

DRAINAGE—ILLINOIS.

INTRODUCTION.

The following pages present the statistics of drainage for Illinois collected at the census of 1920. The figures relate to conditions on January 1, 1920, except where indicated otherwise. No census of drainage has been taken heretofore, so there are no comparable figures for previous years. The data relate to the artificial drainage of land in farms, and of other land that ultimately will be used for agricultural purposes. The organized drainage enterprises may include areas of unimproved land not yet in farms. The statistics

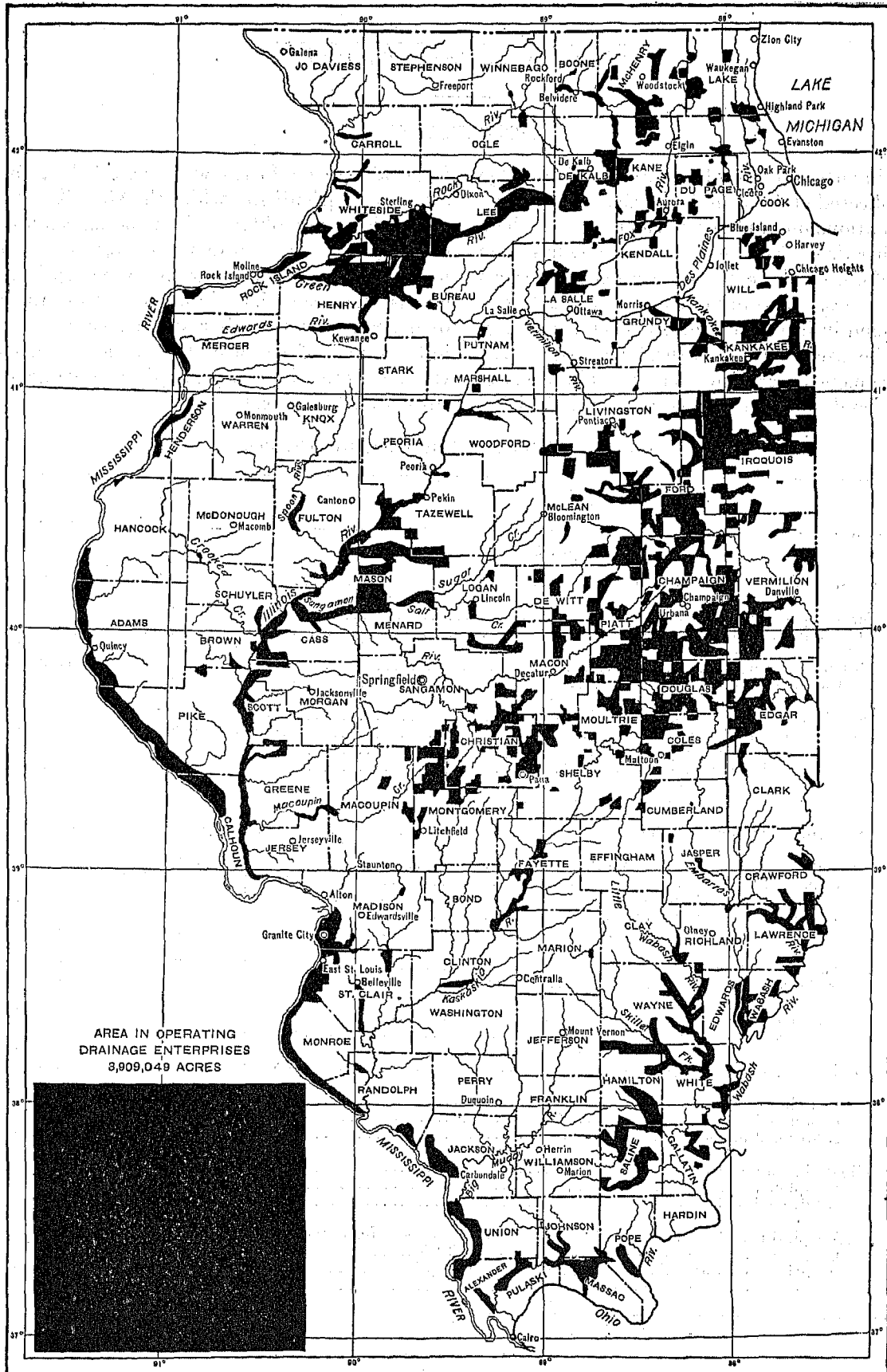
for drainage on farms were collected in the general census of agriculture, while the statistics for drainage enterprises were obtained in a special canvass of those enterprises. Since drainage on farms may be either inside or outside an organized enterprise, and the drains that each individual owner installs upon his own farm may be either supplemental to or entirely independent of the works installed by an enterprise, the figures for the two parts of the drainage census are presented separately.

TABLE 1.—SUMMARY FOR THE STATE: 1920.

ITEM.	Amount.	Per cent of total.
DRAINAGE ON FARMS.		
Number of all farms in the state.....	237, 181	100. 0
Farms reporting land having drainage.....	99, 246	41. 8
Farms reporting land needing drainage.....	33, 731	14. 2
All land in farms.....acres..	31, 974, 775	100. 0
Improved land in farms.....acres..	27, 294, 533	85. 4
Farm land reported as provided with drainage.....acres..	11, 247, 637	35. 2
Farm land reported as needing drainage.....acres..	1, 228, 739	3. 8
Needing drainage only.....acres..	641, 493	2. 0
Needing drainage and clearing.....acres..	587, 246	1. 8
DRAINAGE ENTERPRISES.		
Approximate land area of the state.....acres..	35, 867, 520	100. 0
All land in operating drainage enterprises.....acres..	3, 909, 049	10. 9
Improved land.....acres..	3, 532, 316	9. 8
Per cent of all improved land in farms.....	12. 9	
Timber and cut-over land.....acres..	184, 573	0. 5
Other unimproved land.....acres..	192, 160	0. 5
Swampy, subject to overflow, seeped, or alkali.....acres..	228, 337	0. 6
Suffering a loss of crops from defective drainage.....acres..	229, 065	0. 6
Improved land prior to drainage.....acres..	2, 062, 521	5. 8
Increase since drainage began.....acres..	1, 469, 795	4. 1
Land in nonoperating enterprises.....acres..	72, 984	0. 2
Open ditches in operating enterprises.....miles..	4, 820. 2	100. 0
Completed.....miles..	4, 754. 5	98. 6
Additional under construction.....miles..	65. 7	1. 4
Tile drains in operating enterprises.....miles..	3, 634. 2	100. 0
Completed.....miles..	3, 507. 1	96. 5
Additional under construction.....miles..	127. 1	3. 5
Total capital invested in and required for completion of operating enterprises..	\$51, 393, 244	100. 0
Capital invested in these enterprises to Dec. 31, 1919.....	43, 595, 069	84. 8
Additional capital required to complete these enterprises.....	7, 798, 175	15. 2
Average cost per acre when completed.....	13. 15	

ILLINOIS

APPROXIMATE LOCATION AND AREA OF OPERATING DRAINAGE ENTERPRISES.



DRAINAGE ON FARMS.

Explanation of terms.—To secure uniformity in the returns relating to drainage on farms, the Bureau of the Census supplied its enumerators with certain definitions, which are substantially as follows:

Drainage of agricultural land was defined, for census purposes, as the act or process of drawing off an excess of water by underground conduits, pipes, or tiles, or by open or covered trenches in the surface of the ground, for the purpose of improving the condition of the soil and crops.

The area provided with drainage, in farms, is the acreage actually benefited or made of more value for agricultural purposes by artificial drainage, but does not include land on which only temporary work has been done, such as "bedding" the fields or laying out "dead furrows" to hasten the surface flow.

The area needing drainage, in farms, comprises the additional land not now suitable for crops which could be made available for cultivation (1) "by drainage only," which is the acreage needing no clearing or which is covered with grass, weeds, or other annual growth, and (2) "by drainage and clearing," which is the acreage covered with trees, stumps, or perennial woody shrubs.

Improved land in farms includes all land regularly tilled or mowed, land in pasture which has been cleared or tilled, land lying fallow, land in gardens, orchards, vineyards, and nurseries, and land occupied by farm buildings.

Woodland in farms includes all land covered with natural or planted forest trees which produce, or later may produce, firewood or other forest products.

Farms in drainage and levee districts are those for which the operators have answered affirmatively the question, "Has any part of this farm been afforded drainage or protection against overflow by a drainage or levee district, or by the state, the county, or a private company or individual." Levee districts, however, generally are not included in the enterprises for which data are given in this report (see definition of drainage enterprises, below).

Farms and farm land.—The acreage shown for drainage on farms represents land where drainage is actually in operation and which has actually become more fully available for growing crops by reason of the drainage. This is to be distinguished from the area merely provided with outlet facilities by organized drainage enterprises. Drainage on farms represents in most cases the result of work done by the farm owner, either independently or supplemental to the work done by a drainage enterprise, but the acreage would include also any farm land receiving similar benefits directly from the works of an enterprise.

DRAINAGE ENTERPRISES.

Explanation of terms.—The more important terms used in connection with the census of drainage enterprises were defined as follows:

Drainage enterprises comprise public corporations and local improvement districts formed under state laws, commercial enterprises draining swamp or overflowed land for sale, other organizations that may be engaged in extensive land-drainage work, and also tracts of 500 acres or more drained by individual owners. Enterprises such as levee districts that have not authorized the construction of open ditches or tile drains are not included.

Enterprises located in more than one county were divided, for tabulation, and the part in each county treated as a separate enterprise, though the capacities of drainage pumping plants are given only in the counties in which the plants are located.

Operating enterprises, as designated in this bulletin, are those that had completed the drainage works authorized, or had at any rate begun actual construction work, on or before January 1, 1920; enterprises that had been established but had not begun construction are termed "nonoperating."

Land in drainage enterprises comprises the area that has been benefited or is to be benefited by the improvement works constructed by the enterprises. In the case of overlapping enterprises, deduction has been made for the amount of duplication.

All land in drainage enterprises is divided, without regard to drainage condition, into (a) improved land; (b) timber and cut-over land, which would require clearing to be thoroughly fit for cultivation; and (c) all other unimproved land, which would not require expensive clearing before cultivation.

The assessed acreage for any single enterprise is the same as the area in that enterprise. However, the total assessed acreage may be considerably greater than the total land in enterprises, for in summing up the assessed acreage in the county or state, deduction was not made for acreage assessed in more than one enterprise.

Improved land in drainage enterprises consists very largely of improved farm land, though it may include some other improved land receiving benefit from the works of the enterprises.

Timber and cut-over land includes farm woodland of natural or planted forest trees as well as other timber land or areas that would need clearing of trees, stumps, or perennial woody shrubs.

Land designated as swampy or subject to overflow includes all land permanently or generally too wet for cultivation, land subject to periodical inundation by stream floods, seeped and alkali land in irrigated regions, and all other land unfit for cultivation by reason of insufficient drainage. This classification is without respect to the conditions as to improvement or timber.

The area suffering loss of crops is intended to include only land devoted to planted crops which suffer damage, either partial or complete, because of defective drainage. Land which would be cultivated if drained or protected against overflow is not included.

Capital invested, for the purpose of this investigation, was defined as cost, including charges for engineering, organization, rights of way, construction of drainage works, damages, land and buildings except those held for sale or farming, and any other expenditures properly chargeable to drainage and paid by the enterprise.

The drainage works of an enterprise include all varieties of underground conduits, pipes, or lines of tile, or drains of stone, wood, or other material; also open ditches and canals, together with accessory levees, dikes, dams, weirs, pumping machinery, gates, and other devices for the draining away or control of surface and soil waters.

Tile, as the term is here used, includes pipes of earthenware, concrete, or other material buried beneath the surface in such a way as to permit the excess water to flow away. The size, if circular, is expressed by the inside diameter in inches.

Ditches include all open artificial trenches, usually with sloping sides. The width is that of the bottom.

The type of drainage shows whether the drainage water from an enterprise is discharged by gravity or by pumping.

A pumping district is one where all or a part of the water from the drains collecting at a low point must be raised by some form of machinery in order that it may be removed from the area.

Drainage pumps include all kinds of machinery and devices for lifting the drainage water.

Pumping engines include all kinds of engines and motors for operating the drainage pumps.

Operating and nonoperating enterprises.—In most of the tables that follow, statistics are given for operating enterprises only. These enterprises, as already defined, include both those which have completed their drainage works and those with such works under construction; among the latter may be some that had completed the original plan of improvement several years ago, but were constructing extensions or enlargements on January 1, 1920. The nonoperating enterprises have a legal existence, though they have not yet accomplished any drainage. They may include districts that on the census date had completed their plans, sold bonds to cover the cost of the undertakings, and let contracts for the construction work, and also districts that had just been established and were still subject to considerable change in area, plan of drainage works, and cost.

TABLE 2.—LAND AND CAPITAL INVESTED IN ALL ENTERPRISES, CLASSIFIED AS BETWEEN OPERATING AND NONOPERATING ENTERPRISES: 1920.

CLASS.	LAND.		CAPITAL. ¹		
	Acreage.	Per cent of total.	To Dec. 31, 1919.		Additional required to complete.
			Amount.	Per cent of total.	
All organized enterprises.....	3,982,033	100.0	\$43,595,069	100.0	\$9,199,841
Operating enterprises.....	3,909,049	98.2	43,595,069	100.0	7,798,175
With works completed.....	3,430,474	86.1	31,424,167	72.1	.....
With works under construction..	478,575	12.0	12,170,902	27.9	7,798,175
Nonoperating enterprises.....	72,984	1.8	.....	.....	1,401,666

¹ The inquiry asked for the "total cost of the enterprise to Dec. 31, 1919," and for an "estimate of additional investment to complete."

Location of enterprises.—The greatest portions of the land in drainage enterprises are in the eastern and northern parts of the state, though there are many enterprises in the central and southeastern parts and along the Mississippi, as shown by the map on page 136. The pumping districts are almost entirely along Illinois and Mississippi Rivers, below Peoria and from near Rock Island to the vicinity of St. Louis.

TABLE 3.—LAND AND CAPITAL INVESTED IN ALL ENTERPRISES, CLASSIFIED BY DRAINAGE BASIN: 1920.

DRAINAGE BASIN.	LAND.		CAPITAL.		
	Acreage.	Per cent of total.	To Dec. 31, 1919.		Additional required to complete.
			Amount.	Per cent of total.	
All organized enterprises.....	3,982,033	100.0	\$43,595,069	100.0	\$9,199,841
Operating enterprises.....	3,909,049	98.2	43,595,069	100.0	7,798,175
Wabash River.....	884,974	22.2	5,739,404	13.2	303,138
Ohio River.....	172,397	4.3	1,547,559	3.5	59,600
Illinois River.....	1,537,539	38.6	16,121,388	37.0	1,162,039
Rock River.....	488,002	12.3	4,754,557	10.9	369,500
Mississippi River.....	790,198	19.8	15,107,494	34.7	5,906,898
Lake Michigan.....	35,969	0.9	324,667	0.7	.....
Nonoperating enterprises.....	72,984	1.8	.....	.....	1,401,666
Ohio River.....	16,214	0.4	.....	.....	78,000
Illinois River.....	59,490	1.3	.....	.....	1,225,676
Rock River.....	3,280	0.1	.....	.....	97,990

Condition of land in enterprises.—The drainage enterprises situated along and near the larger streams have been organized to secure relief for land subject to inundation by overflow waters. These comprise about 28 per cent of the land in all operating enterprises. The other enterprises are for the reclamation of swampy land or the improvement of land too generally wet for profitable cultivation. Approximately 53 per cent of the land was reported as improved land prior to the organization of the enterprises, and 12 per cent as timbered or cut-over.

The usual purpose of an organized enterprise is merely to provide adequate outlets into which the land-owners of the district may drain their farms and to afford relief from overflows for the district as a unit. Therefore, the fact that an enterprise which has completed the construction of the drainage works authorized contains land still swampy or subject to overflow, or land that suffers damage to crops, does not show that the improvement works are inadequate.

TABLE 4.—LAND IN ALL ENTERPRISES, CLASSIFIED BY CONDITION: 1920.

CONDITION OF LAND.	OPERATING ENTERPRISES.				Non-operating enterprises (acres).
	Total.		Works completed (acres).	Works under construction (acres.)	
	Acreage.	Per cent of all land.			
All land in enterprises.....	3,909,049	100.0	3,430,474	478,575	72,984
Improved land.....	3,532,316	90.4	3,232,337	299,979	44,993
Timber and cut-over land.....	184,573	4.7	101,205	83,308	3,714
Other unimproved land.....	192,160	4.9	96,872	95,288	24,277
Swampy or subject to overflow.....	228,337	5.8	98,635	129,702	29,264
Suffering a loss of crops.....	229,065	5.9	188,167	40,898	13,507

Size of enterprises.—Presentation of the statistics by counties requires that an enterprise located in more than one county be divided, and the part in each county be considered a separate enterprise. In this way 1,365 operating drainage enterprises are counted in Illinois, with an average area of 2,997 acres assessed. Of this number, 75 comprise 10,000 acres or more each, 674 comprise 1,000 to 5,000 acres each, and 181 are smaller than 500 acres each. The assessed acreage exceeds the land in enterprises by 181,550 acres, which is the amount of overlapping.

TABLE 5.—LAND IN OPERATING ENTERPRISES, CLASSIFIED BY SIZE OF AREA ASSESSED: 1920.

SIZE GROUP.	Land in enterprises (acres).	ASSESSED AREA.	
		Acreage.	Per cent of total.
All operating enterprises.....	3,909,049	4,090,599	100.0
Less than 200 acres.....	2,680	3,951	0.1
200 to 499 acres.....	32,153	50,556	1.2
500 to 999 acres.....	169,207	210,371	5.1
1,000 to 4,999 acres.....	1,447,948	1,547,003	37.8
5,000 to 9,999 acres.....	955,019	976,666	23.9
10,000 to 49,999 acres.....	1,239,709	1,239,719	30.3
50,000 to 99,999 acres.....	62,333	62,333	1.5

The land in enterprises and the assessed acreage on each line of Table 5 refer to the same enterprises. From the total area of each enterprise, designated as the assessed area, the net amount of overlapping with enterprises organized previously was deducted, to determine the area to be tabulated as land in enterprises.

Character of enterprises.—Very nearly all of the drainage enterprises in Illinois are drainage districts organized under either the levee act of 1879 or the farm drainage act of 1885. There are a few other districts organized under similar statutes of earlier dates and under county ditch and sanitary district laws, and there are some drainage undertakings of more than 500 acres each by individual landowners.

