.		181	152	140, 935 19, 674 95, 755	1.03	126, 053 16, 801 101, 267 127, 435	1.17	10 10 12	230, 098 27, 544 163, 332 196, 183	1.19	ដែ-ខដ
Metals and metal products, other than iron and steel: Group total Total in index	393, 690 301, 767	4.70	#		3.90		3.70	- <b>8</b>		4.20	97
Brass, bronze, and other nonferrous alloys, and manufactures of these alloys and of copper Smelting and refuning Other industries.		1.64 34.45	222		1.11 1.82		11. 28.28	58.8 58.8		1.15 .95 2.10	29.8
Computed as described in text from averages of corrections. Induces in Deverages are included only in 1914, and Includes manufactured see which was not included.	esponding 1 nd in order in the nubil	percentages to make the shed censin	for 1919 to figures s figures	and for given comparable or this groun	year. with those for	,	1919 the percentages	s and weig	and weights for 1914 have been	have been	made to

<sup>1</sup> Includes manufactured ice, which was not included in the published census figures for this group prior to 1923.
•qual more than 100 and 1,000, respectively.
•Includes data for the entire iron and steel group, as classified prior to 1923, less locomotives and plus one-half of the value added for vehicles and shipbuilding.

Table 23.—Computation of Weights for Industries and Groups, by Census Years: 1914 to 1923—Continued

[Value figures expressed in thousands]

		1914		1919			1261			1923	
INDUSTRY	Value added by manufac- fure	Per cent of total	Weight 1	Value added by manufac- ture	Per cent of total	Value added by manufac- ture	Per cent of total	Weight 1	Value added by manufac- ture	Per cent of total	Weight 1
Tobacco manufactures: Group total s. Total in Index. Tybeno, obsering and smoting and anner	8203, 000 282, 905	2.40	2		1,50	\$184, 600 459, 801	1.20	13	\$219, 311 628, 327	1.00	23
	135, 508	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	0010	28,58	825	25,264 177,937 176,600	धक्क	ώro ro	76, 592 182, 422 269, 313	<u> </u>	01 44 CD
Vehicles for land transportation: Group total *	223, 772	2, 70	15		95 66		3, 10	#	905, 150	4.8	83
Aktor vehidys. Okrilages, wagos, and repairs. Rallway equipment.		1.73	geo	1, 139, 395	2.75 . 10	758, 377 15, 583	2.47 .05	79 19	1, 464, 871	25.20	E 14
Cars	66, 721 19, 828	<b>8</b> 23		188, 521 83, 894	<del>경</del> 원	128, 598 46, 611	2 <b>4</b> .0		190, 691	8.2	
Ship and boat building: Group total a Total in index		8	22		2, 16		2.	71		8	- 23
Hubber products and sinces. Rubber tires and inner tubes.	137, 959 29, 866 108, 093	1.1	20.25	<b>543, 873</b> 66, 570 477, 303	2. 3 19 19	327, 024 61, 900 265, 124	2, 10 1, 73 1, 71	<b>%</b> 48	86,471 370,884	1.37	£ 481
biquors and beverages—Group total 1, 6	310, 000	3.60	8	100, 000	7.40						1

Computed as described in text from averages of corresponding percentages for 1919 and for given year.
 Liquors and beverages are included only in 1914, and in order to make the figures comparable with those for 1919 the percentages and weights for 1914 have been made to equal more than 100 and 1,000, respectively.
 Amount of internal revenue ax deducted.
 Amount of internal revenue ax deducted.
 One-half of value added for vehicles and shipbuilding assigned to iron and steel.
 Not included in the total except for comparison with 1914, in which case the 1919 total equals 100.40.

#### DESCRIPTION OF INDIVIDUAL SERIES

In most cases the designation of the products included in the index, as given in Table 26, is sufficient to explain their nature without further detailed description, and in general this section is limited to a discussion of small details and of special cases. Further information regarding the individual series may be obtained from the census reports and also from the description of the original Harvard census index in "The Review of Economic Statistics," Preliminary Vol. II, No. 11, November, 1920.

#### GROUP I .- FOOD AND KINDRED PRODUCTS

The weight for this group is based upon value added by manufacture according to the old classification and does not include nonalcoholic beverages, which under the 1923 classification were assigned to this group. It includes, on the other hand, manufactured ice, not assigned to this group under the old classification.

Butter, cheese, and condensed and evaporated milk.—The figures used cover only factory production made by establishments engaged primarily in their manufacture. A small amount made by factories classified in other industries is excluded, as well as that produced at home or in small establishments.

Slaughtering and meat packing.—For this industry the figures for materials—dressed weight of animals slaughtered—were published in 1921 and 1923, as in prior censuses, and were included in the index. Meat, fresh and cured, includes beef, veal, mutton and lamb, pork, edible offal, and other fresh meat, pickled and other cured beef, smoked pork, and pork, not smoked, all of which are reported separately by the census. Lard and lard compounds, reported separately, are totaled to make this series. The figures for cattle hides in 1921 and 1923 include the weight of hides received as payment for custom slaughtering. Sheep and lamb skins are not included because their weight in pounds was not reported, and the series is not comparable throughout the period covered. Relatively important products of this industry not included in the index are canned meats, sausage, scrapple, etc., and by-products such as fertilizers and glue. Weights for the individual series are based upon value of product.

Flour-mill and grain-mill products.—Canvass of this industry in 1914, 1921, and 1923 covered only merchant mills and, in order to preserve comparability, data for custom mills in 1919 have been excluded from the figures used. Some custom business of merchant mills, however, is included in all years. The figures for 1921 and 1923 are probably not directly comparable with those for earlier years because of the exclusion of establishments with value of product of less than \$5,000. For the same reason, and because of the exclusion of custom mills, the census figures for wheat-flour production are somewhat smaller than those reported from trade sources. The figures for grain milled, which are totals for all types of grain, make one of the few series of materials consumed given by the census since 1919.

The sugar industries.—For beet sugar, figures are available for materials—tons of beets treated—as well as for products—granulated and raw sugar produced. Output of refined cane sugar has been reported by the census only since 1914. In the Harvard index, for the lack of better data, quantities were estimated from statistics of production and imports of raw sugar.

Canning and preserving.—The data for these industries include products of establishments engaged primarily in other industries. The figures for fruits, vegetables, fish, and oysters are totals of several varieties expressed in terms

of standard cases, which contain 24 cans. Cases of canned soup contain 48 cans. The figures for dried fruits in 1923 are not strictly comparable with those for earlier years because of some enlargement in the scope of the canvass for prunes and apricots. Data for canned soups and for fish and oysters were not included in the earlier Harvard index.

Corn sirup and starch, Rice cleaning and polishing, and Ice manufacturing were added to the new index by the use, respectively, of figures for the production of starch, of clean rice, and of manufactured ice. The industries are not very important but are worthy of inclusion under the standard adopted (value of product of over \$10,000,000) and in the case of the ice industry because of its increasing importance.

Important industries in this group for which quantitative statistics are not available over a period of years are bread and bakery products (collection of data was commenced in 1923), confectionery, ice cream (figures reported in 1923), and food preparations, not elsewhere classified. This last industry includes chiefly "breakfast-foods" or "cereal" preparations, and also lard compounds, macaroni, peanut butter, malted milk, and others. These industries are of such a nature that they are not adequately represented by the other industries in the group, and the lack of satisfactory quantity statistics for them is unfortunate.

# GROUP II.—TEXTILES AND THEIR PRODUCTS

Weight was assigned to this group on the basis of value added by manufacture for all industries in the group and was distributed among those industries represented. Owing to the basic nature of the products included in the index, they are probably fairly representative of the more finished commodities not represented—mostly wearing apparel and dyeing and finishing textiles.

Cotton manufactures.—The weight for this industry includes cotton small wares and lace, as well as cotton goods. The principal products series, woven goods (over 12 inches in width), is a total of several types of cloth—sheetings, tire fabrics, print cloth, ginghams, twills, sateens, etc., shirtings, cotton flannel, and a number of others.

Statistics of yarns include only those manufactured for sale, as total production or consumption data are not published. Because of the lack of data for materials used, it is now impossible to measure the extent to which other materials than cotton are included in the goods produced by cotton mills.

Hosiery and knit goods.—Products are totaled irrespective of materials used. The underwear figures have been divided into two series—union suits and shirts and drawers—because if they are added together the decrease in recent years in the total number of shirts and drawers produced appears to more than offset the increase in the production of union suits, whereas actually one union suit should be considered as replacing one of each of the separate garments. The treatment of these products as separate series with weight based on relative values of total output, avoids this possible error.

Silk.—Broad silks are the most important products of this industry. Velvets, plushes, upholstery, and tapestry were totaled to form a single series. Other silk goods are largely thrown silk, organzine, tram, and crêpe twist, with spun silk and machine twist important additions. The extent to which raw materials and yarns other than silk have been used in recent years is not indicated in the census reports.

Woolen and worsted goods.—The classification of goods as all-wool woven goods, union or cotton-mixed woven goods, and cotton-warp woven goods, as used in the index, has not been clear cut in recent census reports. It was therefore necessary to classify certain minor products such as shawls and carriage cloths,

for which fibers were not reported, as like products of the same establishments were classified in 1919. Figures for yarns and tops refer only to those made for sale, and are totals of many different kinds.

Oilcloth and floor coverings are represented by figures in square yards for the

Oilcloth and floor coverings are represented by figures in square yards for the production of linoleum and asphalted-felt-base piece goods and rugs and of various kinds of oilcloth. The figures had to be totaled because changes in classification of the products from one census to the other prohibited comparable separation.

Data for the other industries included—Carpets and rugs, Fur-felt hats, and Cordage and twine, jute goods, and linen goods—need no explanation. The figures are totals of several different kinds of products, individually small in magnitude, but collectively worthy of consideration.

#### GROUP III.—IRON AND STEEL AND THEIR PRODUCTS

This group, with the largest weight of all the groups, is represented by only two series of figures, which, however, cover products that are basic for all the industries in the group. In computing the weights, in addition to value added by manufacture for the iron and steel group proper, which as classified in censuses prior to 1923 includes a number of machinery industries, one-half of the values added for vehicles for land transportation and for shipbuilding were assigned to iron and steel. This procedure, as explained in the discussion of weights, was followed in order to avoid giving undue weight to vehicles, which happen to be represented in the index, while the machinery industries, also large consumers of steel, remain unrepresented. With the readjustment of weights, iron and steel represents in the index steel works and rolling mills, industries making a number of miscellaneous iron and steel products, the machinery industries, and in part, the vehicles industries.

Blast furnaces are represented by figures including castings made direct from blast furnaces and ferro-alloys, as well as all types of pig iron. About three-fourths of the pig iron produced is consumed in works of the producing company; therefore this series can also be considered as a raw material for the steel industry.

Steel works and rolling mills.—Rolled, forged, and other classified iron and steel products include a variety of finished and semifinished products, made in rolling mills for sale or for consumption by the producing company. Some duplication undoubtedly results from such a grouping, as a portion of these products are used by the same company for further production, but the effect of this duplication upon comparisons between census years is slight. This series is assigned a weight for steel works and rolling mills and for industries manufacturing products largely made by steel works and rolling mills.

As in the case of textiles, quantitative statistics are not available for a number of important industries in the iron and steel groups—notably hardware, plumbers' supplies, heating apparatus, tools and cutlery, and also certain machinery industries, which prior to 1923 were classified by the census under iron and steel. These are foundry and machine shops—a heterogeneous collection of establishments, generally closely associated with companies producing a wide variety of products—engines and water wheels, machine tools, textile machinery, cash registers, pumps, and typewriters. In the 1923 census these industries were classified with agricultural implements, electrical apparatus, and others in a separate machinery group.

In recent censuses quantitative statistics have been published for engines and water wheels, machine tools, textile machinery, agricultural implements, and electrical apparatus. Certain characteristics of these data, however, disqualify them for use in the production index. In the first place, the units in which the figures are expressed are of questionable comparability between census years.

Important shifts may occur in the character of machines produced in 2, 4, or 5 years. In fact, within a year the demand for different types may change to such an extent that totals become noncomparable. In the second place, these industries have passed through some extreme variations of activity in the past decade, and it is impossible to determine whether any single industry or any group of industries may be considered as at all representative of the group as a whole. The figures, however, are worthy of investigation, are undoubtedly of value for certain purposes, and may in time become increasingly significant.

Experimental indexes were computed for these industries and are given for those who may be interested. The extent of their accuracy and representativeness can not be stated.

TABLE 24.—INDEXES OF PRODUCTION OF MACHINERY: 1914 TO 1923

	* 4 · 1 · 4				1914	1919	1921	1923
	and water			 	27	100	43	80
	e tools		rts	 		100 100	33 118	4 13
Textile:	machinery jural imple	and par		 	89	100	67	

# GROUP IV .- LUMBER AND ALLIED PRODUCTS

Lumber and timber products.—The physical quantity of hardwoods and softwoods cut in each year since 1921 has been compiled by the Bureau of the Census in cooperation with the Forest Service, Department of Agriculture. The figures for 1919 include data from custom mills and from mills with an annual cut of less than 50,000 feet, whereas custom mills were not included in 1914, 1921, and 1923. and furthermore in 1923 figures for mills reporting less than 50,000 feet were omitted. The 1919 figures were adjusted for use in the index to make them comparable with those of other years. Statistics of quantity output of planing-mill products, such as flooring, sash, doors, interior woodwork, and moldings are needed. Of the other industries in this group, furniture is by far the most important, and for it physical quantity statistics are not only unavailable but would be difficult to obtain. Comparable statistics of wage earners and of horsepower indicate that the lumber and timber products industry alone is not representative of changes for the group as a whole. In view of this fact and of the possibility that the production statistics used are not entirely comparable from year to year, owing to differences in the types of canvass conducted, the index for lumber is not considered to be as satisfactory as those for the other groups. Weights for the two series used—softwoods and hardwoods—were computed on the basis of relative values of products.

# GROUP V.-LEATHER AND ITS FINISHED PRODUCTS

Leather, tanned, curried, and finished.—Statistics of the physical production of upper leather made from hides and skins of various animals, other than cattle, were first published in 1914 and have been added to other series representing this industry in the Harvard index—sole leather, harness leather, and upper leather from cattle hides. The importance of these additional types of leather is attested by the fact that their total value in 1919 exceeded that of sole leather and was double that of upper leather from cattle hides. Quantity statistics of leather production are now collected monthly in great detail by the Bureau of the Census. Boot and shoe production has also been reported monthly since late 1921, and the 1923 figures in the census of manufactures reports are the totals of these monthly

<sup>1</sup> For actual quantity figures, see Table 37, pp. 185 and 190.

canvasses. Gloves and mittens: These statistics were not reported in 1923, and for this reason and because their importance in the group was relatively slight the series was omitted for all the four years from 1914 to 1923.

As indicated by value added by manufacture, the industries from this group

As indicated by value added by manufacture, the industries from this group represented in the index make up a dominant proportion of the group total. The other industries not represented are of minor importance. The entire weight for the group, less that for boots and shoes, was assigned to the tanning industry.

#### GROUP VI.-PAPER AND PRINTING

Paper and wood pulp.—Pulp-wood consumption statistics have been compiled annually by the Bureau of the Census in cooperation with the Forest Service of the Department of Agriculture, and are published in the pamphlet "Pulp-Wood Consumption and Wood-Pulp Production." Wood-pulp production, given in the same pamphlet and also in the census of manufactures reports, represents total production, including that consumed in the producing mill. Paper production is shown in great detail by types according to use, and some of these are further divided into kinds according to process of manufacture. For use in index the totals for the most important types—newsprint, book paper (including cover paper), fine paper, wrapping paper, and paper board—have been separately included, while all others—chiefly building, tissue, bag, and hanging papers—have been grouped under the heading of "Miscellaneous."

Printing and publishing.—No adequate figures are available for measuring production in the important printing and publishing industries. Paper production may be considered as the closest indication of the output of newspapers and books and of activity in job printing and may be weighted accordingly, but paper consumption is more accurate, and, therefore, allowance has been made for imports and exports of paper, which in the case of newsprint have been of increasing importance. In 1914 imports of newsprint equaled less than 20 per cent of domestic production, whereas in 1923 the totals were 85 per cent of production. In other words, 46 per cent of estimated consumption of newsprint in the United States in 1923 was imported, as compared with 16 per cent in 1914. figures showing only the production of newsprint in this country can not be said to indicate growth in newspaper printing. The production of book and fine paper, less net exports of printing paper other than newsprint, was used to represent periodical and book publishing and job printing. Unquestionably, such statistics are inexact, but they probably give more accurate results than could be obtained from the use of paper-production figures.

Paper boxes.—Paper-board production was considered as representative of the paper-box industry. Imports and exports of box board are negligible.

In assigning weights, wood pulp and paper was weighted in accordance with value added by manufacture for industries in the group not represented in the index, in addition to that for the wood-pulp and paper industry proper. Weights for the individual pulp and paper series were based upon value of output, while those for the two series representing printing were based upon the relative importance of the newspaper and the periodical and book and job printing industries.

#### GROUP VII.-LIQUORS AND BEVERAGES

Under prohibition laws these industries have become of decreasing importance, and in the 1923 census of manufactures this group was abolished and its industries were divided among the food and chemical groups. No figures for these industries were included in the new index for years subsequent to 1919 for several reasons, of which the first is their relative unimportance and the next is that physical production statistics of their products are not given in the census reports.

The data used in the Harvard index were secured from the Annual Reports of the Commissioner of Internal Revenue and represented output in fiscal years ending June 30. In earlier periods these data for every five years probably represented with reasonable accuracy trends in the industry, but since 1919, when production has been decreasing at an exceedingly rapid rate and when comparisons are made every two years instead of every five years, fiscal-year statistics are hardly indicative of trends in calendar-year production. Furthermore, the figures formerly used covered only alcoholic beverages, and since data are not available for nonalcoholic beverages, which have shown an increase in production during recent years, an index based only upon the figures available would not be representative of the group.

#### GROUP VIII.—CHEMICALS AND ALLIED PRODUCTS

Several series of considerable importance were added to the industries in this group, and a number of others were revised in the new computation of the index.

Chemicals and acids.—This industry is a combination of two industries—Sulphuric, nitric, and mixed acids and Chemicals, not elsewhere classified—and is weighted accordingly. The statistics for this industry have been enlarged somewhat in recent years, and whereas the Harvard index was made up only of data for sulphuric acid, soda ash, and glycerin, the revised index includes, in addition, statistics showing the production of ammonium sulphate, acetylene, oxygen, pyroxylin plastics, and others of less importance. A representative index for this industry should be particularly serviceable, as monthly and annual statistics indicating the production of chemicals and acids are scarce. The figures used include products made in establishments classified in other industries. The value of the products included in this index equals about one-third of the value of all chemical products reported in the 1923 census. Weights are based upon values of products.

The Coke industry is represented by figures for coal consumed and coke produced. Gas, illuminating and heating is also represented by data for materials consumed—coal and oil, benzol, and benzine—as well as by gas produced for sale.

Fertilizers and Explosives are shown only in the form of products, as data for materials are not available in later censuses. In Cottonseed oil and cake the figures for hulls and linters have been omitted as too insignificant to be assigned weights. Crude oil and cake and meal are considered sufficiently representative.

Paint and varnish.—The data for this industry, which are given by the census in detail, are grouped into totals for index purposes. All colors or pigments produced and sold are combined into a total. The paints in oil, in paste form, include white and red lead and zinc oxide and are shown in pounds, while those mixed for use are given in gallons. Varnishes, japans, and lacquers are almost equally divided into oleoresinous varnishes and all other.

Petroleum-refining products have been reclassified since the census of 1909 in order to separate gasoline from other products, and in this respect the figures used differ from those employed in the Harvard index. In addition to the output of the important refinery products, statistics are also included showing production and refinery consumption of crude petroleum. These figures were not collected by the census in 1921, but were procured from Geological Survey reports.

Salt and Soap industries were added to those included in the Harvard index for this group. The latter is a rather important industry, and the production of hard soap, which is the series used in the index, in 1923 accounted for nearly two-thirds of the value of all products of the industry.

The industries in this group are rather heterogeneous in nature, and although those represented in the index accounted in 1923 for over three-fourths of the value added by manufacture for the entire group, it is hardly correct to say that they are representative of the others in respect to changes in production. Some of the more important industries for which no physical production data are available are Patent medicines, Perfumery and toilet preparations, and Druggists' preparations—all producing commodities which are destined for personal consumption rather than for use in further production.

#### GROUP IX.—STONE, CLAY, AND GLASS PRODUCTS

Brick and tile, terra-cotta, and fire-clay products include a large number of products, for many of which production statistics have been collected annually in recent years by the Geological Survey. The series selected for the index are, however, only the most important and include figures for face brick in addition to those for common brick and fire brick used in the Harvard index. Statistics showing the amount of bottles and jars and of pressed and blown glass produced have not been published in census reports since 1919, and therefore these series, which were used in the Harvard index, were necessarily omitted. Data for window and plate glass, however, have been continued. Production of Cement, including a number of minor by-products, and of Lime have been added to the series for this group of industries. The lime statistics are totals of the output of quicklime and hydrated lime. The tonnage of the latter equals about one-half that of quicklime. Marble, slate, and stone work, Artificial stone products, and Pottery are the important industries in this group not represented in the index. The value of the production of various articles of pottery are given, but no statistics expressed in physical units are available. In value added by manufacture, the industries included in the index comprised in 1923 over 60 per cent of the group total.

# GROUP X .- METALS AND METAL PRODUCTS, OTHER THAN IRON AND STEEL

Brass, bronze, and other nonferrous alloys, and manufactures of these alloys and of copper is the name applied to an important industry, or group of establishments, manufacturing a wide variety of products, largely from copper or copper alloys. The production of semifinished products is reported in pounds with a cross classification according to (1) raw material—brass, bronze, copper, and other metals and alloys—and (2) form—ingots, bars, plates, sheets, rods, tubing, wire, and castings. Brass plates and sheets, as indicated by total weight, were the most important products, with copper wire, copper rods, brass castings, and brass rods next in order. The figure used in the index is the total production in pounds of all these semifinished products. These figures have been available only since 1914 and were therefore not included in the old index. The output of products more nearly finished is reported only in value terms.

In computing indexes for the other industries in this group the procedure followed in the Harvard index was somewhat changed. In the earlier index estimates of the consumption of important nonferrous metals were used as indicating the productivity of the entire group, whereas in the new index, the group is represented by the industry mentioned in the preceding paragraph, by the smelting and refining industries, and finally by certain consumption estimates. For smelting and refining the following statistics were used: The refinery production of new copper in the United States from both domestic and foreign ores, total production of refined primary lead from domestic ores and from foreign ores and base bullion, smelter production of primary zinc from foreign and domestic ores, refinery production of gold and silver from United States mines. The figures for copper, lead, and zinc were compiled by the Geological Survey and those for gold and silver by the Director of the Mint.

Consumption statistics for these minerals have been estimated by the same authorities. The copper figures represent the amount of both new and old copper withdrawn on domestic account from the total supply. No account was taken of consumers' stocks. The lead data indicate apparent consumption of refined primary lead, disregarding both refinery and consumers' stocks; i. e., taking into account only those stocks in bonded warehouses. In the case of zinc, stocks at smelters were considered in estimating annual consumption. The figures, however, cover only primary slab zinc. For gold and silver consumption figures show the amounts issued for use in the industrial arts as reported by the Director of the Mint.

The extent to which these figures actually represent production of this group of industries can not be determined. Variations of the actual production from that indicated by the computed figures may be caused by any of a number of factors, such as differences in the uncounted stocks of metals, changes in the use of these materials by industries in other groups, and likewise variations in the consumption of other materials by industries in this group. Important industries of this group not directly represented in the index are Copper, tin, and sheet-iron work; Jewelry; Stamped and enameled ware, not elsewhere classified; Aluminum manufactures; and Gas and electric fixtures.

The weight for this group was distributed among its components on the following basis: Weights for the two industries directly represented—brass, bronze, etc., and smelting and refining—were based upon value added by manufacture as, respectively, reported for these two industries; and the value added for the other industries in the group was distributed among the series measuring the consumption of the various metals in accordance with their relative values.

# GROUP XI.-TOBACCO MANUFACTURES

On the basis of products for which production statistics are available, this is the most adequately represented of all groups of industries, as practically every product of the industry is covered. The figures are taken from "the annual abstract of tobacco manufacturers' accounts prepared by the collector of internal revenue at the close of each calendar year." Tobacco and snuff include plug, twist, fine cut, and smoking tobacco, and snuff. The statistics for cigarettes weighing more than 3 pounds per 1,000 and for cigars weighing less than 3 pounds per 1,000 were excluded from the index as being too small to be significant. In weighting this group the large portion of the value added by manufacture, which is made up of revenue taxes, was excluded. This amounted to about \$310,000,000 out of a total of nearly \$530,000,000 in 1923.

#### GROUP XII.-VEHICLES FOR LAND TRANSPORTATION

Assignment of weights to the various industries in this group was explained above under Iron and steel.

Motor vehicles.—Automobile production is now reported by the Bureau of the Census in detail by classes and types. The industry included, according to the 1923 census of manufactures, "all manufacturing establishments whose principal products are four-wheeled, motor-propelled (internal-combustion, electric, or steam) steerable vehicles." The production figures used include products made in establishments engaged in other industries. Owing to the rapid increase in the proportion of closed cars to the total number produced, and the essential difference between open and closed cars, the production figures for this industry have been divided into three series—(1) open passenger cars, (2) closed passenger cars, and (3) all others, including public conveyances, business vehicles, government vehicles, chassis, tractors, and trailers. The last series is a heterogeneous assortment, but it is relatively unimportant as compared with the other groups, and further separation would have no significant effect upon the industry

The three series were weighted in accordance with the relative values of their products. The index as thus computed was 25 in 1914 and 232 in 1923, whereas a comparison of unweighted totals for all types of vehicles gave relatives of 30 in 1914 and 206 in 1923. The weight for this industry as a whole was based upon the combined value added by manufacture for the Motor-vehicles and Motor-vehicle bodies and parts industries, reduced as explained above under Tron and steel.

Carriages, wagons, and repairs are represented by figures comprising completed carriages, wagons, buggies, public conveyances, sleighs, and sleds produced in establishments devoted primarily to the manufacture of such horse-drawn vehicles. The total does not include automobiles manufactured by the same

Railway equipment.—Products of several industries have been included in this category. Passenger-car production represents the total number of both steam and electric railroad cars produced by establishments engaged primarily in the manufacture of railroad cars, by railroad repair shops, and by other establishments. Freight cars are those made by all reporting industries for steam rail-The number of electric freight cars produced is relatively negligible. Locomotives were not included in the Harvard index, as figures have been given in census reports only since 1919. The data include steam locomotives made by establishments engaged primarily in their production, by railroad repair shops, and by establishments in other industries. The figure used for 1914 represents locomotives built in American and Canadian plants and in railroad repair shops as reported by The Railway Age. A comparison of the corresponding figure for 1919 with the census figure indicates that the former is too small rather than too large, despite the inclusion of Canadian output. The figures are not exactly comparable, but the difference is not appreciable. This industry prior to 1923 was classified in the Iron and steel group, but for the purposes of the index it was considered better suited for this group.

From the standpoint of the proportion of its industries included in the index, this industrial group is exceptionally well represented. Motor cycles and bicycles, Aircraft and parts, and a few other relatively unimportant industries are omitted. Motor-vehicle bodies and parts are not directly included but are represented with a reasonable degree of adequacy by automobile production. The chief defect of the figures for the industries in this group is the noncomparability of units-both those which in a single year are combined into totals and those which from one census year to the next bear the same name but are really different. The automobiles of 1914 were different from those of 1923 to an extent not entirely indicated by the change from open to closed cars, and perhaps to a smaller degree the same is true of railroad cars and of locomotives. The index is, therefore, only an indication of what has taken place, but is probably a more nearly correct indication than can be obtained from any other series of available

statistics.

#### GROUP XIII.—RAILROAD REPAIR SHOPS

New products manufactured by railroad repair shops have been included in the figures for Group XII, but the largest proportion of the output of this industry, consisting of repairs, is essentially unmeasurable on a physical basis and therefore is not included in the index.

# GROUP XIV .- MISCELLANEOUS

No figures were used in the Harvard index from the industries in this group, in part because they were not then available, in part because the industries were not especially important, and perhaps to some extent because the statistics available were unsatisfactory. Within the past decade, however, the two industries shown in the new index-Shipbuilding and Rubber products-have become of great importance, and in some instances the reporting of serviceable quantitative statistics has been started. Most of these statistics are in certain respects unsatisfactory for index-number purposes because of the difficulty of defining units, but, as was the case with the transportation industries, the indexes give an approximate indication of what has occurred and for that reason should be of value.

Ship and boat building.—As was stated earlier in this chapter (p. 95) any comparison of the volume of manufacturing which includes 1919 would not be accurate, unless consideration were given to shipbuilding, in view of its unusual activity in that year. The statistics employed in measuring production in the Shipbuilding industry show total gross tonnage of all vessels of 5 gross tons and over completed during the year. Two sets of figures are given—one for steel vessels and the other for wooden vessels. They cover only the production of private establishments engaged primarily in shipbuilding. Production by other private establishments engaged in other lines and by Government shipyards have not been given regularly in census reports. For those years in which reported, they were unimportant relative to the figures used. Distribution of the weights for the industry between the two series was based upon value of output. Assignment of the total weight to this industry was explained above under Iron and steel.

Rubber products, in the new classification of industries instituted by the Bureau of the Census in 1923, were given the dignity of a separate main group, made up of three industries-Rubber boots and shoes, Rubber tires and inner tubes, and Rubber goods, not elsewhere classified. Until 1921 the last two industries were combined in the census reports. Physical production statistics are available for two of these industries. In Tires and tubes the figures used represent production of pneumatic tires and inner tubes for use on automobiles. Motor-cycle and bicycle pneumatic tires and solid tires were omitted as of negligible importance. The figures for the Rubber boots and shoes industry since 1919 include, in addition to boots and shoes, data for rubber heels made for sale and for canvas shoes with rubber soles. These two products have been of increasing importance in the past decade. Value figures are given in the census reports for a number of other rubber products, but no other data of great importance are reported in terms of physical units. The products included in the index, however, comprised three-fourths of the total value of rubber products manufactured in 1923.

The only other industries of importance in this group are Agricultural implements, Textile machinery and parts, and Musical instruments. The first two were assigned in the 1923 census reports to the Machinery group of industries and are discussed above under Iron and steel. Musical instruments were given in the 1923 reports as a separate group. Quantitative production figures are reported for a number of instruments and other products and an index was computed for this group but because of the doubtful comparability of the figures over a period of years and the relatively slight importance of the group, it was not included in the index for all industries. The results, which are based upon products with a value equaling about 70 per cent of the aggregate value for all products in the group, are as follows:

Table 25.—Indexes of Production of Musical Instruments: 1914 to 19232

	1914	1919	1921	1923
Total	48	100	52	73
Pianos Phonographs and records	96 24	100 100	65 45	102 60

<sup>&</sup>lt;sup>2</sup> Quantity figures are given in Table 37, p. 189.

Table 26.—Data Used in the Index, Weights, Relatives, and Industry and Group Indexes, by Census Years: 1914 to 1925 1

GROUP AND INDIBERY	Truit		QUANTITY	ITY OF PRODUCES	DUCES			WEIGHTS	HIS		INDE	INDEXES AND RELATIVES [1919=100]	RELATI 100]	TES
		1914	6181	1921	1923	1925	1914	1921	1923	1925	1914	1821	1923	1925
All industries.							1,020	999 1	1,000	908	79.3	79.4	122. 0	128.5
Food and kindred products							Ħ	118	<b>8</b>	93	8.08	93.6	111.6	116.4
Butter, cheese, and condensed and evaporated								1		Ĺ		1		
Butter Cheese Condensed and evaporated milk	Mill. Ibs. Mill. Ibs.	769.8 370.3 873.4	920.6 473.6 2, 150.2	1,118.2 423.4 1,758.5	1,303.5	1, 443.9 554.3 1, 808.0	11000	51 St 4	संक्ष्यक	4000	83.6 78.5 40.6	104.9 121.5 89.4 81.8	122.4 141.6 119.0 84.7	151.6 156.8 117.0 84.1
Slaughtering and meat packing	***************************************						87	Q‡	es	88	7.97	90.1	118.0	105.9
Beeves, dressed weight Calves, dressed weight Sheep and lambs, dressed weight, Flogs, dressed weight	Mill. lbs Mill. lbs Mill. lbs	3,786.4 206.3 629.7 5,476.2	5,118.7 457.5 499.7 7,358.9	4,358.0 438.0 568.0 6,873.3	5, 151. 4 535. 7 515. 0 9, 439. 1	5, 434. 4 623. 6 531. 8 7, 864. 7	9449	9410	91110	9-1-10	74.0 45.1 126.0	85.1 95.7 113.7 93.4	100.6	106.2 136.3 106.4
Meat, fresh and cared Lard and lard compounds Hides and skins, cattle and call	Mill. lbs	9,660.3 1,515.6 434.5	12, 634. 0 1, 894. 0 627. 5	10, 976. 0 1, 952. 4 524. 1	13, 803. 2 2, 419. 7 626. 5	12,910.8 2,123.2 677.5	젊유다	138	18	18	76. 5 80. 0 69. 2	88.9 103.1 83.5	107.7 127.8 99.8	102.2 112.1 108.0
Flour-mill and grain-mill products			1				35	03	18	18	95.4	88.9	91.1	87.6
Grain, ground or milled Products—	Mill. bushels	818.9	830.0	713.6	743.2	708.0	7	9	41	41	98.7	88.0	89.5	85.3
Wheat flour. Corn meal and corn flour. Bran, middlings, feed, and offai	Mill. bblsThous. tops	116.4 16.3 9,419.8	132.5 10.7 9,327.1	110.8 10.9 8,936.9	114.4 12.2 9,663.4	114.2 9.0 9,058.0	됩니다	임다하	24%	948	87.8 152.3 101.0	83.6 101.9 95.8	86.3 114.0 103.6	86.2 97.1
Sugar, beet Material							ō	9	Ø	9	101.7	141.4	108.7	142.3
Beets. Product	Thous, short tons-	5, 639, 1	5, 648. 6	7,872.8	5, 786. 1	7,422.8	61	¢1	64	Ç1	99.8	139.4	102. 4	131.4
Beet sugar	Thous. short tons.	743.5	721.9	1,029.9	754. 5	1,082.8	ç3 :	.00	60	m	103.0	142.7	104.5	150.0
Sugar refining, cane: Refined sugar	Thous short tons.	3, 333. 1	3, 521. 5	3, 770.2	4, 429.1	5,411.7	LID.	1.0	247	, vo	7 7	107.1	125.8	153.7
<sup>1</sup> For sources and other details of quantity Table 37, Indexes for earlier years by groups a	of quantify figures given in this table, see section on "Description of Individual Series," Appendix by groups and for certain important industries are given in Table 38.	table, see t tant indus	section on ' tries are giv	"Descripti en in Tabi	on of Indi <sup>-</sup> le 38.	ridual Seri	es,"Ap	pendix	¥	or qua	atity fign	For quantity figures for earlier years, see	arlier yes	TS, 5ee

Table 26.—Data Used in the Index, Weights, Relatives, and Industry and Group Indexes, by Census Years: 1914 to 1925-

															U
GROUP AND INDUSTRY	Hull		QUANT	QUANTITY OF PRODUCES	DUCES			WEIGHTS	HTS		ECKI	INDEXES AND RELATIVES [1919=100]	RELATI 100]	VES	
		1914	1919	1921	1923	1925	1914	1921	1923	1925	1914	1921	1923	1926	
Food and kindred products—Continued. Canning and preserving, fruits and vegetables,							;	1	,	, ,					1,31
Canned vegetables. Canned fruits. Dried fruits. Canned soups.	Mill cases Mill cases Mill lbs Mill cases	568.6 4.0 6.9 6.9	58.1 615.4 5.8	38. 27.52 6.9 6.9	75.8 20.3 791.8	94.7 25.4 1,054.1	7 <del>6</del> 8 8 H	% © © ©	**************************************	5cm67	2.58 2.59 2.49 3.45 3.45	65.7 55.7 7.59 7.59 119.0	136.7 130.5 128.7 24.8	163.5 163.3 118.7 171.3	GILO
Canned fish, oysters, etc	Mill. cases	8 8 8	10.3	4.9	4.5	9.8	co	61	EN.	61		47.6		95.1	** 1
Corn sirup, corn oil, and starch: Starch	Mill. 1bs	620.8	783.5	894.1	858.4	874.3	4	. 69	70	. 10	79.2	114.1	109.6	111.6	11. 0
Ries cleaning and polishing: Clean ries	Mill. lbs	674.9	1,062.8	1,154.2	1,171.6	947.8	H	H	Н			108.6	110.2	89.2	.T. 741
Ice, manufactured	Mill. tons	21.04	27.95	37.38	35,84	40.16	6	ន	. 0	0		112.3	128.2	143.7	LZLIĄ
Textiles and their products				1		*	175	. 8	25	170	86	896	122, 9	119.3	OF
Cotton goods. - Woven goods (over 12 inches in width). Yarns manufactured for sale. Thread.	Mill. sq. yds Mill. lbs	6, 813. 5 498. 0 26. 5	6,317.4 618.0 26.4	6, 703. 8 484. 2 23. 3	8, 264. 2 620. 7 31. 6	7,775.7	5442	76 57 17	25.72	2522	107.9 80.6 100.2			117.9 123.1 101.4 142.4	.01.0101
Knit goods Hosiery Underwear—	Thous, doz prs	75, 165	84, 646	80, 241	97, 433	103, 707	12.23	289	28	28	93.9 88.8	94.8 0 8.48	115.2	112.5	
Shirts and drawers Union suits Gloves and mittens Sweeters increave hoods corrie chamle	Thous. dozThous. dozThous. doz. prs	21, 759 6, 273 2, 470	17, 180 9, 211 3, 571	11,712 9,284 2,685	12, 747 10, 746 2, 094	11,262	- er e	421	ससम	444	126.6 68.1 69.2	100.8 75.2	74.2 116.7 58.6	65.6 124.9 36.4	
â	Thous. doz	3,300	2, 989	3,618	6, 278	5,011		4	4	4	110.4	121.1	210.1	167.6	
Silk manufactures Broad silks Velvets, plushes, upholstery, and tapes-	Mill. linear yds	216.03	310, 13	273. 59	357.03	472. 52	83	27.88	25	19	73.2	98.6 88.2	116.9	187.0 152.4	
	Mill. linear yds	7, 240	10,853	18.03	26.38	9.68	(c) At	63.00	63 44	C/ 4t	115.0	120.3	117.1	43.0	

Mill. sq. yds   Mill. ps. yd	Mill. sq. yds 66.34 52.17 52.91 83.24 72.10 6 6 7 6 127.2 101.4	angoods	Mil. lbs. Mil. l	Thous. doz 2,119 2,100 1,756 1,970 1,733 4 3 4 3 100.9 83.6 83.8	Mill. sq. yds 119.5 100.9 135.8 205.2 211.7 3 3 3 108.7 123.5 186.7	cds 234 254 71,1 66,6 131,3	Thous, long tons.— 23, 270 30, 543 16, 618 40, 163 36, 688 24 21 24 24 76.2 54.4 131.5	plassified iron Thous. Long tons 25, 523 36, 212 20, 572 47, 513 48, 100 210 210 230 230 70.5 56.8 131.2	28 83 83 110 W	65 67 67 109.7 82.8 115. 15 15 16 113.7 88.4 89	45 40 38 36 87.4 85.2	Thous, sides 19,716 18,068 15,728 1 1 15,55 1,288 1 1 1 171.1 47.1 90.4	Thous. stins	,
Woolen and worsted goodsAll-wool woven goods	Carpets and rugs, wool, other than rag: Carpets and rugs.	Cordagesard twine, jute goods and linen goods Rone, and hinder twine, exclusive of col-	ton ropeTwine, other than binder	Hats, fur-felt	Olleloth and floor coverings: Piece goods, rugs, etc	Iron and steel and their products	Blast furnaces: Pig iron, including ferro-alloys	Steel works and rolling mills: Rolled, forged, and other classific and steel products	Lumber and its remanufactures	Lumber: Softwoods Hardwoods	Leather and its finished products	Leather, tanned, curried, and finished. Sole leather Harness leather	Upper leather (other than patent)— Skins, total Cattle sides	Boots and shoes, leather:

APPENDIX A—CONSTRUCTION OF THE INDEX

Table 26.—Data Used in the Index, Weights, Relatives, and Industry and Group Indexes, by Census Years: 1914 to 1925—Confining

<b></b>				حفاد	63		0.15							**	Lemmanone
	VES	1925	152.8	141.2	111.2	118.1	155.5	152.7	156.5 162.0 151.0	176.1				140.6	158.1 172.3 172.3 175.0 159.0 176.7 176.7 176.7 176.7 176.7 176.7
	s and relatives [1919=100]	1923	137.1	124.8	107.2		989	137.7 107.7	141.8 152.8 131.6	149.6				125.1	113.6 100.4 100.4 100.4 175.3 100.4 175.3 118.1
	ES AND [1919=	1921	93.4	86.2	83.2	88. 40-	3%	8.89.E	96.7 109.6 83.6	93.2				94.5	25.00 20.00
	INDEXES [1]	1914	87.6	\$.98	81.6	95.0	106.	8 75 89 1 9 5 5	88.50 24.00 94.00	69.1	232.2	180.5	238.8	70.7	20.00 20.00
		1925	28	52	a	60, A16	o 41	2461	888	, ro	-			8	& Landandan
	BTS	1923	8	92	61	w 40	2 41 6	० सा ६३	888	rO				88	<u></u> 20 — 20 — 20 — 20 — 20 — 20 — 20 — 20
	WEIGHTS	1951	98	98	63	10 A10	2 At 6	0 4t C1	338	10	1			8	%-имнничии миничиния миничини миничиния миничиния миничиния миничиния миничиния миничиния миничиния миничиния миничиния миничиния миничиния миничиния миничини миничи миничини миничини миничини миничини миничини миничини миничи миничи миничини миничи
		1351	63	32	ବା	60 A10	0.410	० च ८३	8888	10	<u></u> 8	N N	- 81	<b>9</b> 8	рниниял   аю
		1925	-		6,094	1,563	1,292	4.1.0, 8.23 8.23 8.23	2,984	3, 287					2,017.0 1,017.0 181.7 1897.3 197.3 1,007.8 7,012.3
	DUCES	1923			5,872	1,588	1,02	4-1.4 858	2,814	2, 793	7.		-		2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2
Continued	QUANTITY OF PRODUCTS	1821			4, 557	1,23,792	125	1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,	2,018	1,740				-	290.8 536.0 27.6 54.6 238.0 1,059.8 1,059.8 4,369.9
Cont	QUANTE	1919			5, 478	1,324	831	3, 8, 10, 8, 10, 8, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10,	1,842	1,867		100.8	27.7		311.4 590.4 27.5 590.8 312.7 695.5 1,173.4 1,033.5 5,552.6
		1914			4, 470	1,313	888	2, 632	1, 567	1,291		181.9	66.2		121.7 179.6 16.7 50.4 291.5 60.9 104.7 835.3 4,071.6
	Trait				Thous. cords	Thous. short tons.	Thous. short tons.	Short	Thous. short tons.	Thous, short tons-		Thous. gals.	Thers. bbls		Mill. cu. ft
	GROUP AND INDISTRY		Paper and printing.	Paper and wood pulp	Material— Products— Products—	News paper, in rolls and sheets Book paper.	Wrapping paper	papers. ral production	Printing and publishing. Newsprint consumed. Other printing paper consumed.	Paper boxes: Box board produced		ol produced	Liquors, malt: Fermented liquors	Chemicals and allied products	Chemicals and acids.  Acetypen: Ammonium suphate. Ammonium suphate. Carbonic acid Carstic soda. Glycerin, refined O'Ngen. Pyroxyim plastics. Soda sah. Sulphurit acid (basis 500).