The so-called levee act of May 29, 1879, as amended, provides for the formation of "drainage and levee districts" for either drainage or flood protection, or for both. Each enterprise is established by order of the county court upon petition from owners of land to be included in the district, if the improvement works are necessary or will be useful in draining the land for agricultural, sanitary, or mining purposes. Jurisdiction for a district in more than one county lies with the court of the county containing the greatest part of the district. The petition must be signed by a majority of the owners who must own at least one-third of the acreage in the district, or by one-third of the owners who own a majority of the acreage. A preliminary investigation, including surveys and the preparation of a plan of drainage and estimates of cost, is made by three commissioners appointed by the court, who become the corporate authority of the district when the order of establishment has been issued, to secure construction of the drainage works. Public hearings are held by the court to determine the sufficiency of the petition before the commissioners are appointed, and to consider the commissioners' report before the district is established. The order of establishment is appealable to the state supreme court. Benefits and damages are assessed by the commissioners against the tracts of land affected, including railroads, public highways, and municipal corporations, which are confirmed by the county court with any amendments deemed equitable after hearing before a jury impaneled as in eminent domain cases. The cost of the enterprise is apportioned according to the benefits confirmed. Bonds of the district may be issued for not exceeding 90 per cent of the assessments unpaid at the time of issue.

Under the levee act a justice of the peace has concurrent jurisdiction with the county court for districts that will not cost more than \$2,000, but the hearings on objections to the assessments of benefits and damages must be held by the county court. Districts may be established by mutual agreement of the owners of all the land to be included, duly recorded in the county drainage record. The agreement may

determine the location and character of the drains, the awards of damages, the apportionment of the cost, and the selection of the first commissioners. Subdistricts may be established by the county court in any district maintaining a levee as part of the improvement works, upon confirmation of a special report describing the proposed subdistrict, submitted by the commissioners upon their own initiative or upon petition from the landowners in the subdistrict.

As enacted in 1879, the levee act required that the petition for establishment be signed by a majority of the owners owning at least one-third of the acreage to be included in the district; it did not authorize appeal from the county court's order of establishment; it provided for the assessment of damages and benefits by jury; justices of the peace were given jurisdiction in cases where the cost would not exceed \$5,000; and bonds might be issued for the full amount of unpaid assessments.

The act of April 24, 1871, was similar in its principal provisions to the levee act, by which it was repealed in 1879. The districts under it were established by the county court upon petition from the landowners. The court appointed three drainage commissioners to prepare the plan of drainage and estimates of cost, and to secure construction of the drainage works. Benefits and damages were assessed by the commissioners and confirmed by the court after public hearing, or the court might impanel a jury to determine benefits and damages. Small enterprises were established by justices of the peace and administered by the highway commissioners.

The farm drainage act, as it is generally termed, was approved June 27, 1885. As in force on the census date, it provides for the establishment of drainage districts by the town commissioners of highways, upon petition signed as for a district under the levee act, by a majority of the owners who own a third of the land or by a third of the owners who own a majority of the acreage. The highway commissioners secure a survey and estimates for the undertaking. After hearing upon their report, they establish the district if they find favorably or if it then is desired by two-thirds of the owners who own more than half the acreage to be included. The corporate authority after establishment is vested in three drainage commissioners elected by the landowners. These commissioners fix the boundaries of the district, determine the plan of drainage, obtain rights of way by agreement or by proceedings before a justice of the peace, and secure construction of the works. The land is classified according to benefits by the drainage commissioners, the tract to receive greatest benefit being rated 100 per cent and the others in proportion. Hearing upon this classification is held by the commissioners, and their determinations are subject to appeal to the

county court. The cost of the enterprise is apportioned according to the benefits as finally confirmed.

The farm drainage act authorizes the establishment of union drainage districts situated in two towns in one or two counties under township organization, in a manner similar to that for a district in only one town. The petition is filed in the town embracing the greater part of the district, the commissioners before establishment being appointed by the town clerk from the highway commissioners of both towns. Subdistricts may be organized by the landowners in the same manner as main districts, or by the district commissioners upon their own initiative. By petition to the county clerk, the landowners in a subdistrict embracing not less than five sections of land may elect their own commissioners. Subdistricts may be divided by the commissioners into minor subdistricts for assessment purposes. Districts may be formed by mutual agreement duly recorded in the town drainage record, by the same method as districts by mutual agreement under the levee act. A district may be established to maintain any drain previously constructed by voluntary agreement between two or more landowners, upon petition from any user of the drain, in a manner similar to that described for other districts under the farm drainage act.

Special drainage districts may be formed under this act, comprising land in three or more towns in one or more counties, or all or partly in a county or counties not under township organization. The petition is made to the county court of the county containing the greatest part of the proposed district. The preliminary investigation is made by three commissioners appointed by the court. After establishment the district is managed by three commissioners elected by the landowners, or appointed by the court when there are less than 15 landowners in the district. Classification of the land according to benefits is made by the commissioners, and damages are determined by jury in the county court. Special drainage districts may issue bonds for not more than 90 per cent of the unpaid assessments.

The establishment of a private drain across the land of an objecting owner, when necessary, is authorized by the farm drainage act. Petition must be made to a justice of the peace, who assesses the damages to be paid for constructing the drain or impanels a jury to assess those damages.

As enacted in 1885, the farm drainage act provided that the highway commissioners should continue to be the drainage commissioners after the districts were established, and that damages should be assessed by jury, but did not authorize the election of commissioners in subdistricts nor the formation of minor subdistricts.

The establishment of drainage districts, union districts, and special drainage districts was authorized

by a statute approved May 29, 1879, and in force July 1, 1879. The method of organization in each case was very similar to that prescribed by the farm drainage act of 1885, which repealed the earlier law.

County ditches or drains are established in accordance with an act of June 23, 1883. That law provides for the maintenance and improvement of drains constructed by the counties to drain swamp and overflowed land donated to the counties by the state. Each county board is authorized to appoint three district commissioners to divide those drains into proper districts, and to assess the benefits against the land as the basis for apportioning the cost of the work. The county board may also appoint for each district one drainage commissioner to have charge of the work under direction of the board.

Sanitary districts are formed under an act of May 17, 1907. Each must comprise a contiguous area of land subject to overflow within two counties, must include two or more incorporated cities or villages, and must have a population not less than 25,000. Such districts are established by a board of commissioners consisting of the county judge of each county in which the district is located and one circuit judge, after favorable vote by the legal voters of the district. A petition for establishment must be signed by 300 voters in the district. Control of the enterprise is vested in five elected trustees, and the cost is paid by an ad valorem tax on the taxable property in the district.

Circuit courts of the state and superior courts of Cook County were given concurrent jurisdiction with the county courts in all matters relating to farm drainage and levee matters, by an act of June 5, 1909.

The issue of bonds by drainage districts established under any law of the state is authorized by an act of June 15, 1895. Issues made by authority of this act must not exceed 90 per cent of the assessment that has been levied, and petition for the issue must be made by property owners representing a majority of the land in the district.

The first drainage law of Illinois was approved June 22, 1852. It provided for the survey and sale of the swamp land of each county under control of the county court, and the drainage of that land with the proceeds of the sales. An act of February 16, 1865, provided for the establishment of drains by boards of drainage commissioners, consisting of the town commissioners of highways, upon petition from owners of land to be drained. Those commissioners assessed damages and benefits against the land through which the drain would pass, and allotted the work of construction in proportion to the assessed benefits. A large number of other laws relating to drainage have been enacted in this state. Those that affected the character of enterprises have been repealed or are embodied in the foregoing statement.

TABLE 6.—LAND AND CAPITAL INVESTED IN ALL ENTERPRISES, CLASSIFIED BY CHARACTER OF ENTERPRISE: 1920.

CHARACTER OF ENTERPRISE.	LAND.		CAPITAL.			
	Acreage.	Per cent of total.	To Dec. 31, 1919.		Additional required to complete.	
			Amount.	Per cent of total.		
All organized enterprises.....	3,982,033	100.0	\$43,595,069	100.0	\$9,199,841	
Operating enterprises.....	3,909,049	98.2	43,595,069	100.0	7,798,175	
Levee drainage districts.....	1,718,628	43.2	23,190,834	53.2	2,583,067	
Act of Apr. 24, 1871.....	10,000	0.3	180,780	0.4	28,000	
Act of May 29, 1879.....	1,708,628	42.9	23,010,054	52.8	2,555,067	
Farm drainage districts.....	2,109,099	53.0	15,388,792	35.3	709,508	
Act of May 29, 1879.....	85,724	2.2	439,632	1.0		
Act of June 27, 1885.....	2,023,375	50.8	14,949,160	34.3	709,508	
Special drainage districts.....	837,454	21.0	7,170,069	16.4	519,500	
County ditches.....	3,780	0.1	10,303	(1)		
Sanitary districts.....	60,000	1.5	4,500,000	10.3	4,500,000	
Individual ownerships.....	17,542	0.4	505,140	1.2	5,000	
Nonoperating enterprises.....	72,984	1.8			1,401,666	
Levee drainage district.....	69,984	1.8			1,365,905	
Act of May 29, 1879.....	69,984	1.8			1,365,905	
Farm drainage district.....	3,000	0.1			35,761	
Act of June 27, 1885.....	3,000	0.1			35,761	

¹ Less than one-tenth of 1 per cent.

Drainage works.—The total works completed by drainage enterprises to December 31, 1919, comprised 4,754.5 miles of open ditches, 3,507.1 miles of tile drains, and 650.2 miles of levees; the additional lengths under construction were 65.7 miles of open ditches, 127.1 miles of tile drains, and 97.1 miles of levees. These figures do not include drains or levees installed by individual farm owners supplemental to the works of the enterprises, nor the works of flood-protection or levee districts that had not undertaken the construction of ditches or tile drains. There are 49 pumping districts among the operating drainage enterprises in the state, 7 of which comprise land in more than one county. They are all equipped with 107 pumps of 2,843,066 gallons per minute total capacity. All are centrifugal pumps except 2 rotary pumps of 18,000 gallons per minute capacity and 2 of kind not reported having 25,000 gallons per minute estimated capacity.

TABLE 7.—LAND AND CAPITAL INVESTED IN OPERATING ENTERPRISES, CLASSIFIED BY KIND OF DRAINAGE WORKS: 1920.

KIND OF WORKS.	LAND.		CAPITAL.			
	Acreage.	Per cent of total.	To Dec. 31, 1919.		Additional required to complete.	
			Amount.	Per cent of total.		
All kinds.....	3,909,049	100.0	\$43,595,069	100.0	\$7,798,175	
Open ditches only.....	1,508,695	38.6	11,280,913	25.9	593,742	
Open ditches and levees.....	452,588	11.6	13,344,715	30.6	6,114,536	
Tile drains only.....	392,738	10.0	3,086,665	7.1	94,782	
Tile drains and levees.....	10,109	0.3	180,000	0.4		
Open ditches and tile drains.....	1,327,996	34.0	10,030,005	23.0	611,865	
Open ditches, tile drains, and levees.....	210,923	5.5	5,692,788	13.1	383,300	

The average depth of the main or outlet ditch was reported for each enterprise. The maximum depth of

outlet reported for any enterprise in the state and the maximum in each county are shown in line 15 of County Table II. The maximum length, width, and depth of outlet shown in that table for any county may not refer to the same enterprise.

In County Table II, line 16 shows the mean depth of branch ditches (open ditches only), which is a very crude indication of the depth of soil drainage that may be obtained in the enterprises as determined by the depth of outlet provided for farm drains. The mean depth was computed by giving each separate depth a weight in proportion to the acreage it serves. As most enterprises reported depths in whole numbers only, the occasional decimals were omitted in making these computations. Depths less than 3 feet and those 10 feet and greater were omitted because it seemed that they did not represent so well the average depths of outlet provided for all the farms in those districts. To include both these groups, computed as 3 feet and 10 feet, respectively, would make the mean depth for the state 5.1 instead of 4.8 feet.

TABLE 8.—LAND AND CAPITAL INVESTED IN OPERATING ENTERPRISES, CLASSIFIED BY TYPE OF DRAINAGE: 1920.

TYPE OF DRAINAGE.	LAND.		CAPITAL.			
	Acreage.	Per cent of total.	To Dec. 31, 1919.		Additional required to complete.	
			Amount.	Per cent of total.		
All operating enterprises.....	3,909,049	100.0	\$43,595,069	100.0	\$7,798,175	
Gravity drainage only.....	3,583,206	91.7	31,533,478	72.3	2,508,689	
All drainage by pumping.....	157,360	4.0	6,226,386	14.3	552,986	
Part gravity and part pumping..	168,483	4.3	5,835,205	13.4	4,706,500	
Total area served by pumps.....	291,816	7.5				

TABLE 9.—PUMPING PLANTS OF OPERATING ENTERPRISES, AND ACREAGE SERVED, CLASSIFIED BY KIND OF POWER: 1920.

KIND OF POWER.	ENGINE CAPACITY.		PUMP CAPACITY.		AREA SERVED.	
	Horsepower.	Per cent of total.	Gallons per minute.	Per cent of total.	Acreage.	Per cent of total.
All operating enterprises..	18,225	100.0	2,843,066	100.0	291,816	100.0
Steam.....	5,805	31.9	1,070,900	37.7	137,291	47.0
Electric.....	10,445	57.3	1,529,696	53.8	134,959	46.2
Internal-combustion.....	325	1.8	52,500	1.8	4,243	1.6
Steam and electric.....	11,650	9.1	190,000	6.7	15,323	5.3

¹ Includes 1,250 steam, 250 electric, and 160 horsepower not divided.

TABLE 10.—LAND IN OPERATING ENTERPRISES, CLASSIFIED BY AVERAGE DEPTH OF BRANCH DITCHES: 1920.

DEPTH OF BRANCH DITCHES.	Acreage.	Per cent of total.
All operating enterprises.....	3,909,049	100.0
Less than 3 feet.....	21,657	0.6
3.0 to 3.9 feet.....	108,241	2.8
4.0 to 4.9 feet.....	368,769	9.4
5.0 to 5.9 feet.....	325,687	8.3
6.0 to 6.9 feet.....	395,989	10.1
7.0 to 7.9 feet.....	257,043	6.6
8.0 to 8.9 feet.....	391,984	10.0
9.0 to 9.9 feet.....	46,556	1.2
10 feet and more.....	132,716	3.4
Not reporting branches.....	1,860,407	47.6

Maintenance of works.—In districts organized under the levee act of 1879, when assessing the benefits for construction the commissioners assess also, if so directed by the court, the annual amount of benefits to each tract from maintenance of the works and from operation of the pumping plants. These assessments for maintenance and operation are reviewed and confirmed in the same manner as the assessments for construction. The annual assessments for maintenance must not exceed, except in pumping districts, an aggregate equivalent to 30 cents per acre on all land in the district. The maintenance assessments may be made or increased in the same manner as assessments for construction, upon petition from the landowners or from the district commissioners.

The drainage works of districts organized under the farm drainage act of 1885 are to be maintained by the commissioners of the respective districts or subdistricts. The commissioners of drainage districts situated in one town may use the district funds for making repairs, and when necessary may levy additional taxes for maintenance. Commissioners of special drainage districts are required to file each year an estimate of the funds required for maintenance, which are assessed in proportion to the benefits assessed for construction. Maintenance in union drainage districts, in subdistricts, and in minor subdistricts is provided as in drainage districts in one town.

The improvement works in sanitary districts under the statute of 1907 are to be maintained by the respective boards of trustees of the districts, who may levy taxes and issue bonds for this purpose.

TABLE 11.—LAND AND CAPITAL INVESTED IN OPERATING ENTERPRISES, CLASSIFIED BY METHOD OF MAINTENANCE: 1920.

METHOD OF MAINTENANCE.	LAND.		CAPITAL.			
	Acreage.	Per cent of total.	To Dec. 31, 1919.		Additional required to complete.	
			Amount.	Per cent of total.		
All operating enterprises.....	3,909,049	100.0	\$43,595,069	100.0	\$7,798,175	
By district forces.....	1,658,434	42.4	22,252,977	51.0	6,335,988	
By contract.....	1,412,552	36.1	12,205,434	28.0	306,464	
By method not specified.....	197,894	5.1	2,637,740	6.1	34,900	
By landowners.....	9,808	0.3	347,306	0.8		
No maintenance provided.....	356,097	9.1	3,414,637	7.8	160,468	
Not reporting.....	274,264	7.0	2,736,975	6.3	960,355	

Date of organization.—The progress in drainage development is shown only roughly by the dates of the organization of the enterprises, which are the dates when the orders of establishment were made, since there may be a period of one or more years between the order of establishment and the beginning of actual construction, and since the work of construction may occupy several years in a large district. It was not practicable, however, for the census to secure data as to the time of the beginning or the completion of the drainage works. Under the date of organization are

tabulated the entire area, works, and capital of each enterprise, even including extensions made after the original plan of drainage was completed.

TABLE 12.—LAND IN OPERATING ENTERPRISES, CLASSIFIED BY DATE ENTERPRISE WAS ORGANIZED: 1920.

DATE OF ORGANIZATION.	LAND.		AREA ASSESSED.	
	Acreage.	Per cent of total.	Acreage.	Per cent of total.
All operating enterprises.....	3,909,049	100.0	4,060,599	100.0
1870 to 1879.....	10,960	0.4	16,900	0.4
1880 to 1889.....	901,087	23.1	926,911	22.8
1890 to 1899.....	760,891	19.0	817,388	20.0
1900 to 1904.....	432,203	11.1	453,287	11.1
1905 to 1909.....	870,892	22.3	911,796	22.0
1910 to 1914.....	622,095	15.9	630,760	15.4
1915 to 1919.....	287,898	7.4	291,958	7.1
Not reported.....	11,023	0.3	12,343	0.3

TABLE 13.—CAPITAL INVESTED IN OPERATING ENTERPRISES, CLASSIFIED BY DATE ENTERPRISE WAS ORGANIZED: 1920.

DATE OF ORGANIZATION.	CAPITAL.		
	To Dec. 31, 1919.		Additional required to complete.
	Amount.	Per cent of total.	
All operating enterprises.....	\$43,595,069	100.0	\$7,798,175
1870 to 1879.....	202,467	0.5	
1880 to 1889.....	9,860,927	22.6	757,900
1890 to 1899.....	5,315,978	12.2	324,500
1900 to 1904.....	4,201,068	9.6	315,722
1905 to 1909.....	13,817,447	31.7	5,142,762
1910 to 1914.....	6,569,847	15.1	1,192,742
1915 to 1919.....	3,207,754	7.4	1,025,449
Not reported.....	419,581	1.0	

TABLE 14.—DRAINS AND LEVEES (COMPLETED AND UNDER CONSTRUCTION) IN OPERATING ENTERPRISES, CLASSIFIED BY DATE ENTERPRISE WAS ORGANIZED: 1920.

DATE OF ORGANIZATION.	DITCHES.		TILE.		LEVEES.	
	Miles.	Per cent of total.	Miles.	Per cent of total.	Miles.	Per cent of total.
All drains and levees.....	4,820.2	100.0	3,634.2	100.0	747.3	100.0
1870 to 1879.....	13.9	0.3	1.5	(1)	11.0	1.5
1880 to 1889.....	1,316.0	27.3	446.2	12.3	152.0	20.3
1890 to 1899.....	1,001.8	20.8	548.8	15.1	54.2	7.3
1900 to 1904.....	470.0	9.8	435.8	12.0	125.3	16.8
1905 to 1909.....	1,052.2	21.8	1,199.7	33.0	208.5	27.9
1910 to 1914.....	702.2	14.6	590.5	16.5	118.0	15.5
1915 to 1919.....	243.9	5.1	359.0	9.9	67.8	9.1
Not reported.....	20.2	0.4	43.7	1.2	12.5	1.7

¹ Less than one-tenth of 1 per cent.

Crops.—The principal crop grown upon the drained land in drainage enterprises is corn, and wheat also is reported as an important crop on this land. Data were not secured to show the part of each enterprise planted to any crop, so the enterprises have been classified according to the principal crop, and the total area of improved land is shown thus classified, in County Table II. No data were secured at the general census of agriculture to separate the crops grown upon land drained artificially from those produced upon land drained naturally.

DRAINAGE—ILLINOIS.

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COUNTY TABLE I.—DRAINAGE ON FARMS: 1920.

		THE STATE.	Adams.	Alex- ander.	Bond.	Boone.	Brown.	Bureau.	Calhoun.	Carroll
1	Number of all farms in the state or county.....	237,181	3,844	731	1,948	1,325	1,352	3,203	1,119	1,769
2	Farms reporting land having drainage.....	99,246	207	58	62	558	193	2,255	21	177
3	Farms reporting land needing drainage.....	33,731	197	279	62	573	52	644	78	206
4	Farms in drainage and levee districts.....	14,586	81	41	.....	27	35	321	20	22
LAND AND FARM AREA.										
5	Approximate land area of the state or county.....acres..	35,867,520	538,880	144,040	248,320	187,520	190,080	563,840	163,840	289,920
6	All land in farms.....acres..	31,974,775	496,311	96,642	222,239	173,549	177,844	620,064	151,799	270,986
7	Improved land in farms.....acres..	27,294,533	373,183	62,371	195,493	143,537	123,179	458,676	83,544	224,774
8	Woodland in farms.....acres..	3,102,579	71,916	32,352	19,586	10,386	35,153	43,746	62,845	25,847
9	Other unimproved land in farms.....acres..	1,577,668	51,212	1,919	7,160	19,626	19,612	17,642	5,410	20,375
10	Farm land reported as provided with drainage.....acres..	11,247,637	13,540	4,868	1,914	28,685	12,549	234,991	1,194	5,339
11	Farm land reported as needing drainage.....acres..	1,228,739	10,580	14,282	1,910	17,344	2,273	20,991	4,316	5,466
12	Drainage only.....acres..	641,493	7,392	4,186	850	10,927	563	13,084	1,076	3,992
13	Drainage and clearing.....acres..	587,246	3,248	10,096	1,060	6,417	1,710	7,907	3,240	1,474
		Cass.	Cham- paign.	Chris- tian.	Clark.	Clay.	Clinton.	Coles.	Cook.	Craw- ford.
1	Number of all farms in the county.....	1,164	3,606	2,782	2,801	2,423	1,794	2,332	5,305	2,248
2	Farms reporting land having drainage.....	488	3,088	2,227	422	99	98	1,792	2,075	331
3	Farms reporting land needing drainage.....	157	94	341	401	279	191	392	1,145	413
4	Farms in drainage and levee districts.....	130	540	330	12	9	72	258	277	33
LAND AND FARM AREA.										
5	Approximate land area of the county.....acres..	237,440	667,520	448,000	315,520	295,680	309,120	336,000	597,120	289,520
6	All land in farms.....acres..	212,416	604,827	416,918	297,153	270,021	266,108	286,191	348,616	248,855
7	Improved land in farms.....acres..	167,678	591,086	393,915	242,257	240,023	219,746	258,958	303,470	220,259
8	Woodland in farms.....acres..	25,217	9,731	18,160	41,573	26,970	28,420	21,736	23,196	21,149
9	Other unimproved land in farms.....acres..	19,521	4,010	4,853	13,323	3,028	17,942	5,497	21,950	7,447
10	Farm land reported as provided with drainage.....acres..	63,544	413,233	287,765	22,340	3,447	7,277	204,282	124,653	23,191
11	Farm land reported as needing drainage.....acres..	8,342	5,450	14,457	7,056	6,990	4,616	10,109	28,689	10,053
12	Drainage only.....acres..	4,681	3,634	5,561	1,040	252	2,479	4,904	21,561	2,301
13	Drainage and clearing.....acres..	3,661	1,825	8,896	5,416	6,738	2,137	6,115	7,128	7,752
		Cumber- land.	De Kalb.	De Witt.	Douglas.	Du Page.	Edgar.	Edwards.	Effing- ham.	Fayette.
1	Number of all farms in the county.....	1,982	2,400	1,586	1,630	1,756	2,407	1,186	2,223	3,676
2	Farms reporting land having drainage.....	531	2,053	1,399	1,525	1,369	1,788	306	506	612
3	Farms reporting land needing drainage.....	173	613	189	257	838	393	435	178	353
4	Farms in drainage and levee districts.....	22	278	13	473	41	244	63	3	92
LAND AND FARM AREA.										
5	Approximate land area of the county.....acres..	225,920	408,320	265,600	266,880	220,800	397,440	152,320	327,040	466,560
6	All land in farms.....acres..	209,061	378,360	247,202	256,301	188,092	365,129	140,204	272,690	405,987
7	Improved land in farms.....acres..	178,571	353,691	224,733	245,223	155,663	334,057	126,250	226,414	339,295
8	Woodland in farms.....acres..	16,436	12,277	16,156	9,586	18,511	24,294	12,481	35,335	46,041
9	Other unimproved land in farms.....acres..	5,054	12,392	6,353	1,402	13,918	6,178	1,473	10,950	20,651
10	Farm land reported as provided with drainage.....acres..	14,501	240,170	165,088	229,111	92,500	244,846	15,852	31,284	29,366
11	Farm land reported as needing drainage.....acres..	2,303	18,186	7,088	8,575	25,111	11,725	9,196	3,250	10,927
12	Drainage only.....acres..	405	10,944	3,808	2,651	14,326	2,622	2,664	587	4,436
13	Drainage and clearing.....acres..	2,398	7,242	3,280	5,924	10,785	8,803	6,532	2,663	6,491
		Ford.	Fulton.	Gallatin.	Greene.	Grundy.	Hamil- ton.	Hancock.	Hender- son.	Henry.
1	Number of all farms in the county.....	1,655	3,532	1,387	2,143	1,506	2,633	3,433	1,204	3,161
2	Farms reporting land having drainage.....	1,439	1,443	582	797	1,345	148	903	574	1,976
3	Farms reporting land needing drainage.....	124	401	217	139	451	204	128	85	504
4	Farms in drainage and levee districts.....	507	118	181	36	52	4	20	50	416
LAND AND FARM AREA.										
5	Approximate land area of the county.....acres..	320,000	565,760	216,320	329,600	277,120	291,200	499,200	240,640	527,360
6	All land in farms.....acres..	295,972	509,953	162,157	320,929	250,993	237,087	462,214	214,206	485,150
7	Improved land in farms.....acres..	291,040	364,020	135,878	258,341	224,967	210,798	366,054	172,675	427,642
8	Woodland in farms.....acres..	3,971	79,918	24,018	43,027	11,880	22,242	58,987	30,424	24,157
9	Other unimproved land in farms.....acres..	961	60,015	2,261	19,561	14,146	4,047	37,173	11,107	33,351
10	Farm land reported as provided with drainage.....acres..	256,984	119,605	53,473	77,070	187,164	6,887	74,558	78,935	174,702
11	Farm land reported as needing drainage.....acres..	4,678	14,086	9,255	10,553	23,284	7,143	3,327	3,160	17,713
12	Drainage only.....acres..	3,041	5,975	5,031	5,759	13,081	1,983	2,480	1,832	13,283
13	Drainage and clearing.....acres..	1,637	8,111	4,224	4,794	5,253	5,160	847	1,334	4,430

DRAINAGE—ILLINOIS.

COUNTY TABLE I.—DRAINAGE ON FARMS: 1920—Continued.

		Iroquois.	Jackson.	Jasper.	Jersey.	Jo Daviess.	Johnson.	Kane.	Kankakee.	Kendall.
1	Number of all farms in the county.....	3,953	2,426	2,762	1,368	2,183	1,742	2,248	2,480	1,210
2	Farms reporting land having drainage.....	3,609	118	340	313	194	45	1,459	2,196	981
3	Farms reporting land needing drainage.....	758	276	354	87	250	221	1,003	480	294
4	Farms in drainage and levee districts.....	1,728	126	40	39	1	20	236	546	18
LAND AND FARM AREA.										
5	Approximate land area of the county.....acres..	717,440	376,320	325,120	234,880	398,720	222,720	337,280	427,520	207,360
6	All land in farms.....acres..	674,323	312,746	296,917	210,688	355,079	193,077	301,574	397,154	190,994
7	Improved land in farms.....acres..	641,090	220,755	208,247	152,002	236,439	138,527	254,388	366,635	173,932
8	Woodland in farms.....acres..	22,496	72,604	25,061	43,857	59,031	45,672	28,587	14,703	10,792
9	Other unimproved land in farms.....acres..	10,737	19,387	3,609	14,820	59,600	8,878	18,604	15,816	6,270
10	Farm land reported as provided with drainage.....acres..	555,813	14,194	20,877	23,387	5,816	1,895	100,126	304,499	130,061
11	Farm land reported as needing drainage.....acres..	64,296	15,676	10,693	3,319	8,644	7,930	32,162	27,806	8,977
12	Drainage only.....acres..	36,744	2,736	3,619	1,236	3,104	2,479	15,447	17,920	4,139
13	Drainage and clearing.....acres..	27,552	12,940	7,074	2,083	5,540	5,451	16,715	9,046	4,838
		Knox.	La Salle.	Lake.	Lawrence.	Lee.	Livingston.	Logan.	McDonough.	McHenry.
1	Number of all farms in the county.....	2,711	4,213	2,220	1,710	2,593	3,726	2,234	2,728	2,874
2	Farms reporting land having drainage.....	1,696	3,496	1,531	431	1,870	3,453	1,902	1,889	773
3	Farms reporting land needing drainage.....	409	897	1,402	444	496	576	324	183	1,399
4	Farms in drainage and levee districts.....	3	193	184	226	302	258	180	0	143
LAND AND FARM AREA.										
5	Approximate land area of the county.....acres..	455,040	733,440	291,200	229,120	474,880	667,520	394,880	376,320	396,800
6	All land in farms.....acres..	414,434	668,500	234,800	204,079	432,726	636,957	375,253	355,818	398,765
7	Improved land in farms.....acres..	329,408	603,057	160,928	180,508	392,855	616,725	354,996	289,199	294,352
8	Woodland in farms.....acres..	39,353	45,197	33,475	19,186	16,639	16,200	15,463	37,452	32,082
9	Other unimproved land in farms.....acres..	45,673	20,306	34,397	4,955	23,232	5,026	4,796	28,607	71,431
10	Farm land reported as provided with drainage.....acres..	160,506	472,542	66,346	28,430	240,039	559,013	282,513	194,563	34,078
11	Farm land reported as needing drainage.....acres..	14,700	33,500	47,610	17,847	24,376	21,522	16,724	4,460	32,008
12	Drainage only.....acres..	9,622	25,957	22,206	9,007	18,879	12,872	10,507	1,633	31,620
13	Drainage and clearing.....acres..	5,034	7,543	25,404	8,840	5,496	8,650	6,217	2,827	21,283
		McLean.	Macon.	Macoupin.	Madison.	Marion.	Marshall.	Mason.	Massac.	Monard.
1	Number of all farms in the county.....	4,309	2,528	3,771	3,454	3,097	1,231	1,558	1,192	1,033
2	Farms reporting land having drainage.....	3,620	2,120	840	401	66	917	512	39	988
3	Farms reporting land needing drainage.....	476	247	150	270	388	244	222	265	175
4	Farms in drainage and levee districts.....	320	144	28	97	1	10	472	60	28
LAND AND FARM AREA.										
5	Approximate land area of the county.....acres..	762,240	374,400	550,400	471,680	364,160	253,440	355,200	153,600	202,880
6	All land in farms.....acres..	714,400	350,154	509,046	399,140	330,720	225,635	311,412	121,135	185,514
7	Improved land in farms.....acres..	688,847	333,126	397,029	343,720	280,947	185,195	269,064	94,147	165,937
8	Woodland in farms.....acres..	23,840	12,978	69,361	36,321	38,085	29,068	26,264	23,615	13,766
9	Other unimproved land in farms.....acres..	7,213	4,050	42,656	19,099	11,688	11,372	16,084	3,373	6,821
10	Farm land reported as provided with drainage.....acres..	536,887	285,995	64,322	24,770	1,765	108,722	70,927	1,148	80,335
11	Farm land reported as needing drainage.....acres..	17,406	7,645	4,050	7,776	9,090	10,404	20,025	10,667	4,676
12	Drainage only.....acres..	7,616	2,658	1,851	4,785	705	6,780	12,623	4,033	1,483
13	Drainage and clearing.....acres..	9,790	4,987	2,199	2,991	8,385	3,624	7,402	6,634	3,193
		Mercer.	Monroe.	Montgomery.	Morgan.	Moultrie.	Ogle.	Peoria.	Piatt.	Pike.
1	Number of all farms in the county.....	2,022	1,498	3,037	2,420	1,501	2,784	2,499	1,386	3,381
2	Farms reporting land having drainage.....	1,161	99	646	1,457	1,335	660	1,171	1,310	515
3	Farms reporting land needing drainage.....	449	82	140	189	228	290	296	104	350
4	Farms in drainage and levee districts.....	50	60	171	12	29	21	43	391	224
LAND AND FARM AREA.										
5	Approximate land area of the county.....acres..	345,600	248,960	440,960	368,640	216,320	433,840	407,040	288,640	503,040
6	All land in farms.....acres..	324,787	215,592	408,165	337,657	206,781	450,722	348,711	282,071	478,116
7	Improved land in farms.....acres..	282,227	164,080	357,691	297,178	190,631	382,446	283,781	252,929	378,036
8	Woodland in farms.....acres..	31,156	43,265	44,323	23,293	12,978	32,053	48,925	7,534	63,638
9	Other unimproved land in farms.....acres..	31,404	8,247	6,151	17,186	3,772	36,223	36,025	1,608	36,442
10	Farm land reported as provided with drainage.....acres..	87,401	5,627	54,535	153,123	187,194	51,452	121,737	243,716	32,335
11	Farm land reported as needing drainage.....acres..	11,737	785	6,502	7,997	6,850	10,089	10,902	3,334	10,914
12	Drainage only.....acres..	5,745	437	4,540	5,675	2,022	4,963	5,027	1,352	5,693
13	Drainage and clearing.....acres..	5,992	348	1,962	2,322	4,837	5,126	5,875	1,982	5,251

DRAINAGE—ILLINOIS.

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COUNTY TABLE I.—DRAINAGE ON FARMS: 1920—Continued.

		Pope.	Fulaski.	Putnam.	Randolph.	Richland.	Rock Island.	St. Clair.	Saline.	Sangamon.
1	Number of all farms in the county.....	1,587	1,015	583	2,324	1,930	2,045	3,112	2,105	3,425
2	Farms reporting land having drainage.....	51	191	328	66	128	533	380	453	2,840
3	Farms reporting land needing drainage.....	34	263	90	200	200	221	501	246	521
4	Farms in drainage and levee districts.....	9	123	18	56	44	42	81	346	19
LAND AND FARM AREA.										
5	Approximate land area of the county.....acres..	246,400	121,600	110,720	375,680	228,480	271,360	424,320	255,360	560,640
6	All land in farms.....acres..	192,894	99,787	91,262	323,081	205,939	243,773	356,423	204,193	496,782
7	Improved land in farms.....acres..	130,447	78,806	67,623	247,433	186,161	178,591	304,430	177,288	461,346
8	Woodland in farms.....acres..	52,698	13,588	17,232	58,542	16,961	85,807	39,137	22,420	24,363
9	Other unimproved land in farms.....acres..	9,749	2,893	6,407	17,106	2,817	29,875	12,850	4,485	11,073
10	Farm land reported as provided with drainage.....acres..	977	11,682	35,991	2,448	3,185	29,432	12,144	33,774	314,126
11	Farm land reported as needing drainage.....acres..	749	11,886	3,805	6,045	6,576	6,750	7,593	7,887	26,646
12	Drainage only.....acres..	378	1,789	2,418	876	999	3,731	2,050	3,603	19,205
13	Drainage and clearing.....acres..	371	10,097	1,367	5,169	4,577	3,019	5,543	4,284	7,441
		Schuyler.	Scott.	Shelby.	Stark.	Stephenson.	Tazewell.	Union.	Vermillion.	Wabash.
1	Number of all farms in the county.....	1,778	1,089	3,860	1,077	2,794	2,536	2,006	3,587	1,058
2	Farms reporting land having drainage.....	554	298	1,649	751	466	1,448	160	2,959	466
3	Farms reporting land needing drainage.....	256	108	210	115	416	344	127	716	214
4	Farms in drainage and levee districts.....	104	114	83	1	27	184	140	695	185
LAND AND FARM AREA.										
5	Approximate land area of the county.....acres..	276,480	159,360	494,080	185,600	357,760	414,080	257,920	589,440	140,800
6	All land in farms.....acres..	250,633	150,543	452,369	178,399	337,442	383,512	217,765	519,338	128,184
7	Improved land in farms.....acres..	177,569	123,690	405,582	157,447	291,795	333,857	150,018	479,152	115,378
8	Woodland in farms.....acres..	60,622	16,023	34,978	11,399	20,544	29,676	58,223	31,209	10,896
9	Other unimproved land in farms.....acres..	18,442	10,830	11,809	9,563	25,103	19,679	9,524	8,917	1,910
10	Farm land reported as provided with drainage.....acres..	53,332	31,153	161,443	79,328	16,354	196,825	14,341	417,008	32,570
11	Farm land reported as needing drainage.....acres..	6,260	4,044	6,821	2,895	7,951	10,983	12,824	28,832	4,642
12	Drainage only.....acres..	1,603	2,014	4,289	1,672	4,929	2,794	3,363	19,595	1,369
13	Drainage and clearing.....acres..	4,667	2,030	2,532	1,323	3,032	8,189	9,461	9,237	3,273
		Warren.	Washington.	Wayne.	White.	Whiteside.	Will.	Winnebago.	Woodford.	All other counties. ¹
1	Number of all farms in the county.....	1,899	2,357	3,709	2,419	2,789	3,385	2,185	1,903	11,201
2	Farms reporting land having drainage.....	1,561	18	261	865	379	2,719	299	1,421	28
3	Farms reporting land needing drainage.....	268	48	330	466	336	972	321	221	306
4	Farms in drainage and levee districts.....	2	1	113	263	370	209	14	4	3
LAND AND FARM AREA.										
5	Approximate land area of the county.....acres..	349,440	359,040	469,120	324,480	434,560	540,160	338,560	337,920	1,865,120
6	All land in farms.....acres..	318,984	330,136	390,343	283,849	415,559	488,230	292,325	292,978	1,070,915
7	Improved land in farms.....acres..	270,602	268,233	349,079	260,061	369,629	431,039	248,081	252,716	891,981
8	Woodland in farms.....acres..	30,826	48,060	38,026	17,390	17,829	26,608	28,973	26,391	146,405
9	Other unimproved land in farms.....acres..	17,556	13,843	3,238	6,398	28,201	31,583	15,271	13,871	32,529
10	Farm land reported as provided with drainage.....acres..	195,371	568	18,408	75,905	73,498	305,211	11,693	196,052	851
11	Farm land reported as needing drainage.....acres..	9,720	1,398	29,817	14,711	11,598	34,578	10,215	6,383	11,018
12	Drainage only.....acres..	6,771	244	12,561	7,954	8,659	22,194	5,127	1,981	2,469
13	Drainage and clearing.....acres..	2,949	1,154	17,256	6,757	2,939	12,384	5,088	4,402	8,549

¹ No drainage on farms reported in Jefferson and Perry Counties.