APPENDIX	A-CONSTRUCTION OF	THE	INDEX	121
WEI DIADIA	TE. COMPTROCTION, OF	T 111111	7747575	- 200 1000 1000

115.7	113.6	116.1	98.2	118.8	98.8 101.1	116.5	108.9	139.8	103.3 115.4	136.3 212.3	\$08.4	201.8	283.0 104.8 187.8 165.6	106.3	108.0	152.6	147.0		110.0
129.0	128.7	129.0	91.6	112.4	99.1	115.6	114.0	125.9	106.9	143.8	162.7	193.6	200.9 93.0 154.1	67.8	67.3	155.2	145.0	103. 0	108.9
67.1	56.7	57.2	72.8	98.4	91.0	99.3	80.5	288.4	107.5	79.0	120.2	124.8	139.7 49.4 84.1 125.5		85.7	129.2		72. 4	95.4
78.4	78.7	78.3	102.4	68.3	79.9	0.89	95.2	73.7	105.4	63.3	4.64	70.2 52.4	83.9 83.9 84.1	127.0	122.0	131.3		70.8	92.4
<u>-</u>	H	æ	41	13		Ħ	က	∞ ⊷		-63	78	60 44	07770	7 -4	es	6)	H	p=4	5
8	, m	1	**	13	нн	Ħ	63	∞⊣	0	,H 63	61	<b>60</b> 44		× -+	co	91-	Η.		- C
9	т,	-41	4	1/4		21	್ಣ	∞ ⊢	mes	- C1	32	€0 4t	@H0140	** 17	-00	<b>6</b> 0		<del>, -</del> -1	<b>.</b>
5	H	41	7	17	. 61	77	. 63	∞ ∺	61 69		17	6163		10	m 63	<b>6</b> 5 m	٠ <del></del>		10
1	74.5	51.3	8,091		7,564	359.4	551.2	1, 555, 3	411.3	88.3 55.0	-	763.7	10,726 584 2,365 14,590	1,361	2,368	8	3,064	7,307	2,019
	4.48	57.0	7,549		7,338	356.6	577.2	200	gr.	40.00		732.4	7, 332 518 2, 239 11, 976	1, 151	129.8	9	3, 555	7,131	2,000
-	37.3	25.3	26		6,972	306.1	407.4	743 5	428.2	. 64.8 64.8		472.2	5,098 1,939 9,749	êr.	1,790	10	3,020	4,981	1,752
-	65.6	44.2	2000 8	Š	7,658	308.4	S.	1	398.3	 8 8 8	4.14	378. 4 265. 3	3,649 2,306 7,768		2, 192	100	2,451	6,883	1,836
-	FI. 8	34.6	0, 130	794.6	6,117	203.6	881		420.0 20.0	17.8	a.si	265.8	1,195	518	229.3		27.6	4,873	1,697
	Aftil short tone	Mill, short tons		Thous, short tons-	Thous, short tons.	Bill, ca. ft		WITH, 105	Mill, Ibs	Mill. gals	Mill, gals	Mill. bbls		Mill. gals	Mill. gals.	THORS: STOR & ACTO	Mill, gals.	Thous, short tons-	Mill, Ibs.
	Joke, not including gas-house coke	Coal Product—		ers	8	benzol, and benzinectct			Colors (pignents) Paints in oil	, and lacquers—	s, and lacquers.	Petroleum refining Grude petroleum— Domestic production	Refinery consumption. Products Gasoline Other light products of distillation. Illuminating oils.	Fuel oils Lubricating oils	Oll and cake, cottonseed	Oake and meal	Turpentine and Justine	Salt:	Soap: Hard soaps

Table 26.—Data Used in the Index, Weights, Relatives, and Industry and Group Indexes, by Census Years: 1914 to 1925—

GROUP AND INDUSTRY	Unit		фарми	QUANTITY OF PRODUCES	opucrs			WEIGHTS	HTS		IONI	INDEXES AND RELATIVES [1919=1,00]	RELATI	75.8
		1914	1919	1921	1923	1925	1914	1881	1923	1925	1914	1921	1923	1925
Stone, clay, and glass products							8	\$	8	<b>g</b>	7 619	8	1	
Brick and tile, terra-cotta, and fire-clay								3	3	3	Trong.	200	0.69	1.8.1
Common briok. Fire briok. Face briok.	Mill. brick Mill. brick	7,146 817 810	4, 752 963 791	4,448 621 873	7, 282 1, 134 1, 931	7, 562 998 2, 475	£0.4€	ಪ್ರಜಲ್ವ	ಪ್ರಭಾಣಕ	7,000	122.6 150.4 84.8 102.4	88.1 93.6 84.5 110.4	154.8 153.2 117.8 244.1	167.8 159.1 103.7 312.9
Plate glass, polished	Mill. sq. ff.	401.0	368.9	260.0	510.2	567.2	400	99	\$5 0 Q	9,00	107.6 108.7 106.3	88. 5 70. 5 98. 9	151.7 138.3 166.4	178.5 153.8 206.7
Coment	Mill. bbls	89.0	81.3	99,4	138.8	163, 4	6	2	97	7	109.5	122.3	170.7	201.0
Quicklime and hydrated lime, total	Thous, tons.	3, 381	3,071	2, 391	3, 766	4, 062	61	1-4	H	·	110.1	77.9	122.6	132.3
Metals and metal products, other than iron and steel			٠.				;		· ;					
	******************						#	<b>22</b>	\$	<b>3</b>	64.9	. 88 . 4.	125.7	129.8
and manufactures of these alloys and of copper. Semifinished products.	Mill, Ibs	449,4	1,434.3	782.9	1 937 6	1 772 9	ç	95	ş	5				
Smelting and refining				2	į	1	2 5	3 °	3 \$	3 5	51.3	94.0	135.1	123. 6
Touper, primary Lead, primary Gold, primary Gold production in United States. Silver production in United States.	Thous. short tons. Thous. short tons. Thous. short tons. Thous. fine ozs	766.9 542.1 353.0 4, 573 72.46	885.1 482.2 465.7 2,919 56.68	475.4 448.6 200.5 2,422 53.05	989.9 618.3 510.4 73.34	1, 102.3 767.0 572.9 2, 412 66.16	4004	o co ⊢ co ⊢ ⊢	3400H-	2 4 21 21 H -	86.6 112.4 136.7 136.7	88.50 10 10 10 10 10 10 10 10 10 10 10 10 10	111.8 111.8 109.6 109.6	124. 5 124. 5 159. 1 123. 0 82. 6
Other industries.							183	98	02	78	75.7	75.7	125.4	136.5
Copper (new and old) Lead Zing	Thous short tons. Thous short tons. Thous short tons.	479.0 452.5 300.0 9.902	744.5 434.1 324.0 3.652	523. 0 444. 9 203. 6 2. 452	1,061.0 573.5 446.5 3,352	1, 120. 5 655. 7 500. 1 3, 191	∞ 41 cp 41	∞ w w 4₁	∞ m m 41	0000000	92,6 92,6 60,3	70.2 102.5 62.8 67.1	142.5 132.1 137.8 91.8	150.5 151.0 154.4 87.4

1.4.4	7.3 96.7	3.3 91.9	9		9 176	25.55 25.55		1 100	158.8	1.9 175.6	11 232.7	800000	
95.3   109.	.3 97.	5.1	H 0	1.7 232. 1.6 158.	161 (6	Pr.010	P•	133	.0 130.	1.6 185.	.5 172	7 110. 19 98. 15 124.	-   .
	91.	- 4 . 95.	7 98.	1 2 2		, н.		5 15.		8. 88 8. 88	27.	57.2	-
¥.86.4	ŽĮ.	101	ਲ ¥ 	*   24 kg 4	 2 % \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			<b>₽</b>	<u>း</u>	24.24	প্র	% <del>24</del> 88	=
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1	410.2	6, 501	79.96	1, 485.0	592 173	3,800 97.7 13.84	(3/0	242.0		58. 78	1,035	4, 739 52, 34 25, 00 342, 2	
	412.8	6,950	68.72	2,217.8	236.	4,908 179.8 3,596		281.3 112.8		45.43	57.23	9,098 60,10 26,11 289,2	
	387.0	6, 726	52.09	1099. 6 304. 2	199.3	2,848 56.3		1, 206. 9	2	27.30	82.88 401.	6, 532 57. 19 15. 24 137. 5	
	424.1	7,072	53, 12	1,399.8	336.9 808.8	2,068 165.7 3,411		3, 734. 2 755. 6	-	32.84	33.26 1,455	9, 208 66, 15 21, 03 138, 5	
	440.9	7, 174	16.86	536.0	27.0 1,124.9	6, 138 127.3 2, 235		243.0 182.1	-	8.02	7.91	4,024	
	Mill. lbs.	Millions	Billions	Thous, cars.	Thous. carsThousands	Number Thous. cars Number		Thous, gross tons Thous, gross tons		Millions	Millions	Thous, prs. Mill. prs. Mill. prs.	
Tobacco manufactures	Tobacco, chewing and smoking, and smuff: Tobacco and snuff.	Cigars, weighing more than 3 lbs. per 1,000. Tobaco, cigarettes: Cigarettes, weighing more than 3 lbs. per	1,000 Vehicles for land transportation	Automobiles. Presenger cars—open. Presenger cars—closed.	Carriages, wagons, and repairs: Complete vehicles of all classes.	Railway oquipment. Passongar sayrioa. Freight sayrioa. Locomotives, steam.	Ship and bost building	Vessels of 5 gross tous and over launched: Steel Wooden	Rubber products	Rubber tires and inner tubes. Casing, pneumatic, automobile and truck. Inner tirkes, menmatic, automobile and	truck Solid tires, truck	Rubber boots and shoes. Rubber boots. Shoes and overshoes. Canyas shoes with rubber soles. Heels for sale.	

# APPENDIX B

# GENERAL TABLES

Data.—Actual figures upon which this study was based are given in detail in the following general tables. The first two tables (27 and 28) show the number of wage earners employed and the amount of primary horsepower installed for certain major groups and important subgroups of industries. Tables 29, 30, and 31, respectively, give data for wage earners, horsepower, and value added by manufacture for a number of selected industries, arranged by industrial groups. Number of wage earners and primary horsepower from 1899 to 1923 and total value of products from 1869 to 1923 for all industries, arranged in alphabetical order, are given in Tables 32, 33, and 34. In Tables 35 and 36 the wage earners and horsepower data are shown for the various States and geographic divisions. Table 37 provides data on physical quantity of production of all products for which such information has been given in the census reports, and Table 38 gives the index of production for the more important industries and groups from 1899 to 1923.

Changes in data.—Comparability between figures has not been maintained throughout the entire period for all industries. There have been changes in definition, designation, and classification; new industries have grown up, old ones have become of negligible importance; and the grouping of industries has changed from time to time. These changes as they refer to individual industries are indi-

cated in the tables by means of footnotes.

In computing the percentages attempts have been made, wherever these shifts were important, to compare only homogeneous sets of data in adjoining census years, and the percentages for the entire 24-year period in such cases are derived indirectly by linking together the percentages for the separate intercensal periods.

There have been several important changes of a general nature

which affect all tables. These are as follows:

1. For the census years 1899 to 1919, inclusive, factories having products valued at \$500 or more were included, but the statistics for 1921 and for 1923 relate only to establishments having products valued at \$5,000 or more. In the tables, two sets of data are given for 1919, one comparable with the earlier years and the other with the later years.

2. The horsepower figures for the census years prior to 1919 include data for rented power other than electric, whereas the statistics for

1923 do not include such data. Data for primary horsepower were not collected in 1921.

- 3. The statistics for 1921 and 1923 do not include data for establishments engaged in automobile repairing, and although these data were collected in 1919 and were included in the figures as given in the right-hand column for that year, they were not included in those given in the left-hand column.
- 4. Owing to the lack of comparability between figures for the censuses since 1919 and those for earlier censuses, the percentages of change for the period 1899–1923 were not computed directly but are combinations of two sets of percentages computed from comparable data, one set covering the period from 1899 to 1919, the other the period from 1919 to 1923.
- 5. The grouping of industries is that followed in the census reports prior to 1923. The data for 1923 were regrouped, as nearly as possible, on the basis of the earlier classification. This was necessary in order to preserve comparability, as it was not feasible to regroup data for all the earlier years on the basis of the new classification. See Chapter IV.

Table 27.—Average Number of Wage Earners Employed in Industrial Groups, by Census Years, and Per Ceny of Ingrease, by Census 27.—Average Number of Wage Earners Periods: 1899 to 1923

[Because of the omission of certain minor industries and the transfer of a few others from one group to another, some of the group totals and some of the items given in this table differ somewhat from the corresponding totals and items as they appear in the census reports. As to the comparability of 1921 and 1923 figures with those of previous years, see general remarks preceding the tables, par. 4, p. 125]

		*	VERAGE	NUMBER (	OF WAGE	AVERAGE NUMBER OF WAGE BARNERS				PER CENT OF INCREASE OR DECREASE	T OF I	TOREASE	COBD	ECREASE	ĵ.	
GROUP	Excludir lishme valued	Excluding data for establishments with products valued at less than \$5,000	r estab- roducts in \$5,000	Includ	ling data oducts va	Including data for establishments with products valued at \$500 or more	lishments 300 or mor	with	24-year period,		1	Intercensal period	sal peri	PG		
	1923	1921	1919	1919	1914	1909	1904	1899	1821 1823	1919- 1923 1	1921-	1919-	1914- 1919 2	1909-	1904	1808
Food and kindred products	625, 524	568, 734	681, 031	684, 672	496, 234	411, 575	354, 046	301,868	108.2	-8.2	10.0	-16.5	88.	20.6	16.2	17.3
Animal products.	183,410 442,114	164, 622 404, 112	217, 039 463, 992	217, 268 467, 404	137,884 358,350	119, 385 292, 190	100, 768 253, 278	96, 392 205, 476	90.5	-15.5	11.4 9.4	-12.9	30.4	15.5	18.5	23.3
Textiles and their products	1, 716, 646 1,	1, 510, 876	, 608, 131	1, 611, 309	1, 507, 374	510, 876 1, 608, 131 1, 611, 309 1, 507, 374 1, 445, 720	1, 163, 497 1,	1,028,706	67.1	6.7	13, 6	6.0	6	4,	24.3	13.1
Textile fibrics and materials.  Articles from textile fabrics for personal	1, 164, 638	988, 557 1	993, 5571, 051, 9841, 052, 327	1,052,327	950,880	909, 507	764, 757	683, 772	70.4	10.7	17.2	-5.6	10.7	4.5	18.9	11.8
	499, 413 52, 595	473, 574 43, 745	505, 293 50, 854	507, 700	510, 595 45, 899	508, 138 28, 075	373, 337 25, 403	318, 587	56.7	-1-65 -1-65	20.5	-14.0 -14.0	11.7	8.5	36.1	17.2
Iron and steel and their products	1, 527, 120	1, 527, 120 1, 031, 523 1, 583, 928 1, 585, 712 1, 061, 058 1, 026,	, 583, 928	1, 585, 712	1,061,058	1, 026, 553	868, 634	745, 235	105.1	-3.6	48.0	-34.9	40.4	4,	18.2	16.6
Crude iron and steel and rolled products, including products not made in rollingmall establishments (though largely made therein), plus wire and wirework, not elsewhere specified.	608, 447 1918, 673	374, 521 557, 002	587, 491 1 996, 437	587, 742 997, 970	406, 634 654, 424	395, 584 630, 969	321, 291 547, 343	282, 949 462, 286	115.2	3.6	62.5 39.8	36.3	52.5	જારુ જાંજી	15.3	13.6
Lumber and its remanufactures	896, 236	675, 069	825, 884	839, 008	833, 529	911, 593	734, 136	671, 696	35.5	8	32.8	-18.3	·.	8.6	24.2	6,3
Lumber and timber products, plus planing-mill products	1 297, 296	442,280		555, 679 567, 901 576, 900 270, 205 3 271, 107 3 257, 529	576, 000 3 257, 529	659, 570 252, 023	502, 237 486, 767 3 231, 8991 3 184, 929	486, 767 \$ 184, 929	25.8 61.3	10.0	35.4	-20.4 -13.8	1 4.60	12.2	31.3	3.2

6.4	လ က လ 4	17.7	888 00	12.6		<b>数</b> 战 0 ∞	15.7	83	25.7 7.4 4.4	83.0	17.1 25.9	20.3	22	437.7	4.7	37.3
17.1	. 60 5. 72	18.3	15.2 33.8	17.8	13.9	21 Ki	17.6	20.1	8.11.8 8.44	25.7	85.83 0.83	4.6	88	523.4	8.3	22.9
G.	1.0.1	8	13.8	rų Lū	13.3	17.9	12.1	-2.4	5.73	5.0	0.4. 8.6.	7.2	83.6	8.79	24.6	20.1
13.8	23. 10.3. 10.3.	12.6	19.8 4.6	5.7	-37.1	12.5	42.5	-10.7	12.0 1.0 4.00	28.5	51. 5 19. 9	-12.2	76.0	170.0	5.0	40.9
-19.7	-32.4	-7.0	-7.4	4.2	-35.1	-45.4 -11.4	-22.7	-15.3	28.6 28.6 12.1 12.1	-30.5	-47.7 -21.0	-3.2	-38.1	-37.9	-13.0	-18.9
33.0	ង្គង	12.8	44.63 7.75	0.6	-11.4	इंद्र	8	37.7	36.2 41.8 32.6	39.3	27.2	72	81.4	90.3	67.8	25.1
-1.2	-17.6	94	6.4 6.9	4.4	-42.5	-65.0 9.3	- 5.0	16.6	22.5	13.2	-9.9	5.6	16.0	18.1	45.9	1.5
38.8	14.6 45.3	79.1	143.1	25.5	-42.2	-71.3 117.0	106.4	50.3	81.7 40.2 36.1	103.5	101.3	11.9	382.6	18,082.1	117.5	189.8
248, 626	52, 109 196, 517	298, 744	49, 646	203, 643	55, 120	46, 332 8, 788	196, 538	231, 716	62, 673 108, 756 60, 287	161, 463	54, 020 107, 443	132, 526	133, 663	2,241	37, 038	180, 620
264, 459	57, 239 207, 220	351,640	65, 964 56, 320	229, 356	68, 338	57, 459 10, 879	227, 326	285, 346	87, 731 122, 618 74, 997	198, 531	63, 235 135, 296	159, 406	136, 625	12,049	38, 788	247, 922
309, 766	62, 202 247, 564	415,990	75, 978 69, 733	270, 279	77,827	64, 680 13, 147	267, 281	342, 827	124, 512 137, 048 81, 267	249, 607	74,627	166,810	202, 719	75,721	46, 669	304, 592
307,060	55, 936 251, 124	452, 900	88,457	285, 075	88, 152	72, 646 15, 506	299, 569	334, 612	114, 123 134, 736 85, 753	262, 154	79, 700 182, 454	178,872	250, 514	127,092	58, 128	365, 902
349,362	72,476	509, 875	113, 759	301, 357	55,442	38, 002	427,008	298, 659	89, 723 122, 337 86, 599	339, 469	120, 706	157,097	440,878	343, 115	55, 218	515, 709
348, 715	72,465	502, 298	113, 752 94, 633	283, 913	54, 493	37, 961 16, 532	425, 996	296, 229	88, 145 121, 588 86, 496	338,383	120,646	154, 969	440,008	342, 876	55, 218	515, 535
280,071	48,955	467, 072	105, 294	281, 500	35, 374	20, 723	329, 472	250, 812	82, 165 106, 849 61, 798	235, 170	63, 083	149, 985	281, 350	212, 777	48,033	418, 285
344, 545	59,703	526, 795	120, 677	306,840	31, 338	13, 276	404, 786	345, 370	111, 900 151, 514 81, 956	327, 537	108, 663	146, 337	510, 468	404,886	80, 590	523, 430
Leather and its finished products	Leather, tanned, curried, and finished	Paner and printing	Paper and wood pulp.	Printing and publishing, plus industries relating to printing and publishing	Liquors and beverages.	All except mineral and soda waters	Chemicals and allied products	Stone, clay, and glass products	Industries using stone as a material Industries using clay as a material Glass and manufactures of glass	Metals and metal products, other	Metals, including smelting and refining Metal products, plus "related industries".	Tobacco manufactures	Vehicles for land transportation 4	× :	Cars, steam and electric railroad, not including operations of railroad companies.	Railroad repair shops

See footnotes at end of Table 28, p. 129.

Table 28.—Amount of Primary Horsepower Installed in Industrial Groups, by Census Years, and Per Cent of Increase, by Census 1899 to 1923

No data in regard to prime movers were collected for 1921. Because of the omission of certain minor industries and the transfer of a few others from one go of the group totals and some of the items given in this table differ somewhat from the corresponding totals and items as they appear in the census reports. bility of 1921 and 1923 figures with those of previous years, see general remarks preceding tables, pars. 2 and 4, pp. 124 and 125]	1921. Beca this table d is years, see	use of the lifer somev general re	Because of the omission of certain minor industries and the transfer of a few others from one group to another, some ble differ somewhat from the corresponding totals and items as they appear in the census reports. As to the comparas, see general remarks preceding tables, pars. 2 and 4, pp. 124 and 125]	f certain m the corresp ceding tabl	inor indus onding tot es, pars. 2	tries and tals and the	he transfer ns as they 124 and 125	of a few appear ir ]	others the cen	from one sus repor	group te ts. As	p to another, some As to the compara-	, some mpara-
			PRIMA	PRIMARY HORSEPOWER	OWER			PEB (	SO LNEC	PER CENT OF INCREASE OR DECREASE	E OR DE		ı î
GROUP	Excluding data for rented power other than electric	Excluding data for rented power other than electric	Luctud	Including data for rented electric	or rented electric	power other than	er than	24-year period,		Inter	Intercensal period	riod	
	1923	1919	1919	1914	1909	1904	1899	1923	1919- 1923 i	1919 2	1909-	1904- 1906	1899
Food and kindred products.	2, 641, 916	2, 564, 874	2, 571, 157	1, 994, 983	1, 725, 985	1, 405, 567	1, 182, 902	133.9	3.0	28.9	15.6	8.8	18.8
Animal products. Vegetable products.	2, 020, 230	579, 408 1, 985, 466	580, 520 1, 990, 637	412, 106 1, 582, 877	323, 050 1, 402, 935	223, 107 1, 182, 460	182, 969 999, 933	240.5 102.7	5-1	25.52 0.03 0.03 0.03	27.6	18.6	21.9 18.3
Texhiles and their products	3, 794, 443	3,258,788	3, 274, 090	2, 752, 054	1, 288, 031	1, 745, 309	1, 395, 967	173.0	16.4	19.0	20.3	31.1	25.0
Textile fabrics and materials Articles from textile fabrics for personal wear Other articles from textile fabrics	3, 556, 440 132, 317 105, 686	3, 024, 486 131, 965 102, 337	3, 037, 732 133, 000 103, 358	1, 543, 238 120, 314 881502	2, 127, 979 90, S00 69, 252	1, 634, 777 59, 121 51, 411	1, 316, 705 42, 826 36, 436	171. 3 211. 5 193. 1	17.6 0.3 3.3	19.4 10.5 16.8	19.5 27.8 27.8	30.23	24.2 38.0 41.1
Iron and steel and their products	8, 934, 585	8, 071, 629	8, 082, 692	5, 537, 842	4, 561, 284	3, 326, 702	2, 188, 594	308.8	10.7	46.0	- 21. 4	37.1	52.0
Crude iron and steel and rolled products, including products not made in rolling-mill establishments (though largely made therein), plus wire and wriework, not elsewhere specified.  Other iron and steel products.	·	6, 632, 365 6, 006, 965 2,302, 220 3 2, 065, 064	6, 010, 688 2, 072, 004	4, 275, 692 1, 262, 150	3, 554, 191 1, 007, 094	2, 586, 446	1, 685, 882	293. 6 359. 6	10.4	. 40.6 64.2	8. 6. 30. 3	37. <del>4</del> 36. 0	53.4
Lumber and its remanulactures	3, 323, 262	3, 397, 178	3, 417, 941	3, 185, 861	3, 250, 296	2, 218, 266	2, 113, 856	58.1	-2.2	7.3	-2.0	46.5	4.9
Lumber and timber products, plus planing-mill products.  other manufactures of lumber.	4 897, 747	2, 772, 415 4 624, 763	2, 778, 608 1 639, 333	2, 607, 209 3 578, 652	2,727,584 3,522,712	1, 800, 673 1, 417, 593	1, 603, 870 3 509, 986	51.6 80.2	-12.5 43.7	6.6 10.5	10.7	51. 5 25. 2	12.3
Leather and its finished products.	412,938	382, 537	389, 130	317, 887	281, 117	203, 620	159, 833	163.0	8.0	22.4	13.1	28.1	27.4
Leather, tanned, curried, and finished Finished products of leather	230, 187	217, 761	218, 238	172,712 145,175	148, 140	117, 450 86, 170	88,880 70,973	159.6 167.0	5.7	28. 17.71	16.6	28.1	32.2 21.4

3 2, 348, 999 2, 051, 984 1, 674, 061 1, 307, 781 913, 445 200.7	9 1,851,014 1,621,154 1,304,265 1,093,708 762,118 186.1 1118,415 87,222 62,564 40,316 27,048 406.2	5 379, 570 343, 608 307, 232 173, 757 124, 279 245. 4	3 415, 361 525, 769 446, 450 347, 723 254, 615 -2.3	6 373, 597 500, 605 427, 058 385, 509 246, 578 -25, 6 7 41, 764 25, 164 19, 392 12, 214 8, 037 717. 9	4 2,043,525 1,467,831 1,025,676 729,627 460,790 487.6	5 1, 569, 719 1, 490, 976 1, 240, 908 775, 718 510, 013 274. 3	4 785, 142 801, 073 635, 615 298, 770 180, 973 475, 5 8 569, 709 516, 551 473, 402 375, 704 271, 666 128, 9 3 216, 868 175, 351 131, 891 98, 244 67, 374 338, 1	00 988, 688 575, 025 463, 136 290, 982 214, 637 467. 5	747,926 401,919 330,569 211,833 148,778 490.7 66 240,772 173,106 132,677 73,039 65,859 415.9	00 43,397 34,937 28,514 24,604 22,296 95.2	17 797, 805 438, 541 327, 239 189, 961 148, 266 722. 8	3 544, 242 173, 684 75, 550 10, 100 3, 164 28, 407. 5	30 167, 255 136, 701 112, 958 63, 048 38, 260 554. 1	75 648, 345 478, 983 329, 156 171, 127 101, 530 698. 9
2, 742, 697 2, 345, 949	178, 623 1, 849, 699 135, 910 117, 815	428, 164 378, 435	247, 161 412, 463	182, 380 371, 296 64, 781 41, 167	2, 703, 070 2, 639, 934	1,906,499 1,567,815	040, 023 782, 144 615, 494 569, 058 250, 982 216, 613	210, 529 982, 720	874, 595 744, 574 335, 934 238, 146	43, 515 43, 390	1, 210, 099 791, 517	898, 625 539, 093	250, 102 167, 180	806, 435 644, 875
Paper and printing	Il paper	ន្ទ	Liquors and beverages.	All except mineral and sods waters	Ohemicals and allied products 2, 7	Stone, clay, and glass products 1, <sup>9</sup>		Metals and metal products, other than iron and steel.	Metals, including smelting and refining	Tobacco manufactures	Vehicles for land transportation 6		Cars, steam and electric railroad, not including operations of railroad companies.	Railroad repair shops

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APPENDIX B-GENERAL TABLES

1 Based on figures shown in left-hand column for 1919.

2 The figures shown in the right-hand column for 1919 were used in calculating the percentages in this column.

3 Includes sewing-machine cases.

4 Does not include sewing-machine cases; see "Other iron and steel products," footnote 3.

1 "Corrieges and wasques."; "carriage and wagon materials."; "motor cycles and picycles and parts."; "carriages and sleds, children's."; "wheelberrows," included in total but not shown in detail.

Table 29.—Average Number of Wage Earners Employed in Selected Industries, by Census Years, and Per Cent of Increase, by Census Periods: 1899 to 1923

[Because of the omission of cartain minor industries and the transfer of a few others from one group to another, some of the group totals and some of the items given in this table differ somewhat from the corresponding totals and ifems as they appear in the census reports. The italic figures indicate that establishments with products valued at less than \$5,000 are included to avoid disclosing operations of individual establishments. As to the comparability of 1921 and 1923 figures with those of previous years, see general remarks preceding tables, par. 4, p. 19.

														.		
	:	4	VERAGE	AVERAGE NUMBER	OF WAGE	EARNERS	_			PER CE	CENT OF I	OF INCREASE	COR DE	OR DECREASE	Ĵ	
INDUSTRY	Excludio lishme valued	Excluding data for establishments with products valued at less than \$5,000	r estab- roducts m \$5,000	Inclu	ding data oducts va	for establ	Including data for establishments with products valued at \$500 or more		24-year period,			Intero	Intercensal period	riod		
	1923	1921	1919	1919	1914	1969	1904	1899	1923	1919- 1923 1	1921- 1923	1919- 1921 1	1914- 1919 2	1909- 1914	1904	1899- 1904
All industries.	8, 778, 156	778, 1566, 946, 570	9, 000, 059	9, 000, 059 9, 096, 372 7, 036, 247	7, 036, 247	6, 615, 046	5, 468, 383	4, 712, 763	88.2	્યું સં	26.4	-22.8	29.3	6.4	21.0	16.0
Food and kindred products	625, 524	568, 734	681, 831	684, 672	496, 234	411, 575	354,046	301,868	108.2	-8.2	10.0	-16.5	38.0	20.6	16.2	17.3
Slaughtering and meat packing. Bread and other backery products. Confectionery, chewing gum, and ice cream Plour-mill and gretin-mill priducts.	132, 792 162, 613 88, 669 35, 194	117,042 148,500 83,207 35,378	160, 989 140, 477 98, 239 45, 295	160, 996 141, 592 98, 838 45, 481	98, 832 124, 052 64, 034 39, 718	87, 813 100, 216 344, 638 39, 453	74, 134 81, 278 39, 239	68, 386 60, 192 32, 226	22.2 23.2 29.2 20.0	15.5 15.8 12.3 12.3	ည်း <u>ဝူ</u> ရာ	27.3 -15.3 -21.9	62.9 14.1 54.4 14.5	ដូឌ្ហង្ ឧ	85.83.83 70.80.40	8.4 35.0 34.9 21.4
tables— Sugar, beet, and cane sugar and its refining. Butter and cheese. Coffee and snice rosstine and erindine	සුසුසුය			21, 638 10, 540	20, 325 22, 882 17, 057	40, 492 20, 730 14, 267	39, 988 17, 512 12, 182	37,189 16,099 112,799 6,387	52.00	48,5,4	74.7 1.0.3 2.4.8	1133			18.4 17.1 27.7	7,894,8 5,887
g	8,723 6,573 9,144 15,356	9,462 6,131 7,946 13,061	13,675 7,794 12,364 16,555	13, 675 7, 795 12, 437 16, 621	6, 002 11, 156 12, 508	4, 164 9, 926 9, 550	8,445 8,445 9,511	(-) 5, 943 12, 598 7, 225		136.2 116.1 17.2 17.2	0.6 15.1 17.6	25.7.28 27.7.29 21.7.7.29	127.8 11.5 32.0	21.5 21.5 31.8 81.8	27.25 40.75 20.04	-21.3 -33.0 17.8
preducture preparations, such as cerears and breakfast foods	6, 410 6, 876	5, 749	7, 634	7, 634 9, 083	5,177 4,160	(7)	(3)	(7) 1, 314	423.2	-16.0 -24.3	3.4	-24.7 -26.8	47.5	47.2	35.2	59.1
Textiles and their products	1, 716, 646 1,	1, 510, 876 1,	, 608, 131 1,	, 611, 3091,	1, 507, 374	1, 445, 720	720 1, 163, 497 1,	1, 028, 706	67.1	6.7	13.6	-6.0	6.9	4.3	24.3	13.1
	478,810 194,820 133,195 194,552 125,234 194,244	418, 454 165, 206 144, 865 162, 364 121, 378 161, 880	437, 436 174, 588 164, 993 166, 757 126, 715 172, 459	437, 456 175, 270 165, 649 166, 787 126, 782 172, 572	386,806 173,747 168,907 158,692 108,170 150,520	371, 182 191, 183 153, 743 163, 192 99, 037 129, 275	310, 458 137, 190 115, 705 141, 998 79, 601 104, 092	297, 929 120, 927 83, 739 125, 901 65, 416 83, 691	60.7 61.7 59.6 54.6 91.5 132.2	19.3	14.1 17.9 19.8 19.8 20.0	41.51.1.4.0 8.48.08.11	13.1 -1.9 17.2 14.7	40.0.20.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.	19. 33.9. 14.9. 24.4. 24.9. 24.9. 24.9.	4.85.82.4.4. 24.88.24.4.4.
Dyeing and unishing textiles, excitative of that done in textile mills.	63, 414	51, 510	55, 914	55, 985	48, 467	44, 046	35, 565	29, 776	113.2	13, 4	23.1	-7.9	15,5	10.0	88	19.4

•	AI.	. 191419148 2		,						
63.00 11.1.00 14.5.00 15	24.4 -10.8 -37.1 16.6	13.6 15.1	52.9 19.8	26.4	6.85	43.6 34.0 48.8	28.1	L	26.2	32.9
32. 13. 7. 33. 33. 33. 33. 33. 33. 33. 33. 33	60.0 15.2 18.2	23.1 15.1	37.4 21.4 8.0	100.0	83.0 16.9	53.7 79.1 36.3	12.5 -15.2	24.2	35.3	15, 1
15.55 	41.1 16.7 -18.7 3.4	थ थ ७५	5.4 7.0 -8.0	12.0		15.8	118.5	-8.6	-12.3	-11.6
11-13.58 14-13.58 14-13.58	24.4 -10.2 9.9 49.4	4,82,5	H 3.0	39.0		25.4 25.6 25.6 25.6 25.6	6.8	7.	. 00 01 01	-10.3
6.6 -17.2 -25.0 -3.9	-22.1 -7.1 -16.3	88. 83.3 83.3 83.3	1       8 4 8 8 9 14 8 8	-16.0	-40.24 -27.69	41. 25.25 1.05.75 1.05.75	-34 0 42 4	-18.3	42:1 4:11	8.9
20.23.6 20.53.6 11.9 13.7	28.3 12.5 48.0		88.04.4% 00000		9008 8489	18.19.19.19.19.19.19.19.19.19.19.19.19.19.	6.7 4.4	32.8	85. 85. 81.83	32.0
7.7. 53.6 -7.0 -9.6 31.7	-12.4 -5.8 -3.6	9,000	17.0	8	4444	4 4 100. 4 20.0 4 4 4	-30.1	8.5	20.1	19.2
224.6 24.0 25.0 -11.4 194.8 42.4	31.2 31.2 -39.0	115.2	88.7 7.7	377.0	624.4 38.8	245.1 239.1 579.9	486.6	35.5	88.0 4	47.6
16, 871 28, 411 13, 114 18, 880 3, 922 36, 622	13, 187 12, 297 17, 135 745, 235	282, 940 350, 103	3,483 3,483 3,483	9,252	CO 44 48 7888	92,340 92,424 97,471	13, 365	671, 696	413, 257	12 73, 510
27, 500 83, 221 14, 614 22, 047 5, 722 36, 499	16, 399 10, 975 10, 786 868, 634	321, 291 348, 378	8,1,33 7,13 7,23 7,23 7,23	11,690	45.4.41 85.0.4.41 85.0.4.8	6,9,50 8,455 8,758	17, 121	734, 136	404, 563	13 97, 674
39, 201 134, 629 25, 064 7, 968 48, 513	15, 920 17, 564 12, 421 026, 553	395, 584 388, 911	38, 513 32, 118	23,378	14, 908 (9) 7, 465 16, 997	9,578 19,257 5,012	19,269	911, 593	547, 178 123, 426	u 112, 392
45, 274 31, 309 15, 769 21, 318 9, 358 51, 972	22, 459 20, 486 10, 100 061, 058 1,	106, 634	86,4,8 88,28 88,288	26,388	17, 391 16, 956 16, 561	(-) 11, 091 18, 479 7, 790 8, 322	3,643	833, 529	479, 786 127, 881	13 99, 408 tr
50, 850 22, 933 17, 622 18, 510 10, 756 39, 603	27, 830 18, 415 11, 103 585, 712 1. (	87, 742 572, 858	;0;3;4; 2 3;3;3; 3;3;3;3;3;3;3;3;3;3;3;3;3;3;3		36,036 19,544 3839	11,328 15,669 10,565 16,072	19, 230	839, 008	480, 945 138, 331	89, 135
50, 378 22, 933 17, 617 18, 497 10, 746 39, 245	27, 821 18, 391 11, 096 583, 928 11, 5	195	25,25,25 25,425 24,425 260 24,425 260	679	28,715 16,835 19,825	11, 328 13, 585 10, 555 16, 055	19, 226 10, 255	825, 884	469, 297 139, 950	S6, 382 13
53, 701 14, 593 13, 880 10, 324 45, 427	21, 679 17, 084 9, 285	363	25, 367 24, 307 24, 530 25, 530	808	16, 583 14, 9, 786 14, 345	12, 7, 67, 63, 63 12, 188 18, 188	12, 560 5, 911	690,629	364, 247	78, 033
246 217 382 722 548 672	25 45 15 15 15 15 15 15 15 15 15 15 15 15 15		8, 48, 373 8, 88, 100 100 100 100 100 100 100 100 100 100	豆	555 555 555 555 555 555 555 555 555 55	57,201 16,783 550	13, 435 9, 126	896, 236 6	495, 932 3 168, 089 <sup>II</sup> 1	103, 008
<b>4</b> 2,82,51, 1,12,			4994					- 86	=	
Millinery and lace goods, not elsewhere specified. Carpets and rugs, other than rag. Cordage and twine. Hats, fur-felt. Bags, other than paper, not including bags made in textile mills. Shirts.	gloves and mittens, other than those made in textile mills. Corsets. Collars and cuffs, men's.	Crude iron and steel and rolled products, including products not made in rollingmill establishments (though largely made therein), plus wire and wirework, not elsewhere specified.	Engines, steam, gas, and water. Machine tools. Tools, not elsewhere specified. Hardware hat eit firmayses. Stross and bat eit firmayses.	Steam fittings and steam and hot-water heating apparatus Locomotives, not made by railroad com-	panies. Textile machinery and parts. Cash registers and calculating machines. Cuthery and edge tools.		Sewing machines and attachments (including cases) Screws, machine	Lumber and its remanufactures	-    }	Lumber, plannig mills connected with sawmills. See footnotes at end of Table 31, p. 146.

Table 29.—Average Number of Wage Earners Employed in Selected Industries, by Census Years, and Per Cent of Industries, by Census Periods: 1899 to 1923—Continued

[See note at head of this table, p. 130]

V		*	AVERAGE NUMBER OF WAGE EARNERS	TOMBER	F WAGE	EARNERS				PER CEI	T OF D	PER CENT OF INCREASE OR DECREASE	OR DEC	REASE	<b>(</b>	
INDUSTRY	Excluding lishments valued at	xcluding data for establishments with products valued at less than \$5,000	r estab- roducts n \$5,000	Incluc	ling data oducts va	Including data for establishments with products valued at \$500 or more	ishments 00 or mor		24-year period,		,	Interce	Intercensal period	iod		1
	1923	1231	1913	1919	1914	1909	1904	1899	1923	1919- 1923 1	1921– 1923	1919-   1 1921 i   1	1914- 1 1919 2	1909- 1 1914 1	1904- 1	1994 1904
Lumber and its remanufactures—													-			İ
Boxes, wooden packing, except eigar boxes.	39, 154	32, 595	42, 325	42, 445	38, 548	35, 449	30, 329	21,999	78. 4	7.5	20.1	-23.0	10.1	8.7	16.9	37.9
Cooperage	11, 593	9,956	13,071	11,890	9,468	9,339	8, 468 21, 149	6,840	- 69.6 5.0	1 0 40	16.4 21.8	-16.2 -24.4	<del>७</del> %श	12.14	10.3	84. 8.4.
Leather and its finished products	344, 545	280, 071	348, 715	349, 362	307, 060	309, 766	264, 459	248, 628	38.8	-1.2	23.0	-19.7	13.8	i,	17.1	6.4
Boots and shoes, not including rubber boots and shoes.	225, 216	183, 502	210, 991	211,049	191, 555	185, 116	149, 924	141,830	58	6.7	83	-13.0	- 24	. 25	123	5.7
Leather, tanned, curried, and finished Saddlery and harness	59, 703 11, 441	48, 4,8955 71,89	72, 465 11, 024 11, 404	72, 476 10, 411 11, 470	55, 936 12, 969 9, 911	202 11,682 12,021	57, 239 15, 832 9, 991	52, 109 14, 384 6, 984	423.89 0 123.03	-17.6 -34.0	84.4 0 4 8	: : : : : : : : : : : : : : : : : : :	15.7	-10 -11 -10 -10 -10	œ성성 <u>도도</u> 요	9.8 30.5 5
Boot and shoe cut stock, exclusive of that produced in boot and shoe factories.	7, 133	7,049	9, 703	9, 715	7,819	6, 693	5, 936	6, 165		-28.5	es mi	-27.4	কা	16.8	12.8	-3.6
Paper and printing	526, 795	467, 072	502, 298	509, 875	452, 900	415, 990	351, 640	298, 744	79.1	4.9	12.8	-7.0	12.6	8.0	18.3	17.7
	115, 646 129, 890 120, 677	167, 534 121, 055 105, 294	115, 102 121, 255 113, 752	120, 381 123, 005 113, 759	114, 375 113, 121 88, 457	108, 672 108, 687 75, 978	96, 857 87, 746 65, 964	94, 604 67, 610 49, 646	27.8 94.8 143.1	7.1	7.5 7.3 14.6	-6.6 -7.4	12 8 5 13 8 14 8 15 13 13 13 13 13 13 13 13 13 13 13 13 13	16.2 16.4	12 2 23 9 15 2	20 55 48 6
Boxes, paper and other, not elsewhere specified.  Lithographing. Bookbinding and blank-book making. Paper goods, not elsewhere specified.	56,855 16,835 14,728	46, 245 13, 971 11, 465	55,778 15,611 14,122	55, 862 15, 618 20, 361 14, 135	45, 311 15, 171 21, 693 13, 495	39, 514 15, 073 19, 938 12, 983	32, 082 12, 614 17, 713 9, 842	27, 653 12, 994 15, 971 6, 117	105.8 25.6 21.3 141.0	ಕ್ಷಾ ಗಳಣ್ಣಕ್ಕ ರಾಬರಲ	23.0 18.8 27.9	-17.1 -19.5 -18.5 -18.5	8,0,0,4, 8,0,1,6,4,	14.7 7.7 8.8 9.9	25000 25000 25000	16.0 10.9 60.9

24.0	8 8 8 8	15.7	37.5	36.1 36.1 31.1	22.5 11.55 11.55	3888 4888 4888	23.1	21.1	12.1	3.0	8	22.1 12.0 7.9 30.3	35.9	
13,9	# 85 4-80	17.6	16.5	11.9.5 0.8.0	성 <b>없</b> 고	7.88 7.24	20.1	7.7	58.88 56.4	-7.7	25. 7	25.11.55 2.4.55 1.55	16.8	
13, 3	13.7	12.1	82.1 36.2		244 200 200 200 200 200 200 200 200 200		-2.4	8.1	16.3	136.5	5.0	85.50	13,1	
-37.1	44.83 8.53	42.5	132, 2	49.7 -2.0 37.5	84 74 88 1- 20 90	4.8.0; 0.1.4	-10.7	4.1	17.3	206.5	23.5	86.2 120 120 13.7 1.8	28.59.74 2.12.99.20	
-35.1	-45.8	-22.7	7.3	-20.4 -18.4 -37.2	- 16.1 - 45.7 - 45.7	1.51.6	-15.3	-29.4	9 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	-52.0	130.5	-6.55 -6.55 -6.65	88833 8040	
-11.4	8.83	22.9	5.6	11.2 21.0 10.2			37.7	34.0	25.85 3.85 3.85 4.	28. 4	39.3	201.21.21.21.22.22.23.23.23.23.23.23.23.23.23.23.23.	24 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	
-42,5	67.3	-5.0	13.3	-11.5 -1.3 -43.6	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	1.05.05. 0.00.02.02.02.02.02.02.02.02.02.02.02.02	16.6	1.5.4	83.52 8.55 8.50	-39.4	-3.2	13.7 7.0 7.0	641.65 641.65 641.65	
-42.2	-71.6 117.0	106.4	446.9 341.1	8,83.4 0.00 7	88.89 88.00 88.00	79.4 -17.6	50.3	38.9	201.24	317. 5	103.5	138.4 59.6 4.4	252.3	
55, 120	39, 459 8, 788	196, 538	12, 199	19, 672 22, 459 14, 008			231, 716	52, 818	105, 693 (i7) 18 41, 686	2,094	161, 463	27, 166 25, 495 32, 468 32, 315	36,880 (3,880 (3,880	
68, 338	48, 137 10, 879	227, 326	16, 770 22, 294	21, 453 30, 566 18, 369			285, 346	63, 969	118, 449 17, 478 51, 110	2, 157	198, 531	8888 81886 81888 8188 81888 81888 81888 81888 81888 81888 81888 81888 81888 81888 8188 81886 81888 81886 81886 81886 81886 81886 81886 81886 81886 81886 81886 81886 818	13, 560 16, 919 10, 724 (7)	
77,827	54, 579 13, 147	267, 261	13,929	23, 817 37, 215 20, 582			342, 827	68, 911	132, 696 26, 775 65, 603	1,990	249, 607	40, 618 31, 854 30, 347 28, 448	25, 413 19, 754 10, 684 (7)	
88, 152	62, 070 15, 506	299, 569	25, 366 35, 375	25, 261 25, 593 26, 596	22,083 22,835 20,107	14, 172 6, 306 34, 817	334, 612	74, 502	127, 444 27, 916 54, 891	4, 707	262, 154	40, 306 37, 318 38, 280 714	28, 731 22, 584 12, 390 4, 614	
55, 442	34, 259 17, 440	427, 008	58, 889 76, 210	39, 764 42, 908 35, 190			298, 659	77, 530	105, 353 25, 524 32, 768	14, 426	339, 469	75,051 41,787 30,871 27,640	34, 248 34, 386 15, 888 11, 402	
54, 493	34, 253 16, 532	425, 996	58, 887 76, 163	39, 334 42, 844 35, 151			296, 229	77,520	104, 724 25, 524 32, 309	14, 357	338, 383	74, 998 41, 787 30, 704 26, 956	34, 238 34, 372 15, 888 11, 402	
35, 374	18, 551 14, 651	329, 472	63, 189 49, 138	31, 316 34, 956 22, 071			250, 812	54, 748	30, 250 30, 231	6, 887	235, 170	39, 830 20, 214 25, 483 25, 172	24, 192 22, 711 12, 174 9, 584	
31, 338	11, 212 18, 062	404, 786	66, 717	34, 830 42, 289 19, 817			345, 370	73, 335	140, 129 35, 091 40, 056	8, 707	327, 537	64, 713 40, 691 26, 354 28, 852	35, 237 30, 511 11, 571 16, 288	
Liquors and beverages	Liquors, malt, including careal beverages Mineral and soda waters	Chemicals and allied products	Petroleum refining Chemicals and acids 4 Druggists' preparations, patent medicines	and	Fertilizers. Coke, not including gas-house coke.	Explosives. Turpentine and resin	Stone, clay, and glass products	Glass Brick, file, pottery, and other clay pred-	ucts <sup>19</sup> Cement Marble and stone work Minerals and earths ground or otherwise	treated	Nonferrous metals and their prod- ucts	Brass, bronze, and copper products. Smelting and refining. Jewelry. Copper, this and sheek-from work.	d 31.7	4

Table 29.—Average Number of Wage Earners Employed in Selected Industries, by Census Years, and Per Cent of Increase, by Census Periods: 1899 to 1923—Continued

[See note at head of this table, p. 130]

		4	VERAGE	AVERAGE NUMBER OF		WAGE EARNERS				PER CENT	T OF D	OF INCREASE	B B	DECREASE	ĵ.	
INDUSTRY	Excluding lishments valued at	xcluding data for establishments with products valued at less than \$5,000	r estab- products m \$5,000	Inclu	Including data for establishments with products valued at \$600 or more	for establ	ishments 300 or mor	with e	24-year period,			Interc	Intercensal period	riod		
	1923	1881	1919	1919	1914	1909	1904	1899	1923	1919- 1923 1	1921- 1923	1919-	1914- 1919 2	1909- 1914	1904 1969	1999-
Tobacco manufactures	146, 337	149, 985	154, 969	157, 097	178,872	166,810	159, 406	132, 526	11.9	-5.6	-2.4	-3.2	-12.2	27	4.6	20.3
Tobacco, cigars and cigarettes. Tobacco, chewing and smoking, and snuff.	130, 036 16, 301	133, 357 16, 628	136, 675 18, 294	138, 773 18, 324	152, 892 25, 980	139, 578 27, 232	135, 416 23, 990	103, 365 29, 161	27.7	10.9	-2.5	-2.4	-9.2	9.5	3.1	31.0
Vehicles for land transportation, including railroad repair shops	1,033,898	699, 635	955, 543	1, 011, 648	628, 978	507, 311	384, 547	314, 283	248.3	8.3	47.8	-26.8	60.8	24.0	31.9	22, 4
Automobiles Steem-railroad repair shops Automobile bodies and parts	241, 356 488, 505 163, 530	143, 658 385, 006 69, 119	210, 553 484, 380 132, 323	210, 559 484, 437 132, 556	79,307 339,518 47,785	51, 294 282, 174 24, 427	10,239 236,870 1,810	2, 241 173, 595 (7)	10,667.6	14.6 33.6	68.0 26.9 136.6	-31.8 -47.8	165. 5 42. 7 177. 4	20.3 20.3 95.6	401.0 10.1 249.6	356.9
Cars, steam-railroad, not including opera- tions of railroad companies	76,612	45, 121	52, 298	52, 298	₹, c	43, 086	34, 058	33, 453	129.0	46.5	69.8	-13.7		26.0	26.5	1.8
Blectric-railroad repair shops. Carriages and wagons, including repairs 11. Motor cycles, bicycles, and parts.	34, 925 7, 740 6, 576	33,279 7,797 4,308	31, 155 17, 583 10, 882	31, 272 18, 173 10, 886	26, 384 41, 304 6, 680	22, 418 52, 540 8 4, 437	3, 319 3, 319	7,025 58,425 17,525	399.1 -86.3 -62.5	12.1 56.0 39.6	62.6 62.6	6.8	85.85 1000	17.7 17.7 50.6	102.8 13.5 33.7	3.9 -81.1
Miscellaneous industries	852, 024	712, 777	712, 777 1, 224, 486 1, 227, 111	1, 227, 111	558, 755	482, 206	408, 477	326, 242	154.5	-30.4	19.5	-41.8	109.5	21.5	18.0	25.2
Shipbuilding, steel	51, 961	93, 323	344,011	344, 014	33, 508	28, 143	36, 742	30, 906	68.1	-84.9	-44.3	-72.9	926.7	19.1	-23.4	18.9
res, tubes, and rubber goods,	234, 892	161,204	212, 294	212, 374	118,078	87, 256	60, 466	42,013	459.1	10.6	45.7	24.1	79.9	35.3	44.3	43.9
and bose, rubber.  Agricultural implements.	108, 433 30, 962	79,385	125, 662 54, 294	125, 674 54, 368	55, 335 48, 459	31, 652 50, 551	24, 882 47, 394	22, 175 46, 582	389.1	-13.7 -43.0	38.6 2.0	-36.8 -44.1	127.1	\$4.4 1.38	27.2	12.2
9	10, 326 20, 491 26, 852 14, 439	13, 122 17, 938 24, 066 12, 052	43, 290 28, 714 13, 544	43, 432 28, 721 30, 247 13, 639	10, 981 9, 381 23, 011 9, 030	12,363 5,199 16,114 11,927	14,012 3,397 10,101 9,370	15,841 1,267 6,840 7,758	1,518.6 294.8 87.4	-76.1 -28.6 -10.2 6.6	-21.3 14.2 11.6 19.8	-69.7 -37.5 -19.5	295. 5 206. 2 31. 4 51. 0	-11.2 80.4 42.8 -24.3	53.0 53.0 59.5 27.3	-11.5 168.1 46.8 20.8

6,11 -7.3	31.9 17.6 41.7 47.5 40.2 23.	3.8 47.8	3.8 8.6 36.	5.8 -72.0	0.0	7.0 -26.1	45 44 5	2. 7	1 48.7 22.5 30.0	7 25 5
	.3 98.5 124.2	.3	7.6	0 117.	. 9	.3 -17.	3 45.	.5	. 9 80.	2
	40.2 -31.0 25.1 -63.3 30.8 -41.0		20.0 -6.4							
	1541 22,81				-2.5					
104.4	4,8;& 9,00,00 9,00,00		86.7					- ;		
14, 391	21,300 5,231 2,775	3,715	7,649	7, 593	5,718	2, 430	3, 032]	0	3,316	8,685
18,991	2,7,002 3,410 437	4,330	10,427	8,819	6,624	1,919	4, 295	0	4,330	10,567
17,612	25, 48, 49, 713 713 713 713	6, 398	11,322	2,465	£ .	1,419	6,206	5,540	5,305	16, 427
18, 687	23, 877 11, 493 7, 107	7, 919	11,747	4,088	7, 399	19, 340	7, 728	9,566	7,887	14.511
32, 875	25,25, 25,816 3816 3816	14, 723	12,637	8,871	13,961	16,072	11, 261	10, 432	14, 201	15.577
32,875	25,25,25 5,816 5,897	14, 685	12,549	8,055	13,874	15, (42	11, 247	10, 317	14, 086	15, 439
23,888	25,836 836 836 836 836	11, 120	11,748	808	11, 534	10, 38/	11,285	10,373	9,448	9.686
20, 435	22, 208 10, 470 12, 275	12,205	14, 103	7,000	13,522	77, 47	13, 314	12, 988	14, 484	11,860
s and shoes, rubber Ographic materials 23	ical instruments, pianos. nunition Uments, professional and scientific	reseas and bed springs, not elsewhere	contect	ug marenais	y arreles, not elsewnere specined	as materials.	onery goods, not eisewhere specified.	and advertising novelties.	and games	00S

See footnotes at end of Table 31, p. 146.

Table 30.—Amount of Primary Horsepower Installed in Selected Industries, by Census Years, and Per Cent of Ingrease, by Cable 30.—Amount of Primary of Ingrease, 1899 to 1923

[No data in regard to prime movers were collected for 1921. Because of the omission of certain minor industries and the transfer of a few others from one group to another, some of the items given in this table differ somewhat from the corresponding totals and items, as they appear in the census reports. As to the comparability of 1921 and 1923 and 1923 and 1923 and 1925 
	ĵ		1899- 1904	33.6	18.8	8.8.8.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4	25.0	28.1 18.2 18.2 37.4 22.6 155.8
	CREASE	riod	1904- 1909	38. 5	22.8	445443484448	31.1	1444888 12 12 12 12 12 12 12 12 12 12 12 12 12
	E OR DI	Intercensal period	1909- 1914	20.1	15.6	8884.458624484 808044484 8080487488	20.3	22.27.29.27.29.09.09.09.09.09.09.09.09.09.09.09.09.09
	INCREAS	Inter	1914- 1919 <sup>2</sup>	31. 5	28.9	4428 057. 8 1141 9000000000000000000000000000000000000	19.0	#8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
	PER CENT OF INCREASE OR DECREASE	٠	1919- 1923 1	12.8	3.0	a 5 4 5 4 5 4 5 4 5 4 5 6 4 6 6 6 6 6 6 6	16.4	11.24.1 14.1.25.0 14.1.25.0 17.0.25.
503	HEE.	24-year period,	1923	229.6	123.9	350, 5 761, 1 1, 282, 3 417, 0 417, 7 72, 7 69, 2 130, 1 150, 8 243, 6 401, 5 1, 613, 3	173.0	174 4 298.2 180.0 130.5 285.4 224.9 195.9
. 12% BILL 1		than	1899	10, 097, 893	1, 182, 902	85, 008 3, 12, 472 1, 12, 413 870, 713 1, 13, 906 1, 10, 270 1,	1, 395, 967	789, 858 13, 347 9, 962 234, 660 57, 397 57, 3±6 69, 238 1, 862
and 4, pp		power other than	1904	13, 487, 707	1, 405, 567	115, 956 27, 221 27, 231 27, 27, 27, 27, 27, 27, 27, 27, 27, 27,	1, 745, 309	979, 109 21, 106 14, 916 277, 366 71, 760 78, 769 4, 737,
ies, pairs. 4	OWER	r rented po	1909	8, 675, 376	1, 725, 985	25.25.25.25.25.25.25.25.25.25.25.25.25.2	2, 288, 031	1, 286, 105 30, 069 22, 294 348, 283 97, 947 103, 709 7, 918
centus tan	рагылаг новзероwев	Including data for rented electric	1914	22, 437, 072	1, 994, 983	255 101770 101770 10172 10172 10072 10172	2, 752, 054	1, 575, 853 35, 664 28, 396 381, 220 116, 924 125, 842 130, 172 12, 736
भारत द्रथान्या	PRIMAR	Includ	1919	9, 504, 792	2, 571, 157	356, 212 185, 050 185, 050 187, 050 111, 050 111	3, 274, 090	1, 849, 279 40, 577 32, 622 468, 480 176, 825 151, 601 160, 430
general re		ng data for ower other electric	1919	29, 327, 669 29, 504, 792 22, 437, 072 18, 675, 376 13, 487, 707	2, 564, 874	35,8 52,2 185,711 185,8 54,1 187,8 65,4 11,9 5,7 11,9 5,7	3, 258, 788	1, 845, 376 40, 198 32, 421 466, 219 173, 748 149, 438 159, 857 12, 410
a years, set		Excluding data for rented power other than electric	1923	33,094,228	2, 641, 916	382, 127 285, 186 285, 186 286, 696 7709, 886 28, 667 148, 666 27, 338 36, 744 17, 197 41, 197 41, 197	3, 794, 443	2, 162, 844 52, 642 27, 704 538, 465 206, 020 183, 675 204, 128 15, 661
ontry of the data less regules what takes of previous years, see general remails proceding taines, pairs. A and 4, pp. 124 and 126;		Industry		All industries	Food and kindred products.	Slaughtering and meat packing Bread and other bakery products Confectionery, clewring grun, and corearn Flour-mill and grain-mill products. Conning and preserving, fruits and vegetables. Sugar, beed, and cane sugar and its refining Briter and cheese. Coffee and spice, roasting and grinding. Condensed milk: Glucose and starch Comming and proserving, fish and oysters. Condensed milk: Checkles, preserves, and sauces. Frieldse, preserves, and sauces. Frieldse, preserves, and sauces. Friedse, preserves and sauces. Friedse, products.	Textiles and their products	Cotton groods and cotton lace Clothing, men's. Clothing, wenen's. Clothing, women's. Clothing, women's

Comprise and frame, there that note  and frame, and frame that notes and frame.  Bass, the failing products are already made in 18,400 14,500 14,500 14,500 15,000 15,000 15,000 14,500 11,500 15,000 1
duling bages made in [1, 585]  2, 5, 577  2, 10, 589  3, 577  4, 577  5, 579
1,5,458   9,758   9,758   9,559   9,
dring bags mode in 18, 1882 80, 577 80, 588 8470 85, 587 11, 246 11, 2
diding bags made in 18, 882 20, 576 19, 885, 170 18, 886 18, 472 18, 474 11, 18, 246 18, 472 18, 471 11, 18, 246 18, 472 18, 471 11, 18, 246 18, 472 18, 471 11, 18, 246 18, 472 18, 471 11, 18, 246 18, 472 1
ducts. See See See See See See See See See Se
13, 852   3, 77   20, 38   10, 382   10, 382   10, 382   10, 383
13, 822   20, 377   20, 388   170   43, 963   44, 289   48, 289   49, 289
uding bags made in rectile miles         38, 852         37, 583         38, 170         43, 963         38, 577         47, 289           uding bags made in rectile miles         13, 852         9, 076         14, 944         11, 617         12, 586           in textile miles         8, 613         9, 076         14, 944         11, 617         12, 686           in textile miles         8, 613         9, 076         1, 944         11, 617         12, 686           in textile miles         8, 613         8, 613         8, 613         8, 626         8, 636           products, including         8, 614, 585         8, 071, 629         8, 082, 692         5, 537, 822         4, 561, 285           products, including         8, 634, 585         8, 071, 629         8, 082, 692         5, 537, 822         4, 561, 285           ucts \$^2\$         10, 085         6, 006, 665         6, 006, 665         6, 006, 665         6, 532, 562         131           int text \$^3\$         11, 082         8, 071, 629         8, 082, 692         5, 537, 822         4, 561, 285           ot-water heating np         11, 214         10, 086         10, 088         4, 776, 454         660         10, 294           ot-water heating np         11, 214         11, 096
13, 488   37, 586   66, 643   10, 589   10, 589   10, 589   10, 589   10, 589   10, 589   10, 589   10, 589   10, 589   10, 589   10, 589   10, 589   10, 589   10, 599   10,
nding bags made in in toxille mills.         53,822         37,583         88,590         14,590         1
nding bags made in 13, 832 87, 588 10, 556 10, 4890 11, 890 11
nding bags made in 13, 14, 16, 17, 18, 18, 18, 18, 19, 18, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19
oduct in g control in the control in

lee footnotes at end of Table 31, p. 146.

Table 30.—Amount of Primary Horsepower Installed in Selected Industries, in Census Years, and Per Cent of Increase, 17 Cable 1923—Continued

[See note at head of this table, p. 136]

			PRIMAR	PRIMARY HORSEPOWER	)WEB			PER (	PER CENT OF INCREASE OR DECREASE	NCREASE	S OR DE		ĵ
INDUSTRY	Excluding data for rented power other than electric	data for ver other ectric	Includ	ing data fo	Including data for ranted power other than electric	wer other		24-year period.		Interc	Intercensal period	iod	
	1923	1919	1919	1914	1903	1904	1899	1899–1	1919- 1923 1	1914- 1919 ?	190 <del>9</del> - 1914	190 <del>4</del> 1909	1899- 1904
Leather and its finished products.	412, 998	382, 537	389, 130	317, 887	281, 117	203, 620	159,833	163.0	8.0	22.4	13.1	38.1	27.4
Boots and shoes, not including rubber boots and shoes. Leather, tanned, curried, and finished Saddleys and harcares. Trunks and valises.	128,550 230,187 7,761 7,269	217, 761 217, 761 8, 205 7, 696	218, 238 8, 238 7, 708	100, 232 172, 712 10, 397 7, 566	85, 896 148, 140 17, 234 6, 885	56, 220 117, 450 7, 370 5, 016	49, 444 88, 860 6, 018 3, 314	170.6 159.6 119.6	10.9	882 4408	16.7 16.6 39.7 9.9	23.25.25 27.33.25 27.33.25	55 8 8 6 7 5 4 5 5 4 5 5 4 5 5 4 5 5 4 5 5 4 5 5 4 5 5 4 5 5 5 4 5
boot and shoe factories	6,963	8,448	9,008	6,829	4, 769	4, 519	3, 202	131.7	-17.6	31.8	43.2	'nĠ	41.1
Paper and printing.	2, 742, 697	2, 345, 949	2, 348, 999	2, 051, 984	1, 674, 061	1,307,781	913, 445	200.7	16.9	14.5	22.6	88.0	48.2
Printing and publishing, newspaper and periodical. Printing and publishing, book and job Paper and wood pulp. Boxes, paper and other, not elsewhere specified Lithographing. Bookbinding and blank-book making. Paper goods, not elsewhere[specified.	203, 454 152, 363 2, 178, 623 61, 687 26, 869 15, 589 37, 840	194, 074 131, 476 1, 849, 699 54, 675 18, 550 11, 037 35, 369	194, 361 131, 961 1, 851, 014 54, 955 11, 123 11, 123 35, 538	182, 269 114, 233 1, 621, 154 38, 179 15, 178 11, 266 27, 366	173, 889 97, 546 1, 304, 265 23, 323 13, 132 10, 689 22, 436	94, 832 56, 188 1, 093, 708 15, 117 8, 195 5, 671 13, 071	70,089 36,973 762,118 9,286 7,063 7,855 7,855	190.6 313.6 118.1 186.1 567.6 234.8 234.0	4.7.7.7.44. 80888880	0 1 4 4 4 4 1 4 0 2 4 4 4 4 1 4	47148 837118 8759 800	88.63.498.47 4088910	86.84.85.95.86. 80.78.00.4
Liquors and beverages.	247, 161	412, 463	415, 361	525, 769	446, 450	347, 723	254, 615	-2.3	40.1	-21.0	17.8	28.4	36.6
Liquors, malt, including cereal beverages.	13 156, 511 64, 781	322, 130 41, 167	324, 431 41, 764	405, 884 25, 164	347, 726 19, 392	266, 159 12, 214	197, 901 8, 037	-20.3 717.9	-51.4	-20.1 66.0	16.7 29.8	30.6 58.8	34.5
Chemicals and allied products	2, 703, 070	2, 039, 934	2, 043, 525	1, 467, 831	1, 025, 676	729, 627	460, 790	487.6	32. 5	39.2	43.1	40.6	58.3
Petroleum refining Chemicals and edids 14 Chemicals and edids 14	391, 154 688, 458	238, 906 475, 840	238, 906 475, 919	128, 468 307, 312	90, 268 215, 151	46, 019 137, 810	36, 127 90, 429	982. 5 661. 6	63.7	86.0 54.9	42.3	96.2 56.1	27.4
	52,713	46, 998	47, 296	53,844	28, 981	19,874	17,404	205.0	12.2	39.7	16.8	45.8	14.2

129.92.72 22.72 22.73 27.73 25.73 7.73 7.73	52.1	42.7 42.7 5.9 6.5	35.0	80.0 80.0 80.0	10.4	4.5	44.6	76.7	67.7 51.0 21.8	-71.1
25.23.25.00 1.35.00 25.1.35.00 25	0.09	48.88.89.89 8.10.48 8.10.48	59.2	25.25.25.25.25.25.25.25.25.25.25.25.25.2	15.9	00 00 00	81.8	564, 2 74, 6 902, 4	74. 7 25.0	। जि
86.55.55.00 96.00 96.00 96.00 96.00 96.00	20.3	32.5 4.3 31.9 10.5	24.2	248844447 0080000	22.5	10.55	42.3	107.3 47.9 175.8	8 18 6 5 7 6 11	47. 6
11888981 118899844 1189984 118998	60 10	28.1.8.8 1.8.0 4.	71.9	118.5 118.5 12.4 13.0 14.8 14.8 14.7 14.7 14.7	\$\frac{4}{2}	78.3	63.7	173.7 37.0 274.0	44 84 87 87 8	69. 2
20.2 20.2 20.2 20.2 20.2 20.2 20.2 20.2	21.6	32.2.3.4. 0.7.7.0.8.	क्ष	は設工仕談覧な <b>ぬ</b> 800000464	, ,	1-1-1 0-4-	40.4	42.52 8.02 8.02	52.1 15.9	os ci
1,028.0 207.9 277.0 318.4 856.6 327.4 83.5	274.3	354.5 109.9 670.0 157.9 353.7	467. 5	547.7 471.9 174.8 180.1 312.8 319.7	95.2	445 6 5,0	759, 2	3,912.0	619.0 868.3 50.8	
31, 797 86, 302 30, 443 38, 680 34, 767 11, 514 19, 195	510, 013	252, 943 252, 502 (°) 18 83, 119 18, 404	214, 637	47, 257 97, 750 97, 750 6, 656 18, 597 (7) 1, 762	22, 296	4,563	249, 796	3, 164 35, 087 3	33, 395 6, 443 51, 755	
73, 101 41, 288 47, 989 66, 288 20, 228 20, 228 20, 228 1, 175	775, 718	91,476 360,280 149,604 102,887 17,325	290, 932	69, 494 137, 706 11, 195 10, 088 8, 946 (7), 172	24,604	6,069	361, 088	7,624 167,973 2,485	3, 154 63, 154	
222 222 222 222 223 224 224 225 225 225 225 225 225 225 225	1, 240, 908	123, 132 451, 186 371, 799 187, 686 20, 920	463, 136	106, 120 217, 242 11, 204 13, 847 15, 630 15, 630 649	28, 514	9, 261	656, 394	50, 641 293, 361 24, 909	97, 797 (9) 35, 794 78, 785	1 885 to 22
213, 370 278, 585 70, 611 117, 127 85, 778 45, 778 2, 478	1, 490, 975	163, 139 470, 758 490, 402 207, 461 44, 069	575, 025	122, 700 271, 494 15, 666 15, 666 19, 139 16, 139 12, 338	34,937	13, 664 21, 273	933, 904	104, 983 433, 994 68, 701	126,687 16,380 44,989 74,334	8, (38)
238, 467 340, 165 340, 165 125, 939 224, 879 33, 710 51, 635 2, 363	1, 569, 719	207, 430 439, 194 488, 808 170, 132 127, 074	988, 688	265, 688 457, 400 16, 389 24, 144 30, 499 30, 280 30, 280	43, 397	24, 504 18, 893	1, 528, 841	287, 323 594, 515 256, 919	157, 865 82, 691 40, 966	14, 800 14, 800
238,454 339,503 84,827 125,839 224,879 33,700 2,276	1, 567, 815	207, 338 438, 555 488, 808 169, 177 127, 064	982, 720	24, 24, 33 15, 26, 33 16, 26, 33 16, 26, 26, 26, 26, 26, 26, 26, 26, 26, 2	43,390	24, 497 18, 893	1, 436, 392	282, 323 591, 070 256, 770	157, 790 53, 805 40, 316	14, 420]
358, 605 265, 235 1114, 281 161, 774 332, 560 74, 830 1, 932	1, 906, 499	240, 528 529, 440 642, 840 213, 133	1, 210, 529	305, 839 14, 84, 243 14, 85, 14, 85 12, 252 13, 396 17, 88	43, 515	24, 894 18, 621	2,016,534	435, 545 744, 065 463, 080	240, 074 (a) 62, 370 25, 054	
Gas, illuminating and heating Oils. Paint and varnish Fertilizers. Coke, not including gas-house coke. Soop. Explosives. Turpentine and rosin.	Stone, clay, and glass products	Glass. Brick, tile, pottery, and other clay products <sup>16</sup> Cement. Marble and stone work. Minerals and earths, ground or otherwise treated.	Nonferrous metals and their products.	Brass, bromse, and copper products Smelting and refining Jewell; Gropper, In, and sheet-from work Stamped and enameled ware, not elsewhere specified Watches Aluminum manufactures	Tobacco manufactures	Tobacco, cigars and cigareties Tobacco, chewing and smoking, and smuff	Vehicles for land transportation, including rail- road repair shops.	Automobiles Steam-railroad repair shops Automobile bodies and parte Care steam-reilroad and including connections of reil	apairs 11	See footnotes at end of Table 31, p. 146.

Table 30.—Amount of Primary Horsepower Installed in Selected Industries, in Census Years, and Per Cent of Increase, as Selected of Continued by Continued of Cont

[See note at head of this table, p. 136]

			PRIMAI	PRIMARY HORSEPOWER	OWER			PER (	CENT OF 1	INCREASE	80	DECREASE (	I
INDUSTRY	Excluding data for rented power other than electric	data for wer other lectric	Includ	Including data for rented electric	r rented p electric	power other than	than	24-year		Interc	Intercensal period	iod	
	1923	1919	1919	1914	1909	1904	1899	1899- 1923	1919- 1923 1	1914- 1919 2	1909-	1904	1589- 1904
Miscellaneous industries.	3, 115, 689	2, 823, 846	2, 831, 252	1, 568, 020	1,032,238	739, 042	424, 023	636.5	10.3	80.6	51.9	39.7	74.3
Shipbuilding, steel Meckrical machinery, apparatus, and supplies Rubber tires, fithes, and rubber mods, not cleawhen	280, 373 480, 268	475, 567 438, 082	475, 567 438, 839	83, 706 227, 731	57, 697 158, 768	51,029 105,376	38, 862 43, 674	622. 0 1, 001. 3	9.6	468.1 92.7	43.4	13.1	31, 3
d hose,	549, 450 121, 975 37, 339	379, 873 128, 249 77, 704	380, 487 128, 249 78, 144	174, 922 121, 428 31, 627	96, 533 100, 601 30, 366	60, 724 89, 738 27, 098	46, 152 70, 646 22, 935	1, 092, 1 72, 6 63, 9	44 6 51 9	5. 6 5. 6 147. 1	81.2 20.7 4.2	59.0 13.1 13.1	37.6 27.0 18.2
r nomegraphs and graphophones. Ice, manufactured. Fur goods.	845, 180 4, 299	569, 925	40, 168 572, 970 5, 327	461,988	317, 789	1914 1988 1988	100,421	3,745 745,95 9,925	 (ထို့င္ (ထို့င္	왕 - 0 œ	88,74,8 12 41.0		88.5 40.0
Books and shoes, rubber. Photographic materials. Musical instruments vious	50, 184 26, 267	28, 40 27, 77 20, 77 20	4,84,84 17,85 17,8	16, 482	25, 93, 8, 93, 8		25, 017 3, 412	1,373,6	   54.47   02.42	100.44	4.8; 9.00		24.85 8 8 8 8 8
Armunition Instruments, professional and scientific	16,203	39,128 12,981	38,55 28,55	1,0,135	10,4,7 10,317 10,317	2, 55, 65 2, 056 2, 110	2,4,4,6 2,86 1,198	677.3 557.6	48.4; 48.8;	3.4 <u>2</u> .99	10.0 10.0 10.0 10.0		- 169.1 14.6
Mattresses and bed springs, not elsewhere specified. Roofing materials, elsewhere specified	30, 324 89, 598 80, 598	39,387 8,247 8,477	23, 469 29, 327	20,767	17,689	, E.	7, 940 18, 217 9, 506	281.5 117.8	185 456 456	38.00	8,7; \$; 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	35.55 55.55	26.4 26.4 27.4
	197, 290	191, 471 8, 342 7, 714	191,543 8,342 7,730	138,026	6,757	9,4,6,6 396 986	34, 397 1, 706	473. 6 576. 3	0 6 7	88 84 98 89 98 89	2, 297, 5 -16, 6	101.5	90.1 99.1
Toys and games Buttons	16,111	15, 453	14, 449	6,789 14,398	12,831	4, 757 6, 982	3, 155 4, 165	411.6	11.7	112.5	12.21 12.21	23.50	50.8

See footnotes at end of Table 31, p. 146.

Table 31.—Value Addrd by Manufacture in Selected Industries, by Census Years, and Per Cent of Increase, by Crisus Periods: 1899 to 1923

[Because of the omission of certain minor industries and the transfer of a few others from one group to another, some of the group totals and some of the items given in this consumentat from the corresponding totals and items as they appear in the census reports. The italie figures include establishments with products valued at less than \$5,000 to avoid disclosing operations of individual establishments. As to the comparability of 1921 and 1923 figures with those of previous years, see general remarks preceding tables, par. 4, p. 123]

	PΑ	LUE ADDE	D BY MA	NUFACTUR	VALITE ADDED BY MANUFACTURE (IN THOUSANDS OF DOLLARS)	UBANDB O	P DOLLAR	38)		PER CENT OF INCREASE OR DECREASE (-)	T 08 II	CEEASE	OR DE	CREASE	1	1
NDUSTRY	Excludio lishme valued	Excluding data for establishments with products valued at less than \$5,000	r estab- roducts in \$5,000	Inclu	Including data for establishments with products valued at \$500 or more	for establ	ishments 300 or mor	with	24-year period,			Interce	Intercensal period	iod		
	1923	1921	1919	1919	1914	1909	1904	1899	222	1923 1	1921-	1919-	1914-	1969-	1984	1964
All industries	25,850,300	18,332,227	24,809,093	25,041,698	25,850,300 18,333,227 24,809,093 25,041,698 9, 878, 346 8,	529, 261	6, 293, 6954,	4, 831, 075	440,1	2,	41.0	-26.1	153.5	15.8	35.5	30.3
Food and kindred products.	2, 282, 771	771 1, 911, 410 2, 319, 174	2, 319, 174	2, 327, 344	988, 198	749, 815	539, 435	416, 341	450.1	-1.6	19.4	-17.6	135.5	31.8	39.0	29.6
Slaughtering and meat packing. Bread and other bakery products. Contectionery, chewing rum, and ise cream Flour-mill and grain-mill products. Caluning and preserving, fruits and vege.		332, 744 491, 358 250, 975 185, 930	463, 338 435, 231 292, 821 252, 447	463, 361 438, 657 294, 438 253, 253	210, 302 217, 636 93, 041 125, 410	164, 106 158, 831 153, 645 116, 608	108, 058 113, 594 138, 277 93, 062	101, 682 80, 317 725, 230 73, 279	302.8 588.2 1, 107.3 122.6	26.0 26.0 35.6	2502	252 254 26.88 26.88	120.3 101.6 216.5 101.9	87.558	12.53.24 2.03.24 2.03.04	6.3 51.4 57.0
tables. Sugar, beet, and cane sugar and its refining. Butter and cheese. Coffee and spice, roasting and grinding. Condensed with	151, 870 98, 073 114, 409 72, 684	58, 524 59, 984 59, 984	135, 967 144, 535 89, 719 60, 844	136, 614 144, 568 82, 847 60, 893	45, 25, 25, 25, 25, 25, 25, 25, 25, 25, 2	28, 524 27, 524 27, 328	26, 560 21, 111 18, 341	19, 044 20, 846 4 21, 942 3 14, 414	701 370.9 404.9	15821.7 19531.7	86.55 21.45.0 80.00 80 80.00 80 80 80 80 80 80 80 80 80 80 80 80 8	1,256.0 1,772	197. 7 177. 0 131. 3	80128	තුන් <del>4</del> ආ තනපාට	30.50 103.50 17.20 12.20
ਕੂ ਫ	42,079 19,536 84,478		28, 925 28, 194 52, 568	25, 927 27, 286 27, 748	ಕ್ಷವನ್ನ	10,846	7,131	9,347 9,021 9,602	349.9 179.1 574.0		2000	146.45	350.8 107.5 109.0	24.42 <b>8</b> 2.207.20	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	23.7 9.6 36.0
Diceasing preparations, such as cerears and breakfast foods.  Chooslate and coose products.	48, 287 34, 689	43, 482 32, 515	41,385	41,385	23,218	6,867	(7) 4, 667	2,789	1,143.8	18.7	11.11	-13,3	234.0	63.5	47.1	67.3
Textiles and their products.	4,070,582	3, 156, 921	3, 828, 934 3,	3, 834, 024 1,	1, 432, 4951,	1, 323, 677	908, 487	739, 891	450.8	<b>8</b>	88.0	-17.6	167.6	63 65	45.7	8.23
Cotton goods and cotton lace. Clothing, men's. Clothing, women's. Woolen and worsted goods Silk goods, including throwsters.	774, 915 593, 911 597, 123 439, 827 282, 284	585, 439 487, 231 454, 933 355, 538 245, 860	863, 789 556, 156 527, 184 399, 791 299, 890	863, 807 557, 234 528, 136 399, 839 300, 001	252, 496 228, 179 221, 543 132, 987 109, 569,	251, 204 233, 154 175, 964 146, 305 89, 145	160, 403 170, 004 116, 942 110, 453 57, 427	159, 365 131, 498 74, 635 90, 658 44, 849	386.2 352.6 701.7 385.1	10, 3 13, 3 10, 0	<b>改革発送社</b> 40年128	132 4 11.1 18.1 18.0	242 144 200.7 173.8	12.9.25 10.00 10.0	8225238 8225238	25.25 27.25 28.05 28.05 29.05
See footnotes at end of table, p. 146.			٠.							:						

Table 31.—Value Added by Manufacture in Selected Industries, in Census Years, and Per Cent of Increase, by Carlo 31.—Value Added by Census Periods: 1899 to 1923—Continued

[See note at head of this table, p. 141]

	TVA.	VALUE ADDED BY MANUFACTURE	D BY MA	NUFACTUR		(IN THOUSANDS OF DOLLARS)	F DOLLA	(83		PER CENT OF INCREASE	T OF D	NCREASE	E OR DE	OR DECREASE	ĵ	
TND USTRA	Excluding lishments valued at	xcluding data for establishments with products valued at less than \$5,000	r estab- roducts n \$5,000	Inclu	ding data oducts ve	Including data for establishments with products valued at \$500 or more	ishments 300 or mor	with	24-year period,			Interce	Intercensal period	riod		
	1923	1921	1919	1919	1914	1909	1904	1888	1923 1923	1919-	1921- 1923	1919-	1914- 1919 1	1969-	1904-1	1904
Textiles and their products—Contd. Knit goods	364, 157	273, 616	285, 823	286, 044	112, 226	89, 902	60, 287	44, 639	716.4	27. 4	33, 1	4.3	154.9	24.8	49, 1	35.1
Dyeing and intisting textues, exclusive of that done in textile miles.	178,660	135, 552	149, 158	149, 225	52, 587	48, 295	31, 229	27,005	562.0	19.8	31.8	-9.1	183.8	8.9	54.6	15.6
Alministy and lace goods, not essevilled specified. Carpets and rugs, other than rag. Ordage and twine. Here fur.oit	147, 597 102, 008 34, 641	137, 507 53, 762 28, 875	121, 855 56, 136 43, 658	122, 796 56, 136 43, 661	56, 484 26, 848 16, 156	40,854 31,625 12,627	24, 519 23, 638 11, 921	13, 815 20, 963 11, 218	976.5 386.6 369.8	188.2	20.03	21 4 23 2 2 4 2 8	109.1	27.38	නිසිය. වනව	77.5 6.3
Bags, other than paper, not including bags made in textile mills Shirts.	23,454 101,977	1, 15,8	38, 022	38, 54, 38, 041 38, 239	20, 40s 12, 028 45, 150	g & E	25, 641 25, 332	3, 213 24, 171	. 83 33,00 33,00 33,00 33,00	38.3	10 10 4H	1.38.0 1.57.9 3.4	108.7 216.3 73.3	-20. 5 20. 2 20. 7	28.3 7.7.7	44.5 106.7 4.8
Furnishing goods, men's, including suspenders, garters, and elastic woven goods, and cloth gloves and mittens, other than those made in textile mile.		GE GE		9		1						- 6				) 
Corsets.	39, 527 24, 286	36, 743 17, 197	38, 47, 28, 687	28,58 28,738 131	20, 20, 11, 964	17, 617	14, 519 8, 727 7, 947	10, 919 8, 094 9, 757	390, 5 149, 1	-17.1 8.0 -13.6	47.14 20.8	8. % 8. %	164,5 75,2 135,1	19.0	&면4 <sup>60 4</sup>	-18.6 -18.6
Iron and steel and their products	4, 661, 576 2,	598, 011	4, 582, 809	4, 587, 749 1,	1, 460, 830 1,	1, 364, 529 1, (	1, 008, 983	818, 528	470.0	1.7	79.4	-43, 3	214.1	7.1	35.2	23.3
Crude iron and steel and rolled products, including products not made in rollingmal establishments (though largely made therein) plus who and wirework, not elsewhere specified.  Founday and machine-shop products " Erefines, sand water.		836,7151, 912,1631, 87,801	38,8,7	1, 807, 553 1, 571, 606 2, 247, 234	555, 030 508, 423 40, 661	547, 911 516, 000	378, 715 407, 820 (9)	348, 149 358, 326	430.6 515.8	2, 4, ¢		153.7	225.7	1.3	44.85 0.05	8.8 32.7
Machine tools. Tools, not elsewhere specified. Hardware. Stoves and hot-air furnaces.	96, 229 73, 952 129, 767 102, 404	43, 751 44, 974 76, 944 60, 573	153, 335 97, 998 96, 899 90, 899	(e) 98, 405 95, 991 90, 915	(5),44 4,246 139	(e) 19, 332 39, 397 42, 469	(5) 13, 157 29, 139 35, 925	21,8 242 1242	822.9 511.4	18:59 18:29 18:39	119.9 77.8 68.7 69.1	1.154.1-1-1.15.1-1-1.15.1-1-1.15.1-1-1.15.1-1-1.15.1-1-1.15.1-1-1.15.1-1-1.15.1-1-1.15.1-1-1.15.1-1-1.15.1-1.15	354.4 116.9 106.0	21 21 sq 0 80 0	35.2 18.2 18.2	37.2
beam numes and steam and not-water heating apparatus	138, 657	77, 154	88, 253	88, 269	37, 001	31, 550	14, 486	11,865	11, 865 1, 068. 7	57.1	79. 7	-12.6	138.6	17.3	117.8	22.1

8.88	7.08 89.83 89.83 7.83	32.4 39.5	33.4	37.6	52.9	53. 6 12. 5	31.7	35.9 25.3 31.2 47.3	11.9	40.0	36.4	29.8 17.7 22.9 35.2	
14.1 14.1 14.1	78.4 96.0 79.0	00 ಣ ಯ ಚ	24.0	8,8, 2,4,	25.0	16.7	32. 2	20.5 15.1 5.1 5.1 5.1	27.1	32.2	25.55 25.05 25.00	42.4 25.0 79.8	
31.6	21.5 80.3 60.3	126.0		11.2	16.8	4.2	8.0	2.4.2.4. 9.9.5.1.	10.0	83	18.8 21.7 16.4	85588 8688	
323.1 173.9 171.7	92.6 177.3 234.3	96.8	104.2	111.5	122	150.9 74.0	155.1	129.8 240.0 52.7 139.0	88.	94.	70.0 83.3 169.5	173.9 80.9 102.4	
-44 4 10,0 -39,3 -27,0	11.2	- 38.3 - 56.9	-26. 5	14.5	A. 5.5.	15.2	-31.8	- 11.5 - 58.5 - 25.8 - 25.8	-42.2	8.1	28.7 90.9	81.7.4.8. 8.1.4.8.	
87.8 87.73 61.0	24.28 194.33 35.53	36.4	56.2	75.6 46.4	88.0 2.0	81.28 70.44	30.7	21.58 22.22 23.22	31.4	22. 5	8 6 6 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	88844 5000	
88 6 13.7 17.5	5.3 151.8 102.3 18.6	-15.9 -6.3	14.8	38.5	45.8	3.9	-10.9	2.7.44 2.1.3 2.1.3	-24.1	32.4	48.8 36.4 4.1	23.8 27.5 27.5 27.5 27.5	
1,637.6	596.8 985.8 2,949.1	141. 8 1, 758. 4	272.8	500.7	342. 8 348. 7	386.0 53.6	330.8	423. 3 241. 1 31. 7 368. 7	280.9	474.2	437.2 516.0 487.5	673. 1 323. 5 316. 8 607. 2	
© 4,8 4,77,8 4,69,6	(3,7,530 (3,481 (3,078	11, 666	526, 602	312, 425 70, 386	13 68, 217 15, 368	7,007	185, 415	90, 337 49, G38 13, 932 6, 474	5,443	393, 342	172, 769 85, 606 56, 796	15, 551 14, 355 13, 088 0, 965	
31, 849 (9) 8, 359 12, 587	8,770 11,618 3,937 (3)	15, 443	702, 248	396, 069 96, 827	23, 569	10, 765	244, 170	122, 744 61, 442 18, 281 9, 536	6,089	550, 802	238, 947 130, 037 77, 463	20, 181 16, 895 16, 684 9, 415	
16, 522 (9) 20, 156 15, 654	15,642 7,047 (e)	16,808	870, 441	487, 828 125, 334	12 131, 318 1 28, 864	12, 562	322, 839	165, 163 78, 595 21, 047 13, 399	7,741	728,047	308, 730 173, 276 102, 214	28, 734 22, 178 20, 112 16, 924	
19, 828 (6) 26, 528 17, 355	18,999 11,296 14,736 14,736	17, 038 4, 190	837, 361	433, 358 144, 220	128,351 23,727	13,068 17,073	351, 459	191, 403 82, 957 20, 473 12, 847	8, 515	875, 330	366, 824 210, 878 118, 966	88.8.8.8 81.1.8 81.7.5 81.0.0 8.0 8	
83, 894 (2) 549 47, 153 42, 153	46,23,258 49,332 49,332 49,332	33, 536 25, 031	710, 074	916, 511 309, 833	74, 872	32, 782 29, 715	896, 424	439, 772 282, 070 31, 270 30, 710	27,316	, 705, 866	623, 768 386, 596 320, 577	105, 284 45, 433 42, 786 41, 990	
83,894 72,882 47,078		33, 520 25, 021	, 688, 739 1,	898, 628 313, 456	199, 978	32, 741 29, 433	894, 622	439, 689 282, 025 30, 061 30, 546	27, 294	, 681, 498 1,	608, 281 379, 661 320, 574	105, 200 45, 347 42, 249 41, 965	
84,4,4,0 118,88,6 188,68	43, 435 43, 435 43, 158	20, 671	,240,7471,	524, 574 296, 518 <sup>11</sup>	190, 567 49, 318	27, 779 16, 047	609, 788	389, 044 105, 640 22, 666	15, 769	,817,4231,	752, 586 473, 936 221, 444	85, 980 48, 950 34, 257	
91, 132 90, 956 82, 623 55, 317	88,888 88,521 88,280 86,520 865	88, 83, 894 443	1, 938, 264 1,	921, 398	291, 610 68, 778	34, 017 24, 778	796, 740	472, 621 167, 148 17, 653 30, 186	20,728	2, 226, 9261,	905, 022 518, 024 333, 620	120, 129 60, 662 53, 886 49, 204	
Locomotives, not made by railroad companies.  Tottlie machinery and parts. Cash registers and each still machines. Cuthery and edge tools. Ordnance and accessories.	Typewriters and supplies Plumbers supplies, not elsewhere specified. Sloves, gas and oil. Pumps steam and other power in Sewriter methylines and affredments fin.		Lumber and its remanufactures.	118	cluding planing mills connected with sawmills.  Boxes, wooden packing except eiger boxes. Coffins. Inrial cases and underlebrase.	goods. Cooperage	Leather and its finished products	Boots and shoes, not including rubber boots and shoes. Leather, tarned, curried, and finished. Saddlery and harness. Trunks and vallers.	produced in boot and shoe factories.	Paper and printing	Printing and publishing, newspaper and particular Printing and publishing, book and job. Paper and wood pully. Horse races and other not alsowhere.	specified Lithographing Bottoming and blank-book matring Paper goods, not elsewhere specified See footnotes at end of table, p. 146.	