COUNTY TABLE II.—OPERATING DRAINAGE ENTERPRISES: 1920.

		THE STATE.	Adams.	Alexander.	Boone.	Brown.	Bureau.	Calhoun.	Carroll.	Cass.	
LAND AREA.											
1	Approximate land area of the state or county.....	acres..	35,867,520	538,880	144,640	187,520	190,080	563,840	163,840	289,920	237,440
2	All land in operating drainage enterprises.....	acres..	3,909,049	56,843	18,875	4,052	7,890	64,788	33,000	4,690	35,109
3	Improved land.....	acres..	3,532,316	39,831	13,319	3,955	6,122	63,360	29,700	3,646	26,022
4	Per cent of all improved land in farms.....	.....	12.9	10.7	21.4	2.8	5.0	13.8	35.6	1.6	15.5
5	Timber and cut-over land.....	acres..	184,573	15,269	3,886	.....	965	693	1,650	170	1,292
6	Other unimproved land.....	acres..	192,160	1,743	1,670	97	803	735	1,650	874	7,795
7	Swampy or subject to overflow, in enterprises.....	acres..	228,337	16,028	2,330	194	1,070	2,046	3,300	469	7,219
8	Suffering a loss of crops from defective drainage.....	acres..	220,065	3,456	2,330	194	1,070	2,046	3,300	469	939
9	Assessed acreage.....	acres..	4,090,599	56,853	18,885	4,052	7,890	64,788	33,000	4,690	35,109
10	Excess over all land in operating enterprises.....	acres..	181,650	10	10	.....	.....	.....	.....	.....	.....
DRAINAGE WORKS.											
Open ditches:											
11	Completed.....	miles..	4,754.5	71.5	32.6	11.0	10.0	105.4	18.0	10.0	52.6
12	Additional under construction.....	miles..	65.7	6.5	.....	.....	.....	4.0	.....	.....	1.0
13	Maximum completed in any enterprise.....	miles..	80.0	47.0	12.0	8.0	9.6	15.0	18.0	6.0	14.0
14	Maximum width at bottom of ditch ¹	feet..	100	80	50	25	70	80	80	30	80
15	Maximum of average depths of outlet ditches ¹	feet..	42.0	30.0	10.0	10.0	12.0	12.0	12.0	12.0	13.0
16	Mean depth of branch ditches ¹	feet..	4.8	7.0	7.2	6.0	4.9	5.0	8.0	4.3	5.6
Tile drains:											
17	Completed.....	miles..	3,507.1	2.5	.....	5.0	33.3	16.5	.....	.....	2.1
18	Additional under construction.....	miles..	127.1	.....	.....	.....	9.6	2.0	.....	.....	.....
19	Maximum completed in any enterprise.....	miles..	200.0	2.5	.....	3.0	23.3	2.7	.....	.....	1.0
20	Maximum size of tile ¹	inches..	48	16	.....	22	24	24	.....	.....	18
Accessory levees and dikes:											
21	Completed.....	miles..	650.2	22.6	19.1	.....	14.3	.....	12.9	.....	9.4
22	Additional under construction.....	miles..	97.1	23.4	.....	.....	.....	.....	2.1	.....	.....
Pumping plants:											
23	Engine capacity.....	horsepower..	18,225	1,450	50	.....	225	.....	150	.....	475
24	Pump capacity.....	gallons per minute..	2,813,006	141,000	5,500	.....	36,000	.....	31,000	.....	136,000
25	Area served by pumps.....	acres..	291,810	38,470	200	.....	7,750	.....	2,800	.....	18,480
26	Area drained by open ditches only ¹	acres..	1,508,695	14,667	.....	1,940	.....	27,185	33,000	.....	22,476
27	Length of these ditches.....	miles..	2,406.7	8.0	.....	8.0	.....	38.8	18.0	.....	30.8
28	Average length per acre.....	feet..	8.4	2.9	.....	21.8	.....	7.5	2.9	.....	7.0
29	Area having open ditches and levees ¹	acres..	452,688	21,976	18,875	.....	1,900	.....	4,690	.....	3,640
30	Length of these ditches.....	miles..	558.7	23.0	32.6	.....	5.0	.....	10.0	.....	7.2
31	Average length per acre.....	feet..	6.5	6.6	9.1	.....	13.9	.....	11.3	.....	10.4
32	Length of the accessory levees.....	miles..	469.1	23.0	19.1	.....	5.0	.....	15.0	.....	5.9
33	Area drained by tile only ¹	acres..	392,738	.....	712	.....	815	.....	.....	.....	.....
34	Length of these tile.....	miles..	1,206.9	.....	3.0	.....	2.7	.....	.....	.....	.....
35	Average length per acre.....	feet..	16.2	.....	22.2	.....	17.5	.....	.....	.....	.....
36	Area having tile drains and levees ¹	acres..	10,109	.....	.....	.....	.....	.....	.....	.....	.....
37	Length of these tile.....	miles..	2.0	.....	.....	.....	.....	.....	.....	.....	.....
38	Average length per acre.....	feet..	1.0	.....	.....	.....	.....	.....	.....	.....	.....
39	Length of the accessory levees.....	miles..	16.0	.....	.....	.....	.....	.....	.....	.....	.....
40	Area drained by open ditches and tile ¹	acres..	1,327,966	.....	1,400	.....	36,788	.....	.....	.....	3,000
41	Length of these drains.....	miles..	3,012.4	.....	6.0	.....	86.4	.....	.....	.....	6.5
42	Average length per acre.....	feet..	12.0	.....	18.9	.....	12.4	.....	.....	.....	11.4
43	Area having open ditches, tile drains, and levees ¹	acres..	216,923	20,200	.....	5,990	.....	.....	.....	.....	5,993
44	Length of these drains.....	miles..	1,266.7	49.5	.....	53.9	.....	.....	.....	.....	12.1
45	Average length per acre.....	feet..	30.8	12.9	.....	47.5	.....	.....	.....	.....	10.7
46	Length of the accessory levees.....	miles..	262.2	23.0	.....	9.3	.....	.....	.....	.....	3.5
DEVELOPMENT OF LAND.											
47	Improved land in operating enterprises, 1920.....	acres..	3,532,316	39,831	13,319	3,955	6,122	63,360	29,700	3,646	26,022
48	Improved land prior to drainage.....	acres..	2,062,521	12,433	10,193	528	3,052	25,586	1,650	985	11,812
49	Increases since drainage.....	acres..	1,469,795	27,398	3,126	3,427	3,070	37,774	28,050	2,661	14,210
50	Per cent of increase ².....	.....	71.3	220.4	30.7	649.1	100.6	147.6	.....	270.2	120.3
51	Per cent increase is of all improved land in farms, 1920.....	.....	5.4	7.3	5.0	2.4	2.5	8.2	33.6	1.2	8.5
52	Timber and cut-over land, 1920.....	acres..	184,573	15,269	3,886	.....	965	693	1,650	170	1,292
53	Timber and cut-over land prior to drainage.....	acres..	479,498	29,580	5,228	.....	2,036	948	11,550	170	4,082
54	Decreases since drainage.....	acres..	294,925	14,311	1,342	.....	1,071	255	9,900	.....	2,790
55	Per cent of decrease.....	.....	61.5	48.4	25.7	.....	52.6	26.9	85.7	.....	68.3
56	Other unimproved land, 1920.....	acres..	192,160	1,743	1,670	97	803	735	1,650	874	7,795
57	Other unimproved land prior to drainage.....	acres..	1,367,030	14,830	3,454	3,524	2,802	38,254	19,800	3,535	19,215
58	Decreases since drainage.....	acres..	1,174,870	13,087	1,784	3,427	1,999	37,619	18,150	2,661	14,210
59	Per cent of decrease.....	.....	85.9	88.2	51.7	97.2	71.3	98.1	91.7	75.3	59.4
60	Swampy or subject to overflow, 1920.....	acres..	228,337	16,028	2,330	194	1,070	2,046	3,300	469	7,219
61	Swampy or subject to overflow prior to drainage.....	acres..	1,864,138	23,740	9,913	3,275	7,378	30,307	10,500	3,535	24,591
62	Decreases since drainage.....	acres..	1,635,801	7,712	7,583	3,081	6,308	28,261	13,200	3,069	17,372
63	Per cent of decrease.....	.....	87.8	32.5	76.5	94.1	85.5	93.2	80.6	80.7	70.6
CAPITAL INVESTED AND COST PER ACRE.											
64	Total capital invested in and required for completion of operating enterprises.....	dollars..	51,393,244	2,133,995	371,484	40,500	301,150	893,120	733,488	133,000	850,068
65	Capital invested in these enterprises to Dec. 31, 1919.....	dollars..	43,595,069	1,430,995	371,484	40,500	284,250	787,120	733,488	114,000	845,068
66	Additional capital required to complete these enterprises.....	dollars..	7,798,175	697,000	.....	.....	16,900	96,000	.....	19,000	5,000
67	Average cost per acre when completed.....	dollars..	13.15	37.54	19.68	10.00	38.17	13.63	22.23	28.36	24.21
68	Enterprises constructing open ditches only.....	dollars..	11,874,658	325,995	.....	20,000	.....	468,194	733,488	.....	643,036
69	Average cost per acre when completed.....	dollars..	7.37	22.23	.....	10.31	.....	17.22	22.23	.....	28.61
70	Enterprises constructing open ditches and levees.....	dollars..	19,459,251	1,141,000	371,484	.....	130,000	.....	.....	133,000	86,059
71	Average cost per acre when completed.....	dollars..	43.60	51.92	19.68	.....	68.42	.....	.....	28.36	23.64
72	Enterprises constructing tile drains only.....	dollars..	3,181,397	.....	.....	5,500	.....	10,758	.....	.....	.....
73	Average cost per acre when completed.....	dollars..	8.10	.....	.....	7.72	.....	13.20	.....	.....	.....
74	Enterprises constructing tile drains and levees.....	dollars..	160,000	.....	.....	.....	.....	.....	.....	.....	.....
75	Average cost per acre when completed.....	dollars..	15.83	.....	.....	.....	.....	.....	.....	.....	.....
76	Enterprises constructing open ditches and tile drains.....	dollars..	10,641,870	.....	.....	15,000	.....	404,168	.....	.....	35,249
77	Average cost per acre when completed.....	dollars..	8.01	.....	.....	10.71	.....	10.99	.....	.....	11.75
78	Enterprises constructing open ditches, tile drains, and levees.....	dollars..	6,076,068	667,000	.....	.....	171,150	.....	.....	.....	85,724
79	Average cost per acre when completed.....	dollars..	28.01	33.02	.....	.....	28.57	.....	.....	.....	14.80
CROPS.											
80	Improved land in enterprises reporting—										
81	Corn as principal crop on drained land.....	acres..	3,404,489	39,831	13,319	3,955	6,122	63,360	29,700	3,646	18,268
82	Wheat as principal crop on drained land.....	acres..	88,520	.....	.....	.....	.....	.....	.....	.....	7,754
83	Potatoes as principal crop on drained land.....	acres..	28,723	.....	.....	.....	.....	.....	.....	.....	.....
84	Vegetables as principal crop on drained land.....	acres..	5,380	.....	.....	.....	.....	.....	.....	.....	.....
85	Not reporting principal crop on drained land.....	acres..	5,204	.....	.....	.....	.....	.....	.....	.....	.....

¹ When works under construction have been completed.² Per cent not shown when more than 1,000.

DRAINAGE—ILLINOIS.

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COUNTY TABLE II.—OPERATING DRAINAGE ENTERPRISES: 1920—Continued.

		Cham- paign.	Chris- tian.	Clark.	Clay.	Clinton.	Coles.	Cook.	Craw- ford.	Cumber- land.	De Kalb.	
LAND AREA.												
1	Approximate land area of the county.....	acres..	667,520	448,000	315,520	295,680	309,120	336,000	597,120	289,920	225,920	408,320
2	All land in operating drainage enterprises.....	acres..	331,646	110,129	5,344	6,080	8,303	65,595	37,532	17,589	7,207	46,900
3	Improved land.....	acres..	327,787	108,690	4,810	5,350	7,955	65,132	35,373	15,604	6,494	38,100
4	Per cent of all improved land in farms.....	.....	55.5	27.6	2.0	2.2	3.6	25.2	11.7	7.1	3.6	10.8
5	Timber and cut-over land.....	acres..	1,899	174	730	348	450	531	1,985	43	80	8,800
6	Other unimproved land.....	acres..	1,960	1,439	360	13	1,628	13	1,628	1,985	43	8,800
7	Swampy or subject to overflow, in enterprises.....	acres..	2,527	2,503	736	3,648	1,060	695	2,340	6,055	10	1,222
8	Suffering a loss of crops from defective drainage.....	acres..	1,678	2,503	736	3,648	1,060	695	2,340	6,055	10	1,222
9	Assessed acreage.....	acres..	441,367	110,129	5,344	6,080	8,303	66,145	37,532	17,589	7,207	46,900
10	Excess over all land in operating enterprises.....	acres..	109,721	.....	.....	.....	550	.....	.....	.....	.....	.....
DRAINAGE WORKS.												
11	Open ditches:											
12	Completed.....	miles..	408.7	112.8	6.3	8.1	29.5	24.9	65.4	23.8	11.7	72.9
13	Additional under construction.....	miles..	6.0	.....	.....	.....	.....	.....	.....	.....	.....	.....
14	Maximum completed in any enterprise.....	miles..	27.5	16.0	2.5	8.1	16.0	4.5	9.0	9.5	3.0	10.0
15	Maximum width at bottom of ditch ¹	feet..	50	100	16	16	16	12	20	30	10	40
16	Maximum of average depths of outlet ditches ¹	feet..	12.0	12.0	9.0	12.0	6.0	10.0	11.0	15.0	6.0	8.0
17	Mean depth of branch ditches ¹	feet..	6.0	3.9	4.4	.....	3.0	4.0	4.7	7.0	4.3	6.0
18	Tile drains:											
19	Completed.....	miles..	386.1	243.8	7.4	.....	.....	36.5	44.4	13.5	2.7	45.8
20	Additional under construction.....	miles..	11.1	.....	.....	.....	.....	2.1	.....	.....	.....	.....
21	Maximum completed in any enterprise.....	miles..	41.0	9.8	7.1	.....	.....	6.0	9.0	10.1	1.7	6.0
22	Maximum size of tile ¹	inches..	32	30	12	.....	.....	36	32	24	16	30
23	Accessory levees and dikes:											
24	Completed.....	miles..	.....	3.5	0.8	.....	11.5	.....	.....	.....	.....	.....
25	Additional under construction.....	miles..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
26	Pumping plants:											
27	Engine capacity.....	horsepower..	.....	.....	.....	.....	50	.....	.....	.....	.....	.....
28	Pump capacity.....	gallons per minute..	.....	.....	.....	.....	10,000	.....	.....	.....	.....	.....
29	Area served by pumps.....	acres..	.....	.....	.....	.....	600	.....	.....	.....	.....	.....
30	Area drained by open ditches only ¹	acres..	130,190	11,438	1,820	6,080	.....	46,056	13,282	6,850	3,236	35,833
31	Length of these ditches.....	miles..	233.8	32.0	2.1	8.1	.....	12.6	24.9	10.8	5.1	54.8
32	Average length per acre.....	feet..	9.5	14.8	6.1	7.0	.....	1.4	9.9	8.3	8.3	8.1
33	Area having open ditches and levees ¹	acres..	.....	.....	.....	8,803	.....	.....	.....	.....	.....	.....
34	Length of these ditches.....	miles..	.....	.....	.....	29.5	.....	.....	.....	.....	.....	.....
35	Average length per acre.....	feet..	.....	.....	.....	18.8	.....	.....	.....	.....	.....	.....
36	Length of the accessory levees.....	miles..	.....	.....	.....	11.6	.....	.....	.....	.....	.....	.....
37	Area drained by tile only ¹	acres..	30,167	42,225	.....	.....	.....	2,928	3,645	.....	.....	3,300
38	Length of these tile.....	miles..	212.4	139.4	.....	.....	.....	11.6	30.8	.....	.....	27.0
39	Average length per acre.....	feet..	37.2	17.4	.....	.....	.....	20.9	44.6	.....	.....	43.2
40	Area having tile drains and levees ¹	acres..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
41	Length of these tile.....	miles..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
42	Average length per acre.....	feet..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
43	Length of the accessory levees.....	miles..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
44	Area drained by open ditches and tile ¹	acres..	171,269	55,966	1,624	.....	.....	10,611	20,605	10,739	3,971	7,767
45	Length of these drains.....	miles..	365.7	181.5	2.0	.....	.....	39.3	54.1	26.5	9.3	36.9
46	Average length per acre.....	feet..	11.3	17.1	6.5	.....	.....	12.5	13.9	13.0	12.4	25.1
47	Area having open ditches, tile drains, and levees ¹	acres..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
48	Length of these drains.....	miles..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
49	Average length per acre.....	feet..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
50	Length of the accessory levees.....	miles..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
DEVELOPMENT OF LAND.												
51	Improved land in operating enterprises, 1920.....	acres..	327,787	108,690	4,810	5,350	7,955	65,132	35,373	15,604	6,494	38,100
52	Improved land prior to drainage.....	acres..	250,271	66,603	2,341	4,864	3,947	64,045	18,884	10,247	5,489	22,099
53	Increase since drainage.....	acres..	77,516	42,087	2,469	4,486	4,008	1,087	16,489	5,357	1,005	16,001
54	Per cent of increase.....	.....	31.0	63.2	105.5	10.0	101.5	1.7	37.3	32.3	15.3	72.4
55	Per cent increase is of all improved land in farms, 1920.....	.....	13.1	10.7	1.0	0.2	1.8	0.4	5.4	2.4	0.6	4.5
56	Timber and cut-over land, 1920.....	acres..	1,899	174	730	348	450	531	1,985	43	80	8,800
57	Timber and cut-over land prior to drainage.....	acres..	11,626	407	1,216	1,150	1,420	705	5,906	133	.....	.....
58	Decrease since drainage.....	acres..	9,727	233	486	802	970	174	3,921	90	.....	.....
59	Per cent of decrease.....	.....	83.7	57.2	40.0	69.7	68.3	24.7	66.4	67.7	.....	.....
60	Other unimproved land, 1920.....	acres..	1,960	1,439	360	.....	.....	13	1,628	.....	670	8,800
61	Other unimproved land prior to drainage.....	acres..	69,749	43,526	2,596	.....	.....	130	17,943	1,436	1,585	24,801
62	Decrease since drainage.....	acres..	67,789	42,087	2,236	.....	.....	117	16,315	1,436	915	16,001
63	Per cent of decrease.....	.....	97.2	96.7	86.1	.....	.....	90.0	90.0	100.0	57.7	64.5
64	Swampy or subject to overflow, 1920.....	acres..	2,527	2,503	736	3,648	1,060	695	2,340	6,055	10	1,222
65	Swampy or subject to overflow prior to drainage.....	acres..	111,804	44,906	4,125	4,864	5,239	26,495	16,223	9,637	3,114	20,496
66	Decrease since drainage.....	acres..	109,277	42,403	3,389	1,216	4,179	25,800	13,883	3,582	3,104	19,274
67	Per cent of decrease.....	.....	97.7	94.4	82.2	25.0	79.8	67.4	85.6	37.2	99.7	94.0
CAPITAL INVESTED AND COST PER ACRE.												
68	Total capital invested in and required for completion of operating enter- prises.....	dollars..	2,151,932	601,798	57,562	38,677	158,894	371,410	366,169	139,909	45,161	385,667
69	Capital invested in these enterprises to Dec. 31, 1919.....	dollars..	2,057,536	601,798	57,562	38,677	158,894	332,512	366,169	139,909	45,161	385,667
70	Additional capital required to complete these enterprises.....	dollars..	94,396	.....	.....	.....	.....	38,898	.....	.....	.....	.....
71	Average cost per acre when completed.....	dollars..	6.49	5.46	10.77	6.36	19.14	5.66	9.76	7.95	6.27	8.22
72	Enterprises constructing open ditches only.....	dollars..	634,785	46,200	10,180	38,677	.....	102,712	115,500	41,000	19,527	236,667
73	Average cost per acre when completed.....	dollars..	4.38	4.04	5.59	8.36	.....	2.23	8.70	5.09	6.03	6.60
74	Enterprises constructing open ditches and levees.....	dollars..	.....	.....	.....	.....	158,894	.....	.....	.....	.....	.....
75	Average cost per acre when completed.....	dollars..	.....	.....	.....	.....	19.14	.....	.....	.....	.....	.....
76	Enterprises constructing tile drains only.....	dollars..	481,472	241,880	.....	.....	.....	48,908	63,920	.....	.....	56,000
77	Average cost per acre when completed.....	dollars..	15.96	5.73	.....	.....	.....	16.70	17.54	.....	.....	16.97
78	Enterprises constructing tile drains and levees.....	dollars..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
79	Average cost per acre when completed.....	dollars..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
80	Enterprises constructing open ditches and tile drains.....	dollars..	1,035,675	293,708	7,382	.....	.....	219,789	186,749	98,909	25,634	93,000
81	Average cost per acre when completed.....	dollars..	6.05	5.25	4.55	.....	.....	13.23	9.06	9.21	6.40	11.97
82	Enterprises constructing open ditches, tile drains, and levees.....	dollars..	.....	20,000	40,000	.....	.....	.....	.....	.....	.....	.....
83	Average cost per acre when completed.....	dollars..	.....	40.00	21.05	.....	.....	.....	.....	.....	.....	.....
CROPS.												
84	Improved land in enterprises reporting—											
85	Corn as principal crop on drained land.....	acres..	284,212	108,690	4,810	.....	4,863	65,132	32,993	9,192	6,494	38,100
86	Wheat as principal crop on drained land.....	acres..	14,852	.....	.....	5,350	3,092	.....	.....	6,412	.....	.....
87	Potatoes as principal crop on drained land.....	acres..	28,723	.....	.....	.....	.....	.....	.....	.....	.....	.....
88	Vegetables as principal crop on drained land.....	acres..	.....	.....	.....	.....	.....	.....	2,380	.....	.....	.....
89	Not reporting principal crop on drained land.....	acres..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