Table 31.—Value Added by Manufacture in Selected Industries, in Census Years, and Per Cent of Increases, by Census Periods: 1899 to 1923—Continued

[See note at head of this table, p. 141]

1		1899-	25.0	20.6	42.3	69.0	38.6 59.6 4	44.00°	2888 41-04	44.5	34.3	41.1	38.4
()		1969	35.1	33.5	34.9	5.9	30.74	1484 1484	38.9 1.89.9 1.89.0	29.8	12.2	91.8	9 6
PER CENT OF INCREASE OR DECREASE	eriod	1969	7.7	12.3	19.6	88. 5 32. 7	5;8;= 4.4%	1818. 1040	1, 1, 8, 24, 0 10, 80, 54,	7.9	28.5	47.0	- 18 - 12 - 12
SE OR I	Intercensal period	1914- 1919 2	-27.5	-8.7 111.1	161.5	441. 0 301. 5	113 190 190	1118	15.94 15.04 15.04	80.3	122.0	95.2 4.2	15.0
INCREA	Inter	1919- 1921 1	64.4	-76.5 15.4	-21.1	-10.2 -31.5	성덕분		448.8	-11.2	-25.5	9.5	ı
NT OF		1921- 1923	11.8	-26.5	36.6	54.3	8,83,8	55.55	444;8; 4000	62.7	53.9	61.3	
PER CE		1919- 1923 1	-60.2	-82.7 24.1	7.	4-2	18.6 8.8 8.8	825	133.6 132.7 12.7	44.6	14.7	59.8 70.6	
	24-year period,	1923	-47.5	463.3	546.6	1, 648. 8 1, 175. 0	354. 5 369. 9 205. 6	25.25 25.12 25.42 25.43	412 423 85.9	427.6	393.0	331.6	201. 6 964. 7
(6)	ith	1899	289, 083	185,317 14,704	310, 235	21, 070 25, 629	57,835 55,112 24,312	24, 824 15, 699 15, 919	15 20, 088 6, 790 14, 159	185, 513	39, 809	te:	2, 071
F DOLLAR	Inding data for establishments with products valued at \$500 or more	1904	361, 405	223, 436 20, 249	441, 601	35, 618 37, 339	80,063 87,965 797	31,014	20,24 20,339 162 20,162	268, 081	53, 462	102,445	570
USANDS O	for establi fued at \$5	1909	488, 183	278, 134 27, 042	595, 555	37, 725 58, 093	. 94, 118 114, 386 43, 923	45, 874 34, 438 31, 672	39, 179 17, 328 20, 384	347, 945	59, 976	123, 248 33, 861	2, 639
онт иі) з	Including data for products value	1914	525, 891	312, 425	712, 289	77, 084	103, 897 143, 459 48, 848	57, 159 45, 241 30, 137	39, 075 15, 806 15, 454	375, 427	77, 068	118, 753 49, 769	5,746
UFACTURI	Includ	\$161	381, 119	285, 112 66, 743	,862,624	384, 625 309, 456	221, 646 171, 728 145, 117	123, 234 96, 103 92, 249	78, 221 46, 564 39, 121	676, 958	171, 104	196, 148 95, 755	29, 797
BY MAN	estab- roducts n \$5,000	1918	378, 539	285,098 64,382	,860,0071,	384, 623 309, 416	220, 095 171, 690 145, 050	123, 168 96, 082 92, 243	78, 159 46, 564 38, 937	672, 206	171, 104	195, 421 95, 755	29, 726
VALUE ADDED BY MANUFACTURE (IN THOUSANDS OF DOLLARS)	Excluding data for establishments with products valued at less than \$5,000	1921	134, 657	67, 034 54, 492	466, 633 1,	345, 270 211, 959	201, 260 208, 943 54, 539	102, 912 35, 397 52, 522	89,839 17,102	597, 125	127, 435	101, 267	14,652
VAI	Excluding lishments valued at	1923	150, 537	13 49, 238 79, 919	2, 002, 782 1,	368, 647 326, 679	261, 083 258, 977 74, 289	155, 180 55, 109 162, 893	35, 533 26, 194	971, 751	196, 183	312, 352 163, 332 194, 655	
	NDUSTRY		Liquors and beverages	Liquors, malt, including cereal beverages Mineral and soda waters	Chemicals and allied products	medic	and compounds, periumery and cos- metics, and drug grinding.  Gas, illuminating and heating.	Fathly and Variand. Fertilizers Coke, not including gas-house coke	Soap Explosives Turpentine and rosin	Stone, clay, and glass products	Glass Brick, tile, pottery, and other clay prod-	1 1	Minerals and earths, ground or otherwise treated

					,										
8,	33.8 21.6 1.4	58.5	20.0	30.4	30.1	46.0	23.5	83.7	44.9	15.1	72.1	4.1.0 8.1.1.0	328.5	104.0 87.0 80.08	100.4 15.6
32.5	88.65.93 20.03 20.03	84 86 86	16.8	18.1	54.4	474.4 29.9 1,560.4	26.6	15.4.25 1.4.25 1.4.25	36.9	-9.5	52, 4	82.0 35.0	4.41	22.8	25.85. <u>0.75</u>
13.0	4.8.0	21.17	18.2	20.1	54.5	31.1	39.1	101.3	34.4	32.4	60.0	99 12 13 13 13 13 13 13 13 13 13 13 13 13 13	132.6	4, 8, 80 8, 10, 80 8, 11, 80	[2] [ 4년
116.0	280.0 128.55.0 17.59.0	139.5 144.9 121.0 402.4	87.0	10.5	220.3	284.2 182.5 400.3	191.1	196.0	266. 7	2,099.7	217.5	341.6	392.4	12 12 12 12 12 12 12 12 12 12 12 12 12 1	160.8 56.5 5.5
-31.5	- 52.5 - 49.7 - 25.4 - 5.7	1   1   1   2   2   2   2   2   2   2	-15.8	-14.3	-24.0	47.7	-33.2	8 4 6 8	-37.4	-75.1	-14.5	44.5	6.23 2.23	1.55 1.50 1.00 1.00 1.00 1.00 1.00 1.00	33.6
63.2	113.2 121.8 30.2 30.9	65.0 34.3 13.3	20.1	27.4	53.4	80.0 18.0 131.4	47.1	11.3	29.2	1 14	51.9	39.9	1,00,0	0 m 1 m	15.52 19.03
11.9	411.4	10.5 16.4 -15.0 54.9	1,1	9.2	16.7	35.3	-1. 20:	4.88.4	-19.1	-87.0	30.0	-21.0 -45.2	1.76	8.7.8. 9.1.0.	8.12
335. 5	555.2 83.0 280.3 243.6	1, 097. 9	213.2	349.5	1, 061. 3	34,397.7	621.7	488 455	690.7	294.5	1, 632, 9	1, 675, 9	61. 1 4, 276. 0	1, 522, 6 389, 8	2,352.6
218, 460	27, 465 81, 016 23, 894 10 28, 544	7, 213	170,847	102, 131 68, 716	237, 907	108,642 (7)	28, 767	5, 034 59, 511 15, 124	338, 914	26, 782	42, 976	21, 233 57, 262	276	11,618	24.28
262, 842	36, 72, 318 20, 049 28, 934	11, 433 15, 645 9, 607	205, 026	133, 212 71, 814	309, 627	14, 987 158, 670 1, 895	35, 518	7, 974 2, 525	490, 990	30,831	73,972	29, 948	6,076	16, 917 38, 065	8,861 27,334
348, 344	50, 761 74, 603 42, 675 42, 455	25, 246 19, 541 (3, 585	239, 509	157, 368 82, 141	478, 209	86, 092 206, 188 31, 465	44, 977	16, 795 61, 477 8 5, 616	672, 169	27, 901	112, 743	84, 506 86, 022	14, 245 8, 627	188; 188;	33, 759
383, 690	46, 712 105, 045 41, 890 44, 717	32, 649 23, 090 11, 605 5, 176	283, 031	184, 354 98, 677	739, 007	210, 632 270, 212 65, 991		20,967 11,306	903, 339	36,947	180,442	108, 093 90, 578		15,83 18,88 18,88	
850, 259	177, 489 132, 908 93, 483 79, 415	85,88,88 19,19 18,139 18,00 18	529, 365	420, 365 109, 000	2, 367, 303	809, 252 763, 432 330, 143		43, 186 27, 120	, 312, 589	812, 737	572, 870	477, 302 160, 389		86,43 188,75 188,75	
846, 593	177, 318 152, 908 92, 687 77, 258	8,8,8,8 87,8,8 85,128 81,138	522, 453	413, 635 108, 817	227, 589	809, 243 763, 353 329, 459	182, 138	43, 059 27, 111	, 306, 037 3,	812, 734	572, 719	477, 285 160, 263	98,669	67, 106 106, 570	71, 669 52, 719
580, 278	84, 277 66, 818 72, 880 72, 880	52, 352 59, 557 19, 236 19, 869	439, 801	354, 537 S5, 264	, 693, 602 2,	564, 325 707, 019 194, 052	121, 622	88.52 1788 1788 1788 1788 1788 1788 1788 178	, 070, 269 3,	202, 397	489, 915	265, 124 76, 550	29,069	2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	34, 988 34, 988
947, 128	179, 714 148, 216 90, 051 95, 401	86,465 21,3991 40,271	528, 327	451, 735 76, 592	, 598, 7861,	,015,865 834,303 449,006	178,929	54, 431 17, 305 14, 256	, 674, 125 2,	105, 798	744, 375	370, 884 87, 794		21,881	
Nonferrous metals and their prod- ucts.	Brass, bronze, and copper products	where specified. Tinware, not elsewhere specified. Watches. Aluminum manufactures.	Tobacco manufactures	Tobacco, clears and clearettes. Tobacco, chewing and smoking, and snuff.	Vehicles for land transportation, in- cluding railroad repeir sheps	Automobiles Steam-railroad repair shops Automobile bodies and parts Care groon realired not include	tions of railroad companies.  Antomobile repairing	Electric-railroad repair shops	Miscellaneous industries2	Shipbuilding, steel Electrical machinery, annayaris, and sun-	Diles Prince times and mither mode	not elsewhere specified, including belt- ing and hose, rubber. Agricultural implements. Shinbuilding, wonden, including host.	nd graphophones.	Fur goods. Boots and shoes, rubber.	Fuotographic materials "-

See footnotes at end of table, p. 146.

TURE IN SELECTED INDUSTRIES, IN CENSUS YEARS, AND PER CENT OF INCREASE, BY CENSUS PERIODS: 1899 TO 1923—Continued TABLE 31.-VALUE ADDED BY MANUFACTURE IN

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	VA	VALUE ADDED BY MANUFACTURE (IN THOUSANDS OF DOLLARS)	D BY MAN	UFACTUR	e (in tho	UBANDS OI	F DOLLAR	ଜ		PER CE	PER CENT OF INCREASE OR DECREASE	CREASE	OR DE	CREASE	Ĵ	
XH350QM	Excludir lishme: valued	Excluding data for establishments with products valued at less than \$5,000	r estab- roducts n \$5,000	Incluc	ding data oducts val	Including data for establishments with products valued at \$500 or more	shments 1 00 or more		24-year period,			Interes	Intercensal period	riod	÷	
	1923	1921	1919	1919	1914	1909	1904	1899	1939	1919- 1923 1	1921- 1923	1919-	1914- 1919 2	1909-	190 <del>4</del> -	1904
Miscellaneous industries—Contd. Instruments, professional and scientific. Optical goods. Mattress and hed springs, not elsewhere specified. Recomp materials. Parvig materials. Stationery goods, not elsewhere specified. Toys and advertising noveities. Forman and advertising noveities. Forman games.	23, 768 45, 034 46, 035 36, 350 34, 077 46, 614 46, 074 47, 075 19, 580 19, 580	16, 344 28, 806 27, 772 32, 568 31, 180 27, 625 36, 655 34, 991 20, 922 16, 128	49, 936 85, 532 85, 532 84, 489 81, 276 82, 176 82, 157 84, 187 84, 187 84, 187 850	25, 252 25, 252 252 252 252 252 252 252 252 252 252	14,563 11,913 11,913 10,373 10,373 11,140 11,140 12,733 12,978	10, 601 7, 588 15, 380 15, 380 18, 746 8, 887 13, 107 167	9, 4, 4, 6, 12, 12, 13, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10	κωω ν.Φ.4.4.4.5.4.4 0011 00 2011 00	325.1 1,194.3 1,040.4 323.8 520.5 323.8 600.0 1,364.9 1,364.9 1,283.8	25.11 85.10 40.01 85.21 40.00 83.88.21 70.00 83.88.	4.6.6. 4.1. 4.8.8.8.8.8.8.8.8.8.8.8.8.8.8.8.8.8.8.	25.22.23.25.23.24.28.25.23.24.28.25.23.24.28.25.23.24.28.25.24.28.25.25.25.25.25.25.25.25.25.25.25.25.25.	242 9 224 4 210 2 210 2 221 1 221 1 240 9 38,1 171 1 171 1 171 1 100 0	4075 83.38 83.18 83.19 8	8888 888 888 888 888 888 888 888 888 888 888 888	87.28 88.38 3.39 9.41 87.11 9.4 8.50 11 9.4

\*Included in "Foundry and machine-shop products." \*\*Pumps, not including power pumps" included in "Pumps, steam and other

<sup>1</sup> Based on figures shown in left-hand column for 1919.

<sup>1</sup> The figures shown in the right-hand column for 1919 were used in calculating the percentages in this column.

<sup>1</sup> The figures shown in the right-hand column for 1919 were used in calculating the percentages in this column.

<sup>2</sup> Prior to 1914, the manufacture of ice cream was not included accept in cases where it was made a subsidiary product in the manufacture of confectionery or some other class of product for which statistics were collected.

<sup>3</sup> Condensed milk, michted in "Butter and cheese,"

<sup>4</sup> Roasting and grinding of peanuts," included in "Coffee and spice, roasting and grinding.

<sup>6</sup> Title changed to "Corn sirup, corn oil, and starch."

<sup>7</sup> Not shown separate in unstries. "Machine tools," "Steel barrels, drums, and the town tracted as asparate industries." "Anathine tools," "Steel barrels, drums, and tanks," "Terfait machinery and parts," and "Pumps, steam and power," prior to 1919; "Brignes—steam, gas, and water," and "Pumps, steam and power," prior to 1919; "Locemotives," and "Stoves and furnaces," prior to 1919. "Locemotives," prior to 1909; "Brignes—steam 
power."

In includes "Show cases."

I meludes "Window and door screens and weather strips."

"Cereal beverages." only.

"Coal-tar products" included 1899–1923, and "Ferro-alloys (electric-furnace)." for 1923, 1921, and 1914.

Includes "Candles."

Includes "Sand-line brick."

"Cement" included with "Line."

"The Comment" included with "Line."

"The Because of a change in classification, statistics not comparable.

"Preparing included prior to 1923.

"The Repairing included prior to 1923.

"The Repairing included prior to 1923.

"The Includes "Airplanes, seaplanes, airships, and "Motion, pictures."

"Includes "Photographic apparatus," and "Motion, pictures."

"Includes "Photographic apparatus," and "Organ materials."

See footnotes at end of Table 34, p. 177.

Table 32.—Average Number of Wage Earners Employed in Individual Industries, by Census Years, and Per Cent of Ingresses, by Census Years, and Per Cent of

The italic figures include establishments with products valued at less than \$5,000 to avoid disclosing operations of individual establishments.

	1923 fig	ures with	those of	previous 3	ears, see	general re	1923 figures with those of previous years, see general remarks preceding tables, par. 4, p. 122]	sceding ta	bles, par	. 4, p. 15	ments. 25]	AS 10 L	ne comi	As to the comparability of 1921 and	y of 192	1 and
		7	AVERAGE NUMBER	NUMBER	OF WAGE	WAGE EARNERS	<b></b>			PER CE	NT OF D	PER CENT OF INCREASE	OR	DECREASE	<u> </u>	
TADUSTRY	Excludio lishme valued	Excluding data for estab- lishments with products valued at less than \$5,000	or estab- products an \$5,000	Inclu	ding data oducts ve	for establ	Including data for establishments with products valued at \$500 or more	with e	24-year period,			Interce	Intercensal period	riod		
	1923	1921	1919	1919	1914	1909	7061	1899	1923	1919-	1921- 1923	1919-	1914-	1909-	1904	1899 1904
All indutries	8, 778, 1566,	946, 570	9, 000, 0599,	9, 096, 3727,	7, 036, 247	6, 615, 046	5, 468, 383	4, 712, 763	88.2	-2.5	88	88	29.3	6.4	21.0	16.0
Agricultural implements	30,962	30,369	54, 294	4,6	48,459	50, 551	47, 394	11 23	<u></u>	43.0	4 %	11-8	128	7	6.7	1.7
Aluminum magufactures Ammunition	16, 228	9,584 8,370	11,402	, H	4,614	ש:	(S)	(S)	6 001	45	69.8 90.8	3 CD C		1 16		
Artificial flowers. Artificial limbs	4,696	3,883	4 85 85 85		,4, 888	,4, 835 835 835 835 835 835 835 835 835 835	343	5,5,5,5,5,5,5,5,5,5,5,5,5,5,5,5,5,5,5,	14.8 14.8	13.8	387 387	200	5 E E	s 60 C		-18.5 -18.5
Arthicial Stone products Arthits' materials A shester products	10,766	1,984 1,988	7,413	ϡ,	10, 255	9,957	2,506	ි ව	613.9	24.22 22.22	4 8 8		<u> </u>		26.39 1.09 1.09	37.0
g and	8 6, 078 163, 530	2, 026 119	3,650	33,00	47 785	34 497	(B)	වෙ		96.5	200.0	14.5	279.8		100	- {
Automobile repairing	(9)		210	25.5	12, 562	(2)	₹ <b>£</b> ;		2 63 01	3   7	5 1/2	2 10	338.3		243.0	
Awnings, tents, and sails. Babbitt metal and solder	5,958	5,070	2,898	6,028	1,5	,4, 24,24,2		4.6.	82.5 180.2	1 –, 8 0 ∞	9.7.0 9.0.0	1 1 2 4 8 9 0 -	5,85 8,85 8,80 8,80 8,80 8,80 8,80 8,80	4.0; ; 0.00 4	- 00 0 12 13 15 14 13 15	රිරි ඉදුරු අ ආ ආ ආ
bags, other than paper, not including bags made in textile mills.  Bags, upper, exclusive of these made in	11, 548	10, 324	10,746	10, 756	9, 358	7, 968	5, 722	3,922	194.8	7.5	6	66	14.9		39.3	45,9
d yeast	3, 686 3, 507 838	3, 707 4, 557	4, 161 3, 318 4, 456	3,331	2,2,3 2,270 2,270	3, 212 2, 155	2,449	1,989	136.0	5 to 5	##°	92.5	18.9		8,21	25.53
	(11)	, E.	£ £	ł rą	5, 115	5, 45 131 131 131	3, 530 5, 698 5, 698			38.0	47.	· 41	13.9	-i - i - i - i	85.95 8.95 8.95 8.95 8.95 8.95 8.95 8.95	18.83 18.83 18.83
- i i .	3, 160	1, 119	2,479	2,765	952	3,006	2,092	1,667	31.8 90.08	14.5	39.3	-54.9	16. 4.8	19.9	48.7	172.4 25.5
, and dressings	2, 165	1,666	2, 101 2, 438	2, 101	1,453	1,495	1,218	453 1,250	88, <b>4</b> ,	-58.3	80 m	-56.0	44. 6 39. 0	888	87.8 18.1	75.7
Gas thotacted at and at Makin 24 m 177																

Table 32,—Average Number of Wage Earners Employed in Individual Industries, by Census Years, and Per Cent of Increases, by Census Periods: 1899 to 1923—Continued

[See note at head of this table, p. 147]

		•	AVERAGE NUMBER OF	NUMBER		WAGE EARNERS				PER CENT		NCREASI	E OR DE	OF INCREASE OR DECREASE	ĵ.	
INDUSTRY	Excluding lishments valued at	xcluding data for establishments with products valued at less than \$5,000	r estab- roducts ra \$5,000	Inclu	ding data oducts va	Including data for establishments with products valued at \$500 or more	ishments 00 or mor	with	24-year period,			Intere	Intercensal period	riod		
	1923	1281	1910	1919	1181	1968	1964	1899	1923	1919- 1923 i	1921- 1923	1919- 1921 1	1914-	1914	1904-	1904 1904
	1, 303 20, 728	226 826 17, 465	355 676 20, 126	360 675 20, 361	254 339 21, 693	313 228 19,933	206 200 17,713	220 85 15, 971	1, 432.6 31.3	47.0 93.0 3.0	-16.8 57.7 18.7	-36.3 -22.4 -13.2	41.7 1.09.1 1.1.7	118.8 8.7.78	51.9 14.0 12.6	-6.4 135.3 10.9
produced in boot and shoe factories.	7, 133	7,049	9, 703	9, 715	7,819	6, 693	5,936	6, 155	16.0	-26.5	1.2	-27.4	24.2	16.8	12.8	-3.6
produced in boot and shoe factories.	7,865	5,917	8, 906	8,941	6, 714	6,488	4, 434	3,246	143.2	-11.7	32.9	-33.6	33.23		46.3	36.6
97	225, 216 29, 435 5, 101	183,502 28,888 4,657	210, 991 32, 875 5, 189	211, 049 32, 875 5, 218	191, 555 18, 687 5, 835	185, 116 17, 612 6, 115	149, 924 18, 991 6, 282	141,830 14,391 4,609	104.88 11.3	-10.5 -1.7	88.0 7.00	-13.0 -27.3 -10.3	10.2 10.6	8. 6. 4. 6. 1. 3.	2,7,3	35.7 36.3
Specified  Boxes, wooden packing, axeeper digar boxes, Brass, bronze, and copper products.  Bread and other bakery products.	56, 855 39, 154 64, 713 162, 613	46, 242 32, 595 39, 830 148, 500	55, 778 42, 325 74, 998 140, 477	55, 862 42, 445 75, 051 141, 592	45, 311 38, 548 40, 306 124, 052	39, 514 35, 449 40, 618 100, 216	32, 082 30, 329 33, 168 81, 278	27, 653 21, 999 27, 166 60, 192	105.8 78.4 138.4 172.4	15.8	8,8,8,0,0 0.12,0,0	-17.1 -23.0 -46.9	23.3 14.2 14.2 14.2	42.1.83 7.7.88	ងក្នុងន ឧទ្ធ	16.0 37.9 35.0
Dilok and the, terra-cotta, and me-chay products.  Brooms. Brushes. Butther. Butter, reworking.	102,723 44,730 20,782 (H) 11,860	68, 579 6, 460 18, 506 9, 686	76,347 6,206 7,925 17,603 15,439	76,915 6,313 7,968 17,641 15,577	100, 182 5, 642 7, 213 14, 149 14, 511	13 76,528 5,199 6,954 11,563 16,427 16,427	12 66, 021 11, 425 9, 530 10, 567 10, 816	13 61, 979 10, 346 13 12, 799 148 8, 685 (16)	21.0	45 20 25 25 25 25 25 25 25 25 25 25 25 25 25	04.0.0.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5	18.7 18.7 19.7 19.7 19.7 19.7 19.7 19.7	8,15,2,2,0 6,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	00 00 00 00 1 1 00 00 00 00 00 00 00 00	27.5 27.0 27.0 27.0 20.0 20.0 20.0 20.0 20.0	6.5 10.4 173.0 21.7
Canning and preserving, fish	8, 030	6, 916	11, 188	11,248	690 '6	7, 260	5, 154	•	-28.3			-38.2	24.0	24.9		-54.2
ers	57, 178 1, 114 1, 207					40, 492 2, 666 525	39, 988 3, 291 696		56. 7 5. 0 274. 0	4 10 10	004	-135.3 -33.4 -33.2	85.81 10.01	1.22	1.3 -19.0 -24.6	7.5 146.5 114.2
Cardboard, not made in paper mills Carpets and rugs, other than rag	35, 217 35, 217							% <sup>'</sup>	% % % 0 0 0		90,	٠٠٠.	खंड इंड	ξξ, φ, ι ε, ο ι	27.8	4.61 4.01
Carriage and wagon materials. Carriages and sleds, children's. Carriages and wagons, including repairs 18.	7, 324 7, 740	2, 747 5, 460 7, 787	6,480 6,678 17,583	4,6,6,8 173 173 173	11,687 5,900 10,000	17, 388 17, 388 5, 300	17,169 4,003 722 722	1, 510 15, 387 2, 726 58, 425	25.55 26.55	- 62 42 43 0 4 10 0	1 22 4 2 5 1	1 1 1 1 2 2 2 2 1 2 2 3 2 5 1 3 2 3 2 5 1	-55.33 -56.33	- 8:14 - 8:4	4.1.25.1. 2.2.4.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.	46.8 3.9

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5,5	36.4	31.9	1.8 97.3	48.3	30.9	1 2	- 1.5 20.1 20.1 20.1 20.1 30.1 30.1 30.1 30.1 30.1 30.1 30.1 3	183	4 4 9 9	13.4	38.2		23.8	-37.1	29.1	34.9	120.3	11.8 8.4	18.2	4	t es	-58.3 20.3		89.0	31.0	
102.5		-24.2	88	8 E	90,00		2000 1838	နှင့် ကြွေ	85. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	39.4	32.9	25.7	0.47.	15.2	5.00 5.00 5.40 5.40	gi.	38		တင္	5 5	42.1	19.6 16.9	9	320	28.1	
17.7	20.3	7,2	8,8, 0,0		35.75	5	न स्व इंक्स	1 1 1 1 1 1 1 1 1	i i	19.0	රා	14.1	1.4	-18.7	139.1	C.	16,	7.8	96.7	4		0 6 0 6		183	1 61 1 61	
18.	5	-24.0	28.2		K 8:		1200			.85		8	8.8 8.0 8.0	2) D	127.8	ξ. 600	100	H 25	4 C	13.6	हे <del>व</del> दे झे 	8.63 8.63 8.63	16.0	3.6	4.59	:. ,
න න	-20.5	ا س	113.7		128:1		1.26	180	121	4.8	21.5	-15.6	-16.2		48 68 10 10 10 10 10 10 10 10 10 10 10 10 10	14.6	9	12.2	12.7	4,	12.6	-27.4	4	S:	9	
4	26.9	36.6	85.00 80.00		13.8g°		ब स्म ठ इं क्लं ट्					62	16.4 76.5	0,7	86 7 86 7	e .	11	က တ လုတ္တ	83.4. 41.	4	122.6	8 8 8 8	50	115	-17.3	
12.1	6.	36.2	2.0.5 2.0.5		15.7	, E	- 62 6 - 62 6	(E) -	9	133	139.3	8	4 610 0 61 1 1	o Î	8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	60 0 00 0 1 1	25.	1.0 1.0 1.0	15	100	7 24 24 24	200 200 110 100 100 100 100 100 100 100	0	114	हिल   अ 	
399, 1	181.6	11.0	129.0 624.4		444.6	97.0	\$ <del>\</del> \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	88.8	4:	9.6	39.6		967.6		53.	224.3	4	48 9 9 9	84.5		1	1 8 8 8 8 8		355. 7		1
7,025	173, 595	3, 585	33, 453 2, 067	1, 786	35. 35. 163.	306	1,314	6,087			83, 739 (a)	22 6, 387	6,840	26, 193	(13)	35,866	28,315	13, 114	12,340	297, 929	4, 932	12,028		1,017	5,658	
11,052	236, 870	4, 730	34, 058 4, 079		2, 652 19, 847		2, 1990 1960	7,249	 	88	(18)	5,959	8, 468 18, 981	10, 100	3,375	38, 239	(8) (8)	44. 688	2,895 10,975	310, 458	5, 416	14.345		1,922	7, 410	
22, 418	282, 174	3,583	43, 086 7, 465		4,8,8 \$,82		4, 88,8	7,961		38		8	9, 339	12, 221	4, 355	44, 63S 20 10, 680	(8) (8)	1,685	3,142	171, 182	7, 698	16,997		1, 573	9, 490	
26, 384	518	3,840	54, 288 8, 956 97, 916		85.5		4,160 239		966	E 25	<u> </u>	240	9, 468 21, 107	3 1	6,002	2 88 2 88 2 88 2 88 2 88 2 88 2 88 2 88	17.6	88	498	366	288	25.52		3,080		
	7 339,				ର୍ଗାଷ୍ଟ୍ରଟର ଅ				, 1		<u> </u>									<u></u>						
31, 272	484, 437	2, 920	52,288 16,544		3,997		1,955	\w.			# #	30,550	28, 319	0,44	13,675	13,04	27,64	, r.	8,81 8,41	430,98	9,39	19,83		5, 224		
31, 155	484,380	2,920	52, 298 16, 535 25, 697		8,55 18,55 18,55 18,55		9,08	1,248			15,646		11,880 129,314 1966	,	13,675							19,822		5, 186		
33, 279	385, 006	2, 912	55, 12 19, 78 23, 78 23, 78		39, 474 1, 994		6, 652 1, 687				6,832	883	9,6,9 8,5,8 8,6,8	3 2	9, 462	51, 213 9, 876	25, 172	1,408	2, 774 17, 084	12,058	7,363	14, 345	3,841	4, 137 840	10,838	
925	305	878	212		2000 2000 2000 2000 2000 2000 2000 200		876 376	<u> </u>			- 		86.44 8.44 8.44 8.44 8.44 8.44 8.44 8.44		181							25	88	288 25	<b>8</b>	
. ž	\$8	ත ත	76,0 35,9 9,50		# 4.4.9.9.		තු දැ ගුණ			5			±8ξ 2002-4	2	400	85	86.5	3	, 50 4 E	47,5	16,3	16,6		9,4	8	
and general shop construction and airs by electric-railroad companies	anie		ns of railroad companies. registers and calculating machines nt	coal, not including production in the liber and wood distillation industries.		decorating, not including that e in potteries	olate and cocoa products	S Sponging and refinishing	ing, horse. ing, men's	ing, men's, buttonholes	tar products	e and spice, roasing and grinding as, burial cases, and undertakers'	ds , not including gas-house coke is and cuffs, men's	bs and hairbins, not made from metal	ensed milk	erage	er, tin, and sheet-iron work	ials and flavoring sirups	Sacrama (	n goodsni kace	n small wares	ry and edge tools	men's, pourtymen's, and apparists'	al goods grinding	gists' preparations.	ee footnotes at end of Table 34, p. 177

Table 32.—Average Number of Wage Earners Employed in Individual Indistries, by Census Years, and Per Cent of Increase, by Census Periods: 1899 to 1923—Continued

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		*	AVERAGE NUMBER OF WAGE EARNERS	TOWNER (	DF WAGE	EARNERS				PER CEN	T OF IN	CREASE	PER CENT OF INCREASE OR DECREASE	EASE (	ĵ	
INDUSTRY	Excluding data for establishments with products valued at less than \$5,000	g data fo ts with p at less tha	r estab- roducts n \$5,000	Incluc	ling data oducts va	Including data for establishments with products valued at \$500 or more	ishments 00 or mor	with e	24-year period,	i gar		Intercer	Intercensal period	ğ		1 .
	1923	1921	1919	1919	1914	1909	7961	1889	1923	1919-	1921-	1919- 1921 1	1914- 19 1919 2 1	1909- 1914 19	1904- 18 1909 11	1904
clusi	63, 414	51, 510 2, 993	55, 914 4, 341	55, 985 4, 342	48, 467	44, 046 2, 397	35, 565 2, 707	29, 776 1, 647	113. 2 96. 9	13.4	82,80 4.4	31.19	15. 5 52. 9	10.0	11.53	19.4
plies. Blectroplating. Blectroplating. Brandy and other abrasive wheels. Brandy and other abrasive wheels.	3, 595 3, 595 3, 595	161, 204 2, 460 2, 849	212, 294	312, 374 3, 024 5, 601	118,078 2,584 2,387	87,256 2,717 1,943	1,943	42, 013 2, 086 7, 546	459.1 66.8 558.6	-35.00 -3	28.92 12.92	49.65 1.65 1.05 1.05 1.05	79.9 17.0 134.6	85.458 80.04	44.30.83 142.68	46.7 46.7
$\{a_1,a_2,\dots,a_n\}$	. 8 8. 4. 8. 8. 4. 8.	35, 567 184 1, 276	1, 192	1,878	28, 657 1, 536		(E) 1, 573		189.9	3.50 5.00 5.00 5.00 5.00 5.00 5.00 5.00	മചന	50000	10 co co	1 100 44	2 10000	83.55
Engraving, steel and copperplate, including plate printing. Engraving, wood Envelopes	7,529	7,156	6, 978 225 7.255	7,014	6,859 302 6,970	rej rej	6, 4 338 888 888 888	3,303	129.2 -56.2	-37.3 7.3	N (0 (0	41.8	m 6140		84 - 1.65 80 - 24	8.4 6.6
Explosives. Fancy articles, not elsewhere specified Fathers and plumes Felsewhere and plumes	, 0, 55, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	4.1.4.4 4.8.99 8.4.99	2,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	18.00 18.00	, 0, 1-, 4, - 0, 0, 2, 4, - 0, 0, 0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	, 6, 6, 7, 4, 4, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5,	(4,0,0,0,0,0) (0,0,0,0,0,0) (0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,	44.0.0 2027 817.00	138.1	18 1 19 0 0 10 0		12.01.01.01.01.01.01.01.01.01.01.01.01.01.	48848 255-20 1	<del>1000100</del>	16350 16	15.8
Perro-alloys Fertilizers Files	18, 572 272 290 290	16.898 3,595	5,2,5,0 2,2,2,0 1,2,0 1,2,0 1,2,0 1,2,0 1,2,0 1,2,0 1,2,0 1,2,0 1,2,0 1,2,0 1,2,0 1,2,0 1,2,0 1,2,0 1,2,0 1,2,0 1,2,0 1,2,0 1,0 1,0 1,0 1,0 1,0 1,0 1,0 1,0 1,0 1	24.8.0. 24.86.0.	4.82.94. 3.81.5 3.81.5 3.81.5 3.81.5	0.∰ \$\overline{A}_4.	4. (1.) 14. (1.) 13. 2.76	48. 8. 11. 180 180 180	60.6 45.3	2.02 2.03 2.4.3	7	م الحق	1	1000	1 - 0	3.7
in rearms. Fire extinguishers, chemical Fireworks. Flags and banners.	8, 1, 1	4, 1, 6 8,82,92 8,92,93	1, 279	i	7, 064 1, 324 1, 495	, i ,		4, 482 1,638 200	1,091.5 -24.7 19.0	6.1.1.6. 0.0.4.	ल स स स	च सा सा रठ				8 8 9 8 8 8 8 9 8 8
Plany and Jentacles  Floar and hemp, dressed.  Floar and hemp, dressed.  Floar and land grain-mill products.  Food preparations, not elsewhere specified.  Foundry and methine-shop products a  Foundry supplies.	25, 194 35, 194 448, 777 364	35, 378 22, 868 22, 868 321, 363 567	45, 295 30, 199 481, 701 171		20, 718 20, 718 20, 306 362, 471 555	1, 228 164 39, 453 14, 968 388, 911 88			230.9 99.8 29.8 25.3	4884848 4884			\$\$\$448889 \$1550 \$1550 1	2000	940HH0;	8440483 8440483
Furnishing goods, men's 24.	14, 439 18, 958	12, 052 15, 921	13,544 18,864	13, 639 27, 930	22, 459 22, 459	11, 927 15, 920	9,370	7,758	110.7	9 0 rc	19.8	-15.0	24.0 4.0	<del>ਲ</del> =	27.3	

888888888 6880 11116	25.8 77.0 20.6 31.1 59.1	30.8 30.8 30.8 30.8 30.8 30.8 30.8 30.8		8,44,0% 8,44,0% 8,40,00,0 8,40,00,00,00	5.6 497.4 20.8
22344884.11 18888844	6.7 1.4 1.4 1.4 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	27. 23. 30. 30. 30. 30. 30. 30. 30. 30. 30. 3	- 448888 8 - 07-61-0 6	46.7.7.9.9.1 7.2.7.4.9.2.	40.2 129.0
22.3. 17.7.1. 13.8. 8.1. 8.1. 8.1. 8.1. 8.1. 8.1.	-17.9 54.3 54.3	に 25 mm 4 mm 4 mm 4 mm 6 mm 9 mm 9 mm 9 mm 9		4444-148. 88-14000	30.9
884.004.17 884.004.17	72.9 36.3 -16.3 98.8	8-18-4-18-8	9. 45.55.45. 85.	51 52 52 54 54 55 55 55 55 55 55 55 55 55 55 55	68.6 4.55.6 0 165.6
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 -35.7 6 -25.9 6 -21.3 -31.6 8 17.2 6 -22.7	80848 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	-3.7 -19.5 -15.7 -27.1 -25.1 -35.1	414
27.888.1849.1 27.00.1089.1	86.86.86. 116.82.6.88	2000 2000 2000 2000 2000 2000 2000 200	. 48484 8	6.11.1.1.0.0 8.1.1.1.1.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.	36.3
24.42.1.9.4.0.1 17.20 0 0 7.4.4	1.0.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	200 200 200 200 200 200 200 200 200 200		110.12 2.03.11 2.03.11 2.03.11 2.03.11 2.03.11	70.9
28.24.28.88.28.3 24.64.26.88.39.39.39.39.39.39.39.39.39.39.39.39.39.	10.1 10.1 125.6 -20.3 314.1 444.9	159.3 -47.2 -79.9 88.7 -21.0		292 294.8 292.8 3435.9 11.6.4 9.6.4	108.6 1,978.8 486.2
87, 262 835 6, 513 22, 459 52, 818 52, 818 4, 914	(26) 14,345 5,943 1,618 1,163 219 219	2, 040 (3) (3) (3) (3) (3) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	1, 571 112, 544 18, 880 (n) 2, 108 189	5, 212 6, 880 503 2, 775 39, 241 183, 249	7, 660 (10) 117 4, 688
110, 133 1, 105 1, 256 1, 256 30, 566 63, 969 8, 379	(%) 10,645 4,679 2,864 1,402 287 218	(18) 706 (18) 706 (18) 271 (17) 271 (17		10, 101 10, 101 111 3, 437 35, 078 207, 552	8,090 (10) 689 5,665
123, 426 1, 241 1, 447 17, 751 37, 215 68, 911 9, 362	(*5) 11,354 4,773 3,265 1,383 456	4.1. e. 1.8.4.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0		4, 907 16, 1114 1, 121 2, 817 38, 429 240, 076	11, 345 12, 228 1, 601 8, 168
127, 881 1, 525 1, 530 10, 913 43, 792 4, 972 74, 502 8, 067	(25) 10,668 4,509 3,129 1,135 456	5,106 6886 1,198 1,285 1,213 1,213 1,213		6, 935 23, 011 1, 391 7, 107 248, 716	10, 658 1, 557 1, 985 10, 689
138,331 5,075 1,665 42,908 77,520 6,480	(26) 10,685 7,795 4,264 950 644 497	6,647 1,084 1,084 1,719 2,506		7,853 30,247 1,988 15,931 41,660 375,088	17, 967 12, 625 2, 077 28, 391
139, 950 5, 068 1, 662 42, 844 5, 583 77, 620 6, 398	8, 957 10, 669 7, 794 4, 264 942 640 490	6,594 2,708 1,032 42,449 42,449 3,649		7, 790 29, 895 1, 987 15, 897 41, 660 376, 088	17, 958 12, 625 2, 075 28, 387
124, 311 3 4, 6259 9, 419 34, 956 4, 280 4, 682 4, 682	2, 758 7, 907 7, 907 2, 915 1, 104 785 152	26, 428 26, 428 1, 222 1, 222 30, 2, 068 33, 803 1, 425 1, 729	13,830 14,824 1,428 95 120 120 120	7, 504 24, 066 1, 676 1, 504 9, 384 19, 698 235, 515	10, 148 12, 496 1, 782 16, 740
5 168, 089 23 5, 203 12, 315 42, 282 6, 127 73, 335 5, 157	8,864 10,010 3,6537 3,653 918 901	25,248 4647 1,317 8,2,312 49,884 2,321 3,321		8, 708 26, 852 1, 975 1, 975 12, 275 19, 26, 712 388, 201	15,962 21,576 2,429 27,468
Furniture— Furs, dressed. Galvanizing and other coating processes. Gas, illuminating and heating. Gas machines and gas and water meters. Glass Gas machines and gas and water meters. Glass Glass, or a machine gand mater and water meters. Glass, or a matering stating, and or armamenting. Glayes and mittens, clath, not including	gloves and ein textile mills Gloves and mittens, leather Glucose and starch. Gresse and starch retined.	A greate and the same state of the same sadder.  Hat ware sadder.  Hat and can materials	Hats and esps, other than feit, straw, and wool. Hats, fur-feit Hats, straw Hats, wool-feit. Horseshoes, not made in steel works or rolling mills.		trivets, not made in rolling mils.  Iron and steel, cast-tron pipe.  Iron and steel, doors and shutters.  Iron and steel, forgings, not made in steel  works or rolling mills.  See footnotes at end of Table 34, p. 177.

Table 32.—Average Number of Wage Earners Employed in Individual Indstrues, by Census Years, and Per Cent of Increase, by Census Periods: 1899 to 1923—Continued

[See note at head of this table, p. 147]

		4	AVERAGE 3	NUMBER C	OF WAGE	EARNERS				PER CENT	ð	INCREASE	S S	DECREASE	ĵ	
INDUSTRY	Excluding lishment valued at	xeluding data for estab- lishments with products valued at less than \$5,000	estab- roducts n \$5,000	Locluc	Including data for establishments w products valued at \$500 or more	for establi lued at \$5	establishments with d at \$500 or more	with e	24-year period,			Intercer	Intercensal period	gog		
	1923	1361	1919	1919	1914	1809	1904	1899	1923	1919- 1923 1	1921- 1923	1919- 1921 1	1919 2 1	1914 1	1909	1967
Iron and steel, nails and spikes, cut and																
wrought, including wire nails, not made in steel works or rolling mills.				3, 355	2,644	2, 765	3,681	4, 477	-36.4	15.1	-	138	26.9	-44	-24.9	-17.8
Iron and steel, tempering and welding	1,376	1, 210	1, 762	(10) 10 496	(E) 845	(B)	(10)	(10) 5, 536	92.1	-21.9 2.02	21.2	-31.3	17.9	29.7	25.9	2.2
I vory, shell, and bone work, not including						5					7	1				. 6
combs and hairpins	808	674	888	32.5	25.5	1 907	1,769	1, 334	154.3	-27.6 7.7	100 800 100 100 100 100 100 100 100 100	1.4	0,00 0,40 0,40	21.55 21.55	\$ E	55.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.
Jewelrv		83 58					22,080	20,468			69	13.0	H	6.8	37.4	7.9
Jeweiry and instrument cases.	2,977	2,241	2,73	2,734	7,393	2,070	1,676				100	27.9	বেত	15.0 0.0	gio gio	104 8 6 6 6
Vute goods Knit goods		161, 880					104, 092	83,691			-0	9	7.5	16.4	75 75 75	4
Labels and tags		4, 152					1,348				9	20.8 4.0	06		5.0	∞ α
Lamps and reflectors		, 44. 20.					4, 429				04	65.20	97.8	9	38	9 50 5 mi
Lard, not made in slaughtering and meat-					,									-		
packing establishments	9	(F)		9 13	9 704	© -	-130 -130		100	-6.66	-13 ×	i i	<del>,</del> =	21.9	43.0	
Lead, bar, pipe, and sheet			852	852					123	11	4		9	-27.1	24.1	8
ğ									:03 :00 :00	ii:	6.0	6 6 6	iO c	6.5	7	
lime	12,733	3,55	12,460	4,4	12, 429	13,202	11, 152	17 19, 085	4 10	0.0	, 585 586 586 586 586 586 586 586 586 586	7 67 1 67 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	1 0 0 64 0 64	10.6	24.6	
									-12.2	다. 주	14.3	83	0	1	20.5	16.1
									17.4	1 1 1 1 1	96	17.3	-10	7.5	- 	<b>\$</b> 8
Liquors, mait, including cereal beverages.									1 1	20.5	o ,-	2 1	0 0	0	9 1	4.0
dithographing	16,317	13, 971	15,611						25.6	4	00	-10.5	6	1~	19.5	-2.9
Locomotives, not made by railroad com-		•										į			é	
Control for the control of	30,672	16,583	26, 715	26, 725	17,391	14,903	8, 8 8, 8 8, 8 8, 8	19,639	٠	4, c.	200	137.9	37	ا مر مر	5 - 5 0 1 0	0.0
Lubricating greases	*,	ć,						127	376.9		9	10.6	- 00	170.5	47.9	6.3
	495, 932	364	469, 297	480, 945	479, 786	547, 178	404, 563	413, 257			N	-22.4		-12.3	35, 3	-2.1
cluding planing mills connected with								1	1				<u> </u>			. 6
	103,008	78, 033	86, 382	86,956	96, 214	214 54 112, 392	34 97, 674	3, 73, 510	41.0	19.2	37.0	5	6	14.4	ror or	52.9

			223.3	. 221, 22,	***	•	J. P. J. 14 . L.	14.644.64	,a, 1,242.				~0
85.65 85.65	36.3	63.0	3.0 3.7	6.6	2.6	13 13 13	40.5 10.2		- - - - - - - - - - - - - - - - - - -	16.6	8888 8888 8888 8888 8888 8888 8888 8888 8888	-21.2	41.8 96.2 18.3
14.8	40.9 8.6	20.8	13.0	83.0		4 4 4 4	5745	119.94 119.77	සුනුනු	16.1	25.25	-26.1	23.09.45 20.09.09
13.0	1.00	15.5	136.5	50.6	80.1	4.6 4.0		12.22		22.3	21 25 8 35 2 4 9 23	1,277.0	7.44 22.27
40.3	23.5	12.3	206.5			<u>အ (၈</u> ၁၈ ၁၈	-18.43 -18.03	9 9 9 9 9 9 9 9 9	887	210.9 85.9	31.0 8.4.0 6.4.0	14.8 14.8	37.9 177.9 69, 1
15.9 21.8	-6.4	6.6	-52.0	24-08- 8-4-	4 45	-31.0	-49.4 -29.5 -17.9	17	4.00 L	-28.4	120.5	19.	-14.0 -14.0 -30.5
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	20.0	1.0	28.4 46.3	47.7	다 다 약8	40.2 2.2	5,4%; FR		882	9.8	23.8 27.9	ង់ន	483.55 48.25 48 48 48 48 48 48 48 48 48 48 48 48 48
1.545 1.00 1.00 1.00 1.00 1.00	-8.1	7.7	-39.4		-16.4	4.63	-12.1 -26.4		46.7 6.5	-47.9 -16.9	6.1 6.1 4.3 132.8	23.5	86.4 84.0 84.0 84.0 84.0 84.0 84.0 84.0 84
75.6 -2.5 130.2	-17.7 85.7	224.6	317. 5	127, 1	46.6		157.8	15.8	192.9 135.0	229.3	143.1 141.0 12.4	52.4 714.9	169.5 971.0
(10) 1,990 7.41,686 2,047	1, 197	16, 871 37 8, 788	2, 555	2,607	458	21,300	2,653	1, 1, 168 1, 168 1, 168	2,706 2,718 512	3,715	49, 151 6, 117 6, 117	11,606	(2) 2, 162 318 378
(19) 27,054 51,110 3,185	625 10, 427	27, 500 (21) 10, 879	2, 157	2,780 3,319		2,00 2,00 2,00 3,00 3,00 4,00 4,00 4,00 4,00 4,00 4	82.69 33.99 38.99 38.99	15,540			9,781 9,964 1,082		4.4. 500 62.4.00 62.4.00
(46) 1, 760 55, 603 3, 631	11, 322	39, 201 (21) 13, 147	1, 990	4 4, 437		25, 407	10, 140 4, 638 954	15.85 16.85		6, 398	11, 864 75, 978 12, 983		1,949 4,134 817 408
(19) 1, 989 54, 891 3, 800	11,747	45, 274 (21) 15, 506	3, 184	4,274 680 4	7. 28. 28.	98. 85.	1, 5330	2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3	24.1 25.2 25.2 25.2 25.2 25.2 25.2 25.2 25	917 7, 919	13, 349 88, 457 13, 495 1.073		2,35 1,154 246 246
(19) 1,352 32,768 3,726	12, 687	50, 850 38 17, 440	14, 426	6,949		22, 967	9,294	26, 26 27, 28 28, 28 28, 28	1,5,5,0		17, 485 113, 759 14, 135 403		84.6. 84.6.
53, 092 32, 352 3, 726	1, 073 12, 549	50, 378 (28) 16, 532	14, 357 2, 578	6,820	4. 8. 078	22, 955	11, 003 9, 282 859	28, 788 302 173	5,910 1,3614 130	2,851 14,685	17, 457 113, 752 14, 122 399	17, 114 15, 742	2, 2, 2, 2, 2, 200 416 116
21, 307 616 30, 260 4, 539	628	53, 701 (28) 14, 651	6,887	3,936 4,308	55 55 55	16,836	6,55 6,38 73,58 73,58		5,93 8,83 8,73 8,73 8,73 8,73 8,73 8,73 8,7	11, 120	13, 877 105, 294 11, 510	13, 800 15, 387	2,5,5, 13,138 282 283
33, 373 487 40, 056 4, 712	986	54, 246 (28) 18, 062	8, 707	5, 813 6, 576	8 55 50 50 50 50 50 50 50 50 50 50 50 50 5	1,23, 208.	9, 672 6, 834 882	12,745 170 170	14,7,4 12,88	1, 484 12, 205	17, 182 120, 677 14, 724	17,353 19,442	4,7,0,0, 2,88,82 2,88,82
e and stone work.	1017. Sees and bed springs, not elsewhere fied	bry and lace goods, not elsewhere fled. Thed. The soul services of the serv	18 1	sand parectal, not minuting paper ordes, bicycles, and parts.	here specified instruments and materials, not there specified	al instruments, prants.		d cake, cottonseed sential	t elsewhere specified h and linoleum, floor h, enameled	argarine and other public substraint agods.	and wood pulp. goods, not elsewhere specified.	medicines and compounds g materials, reasting, eleaning, and	