¹When works under construction have been completed.

DRAINAGE—ILLINOIS.

COUNTY TABLE II.—OPERATING DRAINAGE ENTERPRISES: 1920—Continued.

		De Witt.	Douglas.	Du Page.	Edgar.	Edwards.	Fayette.	Ford.	Fulton.	Gallatin.	Greene.
LAND AREA.											
1	Approximate land area of the county.....	265,000	206,880	220,800	397,440	152,320	466,560	320,000	565,760	216,320	320,600
2	All land in operating drainage enterprises.....	36,200	155,823	15,019	63,442	9,011	40,562	136,175	27,194	22,176	36,548
3	Improved land.....	36,184	155,525	13,915	60,631	7,752	28,543	113,953	17,354	19,947	28,699
4	Per cent of all improved land in farms.....	16.1	63.4	8.9	18.1	6.1	8.4	39.2	4.8	14.7	11.1
5	Timber and cut-over land.....	16			525	1,259	11,885	722	3,290	2,229	2,409
6	Other unimproved land.....		298	1,104	2,386		134	21,500	6,550		5,440
7	Swampy or subject to overflow, in enterprises.....	466	236	1,157		7,752	7,363	2,111	8,444	1,715	525
8	Suffering a loss of crops from defective drainage.....	466	236	1,150		7,752	7,363	2,111	8,444	1,715	525
9	Assessed acreage.....	36,200	164,823	15,019	63,442	9,011	40,562	137,095	27,194	22,176	36,548
10	Excess over all land in operating enterprises.....		9,000					920			
DRAINAGE WORKS.											
11	Open ditches:										
12	Completed.....	10.4	127.1	13.2	44.9	18.9	50.9	117.7	42.7	32.5	54.5
13	Additional under construction.....								3.8		
14	Maximum completed in any enterprise.....	5.5	12.5	6.0	7.6	12.6	11.0	24.0	7.0	14.0	19.0
15	Maximum width at bottom of ditch.....	20	24	20	6	35	30	50	40	25	60
16	Maximum of average depths of outlet ditches.....	8.0	10.0	7.0	9.0	12.0	10.0	11.0	12.0	20.0	12.0
17	Mean depth of branch ditches.....		6.3		3.7	5.8	7.1	5.6	7.1	5.9	7.3
18	Tile drains:										
19	Completed.....	44.9	197.4	28.6	92.5		22.3	64.1	108.8	2.1	335.0
20	Additional under construction.....			4.9					1.5		
21	Maximum completed in any enterprise.....	9.5	9.2	5.6	11.2		10.0	13.0	75.0	2.1	200.0
22	Maximum size of tile.....	40	30	30	30		24	48	32	14	18
23	Accessory levees and dikes:										
24	Completed.....						19.0	5.0	35.3		57.4
25	Additional under construction.....								17.8		1.2
26	Pumping plants:										
27	Engine capacity.....								1,175		3,140
28	Pump capacity.....								204,600		424,000
29	Area served by pumps.....								22,885		35,723
30	Area drained by open ditches only.....	1,600	29,160	3,300	6,139	9,011	9,623	26,405		21,359	1,260
31	Length of these ditches.....	2.6	60.2	11.0	9.3	18.9	14.3	36.7		32.5	1.5
32	Average length per acre.....	8.6	10.9	17.6	8.0	11.1	7.8	7.3		8.0	6.3
33	Area having open ditches and levees.....						15,000	9,900	7,500		20,325
34	Length of these ditches.....						11.0	9.5	13.5		20.0
35	Average length per acre.....						3.9	5.1	9.5		6.8
36	Length of the accessory levees.....						15.0	5.0	16.2		35.0
37	Area drained by tile only.....	23,093	44,563	8,003	12,411			7,330			817
38	Length of these tile.....	36.6	104.8	25.9	29.0			13.5			2.1
39	Average length per acre.....	8.4	12.4	15.9	12.3			0.7			13.6
40	Area having tile drains and levees.....										
41	Length of these tile.....										
42	Average length per acre.....										
43	Area drained by open ditches and tile drains.....	11,507	82,100	3,116	44,892		11,200	92,540	3,600		
44	Length of these drains.....	16.1	159.5	9.8	99.1		32.9	122.1	3.9		
45	Average length per acre.....	7.4	10.3	16.6	11.7		15.5	7.0	5.7		
46	Area having open ditches, tile drains, and levees.....						4,739		16,094		14,953
47	Length of these drains.....						15.0		139.4		362.0
48	Average length per acre.....						16.7		45.7		127.7
49	Length of the accessory levees.....						4.0		36.9		23.6
DEVELOPMENT OF LAND.											
50	Improved land in operating enterprises, 1920.....	36,184	155,525	13,915	60,631	7,752	28,543	113,953	17,354	19,947	28,699
51	Improved land prior to drainage.....	34,375	116,393	7,139	50,324	3,602	11,868	86,403	4,036	13,234	9,472
52	Increase since drainage.....	1,809	39,132	6,776	10,307	4,090	16,675	27,490	13,318	6,713	19,227
53	Per cent of increase.....	5.3	33.6	94.9	20.3	11.7	140.5	31.8	330.0	50.7	203.0
54	Per cent increase is of all improved land in farms, 1920.....	0.8	16.0	4.4	3.0	3.2	4.0	0.4	3.7	4.9	7.4
55	Timber and cut-over land, 1920.....	16			525	1,259	11,885	722	3,290	2,229	2,409
56	Timber and cut-over land prior to drainage.....	160	884		1,941	5,349	25,958	848	8,934	8,942	11,019
57	Decrease since drainage.....	144	884		1,416	4,090	14,073	126	5,644	6,713	8,610
58	Per cent of decrease.....	90.0	100.0		73.0	76.6	54.2	14.9	63.2	75.1	78.1
59	Other unimproved land, 1920.....		298	1,104	2,386		134	21,500	6,550		5,440
60	Other unimproved land prior to drainage.....	1,665	38,540	7,880	11,177		2,736	48,864	14,224		16,057
61	Decrease since drainage.....	1,665	38,248	6,776	8,791		2,602	27,364	7,674		10,617
62	Per cent of decrease.....	100.0	99.2	86.0	78.7		95.1	56.0	54.0		66.1
63	Swampy or subject to overflow, 1920.....	466	236	1,157		7,752	7,363	2,111	8,444	1,715	525
64	Swampy or subject to overflow prior to drainage.....	8,585	78,492	5,532	29,135	9,011	25,394	60,205	18,808	9,823	18,094
65	Decrease since drainage.....	8,119	78,256	4,375	29,135	1,259	18,031	64,094	10,364	8,108	18,070
66	Per cent of decrease.....	94.6	99.7	79.1	100.0	14.0	71.0	96.8	55.1	82.5	97.2
CAPITAL INVESTED AND COST PER ACRE.											
67	Total capital invested in and required for completion of operating enterprises.....	240,839	732,899	188,192	439,310	83,542	525,994	780,272	1,601,950	92,503	1,087,926
68	Capital invested in these enterprises to Dec. 31, 1919.....	240,839	732,899	120,192	439,310	83,542	525,994	780,272	1,178,450	92,503	1,059,826
69	Additional capital required to complete these enterprises.....			68,000					423,500		28,000
70	Average cost per acre when completed.....	6.65	4.70	12.53	6.92	0.27	12.97	5.73	58.91	4.17	29.77
71	Enterprises constructing open ditches only.....	10,000	132,502	22,000	23,977	83,542	77,213	131,151		89,803	40,834
72	Average cost per acre when completed.....	6.25	4.54	6.67	3.91	0.27	8.02	4.97		4.20	32.41
73	Enterprises constructing open ditches and levees.....						325,845	18,050	545,500		612,092
74	Average cost per acre when completed.....						21.72	1.82	72.73		30.12
75	Enterprises constructing tile drains only.....	180,885	225,468	69,949	83,449			49,019		2,700	
76	Average cost per acre when completed.....	7.83	5.06	8.13	6.72			6.69		3.30	
77	Enterprises constructing tile drains and levees.....										
78	Average cost per acre when completed.....										
79	Enterprises constructing open ditches and tile drains.....	49,954	374,929	96,243	331,884		77,959	582,052	23,500		
80	Average cost per acre when completed.....	4.34	4.57	30.89	7.39		6.95	6.29	6.53		
81	Enterprises constructing open ditches, tile drains, and levees.....						44,977		1,032,950		435,000
82	Average cost per acre when completed.....						9.49		64.18		29.07
CROPS.											
83	Improved land in enterprises reporting—										
84	Corn as principal crop on drained land.....	36,184	155,525	13,915	60,631	7,752	28,200	113,953	15,224	19,947	20,392
85	Wheat as principal crop on drained land.....						343		1,800		8,307
86	Potatoes as principal crop on drained land.....										
87	Vegetables as principal crop on drained land.....										
88	Not reporting principal crop on drained land.....								330		

¹When works under construction have been completed.

COUNTY TABLE II.—OPERATING DRAINAGE ENTERPRISES: 1920—Continued.

		Grund- y.	Hamil- ton.	Han- cock.	Hender- son.	Henry.	Iroquois.	Jackson.	Jersey.	Johnson.	Kane.	
LAND AREA.												
1	Approximate land area of the county.....	acres..	277,120	291,200	499,200	240,640	527,360	717,440	376,320	234,880	222,720	337,280
2	All land in operating drainage enterprises.....	acres..	11,360	50,470	17,100	17,500	84,560	283,159	19,078	12,412	15,896	48,628
3	Improved land.....	acres..	3,296	24,240	15,550	15,773	78,135	278,159	16,083	10,842	7,663	46,829
4	Per cent of all improved land in farms.....		1.5	11.5	4.2	9.1	18.3	43.4	7.3	7.1	5.5	18.4
5	Timber and cut-over land.....	acres..		26,230	1,550	967	1,105	950		1,570	5,283	51
6	Other unimproved land.....	acres..	8,064			760	5,320	4,050	2,995		2,950	1,746
7	Swampy or subject to overflow, in enterprises.....	acres..	8,064	5,958	1,550	967	1,313	4,082	2,995		3,940	1,465
8	Suffering a loss of crops from defective drainage.....	acres..		11,206	8,875	944	1,320	4,217			6,268	718
9	Assessed acreage.....	acres..	11,360	50,470	17,100	17,500	84,560	283,159	19,078	12,412	15,896	48,628
10	Excess over all land in operating enterprises.....	acres..										
DRAINAGE WORKS.												
11	Open ditches:											
12	Completed.....	miles..	4.3	65.8	14.0	35.0	155.8	337.4	53.0	16.5	18.1	60.7
13	Additional under construction.....	miles..		9.9			2.4					
14	Maximum completed in any enterprise.....	miles..	4.3	33.0	12.0	30.0	32.0	35.0	35.0	10.5	7.0	8.0
15	Maximum width at bottom of ditch ¹	feet..	13	80	35	40	80	30	23	30	50	40
16	Maximum of average depths of outlet ditches ¹	feet..	8.0	14.0	10.0	12.0	12.0	10.0	10.0	11.0	42.0	11.0
17	Mean depth of branch ditches ¹	feet..		7.8	6.0	4.9	4.2	4.9	6.8	5.0	4.2	5.9
18	Tile drains:											
19	Completed.....	miles..	5.8			31.0	42.4	172.5		0.6		26.1
20	Additional under construction.....	miles..	15.2		0.3	0.2						
21	Maximum completed in any enterprise.....	miles..	5.0			31.0	20.0	20.0		0.5		8.5
22	Maximum size of tile ¹	inches..	26		42	14	18	30		14		32
23	Accessory levees and dikes:											
24	Completed.....	miles..			11.5	27.0	5.8			2.8	5.0	
25	Additional under construction.....	miles..				1.0	5.5					
26	Pumping plants:											
27	Engine capacity.....	horsepower..			70	800				(2)		
28	Pump capacity.....	gallons per minute..			6,000	153,500				(2)		
29	Area served by pumps.....	acres..			2,500	17,500				9,540		
30	Area drained by open ditches only ¹	acres..		50,470			26,410	65,190	19,078	2,322	9,993	36,781
31	Length of these ditches.....	miles..		75.7			62.0	128.0	53.0	3.3	12.1	51.8
32	Average length per acre.....	feet..		7.9			12.4	10.4	14.7	7.5	6.4	7.4
33	Area having open ditches and levees ¹	acres..			15,500		3,750				5,903	
34	Length of these ditches.....	miles..			12.0		5.5				6.0	
35	Average length per acre.....	feet..			4.1		7.7				5.4	
36	Length of the accessory levees.....	miles..			11.0		11.0				5.0	
37	Area drained by tile only ¹	acres..	2,400					17,820				3,445
38	Length of these tile.....	miles..	5.0					34.9				11.0
39	Average length per acre.....	feet..	11.0					10.3				16.9
40	Area having tile drains and levees ¹	acres..										
41	Length of these tile.....	miles..										
42	Average length per acre.....	feet..										
43	Area drained by open ditches and tile drains ¹	acres..	8,960				50,800	200,149		9,540		8,400
44	Length of these drains.....	miles..	20.3				119.1	347.0		11.0		24.0
45	Average length per acre.....	feet..	12.0				12.4	9.2		6.1		15.1
46	Area having open ditches, tile drains, and levees ¹	acres..			1,600	17,500	3,000			550		
47	Length of these drains.....	miles..			2.3	66.2	14.0			2.8		
48	Average length per acre.....	feet..			7.0	20.0	20.5			26.9		
49	Length of the accessory levees.....	miles..			0.5	28.0	0.3			2.8		
DEVELOPMENT OF LAND.												
50	Improved land in operating enterprises, 1920.....	acres..	3,296	24,240	15,550	15,773	78,135	278,159	16,083	10,842	7,663	46,829
51	Improved land prior to drainage.....	acres..	896	14,292	2,055	1,520	33,551	181,480	3,780	3,044	5,388	5,005
52	Increase since drainage.....	acres..	2,400	9,948	13,495	14,253	44,584	96,679	12,323	7,798	2,275	41,823
53	Per cent of increase.....		267.9	69.6	656.7	937.7	132.9	53.3	327.7	256.2	42.2	835.5
54	Per cent increase is of all improved land in farms, 1920.....		1.1	4.7	3.7	8.3	10.4	15.1	5.6	5.1	1.6	15.4
55	Timber and cut-over land, 1920.....	acres..		26,230	1,550	967	1,105	950		1,570	5,283	51
56	Timber and cut-over land prior to drainage.....	acres..		36,178	11,625	4,790	2,205	2,662	5,646	8,818	7,558	251
57	Decrease since drainage.....	acres..		9,948	10,075	3,823	1,100	1,712	5,648	7,248	2,275	200
58	Per cent of decrease.....			27.5	86.7		49.9	64.3	100.0	82.2	30.1	79.7
59	Other unimproved land, 1920.....	acres..	8,064			760	5,320	4,050	2,995		2,950	1,746
60	Other unimproved land prior to drainage.....	acres..	10,464			3,420	11,190	48,804	9,072		2,950	48,369
61	Decrease since drainage.....	acres..	2,400			3,420	10,430	43,484	6,077		550	41,823
62	Per cent of decrease.....		22.9			100.0	93.2	89.1	69.0		100.0	96.0
63	Swampy or subject to overflow, 1920.....	acres..	8,064	5,958	1,550	967	1,313	4,082	2,995		3,940	1,465
64	Swampy or subject to overflow prior to drainage.....	acres..	9,984	16,487	4,700	11,420	25,535	111,258	9,672	10,297	7,649	30,283
65	Decrease since drainage.....	acres..	1,920	10,529	3,150	10,453	24,222	107,176	6,677	10,297	3,709	28,818
66	Per cent of decrease.....		19.2	63.9	67.0	91.5	64.9	96.3	69.0	100.0	48.5	95.2
CAPITAL INVESTED AND COST PER ACRE.												
67	Total capital invested in and required for completion of operating enterprises.....	dollars..	198,612	623,901	250,000	650,000	1,009,750	1,329,378	253,000	344,106	107,448	291,671
68	Capital invested in these enterprises to Dec. 31, 1919.....	dollars..	122,444	433,901	245,000	600,000	965,750	1,320,378	253,000	344,106	107,448	291,671
69	Additional capital required to complete these enterprises.....	dollars..	76,168	190,000	5,000	50,000	44,000					
70	Average cost per acre when completed.....	dollars..	17.48	12.36	14.62	37.14	11.94	5.75	13.26	27.73	6.76	6.00
71	Enterprises constructing open ditches only.....	dollars..		623,901			225,750	351,178	253,000	15,000	98,550	148,075
72	Average cost per acre when completed.....	dollars..		12.36			8.55	6.39	13.26	6.46	6.86	4.03
73	Enterprises constructing open ditches and levees.....	dollars..			200,000		118,000				38,898	
74	Average cost per acre when completed.....	dollars..			12.90		31.47				6.59	
75	Enterprises constructing tile drains only.....	dollars..	16,060					123,576				39,096
76	Average cost per acre when completed.....	dollars..	6.67					6.93				11.35
77	Enterprises constructing tile drains and levees.....	dollars..										
78	Average cost per acre when completed.....	dollars..										
79	Enterprises constructing open ditches and tile drains.....	dollars..	182,612				621,000	1,154,624		309,186		104,500
80	Average cost per acre when completed.....	dollars..	20.38				12.22	5.77		32.41		12.44
81	Enterprises constructing open ditches, tile drains, and levees.....	dollars..			50,000	650,000	45,000			20,000		
82	Average cost per acre when completed.....	dollars..			31.25	37.14	12.50			33.36		
CROPS.												
83	Improved land in enterprises reporting—											
84	Corn as principal crop on drained land.....	acres..	3,296	24,240	15,550	15,773	78,135	278,159	16,083	10,842	7,663	46,829
85	Wheat as principal crop on drained land.....	acres..										4,000
86	Potatoes as principal crop on drained land.....	acres..										
87	Vegetables as principal crop on drained land.....	acres..										
88	Not reporting principal crop on drained land.....	acres..										

¹ When works under construction have been completed.² Pumping plant located in Greene County.

COUNTY TABLE II.—OPERATING DRAINAGE ENTERPRISES: 1920—Continued.

		Kanka- kee.	Kendall.	La Salle.	Lake.	Law- rence.	Lee.	Living- ston.	Logan.	McHenry.	
LAND AREA.											
1	Approximate land area of the county.....	acres.	427,520	207,360	733,440	291,200	229,120	474,880	667,520	394,880	396,800
2	All land in operating drainage enterprises.....	acres.	125,344	7,414	41,861	14,520	61,592	85,460	47,379	22,030	48,325
3	Improved land.....	acres.	115,704	7,264	40,812	14,430	48,838	84,026	40,314	21,850	45,650
4	Per cent of all improved land in farms.....		31.6	4.2	6.8	8.6	27.0	21.4	7.5	6.2	17.3
5	Timber and cut-over land.....	acres.	9,640	150	1,049	90	5,812	263	1,065	180	2,675
6	Other unimproved land.....	acres.	8,991	150	1,049	.....	5,902	2,886	6,747	.....	1,075
7	Swampy or subject to overflow, in enterprises.....	acres.	15,411	150	19	1,015	9,085	9,181	1,484	666	204
8	Suffering a loss of crops from defective drainage.....	acres.	125,344	7,414	41,861	14,520	61,592	97,635	47,379	25,260	48,325
9	Assessed acreage.....	acres.	125,344	7,414	41,861	14,520	61,592	12,175	.....	3,230	.....
10	Excess over all land in operating enterprises.....	acres.	.....	.....	.....	.....	.....	.....	.....	.....	.....
DRAINAGE WORKS.											
11	Open ditches:										
12	Completed.....	miles.	125.3	15.6	35.4	23.4	85.3	130.4	24.2	25.8	39.6
13	Additional under construction.....	miles.	.....	.....	.....	.....	1.5	0.8	4.0	.....	.....
14	Maximum completed in any enterprise.....	miles.	12.0	5.5	8.0	4.5	13.5	43.8	7.5	13.0	12.0
15	Maximum width at bottom of ditch ¹	feet.	50	16	16	12	30	70	30	25	30
16	Maximum average depths of outlet ditches ¹	feet.	10.0	11.0	8.0	10.0	15.0	12.0	8.0	30.0	9.0
17	Mean depth of branch ditches ¹	feet.	6.0	.....	4.7	5.0	6.3	6.9	6.0	7.0	6.3
18	Tile drains:										
19	Completed.....	miles.	141.6	7.0	42.0	15.6	22.9	42.2	19.3	98.6	.....
20	Additional under construction.....	miles.	.....	.....	2.3	.....	3.1	11.1	.....	10.9	.....
21	Maximum completed in any enterprise.....	miles.	11.0	4.0	7.0	4.7	13.0	5.3	7.5	22.4	.....
22	Maximum size of tile ¹	inches.	40	24	30	30	30	30	24	32	.....
23	Accessory levees and dikes:										
24	Completed.....	miles.	5.5	.....	.....	.....	7.0	.....	.....	.....	.....
25	Additional under construction.....	miles.	.....	.....	.....	.....	.....	.....	.....	.....	.....
26	Pumping plants:										
27	Engine capacity.....	horsepower.	.....	.....	.....	.....	.....	.....	.....	.....	.....
28	Pump capacity.....	gallons per minute.	.....	.....	.....	.....	.....	.....	.....	.....	.....
29	Area served by pumps.....	acres.	.....	.....	.....	.....	.....	.....	.....	.....	.....
30	Area drained by open ditches only ¹	acres.	30,980	5,431	13,481	6,730	61,592	30,230	8,050	16,466	.....
31	Length of these ditches.....	miles.	33.8	14.8	23.0	17.0	86.8	57.1	14.0	22.8	.....
32	Average length per acre.....	feet.	5.8	14.4	9.0	13.3	7.4	10.0	0.2	7.3	.....
33	Area having open ditches and levees ¹	acres.	11,511	.....	.....	.....	(²)	1.0	.....	.....	.....
34	Length of these ditches.....	miles.	12.0	.....	.....	.....	.....	.....	.....	.....	.....
35	Average length per acre.....	feet.	5.5	.....	.....	.....	.....	.....	.....	.....	.....
36	Length of the accessory levees.....	miles.	5.0	.....	.....	.....	.....	.....	.....	.....	.....
37	Area drained by tile only ¹	acres.	20,635	1,900	8,490	3,000	1,100	24,209	3,044	2,980	.....
38	Length of these tile.....	miles.	71.0	7.0	19.1	7.7	2.5	43.5	15.4	10.1	.....
39	Average length per acre.....	feet.	18.3	10.5	11.9	13.6	12.0	9.5	26.7	17.9	.....
40	Area having tile drains and levees ¹	acres.	.....	.....	.....	.....	.....	.....	.....	.....	.....
41	Length of these tile.....	miles.	.....	.....	.....	.....	.....	.....	.....	.....	.....
42	Average length per acre.....	feet.	.....	.....	.....	.....	.....	.....	.....	.....	.....
43	Length of the accessory levees.....	miles.	.....	.....	.....	.....	.....	.....	.....	.....	.....
44	Area drained by open ditches and tile ¹	acres.	50,298	83	10,890	4,700	19,380	15,120	2,520	45,345	.....
45	Length of these drains.....	miles.	128.2	1.4	37.6	14.3	39.8	24.0	6.9	139.0	.....
46	Average length per acre.....	feet.	13.5	89.1	10.0	15.8	10.8	8.4	14.5	16.2	.....
47	Area having open ditches, tile drains, and levees ¹	acres.	11,920	.....	.....	.....	34,750	.....	.....	.....	.....
48	Length of these drains.....	miles.	21.3	.....	.....	.....	56.8	.....	.....	.....	.....
49	Average length per acre.....	feet.	9.4	.....	.....	.....	8.6	.....	.....	.....	.....
50	Length of the accessory levees.....	miles.	0.5	.....	.....	.....	6.0	.....	.....	.....	.....
DEVELOPMENT OF LAND.											
51	Improved land in operating enterprises, 1920.....	acres.	115,704	7,264	40,812	14,430	48,838	84,026	40,314	21,850	45,650
52	Improved land prior to drainage.....	acres.	67,794	1,416	34,441	4,667	15,290	30,376	43,290	1,868	11,434
53	Increase since drainage.....	acres.	47,910	5,848	6,371	9,763	33,548	53,650	3,024	10,982	34,216
54	Per cent of increase ³		70.7	413.0	18.5	209.2	219.4	176.6	7.0	299.2	299.2
55	Per cent increase is of all improved land in farms, 1920.....		13.1	3.4	1.1	5.8	18.6	13.7	0.5	5.6	12.9
56	Timber and cut-over land, 1920.....	acres.	9,640	150	1,049	90	5,812	263	1,065	180	2,675
57	Timber and cut-over land prior to drainage.....	acres.	5,471	.....	.....	674	28,266	263	1,380	300	300
58	Decrease since drainage.....	acres.	5,471	.....	.....	674	28,266	263	1,380	300	300
59	Per cent of decrease.....		100.0	.....	.....	86.6	79.4	.....	87.0	100.0	100.0
60	Other unimproved land, 1920.....	acres.	9,640	150	1,049	90	5,812	263	1,065	180	2,675
61	Other unimproved land prior to drainage.....	acres.	52,079	5,998	7,420	9,179	18,030	54,821	4,089	18,782	30,591
62	Decrease since drainage.....	acres.	42,439	5,848	6,371	9,179	11,094	53,650	3,024	18,782	33,916
63	Per cent of decrease.....		81.5	97.5	85.0	100.0	61.5	97.9	74.0	100.0	92.7
64	Swampy or subject to overflow, 1920.....	acres.	8,991	150	1,049	90	5,812	263	1,065	180	2,675
65	Swampy or subject to overflow prior to drainage.....	acres.	55,154	6,047	8,225	6,400	32,120	59,357	17,826	18,782	26,191
66	Decrease since drainage.....	acres.	46,163	5,897	7,176	6,400	26,218	56,471	11,070	18,782	25,116
67	Per cent of decrease.....		83.7	97.5	87.2	100.0	81.6	95.1	62.2	100.0	95.9
CAPITAL INVESTED AND COST PER ACRE.											
68	Total capital invested in and required for completion of operating enter- prises.....	dollars.	932,234	80,392	312,436	140,650	304,734	1,339,563	426,762	193,905	530,070
69	Capital invested in these enterprises to Dec. 31, 1919.....	dollars.	932,234	80,392	294,936	140,650	304,734	1,284,563	312,304	193,905	479,570
70	Additional capital required to complete these enterprises.....	dollars.	.....	.....	17,500	.....	.....	55,000	114,458	.....	50,500
71	Average cost per acre when completed.....	dollars.	7.44	10.84	7.46	9.69	4.95	15.67	9.01	8.80	10.97
72	Enterprises constructing open ditches only.....	dollars.	150,019	49,362	65,800	62,300	304,734	463,333	28,700	139,478	.....
73	Average cost per acre when completed.....	dollars.	5.04	9.09	4.88	9.26	4.95	15.33	3.57	8.47	.....
74	Enterprises constructing open ditches and levees.....	dollars.	19,500	.....	.....	.....	.....	1,422	.....	.....	.....
75	Average cost per acre when completed.....	dollars.	1.69	.....	.....	.....	.....	.....	.....	.....	.....
76	Enterprises constructing tile drains only.....	dollars.	126,115	24,780	51,110	26,350	.....	7,000	196,062	48,420	32,000
77	Average cost per acre when completed.....	dollars.	6.11	13.04	6.02	8.78	.....	6.36	8.10	15.91	10.74
78	Enterprises constructing tile drains and levees.....	dollars.	.....	.....	.....	.....	.....	.....	.....	.....	.....
79	Average cost per acre when completed.....	dollars.	.....	.....	.....	.....	.....	.....	.....	.....	.....
80	Enterprises constructing open ditches and tile drains.....	dollars.	524,600	6,250	195,526	52,000	.....	103,508	202,000	6,007	498,070
81	Average cost per acre when completed.....	dollars.	10.43	75.30	9.83	10.86	.....	5.34	13.36	2.38	10.98
82	Enterprises constructing open ditches, tile drains, and levees.....	dollars.	106,000	.....	.....	.....	.....	764,300	.....	.....	.....
83	Average cost per acre when completed.....	dollars.	8.89	.....	.....	.....	.....	21.99	.....	.....	.....
CROPS.											
84	Improved land in enterprises reporting—										
85	Corn as principal crop on drained land.....	acres.	111,784	7,264	40,812	14,430	38,606	84,026	46,314	13,030	45,650
86	Wheat as principal crop on drained land.....	acres.	.....	.....	.....	.....	10,232	.....	.....	8,820	.....
87	Potatoes as principal crop on drained land.....	acres.	.....	.....	.....	.....	.....	.....	.....	.....	.....
88	Vegetables as principal crop on drained land.....	acres.	3,000	.....	.....	.....	.....	.....	.....	.....	.....
89	Not reporting principal crop on drained land.....	acres.	920	.....	.....	.....	.....	.....	.....	.....	.....

¹ When works under construction have been completed.² Area included in "open ditches, tile drains, and levees."³ Per cent not shown when more than 1,000.

DRAINAGE—ILLINOIS.

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COUNTY TABLE II.—OPERATING DRAINAGE ENTERPRISES: 1920—Continued.