Table 32.—Average Number of Wage Earners Employed in Individual Industries, by Census Years, and Per Cent of Increase, by Census Periods: 1899 to 1923—Continued

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AVERAGE NUMBER OF WAGE EARNERS (-)	Excluding data for establishments with lishments with products valued at \$500 or more paried, at less than \$5,000	1923 1921 1919 1914 1909 1904 1899 1923 1919 1922 1919 1919 1919 1916 1919 1910 1900 1904 1899	5.405         2.897         2.699         663         473         34.5         -41.1         27.7         -63.9         40.8         -18.0           5.85         28.97         12.09         46.9         13.2         94.5         32.9         43.2         45.3         32.9         43.2         45.3         32.9         43.2         45.3         32.9         43.2         45.3         32.9         43.2         45.3         32.9         43.2         45.3         32.0         43.2         45.3         32.0         43.3         32.2         33.3         40.3         80.4         45.3         42.9         46.9         11.2         42.3         43.3         43.3         43.3         43.3         43.3         43.3         43.3         43.3         43.3         43.3         43.3         43.3         43.3         43.3         43.3         43.3         43.3         43.3	648         4,718         3,083         3,041         1,654         783         656         651         429.4         20.3         -21.8         -31.4         14.0         70.9         -20.9         49.9         -36.           648         4,718         3,083         3,041         1,654         778         696         691         429.4         20.3         -22.7         55.6         83.9         111.2         12.5	11 79, 385 11 125, 662 119, 848
		1919	887 888 888 888 888 888 888 174 184 185 186 186 186 186 186 186 186 186	6.1.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.	662 119,848 50,22 164 168 40
AVERA	excluding data for estalishments with produced at less than \$5.	1921	4475 5.838 4611 17, 988 4611 17, 988 4611 17, 988 521 6, 971 333 7 (5) 949 7 13, 600 1 14, 600 1 14, 600 1 15, 600 1 16, 6	648 4, 718 648 4, 718 550 31 2, 186 32 1455 2, 204 764 1, 940 665 6, 908	219 11 79, 385 11 1
	INDUSTRY		renetics.  graphophones not done in printing eserials and sences i, not elsewhere specified d dressing, not done in d meet-pecking estab- ishing, book and job- ishing, newspaper and	Printing materials. Pulp, from fiber other than wood. Pulp goods. Pungs, not including power pumps. Pumps, steam and other power. Refrigentions steam and other power. Register, and society badges and emblems. Rice, cleaning and polishing. Rich grantfalas. Rich grantfalas. Rubber tires, tubes, and rubber goods, not	n

## BUREAU UP INC CLIVOUS IBRARYI55

ADDENTITY	B-GENERAL	THE YEAR WAY
APPENDIX	D-GENERAL	TABLES

11.3	44.44.82 1.24.82 1.20 2.22	67.7 18.3 18.9	126.1	21.7 47.6 8.4	9 6 0 0		16.4 91.5	17.8	35.6	26.4 138.4	26.8 11.3 45.8	37.6 101.2	82.3 7.73
5.8	13.93.55 4.03.55 5.03.03.05		,	24.4		었다	1.834 - 89	28.1	4.4.4. 12.5.4.	33.4	28 20,8,8, 20,4,8		·
11.5	11.25.58 2.35.58 2.35.55	19.9		5.00 W		44.5	2,4% 0,0%	15.9	5447; 1120	12.9	21.3 21.3 55.4	17.17 - 17.00 - 10.00	38.21 12.44
13.29	• • • • • • • • • • • • • • • • • • • •	-	295.5 -23.8 -17.7	6,7.99 9.7.29		43.5	44 44 46 46 46 46 46 46 46 46 46 46 46 4	142, 5	19.2 45.7 -28.3	39.0 45.9	35.6 35.6 35.6	47.3 68.0	61.8 61.9 49.2
-11.8 -25.8		1	15.8	127.5		5.44 7.48 7.00		-40.3	14.3	16.0	25.32	-25.1 -55.1	
13. 55.59	18.64 14.33 11.44.45 11.44.64	6.9	1 1	8 6 6 5 8 6 6 5 8 6 6 5	33.55	25.25 25.35	37.1	61.1	45.7 18.0 10.6	4. w. c.	4 #	8.44.00 8.00 0	1,5,5; 8,8;
525.0	33.4 -1.5 -1.10 -1.10 -1.10	-30.1	-76.1 3L.7	4 1 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	-26.8 -13.6	- 40 - 40 - 40 - 40	-3.8	26.9 26.4 26.5	17.59	11.9	67.5 -35.7 -53.5	- 15.22 - 15.22 - 15.23
329.1	427.38 53.58 108.6 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	68.1	42.4	14.5	12.55 1.75 1.75 1.75 1.75 1.75 1.75 1.75 1	61.3	176.4 338.6	311.1	252. 3	342.1	70.3	107. 4 284. 5 -69. 4	130.2 232.4
4, 774 274 (13)	3,215 2,775 1,557 1,970	2,653 10,712 30,966	15,841 36,622 1,363	65,416 5,813 68,386	8,319	€ 4.5 888	73 25 12 25 12 25 13 25 14 25 15 br>15 15 15 15 15 15 15 15 15 15 15 15	2, 102	5 5 8 8 8 8 8	9, 252 1, 147	2, 418 2, 408 1, 411	1,970	1,539
4, 686 305 (13)	1, 265 3, 133 1, 965 1, 488	4, 450 6, 7451	4, 012 3, 499 3, 082	7,8,7,6 7,880 134 134		() 1,0,12 2,528		2, 476	13, 560 1, 507	7, 68 734 8	2,52,8, 57,00,00 67,00,00 67,00,00 67,00,00 67,00,00 67,00,00	3, 963	2.5.4.7 2.4.7 2.811
81	832 559 667 464			255 255 255 255 255 255 255 255 255 255	8 25	45.55	្ត ទីគីស្តី	196	25, 412 1, 696 1		32, 839 32, 118 5, 012	127	_
. (E)	ન્ <i>4</i> હૃ્ણું નું છ્	4,55,82	చ్రేష్ట్ర.	රණින් දුරි	ą,,,	<u>್</u>	Ž-y.v.	es.			:	\$r,4,	or̂e1e5
5,089 681 557	2,4,4,6,4, 26,64,6,6,4,6,6,4,6,6,6,6,6,6,6,6,6,6,6,	8. 4.8. 8.8.8.	10,98 51,97	108,170 1,070 98,832	7,38	⊙4.0; 20.58 20.58	19.00 188	3,70	8,77,73 1,988	26, 388 4, 213 (10)	29, 455 7, 736 7, 790	47, 167 7, 997 3, 632	11. 88. 88.
6,48 27,52	3,471 5,510 10,262 1889	4, 171 15, 059 344, 014	43, 432 39, 603 1, 857	126, 782 6, 453 160, 996	6, 438	445 455	12.00 18.00	8, 981	34,248 11,261 1,466		3, 664 32, 868 10, 565	43,962	
6,487	6,7,7,4, 10,7,501 123,501 889 889	8,13,236 34,011	8,8,8 8,28 8,28 8,28 8,28 8,28 8,28 8,2	126, 215	6, 438	2,04,52 2,65 2,65 2,65 2,65 2,65 2,65 2,65 2			%; t; t, 8%; 2%; 4, 8%; 6%; 6%; 6%; 6%; 6%; 6%; 6%; 6%; 6%; 6	36,679 3,141 322	10,23,4 10,580 10,555	\$4.1. 886.0.	
5, 993 374	23, 872 2, 788 5, 720 2, 742	83,559 83,323		11, 378 11, 987 11, 989		1,00 1,20 1,20 1,20 1,20 1,20 1,20 1,20			4,1, 88,89 8,89	30, 808 2, 877 2, 013	(*) 3,617 24,530 7,921	25.00 200	5,4,4, 25,83,2 10,000 1
6,809 1,176 582	4, 0, 4, 0, 4, 0, 4, 0, 12, 12, 12, 12, 12, 12, 12, 12, 12, 12	0 13, 435 4 51, 961	10, 326 51, 672 (4)	125,234 185,23	\$ 60 100 100 100 100 100 100 100 100 100 1	11,918		8, 634	35,237 13,314 1,807	2, 064 2, 064 2, 668	83,4,096 33,029 16,783	5, 571 2, 571 2, 571	
d emery paper and cloth	pocking establishments.  In Discourse in Sangaranne and Delances.  Inachine.	machine cases machines and attachments ding, steel ding, wooden, including boat	ng 888 8 a dwerffeing word his	dis including throwsters lithing and silverware. Titing and meet pocking.	g and refining, lead g and refining, metals, not else-	specifiedg and refining, not from the ore	ter apparatus ; and athletic goods steel, car and carriage, not made	l works or rolling mills.	specined rry goods, and elsewhere specified. 7 and art goods tithings and steam and hor water	g apparatus seking rrels, drums, and tanks, portable	and brands. Thing and electrotyping. Thing hole electrotyping. The stand oil. The stand oil. The stand oil.	or rolling mills eet. ane	ening, not including beet sugar- ic, nitric, and mixed acids.

see footnotes at end of Table 34, p. 17

Table 32.—Average Number of Wage Earners Employed by Individual Industries, by Census Years, and Per Cent of Increase, by Census Periods: 1899 to 1923—Continued

[See note at head of this table, p. 147]

		.₩	AVEBAGE NUMBER OF	UMBER C	WAGE	WAGE EARNERS				PER CENT	ão.	INCREASE OR DECREASE	OR DE	CREASE	I	
YELSÜCKI	Excluding lishments valued at	xcluding data for establishments with products valued at less than \$5,000	estab- roducts 1\$5,000	Includ	Including data for est products valued a	for establi lued at \$5	establishments with d at \$500 or more	with	24-year			Interce	Intercensal period	iod		
	1923	1261	1919	1919	1014	1909	706T	1899	1899– 1923	1919	1921- 1923	1919-	1917-	1909-	1909	1899-
Suspenders, garters, and elastic woven goods.  Taxtile machinery and parts. The strict scenery. The pate and terroplate Tim ware, not elsewhere specified. Timware, not elsewhere specified. Timware, oftewhere specified. Tobacco, cipars and supplies. Toys and games. Trunks and valiess. Trunks and valiess. Trunks and valies. Trunks and supplies. Type fornaling. Type fornaling. Type fornaling and care. Unbrolles and care. Upholstering materials, not elsewhere specified. Varnishes. Varnishes. Varnishes. Varnishes. Wall paper, not made in paper mills. Wall paper, not made in coring. Washing machines and clothes wringers. Watches. Watches. Watches. Watches. Watches. Whings. Whings. Whings. Whings. Whings. Whings. Whings.	できた。 でいる。 でい。 でいる。 でい。 でいる。 でいる。 でいる。 でいる。 でいる。 でいる。 でいる。 でいる。 でいる。 でいる。 でい。 でいる。 でいる。 でいる。 でいる。 でいる。 でいる。 でいる。 でいる。 でいる。 でい。 でい。 でい。 でい。 でいる。 でいる。 でいる。 でいる。 でいる。 でいる。 でいる。 でいる。 でい。 でいる。 でいる。 でいる。 でいる。 でい。 でい。 でい。 でい。 でい。 でい。 でい。 でい	<ul><li>・ ない。 ない。 ない。 ない。 ない。 ない。 ない。 ない。 ない。 ない。</li></ul>	\$\\ \frac{4}{2}\tau_{1}\tau_{2}\tau_{2}\tau_{2}\tau_{3}\tau_{2}\tau_{3}\tau_{3}\tau_{1	高い	호) 나면성전로 하다고본니다. 4억 나4면 연천 반나 점 \$ 862 88 88 88 88 88 88 88 88 88 88 88 88 88	0.00 0.00	(8.9) 4.0,11,14.0,82,14.0,0.0,14.1,14.0,82,14.1,14.0,82,14.1,14.0,82,14.1,14.0,82,14.1,14.0,82,14.1,12.8,12.1,12.8,12.1,12.8,12.1,12.8,13.8,13.8,13.8,13.8,13.8,13.8,13.8,13	(8) (9) (8) (8) (8) (8) (9) (9) (9) (9) (9) (9) (9) (9) (9) (9	8. 144	8444 116414 88444 44488989 1928864 5	82448   \$4448848   119   888418888	11424	41 8.84 488 4.118 4.12 4.14 4.14 4.16 4.16 4.16 4.16 4.16 4.16	4   1244499986118611	24 % 24 4 6 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	28.00 29.00 20

195.7 195.7 195.7 195.7 195.7 198.8 198.8 198.8 198.8 198.8
224.08 1.7.7.1 1.7.7.2 1.8.7.7.38 1.4.6.6.38 1.4.9.9
**************************************
8.47.27.7.4. 8.4.6.4.4. 10.6.4.4.4.6.4.4.4.4.4.4.4.4.4.4.4.4.4.4.
25.64 20.71 20.72 20.73
36.0 -110.9 -110.9 -110.5 -110.5 -110.6 -110.6
23.1 28.88.66 1.02.6.59 1.1.1 5.1.1
1, 801 1, 608 1, 608 1, 556 1, 558 11, 558 3, 206 3, 206 125, 901
13,737 13,737 13,737 14,687 6,594 141,998
18, 39, 39, 39, 39, 39, 39, 39, 39, 39, 39
4, 077 17, 600 12, 126 12, 126 2, 830 11, 615 6, 418 1, 059 1, 059 1, 059 1, 059 1, 059
4, 411 19, 741 15, 224 4, 946 3, 978 10, 649 6, 443 705 2, 166 166, 787
4, 380 19, 741 15, 138 4, 940 3, 978 10, 528 6, 402 7, 177 2, 177 2, 177 2, 551
3,781 14,832 11,485 1,861 4,153 9,144 5,52 1,536 1,170 1,170
5, 957 21, 310 16, 783 6, 520 11, 286 5, 727 1, 473 2, 128 194, 553
ecified.

See footnotes at end of Table 34, p. 177.

Table 33.—Amount of Primary Horsepower Installed in Individual Industries, by Census Years, and Per Cent of Increase, by Census Years, and Per Cent of Increase,

As to the comparability of 1921 and 1923 figures with those of previous years, see general years presseding taking	nars 2 and 4 nn 194 and 1981
[No data in regard to prime movers were collected for 1921.	

1	1	14-	33.6	27.0	;	69.7	. O	96.5		10	8.50 0.61	1.		: co -		ರ್ಷ ರಾಜ್	8.0	00 e	96	- <del></del>
]		1899		100						- 1			8.5		٠.				নু ক	#
20 F E 4 CE	riod	1904 1906	38.5	12.1		₩ 1	209.6	186.6	902.4		83.0	14	25.7	12.1	41.5	167.9	318.7	14.8	78.1	5,5
n BO a	Intercensal period	1999-	20.1	20.7			1 - 8		175.8		8,8	51.6	135.7	1 2	37.6	31.4	22.5	161	: H	43, 2
CENT OF INCREASE OR DECRESOR ()	Inter	1914- 1919 2	31.5	5.6	0, 510. 4	244		200	274.0	404.8	109.0	-12.6	155.33	-13.4	4	- 55.0 - 50.7	15 c	8	°≈ •∺	31.8
ENT OF		1919-	12.8	4.9	1 8.89	9.8	199	35 35 35 35 35 35 35 35 35 35 35 35 35 3	80.3 18.3	54.3	8, 8, 4, 10,		37. 78.9			29.82 02.44	14.9	190.0	40.8	-17.6
PER C		1899	229. 6	72.6		677.3	628.0	596.1		912.0	415.2 300.9	689.7	365. 6	91.4	5	321.3	958.6	155.3	234.0	131.7
-	24.5	Ī	88	646	<u> </u>	980	92	289 1,		164 13,	921	755	1		_}	2 63 26 63	200	116	f 68	202
	t than	1899	10, 097, 893	70,	9	V), do	8		වෙ	3,		,-î	બંધ	, roz	î usî	લ	744		41	3,5
	ower other	1904	3, 487, 707 10,	89, 738	Œ	5, 056 6 184	188	568	2, 485	7,624	1, 105		2,927		12,343	3,720	1,905		5,671	4, 519
WER	rented po	1969	3, 675, 376 13,	100, 601		10,317			24, 900		4,4, 2022 2022		56.00 56.00			2,638			10, 099	4, 769
PRIMARY HORSEPOWER	Including data for rented power other than electric	1914	437, 072 18,	121, 428	12, 338	11, 354	30 320 320 320	1,977	68,701	104,983	2,610 2,881	10, 392	3, 682 7, 862	, 282 282 283	22, 995	7,45	2,42	1.816	11,266	6,829
RIMARY	Includir	6161	4, 792 22,	3, 249	88	<u> </u>	222	3, 206	3, 919	333	, 02 22 22 23 23 23		95	, 319 783	3, 299	7,030	490	23.53 25.53	1, 123	9,003
A .		8	669 29, 504,	128,				(a) (a)	•	٠,			48,				_	1		
	data for power 1 electric	1919	327,	128, 24 2 12, 51		8 8 8 8 8 8 8 8		8, 9 (5)		282, 323	4,0,		20,62	190 190 190 190 190 190 190 190 190 190	(E)	7,	2.9. 3.4.	1,857		8, 448
	Excluding data for rented power other than electric	1923	1, 094, 228 29,	121, 975 3 5, 443	58,272	6 2 2 2 3 3 4 4 5 6 7 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8	30,748	8 26, 855	463, 080 (3)	435, 545	4,4,	13,852	35,845		(II)	9,075	101 201	5, 250 200 200 200 200 200 200 200 200 200	15, 539	6, 963
	INDUSTRY		All industries 33,	Agricultural implements' Airplance, seaplancs, airships, and parts.	Amountion Amounties	Artificial flowers Artificial limbs	Artificial stone products	Asbestos products, not including steam packing	Automobile repairing	Automobiles. Awnings, tents, and sails	Babbitt metal and solder Bags, other than naner not including begs mode in	ade in pener wille	Baking powders and yeast. Raskets and rotten and willow ways.		Belting and hose, woven, other than rubber	Belting, leather Billiard tables, bowling alleys, and accessories	Blacking, stains, and dressings		Boot and shoe cut stock, exclusive of that produced in	boot and snoe lactories.

25.45.00.00.00.00.00.00.00.00.00.00.00.00.00	43.7 -12.0 166.9 67.6	14 5 4 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	178.3 27.4 20.6 20.8	76.7	45.0 67.7 208.9	116.5	24.0 195.4 142.1 142.1 15.2 15.2 15.7
4భ ! లశనిభిగ్ర తాబాంబంగాలు	동 등 , 다음		(88.04.18.18)	1,034.9	74.7 67.8 148.5	28.5 57.6 50.0 103.0	112 121 121 122 123 123 123 123 123 123
48411	17.38 17.38 17.38 12.38 12.38	47.48.85.4 1468000	19.1	25.7	- 33.9 52.5 31.9	25. 35. 27.	
2225-42517 240420000	* 4 % EL & 4	882 883 883 883 883 883 883 883 883 883	81-8 8 - 4 8 - 4 8 - 4 8 - 4	37.0	6. 488.1. 9. 60%	1,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2	
80884455 60584455	33.1 33.1	20 1 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	55.0 54.0 44.5 94.0	15.9	6.8 52.1 104.0 31.5	1,8,72	4518844 6220089
283. 177. 124.6 174.0 174.0 174.0	43.9	280.9 417.3 72.1 476.5 1187.5	334. 280.8 50.8 8.7	868.3	106. 1 619. 0 2, 130. 3 670. 0	676.5	288. 288. 288. 180. 180.
4.02.24.0.27.02.15 2.24.25.25.25 2.24.25.25.25.25 2.25.25.25.25.25.25.25.25.25.25.25.25.25		(4) 4, 224 922 922 219 219 26, 740	32, 599 2,462 51,755	6, 443	83, 395 (F) 340	(E) 164 (E) 429 (A) 429 (A) 736	9, 486 109 13, 347 113, 962
3, 220 25, 220 25, 528 15, 117 25, 951 37, 951 37, 241		4,44 1, 232 1, 232 1, 633 2, 633 2, 633		3, 154	7, 054 55, 994 149, 604		23.25 23.25 21.106 21.106 13.77 14.916
25, 968 25, 968 26, 049 112, 498 105, 120 23, 238 24, 288				35, 794	15, 161 97, 797 6, 944 371, 799	11, 638 208, 657 (20) 10, 593	2, 29, 29, 29, 29, 29, 29, 29, 29, 29, 2
24,888 24,621 24,621 28,179 128,805 1126,805 1127,700 107,771 107,771					10, 014 126, 687 10, 619 490, 402	19, 219 19, 219 3, 285, 385 3, 030 19, 736	40, 1,8, 8, 814, 82, 88 814, 84, 84, 84, 84, 84, 84, 84, 84, 84, 8
10, 682 49, 400 5, 059 5, 955 144, 048 265, 688 165, 950 165, 950					9, 390 157, 865 14, 650 488, 808	22, 24, 500 445, 282 23, 48, 283 23, 44, 65	6,952 6,952 1,577 40,577 32,622
9,976 49,400 5,009 5,609 143,583 165,711				591, 070	9, 330 157, 790 14, 645 488, 808	24 411 376,864 6,172 33,414	4, 520 6, 927 40, 1937 1, 577 1, 178 32, 421
12, 825 128, 550 56, 184 6, 054 61, 687 149, 410 305, 839 193, 186		16, 061 138, 997 1, 587 1, 262 2, 354 53, 852		62, 370	240, 074 29, S72 642, 840	134 22, 315 19 594, 228 6, 905 47, 197	22, 22, 23, 24, 25, 26, 20, 20, 20, 20, 20, 20, 20, 20, 20, 20
Boot and shoe findings, exclusive of those produced in boot and shoel shorled.  Boots and shoes, not including rubber boots and shoes.  Boots and shoes, rubber.  Boxes, paper and other, not elsewhere specified.  Boxes, worden packing, except dign boxes.  Brass, brozze, and copper products.  Brass, brozze, and copper products.  Brick and title, forms-ortis, and fire-jes wordings.		Canulis and preserving, fish Canning and preserving, fish Canning and preserving, fruits and vegetables Canning and preserving, oystens Card cutting and designing Cardboard, not made in paper mills Carpets and rugs, other than rag.	Cartylets, range and wagon materials. Cartiages and wagon, children's. Cartiages and wagons, including repairs <sup>16</sup> Cars and wagons, including repairs <sup>16</sup> Cars and general shop construction and repairs by	ction and repairs luding operations	Cars, steam-railroad, not including operations of railroad companies.  Cash registers and calculating machines.  Cement.  Charcoal, not including production in the jumber and	that done in potte	Clocks Cloth, sponging and refinishing Clothing, horse Clothing, horn's Clothing, men's, buttonholes Clothing, women's. See footnotes at end of Table 34, p. 177.

Table 33.—Amount of Primart Horsepower Installed in Individual Industries, by Census Years, and Per Cent of Increase, by Cable 33.—Cambined

[See note at head of this table, p. 158]

Rease ()	riod	1994- 1899- 1909 1904	24, 24, 25, 26, 21, 25, 26, 21, 26, 21, 26, 21, 26, 21, 26, 21, 26, 26, 26, 26, 26, 26, 26, 26, 26, 26
PER CENT OF INCREASE OR DECREASE	Intercensal period	1914	1
INCREAS	Inte	1914-	1
CENT OF		1919-	• 8844 8-46-4887-47-88824884 84-64-44-84
PER	24-year period,	1923	130.1 130.1 130.1 110.2 110.2 1247.6 110.2 1
	r than	1899	(e) 226 226 226 227 227 227 227 227 227 227
	power other than	1904	(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c
OWER	or rented p electric	1909	(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c
PRIMARY HORSEPOWER	Including data for rented electric	1914	(4) (4) (4) (4) (4) (4) (4) (4) (4) (4)
PRIMA	Includ	1918	(3) 28/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/
	data for cower electric	1918	88 339 22 705 22 705 22 100 22 100 22 100 22 100 22 100 22 100 22 100 23 100 24 100 25
	Excluding data for rented power other than electric	1923	75.089 28.28.28.28.28.28.29.29.29.29.29.29.29.29.29.29.29.29.29.
	MDUSTRY		Cool-tar products.  Coffice and spice, roesting and grinding.  Coffice and spice, roesting and grinding.  Coffice and spice, roesting and undertakers' goods.  Coffins and culfs, men's.  Combos and hairpins, not made from metal or nubber.  Combessed milk.  Confectionnery and ice cream.  Coopperage.  Cording and spicer-iron work.  Cording and twine.  Cordinalise and thaver.  Cordinalise and twine.  Cordinalise and twine.  Cordinalise.  Cordinalise.  Cortinolise.  Cortinolise.  Cortinolise.  Cortinolise.  Denial goods.  Curcubles.  Cortinolise.  Denial goods.  Curcuping and dispining textiles, exclusive of that done in extile mills.  Dyeng and finishing textiles, exclusive of that done in lextile mills.  Dyeng and finishing textiles, exclusive and supplies.  Dyeng and finishing textiles, exclusive of that done in extile mills.  Dyeng and finishing textiles, exclusive and supplies.  Dyeng and dinishing textiles, exclusive of that done in extile mills.  Dyeng and dinishing textiles, exclusive of that done in Excitle mills.  Dyeng and dinishing textiles, exclusive and extracts, natural.  Electrical machinery, apparatus, and supplies.  Emery and other abresive wheels.  Emery and other abresive wheels.  Emery maneling.

67.5	98.9	21.3 8 6.13	54.5 30.0	24.4	24.1	17.8 264.3	438.5	17.0	18 18 18 18 18 18 18 18 18 18 18 18 18 1	81.0	1.1	119.8	144.9 42.8	1815	125	1 2 2 3 3 3 3	% 6.69 8.40	1		100.8	0.00	39.6 14.5	46.2 2.8		169.6 51.3	47.4	16.1 26.5	
-25.6	111.6	- 13 45.7	4.9	16.9	34.8	25.45 0.45 0.45	8.6 0.6	48	464	95.9	8 8 9 9	6.3	38	10 t	-14. 86.0	170.2	क्षुं इ.स.	-	ر م م	0,4	9	96.7 29.7	126.5		251 8.26 2.26	25.7	8.0° 8.0° 8.0°	
42.2	107.5	4 <del>8</del>	84 12	5 5 8 8	76.6	. 19.5	81.9 86.8		88.0	1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	300 200 200 200 200 200 200 200 200 200	52.0	13.6	ळ	ာတ ပါကီ	80 82 83	S S S S S S S S S S S S S S S S S S S	-	8.4 24.2	14.7	200	3, 65 20 00 20 00	8 8 8 8 8	73.2	8, 4, 8, 2, 4,	27.7	15.3	
61.2	4	1 88 2 E	12 95.59	91.0 16.8	10.2	35.0 250.1	118.7	isi įsi įsi	130.8	87.7	94. 98.	¥.Ω. 4.∞	ල දැ ලු ර	147.1	17	38:	7.7	-	25	27.5	9 1	186.1	21 & 2 =	1 1 1 1 1	75.0	28.5	6,8 9 9	
34.0	7.2	39.0	6.5	-18 8.33 1.13	28.5	99	49	9	3.45	10.0	\$\ \$\ \$\ \$\ \$\ \$\ \$\ \$\ \$\ \$\ \$\ \$\ \$\ \$	-19.3 2.8	ਜ ਜੰਲੀ ਵਿੱਲੀ	4.5	43,1	हु <del>द</del> ्	9 9	-6.6	88 8 2 4	4 2 2 2	1 1	47.1 63.7	i i	37.1	-85.7 12.0	39.1	13,5	
282.8	795.2	473.8	8 8 8 8 8 8 8	161.8	318.4	130.9 248.5	4, 648. 6	225.1	98 98 88	1,054.5	387.1 120.8	374.0	598. 5 319. 8	958.3	206.2	1, 652, 0	128 7.50 7.70		102.0	263	8 9	88 85 7 7	215.1		0 8 8 8 8	240.0	1889 1880	
616	649			.,5 841 1,8				280	187	15,485	200 200 200 200 200 200 200 200 200 200	- 1206	1,250	1,083	4, 631	31, 797	52,943 2,098	8		6,806		85.5	2,83			30e 33, 668	2, 986 1, 770	
1, 032				9,736			347	86	600	28,162	487, 148 3, 543	1,994	3,061 163,614	1,260	2,192	1,602	91, 476 3, 973	8	35,735	14,280	2	-, 588			29 171	33, 417	4,4, 238 88	
768	2, 732	3,091	3, 219	11, 405	6,71	7,7	215	889	1,147	38,5	900. 4,900.	-101 88	211, 438	2,103	9,6	8,4,8 8,83	4, 897			15, 596		1,438			218	4, 831	4,67 9,22 2,22	
1,092	5,670	, o,	4, 778 886 886	14, 056	114, 281	8,821 7,474	391	1 470	832	(8) (8)	, 4, 694 2, 4, 694 3, 694 3, 694	- - - - - - - - - - - - - - - - - - -	240,880 865	2,275	10,	5,71	163, 139 5, 539		41,630	13,304		7.7. 3.89 5.53				53, 411	4, 2, 4, 134 14, 134 14, 14, 14, 14, 14, 14, 14, 14, 14, 14,	
1,760	5, 420	7, 187	7, % 1,8%	16,411	125, 939	26, 167 26, 167	1,005	3 876	276, 1320	150,230	, 6,6,7	5,327	262, 703	1,621	9,910	8,601	5, 110		6,5,5 8,8 8,8 8,8 8,8 8,8 8,8 8,8 8,8 8,8	16,979		7,445				1, 474		
1,750	5,353		8,657	16,41	125,939	26, 167	1, 885 865	3 378	1,920	149, 669	. 040, 200 . 6, 327 . 6, 327	, or o	5, 659 8 265, 064	5. 2. 2. 2. 2.	10,	6,89,194 1,086 1,086 1,0	5,042	3,364		16,979		7,45				81,848 67,094		
2,345	5, 738	9,90 8,90 8,90 8,90 8,90 8,90 8,90 8,90	8,89,	20, 522	161, 774	15,155	1. 828	748	877	at 178, 132	7,736	. 4.	25 470	7,776	13,818	7,364	4, 732	3, 143	4,372	24, 708	{ ·	4,4,	2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,	1,333	103	78, 571	5, 398 4, 749	
Engraving and diesinking.  Engraving, steel and copperplate, including plate		Envelopes.	Fancy articles, not elsewhere specified	Felt gods.	kettlizers	rues. Firearms	And exchiguishers, chemical. Fireworks	Flags and banners Flavoring extracts	Flax and hemp, dressed Flour-mill and grain-mill products	Food preparations, not elsewhere specified	Foundry Supplies.	Fur goods.	Furniture goods, men's "	Furs, dressed Galyanizing and other coating processes	Gas and electric fixtures	das machines and gas and water meters	Glass, cutting, staining, and ornamenting.	in textile mills	Glucose and starch	Glue, not elsewhere specified	Gold and silver, reducing and refining, not from the	Graphite, ground and refined	Grease and tailow, not including lubricating greases—Grindstones	Haircloth	Hair Work Hammocks	Hand stamps Hardware	Hardware, saddlery Hat and cap materials	See footnotes at end of Table 34, p. 177.

Table 33.—Amount of Primary Horsepower Installed in Individual Industries, by Census Years, and Per Cent of Increase, by Census Teriods: 1899 to 1923—Continued [See note at head of this table, p. 158]

		. :	PRIMA	PRIMARY HORSEPOWER	OWER			PER (	PER CENT OF INCREASE OR DECREASE	NCREASE	OR DEC		I
DATOUSTRY	Excluding data for rented power other than electric	g data for power n electric	Incluc	ling data fe	Including data for rented power other than electric	ower other	than	24-year period,		Interc	Intercensal period	poi	
	1923	1913	1919	1914	1909	1904	1899	1923	1919- 1923 1	1914-	1909-	1904-	1899-
Hats and caps, other than falt, straw, and wool———Hats, fur-felt Hats, straw	1, 782 18, 488 3, 673	20,377	1, 687	20,339	19,245	16,630	11, 843	-45.2 56.2	10 00 00 00 00 00 00 00 00 00 00 00 00 0	26.0	100 to 10	24.2	-75.5
Hats, wool-felt. Hones and whetstones.	2,762	9,1, 19,2	1,164	3, 091 1884		1,847	2,324	8.9	- <del>20</del> -	1 1 2 2 4 4 80 F	32,2	:8;    -	20.5
Horseshees, not made in steel works or rolling mills.  House-furnishing goods, not elsewhere specified Ite manniactured	1,341	3,874	12,249	11,1	1,0,1	8,748	8,5	25.55 25.55	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	. 6.4 6.4	88	H 60	864 425
	44. 85.68	10, 229	10,353	7,821	5, 857	3,38,0	1,895	488 8 8 8 8 8	\$ <b>4</b> 4 5 8 <b>6</b> 6	설명 [ 0 4 년	25.4 23.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4	355 2 2 3 3 5 1 3 5 1 3 5 1 3 5 1 3 5 1 3 5 1 3 1 3	1,280 1,280 1,080
d and scientifinces.	16, 203 191,832, 919 4, 110, 173	12,981 1,581,407 3,818,167	13,020 1,581,432 3,820,917	6, 799 191,222, 273 2, 706, 553	4,856 1,173,422 2,100,978	2,110 773,278 1.649,299	2, 471 497, 272 1 100, 801	268.6 268.6	42.7. 8.9.6.	. 12.62.4 10.44.6	3.4.% O 81%	130.17 14.17	-14.6 25.5 49.8
fron and steel, bolts, nuts, washers, and rivets, not made in rolling mills.  Iron and steel, cast-fron pipe.	48,036	49,959	49,959	86,50	22,113	13,825	9,165	424.4	6, 5 8 4	62:	30.7	59.9	50.8
Iron and steel, doors and shutters	3,981	4,013	4,013	3,170		969	223	1,685.2	<sup>K</sup> ∞0 S I	18	389	106.1	334.5
Foling muls.  Iron and steel, nails and spikes, cut and wrought, including wire nails not made in steel works or roll.	136, 922	100, 996	101, 951	38, 215	27,803	16,069	7,697	1,696.2	35.6	166.8	37.4	73.0	108.8
ing mills. Iron and steel, tempering and welding	10,275	8,971	8,974	(19, 235	7,723	10, 533	12,853	-20.1	14.6	9.0	8.9	-26.7	-18.1
Iron and steel, wrought pipe Ivory, shell, and bone work, not including combs and	40, 912	23, 925	23, 825	17,542	20, 656	15,094	11,717	249.2	77.0	36.4	-15.1	36.8	28.8
	80.08	879 306	311	22		1,247	973	-1.9 629.7		34.7	23.4	1.26.5	28.2 800.0
Jeweiry Jeweiry and instrument cases	16,851	15,096	16,389	15,686	11,204	7,872	6,656	174.8		4.6	39.8	£2.5	18.3
Jute goods. Knit goods	24,174	32, 135 149, 438	32, 135 151, 601	28,628 125,842	20, 993 103, 709	18,810	8, 191 57, 346	195.0	1 1 1 1 1 1 1 1 1 1 1 1	25	88.5	HI.	120.75 9.65 9.44
Labels and rags. Lamps and reflectors. Lapidary work	4,538 16,716 566	4,633 680 880 880	12,708 12,708 680	8,8,8 8,89,83 8,60,83 8,60,83	1,589 6,207 679	3,252 552 554	2,360	1,065.5 613.0 166.9	21.25.51 2.4.55.4.55	24.7. 0.1.0	39.5 19.5 6.2 6.2 6.2	5,8,8 00.0	134.4 37.8 161.3

Table 38.—Amount of Primary Horsepower Installed in Individual Industries, by Census Years, and Per Cent of Increases, by Cansus Years, and Per Cent of Increases,

[See note at head of this table, p. 158]

T		1899	48 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
CREASE	rriod	1904-	85.5.4.1.6.9.5.9.8.8.8.8.8.8.8.8.8.8.8.8.8.8.8.8.8
E OR DE	Intercensal period	1909-	
INCREAS	Inter	1914-	4481-88886-514484486448444644686468646468646468646468646464646864
PER CENT OF INCREASE OR DECREASE		1919- 1923 1	1, 3, 7, 0, 8, 1, 1, 8, 1, 1, 8, 1, 1, 8, 1, 1, 8, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
PER	24-year period,	1923	10, 688, 82, 82, 83, 84, 11, 10, 688, 82, 83, 83, 83, 83, 83, 83, 83, 83, 83, 83
	than	1899	2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2
	ower other	1904	1,008,708 110,022 110,022 110,022 110,022 111,022 111,023 110,
OWER	Including data for rented power other than electric	1963	28, 28, 28, 28, 28, 28, 28, 28, 28, 28,
PRIMARY HORSEPOWER	ing data fo	1914	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
PRIMAR	Includ	1919	1.88.1 1.98.2 1.98.2 1.98.2 1.98.2 1.98.2 1.98.2 1.98.2 1.98.2 1.98.3 1.98.
	data for power 1 electric	1919	1,886 8,68,68,68,69,69,69,69,69,69,69,69,69,69,69,69,69,
	Excluding data for rented power other than electric	1923	7, 178, 628, 7, 178, 628, 7, 178, 628, 7, 178, 628, 7, 178, 628, 7, 178, 628, 7, 178, 628, 7, 178, 628, 7, 178, 628, 7, 178, 7
	INDUSTRY		Paper and wood pulp.  Paper patterns Paper patterns Paper patterns

Regalis, and society badges and emblens.  Rice, eleaning and polishing.  Robing materials.  Rither frees tribus and mither code and eleanthone	1, 160 22, 220 39, 598	25, 340 39, 247	1, 333 27, 382 39, 327	665 15, 571 11, 702	784 19, 519 9, 431	15, 860 23, 022	205 7, 546 18, 217	470.9 218.3 117.8	1 1 2.23 2.83	75.9 75.9 236.1	75.52 24.25 24.24	55.00 50.00	231, 7 116, 3 26, 4
Specified. Railes, ivory and wood.	11 549, 450	1 379, 873	354, 188					1, 154, 1		133, 1	92.2	63.4	18.5 5.0
Saldnery and namess. Safes and varits. Salt	7,761	8,7,6 8,42 8,42 8,42 8,43 8,43 8,43 8,43 8,43 8,43 8,43 8,43	0,1,6 2,2,2 2,2,2 2,2,2 2,2,2 2,2,2 2,2,2 2,2,2 2,2,2 2,2	0, æ, 8 9, 99 9, 99 9, 99 9, 99	11,24 25,52 3,52 3,52 3,52 3,52 3,52 3,52 3,5	7,370	0,4,8	25 85 81 85 85 81 85 81	400	0.00 0.00	55.45 5.67	85.58 8.08 8.09	8 8 8 8 8 8 8
Sand and emery paper and cloth Sand-lime brick			3,977					311. 6		5 FR	400 400	195.8	28.2
Sausage, not made in slaughtering and meat-packing establishments					6.975			0.624	5 6	1 8	36	1 6	. E
Saws. Scales and balances.					11,852			143.0	000	50 8	# 200 00 \$1	5 88 8 6 88 8	38.5 4.0 4.0
Screws, machine Screws, wood.	.85. 55. 55.	23, 517	23,540	7, 988 9,044	3, 319 5, 618	3,201 3,715	1,407	1, 959. 6	233	12.2	15.7.	300 12	127.5
Sewing-machine cases. Sewing machines and attachments					5,026			87.6	115	76.7	8,5	8 -	240.1 28.0
Shipbuilding, steel Shipbuilding, wooden, including boat building					57, 697			622.0	. 50	1,48	4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.	in s	1 K 2
Shifts Show eases					12,656			86	50-	15.2	त्रा रहे	15;	12. 12. 13. 13. 13.
Signs and advertising novelties					4,00 8				11~	م م	- 15 135 1	- F	231. 7
Silk goods, including throwsters Silversmithing and silverware.					7, 947			265.4	04	15.2	40,0	36. 17. 21.	25.0
Slaughtering and meat packing.					202, 432			350.5	90	43	18'8 0°	4.6	36.4
Smelting and refining, lead					3,8,6 3,8,6			174.4	5 (-)	5 % 1 %	. e.	0.0	57.1
Smelting and refining, not from the ore		1,7,1			10, 705			11.9	र्षं क	-21.4	-5, 9	-37.4	98.2
Smelting and remning, zinc. Soap					23, 457			327.4	100	100.5	7.5 26.0	16.6 20.2	65.1 15.5
Soda-water apparatus Sporting and athletic goods				3,726	2,89 4,89 4,89 4,89 4,89	1,533	1,183	259.6	96	57.3	8,4	00 m 00 00	8.5
Springs, steel, car and carriage, not made in steel works or rolling mills								9			9	,	
Stamped and enameled ware, not elsewhere specified	88;	125°	5,45	34,767	27,829	,01,0 888	16,587	312.8	388		100 28:	175.9	98.5
Statuary and art goods.								0.0.0	o F S S S S	40.3 -17.2	0 86 0 86 1	를 I 6	8
ratus		4	-				6,510	1, 299. 8	35.0	74.7	17.0	208.6	64.3
Steam packing Steel barrels, drums, and tanks, portable	7, 671	10,28	10,554	17, 254 (fg)	1129	3,846	4, 488	293.6	125.0	55. 1	55.0	25. S	97.1
Steroits and brands Stereotyphie and electrotyphie		- 4					156	747 5	9 06	9.0	88 F	20.0	151.3
Stoves and hot-air furnaces.		64°						9 70	igi Sigi	8	चंदां ह	14:	
Structural ironwork, not made in steel works or rolling									o i	5 21		40.4	10% 1
milis Sugar, beet	205, 518	165, 179	127,3947	109, 374 76, 705	22,238 21,238 21,288	35, 719 35, 490	19, 673	945 783.6	र्य सं	8 8 10	ल न % रहे	<u>ज्</u> रत	188.3 145.4
See footnotes at end of Table 34, p. 177.									- 2			,	

Table 33.—Amount of Primart Horsepowee Installed in Individual Industries, by Census Years, and Per Cent of Increase, by Cantured Transport of Services of Century of

[See note at head of this table,	PEMARY HORSRPOWER	Excluding data for Including de rented power other than electric	1923 1919 1914	Sugar, cane   Sugar, cane
his table, p. 158]	RSEPOWER	Including data for rented power other than	4 1909	88 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
		ower other tha	1904	11
		n 24-year period,	189	[52, 569 ( -2x, -2x, -2x, -2x, -2x, -2x, -2x, -2x,
	PER CENT OF INCREASE OR DECREASE (—)	ear od,	1919 1923 1923	1
	F INCREA	Inter	1914- 1919 2	1
	SE OR DEC	Intercensal period	1909- 1914	大名数数数
• • • • • • • • • • • • • • • • • • • •	REABE (-	riod	1904-	4 급등 1 경우 전 8 경 기 본 2 경 8 경 급 기 경 4 전 6 기 경 6 전 8 경 기 본 2 경 8 전 8 전 1 경 8 전 8 전 1 경 8 전 8 전 1 경 8 전 8 전 1 경 8 전 8 전 1 경 8 전 8 전 1 경 8 전 8 전 1 경 8 전 8 전 1 경 8 전 8 전 1 경 8 전 8 전 1 경 8 전 8 전 1 경 8 전 8 전 1 경 8 전 8 전 1 경 8 전 8 전 1 경 8 전 8 전 1 경 8 전 8 전 1 경 8 전 8 전 8 전 1 경 8 전 8 전 8 전 1 경 8 전 8 전 8 전 8 전 1 경 8 전 8 전 8 전 8 전 8 전 8 전 8 전 8 전 8 전 8
			1994	8 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

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## APPENDIX B-GENERAL TABLES

see footnotes at end of Table 34, p. 177.