		McLean.	Macon.	Macou- pin.	Madison.	Mason.	Massac.	Menard.	Mercer.	Monroe.	
LAND AREA.											
1	Approximate land area of the county.....	acres..	762,240	374,400	550,400	471,680	355,200	153,600	202,880	345,600	248,960
2	All land in operating drainage enterprises.....	acres..	116,861	52,026	7,575	28,119	118,620	28,800	16,788	22,320	24,860
3	Improved land.....	acres..	113,161	51,688	7,500	16,335	108,762	7,200	14,988	19,369	22,726
4	Per cent of all improved land in farms.....	.....	16.5	15.5	1.9	4.8	40.4	7.6	9.0	7.4	13.9
5	Timber and cut-over land.....	acres..	160	289	75	2,400	1,989	21,600	600	1,040	1,040
6	Other unimproved land.....	acres..	3,700	178	75	9,884	7,899	1,200	1,011	1,011	2,134
7	Swampy or subject to overflow, in enterprises.....	acres..	4,460	289	75	7,956	7,365	8,640	650	1,065	2,404
8	Suffering a loss of crops from defective drainage.....	acres..	132,708	61,666	7,575	28,119	118,620	28,800	16,788	23,840	24,860
9	Assessed acreage.....	acres..	15,842	9,640	.....	.....	.....	.....	.....	.....	.....
10	Excess over all land in operating enterprises.....	acres..	.....	.....	.....	.....	.....	.....	.....	.....	.....
DRAINAGE WORKS.											
11	Open ditches:										
12	Completed.....	miles..	87.2	43.0	3.2	22.3	154.9	54.6	27.5	24.0	45.9
13	Additional under construction.....	miles..	.....	.....	.....	.....	3.9	.....	.....	.....	.....
14	Maximum completed in any enterprise.....	miles..	15.5	15.2	2.8	12.0	32.0	54.6	9.0	15.0	18.0
15	Maximum width at bottom of ditch ¹	feet..	35	20	10	80	75	50	40	30	22
16	Maximum of average depths of outlet ditches ¹	feet..	9.5	8.0	11.0	9.0	40.0	42.0	40.0	5.5	7.0
17	Mean depth of branch ditches ¹	feet..	7.7	4.6	.....	3.3	4.6	.....	7.0	3.9	3.7
18	Tile drains:										
19	Completed.....	miles..	34.3	71.3	15.4	.....	5.3	.....	2.5	.....	.....
20	Additional under construction.....	miles..	5.5	.....	.....	.....	1.2	.....	.....	.....	.....
21	Maximum completed in any enterprise.....	miles..	6.8	6.3	8.2	.....	2.8	.....	2.5	.....	.....
22	Maximum size of tile ¹	inches..	36	40	30	.....	30	.....	12	.....	.....
23	Accessory levees and dikes:										
24	Completed.....	miles..	.....	.....	2.7	2.3	12.2	7.7	17.5	15.4	26.3
25	Additional under construction.....	miles..	.....	.....	.....	7.7	.....	1.9	.....	7.6	.....
26	Pumping plants:										
27	Engine capacity.....	horsepower..	.....	.....	.....	(2)	60	.....	50	1,150	.....
28	Pump capacity.....	gallons per minute..	.....	.....	.....	(2)	16,000	.....	8,400	225,000	.....
29	Area served by pumps.....	acres..	.....	.....	.....	20,000	1,320	.....	2,000	20,230	.....
30	Area drained by open ditches only ¹	acres..	59,861	25,068	.....	8,119	110,233	.....	11,000	1,520	8,700
31	Length of these ditches.....	miles..	44.0	33.2	.....	10.3	147.3	.....	15.0	(8)	21.0
32	Average length per acre.....	feet..	3.9	7.0	.....	6.7	7.1	.....	7.2	.....	12.7
33	Area having open ditches and levees ¹	acres..	.....	.....	.....	20,000	1,800	28,800	2,288	20,800	16,160
34	Length of these ditches.....	miles..	.....	.....	.....	12.0	4.0	54.6	7.0	24.0	24.9
35	Average length per acre.....	feet..	.....	.....	.....	3.2	11.7	10.0	16.2	6.1	8.1
36	Length of the accessory levees.....	miles..	.....	.....	.....	10.0	3.7	9.6	9.0	23.0	26.3
37	Area drained by tile only ¹	acres..	11,360	26,958	3,020	.....	.....	.....	.....	.....	.....
38	Length of these tile.....	miles..	16.1	62.9	3.1	.....	.....	.....	.....	.....	.....
39	Average length per acre.....	feet..	7.5	12.3	5.4	.....	.....	.....	.....	.....	.....
40	Area having tile drains and levees ¹	acres..	.....	.....	.....	.....	.....	.....	.....	.....	.....
41	Length of these tile.....	miles..	.....	.....	.....	.....	.....	.....	.....	.....	.....
42	Average length per acre.....	feet..	.....	.....	.....	.....	.....	.....	.....	.....	.....
43	Area drained by open ditches and tile ¹	acres..	45,640	(4)	4,005	.....	3,087	.....	.....	.....	.....
44	Length of these drains.....	miles..	66.9	18.2	12.6	.....	6.0	.....	.....	.....	.....
45	Average length per acre.....	feet..	7.7	.....	16.6	.....	10.3	.....	.....	.....	.....
46	Area having open ditches, tile drains, and levees ¹	acres..	.....	.....	.....	.....	3,500	.....	3,500	.....	.....
47	Length of these drains.....	miles..	.....	.....	.....	.....	8.0	.....	8.0	.....	.....
48	Average length per acre.....	feet..	.....	.....	.....	.....	12.1	.....	12.1	.....	.....
49	Length of the accessory levees.....	miles..	.....	.....	.....	.....	8.5	.....	8.5	.....	.....
DEVELOPMENT OF LAND.											
50	Improved land in operating enterprises, 1920.....	acres..	113,161	51,688	7,500	16,335	108,762	7,200	14,988	19,369	22,726
51	Improved land prior to drainage.....	acres..	103,811	38,645	35	14,643	24,990	2,880	4,500	337	12,388
52	Increase since drainage.....	acres..	9,350	13,043	7,465	1,692	83,772	4,320	10,488	19,032	10,338
53	Per cent of increase ².....	.....	9.0	33.8	.....	11.6	335.2	150.0	233.1	.....	83.5
54	Per cent increase is of all improved land in farms, 1920.....	.....	1.4	3.9	1.9	0.5	31.1	4.6	6.3	7.3	6.3
55	Timber and cut-over land, 1920.....	acres..	160	296	75	2,400	1,989	21,600	600	1,040	1,040
56	Timber and cut-over land prior to drainage.....	acres..	296	136	75	2,972	11,697	25,920	1,200	11,090	2,246
57	Decrease since drainage.....	acres..	136	289	75	572	9,708	4,320	600	10,050	2,246
58	Per cent of decrease.....	.....	45.9	.....	.....	19.2	83.0	16.7	50.0	90.6	100.0
59	Other unimproved land, 1920.....	acres..	3,700	178	75	9,384	7,869	1,200	1,011	1,011	2,134
60	Other unimproved land prior to drainage.....	acres..	13,050	13,085	7,540	10,504	81,633	.....	11,088	10,893	10,226
61	Decrease since drainage.....	acres..	9,350	12,907	7,465	1,120	74,064	.....	9,888	8,982	8,092
62	Per cent of decrease.....	.....	71.6	98.6	99.0	10.7	90.4	.....	89.2	82.5	79.1
63	Swampy or subject to overflow, 1920.....	acres..	4,460	289	75	7,956	7,365	8,640	650	1,065	2,404
64	Swampy or subject to overflow prior to drainage.....	acres..	40,496	20,374	7,540	13,067	107,566	14,400	16,788	14,312	11,036
65	Decrease since drainage.....	acres..	36,036	20,085	7,540	5,111	100,201	5,760	16,138	12,347	8,632
66	Per cent of decrease.....	.....	89.0	98.6	100.0	39.1	93.2	40.0	96.1	86.3	78.2
CAPITAL INVESTED AND COST PER ACRE.											
67	Total capital invested in and required for completion of operating enterprises.....	dollars..	633,994	238,151	64,483	3,048,500	1,353,190	621,600	176,500	975,400	738,446
68	Capital invested in these enterprises to Dec. 31, 1919.....	dollars..	573,761	238,151	64,483	2,048,500	1,153,190	609,600	176,500	558,600	738,446
69	Additional capital required to complete these enterprises.....	dollars..	60,233	.....	.....	1,000,000	200,000	12,000	.....	416,800	.....
70	Average cost per acre when completed.....	dollars..	5.43	4.58	8.51	108.41	11.41	21.58	10.51	48.70	29.70
71	Enterprises constructing open ditches only.....	dollars..	145,710	72,427	.....	48,500	1,236,882	.....	98,000	14,000	245,000
72	Average cost per acre when completed.....	dollars..	2.43	2.89	.....	5.97	11.22	.....	8.91	9.21	28.16
73	Enterprises constructing open ditches and levees.....	dollars..	.....	.....	.....	3,000,000	41,808	621,600	51,000	961,400	493,446
74	Average cost per acre when completed.....	dollars..	.....	.....	.....	150.00	23.23	21.58	22.29	46.22	30.64
75	Enterprises constructing tile drains only.....	dollars..	134,119	151,326	19,630	.....	.....	.....	.....	.....	.....
76	Average cost per acre when completed.....	dollars..	11.81	5.61	6.50	.....	.....	.....	.....	.....	.....
77	Enterprises constructing tile drains and levees.....	dollars..	.....	.....	.....	.....	.....	.....	.....	.....	.....
78	Average cost per acre when completed.....	dollars..	.....	.....	.....	.....	.....	.....	.....	.....	.....
79	Enterprises constructing open ditches and tile drains.....	dollars..	354,165	14,398	24,853	.....	47,060	.....	.....	.....	.....
80	Average cost per acre when completed.....	dollars..	7.76	6.21	.....	.....	15.23	.....	.....	.....	.....
81	Enterprises constructing open ditches, tile drains, and levees.....	dollars..	.....	.....	20,000	.....	27,500	.....	27,500	.....	.....
82	Average cost per acre when completed.....	dollars..	.....	.....	36.36	.....	7.86	.....	7.86	.....	.....
CROPS.											
83	Improved land in enterprises reporting—										
84	Corn as principal crop on drained land.....	acres..	113,161	51,688	7,275	11,760	102,376	7,200	14,988	19,369	22,726
85	Wheat as principal crop on drained land.....	acres..	.....	.....	225	4,575	6,386	.....	.....	.....	.....
86	Potatoes as principal crop on drained land.....	acres..	.....	.....	.....	.....	.....	.....	.....	.....	.....
87	Vegetables as principal crop on drained land.....	acres..	.....	.....	.....	.....	.....	.....	.....	.....	.....
88	Not reporting principal crop on drained land.....	acres..	.....	.....	.....	.....	.....	.....	.....	.....	.....

¹ When works under construction have been completed.² Pumping plant located in St. Clair County.³ Ditches reported in Rock Island County.⁴ Area included in "open ditches only."⁵ Per cent not shown when more than 1,000.⁶ Not for drainage of agricultural land only.

COUNTY TABLE II.—OPERATING DRAINAGE ENTERPRISES: 1920—Continued.

		Mont- gomery.	Morgan.	Moultrie.	Ogle.	Peoria.	Piatt.	Pike.	Pope.	Pulaski.	
LAND AREA.											
1	Approximate land area of the county.....	acres	440,960	308,040	216,320	483,840	407,040	288,640	503,040	246,400	121,600
2	All land in operating drainage enterprises.....	acres	48,521	10,013	20,250	12,820	6,100	122,884	67,683	12,500	10,298
3	Improved land.....	acres	48,135	8,946	19,966	12,738	5,465	121,934	60,379	9,835	13,829
4	Per cent of all improved land in farms.....		13.5	8.0	10.5	3.3	2.1	48.2	10.1	7.5	17.6
5	Timber and cut-over land.....	acres	49	284	38	210	3,385	2,665	5,469		
6	Other unimproved land.....	acres	386	1,018	44	425	450	3,919			
7	Swampy or subject to overflow, in enterprises.....	acres	800	1,664	375	850	450	1,070	700	90	
8	Suffering a loss of crops from defective drainage.....	acres	790	1,724	1,494	2,270	850	7,303	2,966	7,660	
9	Assessed acreage.....	acres	48,521	10,013	20,250	12,820	6,100	122,969	67,683	12,500	10,298
10	Excess over all land in operating enterprises.....	acres					585				
DRAINAGE WORKS.											
11	Open ditches:										
12	Completed.....	miles	62.1	14.8	22.7	18.3	9.5	117.2	43.0	14.9	20.6
13	Additional under construction.....	miles				1.7				0.7	
14	Maximum completed in any enterprise.....	miles	9.5	6.0	7.0	9.0	5.0	14.0	34.0	14.3	10.0
15	Maximum width at bottom of ditch ¹	feet	30	18	20	40	20	40	80	50	50
16	Maximum of average depths of outlet ditches ¹	feet	12.0	8.0	9.0	7.0	12.0	17.0	12.0	42.0	42.0
17	Mean depth of branch ditches ¹	feet	4.1	4.0	6.0	6.7	8.0	5.0	7.8	5.0	4.0
18	Tile drains:										
19	Completed.....	miles	144.4	2.4	32.8	7.8	45.9	142.6	34.3		
20	Additional under construction.....	miles	2.0						10.8	7.0	
21	Maximum completed in any enterprise.....	miles	16.5	1.5	9.5	6.0	40.0	10.0	34.8		
22	Maximum size of tile ¹	inches	33	20	30	20	30	33	24	16	
23	Accessory levees and dikes:										
24	Completed.....	miles		20.6			9.3		59.2		2.8
25	Additional under construction.....	miles							0.1	0.1	
26	Pumping plants:										
27	Engine capacity.....	horsepower		325			515		450		
28	Pump capacity.....	gallons per minute		54,000			62,686		97,000		
29	Area served by pumps.....	acres		2,482			4,400		5,350		
30	Area drained by open ditches only ¹	acres	1,957		7,626	7,500		40,894			7,481
31	Length of these ditches.....	miles	9.5		10.5	13.0		57.4			12.0
32	Average length per acre.....	feet	25.6		7.3	9.2		7.4			8.5
33	Area having open ditches and levees ¹	acres		6,869			2,100		62,333	300	11,817
34	Length of these ditches.....	miles		10.8			4.5		84.0	0.6	14.6
35	Average length per acre.....	feet		8.3			11.3		2.9	10.6	6.5
36	Length of the accessory levees.....	miles		4.0			4.3		53.0	0.1	2.9
37	Area drained by tile only ¹	acres	12,091	500	4,527	920	1,700	30,270			
38	Length of these tile.....	miles	44.5	1.5	17.4	1.8	5.9	66.4			
39	Average length per acre.....	feet	19.4	15.8	20.3	10.3	18.3	11.6			
40	Area having tile drains and levees ¹	acres									
41	Length of these tile.....	miles									
42	Average length per acre.....	feet									
43	Area drained by open ditches and tile ¹	acres	34,473		8,097	4,400		51,250		12,200	
44	Length of these drains.....	miles	154.5		27.6	13.0		130.0		22.0	
45	Average length per acre.....	feet	23.7		18.0	15.6		14.0		9.5	
46	Area having open ditches, tile drains, and levees ¹	acres		2,654			2,300		5,350		
47	Length of these drains.....	miles		4.9			45.0		54.1		
48	Average length per acre.....	feet		9.7			103.3		53.4		
49	Length of the accessory levees.....	miles		16.0			5.0		6.2		
DEVELOPMENT OF LAND.											
50	Improved land in operating enterprises, 1920.....	acres	48,135	8,946	19,966	12,738	5,465	121,934	60,379	9,835	13,829
51	Improved land prior to drainage.....	acres	26,480	7,243	16,182	5,353	1,275	63,102	4,455	9,180	8,351
52	Increase since drainage.....	acres	21,640	1,703	3,784	7,385	4,190	58,832	55,924	655	5,478
53	Per cent of increase ²		81.7	23.5	23.4	138.0	328.6	93.2		7.1	65.6
54	Per cent increase is of all improved land in farms, 1920.....		6.1	0.6	2.0	1.9	1.6	23.3	14.9	0.5	7.0
55	Timber and cut-over land, 1920.....	acres		49	284	38	210		3,385	2,665	5,469
56	Timber and cut-over land prior to drainage.....	acres		133	618	38	3,075	4,651	23,153	3,520	10,447
57	Decrease since drainage.....	acres		84	334		2,865	4,651	19,768	655	5,478
58	Per cent of decrease.....			63.2	54.0		93.2	100.0	85.4	19.7	50.0
59	Other unimproved land, 1920.....	acres	386	1,018		44	425	450	3,919		
60	Other unimproved land prior to drainage.....	acres	22,035	2,637	3,450	7,429	1,750	54,631	40,075		
61	Decrease since drainage.....	acres	21,640	1,619	3,450	7,385	1,325	54,181	36,156		
62	Per cent of decrease.....		98.2	61.4	100.0	99.4	75.7	99.2	90.2		
63	Swampy or subject to overflow, 1920.....	acres	800	1,664	375	850	450	1,070	700	90	
64	Swampy or subject to overflow prior to drainage.....	acres	22,035	5,516	4,349	12,038	2,175	61,560	30,283	1,370	8,382
65	Decrease since drainage.....	acres	21,235	3,852	3,974	12,038	1,325	61,110	29,213	670	8,292
66	Per cent of decrease.....		66.4	60.8	91.4	100.0	60.9	60.3	96.5	48.9	98.9
CAPITAL INVESTED AND COST PER ACRE.											
67	Total capital invested in and required for completion of operating enterprises.....	dollars	386,965	156,932	159,901	141,900	246,760	865,364	1,549,027	101,550	218,595
68	Capital invested in these enterprises to Dec. 31, 1919.....	dollars	383,853	150,932	159,901	113,900	246,760	865,364	1,532,727	66,350	218,595
69	Additional capital required to complete these enterprises.....	dollars	3,112			28,000			16,000	35,200	200
70	Average cost per acre when completed.....	dollars	7.98	15.67	7.90	11.07	40.45	7.07	22.90	8.12	11.33
71	Enterprises constructing open ditches only.....	dollars	12,000		44,275	72,000		265,701			47,045
72	Average cost per acre when completed.....	dollars	6.13		5.81	9.60		6.50			6.29
73	Enterprises constructing open ditches and levees.....	dollars		128,500			147,000		1,393,477	6,550	171,560
74	Average cost per acre when completed.....	dollars		18.73			70.00		22.36	21.83	14.52
75	Enterprises constructing tile drains only.....	dollars	85,738	6,000	82,886	6,000	32,760	173,110			
76	Average cost per acre when completed.....	dollars	7.09	12.00	13.31	6.52	19.27	5.72			
77	Enterprises constructing tile drains and levees.....	dollars									
78	Average cost per acre when completed.....	dollars									
79	Enterprises constructing open ditches and tile drains.....	dollars	289,227		32,740	63,900		426,553		95,000	
80	Average cost per acre when completed.....	dollars	8.39		4.04	14.52		8.32		7.79	
81	Enterprises constructing open ditches, tile drains, and levees.....	dollars		22,432			67,000		156,150		
82	Average cost per acre when completed.....	dollars		8.45			29.13		29.19		
CROPS.											
83	Improved land in enterprises reporting—										
84	Corn as principal crop on drained land.....	acres	48,135	2,574	19,966	12,738	5,465	120,649	60,379	9,835	11,160
85	Wheat as principal crop on drained land.....	acres		6,372							
86	Potatoes as principal crop on drained land.....	acres									
87	Vegetables as principal crop on drained land.....	acres									
88	Not reporting principal crop on drained land.....	acres						1,285			2,669

¹ When works under construction have been completed.² Per cent not shown when more than 1,000.

DRAINAGE—ILLINOIS.

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COUNTY TABLE II.—OPERATING DRAINAGE ENTERPRISES: 1920—Continued.