Table 34.—Growth of Manufacture in the United States as Measured by the Value of Products of Individual Industries, by Census 1989 to 1923

As to the comparability of 1921 and 1923 figures with [The italic figures include establishments with products valued at less than \$5,000 to avoid disclosing individual industries. those of previous years, see general remarks preceding tables, p. 124

			VALUE		OF PRODUCTS (EXPRESSED IN	SED IN THO	THOUSANDS OF DOLLARS	DOLLARS)			
INDUSTRY	Excluding data with products \$5,000	xeluding data for establishments with products valued at less than \$5,000	for establishments valued at less than	Inc	Including data for establishments with products valued at \$500 or more	for establis	nments wit	h products	valued at \$	500 or more	
	1923	1921	1919	1919	1914	1909	190€	1899	1889	1879	1869
All industries	60, 355, 998	43, 653, 283	62, 041, 795	62, 418, 079	24, 246, 435	20, 672, 052	14, 793, 903	11, 406, 927	9, 372, 379	5, 369, 579	3, 385, 860
Agricultural implements	151, 286	163, 817				146, 329	112, 007	101, 207	81, 272	68, 640	52, 067
Aluminum manufactures. Ammunition	106,930	45,822				<b>3</b> 33	19 19 19 19		(6)	(6)	(6)
Artificial inowers Artificial limbs: Artificial stone products	19,650 2,635 605	14, 188 2, 451 31, 768				19,4,6	5,247	6,293 750	6 9, 079 476	64,879	166 168
Artists' materials Aspestos products, not including steam packing Antomobile hodies and nexts	8,8,83 8,83 8,83 8,83 8,83 8,83 8,83 8,	13,98 14,98 16,98	969 969 969 969 969 969	8,72,84,84 4,858;	45.00 45.00	5,24G	4, 1, (e) 139 138	(3) (497	532	වෙ	\$ ©
Automobile repairing.	(e) (e)					35, 37g	(E)				
Automonues Awings, tents, and sails Babbitt metal and solder	3, 163, 328 45, 276 41, 487	1, 671, 387 37, 012 28, 255	2, 387, 879 45, 059 58, 998			198, 823	26, 645	4, 748 9, 144 0, 191	7,829	1,969	2,881
Bags, other than paper, not including bags made in taxtile mills.	151, 676	115, 452				54,882	37 399				010
н:	42, 272 51, 691	41, 190 52, 886	47, 249	47, 264		15, 698		6, 799	5,024	4,113	1-1 24.9
Baskets, and rattan and willow ware. Bells.		17 17 18 18 18 18				5,695					1,106
Belting and hose, rubber	(II) 3 3, 312	(11) 6, 390				19, 238			5,513		670 tr
Belting, leather Billiard tables, bowling alleys, and accessories	37, 723 6, 236	19, 168	40, 457	40, 481		23, 692 5, 878	14,220		8,634 8,834	6, 526	4, 558
Bluing.	1,822	18,453				8, 419					
d lamp black	14, 600 76, 959	8, 181 63, 854		6, 186	38, 104	1,093	25, 224 25, 224	360 20, 791	1,031	11, 977	19 <u>4</u> 14, 077
in boot and shoe factories	89, 291	72, 692	161, 169	161, 203	59, 965	44, 661	27,676	23, 243	17, 904	7, 532	

3,654			4,82 955		2 2 2 3 3 3	ور در	©	<u> </u>	<u>)</u> ©,	 ⊙	:	21,762	265	65, 363	ව				2,034	වෙ	වෙ	9	323	2, 510	148, 660	
2,936	56, 050 9, 706	.23	7, 666 12, 687	6,832	12 32, 834	10,561	13 25, 743	4,450	)e,	(s) (s)	: :	31,793		1, 678 64, 952		1		27,998	(m)	976	38,640	· 6	1,302	4, 110	695 209, 548	
6,805	220, 649	7,092	18, 805 25, 513	18,056	12 67, 771	14, 156	13 60, 636					47,770	16, 262	102,680	2,966	129, 462	3,302	70, 084	1, 423 (tr)	· ලදි	59, 353	848	4, 222	4, 229	1, 572 251, 020	
7,835	258, 970	5,857	27,316 38,164	28, 654 175, 369	12 51, 270	18,484	18 130, 783	1.5 198	18, 178	3,427 1,253	618	48, 192	25, 027	113, 235	9, 371	218, 114	7,305	90.510	5, 675 (17)	1, 134	48, 159	485	9, 866 2, 193	7, 158	1,305	
9,905	320, 107	7,786	36, 867 57, 048	102, 407	u 71, 152	21, 104	118, 521	11,134	18.9 18.9	, 88 1988	1,083	61,586	30, 536	6, 371	13, 437	309, 775	10,844		9,875 20,873	1, 292	75, 357		2,710	888 1.	2, 139 355, 797	,
25, 505	442, 631	8,491	75, 342	396, 989	12 92, 777	14, 432	194, 999	. 22°	25, 514	91, 439	18	7,188	37,788	8,805	31, 963		7,810		8,708 205,708		117, 741 (20)		22, 390 6, 260		4, 135	
28, 303			74, 711													_	10, 495		30, 520		158, 745 158, 054 17, 160		35, 713 9, 152		5, 150 458, 211	
62,825			206, 419														18,442		83, 539		574, 141		139, 258		6,021	
62, 680	1, 154, 891	13,045	206, 281 177, 429	482,036	207, 565	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	582,909	41, 513	77, 177	400, 517	286	123, 254	28,283	24, 468	74, 990		18,442		83, 527		438, 561				8,009 1, 161, 714	
39, 117			174, 248														14,856		23,653		19 314, 871 38, 885				3,835	
48, 012	1,000,078		284, 209 162, 858																95, 106		190, 765 19 500, 282 40, 871				5,137	
of those produ	Books and shoes, not including rubber books and	Boxes, cigar	Boxes, paper and other, not elsewhere specified Boxes, wooden packing, except cigar boxes	Brass, bronze, and copper products.	Brick and tile, terra-cotta, and fire-clay products	Brooms	Butter	Buttons Buttons	Canning and preserving, fish	Canning and preserving, fruits and vegetables	Card cutting and designing	Cardboard, not made in paper milis.	Carpets, rag	Carriages and sleds, children's	Cars and general shop construction and repairs by electrical property can be constructed and repairs by	Cars and general shop construction and repairs by	Cars, electric-railroad, not including operations of	Cars, steam-railroad, not including operations of	rancau companes Cash registers and calculating machines	Charceal, not including production in the lumber and wood-distillation industry	Cheste Charles 11	Chief and State of the control of th	Checiste and cocoa products Cleansine and rollishing mergarations	Chocks	Clothing, horse Clothing, horse	CIVELLIES, MICH STATES AND ACCURATE A 1977

See footnotes at end of table, p. 177.

Table 34.—Growth of Manufacture in the United States as Measured by the Value of Products of Individual Industries, by Census Years: 1869 to 1923—Continued

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			VALUE	s of PRODUCES	S (EXPRESSED	Ħ	TEOUSANDS OF 1	DOLLARS)			
INDUSTRY	Excluding data fo with products va \$5,000	H.2	establishments ued at less than	Inch	Including data for		establishments with products valued at	products v	alued at \$500	00 or more	
	1923	1281	1919	1919	191∉	1909	1904	1899	1889	1879	1869
Clothing, men's, buttonholes.				1, 208, 543	638 473, 888	781	700	681 159,340	784 68, 164	32,005	© 22
Coal-tar products Coffee and spice, roasting and grinding	130, 588 297, 528	28,897 28,987	135, 448 304, 670	304, 204, 792	(15) 150, 749	110, 533	(15) 84, 188 30, 368	(18) 22 (29) 23)	22 75, 042	12, 925 0, 925	2 (3) 2 11, 266
Colims, Durial cases, and undertakers goods						95, 697		35,585	16,498	, 2, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5,	4,1,6 132
Counts and carry, men second country of country and hairpins, not made from metal or rubber.						8,376			1,021	981	889
Confectionery and ice cream						3 134, 796			20 55, 997		
Copper, tin, and sheet-iron work						89, 388		3 63, 813	3 56, 654	4,00,t	3 42, 357
Cordials and flavoring sirups.						9,662			1,903		
Cork, cutting Corsets.						33,257			12,402		CO)
Cotton goods Cotton lace						515, 218			267, 982	210,950	177, 490
Ootton small wares. Crucibles						13, 174				1,446	1, 117
Cutilery and edge tools. Dairymen's, poultrymen's, and apiarists' supplies					25, 541 18, 950	15,885	6,545	14, 787 (6)	.1. .9. .5.	(3)	er 10
Drug grinding						10,950 6,007		99, 121		TOO .	0.0
Dyeing and finishing textiles, exclusive of that done			900 014		100 000	200 100			5 6	39 907	(8)
Dyestuffs and extracts, natural Ploching months are conserved.			58,733 733		20,620	15,955	10,893	7,351	9,293	252	5,46 678
ners, autr			10,015		4, 773	4, 510	2,965	2,720	122	1,976	.e.
Emery and other abrasive wheels Enameling			20, 50, 50, 50, 50, 50, 50, 50, 50, 50, 50, 50, 50, 50,		2, 130 2, 168	6,711 2,985	15,700	9,979	88	183	1,07
Engines, steam, gas, and water. Engines, steam, gas, and water. Enginyers' maderials. Frame with a placinking	266, 998 2, 303 9, 121	199, 499 1, 817 4, 850	464, 716 2, 239 6, 667	464, 775 2, 248 7, 351	72 788 188	(10) 921 2,250	(10) 171 2,422	(10) 1. 282 1. 468	(10) 2, 187	(3)	මු මෙමේ මෙමේ
talklidying and assumente					•	2746		1111		,,,,	

	(2)	one of	2,278	(S	ව	(12)	5,815	1,649 89	0,000	880		815	# 88		ව								268			1,594	1,411	848	100		8	1, 972	43	23,237	188 188 188	
	2, 990	125	5,001	2,817	©	(E)	23, 651	2, 487	202	1,391	1.198	1,310	2, 493	215, 442	216	102	9,924	77, 846	1,885	4, 330	-(3)	21, 155	2, 535	(8)	7,380	12,029	1,614	9,548	210	13,730	3	1,468	319	22, 654	2,217	
	3, 348	1, 555	11,836	4,810	9	#E	39, 181	3,180	138	593	2,615	186	14, 105	415,335	672	20, 527	29, 570	111,743	2,957	7,826	28,58	41,051	6,090	(92)	10,104	16,691	2,978	32, 036						26, 726	3,466	
	š, 101	614	17, 125	9,046	§ ©	(H)	44, 657	3,404	218	1,785	6,308	159	30,037	649, 036	- (s	25,899	28, 577	125, 316	2, 471	11,480	75,717	56, 540	8, 750	(38)			2,666							35,847		
	5,943	989	20,22	11,962	(P)	(E)	56, 541	8,392	283	1,987	7,772	347	61, 180	685,894	9,169	37, 119	36,445	170, 447	6,419	17, 560	5.55 5.55 5.55	79,608	13, 138	E		32,650	2,695							45,770		
•					14, 939	(E)	103, 960	5,691	754	2,269	-1.00 2.00 2.00 2.00 2.00 3.00 3.00 3.00 3	467	125,331	883, 948	2,288	55, 938	42, 130	239,197	7,338	29,844	13, 814 13, 308	92,085	16, 101	(8)			7,630							64, 912		
	13, 786	612	41, 433	17, 659	11, 451		153, 196	9, C	1,298	2,296	1,38	283	19,00	866, 545	2, OI3	43,633	52, 453	265, 706	8,480	28,740	15, 255	123, 085	16,446	(36)		52, 615								330		 •
•	24, 209	1, 154	92, 475	64, 055	15, 378	38, 384	281, 144	30, 181	5, 563	4,630	30, 117	2,369	631, 598	2, 659, 679	9,935	173, 138	136, 055	571, 356	14, 476	42, 268	28, 263	261, 884	28, 443	9		186, 256								154, 525		
	23, 958	1,089	92,475	63, 770	15, 533	\$8,584	281, 096	36, 500	5, 550	4, 593	29,846	9,269	630,689	2, 284, 907	2,036	172, 506	107, 725	25 578, 637	14,464	42, 209	523, 118 28, 240	261, 881	28, 097		. ••	186, 244		55, 448	2,227	267,000	3,315	25.5	3 OFO	154, 340	26, 472	
										4, 727		95		565,												21,249								116,689	11, 545	
-										7.97			2 473, 402												_	24,366	-							206,700		
Represente steel and conternate including alote	arch monage	Envelopes	Explosives	Fancy articles, not elsewhere specified	Felt goods	Ferro-alloys.	Fertilizers	Firearms	Fire extinguishers, chemical	Freworks	Flavoring extracts	Flar and hemp, dressed	Food preparations, not elsewhere specified	Foundry and machine-shop products 22	Fuel manufactured	Fur goods	Furnishing goods, men's 24	Fire drassed	Galvanizing and other coating processes.	Cas and electric fixtures	Gas machines and cas and water meters.	Glass	Glores and mittens, sloth not including elegant	in textile mills	Gloves and mittens, leather	Glue, not alsowhere specified	Gold and silver, leaf and foil	One and silver, reducing and remning, not from the	Graphite, ground and refined	Crease and fallow, not including lubricating greases	Haireloth	Hair work	Hand startus	Hardware, and along	Hat and cap materials	See footnotes at end of table, p. 177.

Table 34.—Growth of Manufacture in the United States as Measured by the Value of Products of Individual Industries, by Census Years: 1869 to 1923—Continued

[See note at head of this table, p. 168]

	i u		VALUE	VALUE OF PRODUCTS (EXPRESSED IN THOUSANDS OF DOLLARS)	rs (express	ED IN THOU	SANDS OF I	OOLLARS)			
IND USTR X	Excluding with prod	xeluding data for establishments with products valued at less than \$5,000	for establishments valued at less than	Incl	Including data for establishments with products valued at \$500 or more	or establish	ments with	products v	alued at \$5	00 or more	
	1923	1921	1919	1919	1914	1909	7067	1899	1889	1879	1869
Hats and caps, other than felt, straw, and wool— Hats, fur-felt Hats, wool-felt Honsehoes, not made in steel works or rolling mills. Honsehoes, not made in steel works or rolling mills. Honsehormshing goods, not elsewhere specified. Ice, manufactured Instruments, professional and scientific. Iron and steel, blast furneses. Iron and steel, blast furneses. Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills. Iron and steel, bolts, nuts, washers, and rivets, not rolling mills. Iron and steel, doors and shutters. Iron and steel, doors and shutters. Iron and steel, doors and shutters. Iron and steel, mals and spikes, cut and wrought, including when rails, not made in steel works or rolling mills. Iron and steel, wrought pipe. Iron, shell, and bone work, not including combs and nativins.	24.5% 28.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00				18 588 19 284 1 286 286 485 286 485 286 485 28 886 28 886 28 886 28 866 28 8	88 4 4 4 4 4 4 6 8 6 8 8 8 8 8 8 8 8 8 8	12, 25, 25, 25, 25, 25, 25, 25, 25, 25, 2		18. 37. 31. 31. 31. 31. 31. 31. 31. 31. 31. 31	(1) 8, 517 (2) 8, 517 (3) 224 (4) 1, 532 (5) 545 (7) 545 (8) 316 (9) 6, 542 (10) 73 (10) 73	(a) 1, 369 (b) 1, 369 (c) 2, 369
Jawelly and instrument cases Jate goods Labels and tags. Lapels and reflectors Lapidary work	10, 506 25, 421 26, 177 26, 229 57, 229 9, 130	17,036 17,506 634,074 19,338 29,164 4,345	24, 448 712, 749 712, 749 88, 040	24, 244 24, 244 24, 244 38, 039 30, 051	3, 621 16, 514 258, 913 6, 584 16, 638 5, 360	200, 148 200, 148 200, 148 4, 670 15, 218 9, 178	2, 292 9, 066 137, 076 2, 462 9, 000 7, 647	95,534 1,157 1,105 1,105 1,05 1,05 1,05 1,05 1,05 1,	1,454 1,120 67,447 1,048 4,039 316	29, 614 3, 358 3, 358	

6	13, 610	157, 238	8,917	36, 191	5.55 5.55 5.55 5.55 5.55 5.55 5.55 5.5	2,516	5,962	(5) 210 401	TOTAL STATE	# 86, 278 (g)	12,017	7 30, 234	3,540 2,540	වෙ	6, 513	4, 222	388	480	1,211	-	126	2,019			1,235	· (E)	2,206	882	15,340	4,414	433	ş
9	5,601	200, 265	17 5, 772	41,064	2, 169	6,912	9, 596	365	200	13, 425	18, 273	7 32, 446	4,668	25.00	9, 578	4. 85	1,456	304	1,021	-	17	854	18 401		1,748	9	7,691	15,394	9,308	1,062	6,893	
<u>-</u>	7, 239 8, 352	6, 292	17 15, 742 2, 880	104, 198	2,846	17,988	16,376	846	, ,,	103,082	8,443	7 65, 723	2, 194 261.68	15,684	18,047	14,354	2,847	6.001	25.0	900	1,277	1,889	34 080		6, - 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6	383	19,336	13 13 13 13 13 13 13 13 13 13 13 13 13 1	1,730	1,603	986	5
8	7,478							718		15/, 186						23,289			48.8		2, 556	3,395	41.016								12,500	
€	82.00									(30)	30,289	84,844	1,047	27, 755	85. 85.	30,251			4, 545		3,556										5, 574	
€	4,0,0 145,0									(10)						. 308 . 308			2,868		4, 918	3,228	68, 569	18, 475	266 266 266 266 266 266 266 266 266 266	338	147,868	36,739	31,73	7,526	8,148	•
	7,431															. 38. 401		10, 189	8, 605		5,695	38	62.73	19,876		359	212, 127	4,88	38,040	7,996	15,080	•
	12,471								EOO 450							135,341			25,200 26,200 26,200												79,816	•
	17,8 17,4 17,4 17,4 18,4 19,4 19,4 19,4 19,4 19,4 19,4 19,4 19															131, 153			2,52 24.52 24.52												79,815	٠.
	12, 377 10, 474 47, 715															115, 577			15,72 23,72 38,72												28,44 282,17	
	19,990 19,295 134												3,890			153, 195			30, 165												54,953	•
Lard, not made in slaughtering and meat-packing establishments-	Lead, bar, pipe, and sheet Leather goods, not elsewhere specified	Leather, tanned, curried, and finished.	Linen goods	Liquors, malt, including cereal beverages	Lighographing	Locomotives, not made by railroad companies	Looking-glass and picture frames.		ing mills connected with sawmills.	Machine tools	Marble and stone wash	Matches	Mats and matting, from cocoa fiber, grass, and coir-	Mattresses and bed springs, not elsewhere specified.	Millstones		Mirrors, framed and unframed, not elsewhere speci-		Motor cycles, bicycles, and parts.	Mudlage, paste, and other adhesives, not elsewhere	Musical instruments and materials, not elsewhere	Specified Musical instruments organs	Musical instruments, pianos	Musical instruments, piano and organ materials	Nets and seines	Oakum	Oil and cake, cottonseedOil, essential	Oil, linseed	Oilcloth and linoleum, floor	Olicloth, enameled	Ordentargarine and order butter substitutes.	See footnotes at end of table. p. 177.

Table 34.—Growth of Mantfacture in the United States as Measured by the Value of Products of Individual Industries, by Census Years: 1869 to 1923—Continued

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			VALUE	OF PRODUCES	rs (expressed	ă.	THOUSANDS OF 1	DOLLARS)			
, wordsnak	Excluding with proc \$5,000	data for lucts val	establishments ued at less than	Inch	Including data for	or establishments	with	products	valued at \$5	\$500 or more	
	1923	1921	1919	1919	1014	1969	1904	1899	1889	1879	1869
Ordnance and accessories.			69,496		(6)	(8)	558		2,425	(3)	16.932
Paper and wood pulp Paper goods, not elsewhere specified	907,347	667, 436 84, 129	788,049	788,059 107,285	332, 147	37,938	188,715 22,159	127,328	4,179	(6)	84 849 849
Faper patterns. Patent medicines and compounds. Payint materials			210, 184 210, 184 45, 200		102, 463	83,58 177,61	7.7. 2.25. 3.25.		32, 820	14,682	(c) 16,258 447
Pennuts, grading, roashing, cleaning, and shelling. Pencils, lead			33,327		8,996	9,737	4,426		(3)	(E) 622	(E) 181
Pens, fountain and stylographic. Pens, gold			15,979		6,865	3,542	2, 88,89 88,89		352 718	(e) 1833	(6)
Pens, steel Perfumery and cosmetics			59,231			14,212			,4 880 980	2, 203 203	2,030
Phonographs and graphophones			1,652,522		27,116	11,726	175,005	2,246	.65.001 (6.001	43, 705	26, 942
Photo-engraving, not done in printing establishments. Photographic apparatus.			(37), 276			1, 524			2,072	104	832
Photographic materials Pickles, preserves, and sauces			145, 426			37,334			76. 10.	2,407	
Pipes, tobacco. Plated ware.			11,514			18,526			11,583	8, 596	447 8,142
Plumbers' supplies, not elsewhere specified Pocketbooks	132,665 22,732	13,085	14,494			3,687			1,980	1, 769	1,108
					30, 943	ATT '01 :-	102, 201	44, 203	757, US/	776'8 =	<b>D</b>
ing and meat-packing establishments.	26, 424 738, 227	34,717 690,075	41,705		12, 917 307, 331	(5) 250, 926	(§) 182, 612	121, 798	93,908	90,970	(5) 41,076
Printing and publishing, music. Printing and publishing, newspaper and periodical					7,271	5, 576	4, 148 309, 302	2, 272 222, 984	1,683	වෙ	(ē) 25,393
Printing materials Poly from they other then mood					2,8	1,983	-18 264	1,088	1,450	- 123 -	(9)
Pulp goods Pumps, not including power pumps.	38 20, 436 (34)	31, 213	23, 602	23,608 31,656	4, 483 6, 350	5,583	1,467	1,367	4, 103	3,645 645	2,818

(10) 566 626 3,257	2,728 4,801	(4) (5)	2,824		(S. 21,4)		0003 7, 23, 23,	4555 8	40SE	)-(S)S R
(10) 1,740 1,816 3,133 6,227	38, 082 38, 352 4, 336	(11) (282 (11) (20)	2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2	36,800	1,172 (3) 41,633 2,518	308, 362 (E) E	1,0% 1,0% 1,0%	4, 25. 6, 5, 319 898 98	(3.5.128)	(S) (S)
(10) 4, 514 3, 204 6, 693 (3)	18, 709 154 52, 971 6, 642	1,250 (13) 3,056	. 44-1444 881-1444 88	38,065	97,238 6,238 6,435	77 (33) (33)	6,8,189 2,490 2,712	1, 4, 13 11, 723 1, 456 1, 456	23, 147 1, 003 (b)	2, 184 2, 138
(19) 5, 318 3, 049 8, 724 13, 691	33, 528 33, 748 7, 928	1, 176 (13) 4, 588	2,2,2,2,2,5 0,000 0 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0 0,000 0 0,000 0 0 0	24, 165 47, 123	2,468 107,256 13,506	783, 779 165, 132 175, 466	18, 188 18, 188 2, 231	3, 42, 14, 548 5, 066 (5)	25, 085 29, 494	3,772 (ii) 4,580
(10) 7,348 4,753 16,297 19,871	62, 996 249 42, 055 7, 861	1.48 1.48 1.18 1.18 1.18	. 0, 0, 0, 0, 0, 5 88 5 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	48,44,8 88,89	20,701 20,701	913, 915 240, 780 185, 827	©7,4%4, 6,4% 197,7% 197	2, 958 2, 958 2, 958 2, 417	24, 911 8, 952 (10)	7, 724 24, 409 27, 724
(39) 10,689 6,130 22,371 19,204	128, 436 144 54, 225 8, 491	(1) (1) (15,024	1,8,8,9,0,8 28,19,0,8 419,035,1	4,6,8,8,6,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1	7,167 13,546 196,912 23,702	1,355,544 378,806 167,406	6, 558 111, 358 15, 558	9,005 51,622 18,647 3,442	54, 084 12, 160 (18)	6, 384 55, 998 12, 856
17, 864 16, 052 5, 025 23, 039 27, 978	223, 611 634 53, 559 7, 257	2, 23, 25, 25, 25, 25, 25, 25, 25, 25, 25, 25	7.0°7.2°5.2°5.2°5.2°5.2°5.2°5.2°5.2°5.2°5.2°5	95,217 95,217 95,217	254,732 19,732 19,732	1,651,965 444,022 171,579	38, 38, 38, 38, 38, 38, 38, 38, 38, 38,		63, 922 14, 213 (4)	
53, 746 26, 049 9, 395 90, 038 85, 895	987, 088 481 83, 713 15, 294	1, 6, 1, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5,	18.09.4.4.4.6.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2	1, 456, 490	8,294 43,343 29,126	4,246,291 651,102 196,795	20, 075 50, 246 104, 123 316, 740 15, 185	51, 480 143, 654 58, 363 5, 020		15,919 15,919 145,718 55,792
26, 330 26, 038 9, 348 90, 031 85, 837	11, 021, 260 469 81, 480 15, 288	1, 568 1, 568 1, 568 1, 568	15,987 15,987 16,987 18,987	1,456,483	(26) 42, 722 688, 339 29, 118	4, 246, 228 651, 102 196, 795	29,924 10,128 11,010 11,133 11,131 11	5, 71 143, 620 143, 620 58, 288 4, 855	166, 259 40, 505 24, 343	15, 905 145, 685 55, 741
36,962 33,019 10,359 41,213 76,193	11 610, 870 1 534 30, 164 19, 726	1,462 1,230 1,230 1,230	(\$) 365 18,365 (\$) 419	356,215 44,619 203,944	(#) 53,271 28,419 24,411	2, 200, 942 234, 895 150, 594	7,060 15,150 37,483 240,195 15,407	31, 750 100, 585 94, 597 6, 667		17,359 101,573 42,713
89 92, 930 50, 076 10, 586 47, 068 84, 342	11 826, 778 759 42, 113 19, 101	86. 86. 86. 86. 86. 86. 86. 86. 86. 86.	8,4,8,1,6) 12,82,1,6) 14,82,1,6)	177, 703 25, 529 241, 331	(8) 761,284 782,383 783,984	2, 585, 804 636, 868 227, 735	276,4382 126,403 136,4	20, 392 170, 923 77, 689 7, 550	221, 954 32, 991 23, 249	20,596
steam and other power.  stors and society backes and emblems.  matherials.	tires, tubes, and rubber goods, not elsewhere ed and dood r and harness d vaults.	d emery paper and cloth brick. not made in slaughtering and meat-packing shments.	ud bakances. machine wood. medine casse	iding, steel lding, wooden, including boat building	888. da daverising novelties. da, including throwsters. hithing and silverware.	ering and mest packing g and refining, copper g and refining, lead g and refining, nickals, not elsewhere sneet-	g and refining, not from the ore g and refining, and ser apparetns	steel, car and carriage, not made in steel so rolling mills or rolling mills of and chambled ware, not elsewhere specified. ery goods, not elsewhere specified.	fittings and steam and hot-water heating states packing rrels, drums, and tanks, portable.	and brokatr furnaces and hot-air furnaces and solar furnaces formation of one of the formation of the format

Table 34.—Growth of Manufacture in the United States as Measured by the Value of Products of Individual Industries, by Census Years: 1869 to 1923—Continued

[See note at head of this table, p. 168]

			AALUE	OF PRODUCES	ni cesserata) si		THOUSANDS OF	DOLLARS)			
INDUSTRY	Excluding with proc	data for estal	establishments ued at less than	Inch	Including data f	for establish	establishments with	products valued at \$500 or more	alued at \$50	00 or more	
	1923	1931	1919	1919	1914	1909	1904	1899	1889	1879	1869
Structural ironwork, not made in steel works or											
	406, 117	250, 086	294, 633	294, 962	159, 378	133, 241	26,945	66, 927	37, 745	3,410	වදි
Sugar, cane Sugar, refining not including beet sugar			730, 987		22, 635		\$ 277,285	239, 711	123, 118	155, 485	108, 942
Sulphuric, nitric, and mixed acids			31, 470		15,215		9,053	8, 596	ව,	· ©	· ම
Suspenders, garters, and elastic woven goods.			96,5 21,5 21,5 31,5 31,5 31,5 31,5 31,5 31,5 31,5 3		12,			, 85 (8, 0, 35 (8, 0, 35 (8, 0, 35)	(8) (8)	£	D§
1 1			1,067		(m) 327		Œ	££	£	£	EE
Tin and other foils, not elsewhere specified			17, 912		3,068		2, 795 35, 795	1,393		417	E
Tinware, not elsewhere specified			23, 890		8,93		4,88	(S)	වෙ	වෙම	වව
Tobacco, ciewing and subking, and snutt			753,944		314,281		116, 768	163, 754	120,844	52, 793	38,388
Tools, not elsewhere specified			143, 660		33,893		20, 407	13, 358	10,528	4,237	
Trunks and valises			45, 387		13, 757		5, 578	15, 010	3, 750	1, 563	580
Turpentine and rosin			52,772		186		23,937	20,345	8,077	5,877	3,7
Typewriters and supplies			52,55 404 404		2, 2, 203.		10,23	2, % 2, 8, 8, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,	3, 917	4.6 88 98	% 18 18
Uphoistering materials, not elsewhere specified			38,53		13, 813		13, 296	2 13, 669 2 10, 048	13, 772 29 5, 733	6,917	4,822 3,545
Varnishes Vault lights and ventilators			83, 612		33, 215		23,562	18, 687	13, 796	5,721	4,991
Vinegar and cider			24, 032		7,811		7, 265	5,932	6,649	3,418	3, 472
Wall plaster and composition flooring			23,048		15,887		12, 637	10, 663	7, 432	6, 267	2,166
Washing machines and clothes wringers			40,740		7,600		3, 55 4, 58 839	3,735	2,489	1.183	1,480
Watch and clock materials arrent watchcases			29, 692		17,600		8,343	4,880	1,907		
Watcheases			19,619		1, Ulo 7, 831	675 10, 515	8, 627	7, 784	831	351	574 2, 333
Watches Wheelbarrows			32,044		14, 275		11,866	6,823	6,051		2,819
Whips			2,975		3,162		3,147	2, 734	2,136		1,243

12, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2	filed.	10,851 10,851 10,852 10,853 10	edlege & edge &	15. 15. 15. 15. 15. 15. 15. 15. 15. 15.	,	21,91,24,119,119,119,119,119,119,119,119,119,11	41, 487 10, 11, 93, 887 10, 119, 938 10, 119, 93, 93, 93, 93, 93, 93, 93, 93, 93, 9	(4) (4) (2) (3) (3) (3) (3) (3) (3) (3) (4) (4) (4) (5) (4) (6) (6) (6) (7) (7) (8) (7) (8) (8) (8) (8) (8) (8) (8) (8) (8) (8	(3) (3) (4) (4) (5) (6) (7) (7) (7) (8) (9) (9) (10)	(#) 22,2013 22,013 15,553 16,553 10,940 (a) (a) (b) (a) (b) (a) (a) (a) (a) (a) (a) (a) (a) (a) (a	2,2,2,3,2,3,2,3,3,3,3,3,3,3,3,3,3,3,3,3	(3) 25, 058 29, 058 4, 959 1, 769 177, 498
to from the same		, 004, 333	100, 002	1,000,001	70 (000 ty	- Colo						

1 Based on figures shown in lett-hand column for 1919.
1 The figures shown in lett-hand column for 1919.
1 The figures shown in the right-hand column for 1919 were used in calculating the precriages in this column.

1 Because of a change in classification, statistics not comparable.
1 Mothers of a change in classification, statistics not comparable.
2 Mot shown separately.
2 Mot shown separately.
3 Mot shown superately.
4 Artificial stone products "included in "Artificial flowers."
5 Mot called for on schedule.
5 Mot called for on schedule.
5 Mot called for on schedule.
6 Mot called for on schedule.
7 Mot called for on schedule.
8 Mot called for on schedule.
9 Mot called for on schedule.
8 Mot called for on schedule.
9 Mot called for on schedule.

 $\pi\,N_0\,{\rm data}$  . "No data ... Rossting and grinding of peanuts" included in "Coffee and spice, rossting and grinding."

"The following industries, formerly a part of "Foundry and machine-shop products,"

"The following industries, formerly a part of "Foundry and machine so we treated as separate industries." Machine tooks," "Steel barrels, drums, and

tanks," "Textile machinery and parts," and the tempering and welding of iron and steel briot to 1919. "Engines, steam, gas, and water," and "Pumps, steam and power," pinot to 1919. "Engines, steam, gas, and water," and "Pumps, steam and power," pinot to 1919. "Attomobile repairing" in 1969 and immaces" prior to 1904. "Locomeives," and "Stoves and immaces" prior to 1904. "Locomeives," gathers, each prior by including gloves made in textile mills," "Suspenders, gathers, and elastic woven goods" included prior to 1919.

"Millstones and elastic woven goods men's."

"Millstones and pulpstones," included prior to 1919.

"High changed to "Corn surp, corn oil, and starch."

"Millstones and pulpstones," included in "Grindstones."

"Millstones and pulpstones," included in "Grindstones."

"Straw hats" included in "Upholstery."

"Straw hats" included in "Upholstery."

"Straw hats" included in "Heits and caps, other than felt, straw, and wool."

"Straw hats" included in "Heits and caps, other than felt, straw, and wool."

"Straw hats" included in "Heits and caps, other than felt, straw, and wool."

"Straw hats" included in "The stray of the "Ensigh is meneral of with those for "Sansage, not made in slaughtering and meal-packing establishments." included with the "Whidow and door screens and weather strips," included under "Lumber, planing
"Whidow and door screens and weather strips," included under "Lumber, planing"Whidow and door screens and weather strips," included in "Photographic apparatus," and "Motion pictures" because "Wall board, other than "Phunys, not including power pumps" included in "Phunys, steam and other power."

power."

# "Seming machines, cases, and attachments," combined. Comparable # "Seming machines, to 1919.

# Includes "Artificial leather." and "Excelsior."

# Charcoal," included in census publications for 1923, not included here.

Table 35.—Average Number of Wage Earners in Geographic Divisions and States, by Census Years, and Per Cent of Increase,

• •				`	11011 211	O. 11.		0.2020		
			1899-	16.0	10.1 17.1 14.0 14.0 14.0 8	83.88 20.0 20.0 20.0 20.0 20.0 20.0 20.0 2	7.01.12 4.01.15 13.73 13.73	17.9 24.5 15.0	18,2 10,9 14,0 10,1	23.04 29.25 29.25 20.25 20.25 20.25
	1	*	1904- 1909	21.0	17.1 17.1 19.6 19.8 18.9		20.3 20.3 19.7 16.7	17.2 22.5 15.0	22 22 22 22 22 22 22 22 22 22 22 22 22	12448448 7 5 6 6 6 7 7 6 6 6 7 7 6 6 6 6 7 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1
	DECREASE (	riod	1909- 1914	6.4	ಣರ <u>ಿ</u> ಗೆ ಇಬ್ಬ ಇ ೧೦ ೦ ೩ 4 ೦		84 . 65.00; 1.7. 7.48.00 - 65.	4.4.0. 4.7.0.	24.0 5.0 6.4 4.0 4.0	9.4   12 0.8 0 0404080
	OR	Intercensal period	1914- 1919 3	29.3	15.7 21.9 21.9 30.9 19.3		7. 9 5. 2 17. 7 23. 1 29. 3	16.1 36.3	23.28.52 23.28.52 25.88 88.88	22.22 23.53
	INCREASE	Interc	1919- 1921 2	-22.8	2011 2011 2011 2011 2011		-14 -18.6 -22.3 -18.8 -19.1	-18.2 -24.7 -23.7	- 25.2 - 25.3 - 27.0 - 27.0	25.1 -25.1 -27.2 -25.0 -25.0
	CENT OF		1921-	26.4	22.5 22.5 22.5 28.8 28.8	20.3 20.3 33.1	10.1 11.7 19.5 19.5 24.8	15.0 17.4 26.8	41.14 26.53 29.53 20.53	255 25 25 25 25 25 25 25 25 25 25 25 25
	PER C		1919-	-2.5	ට     විස්   ස්දේශ වෙත   ට වෙත	12.15		11.5	7.7.0	15.7 15.7 15.7 15.7 15.2
		24 year period.	1885-	88.2	74.88.123.88.12 7.48.88.18.88.88	138.0 141.5 243.0	20.6 111.3 520.5 53.2 65.1	109.9 65.6	127. 7 110. 7 94. 6 223. 7 81. 0	62.4 174.0 141.0 70.0
то 1923		products	1899	4, 712, 763	851, 903 , 604, 844 , 073, 322 266, 051 458, 344	113, 388 44, 497 123, 206	69, 914 67, 646 28, 179 438, 234 88, 197 159, 733	726, 909 213, 975 663, 960	308, 109 139, 017 332, 871 155, 800 137, 525	64, 557 44, 420 107, 704 1, 358 2, 224 18, 669 27, 119
s: 1899		with e	1904	5, 468, 383	940, 752 1, 224, 528 1, 224, 528 522, 611		74, 958 65, 366 33, 106 488, 399 97, 318 181, 605	856, 947 286, 336 763, 282	364, 298 154, 174 379, 436 175, 229 151, 391	69, 636 49, 481 133, 167 1, 755 2, 492 20, 260 35, 570
Periods:	EARNERS	tablishm at \$500 or	1900	6, 615, 046	1, 101, 290 2, 207, 747 1, 513, 764 374, 337 663, 015	204, 520 75, 435 213, 166	79, 955 78, 658 33, 788 584, 559 113, 538 210, 792	1, 003, 981 326, 223 877, 543	446, 924 186, 984 465, 764 231, 499 182, 583	84, 767 61, 635 152, 998 2, 789 24, 336 44, 215
Census	OF WAGE 1	data for value	1914	7, 036, 247	1, 140, 233 2, 355, 940 1, 680, 281 381, 595 685, 252	211,940 81,113 235,515	82, 149 78, 993 32, 704 606, 698 113, 425 226, 264	1, 057, 857 373, 605 924, 478	510, 435 197, 503 506, 943 271, 090 194, 310	92, 834 63, 113 152, 182 3, 215 25, 144 41, 259
BY	NUMBER	Including	1919	9, 096, 372	1, 351, 389 2, 872, 653 2, 396, 618 817, 212 329, 226		88, 651 83, 074 33, 401 713, 836 139, 665 292, 672	1, 228, 130 508, 686 1, 135, 837	730, 733 277, 580 653, 114 471, 242 263, 949	115, 623 80, 551 195, 037 4, 472 6, 382 36, 521 61, 049
	AVERAGE	n estab- products a \$5,000	1919	9,000,059	1, 348, 190 2, 862, 484 2, 388, 970 494, 255 808, 864	282, 312 107, 759 432, 963	88, 006 82, 838 33, 178 712, 846 139, 309 292, 013	1, 223, 333 507, 334 1, 131, 817	728, 631 276, 060 651, 146 470, 326 262, 807	114, 614 79, 621 193, 254 4, 270 6, 102 85, 985 60, 409
		data for s with pro	1921	6, 946, 570	1, 071, 699 2, 246, 104 1, 710, 939 646, 207		75, 710 67, 416 25, 767 579, 071 112, 745 210, 990	1, 000, 414 381, 773 863, 917	494,288 206,534 513,876 304,471 191,770	85, 804 62, 274 156, 384 3, 107 4, 635 27, 655 44, 938
		Excluding lishments valued at	1923	8, 778, 156	1, 264, 496 2, 694, 027 2, 387, 049 468, 725 832, 016		83, 328 75, 314 30, 783 667, 172 134, 667 263, 232	1, 150, 901 448, 069 1, 095, 057	699, 132 291, 131 645, 627 503, 308 247, 851	103, 964 77, 847 196, 694 3, 552 5, 146 31, 267 51, 255
		DIVISION AND STATE		UNITED STATES	GEOGRAPHIC DIVISIONS: New England Riddle Afburde East North Central West North Central Fast South Afburde	Central	NEW ENGLAND: Maine. New Hampshire. Vermont. Massechusetts Rhode Island. Connecticut		EAST NORTH CENTRAL: Ohio. Indiana. Michigan. Wisconsin.	WEST NORTH CENTRAL: Minnesoth Liwn Missourt North Dakota North Dakota Nebraska Ransus Kansus

0,4448844 0,444884 116886487	31.8 31.8 18.0 4.4	38.6 129.1 27.1	0,72,111,88,88,88,88 112,000,78,88,88	88.1 30.0
1428 442 458 004000000000000000000000000000000000	9.4 21.9 16.0	35.9 36.4 140.9 43.1	68.05.05.05.05.05.05.05.05.05.05.05.05.05.	52.9 14.9
4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1.6.7	2.2 % 7.2 % 7.2 %	7.7. 8.5. 8.4. 8.4. 17.7. 10.9	-2.8 21.0
28.25.00 26.	28.1 36.1 23.2	19. 28.5 69.1 6.5 6.5	<b>程成型或证据第十</b> 公00000000	97.8 103.1 74.7
2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2	-13.7 -19.6 -25.5	121.8 123.6 16.7	######################################	-41.5 -31.0 -18.2
2621422283 2621422283	30.4 22.5 28.7	33.2 11.2 15.4 15.4	24.12.62.12.88.12.8 0 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	488
21 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	25.5.6.4. 24.4.4.		A 21 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	-15.7 7.7 1.6
13.0 17.0 17.0 17.0 19.0 19.0 19.0 19.0 19.0 19.0 19.0 19	50.8 135.1 96.4	43.9 132.9 985.5 167.9	46.25.25.25.25.25.25.25.25.25.25.25.25.25.	255. 5 236. 2 220. 6
20, 562 6, 155 6, 155 83, 080 73, 080 47, 025 83, 336 83, 336	51, 735 45, 963 52, 711 26, 739	31, 525 40, 878 2, 381 38, 604	9,1,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,	31, 523 14, 459 77, 224
18,475 9,174 6,239 80,285 83,788 83,339 82,441 42,091	59, 794 60, 572 62, 173 38, 690	33, 089 55, 859 5, 456 49, 066	8,957 1,99,061 1,90,061 1,83,47,83 1,93,87 1,9	45, 199 18, 523 100, 355
21, 238 107, 921 7, 707 105, 676 63, 893 121, 473 73, 046 104, 588	65, 400 73, 840 72, 148 50, 384	44, 982 76, 165 70, 143	11,8% 4,8% 4,0,11,0,000,000,000,000,000,000,000,000	69,120 28,750 115,296
22, 155 111, 585 118, 887 102, 820 71, 078 136, 844 11, 824 104, 461 55, 668	64, 586 74, 373 78, 717 46, 702	41, 979 77, 655 17, 443 74, 863	81.00 % % % % % % % % % % % % % % % % % %	67, 205 28, 829 139, 481
29, 035 140, 342 10, 482 1119, 353 83, 636 157, 659 79, 450 72, 450	69, 340 95, 167 107, 159 57, 560	49, 954 98, 285 29, 508 107, 522	17,160 18,17,160 18,17,160 17,126 17,126 17,126 11,13	132, 928 58, 559 243, 692
28, 810 139, 401 10, 440 117, 376 82, 467 155, 635 78, 829 121, 948 73, 857	63, 191 93, 866 106, 014 56, 691	49, 032 97, 743 29, 106 106, 431	61 64 64 64 64 64 64 64 64 64 64 64 64 64	132, 398 58, 186 242, 379
107, 754 107, 754 107, 754 88, 556 66, 536 135, 536 135, 251 76, 251 78, 251 78, 251	58, 840 75, 446 89, 748	83, 431 22, 241 88, 707	11. 10.1384 17.254 27.625 27.625 13.74477 23.3310 23.3310	77, 518 40, 167 198, 334
23, 116 128, 826 128, 826 111, 578 85, 661 173, 687 137, 476 65, 047	76, 724 106, 504 109, 620 54, 352	44, 545 94, 719 25, 480 102, 358	15, 943 16, 347 17, 510 31, 226 55, 459 4, 608 4, 666	111, 663 62, 655 246, 154
Solvate Attantic Delaytre Maryland District of Columbia Vieginia West Virginia North Carolina Georgia Florida	Bast South Central: Kentucky Tennessee Alabama Mississippi	West South Central. Arkniss. Louisian. Oklahoma. Texas.	Mouvain: Montana Idaho Idaho Vyoming Colorado Arizona Utah New Mexico	Pagrac: Washington Oregon California

1 For explanation of method of computing percentages in this column, see general remarks preceding these tables, par. 4, p. 125.

2 Based on figures shown in left-hand column for 1919.

3 The figures shown in the right-hand column for 1919 were used in calculating the percentages in this column.

Table 36.—Amount of Primary Horsepower Installed in Geographic Divisions and States, by Census Years, and Per Cent of Increase, by Census Periods: 1899 to 1923

[No data in regard to prime movers were collected for 1921]

			1899-19 <b>04</b>	33.6	87.25.24.24.26.26.26.26.26.26.26.26.26.26.26.26.26.	32.6 8.6 11.5 17.8 17.8 18.7	37.9 35.3	16.25 19.65 19.65 19.65 19.65
	EASE (-)	po.	1904-1909 1899-1904	38.5	25.00 25.00	25.25 12.35 6.72 1.65 3.16 6.32 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65	31.7 26.9	41.7 66.3 36.6 35.7
	OR DECR	Intercensal period	1909-1914	20.1	경멸성검색 1112427 1117427 6 8 2	0.00 17.0 0.00 0.00 0.00 0.00 0.00	18.0 29.5 21.5	8828 882 1
	F INCREASI	Inter	919-1923 2 1914-1919	31.6	1923888888888 247708888	12. 7. 1. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	24.6 44.6 25.5	25.25 4.45 4.45 8.65 8.65 8.65
	PEB CENT OF INCREASE OR DECREASE (-)		1919-1923 2	12.8	ರುವುದ್ವಹನ್ನಡ್ಗಳು ರಾಜಕಾಗಿ ಇಂದರಿಗಳ	7-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	11.7 10.4 15.1	25.5 20.0 23.5 23.4 6.7
פר]	P	24-year period,	1839-1823	229.6	132.8 208.2 208.2 279.8 186.3 270.8 185.6 222.3 539.0 694.0	120.9 75.6 41.5 144.7 156.4 184.2	198, 2 292, 6 198, 7	324.4 322.1 256.3 302.5 157.3
מוב המובכונית זמו ומכיו		ectric	1899	10, 097, 893	1, 792, 342 3, 139, 128 2, 401, 808 855, 608 851, 608 853, 426 87, 471 123, 421 123, 421 274, 559	259, 232 200, 975 126, 124 796, 061 153, 619 256, 331	1, 099, 931 322, 503 1, 716, 694	783, 665 325, 919 559, 347 368, 497 364, 350
20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		other than el	1904	13, 487, 707	2, 125, 815 4, 255, 264 3, 120, 369 753, 700 1, 221, 040 753, 928 555, 717 241, 825 460, 049	343, 627 218, 344 140, 616 938, 007 181, 017 304, 204	1, 516, 592 436, 274 2, 302, 398	1, 116, 932 980, 738 741, 555 440, 890 440, 234
	WER	nted power	1909	18, 675, 376	2,715,121 6,531,502 4,382,070 1,101,990 1,832,001 1,036,560 873,350 400,766 802,016	459, 599 293, 991 159, 445 1, 175, 071 226, 740 400, 275	1, 997, 662 612, 293 2, 921, 547	1, 583, 155 633, 377 1, 013, 071 598, 288 554, 179
	PRIMARY HORSEPOWER	Including data for rented power other than electric	7161	22, 437, 072	3, 124, 329 6, 689, 576 6, 421, 435 1, 238, 988 1, 157, 367 1, 157, 367 466, 278 1, 094, 814	487, 211 344, 093 172, 687 1, 396, 722 269, 854 453, 812	2, 356, 655 793, 063 3, 549, 858	1, 993, 080 709, 703 1, 305, 930 730, 383 682, 339
	PRIMA	Includi	1919	29, 504, 792	3, 796, 846 8, 537, 660 7, 735, 137 1, 594, 113 2, 795, 094 1, 415, 577 1, 185, 989 686, 579 1, 757, 798	547, 028 349, 138 185, 095 1, 729, 878 321, 016 664, 691	2, 936, 530 1, 146, 744 4, 454, 386	2, 897, 497 1, 095, 912 1, 660, 918 1, 202, 128 878, 682
		data for ver other ectric	1919	29, 327, 669	3, 775, 510 7, 8497, 533 7, 8497, 533 1, 577, 007 2, 783, 963 1, 410, 445 1, 740, 152	544, 840 348, 672 183, 871 1, 715, 558 319, 346 663, 223	2, 921, 066 1, 138, 471 4, 437, 996	2,881,340 1,092,876 1,650,683 1,192,349 871,117
		Excluding data for rented power other than electric	1923	33, 094, 228	4, 151, 136 9, 627, 808 9, 627, 808 1, 714, 630 3, 143, 936 1, 461, 604 1, 461, 604 1, 886, 347 1, 886, 942	570, 532 352, 656 177, 212 1, 931, 787 3301, 928 727, 921	3, 263, 325 1, 256, 890 5, 107, 593	3, 307, 726 1, 372, 007 1, 980, 508 1, 471, 550 929, 889
		DIVISION AND STATE		UNITED STATES	GEOGRAFHIC DIVISIONS: New England Middle Atlantic. East North Central West North Central South Atlantic East South Central West South Central West South Central West South Central West South Central Pescific	NEW ENGLAND: Maine. New Hampshire. Vermont. Massedurestis. Rhode Island. Connecticut.	Middle Atlantic: New York New Jersey	BAST NORTH CENTRAL: Onlo Indigan Michigan Wiconsin

25.00 25.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	22.22.22.23.23.23.23.23.23.23.23.23.23.2	21. 24.9 69.3 67.8	37.6 32.5 155.9 41.7	200,7,0 200,7 15,7 18,7 150,8 53,0 81,6	92.2 93.5 95.7 95.7
4.15.55 4.15.55 4.15.55 4.05.41 1.15.30	6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	31.8 37.8 22.1 86.9	58.1 37.6 140.3 71.6	93.4 111.7 111.7 23.8 160.0 121.8 174.0	77.0
25.25.25.25.25.25.25.25.25.25.25.25.25.2	22 22 22 22 22 22 22 22 22 22 22 22 22	2.8.1 2.4.6 6.0.0	4458 4458	1,11,00 1,15,00 1,10 1,10	22.4 49.2
25.25.25.25.05.05.05.05.05.05.05.05.05.05.05.05.05	ಜೈಸ್ಕೆಜ್ಗೆಸ್ಗೆ ಭೆನ್ನ ಬರು 40 ಬಲು 44	3.9 18.1 41.0 7.7	20. 9.9.4. 43.9 0.0	7.04.02.02.02.02.02.02.02.02.02.02.02.02.02.	76.5 42.1 58.0
12.00 13.00 13.00 10.00	ಜಿಸ್ನೆಲ್ನೆ ಬ್ಲಪ್ಗೆ ಜ್ಞೆ ಸ್ಟ್ರೆಗೆ . ವಹಚಹಾದ ಚಾರವ	11,29 11,32	-22.0 4.3 10.4 24.8	8-48-1884 10-06-11-0	25.00 20.00 30.00
157.0 168.3 194.3 137.9 54.4 54.4 216.7	180.5 278.2 278.2 212.8 215.8 215.8 285.0 282.2 2 282.2 2 282.2 2 282.2 2 282.2 262.	76.2 201.3 270.8 171.0	110.0 113.1 1,235.5 376.2	339.6 1, 186.9 568.2 310.4 370.9 1, 411.2 1, 702.9	584.3 440.2 674.2
180, 124 106, 664 189, 117 7, 351 11, 775 41, 825 68, 242	40, 134 132, 052 10, 255 10, 255 136, 696 11, 894 112, 697 113, 697 136, 499 36, 356	144, 161 130, 318 173, 208 65, 738	79, 560 190, 182 11, 572 116, 157	43, 679, 679, 679, 679, 679, 679, 679, 679	87, 601 60, 005 126, 953
220, 934 118, 065 247, 861 9, 873 11, 154 46, 372 99, 441	49, 499 165, 449 12, 593 176, 998 138, 578 220, 419 43, 413	174, 625 175, 780 293, 185 110, 338	109, 509 251, 963 29, 608 164, 637	21, 987 21, 987 21, 987 21, 987 21, 988 21, 988 21, 988 21, 988	168, 342 81, 348 210, 359
287, 670 155, 384 340, 467 13, 196 17, 666 64, 456 213, 141	52, 773 218, 244 16, 553 283, 928 277, 496 378, 556 276, 378 286, 241 89, 816	230, 224 242, 277 357, 837 206, 222	173, 088 346, 652 71, 139 282, 471	90, 402 42, 804 154, 615 15, 465 7, 765 7, 765	297, 897 175, 019 329, 100
358, 737 199, 049 391, 385 14, 062 16, 324 89, 285 179, 146	64, 403 263, 753 24, 775 337, 567 278, 504 508, 508 340, 224 357, 403 100, 071	238, 314 286, 857 445, 762 186, 434	177, 208 355, 193 97, 308 335, 791	91, 671 10, 828 10, 904 12, 828 12, 468 12, 468 12, 468 13, 536 18, 536	389, 567 214, 222 491, 025
473,957 242,946 477,303 17,731 22,131 125,814 234,110	85, 150 406, 768 33, 079 419, 946 549, 878 549, 878 395, 558 139, 456	247, 573 338, 814 628, 376 200, 814	214, 194 388, 605 139, 983 443, 207	153, 491 73, 886 17, 869 206, 306 17, 260 17, 260 17, 260 183, 942 19, 874	687, 436 304, 346 768, 016
470,830 239,592 474,672 17,024 20,107 122,957 231,825	85, 065 405, 545 32, 911 419, 329 327, 389 548, 060 394, 615 432, 538 138, 501	245, 138 337, 707 627, 300 200, 300	211, 614 386, 399 138, 509 439, 221	152, 304 73, 355 17, 027 203, 881 16, 901 103, 536 103, 536 10, 756	680, 764 302, 617 756, 771
460, 128 282, 333 553, 397 16, 730 129, 428 255, 555	497, 945 497, 945 31, 946 707, 999 707, 882 407, 735 449, 888 138, 269	251, 554 391, 465 640, 892 177, 693	165, 154 402, 938 152, 956 548, 299	190, 516 72, 146 23, 950 176, 076 16, 863 128, 531 141, 671 27, 983	593, 330 322, 297 971, 315
West Norge Central: Minnesota Iowa Nissout North Dakota South Dakota North Dakota Kansas Kansas	SOUTH ATLANTIC:  Delaware.  Maryland.  District of Columbia.  Virginia.  West Virginia.  North Carolina.  South Carolina.  Georga.  Florida.	EAST SOUTH CENTRAL: Kentucky Tentressee Alshems Mississippi	West South Central: Arkansa. Louisana Oklahoma. Texas.	Mountain: Moutana Idaho. Wyoming Colorado. New Mexico. Arizona Ush	PACIFIC: Washington Oregon California

1 For explanation of method of computing percentages in this column, see general remarks preceding these tables, par. 4, p. 125.

1 Based on figures shown in 16th-band column for 1919.

7 The figures shown in the right-hand column for 1919 were used in calculating the percentages in this column.

Table 37.—Quantity of Materials Consumed and Products Manufactured in Selected Industries, by Census Years, and Per Cent of Increase, by Census Periods: 1899 to 1923

				ACTUAL QUANTITY REPORTED	UANTITY	REPORT	QZ.			PER CE	ST OF IN	PER CENT OF INCREASE OR DECREASE	OR DEC	REASE	ĵ.	
MATERIAL AND PRODUCT									24-year			Intercensal	ansal pe	period		1
		1923	1921	1919	1914	1909	1904	1899	1889- 1923	1919- 1923	1921- 1923	1921	191 <del>4</del> 1919	1909- 1914	1904	1899-
FOOD AND KINDRED PRODUCTS		,														
Butter, cheese, and condensed and evaporated milk:				-										<del></del> -		
	mill. lbs	<u>6</u> 6	£	10, 244. 9 2, 551. 7	8, 431. 4 2, 384. 0	9,888.7	12, 147. 3	11, 678. 1					21.5	-14.7	-18.6	4.0
	mill. lbs	NC.	1 118 2	8	092	69	7 103	2	5				-		199. 1	188.8
milk	mill lbs.	25.0 221.1	1,758.5	473.6 2,150.2	370.3 873.4	311.1	317.1 308.5	282.0	99.9	4.0 19.0 19.0 19.0 19.0 19.0		10.5	5.25 0.00 0.00 0.00 0.00 0.00	ល ល្ខំដុំ	9.77	26.5 12.5 4 -
							,		· .		ŝ	1	701			
***************************************	ili.lbs	5,151.4	4,358.0	5,118.7	3,786.3 206.3	4,409.7	4,066.2	3, 222.	59.	17.	25.53	14.9	000	-14.1	4.6	28.2
Elogy dressed weightmill. Productsmill.	Tos-	9, 439. 1	568.0 6,873.3	7, 358. 9	629 5,476.	496.6 5, 201.9	2 464.9 5, 048.8	3 389.1 5, 203.3	8.22 4.4.	6, 8,	37.3	6.53 6.73	20.4	184.r.	9 00 C	19.5 19.5 19.5 19.5
sh and curedlard compounds	lbs.	2,419.7	0,976.0	12,634.0	9,600.3	29, 719. I 1, 243. 6	28, 772. 1 1, 169. 1	17, 981.6	70.4	7.7	88	-13.1		ا ا	10.8	တာ တ
calf	lbs.	626.5	524	327.	434.5	504.6	ĩ	336.		ا ا	19.5	-16.5	3 3 4	-13.9	10.6	14.6 35.8
Flour-mill and grain-mill products: Material—			:									-				
	mill. bush	743.2	713.6	830.0	818.9	806.2	754.9	729.1	1.9	-10.5	4.1	-14.0	1.4	1.6	8.9	3.5
al and corn flour	. bbls	114.4	110.8	132.5	116.4	105.8	104.0	99.8	14.6	-13.7	es -	-16.4	13.8		 	
nddings, reed, and offal	. tons-			6	9.4	9.2	7.9	7.22	24.7	4.3	6	, 0 00	;;;	200	16.5	-15.1 9.7
		<del></del>	4.1			***************************************										
	<u> </u>	-	7,872.8	5, 648. 6	5, 639, 1	3,965.3	2, 175. 4	794. 6	628.2	2.4	-26.5	39.4	c,	42.2	82.3	173.8
seet sugarthous, short tons.	t tons	754.6	1,029.9	721.9	743.5	501, 7	253.9	81.7	823.5	4,5	7.92	42.7	-2.9	48 2	97.6	210.8
Sugar refining, cane: Product				·										-		
Refined sugarthous, short tons.		4,429.1	3, 770, 2	3, 521. 5	3, 333. 1	€	€	<b>②</b>		25.8	17.5	7.1	 			.

	, i	<b>⇔</b>	27. 9 27. 9 27. 9	563.6 4.0 620.8 8.0 620.8 8.0 71, 04	33. 485. 485. 677. 626.			382.1.382.1.382.1.382.1.382.1.385.4	28. 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	98.84 105.88 105.88 51.0 1.5 1.5	12.3 12.4 13.2 13.0 14.1 14.1 12.3		48.88 17.09 144.4.4 14.4.4.4 17.8 17.8 17.9	13.8 11.5 11.5 530 0 17.7 77.7	83.9 302.22 302.23 302.23 36.7
Cotton yarns. Products— Woven goods (over 12 inches in width), mill. 36, vds. Threst, manufactured for sale. Threst.	8, 264. 2 620. 7 31. 6	(a) 5, 7, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8,	5, 337. 4 6, 317. 4 618. 0	2, 523, 5 139, 5 6, 813, 5 26, 5 26, 5	5, 257. 6 477. 6 23. 7	1,876.4 105.4 5,056.8 364.6 17.2	1,817.6 94.7. 4,485.6 15.9	25.88.82 5.87.5	30.8	8,88,89	8.1 11.7	8,4% 1,4% 1, 60 8:14	8.1 10.1 17.9 11.8	48 88. 800 000	11.3 12.7 19.7 19.2
Materials   Materials   Materials   Materials   Materials   Cotton yarns   Materials   M	SSS 22 211222	98 ii 898 333 7 87 80 1 80 1 80 1 80 1 80 1 80 1 80 1	21.2 21.7.4 12.6 84.6 6.9.9 3.9.9 3.0 6.0 9.0 9.0	400 400 400 400 400 400 400 400 400 400	75. 21.7.5 10.7.7.0 10.7.5 10.	201 201 201 201 201 201 201 201 201 201	23. 25. 25. 25. 25. 25. 25. 25. 25. 25. 25	225. 8 -20. 1 970. 0 10. 51 472. 7	15.0 16.3 16.7	12 8,123,55 4 6,120	32.0 35.0 35.0	2. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	52 0 -5.3 37.5 37.5 19.7 1152.0	24.83. 24. 88.80.88. 04.82. 1. 407.83	4812 74 83 42 88 7 7 8 8 9 0 1 1 8 9 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Miteralis— Materials— Raw silk. Raw silk. Raw solder than silk. Products. Products. Products. Products. Products. Products. Proses plushes uphdistery, and tapestries. Others silk goods. See footnotes at end of table. 0. 191.	SSS 88.3	EEE 873.6	25.9 6.1 19.6 310.1 22.5 10.9	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	17.5 15.8 185.7 133.1 5.4	11.6 8.26 9.45 7.0 8.44 8.64	9.2.3.7.1.1.10.8.2.6.2.3.3.4.2.6.3.4.2.6.3.3.3.3.3.4.2.6.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3	307.5	15.1	5. 64 2. 5.4	11.8	115.6 -15.64 -15.75 -13.1 51.4	28. 14. 14. 14. 14. 14. 14. 14. 14. 14. 14	50.65.00 62.00 62.00 62.00 63.	18.4 39.1 36.6 12.6 6.5

Table 37.—Quantity of Materials Consumed and Products Manufactured in Selected Industries, by Census Years, and

Per Cent or	INCREASE,	- 11	вт Сп	CENSUS F	Periods:	3: 1899	101	1923—Continued	ontin	par	ig, pr	ČER	1 50	CENSUS LEAKS, AND	TND
		7	TO TATE	ACTIVITY OUT NAME OF STREET	and Can	,			PER CE	T OF IN	PER CENT OF INCREASE OR DECREASE	OR DEC	REASE	$\odot$	
MATERIAL AND PRODUCT			2		ar on ra-	,		24-year			Interce	Intercensal period	rlod		
	1923	1921	1919	1914	1909	1964	1899	1899- 1833- 1923	1919- 1923	1921- 1923	1921	1914-	1909-	1904	1994
TEXTILES AND TREER PRODUCTS—Continued Woolen and worsted goods:															
Materials— Woolen in condition purchasedmill.lbs Typesmill.lbs	වඩ	533	26.3	434.7	20.8	418.7	330.2 5.6					41.00 0.00	8.68 9.94	13.4	85.25 80 E
	£	€	43.0 0	3.6	29 T	31.0	28.				Ì		9.3	90.0	K E
All-wool wovan goods 10.  Thion or cotton-nixed woven goods 11. mill. sq. yds Cotton-warp, woven goods 12	399.1 47.4 181.5	88.44.48. 6.49.99.0	326.7 47.8 161.4	32.0 196.2 146.2	322.9 37.5 210.3 145.4	280.6 63.2 182.1	216.4 57.3 152.9 96.9	84.4 17.3 18.7	[ [ [ [ [ [ [ [ [ [ [ [ [ ] ] ] ] ] ] ]	888.4 840.4	11.9	1.1	8.5.0 8.2.7.1	25.55 87.55 87.55	20.01.02.04 4 6 1 0 1 0
other than rag:	<u> </u>					\$	3		ż		i 3	<del>มี</del> เรื่ ไ	4	3	9
Wool in condition purchasedmill. lbsmill. lbsmill. lbs	£	චච	36.3 87.2	52.6 122.6	128.3	51.3	51.9					-31.0 -28.9	17.9	25.0	18.7
i	83.2	52.9	62.2	66.3	81.2	82.7	76.4	89 G	59. 4	57.3	i.	-21.3	-18.3	1.8	8
Cordage and twine, jute goods and linen goods: Materials—									,				,		
Hard fibers mill lbs. Solution from mill lbs.	<b>EE</b>	<del>වෙ</del>	206.0	437.3 338.3	352. 7 307. 0	£	275.9 248.8					-39.1	10.0		
Thousand hinder twine, exclusive of cotton for tope	432.9	358.3 80.4	443.2	487.4	411.4	93	305. 8	21.6	2,3	20.8	19.2	1 8 7	18		
	1.969.6	1. 756. 0	2, 100, 0	2 118 6	2,989.3	611.9	1 889 4	4	; °	6 6	9		8	1 7	0 06
Olicloth and floor coverings: Piece goods, rugs, etcmill. sq. yds	205.2	135.8	109.9	119.	109	99	Θ		51.1	86. 7	3.6		9.4	64.2	
IRON AND STEEL AND THEIR PRODUCTS							;								
Blast furnaces: Materials—														-	
Fron ore	EE	£	55.9 15.6	11.5	48. 13.6 4.0	30.0	25.4					29.1	-10.5 -15.4	61.3 63.9	18.1
			34.6	26.9	31, 4	19.7	16.5			T		9	-14.3	£9.4	19,4
Pig iron, including ferro-alloysmill, long tons	40.2	16,6	13 30. 5	23,3	25.7	16.6	14.4	179.2	31.8	142, 2	-45.6	30.9	-9.3	8 79	15.3

	44.4		- A - A - A - A - A - A - A - A - A - A	4101111	7.17.17.17.17			100
27.3 25.6 4 4.8				-20.9	11.02.1.21 4.4.82	15.5 29.4 14.8	11.1	16.4
25.56 32.79 7.79				85. 12.	57.6 5.1.6	11.6	17.7	.8
9, 9, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,	'			-13.3	-18.3 -21.4 53.6	28.2	2,	8
36.98 36.99	32, 13, 314,			-10.1	28, 9 19, 9 4, 6, 6	8.8 -39.3 18.3 103.7		17.3
43	1 95	25.17.29 25.17.29 25.17.39 25.18.80 25.	6.7	-19.0 -32.4		-8.1 -52.9 -24.6	-13.4	-28.5
130.6	88 25	1,8,8,9,8,6	28.9 -7.5	33.3		31.6 6.74 6.74	22.4	
2.5	2 c. 2	41.88448	18. 5 55. 1	-11.3		11. 21.	6.0	
214 6				17.9		21. 9 -55. 9 129. 6	61.1	
4.4%	£ ££	3333333	£	86.00 9.00 9.00	15.8 9.9 24.5 5	3.5 (3) 2.4 (4) 2.4	218.0	2, 895. 7]
22. 4. 9. 22. 22. 22. 22. 22. 23. 23. 23. 23. 23		3333333	<b>98</b>	6.8	17.6 12.5 27.7 27.7	17.9 4.4 6.9	242, 1	3, 370, 1
19.1 6.5 7.5	ව වඩ	0000000	<u>ee</u>	33. 9 10. 6	18. 26.1 26.1 10.7 1	3.9	285.0	3, 368. 7
17.4 5.1 6.5 55.5		££££££	 Ee	7,9	17. 5 16.1 37. 8 40. 1	ක්දැන් කිකු පැති සඳ	292.7	3, 082, 41 3
4.7.8. 8.9.9.9.9.9.9.9.9.9.9.9.9.9.9.9.9.9.	19.4 589.3 215.0	1.82.22.03.03.03.03.03.03.03.03.03.03.03.03.03.	40.6 53.5	77.1	ដូដូនូដូ ឧច+ន	19.7 1.7.7 16.4	331.2	615. 7
£553	8.6 313.9 74.4	.ಗಳುಗಳಟ್ಟಳ <u>ಅರ್ಬಂಜನಗ</u>	37. 9 89. 7	었 <sup>4</sup> 1 51 80	 6666	18.1 .8 .67.0 12.6	286.8	, 582, 4 3,
(3(3(3)) 47. 5	13. 7 607. 7 140. 8	. % % % % % % % % % % % % % % % % % % %	48.1 83.0	30.9 6.3	£666	18. 1. 5. 18. 5. 18. 5. 18. 5.	351.1	© - '8
Steel works and rolling mills:  Makerials.  Pig tron, including ferro-alloysmill. long tons. Serap, from outside sourcesmill. long tons  Ingots, blooms, billets, etcmill. long tons  Productsmill. long tons  Rolled, forged, and other classified from and steel productsmill. long tons	traction not incl	Boring machines.  Drilling machines (except portable)thousands. Grinding machinesthousandsthousands. Lathesthousands Milling machinesthousands Pressesthousands Thousands Thousands Thousands Thousands Thousands Thousands	Fiber-to-fisher machinery—thousands. Fabric machinery—thousands. Lumber and Its Remandratures	Softwoods. mill. M. ft. b. m. Hardwoods. mill. M. ft. b. m. Leasther and Iry Finished Products	Leather, tanned, curried, and finished: Materials— Cattle birdes. Cattle birdes. Call and kip strins. Gost and kip strins. Shep and leath strins. Shep and leath strins.	Froducts— Sola learner Sola learner Upper leather (other than patent)— Diring, total Cattle sides— Cattle sides— mill, sides—	Boots and shoes, leather: G. Books, shoes, and slippersmill. pairs	Gloves, mittens, and gauntletsthous, doz. pairs See footnotes at end of table, p. 191.

MATERIALS CONSUMED AND PRODUCTS MANUFACTURED IN SELECTED INDUSTRIES, BY CENSUS YEARS, AND

							==		PER CENT	ঠ	INCREASE	OR DEC	OR DECREASE	ĵ	
MATERIAL AND PRODUCT		¥	TUAL QU	ANTITY 1	actual quantity reported	Δ.	-	24-year			Interce	Intercensal period	jod		
	1923	1261	1919	1914	1909	1904	1899	1899- 1923	1919- 1923	1921- 1923	1919-	1914- 1010	1909- 1	1909	1804
PAPER AND PRINTING Pares and wood milt.									:		]	l v			
Materials— Pulywood Wood purchased thous. short tous.	и5,872.9 (t)	4, 557. 2	5, 477. 8 1, 596. 0	4, 470.8 1, 522.0	4,001.6	3, 050. 7	1, 986.3 644.0	195.7	7.2	28.9	-16.8	22. 5. 4. 9	11.7	31.2	9 6 96 98
Rags, including cotton and flax waste and sweepings.  Old or waste ramer thous short tons.	<b>6</b> 6	චව	277.8 1,854.4	361.7	357. 5 983. 9	294. 6 588. 5	234. 5 356. 2					22 28 28	512	27. 27. 24.	85.55 2.26 2.26
eets	1,521.1 1,207.9	<del>, </del>	Ħ,	1, 313. 904. 247.	1, 168, 1 670, 1 198, 2	912.8 434.5 146.8	569. 2 282. 1 112. 7	328. 2 234. 5		2 2 2 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1230.0		12.4 34.9 25.0	845	60.45 20.30 4.00 4.00
thous. thous. thous. thous.	1, 027. 0 2, 792. 8 1, 103. 6 3, 789. 2	708.8 1, 739.8 727.1 2, 876.3	831.4 1,867.1 799.8 3,518.0	2, 893. 2	763 2, 530, 11 1, 495, 53	644.3 559.7 408.5 1,921.8	535.2 394.1 274.2 1, 179.5	91.9 608.7 302.5 221.3	24.08. 20.07.	60.5 51.8 31.7	18.10.00	i 4 없다	46.00 15.00 10.00 10.00	47.53.53 48.89.90	444 446 400 400 400 400
CHEMICALS AND ALLIED PRODUCTS	7. *			-			-			1.5	<del></del>				
Coke not including gas-house coke: Material— Coal	15 84. 4	15 37.3	16 65. 6	1651.6	59.4	37.4	30.2	179.5	28.7	126.3	-43, 1	27. 1	-13.1	58.8	88
	57.0	, 15 15 15	44.2	34.6	39.3	25.1	19.6	189.3	29.0	125.3	-42.8	27.7	-12.0	56.6	28, 1
Fertilizers: Material— Phosphafe rockthous, short tons	€	€	2, 247. 3	2, 081. 0	1, 549. 5	888.6	787.9			1		8.0	34.3	74. 4	12.8
Product————————————————————————————————————	7, 549.3	5, 994. 2	8, 237. 0	8, 432. 2	5, 618. 2	3, 591. 8	2,887.0	161.5	-8.3	25.9	-27.2	-2.3	50.1	56.4	24, 4
Ges, illuminating and heating: Materials— Coalthous, short tons	7, 338. 3	6,972.0	7,657.8	6, 116. 7	4,940.6	4, 431.8	2, 487. 3	195.0	4 1	10 cc	 0.4 0.7	,53,52 51,50	888	11.5	78.2 110.9
Oil, benzol, and benzine	356	306.		203		112	67.	431	15	16.	l i	51.5	35.0	34 0	67.7

			٠			AP	PEN	DD	<b>X</b> . 1	В	-GEN	ER	AL	TAB	LE	s			
	86. 27. 28.	92.9	30.0	16.9 12.3		8.8	8.0	7.5	 483		77.83 77.48 8.8	9		41.6 52.0 7.7	103.7	-17.5	12:1		
1,	15.9	:07:	8; 2; -1 4	154.7		80.3	86.2	23.6	8.69		94.9 94.5 69.6	i i	ż	क्षं ध्रुं 4 <u>क्रुक्</u>		-4 5 0.7-	74.7	7.7	
	4	12 6	16.0	14.1	. 7.	58.4	170.4	15.5	-25		### ## ## ## ## ## ## ## ## ## ## ## ##	C	4	21.9	86	-7.1	16.1	13,6	
	10.7	15.8	8.68 11 14	57.9 14.0		91.0	205.4	5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	57.75		36.12 4.12 7.12 7.13	u a	j	1	oo oo	-30.4	41.3	8	
	77	88.3	86 61 86 87 87 87 87 87 87 87 87 87 87 87 87 87	25.0 8.0		4. 12.	9 9 9 9		\$1A		236.3	ç		18.3	-36.2	88	-27.6	4.6	
		-10.1	55. 25.22	74 S 20 S 20 S		35. 7	100.0	9 11 6 9 12 6	ਰਜ <b>ਾ</b> ਵਿੱਚ		50.05 14.00 1	- F		11.8	4	202	43.2	14.2	
		44.8	19.4	## 88 84 88	11	64.7	100.8		14		188	7	1	1818 1818 1718	-7.6	55.2 45.0	3.6	8.8	. 3
		129.2	309.8	173.0		1,057.1	180.4	277.8	576		323. 5 337. 2 290. 2			88.8 19.5		-21.0 -18.2	234.8	1	
:	16.2 16.2	254. 7 119. 0	191.4	14.8 8.5.3		52, O	بر 6		ન <del>વર્</del> છેલ્લું		1, 548, 1 390, 7 26, 5	o cic		8,8% 5 6.4%	57.3	37.7	2, 130. 0	<u> </u>	
	2 2 2 3 3 3 3 3 3	240.1 229.6	134 U	17.3		67.0	rų o	77.		1.	1,869.4 519.0 47.0	Ę	700	1,344.0	116.7	3,508.3	2, 401. 5	1 19 1,386,6	
	350.2	248.0 246.6	34.3	18.7	· · · · ·	120.8	10.8	33.5		• .	2,764.5 646.1 79.7	20		1,661.7	174.6	3,283.91	4, 195. 6	1, 493. 1]1	
	25.52 8.52	279.3	138.6 40.8	17.8		191.3	€8.	7.5% 7.5% 7.5%	10.4		4, 071.6 935.3 77.5	5		2 191.2 191.6 285.0	330	27. 6 2, 936. 91	4,872.7	1,696.5	•
;	192.6 27.0	263.0	160.9 59.6	22.	-	365.3	7,55	44:	16.4		5, 552 6 1, 507. 4 129. 2	20,7	3	2,191.8	99	2, 451.02 L	88	1,836.0	:
	<u></u>	334.9	48.55 11.55	ក ដូដ		16 443.4	102.0	- 86 F	19.0		4, 369. 9 959. 6 90. 7	Š	7	170.3	S.	24.8 3,019.6	4,981.2	1, 752, 1	
	<u> </u>	301.1	153.4	39.9		601.7	146.6				6, 555. 5 1, 708. 0 103. 5	0 444		129.8	332.5	3, 555. 1	7, 130. 7	3,000,3	
	thous, short tons	mill. lbs.	n mili.	nersmill.		mill. bbls	mill bbls.		1011		thous, short fons. thous, short fons. mill, lbs.			mill, gals thous, short tons.	mil	mill, gals.	thous, short tons.	mill. lbs.	nd of table, p. 191.
Paint and varnish: Materials—	Fig lead Linsed oil	White lead pigment	Zinc and other pa Paints in oil	Oleoresinous varn Other varnishes, j	Petroleum refining: Material—	Crude petroleum.	Naphthas Gasoline	Other ugar products of distantion filuminating oils	Lubricating oils	Chemicals and acids:	Sulphuric acid Soda ash Glycerin.	Explosives:	Explosives, total.	Oil and cake, cottonseed: Orude oil Cate and meal	Linters	Turpentine and rosin: V Turpentine Rosin	Salt	Soap: Hard soaps	See footnotes at end of table, p.

TABLE 37.—QUANTITY OF MATERIALS CONSUMED AND PRODUCTS MANUFACTURED

Per Cent of	T OF INCREASE,		BY CE	NBUS	PERIO	BY CENSUS PERIODS: 1899 TO	2 C	DELECTED INDUSTRIES, BY 1923—Continued	Ontin	ued	es, br	CENSUS		YEARS, AND	AND	
		¥	STUAL OF	TANTIFY	ACTUAL OUANTITY REPORTED				PER CE	NT OF I	NCREAS	E OR DE	PER CENT OF INCREASE OR DECREASE	Ĵ		
MATERIAL AND PRODUCT						}		24-year	:		Intercensal	ensal po	period	,		
	1923	1921	1919	1914	1909	1904	1899	189- 1839- 1923	1919- 1923	1921– 1923	1919- 1921	1914-	1909- 1914	1904-	1904	
STONE, CLAY, AND GLASS PRODUCTS																~~~
brick and tile, terra-cotta, and fire-clay products: Common brick Fire brick Mill. brick Mill. brick	7, 282. 2	4, 448. 0	4, 751. 9 963. 4	7, 145.8	9, 787. 7	8, 683. 9 678. 4	7,654.5	449	53.2	63. 7 82. 6	2. th	-33.5	-27.0 -2.6	25 6 7	13.4	. ,
Glass: Window glass Plate glass, polished mill. sq. ft.		260.0	368.	401.		243	217.	135.0	35 50 50 50 50 50 50 50 50 50 50 50 50 50	96.2	-29.5	8,0	17.0	41	11.7	
and blown glassmill. doz.	EE	<u></u> EE	28 28 28 28 28 28 28 28	19.3	52.4	31.8	7.7.78 9.00.44	TOG.		3	1	1 2 8 2 2 4	4.00 X	ა. გ. გ. გ გ. გ. გ.	52.5 8.6 8	-1-
	138.8	99.4	81.3	88		31	15.	773.0	70.7	39.6	83	8	33.5	110.4	99.4	,
icklime and hydrated lime, totalthous. tons	203,766.0 20,391.4	2,391.4	3, 071. 4	3, 380. 9	3, 473.0	2, 707.8	ε		22.6	57.5	-22.1	-9.2	-2.7	88		
METALS AND METAL PRODUCTS, OTHER THAN IRON AND STEEL	:							*		•					;	
Brass, bronze, and other nonferrous alloys, and manufactures of these alloys and of copper:														<del></del>		
Semifinished products	1, 937. 6	783.0	1, 434, 3	449. 5	ε	ε	3		35.1	147. 5	-45.4	219.1		1		
Copper, primary 1. Lead, primary 2. Zinc, trifinary 2. Zinc, trifinary 2. Zinc, trifinary 2.	989 618.3	£45	885.1 482.1	53	84.	24.88	888		1286	108.2			24	83.4 4.6	<b>48</b>	
Gold #	2,503.0 73.34	2, 42, 58, 59, 59, 59, 59, 59, 59, 59, 59, 59, 59	cd.	4, 573. 0	4,822.0	3, 892. 0	3,437.0	4 52 5 4 52 5 4 52 9	-14 to	4,60 % 200 %	14 H	5 65 65 7 68 65 1 1 1 1 1 1 1	\$ 1 ° 8	-80     186	4;5; 6 5;	
TOBACCO MANUFACTURES										i 5	5	1	4	3	5	
Tobacco, chewing and smoking, and snuff: 23 Tobacco and snuff.	419.8	387.0	424 1	9440 0	421.4	611	8	5			i	6		. (		
Tobacco, cigars: Cigars, weighing more than 3 lbs. per 1,000millions	6,950	6, 726		7.17	6.66	6.6	4 9	1. 14	1 1	- 60 5 60	0 1	6 T	9 E	0 7	27. 1	
n 3 lbs. per	. 3							1	•	š	4			F	p 100	
	27, 20	24,500	8,18	200	6 × 13	3,427	3, 74.21	1,682.7	25.6	78	6	215.1	147. 2	00	oci I	

					,I	<b>V</b> PPEN	IDI	ζВ	G	ENE	$\mathbf{R}A\mathbf{L}$	TA	BLE	s
	356.0	1,150.0	5.3	78.5		25.1 -17.5								13
	458.3	208.7	-11.2	-25.4		28. 4.4.		-				39. 5		
-	350.1	234, 4	-26.0	96.2		141						10.5	6 6 7	
-	230.4	-5.0 57.4	45.9	92.25 8.55 8.05		-67.71,436.7 -84.3 314.9	· ·	309. 5	320.5	15.8		4	293.0	
	-15.3	1.54.3	-82, 4	436.6 -63.8 -48.5	1			-16.9	-12.5 4.52	13.5	0.7	-35.3	73.2	
	143.4	55.2 124.6	120.0	35.1 219.4 104.8		-76.7		66.4	78.4	39.2	71.3	57.1	67.4	
M <sub>errori</sub>	106.1	- 23 13,13	-61.2	625.2 15.5		-92.5		es es	122	1.9	4 4 8 8	1.7	135.23	
	5.0 77,048.0	20, 950. 0 ~56. 3	85.2	34.6 25.6		7.2							558.9 3,454.3	
	26 5. 0	1, 112. 9	1, 594.3	1,369 143.1 (1)		262. 5 424. 6		ε	£5	£	<u>වෙ</u>	Ξ	151. 4	
•	22.8	225.33	1,711.3	2,444 117.5 (i)	-	328.4 350.1		£	<u> </u>	£	 EE	261.2	£5	
-	127.3	18.6 168.8	1, 519. 2	1, 819 87.7 (1)		255.0	<del></del>	3	<del>.</del>	£	 EE	364.5	344.7	
	573.0	62. 2 299. 0	1, 124.9	3, 568 127. 3 2, 235		243.0 182.1		8	3,91	4,024.5	 EE	326.3	27.22	
_	1,893.2	59. 1 470. 7	608.8	254 155.7 3,411		3,734.2	:	32, 84	33, 26 1, 455. 0	9, 207. 7	21. 03 138. 5	341. 7	2, 226. 4	
	1, 603, 1	27. 0 216. 5	107.3	1,363 56.3 1,757		1, 206. 9		27.30	32.08	6, 532. 0	15.24	221.2	596.0 105.19	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	3, 902. 4	486.2	236.1	1,842 179.8 3,598	<del></del>	281.3 112.8	-	45.43	57.23 944.3	9,098.0 60.10	289.2	347.6	997. 5	
VEHICLES FOR LAND TRANSPORTATION	Automobiles 2. thous, cars. Motor evoles and hiereles.	Motor cycles.  Bicycles.	Completes, wagons, and repairs: Complete vehicles of all classesthous. vehicles	Passager service	SHIP AND BOAT BUILDING	Vessels of 5 gross tons and over launched: Steel	RUBRER PRODUCTS	Rubber tires and inner tubes: Cossing, pneumadic, automobile, and truck_millions. Taken fither production contemplate on the contemplate of the co	truck truck, truck truck.	thous. prs. mill. prs.		Pienos thousands -	Phonographs: Phonographs Phonographs Records and blanks.	See footnotes at end of table, p. 191.

Table 37.—Quantity of Materials Consumed and Products Manufactured in Selected Industries, by Census Years, and Per Cent of Increase, by Census Periods: 1899 to 1923—Continued

									PER CE	PER CENT OF INCREASE OR DECREASE (—)	CREASE	OR DE	CREASE	Î	
MATERIAL AND PRODUCT		PG.	ACTUAL QUANTITY REPORTED	ANTITY :	reporte	A		24-year			Interc	Intercensal period	riod		
	1923	1921	1919	1914	1909	1904	1899	period, 1899- 1923	1919- 1923	1921- 1923	1919- 1921	1914- 1919	1909-	1904-	1899-
MACHINERY, NOT INCLUDING TRANSPORTATION EQUIPMENT				1.0											
Agricultural implements: Plows - Plows - About			1.5	7											
Acontrolard Nalking Sulky Trackor Trackor	538.8	332.9	103.1	870.4 184.1	1, 110.0	956.9	819. 0 136. 1	-34.2	-25.2	92,	1 1 88.93 88.00	-17.3	-21.6 -18.8	16.0	16.8
Disk. thousands.	9 6 6 6 6 7 6 8	3,5,5	8 8 8 8 8 8	3 H C		E 88	E.17.	1		128. 148.	<u>က်လ</u> (၁)	6,1	29.0	43.5	126.0
xe-tooth and spring-tooth	3.05.5 5.05.6 6.06.6	302.1	302.3	555 S		348.9	380.3	25 1- 5 25 1- 5 20 1-		16.1	स्म ह हां ह	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 0 0 0 0	44 th	4 00 r
2+2-4-2	30.6	101.7	125	215.9		218.0				1 25.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0	5 6 6 1 6 6 1 1 1	9 1 1 1 1 1 1 1 1	ကတ လုံလံ	27.5	75.9
3Ψt 3Ψt	191.9 29.4	137.9 25.0	44	347.3		313.1	295.8			39.2	44	188. 18. 14.		3	
12	85. 15.78	5. 5. 5. 5. 5. 5. 5.	15.55 29.55	215.4		108.8	233.5	1.25.1		13.1	- 53.5 74.7	- 27.85 - 85.80	164.5	18.8	-53.4
id threshers t	4 5	11.7	다. 4.10	. 35		3	€€			7.7	108.3	00	0.0	120.5	
Mowers thousands Hay rakes thousands	130.4	163.8	151.1	274. 5		273.4	398.6	-67.3	1 1 2	ដូវ		O L	1 8 9 9	31.4	-31.4
t	eg s	22.	88	25.5		22.5	7.7		inia inia	वस्य इंक्ट	च चि	- LOT	153	12.5	272.6
+	3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	121	50 S	3.5		3.0	÷E	į	76 88 1 1	N 4	-27. 11 -31, 7	41 1	77.7	35.3	104.0
ower	ମ ବ ମ ଫ	44	o io	4.1 8.1		3 6.1	⊕ 8.8	-24.4	127.3	-2 2 2 2	음 음 는 4	8,83 6,44	8 8 8 8 8	47.5	-25.6
Whether modificat concentre and mindion	10 10	6.1	7.	e ·		<b>E</b>	£		-133. 6	8.6	-15.3			T	
Generators, steam-turbine driven (not including tur- fine)—	-		٠											<del></del>	
	2, 267.0	1, 693. 5	1, 902. 8	600.2	Đ	ε	ε		19, 1	33.9	-11.0	217.0	-		
Stationary motors, not including fan motors— Fractional horsepowerthousands	1, 994. 9	992.6	198.3	64.1	£	ε	: 6		906.0	101.0	400.6				

17.7	-pood-
73. 1 25. 15 25. 15	ion and
19.6	tump
42.0 78.1 144.5 153.8 19.1	Too Boo.
40.4 33.6 41.0 47.2 47.2	
29.3 61.9 61.9 95.9 97.9 108.0	F - F1+1
26.2 -3.0 63.3 27.7 73.3	- Pool with memory became the state of wood-
337.1 277.4 437.8	
22.4 1.95 11,	
1 182	
4 1,382 (1, 382) 16.0.1 1.2.1 1.2.1 1.2.1	
2, 2, 3, 3, 3, 1 1, 2, 3, 3, 1 1, 2, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3,	
2, 882. 8 398. 3 41. 08 71. 09 88. 53	
JWeby         Libragower         5,167.9         3,995.8         4,094.3         2,822.8         2,410.4         1,392.1         1,182.4         337.1         26.2           Librogrands         228.11         115.41         138.4         4.08.4         33.12         16.11         (1)         63.3           Librogrands         225.11         115.41         138.4         4.08.2         33.99         16.11         (1)         63.3           Limilions         221.8         11.57.7         11.08         1.09.1         127.7         27.7           Liboursands         2,602.8         1,096.4         920.2         (1)         (1)         (1)         (1)         137.4	
1, 995. 3 425. 1 115. 41 115. 82 246. 56 1, 251. 6	
167.9 3 688.1 226.11 221.86 389.37 , 602.8	-
ds 5, on the state of the st	-
'ay orsepow chousan mill. l millio millio	
is railwoods. bo	
over, plu f plates)	
and o	
Motors, 1 horsopower and over, 1 motors  Blectric fans. Storage batteries (weight of plates Dry batteries. Incandescent lamps	٠
s, 1 horners. Cofanse. batteries. descent	
Motors, 1 horsepower and over, plus railway motors motors. thous bleatric fans batteries (weight of plates) mil Dry batteries. mil mandescent lamps. mil Telephone instruments.	ľ

1 Figures not available.
2 Goets and kids not included.
3 Goets and kids not included.
4 Includes data for hides received as payment for custom slaughtering.
5 Includes data for hides received as payment for custom slaughtering.
6 Includes data for hides received as payment for custom slaughtering.
7 Figures for 1922 not strictly comparable with earlier years because of enlargement of scope of carvass for prunes and appricots.
7 Figures not comparable.
8 Includes ice manufactured as a subsidiary product.
9 Includes organzine, fram, and crêpe twist, spun silk, machine twist, and sewing, or pricudes organzine, fram, and crêpe twist, spun silk, machine twist, and sewing, subdivides 3 figures for 1923, includes 339,1,35 square yards of carriage cloth for which yards of carriage cloth, and 1921 includes 339,1,35 square yards of carriage cloth for which yards of carriage cloth, and 1921 includes 339,1,35 square yards of carriage reported under the 1923 and 1921 stars yards of carriage reported under 18 figures for 1923 include 535,631 square yards of carriage robe, for which fibers were not 18 figures for 1923 include 334,61,461 square yards of limings and Italian cloth and 17 Signes for 1923 include 334,61,461 square yards of limings and Italian cloth and 17 Signes for 1923 include 334,61,461 square yards of worven goods, for which fibers were not specified.
23,765,615 square yards of worven goods, for which fibers were not specified.
24,568,2019 square yards of worven goods, for which fibers were not specified.
25,082,019 square yards of worven goods, for which fibers were not specified.
26,502,019 square yards of worven goods, for which fibers were not specified.
27,502,019 square yards of worven goods, for which fibers were not specified.

Bource, Census Bull., Forest Products, entitled "Puipwood consumption and woodpulp production."
 Source, United States Geological Survey. These figures differ from those published in the 1923 consus report because of the inclusion of a larger number of establishments in the Geological Survey canves.
 Bestimated from Geological Survey figures.
 Bestimated from Geological Survey ingures.
 Bine 1919 figures have been reported in barrels of 500 pounds, and reduced to equivarished product penal from wood not included in 1889, 1904, and 1909.
 Includes powdered Saper.
 Includes powdered Saper.
 Includes data reported as agricultural lime, 24,113 tons for 1923, and 67,754 tons for 100.

1921.

1 Computed by United States Geological Survey.

2 These figures were transcribed from the annual report of the Director of the Mint.

2 These figures were transcribed from the annual a 'Statistics of production" of tobeceo products were transcribed from the annual report of the Commissioner of Internal Revenue.

2 Includes also data reported by the establishments engaged primarily in other industal Includes also data reported by the establishments engaged primarily in other industal medical section.

tries.

\* The number of "motor vehicles" (including both passenger cars and auto trucks) 

\* The number of "motor vehicles" (including both passenger cars and auto trucks) 

manufactured in 1899 was reported by the Twelfth Census (Vol. X., p. 255) as 4,192. The 
figure was raised slightly owing to the broadened scope of later canvesses.

Table 38.—Index of Production of Manufactures in Leading Industries, by Census Years, and Per Cent of Increase, as Census 1899 to 1923.

4			*	une	WIH O	B. MINTELL	P'A	UI	CULL				
			1899-	93	29.4 12.0 4.0 83.7	11.8 38.8 29.5 22.6	19.9	-2,3	16.8 11.6 19.0	41.8	32, 6	42.1 36.1 67.6 19.0	
	~	!	1904-	30.3	19.5 10.5 4.2 20.6	25.4 41.3 21.3	4.6.4	32.0	PQ.	34.5	15.3	37.1 46.6 24.9 74.9	
	EASE (-	pc	1909-	6.4	8.00 0.04.14.14 0.00 0.00 0.00 0.00 0.00	14.89.4.63.1 12.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.	-5.6	-19.4	1.4.4 6.47	23.4 23.7	18.3	20.2 31.8 35.0 41.5	
	per cent of increase or decrease (—)	Intercensal period	1914- 1919	26.1			40.6	19.6	16.3 13.1	15.7	156.9	41.4 59.7 46.4 35.7 102.4	
	NCREASE	Interce	1919- 1921	-20.6	- 13.1 - 30.4 - 30.4	41.0 84.0 84.0 84.0	-43,4	-20.1	14.8 -17.0 -13.4	-14.8 -3.3		2011-15.9 2011-6	
	ENT OF I		1921– 1923	53.7	19.4 25.4 4.8 82.0	22.24.29.29.20.00.00.00.00.00.00.00.00.00.00.00.00.	131.8	87.8	25.1 22.4 22.4	46.6 46.6		85.44.88 41.28.44	
	PER C		1919- 1923	22.0	112/21 14.08 17.08 17.08	25.22 26.22 26.22 26.23 26.23	31.2	10.1	6.0 6.0	47.4 41.8 8.13		# 19.53 19.53 10.54 10.54	
1929 1		24-year	1899- 1923	160.7	110.6 260.0 86.5 8.3 415.0	102, 5 83. 6 150. 0 259. 7 81. 1	203.7	62 143	<b>51.3</b> 30.4 60.8	274.6 239.6	1.	314.3 402.1 399.6 201.6 868.5	
CENSUS FERIODS: 1899 TO 1923			1899	46.8	34.0 84.0 84.1 24.6	66.9 66.9 44.3 32.5 70.8	43.2	196,4	69.3 80.3 65.9	<b>36.6</b> 36.6	128.4	30, 3 23, 8 45, 1 16, 8	
DS: 18	_		1904	67.2	65.1 44.0 67.9 87.5 45.2	71.9 74.8 61.5 42.1 86.8	61.8	104.0	81. 6 89. 6 78. 4	51.9	170.1	23.23 23.24 23.00 20.00	
FERIO	INDEX NUMBERS, 1919=100		1909	74.5		91, 9 93, 8 86, 8 59, 5	7.	137.3	87.7 89.8 86.1	69.8	196.2	58.8 47.5 50.6 88.7 34.9	
SUSUS	JMBERS,		1917	79.8	l:	101.6 92.9 73.2 104.3		110.6	88.0 88.0 88.4	86.4 89.7	232.2	62.68 6.68 6.68 7.49 7.44	
BY CI	INDEX N		1919	100.0	60.000 0.000 0.000 0.000	100.0 100.0 100.0 100.0	100.0	100.0	100.00 0.00 0.00	100.0 100.0	100.0	1000.00	
			1921	79.4	20.00 20.00 20.00 20.00 20.00	<b>%</b> 88.4988 800.698	56.6	79.9	88.88 8.00 8.00	88.28 4.7.29 7.7.29	ව	28.88.85 1.44.88.85	
			1923	122.0		122.8 115.2 116.2 128.2	131.2	110,1	105.6 104.7 106.0	137.1 124.3 141.8	ව	125.1 119.5 112.4 136.0	
		INDUSTRY		Total	Pood and kindred products	Textiles and their products. Cotton goods. Knit goods. Silk manufactures. Woolen and worsted goods.	Iron and steel and their products	Lumber and its remanufactures	Leather and its finished products. Leather, tanned, curried, and finished Boots and shoes, leather.	Paper and printing Paper and wood pulp Printing and publishing	Liquors and beverages	Ohemicals and allied products. Chemicals and acids. Clear, illuminating and heating. Paint and varnish. Petroleum refining.	

27.00 1.00.01 1.00.01 1.00.01 1.00.01 1.00.01 1.11	1914
35, 27 110, 38 22, 77 22, 77 16, 39 450, 0 19, 10 11, 13 11, 13 1	. State of the sta
28.27.7 33.5.7.8 33.5.7.1 130.8 35.2.7 35.8 1.4 1.4	<b></b>
-11.0 -18.4 -8.7 -7.0 -7.0 -7.0 -7.0 -7.0 -7.0 -7.0 -7	green in this fable, for census years, 1914
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66.8 72.7 72.7 89.0 89.0 15.2 15.3 161.5 161.5 161.5 63.5	
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104.3 128.6 82.0 77.2 77.2 66.6 68.6 15.6 7.3 7.3 21.0	vidual p
113.5 6 102.5 6 103.5 6 107.5 7 76.4 9 86.0 9 22.5 0 22.5 0 37.3 3	in the second of
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155.6 1704.8 1704.8 1517.7 125.7 199.6 119.6 119.0 7.9	Part of Main, region Messen between the relief of the part of the control of the
Stone, clay, and glass products  Brick and tile, terra-cotta, and fire-clay products  Brick and tile, terra-cotta, and fire-clay products  Class  Anterior and metal products, other than iron and steel  Steel  Crobacco manufactures  Automobiles  Railway equipment  Ship and boat building  Rubber products.	1 Tor data from which these indexes are computed, weights and relatives for individual products, and indexes for other industries, not individual products.

## APPENDIX C

## GROWTH OF MANUFACTURES TO 1925

After the preceding tables were prepared and text written, but before they were published, the results of an additional biennial census of manufactures, that for 1925, were compiled and available for use. In order to provide the latest possible information some of the figures from this census are given in the tables at the end of this chapter. The general conclusions, presented in the monograph, regarding the growth of manufactures since 1899 remain practically unchanged by the additional evidence provided by later figures. Table 39 gives data concerning the principal measures of the growth of manufactures from 1899, 1919, and 1923 to 1925.

Table 39.—Per Cent of Increase in Physical Production, Average Number of Wage Earners Employed, and Primary Horsepower Installed, from Selected Census Years to 1925

		T OF INCRE	
	1899-1925	1919-1925	1923-1925
Physical production index Average number of wage earners. Primary horsepower.	174. 6 79. 9 256. 5	28. 5 -6. 8 22. 0	5.3 -4.4 8.2

The year 1925, like 1923, was a year of business prosperity and of activity in nearly all lines of manufacture. The index of production showed an increase of 5 per cent over 1923 in the quantity of goods manufactured, value added by manufacture increased 4 per cent, and amount of primary horsepower installed was 8 per cent larger. The average number of wage earners employed, however, decreased by over 4 per cent. The increases in quantity of goods produced and in horsepower, in contrast to the further decrease in number of wage earners, indicate a continuation of the tendency, noted in earlier periods, particularly between 1919 and 1923, toward greater use of machinery in production and illustrate the limitations of employment statistics as a measure of industrial growth.

For the 26-year period as a whole, production increased by 175 per cent, while the population of the country increased by 54 per cent, giving a per capita output in 1925 nearly 80 per cent larger than in 1899. The amount of primary horsepower installed increased

by over 250 per cent from 1899 to 1925 and the average number of wage earners employed by 80 per cent.

By industries and major industrial groups, the most rapid expansion between 1923 and 1925 occurred in the production of motor vehicles and allied products—rubber tires and gasoline. The large building activity of 1925 was reflected in the increased output of building materials, especially cement. The printing industry continued to expand, and growth was also shown in the canning and preserving, ice-cream, and cigarette industries. Two comparatively new industries which increased considerably in the two years were those manufacturing radio apparatus and rayon. The manufacture of engines and of machine tools also showed some increase. There were decreases, however, during the period in most of the textile industries (silk being the most notable exception) in meat packing and flour milling, in the manufacture of leather and its products, in the railway-equipment industries, and in the production of musical instruments.

By geographic divisions and States, the East South Central and the South Atlantic States appeared to have had the largest expansion between 1923 and 1925, with development of the Pacific Coast and East North Central States continuing at a more rapid rate than that for the country as a whole. Growth was smallest in the New England and Middle Atlantic States, and the Mountain States showed relatively less expansion than in any previous period.

## TABLES OF 1925 FIGURES

Note.—The following tables give data from the 1925 census of manufactures corresponding to those provided for previous censuses in certain of the general tables in Appendix B. Tables 40, 41, and 42 give data for the census years 1914–1925, by major industrial groups, as classified in census reports for 1923 and 1925. Because of differences in grouping these tables do not correspond to any of the tables in Appendix B. Table 43 provides 1925 data corresponding to those given for earlier years in Tables 29, 30, and 31, and Table 44 corresponds to Tables 35 and 36.

The figures in the first three tables conform in manner of presentation more closely to recent, and probably future, census reports, whereas those given in the last two tables provide more exact comparisons with earlier census figures. Figures in Tables 40, 41, and 42 differ from those published in other tables of the monograph in the following respects: (1) The grouping of industries first adopted in the 1923 census has been followed, whereas in the previous tables the earlier classification was observed. (See Ch. IV.) (2) No adjustment has been made in the percentages, as in previous tables (and also in Tables 43 and 44), for the fact that the 1914 and 1919 figures include

data for establishments with products valued at less than \$5,000. (3) The all-industries totals differ from those previously published because data for coffee grinding and roasting, which were not compiled in the census of 1925, have been omitted for all years. Figures for automobile repairing have also been omitted from the 1914 and 1919 totals.

In Tables 43 and 44, the percentages have been computed as in previous tables: Those for the period from 1919 to 1925 by comparison of data only for establishments with products valued at over \$5,000, and those for the 1899–1925 period by chaining each 1923–1925 percentage to the corresponding percentage for 1899–1923 given in previous tables.

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Table 40.—Average Number of Wage Earners Employed in Industrial Groups, by Census Years, and Per Cent of Ingrease, by Census Periods: 1914 to 1925 1

.oN		F	AGE EARNE	WAGE EARNERS (AVERAGE NUMBER)	E NUMBER)			PER CENT	PER CENT OF INCREASE OR DECREASE ()	ASE OR DE	CREASE (-	~
roup	INDUSTRY	1925	1923	1921	1919	1914	1914-1925	1919-19251	1914-19251 1919-19251 1923-1925	1921-1923	1919-1921 1914-1919	1914-1919
g		2 384 261	8, 768, 491	6, 937, 688	9, 030, 771	7,015,136	19. 5	-7.2	-4.4	26.4	23.2	28.7
FH	Food and kindred products	664, 760	672, 472	617, 736	723, 124	527, 887 1, 506, 197	25.9 8.0	-8.1 1.1	-1.1	13.6	-14.6 -6.2	37.0 6.9
300 4	Texules and their products, not including machiners. Impedinted:	851,	892, 660 931, 748	571, 798 703, 309	858, 571 863, 937	618, 349 865, 009	37.7	9.9	4-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1			38.8
1000	Leather and its manufactures. Rubber products. Paper, printing, and related industries.	315, 288 141, 121 536, 766 381, 075	344, 545 137, 868 527, 019 384, 493	280, 071 103, 273 467, 256 314, 231	349, 362 158, 549 510, 049 460, 641	307, 060 74, 022 453, 006 349, 154	9.27 9.53 1.53 1.53	17.52	없었니!. 라서요e	88.818 07.84	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3112 312 316 916 916
8 09	Chemicals and allica produces. Stone, clay, and glass products. Metals and metal products, other than fron and			252, 990	302, 810	335, 824 238, 246	13. S. 1	16.6	4. 27.3	39.08 8.98 8.48	130.5	27.7
크림	Tobacco manufactures Machinery, not including transportation equip- ment	132, 132	146, 337	149, 985		178, 872	38.8	-14.0	4.5.	37.1		61.4
8443	ACHH	46, 980 559, 578 457, 755 262, 079	58, 329 606, 328 523, 430 271, 591	45, 113 405, 773 418, 285 223, 448	68, 741 S58, 582 515, 709 290, 853	48, 768 312, 562 365, 902 215, 541	25.1 25.1 21.6	-31.7 -34.8 -11.2 -9.9	119.77	22.45.25 22.44.25 21.5	1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	174.7 40.9 34.9

1 Differences between figures given in this table and those given in other tables explained in prelatory note, p. 195.

Table 41.—Amount of Primary Horsepower Installed in Industrial Groups, by Census Years, and Per Cent of Increase, by Census 41.—Amount of Primary of Increase,

INDINER			PRIMARY HORSEPOWER	RSEPOWER 2		PER CENT	POF INCREAS	Per cent of increase or decrease ()	ASE ()	
100000000000000000000000000000000000000		1925	1923	1919	1914	1914-1925	1919-19251	1923-1925	1914-1919	
All industries.		35, 772, 628	33, 056, 870	29, 297, 963	22, 264, 343	60.7	22.1	8,2	31.6	
Food and kindred products.  Fortiles and their products.  Iron and steel and their products, not including machinery.  Lumber and allied products.	4	3, 881, 952 3, 986, 136 7, 518, 999 3, 472, 770	3, 685, 667 3, 783, 504 7, 202, 426 3, 336, 133	3, 173, 400 3, 248, 456 6, 430, 002 3, 409, 654	2, 477, 376 2, 717, 369 4, 587, 816 3, 176, 145	26.7 46.7 9.9 8.9	22.3 22.7 16.9 1.9	ಸ್ಕರ್ ಪ್ರಕ್ರತ್ನ ಪ್ರಕೃತ್ತ	28.19.5 19.5 2.2.2.4	
Leather and its manufactures.  Rubbe products. Paper, printing, and related industries.  Chemicals and allied products		413, 759 656, 857 3, 060, 794 2, 984, 913	412, 998 605, 634 2, 743, 529 2, 739, 519	382, 537 429, 273 2, 346, 682 2, 424, 938	311, 194 199, 242 2, 039, 073 1, 920, 277	33.0 50.17 55.14	8,65,65 8,09,65 8,00,6	.%;;;	22.9 115.5 15.1 26.3	
Stone, clay, and glass products.  Medials and metal products, other than iron and steel Tobacco manufactures.  Machinery, not including transportation equipment		2, 348, 157 1, 158, 486 42, 075 2, 714, 377	1, 936, 054 1, 168, 656 43, 515 2, 300, 443	1, 584, 917 951, 770 43, 390 2, 060, 325	1, 493, 976 549, 326 34, 756 1, 256, 908	57.2 110.9 21.1 116.0	22.2.8 3.0.7.2 7.10	점 1.kk점 다 6.kk	20 K 4 K	
Musical instruments and phonographs. Tansportation equipment, air, land, and water. Railroad repair shops. Miscellaneous industries.		97, 318 1, 888, 961 942, 248 604, 826	90, 229 1, 624, 468 806, 435 577, 660	91, 040 1, 453, 804 644, 875 622, 900	57, 526 602, 459 478, 893 362, 007	69.2 213.5 96.8 67.1	20.9 20.9 46.1 2.9	7.9 16.3 16.8	28.13. 12.27. 12.12.	

<sup>1</sup> Differences between figures given in this table and those given in other tables explained in pretatory note, p. 195.
<sup>1</sup> No data for horsepower were given in 1921.

Table 42.—Value Added by Manufacture in Industrial Groups, by Census Years, and Per Cent of Increase, by Census

oN		(E)	VALUE ADD XPRESSED IN	VALUE ADDED BY MANUFACTURE PRESSED IN THOUSANDS OF DOLLA	VALUE ADDED BY MANUFACTURE (EXPRESSED IN THOUSANDS OF DOLLARS)			PER CENT C	per cent of increase or degreese ()	e or decri	EASE ()	
Group	INDUSTRY	1925	1923	1921	1919	1914	1914-19251	1914-1925 1919-1925 1923-1925	1923-1925	1921-1923	1919-1921 1914-1916	1914-1919
	All industries	\$26, 778, 066	\$25, 777, 615	\$18, 272, 417	\$24, 843, 803	\$9, 823, 351	172. 6	7.8	3.9	41.1	-26. 5	152.9
.16	Food and kindred products	2, 669, 858	2, 460, 520 4, 067, 986	2, 084, 389	2, 434, 822 3, 831, 633	1, 036, 345	157.6	9.7	17.2	81.82 0.93	-14.4	134.9
160 4	Iron and steel and their products, not including machinery	2, 727, 318	2, 675, 923 1, 966, 846	1, 316, 046 1, 259, 143	2, 465, 845	821, 818 850, 207	231.9 131.0	-10.6 12.5	1 1. 2 2	103.3	-27.8	200.0 105.2
н то со г	Leather and its manufactures. Rubber productors and industries	752, 458 536, 574 2, 529, 450	796, 740 457, 355 2, 227, 870	609, 788 327, 024 1, 818, 193	896, 425 543, 873 1, 706, 631	351, 460 137, 959 875, 548	114.1 288.9 188.9	16.1 18.2 18.2	17.3	8888 7668	26.95 36.95 36.95	전 - 2 6 2
~∞ ∘	Chemicals and allied products.	2, 253, 116	2, 026, 459		2, 187, 076	377,883	174.5	50.5	4	63.6	-12.2	82.4
95			866, 959	521, 033 439, 801	780, 383	364, 136 283, 031	143.6 135.0	8.57 7.7	25.9 25.9	20.1 20.1	-33.2 -16.9	114.3 87.0
ដដ	Tobacco manuactures Machinery, not including transportation equipment		2, 836, 294	1, 873, 912	2, 795, 216	919, 442	230.1	8.6	7.0	51.4	-33.0	204.0
845		2, 062, 652 769, 033	158, 931 1, 938, 975 888, 734 890, 048	118, 001 1, 215, 144 760, 771 685, 525	183, 445 2, 426, 662 806, 617 821, 633	70, 365 497, 630 291, 180 314, 616	314.5 164.1 212.1	2.55.461 0.7.60	_ 라유덕덕 4476	7.63.08 7.63.08 8.08	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	160.7 287.6 177.0 161.2
16	Miscellaneous industries	201, 020	1000				_		-			

1 Differences between figures given in this table and those given in other tables explained in prefatory note, p. 195,

Table 43.—Average Number of Wage Earners Employed, Amount of Primary Horsepower Installed, and Value Added by Manufacture, in Selected Industries in 1925, and Per Cent of Increase from 1899, 1919, and 1923 to 1925

	NUME	NUMBER OF WAGE EARNEES	OE EARN	EES	N.A.	PRIMARY HORSEPOWER	SEPOWER.		VALUE AI	VALUE ADDED BY MANUFACTURE	ANUFACTU	H
INDUSTRY	Average	Per ce de	Per cent of increase or decrease () 1	ase or	Amount	Per ce	cent of increase or decrease () 1	ase or		Per cer dec	cent of increase decrease () 1	se or
	1926	1809-	1919-	1923- 1925	1925	1899- 1925	1919- 1925	1923-	Value, 1925	1899-	1919-	1925
All industries	8, 384, 261	79.9	-6.8	-4.4	35, 772, 628	256.5	22.0	8.2	\$26,778,066,026	461.2	7.9	3.9
Food and kindred products: Slaughtering and meat packing Bread and other bakery products. Confectionery, cheeving our and itse	120, 422 160, 411	76.1	-25.2 14.2	-6.3	441, 516	420.2 913.2	23.1 37.2	15.5	425, 093, 856 600, 178, 007	317.9	87.5 97.0	3.7 4.0
ream Flour-mill and grain-mill products Canning and preserving fruits and	88, 823 31, 988	232.6	29.6	-9.1	297, 495 669, 910	1, 434, 7	1 23.53 5.51	11.0	348, 830, 815	1,286.6	19.1	14.9 6.2
vegetables Sugar, beet, and cane sugar and its	70,009	2.16	17.1	22.4	151, 341	463.1	14.4	8.9	163, 254, 911	761.6	20.1	7.5
refining Butter and cheese Condensed milk	25,440	58.2	4.0.0	17.0	308, 879 147, 702	84.9 68.1	23.6 2.7.6	7. 0.7.	103,886,078 95,305,527	398. 6 335. 0	15.2	16.9
Glucose and starch <sup>2</sup> . Canning and preserving, fish and oysters. Pickles, preserves, and sauces.	10,530 15,857	53.1 -15.9 120.3	8444 5 8 8 8	1 6 ! 55 4 C C 86	12, 617 19, 527 36, 149	280.3 453.0	39.6 -24.4 61.5	19.6	21, 206, 359 39, 834, 399 21, 866, 570 67, 249, 369	326.0 22.4 609.6	18.82	1.5.1 2.5.3 8.6.6.4
Dreaustun preparations, such as cereals and breakfast foods. Chocolate and cocoa products.	6, 168	442.6	-19.2	8) F	52, 626 58, 266	2,016.2	214.	-14-2 23:52	57, 501, 586 33, 120, 370	1,087.4	11.7	19.1
Cotton goods and cotton lace	452, 190 174, 332	51.8 44.8	ω, 1, 8 4 ± 1	-10.5	2,245,870	184.9 238.4	고 다 1 1 1 1 1 1	3.8	767,	310.8	-24.2	-15.5 -10.8
1 42 1	195, 224 132, 234 186, 668	31.3	 	12.25	212, 235 212, 235 212, 235 23, 235 235 235 235 235 235 235 235 235 235	145.6 144.1 277.1	 성명원 66.46	 	337, 388, 395 324, 856, 872 356, 634, 433	8272.2 824.2 824.4	1 2000 2000 2000	48.45 68.45 68.15
Dyeing and finishing textiles, exclusive of that done in textile mills.	70, 749	137.8	28.5	11.6	252, 701	266.3	38.1	88	£ 2,	595.7	25.9	5.1
	33, 603 15, 400	220.7 19.3 17.5	47.8 12.6	1 1 1 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	11, 986 63, 008 77, 563	551. 1 139. 2 130. 7	-3.4 67.6 16.5	17.0	156, 470, 752 84, 707, 266 33, 600, 060	1,041.3 304.1 199.7	었迟없. 400	6.0 -17.0 -3.0
	one for		1 01	_	25.1	91. (	611	6.7	11 58, 842, 206	179.71	-6.1	-2.1

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1, 404   10, 50   1	25. 25. 25. 25. 25. 25. 25. 25. 25. 25.	1 25.55 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	178.02.02.02.02.02.02.02.02.02.02.02.02.02.	17.6 -17.4 -6.3 -6.3	53.8 -11.7 -20.0	-44.9 -62.4
1, 40.0   10.0	1,490.1 299.1 458.3 385.9 62,0	492.5 492.4 1, 213.1 595.5 1, 177.3	1,735.4 516.6 766.8	38. 38. 1174. 579.	330.2 330.2 438.0 45.9	391.2 216.9 —15.6.
14.404   190.9   6.1   -1.2   15.205   772.0   68.5   15.205   1	209 209 795, 795,	834, 851, 839, 2777, 829, 2777, 829, 239, 239, 2355, 93, 5355, 93555, 9355, 9355, 9355, 9355, 9355, 9355, 9355, 9355, 9355, 9355, 93	1,53,55,55,55,55,55,55,55,55,55,55,55,55,	8274 819, 887, 687,	307, 634, 500 65, 903, 408 37, 641, 451 23, 558, 976	443,751,458 155,379,595 11,307,564
1, 404   190.9   6.1   -1.2   15.205	10.1 1.1.1 1.1.0 1.1.1 1.1.0	44.75.88 83.75.4 83.75.4 8.9.0 8.9.0 8.0 0.0	25.2 -59.7 19.7 36.0	27.1 21.9 5.4 6.1 -17.1	2.0 -3.9 -8.7	35.3.5 35.3.5 35.3.5
1,404   100.9   6.1   -1.2   15,284   772   15,884   772   16,884   37.4   27.1   -2.7   -8.5   15,884   137.1   14,884   14,825   18.3   -21.0   -9.8   8,495   137.1   14,825   11,835   137.2   14,825   18.3   -21.0   -9.8   8,394   137.2   13.84   137.2   13.84   137.2   13.84   137.2   13.84   137.2   13.84   137.2   13.84   137.2   13.84   137.2   13.84   137.2   13.84   137.2   13.84   137.2   13.84   137.2   13.84   137.2   13.84   137.2   13.84   137.2   13.84   13	68.55 -6.85 -20.7 -14.8		18.3 47.9 34.0 19.3 7.48	176.9 14.1 12.0 13.0 11.9	43.2 31.4 22.4	20.4
11,404   190.9   6.1   -1.2   13,	772.0 95.9 579.7 137.4 95.6		946.3 97.2 586.1	1, 675. 7 2, 671. 7 49. 2 248. 3	167.7 162.9 228.9 0.0	193.8 151.2 -16.5
11,404   190.9   6.1   -1.	15, 296 13, 884 13, 884 8, 493 8, 394 4, 497	85.4.4.7.4.8.8.8.9.01 109.001	114, 200 11, 738 11, 016 11, 673 15, 568 84, 534	8,8, 8,8, 8,8, 6,8, 8,8, 8,8,	597, 103 143, 519 29, 164 30, 758	139, 569 222, 678 5, 021
11, 404   190.9   6.	14 64 64 64 64 64 64 64 64 64 64 64 64 64	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	23.2 11.2 0.0 2.0 2.0	46. 1 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4.	8.1 -11.0 -1.0	-8.1 -11.2 -30.9
11, 404   190,	27.1 27.1 27.1 -21.0 -35.2		12.2 112.3 117.2 17.2 145.0	10.7 1.1.0 1.0 1.0 1.0 1.0 1.0	28.9 -17.7 -3.4 -12.1	1-1-256.8 44.44
11   12   13   14   15   15   15   15   15   15   15	190.9 37.4 119.8 18.3 -58.0	102.1 77.0 234.2 98.0	543. 5 36. 7 245. 5 315. 0	594. 4 477. 4 477. 4 104. 9	58.8 58.8 47.4	46.0 1.8 -66.9
	11, 404 49, 864 28, 892 14, 525 7, 187	271, 603 397, 838 397, 838 39, 938 39, 340 39, 376 43, 280	22,889 13,889 14,989 14,969 28,089	17,138 17,935 17,935 12,121 8,987 473,998 180,895	111,329 34,834 11,479 11,483	206, 992 53, 043 4, 570
	Begs, other than paper, not including begs made in textile mills.  Biritis.  Furnishing goods, men's, including cloth gloves and mittons, other than those made in textile mills.  Corrects.  Collers and euffs, men's.  Iron and steel and their products.  Crude iron and steel and rolled products, including products not inade in colling-mill escalabilishments (though, pulling-mill escalabilishments (though).	largety made therem) plus whe and relevant, not elsewhere specified.  Foundry and machine-shop products. Engines, steam, gas, and water.  Madhine tools at the specified.  Hardware.  Stove and hot-air furnaces.  Steam futings and steam and hot-water hearing appearatus.	mas(	ment ment	#  #  #	Jeografic and its missing products.  Books and shoes, not including rabber books and shoes. Leather, tanned, curried, and finished. Saddlery and harness.  See footnotes at end of table, p. 204.

APPENDIX C-GROWTH TO 1925

TABLE 43.—AVERAGE NUMBER OF WAGE EARNERS EMPLOYED, AMOUNT

atinued	ACTURE	increase or	9- 1928- 26 1926	-2.3	-31.9 -10.4	52.3 11.6 14.2 9.7	23.8 46.8 36.0 27.5 8.8	50.1 20.9	26.6 32.1 -7.1 -12.0	40.0 18.1 61.4 7.0 -28.2 40.3 -8.5 13.9	14101-1-
1925—Cor	VALUE ADDED BY MANUFACTURE	Per cent of increase decrease (-)	1899— 1919— 1925 1926	363. 5	241.8	533.9 587.8 544.5	738.1 364.6 344.6 668.7	-76.9 -8	2, 211. 1 1, 021. 7	433.5 402.9 328.6 612.3 6.12.3	0848
DELECTED INDUSTRIES IN 1925, AND PER CENT OF INCREASE FROM 1899, 1919, AND 1923 TO 1925—Continued	VALUE ADI		v anue, 1925	\$29,842,016	18, 574, 394	1,068,120,575 578,197,553 366,022,034	130, 232, 270 66, 550, 116 57, 473, 290 53, 517, 592	42, 651, 549 96, 643, 138	486, 978, 537 287, 597, 638	308, 233, 501 277, 036, 908 104, 213, 882 176, 793, 224 68, 964, 719	100, 882, 852 93, 399, 570 31, 791, 419 30, 477, 018
POWER 1 9, 1919,		Se or	1923- 1925	8.8	12.9	11.1	ည်း ဆုလ် ကို အောင် အောင်	131.7	1.2	10.3 19.4 25.2	28.47.59 22.26.44
r morse rom 1899	SEPOWER	cent of increase decrease ()	1919-	2.0	-7.0	8484 1000 64	39.3 54.3 1.1	-66.8 50.7	64.8 42.9	25.58 16.35.8 26.35.8	
FRIMAR REASE FI	PRIMARY HORSEPOWER	Per co	1899- 1925	138.4	161. 5	239.7 359.7 218.7	724. 4 306. 9 247. 0 351. 9	45.6 683.0	989.8 652.1	236.5 1,246.3 229.9 372.2	1,077.8 223.8 96.9 266.7
MOUNT OF NT OF INC	PR)	Amount	1925	7,893	7,859	237, 662 169, 283 2, 427, 010	76,185 28,623 16,147 35,324	106, 839 62, 026	393, 753 679, 987	58, 163 428, 132 284, 027 143, 111	409, 552 56, 697 37, 808 3, 138
OXED, A. Per Cel	SRS	ase or	1923-	9.6	6	1.0.0.0 0.00.0	3.5	3.2	-25.1	11.2 11.2 11.7 11.7	18.2 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
25, AND	AGE EARNI	Per cent of increase (—)	1919- 1925	-9.3	-25.8	4.0.8 9.00	  -  -	-74.5 12.7	10.9	14.0 135.4 18.7 18.7 18.7	0.48 8.7 9.5 4.4
es in 19	NUMBER OF WAGE EARNERS	Per co	1899- 1925	49.4	17.1	29.2 99.9 149.5	107.1 30.5 32.0 143.1	-77.9 123.7	435.3	73.8 109.6 62.3 163.3	28.00 28.00 28.00 29.00 20.00
OF WAGE DAKWERS DMPLOYED INDUSTRIES IN 1925, AND PER	MON	Average	1925	10, 348	7,197	117,001 133,316 123,842	67, 148 16, 957 20, 836 13, 386	8,749 18,635	65,324 57,890	33, 823 46, 998 22, 700 25, 480 19, 644	23, 191 15, 406 5, 697 29, 413
MANUFACTURE, IN SELECTED I		INDUSTRY		13 X.	tories. Paper and printing: Direction	tinking and publishing, newstaper and periodical. Printing and publishing, book and job. Paper and wood publ. Boxes, name and other, not elevations.	Specified Lithographing Bookbinding and blank-book making. Paper goods, not elsewhene specified.	Liquors, malt, including cereal beverages 4.  Mineral and soda waters.  Chemicals and allied products:	Petroleum refining Chemicals and acids Druggists' preparations, patent medi-	cues and compounds, pertumery and cometics, and drug granding Gas, Illuminating and heating. Oils. Paint and varnish. Fertilizers.	Coke, not including gas-house coke

	69, 371	31.4	-10.5	-5.4	271, 639	413.3	31.0	12.9	182, 306, 988	357.7	6.5	1.7-
brick, the, powerly, and other clay powerly control of the clay Coment	140, 114	38.4 239.9	88.02 80.03	<b>ට</b> හ	573, 741 871, 650	944.1	30.8	8.4 35.6	313, 391, 364 186, 726, 101		85.0 95.0	. 41 
Marble and stone work. Minerals and earths, ground or other-	36, 575	-11.0		r- w ∞i 	240, 297	190.7			070, 216,	1,120,1		1.1
	5		5					,	3			,
Brass, bronze, and copper products Smelting and refining	98.8 98.8	131.8	118	777	361, 242 474, 336	9885 2 2 2 2	i i i i i i i i	-146 -146	187, 084, 196 167, 936, 261	107.4	1,8% a	
Copper, tin, and sheet iron work	24,8				85,273 85,273	188.6		3.0	8 8 9 8 9 8 9	227.4	17.7	14.7
where specified	20,704	197.2	13.2	-15.7		288.9	25.55	1, 1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,	609	962.4	250	-11.3
Tinware, not elsewhere specimed.	36 36 36 36 36 36 36 36 36 36 36 36 36 3	102.3	1 - 1 3 - 2 - 1 2 - 4 - 1	48;	6.15 8.85 8.85 8.85 8.85 8.85	6.009	125	67.0	30, 076, 083	443.9	27.3	i gg
Aluminum manufactures.	14, 355		- - - - - - - - - - - - - - - - - - -	- T - R	92, 306		n éar	0.			o d	ů *
digaret	117, 108	15.1	-14.3	6.6	24, 534	438.1	63	-i	543, 463, 938	440.8	31.4	20.3
Tobacco, coewing and smoking, and snuff.	15,024	48,4	-17.9	-7.8	17, 541	-1.2	-7.2	8 6	121, 767, 777	77.5	11.9	59.0
Vehicles for land transportation, including									3.			
Automobiles	197, 728	8,722.7	9,5	-181	509, 758	16,300.3	92.4	17.0	1,089,930,821	36, 926. 6	4,4	14.3
Steam-fauroad repair shopsAutomobile bodies and parts	288, 382	0.04	167	39.7	662,255		157.9	89.0	ES.		100.5	47.1
Cars, steam and electric railroad, not												
panies	50,383	50.8	13.5	37.5	243, 934	589.7	45.9	245	124, 717, 706	319.1	83.8	-34.6
Electric-railroad repair shops	32, 521	504.8		ි ප් l	(O, 4/9		7 70	9	i i		3	•
3	4,4 885	-91.4	172.5	32.6	20,449	150.8	-12.6	-184 -150	12, 075, 021 12, 080, 988	130.0	- 75.5 - 55.4	-30.2 -15.3
Miscellaneous industries:	900	3 8		8			45.4	7.7		200.5	88 1	-21.7
Shipbunding, steel Blechrical machinery, apparatus, and	00°, 300	Š		2	POR GOOD		\$ .	2 2	1	9	1	ě
Supplies.	239, 921	471.2	13.0	22	589, 338	1, 251.5	e di	ŽĮ.	903, 503, 900	4,002.1		41.4
nutree area, tubes, and rubber goods, not elsewhere specified, including halfter and those rubber	116.122		9.7~	7.1	597, 444	1, 196.8	57.3	8.7	461, 205, 119	2,071.5	4.5	24.4
Agricultural implements	28, 690	-38.3	<b>-47.1</b>	-7.3	115, 325	සු	-10.1		617,		 9.	ා ත්
Shipbuiding, wooden, including bost building	11,916	-24.6	-72.5	15.4	44,007	92.8	7 8	17.9	025	8		22.5
Phonographs and graphophones-	11, 267	288.6	16.8	17.0	45, 782 923, 134	4, 132, 1 824, 4	# 86 0 0	9.2	243,	1,268.4		18
Fur goods.	193	1 00 0 1 00 0	22	14.7	4,05	137.6	4.6	16.0	24, 950, 015	300.4	13.5	1221
Boots and shoes, rubber Photographic materials 7	14,727	385	13,8	10.7	52, 338	1, 484.3	81.0		252,	2,462.9		4 5
See footnotes at end of table, p. 204.												

Table 48.—Average Number of Wage Earners Employed, Amount of Primary Horsdrower Installed, and Value Added by Manufacture, in Selected Industries in 1925, and Per Cent of Increase from 1899, 1919, and 1923 to 1925—Continued

	Per cent of increase or decrease (-)	1839- 1919- 1923- 1925 1925 1925	119. 3 1, 50%. 6 1, 50%. 6 1, 50%. 6 1, 50%. 6 1, 50%. 6 1, 50%. 7 1, 10%. 7 1, 10%. 1 1,
VALUE ADDED BY MANUFACTURE		vaide, 1920	\$51, 885, 134 18, 887, 440 85, 910, 651, 23, 657, 602 48, 227, 610 44, 994, 184 40, 614, 464 56, 198, 396 86, 181, 194 86, 181, 194 86, 181, 194 86, 181, 194 86, 181, 194 86, 188, 186 87, 186, 188
	ise or	1923- 1925	17.78. 0 17.78. 0 17.78. 0 17.78. 0 17.78. 0 17.78. 0
REPOWER	Per cent of increase or decrease ()	1919- 1925	
PRIMARY HORSEPOWER	Per ce	1899– 1925	29.6 1,743.5 434.3 312.9 87.8 87.8 87.8 87.8 568.7 568.0 558.6
PR	Amount	1925 1925	28, 912 28, 912 28, 916 11, 017 11, 01
ERS	ase or	1923- 1925	6414 48444644 64444 4844644
OF WAGE EARNERS	Per cent of increase decrease ()	1919- 1925	26844 26844 26844 20002 200044 200046
BER OF W.	Pere	1899-	23.38.0 133.0 133.0 15.2 25.5 25.5 33.0 33.0 33.0 33.0 33.0 33.0 33.0 3
NUMBER	Average	1925	20079 12,7777 2,82,129 12,127 12,127 12,128 14,128 11,128
	INDUSTRY		Miscellaneous industries—Continued.  Musical instruments, pianos. Ammuniton. Instruments, professional and scientific Optical goods. Mattresses and bedsprings, not elsewhere specified. Roding materials. Rency articles, not elsewhere specified. Party articles, not elsewhere specified. Stationery goods, not elsewhere specified. Signs and advertising novetites. Toys and games. Buttons.

\*Includes "Window and door screens and weather strips for 1899 and 1919." • Cereb beyenges by the by the broad of the bro

Table 44.—Average Number of Wage Earners Employed, and Amount of Primary Horsepower Installed in Geographic Divisions and States in 1925, and Per Cent of Increase from 1899, 1919, and 1923 to 1925

		VAGE EA 'ERAGE )	rners Number)		PRIM	ary nors	epower	
DIVISION AND STATE	Per cent of increase or decrease () 1		1925	Per cent of increase or decrease (-) i				
	1925	1899- 1925	1919- 1925	1923- 1925	1923	1899- 1925	1919- 1925	1923- 1925
United States	8, 384, 261	79. 9	-6.8	-4.5	35, 772, 628	256. 5	22.0	8.1
GEOGRAPHIC DIVISIONS: Now England Middle Atlantic. East North Central West North Central South Atlantic East South Central West South Central West South Central	1, 122, 216 2, 491, 039 2, 342, 799 452, 820 838, 834 355, 996 265, 100 100, 374	32. 0 55. 7 119. 1 72. 0 84. 9 103. 6 136. 3 128. 5	-16.8 -13.0 -1.9 -8.4 3.7 9.0 -6.1 -6.9	-10.5 -7.5 -1.9 -3.6 2.5 -5.4	4, 349, 191 10, 106, 390 10, 047, 780 1, 855, 278 3, 454, 150 1, 615, 183 1, 316, 933 757, 974	144. 0 223. 4 321. 0 209. 8 307. 5 215. 7 234. 2 522. 8	15. 2 18. 9 30. 7 17. 6 24. 1 14. 5 12. 0	4. 8 5. 0 10. 9 8. 2 9. 9 10. 5 3. 7 -2. 5
Pacific	73, 849 66, 658 27, 563 591, 438	6.4 -1.1 -1.2 35.2	-4.1 -16.1 -19.5 -16.9 -17.0	-1.3 -11.4 -11.5 -10.5 -11.4	600, 787 370, 740 178, 800	734. 8 132. 7 84. 0 42. 7 154. 9	10. 3 6. 3 -2. 8 17. 3	5.3 5.1 .9
Rhode Island Connecticut MIDDLE ATLANTIC: New York New Jersey	120, 346 242, 362 1, 066, 202 425, 377	36. 9 52. 1 47. 4 99. 2 51. 1	-13.6 -17.0 -12.8 -16.2 -11.7	-10.6 -7.9 -7.4 -5.1 -8.7	2,013,017 395,754 790,087 3,348,184 1,384,234 5,373,972	159.0 208.8 206.0 332.4 214.3	23, 9 19, 1 14, 6 21, 6 21, 1	1.0 8.7 2.6 10.1 5.2
EAST NORTH CENTRAL: Ohio	676, 742 280, 854 622, 368 515, 494 247, 341	120. 4 103. 1 87. 6 231. 5 80. 6	-7.1 1.7 -4.4 9.6 -5.9	-8.2 -3.5 -3.6 2.4 2	3, 482, 618 1, 420, 989 2, 247, 408 1, 887, 750 1,009, 015	347. 0 337, 2 304. 4 416. 4 179, 2	20. 9 30. 0 36. 2 58. 3 15. 8	5. 3 3. 6 13. 4 28. 3 8. 6
WEST NORTH CENTRAL:  Minnesota	100, 614 74, 976 194, 959 3, 261 5, 151 27, 200 46, 659	57. 2 70. 8 82. 7 151. 6 142. 2 47. 9 73. 8	-12, 2 -5, 8 .9 -23, 6 -15, 6 -24, 4 -22, 8	-3. 2 -3. 7 9 -8. 2 -13. 0 -9. 0	508, 021 308, 016 590, 485 16, 711 21, 463 183, 708 276, 874	183. 9 193. 0 214. 0 137. 6 101. 1 227. 0 309. 7	7. 9 28. 6 24. 4 -1. 8 6. 7 8. 7 19. 4	10. 4 9. 1 6. 7 1 30. 4 3. 3
Pacific. New England: Maine	20, 704 125, 787 9, 753 112, 135 80, 700 182, 234 100, 144 141, 173 66, 204	1. 1 34. 4 59. 1 72. 1 145. 7 155. 3 114. 6 71. 5 88. 0	-28.4 -9.8 -6.6 -4.5 -2.1 17.1 27.0 15.8 -10.4	-10.4 -2.4 7 .5 -5.8 4.9 8.5 2.7 1.8	37, 508 441, 807 431, 981	167, 8 313, 6 267, 8 223, 8 371, 7 419, 8 276, 6 287, 1 209, 3	26. 2 34. 3 14. 0 5. 4 31. 9 40. 0 7. 3 21. 0 4. 1	-4.6 9.4 17.8 2.6 16.3 13.8 16.3 4.1
EAST SOUTH CENTRAL; Kentucky Tennessee Alabama Mississippi	76, 580 107, 645 116, 599 55, 171	50. 5 137. 5 123. 6 109. 0	12.8 14.7 10.0 -2.7	2 1.1 6.4 1.5	257, 905 447, 529 097, 998	80. 6 244. 5 303. 8 222. 9	5. 2 32. 5 11. 3 5. 7	2. 14. 8. 19.
Arkansas Louisiana Oklahoma Texas	43, 977 88, 058 26, 333 106, 792	42. 2 116. 6 1,021. 4 179. 3	-10.3 -9.9 -9.5	-1.3 -7.0 3.3 4.3	177, 011 410, 298 156, 826	125. 1 117. 0 1, 269. 4 397. 6	-16.4 6.2 13.2 30.4	7. 1. 2. 4.
MOUNTAIN:  Motana Idaho Wyoming Colorado New Mexico Arizona Utah Newada	14, 777 15, 794 6, 333 31, 967 4, 620 9, 127 15, 077 2, 670	52. 5 931. 2 212. 3 66. 0 89. 6 104. 6 182. 0 482. 8	-12.4 15.0 -3.0 -8.2 -17.7 8.0 -19.1 -13.9	-7.3 -3.4 -15.7 2.4 -15.2 1.3 -5.2 -42.8	82, 552 28, 721 219, 865 18, 842 102, 127 124, 735	284.1 1,371.3 689.2 412.1 426.1 1,100.7 902.8 840.9	9.3 12.5 68.7 7.8 11.5 -1.4 35.3 -26.1	-12, 14, 19, 24, 11, -20, -12, -47,
PACIFIC: Washington Oregon California	2, 670 105, 893 59, 579 249, 552	237. 4 314. 7 225, 1	-20.0 2,4 3.0	-5.2 -4.9 1.4	748, 110 387, 749	762. 4 549. 7 803. 0	9, 9 28, 1 49, 8	26, 20, 16,

<sup>1</sup> Figures for earlier years from which these percentages were computed are given in Tables 35 and 36, Appendix B. Methods of computing the percentages are explained in prelatory note, p. 196. See also prelatory note, Appendix B, p. 124.