		Ran- dolph.	Rock Island.	St. Clair.	Saline.	Sanga- mon.	Schuyler.	Scott.	Shelby.	Taze- well.
LAND AREA.										
1	Approximate land area of the county.....	acres..	375,680	271,360	424,320	255,360	560,640	276,480	159,360	494,080
2	All land in operating drainage enterprises.....	acres..	18,949	23,906	55,242	66,251	7,097	16,080	32,393	31,834
3	Improved land.....	acres..	16,418	23,221	33,337	57,640	7,097	15,899	30,740	31,834
4	Per cent of all improved land in farms.....	.....	6.6	13.0	11.0	32.5	1.5	9.0	24.9	7.8
5	Timber and cut-over land.....	acres..	1,610	282	5,575	8,321	79	301	400	1,147
6	Other unimproved land.....	acres..	1,021	403	16,330	290	102	1,352	400	34,240
7	Swampy or subject to overflow, in enterprises.....	acres..	1,525	1,608	13,107	5,425	.....	1,537	400	.....
8	Suffering a loss of crops from defective drainage.....	acres..	1,205	479	10,209	21,758	204	1,135	400	.....
9	Assessed acreage.....	acres..	18,949	27,186	55,242	67,251	7,097	16,080	32,393	31,834
10	Excess over all land in operating enterprises.....	acres..	.....	3,280	.....	1,000	.....	.....	.....	.....
DRAINAGE WORKS.										
11	Open ditches:									
12	Completed.....	miles..	12.6	27.6	33.4	109.3	30.3	44.2	17.1	83.0
13	Additional under construction.....	miles..	0.5	0.4	4.0	2.3	.....	.....	.....	.....
14	Maximum completed in any enterprise.....	miles..	6.0	7.5	14.0	20.0	11.5	17.2	9.0	10.0
15	Maximum width at bottom of ditch ¹	feet..	15	40	80	80	28	60	35	75
16	Maximum of average depths of outlet ditches ¹	feet..	6.0	8.0	35.0	14.0	12.0	15.0	16.0	12.5
17	Mean depth of branch ditches ¹	feet..	3.5	4.7	7.0	5.7	7.3	5.0	.....	7.6
18	Tile drains:									
19	Completed.....	miles..	2.0	1.8	.....	6.3	18.0	202.9	71.7	15.2
20	Additional under construction.....	miles..	.....	.....	.....	.....	.....	.....	.....	.....
21	Maximum completed in any enterprise.....	miles..	2.0	1.8	.....	6.2	15.0	200.0	35.0	2.6
22	Maximum size of tile ¹	inches..	8	15	.....	20	30	18	40	14.6
23	Accessory levees and dikes:									
24	Completed.....	miles..	17.7	10.2	1.5	.....	26.6	50.2	.....	22.9
25	Additional under construction.....	miles..	1.0	5.0	10.0	.....	2.4	.....	.....	.....
26	Pumping plants:									
27	Engine capacity.....	horsepower..	.....	495	3,900	.....	850	980	.....	1,715
28	Pump capacity.....	gallons per minute..	.....	75,000	675,000	.....	114,500	137,000	.....	201,000
29	Area served by pumps.....	acres..	.....	9,168	10,000	.....	16,380	27,352	.....	13,861
30	Area drained by open ditches only ¹	acres..	4,700	13,718	13,042	66,251	.....	.....	17,710	19,419
31	Length of these ditches.....	miles..	8.2	13.1	18.9	111.6	.....	.....	14.6	37.5
32	Average length per acre.....	feet..	9.2	5.0	7.7	8.9	.....	.....	4.4	10.2
33	Area having open ditches and levees ¹	acres..	4,140	0,108	42,200	.....	4,186	1,854	.....	12,843
34	Length of these ditches.....	miles..	4.9	14.9	18.5	.....	8.8	5.0	.....	37.5
35	Average length per acre.....	feet..	6.2	8.6	2.3	.....	11.1	14.2	.....	15.4
36	Length of the accessory levees.....	miles..	2.7	15.2	11.5	.....	9.5	3.0	.....	17.7
37	Area drained by tile only ¹	acres..	.....	1,020	.....	7,097	.....	.....	8,730	.....
38	Length of these tile.....	miles..	.....	1.8	.....	6.3	.....	.....	62.2	.....
39	Average length per acre.....	feet..	.....	9.3	.....	4.7	.....	.....	37.6	.....
40	Area having tile drains and levees ¹	acres..	10,109	.....	.....	.....	.....	.....	.....	.....
41	Length of these tile.....	miles..	2.0	.....	.....	.....	.....	.....	.....	.....
42	Average length per acre.....	feet..	1.0	.....	.....	.....	.....	.....	.....	.....
43	Length of the accessory levees.....	miles..	16.0	.....	.....	.....	.....	.....	.....	.....
44	Area drained by open ditches and tile ¹	acres..	.....	.....	.....	.....	.....	.....	5,385	990
45	Length of these drains.....	miles..	.....	.....	.....	.....	.....	.....	12.0	4.6
46	Average length per acre.....	feet..	.....	.....	.....	.....	.....	.....	11.8	25.3
47	Area having open ditches, tile drains, and levees ¹	acres..	.....	.....	.....	.....	11,894	30,539	.....	1,018
48	Length of these drains.....	miles..	.....	.....	.....	.....	39.5	242.1	.....	21.2
49	Average length per acre.....	feet..	.....	.....	.....	.....	17.5	41.9	.....	110.0
50	Length of the accessory levees.....	miles..	.....	.....	.....	.....	19.5	47.2	.....	5.2
DEVELOPMENT OF LAND.										
51	Improved land in operating enterprises, 1920.....	acres..	16,418	23,221	33,337	57,640	7,097	15,899	30,740	31,834
52	Improved land prior to drainage.....	acres..	13,476	801	26,000	45,070	43	3,282	14,563	21,955
53	Increase since drainage.....	acres..	2,942	22,420	7,337	12,570	7,054	12,617	16,177	9,879
54	Per cent of increase ².....	.....	21.8	81.2	22.2	27.9	111.1	884.4	111.1	45.0
55	Per cent increase is of all improved land in farms, 1920.....	.....	1.2	12.6	2.4	7.1	1.5	7.1	13.1	2.4
56	Timber and cut-over land, 1920.....	acres..	1,510	282	5,575	8,321	79	301	400	.....
57	Timber and cut-over land prior to drainage.....	acres..	1,724	1,072	7,636	20,601	6,035	3,608	.....	9,331
58	Decrease since drainage.....	acres..	214	790	2,061	12,280	5,956	3,307	.....	9,331
59	Per cent of decrease.....	.....	12.4	73.7	37.0	59.6	98.7	91.7	.....	100.0
60	Other unimproved land, 1920.....	acres..	1,021	403	16,330	290	102	1,352	.....	73
61	Other unimproved land prior to drainage.....	acres..	3,749	22,033	21,608	580	7,054	6,763	14,222	19,362
62	Decrease since drainage.....	acres..	2,728	21,630	5,276	290	7,054	6,661	12,870	19,289
63	Per cent of decrease.....	.....	72.8	98.2	24.4	50.0	100.0	98.5	90.5	99.6
64	Swampy or subject to overflow, 1920.....	acres..	1,525	1,608	13,107	5,425	.....	1,537	400	.....
65	Swampy or subject to overflow prior to drainage.....	acres..	14,408	17,636	17,606	40,519	7,054	14,416	22,547	11,091
66	Decrease since drainage.....	acres..	12,882	16,028	4,499	35,094	7,054	14,416	21,010	10,691
67	Per cent of decrease.....	.....	89.4	90.9	25.6	86.6	100.0	100.0	93.2	96.4
CAPITAL INVESTED AND COST PER ACRE.										
68	Total capital invested in and required for completion of operating enterprises.....	dollars..	293,554	526,700	6,201,572	405,835	8,100	678,980	893,545	114,187
69	Capital invested in these enterprises to Dec. 31, 1919.....	dollars..	283,554	411,500	2,701,572	396,835	8,100	658,794	893,545	114,187
70	Additional capital required to complete these enterprises.....	dollars..	10,000	115,200	3,500,000	9,000	.....	20,186	.....	7,500
71	Average cost per acre when completed.....	dollars..	15.49	22.03	\$112.26	6.13	1.14	42.23	27.58	3.59
72	Enterprises constructing open ditches only.....	dollars..	55,000	96,400	166,572	405,835	.....	.....	10,169	224,963
73	Average cost per acre when completed.....	dollars..	11.70	7.03	12.77	6.13	.....	.....	1.08	11.58
74	Enterprises constructing open ditches and levees.....	dollars..	78,554	423,600	6,035,000	.....	271,146	26,000	.....	616,500
75	Average cost per acre when completed.....	dollars..	18.97	46.20	\$143.01	.....	64.77	14.02	.....	48.00
76	Enterprises constructing tile drains only.....	dollars..	.....	6,700	.....	.....	8,100	.....	75,107	.....
77	Average cost per acre when completed.....	dollars..	.....	6.57	.....	.....	1.14	.....	8.59	.....
78	Enterprises constructing tile drains and levees.....	dollars..	160,000	.....	.....	.....	.....	.....	.....	.....
79	Average cost per acre when completed.....	dollars..	15.83	.....	.....	.....	.....	.....	.....	.....
80	Enterprises constructing open ditches and tile drains.....	dollars..	.....	.....	.....	.....	.....	.....	19,011	15,000
81	Average cost per acre when completed.....	dollars..	.....	.....	.....	.....	.....	.....	3.70	15.63
82	Enterprises constructing open ditches, tile drains, and levees.....	dollars..	.....	.....	.....	.....	407,840	897,545	.....	167,500
83	Average cost per acre when completed.....	dollars..	.....	.....	.....	.....	84.29	28.41	.....	164.54
CROPS.										
84	Improved land in enterprises reporting—									
85	Corn as principal crop on drained land.....	acres..	16,418	23,221	33,337	57,640	7,097	15,899	30,740	31,834
86	Wheat as principal crop on drained land.....	acres..	.....	.....	.....	.....	.....	.....	.....	34,167
87	Potatoes as principal crop on drained land.....	acres..	.....	.....	.....	.....	.....	.....	.....	.....
88	Vegetables as principal crop on drained land.....	acres..	.....	.....	.....	.....	.....	.....	.....	.....
89	Not reporting principal crop on drained land.....	acres..	.....	.....	.....	.....	.....	.....	.....	.....

¹ When works under construction have been completed.² Per cent not shown when more than 1,000.³ Not for drainage of agricultural land only.

COUNTY TABLE II.—OPERATING DRAINAGE ENTERPRISES: 1920—Continued.

		Union.	Ver- million.	Wabash.	Wayne.	White.	White- side.	Will.	Wood- ford.	Other counties. ¹	
LAND AREA.											
1	Approximate land area of the county.....	acres..	257,920	589,440	140,800	469,120	324,480	434,560	540,160	337,920	2,245,120
2	All land in operating drainage enterprises.....	acres..	34,713	121,075	26,061	42,930	33,724	138,170	46,042	8,500	17,896
3	Improved land.....	acres..	21,369	112,843	23,751	35,195	28,762	130,909	40,526	6,400	14,141
4	Per cent of all improved land in farms.....	14.2	23.0	20.0	10.1	11.1	35.4	9.4	2.5	0.8	0.8
5	Timber and cut-over land.....	acres..	13,124	3,996	2,750	6,288	4,225	391	5,516	2,100	1,371
6	Other unimproved land.....	acres..	220	4,236	160	1,447	737	6,870	5,184	5,300	2,384
7	Swampy or subject to overflow, in enterprises.....	acres..	1,229	706	2,206	2,278	1,029	3,698	5,184	5,300	3,021
8	Suffering a loss of crops from defective drainage.....	acres..	208	406	1,067	10,961	4,092	3,943	225	.....	2,889
9	Assessed acreage.....	acres..	34,713	124,110	27,896	42,930	34,507	147,184	46,042	8,500	17,896
10	Excess over all land in operating enterprises.....	acres..	.....	3,035	1,235	.....	783	9,014	.....	.....	.....
DRAINAGE WORKS.											
11	Open ditches:										
12	Completed.....	miles..	49.1	104.7	83.1	89.7	65.3	236.8	58.1	13.2	45.7
13	Additional under construction.....	miles..	.....	.....	.....	1.1	1.8	6.3	.....	2.8	0.3
14	Maximum completed in any enterprise.....	miles..	15.0	13.0	9.5	19.0	8.0	80.0	9.0	10.0	8.0
15	Maximum width at bottom of ditch.....	feet..	50	28	35	50	50	80	40	22	60
16	Maximum of average depths of outlet ditches.....	feet..	42.0	12.0	12.0	15.0	8.0	12.0	11.0	9.0	10.0
17	Mean depth of branch ditches.....	feet..	7.5	6.0	6.5	7.3	6.3	4.5	4.6	7.5	6.7
18	Tile drains:										
19	Completed.....	miles..	.....	182.2	6.7	.....	1.8	4.0	43.4	.....	7.7
20	Additional under construction.....	miles..	.....	7.0	.....	.....	.....	1.0	10.2	3.5	2.0
21	Maximum completed in any enterprise.....	miles..	.....	12.2	3.0	.....	1.7	1.7	10.0	.....	4.5
22	Maximum size of tile.....	inches..	.....	42	30	.....	24	16	30	30	30
23	Accessory levees and dikes:										
24	Completed.....	miles..	29.7	.....	.....	.....	.....	31.0	.....	2.0	7.0
25	Additional under construction.....	miles..	2.9	.....	.....	.....	.....	2.9	.....	4.0	0.5
26	Pumping plants:										
27	Engine capacity.....	horsepower..	(³)	.....	.....	.....	(⁴)	.....	.....	.....	150
28	Pump capacity.....	gallons per minute..	(³)	.....	.....	.....	(⁴)	.....	.....	.....	80,000
29	Area served by pumps.....	acres..	500	.....	.....	.....	.....	4,319	.....	.....	3,000
30	Area drained by open ditches only.....	acres..	4,907	14,152	23,501	42,930	31,133	91,215	20,310	.....	10,004
31	Length of these ditches.....	miles..	21.0	26.7	70.1	90.8	62.7	171.0	28.1	.....	30.1
32	Average length per acre.....	feet..	22.3	10.0	15.7	11.2	10.6	9.9	7.3	.....	15.0
33	Area having open ditches and levees.....	acres..	29,746	.....	.....	.....	.....	20,521	.....	2,100	3,800
34	Length of these ditches.....	miles..	28.1	.....	.....	.....	.....	28.2	.....	10.0	6.0
35	Average length per acre.....	feet..	5.0	.....	.....	.....	.....	7.3	.....	25.1	12.5
36	Length of the accessory levees.....	miles..	32.6	.....	.....	.....	33.7	.....	.....	6.0	7.0
37	Area drained by tile only.....	acres..	8,101	872	.....	659	.....	5,272	.....	.....	.....
38	Length of these tile.....	miles..	32.6	2.7	.....	1.7	.....	13.4	.....	.....	.....
39	Average length per acre.....	feet..	21.2	16.3	.....	13.6	.....	13.4	.....	.....	.....
40	Area having tile drains and levees.....	acres..	.....	.....	.....	.....	.....	.....	.....	.....	.....
41	Length of these tile.....	miles..	.....	.....	.....	.....	.....	.....	.....	.....	.....
42	Average length per acre.....	feet..	.....	.....	.....	.....	.....	.....	.....	.....	.....
43	Length of the accessory levees.....	miles..	.....	.....	.....	.....	.....	.....	.....	.....	.....
44	Area drained by open ditches and tile.....	acres..	98,822	2,288	.....	1,932	11,040	20,460	6,400	.....	2,967
45	Length of these drains.....	miles..	234.6	17.0	.....	4.5	22.9	70.2	9.5	.....	11.1
46	Average length per acre.....	feet..	12.5	39.2	.....	12.3	10.4	18.1	7.8	.....	19.3
47	Area having open ditches, tile drains, and levees.....	acres..	.....	.....	.....	.....	14,794	.....	.....	.....	525
48	Length of these drains.....	miles..	.....	.....	.....	.....	26.0	.....	.....	.....	5.5
49	Average length per acre.....	feet..	.....	.....	.....	.....	9.6	.....	.....	.....	55.3
50	Length of the accessory levees.....	miles..	.....	.....	.....	.....	0.2	.....	.....	.....	0.5
DEVELOPMENT OF LAND.											
51	Improved land in operating enterprises, 1920.....	acres..	21,369	112,843	23,751	35,195	28,762	130,909	40,526	6,400	14,141
52	Improved land prior to drainage.....	acres..	13,954	100,760	9,508	23,862	21,052	68,609	23,070	6,400	7,160
53	Increase since drainage.....	acres..	7,415	12,083	14,243	11,333	7,710	62,300	17,456	.....	6,991
54	Per cent of increase.....	53.1	12.0	149.8	47.5	36.6	90.8	75.7	.....	.....	97.8
55	Per cent increase is of all improved land in farms, 1920.....	4.9	2.5	12.3	3.2	3.0	16.9	4.0	.....	.....	0.4
56	Timber and cut-over land, 1920.....	acres..	13,124	3,996	2,750	6,288	4,225	391	5,516	2,100	1,371
57	Timber and cut-over land prior to drainage.....	acres..	10,061	5,943	15,379	17,005	11,018	401	635	.....	4,214
58	Decrease since drainage.....	acres..	3,537	1,947	12,629	11,317	6,793	10	635	.....	2,843
59	Per cent of decrease.....	21.2	32.8	82.1	64.3	61.7	2.5	100.0	.....	.....	67.5
60	Other unimproved land, 1920.....	acres..	220	4,236	160	1,447	737	6,870	5,516	2,100	2,384
61	Other unimproved land prior to drainage.....	acres..	4,098	14,372	1,774	1,463	1,654	69,160	22,337	2,100	6,632
62	Decrease since drainage.....	acres..	3,878	10,136	1,614	10	917	62,290	16,821	.....	4,148
63	Per cent of decrease.....	94.6	70.5	91.0	1.1	55.4	90.1	75.3	.....	.....	63.5
64	Swampy or subject to overflow, 1920.....	acres..	1,229	706	2,206	2,278	1,029	3,698	5,184	5,300	3,021
65	Swampy or subject to overflow prior to drainage.....	acres..	10,672	57,701	14,324	16,060	15,142	52,730	19,028	5,300	9,154
66	Decrease since drainage.....	acres..	9,443	56,995	12,118	14,382	14,113	49,032	14,442	.....	6,133
67	Per cent of decrease.....	88.5	88.5	84.6	80.3	93.2	93.0	73.6	.....	.....	67.0
CAPITAL INVESTED AND COST PER ACRE.											
68	Total capital invested in and required for completion of operating enterprises.....	dollars..	522,550	1,011,498	296,945	282,959	240,644	993,704	388,681	171,000	504,886
69	Capital invested in these enterprises to Dec. 31, 1919.....	dollars..	497,850	973,498	296,945	282,959	233,402	883,204	334,849	147,750	487,886
70	Additional capital required to complete these enterprises.....	dollars..	24,700	38,000	.....	.....	7,242	110,500	53,832	23,250	17,000
71	Average cost per acre when completed.....	dollars..	15.05	8.35	11.14	6.59	7.14	7.19	8.44	20.12	23.21
72	Enterprises constructing open ditches only.....	dollars..	101,500	80,659	235,495	282,959	221,778	532,052	81,774	.....	66,799
73	Average cost per acre when completed.....	dollars..	20.43	5.70	10.02	6.59	7.12	5.83	4.03	.....	6.30
74	Enterprises constructing open ditches and levees.....	dollars..	421,050	.....	.....	.....	.....	212,092	.....	93,000	360,240
75	Average cost per acre when completed.....	dollars..	14.15	.....	.....	.....	.....	10.34	.....	44.29	96.38
76	Enterprises constructing tile drains only.....	dollars..	.....	97,718	6,613	.....	6,338	.....	78,824	.....	.....
77	Average cost per acre when completed.....	dollars..	.....	12.06	7.58	.....	9.62	.....	14.95	.....	.....
78	Enterprises constructing tile drains and levees.....	dollars..	.....	.....	.....	.....	.....	.....	.....	.....	.....
79	Average cost per acre when completed.....	dollars..	.....	.....	.....	.....	.....	.....	.....	.....	.....
80	Enterprises constructing open ditches and tile drains.....	dollars..	.....	833,121	54,837	.....	12,528	72,560	228,083	78,000	68,347
81	Average cost per acre when completed.....	dollars..	.....	8.43	23.97	.....	6.43	6.23	11.15	12.19	23.04
82	Enterprises constructing open ditches, tile drains, and levees.....	dollars..	.....	.....	.....	.....	.....	177,000	.....	.....	3,500
83	Average cost per acre when completed.....	dollars..	.....	.....	.....	.....	.....	11.96	.....	.....	6.67
CROPS.											
84	Improved land in enterprises reporting—										
85	Corn as principal crop on drained land.....	acres..	21,369	112,843	23,751	35,195	28,762	130,909	40,526	6,400	14,141
86	Wheat as principal crop on drained land.....	acres..	.....	.....	.....	.....	.....	.....	.....	.....	.....
87	Potatoes as principal crop on drained land.....	acres..	.....	.....	.....	.....	.....	.....	.....	.....	.....
88	Vegetables as principal crop on drained land.....	acres..	.....	.....	.....	.....	.....	.....	.....	.....	.....
89	Not reporting principal crop on drained land.....	acres..	.....	.....	.....	.....	.....	.....	.....	.....	.....

¹ Includes only Bond, Jasper, McDonough, Marion, Marshall, Putnam, Richland, and Winnebago Counties.² When works under construction have been completed.³ Pumping plant located in Alexander County.⁴ Pumping plant located in Rock Island County.

MANUFACTURES—ILLINOIS.

EXPLANATION OF TERMS.

Scope of census.—Census statistics of manufactures are compiled primarily for the purpose of showing the absolute and relative magnitude of the different branches of industry covered and their growth or decline. Incidentally, the effort is made to present data throwing light upon character of ownership, size of establishments, and similar subjects. When use is made of the statistics for these purposes it is imperative that due attention be given to their limitations, particularly in connection with any attempt to derive from them figures purporting to show average wages, cost of production, or profits.

The census did not cover establishments which were idle during the entire year or for which products were valued at less than \$500, or the manufacturing done in educational, eleemosynary, and penal institutions.

Period covered.—The returns relate to the calendar year 1919, or the business year which corresponded most nearly to that calendar year, and cover a year's operations, except for establishments which began or discontinued business during the year.

The establishment.—As a rule, the term "establishment" represents a single plant or factory, but in some cases it represents two or more plants which were operated under a common ownership or for which one set of books of account was kept. If, however, the plants constituting an establishment as thus defined were not all located within the same city, county, or state, separate reports were secured in order that the figures for each plant might be included in the statistics for the city, county, or state in which it was located. In some instances separate reports were secured for different industries carried on in the same establishment.

Classification by industries.—The establishments were assigned to the several classes of industries according to their products of chief value. The products reported for a given industry may thus, on the one hand, include minor products different from those covered by the class designation, and, on the other hand, may not represent the total product covered by this designation, because some of this class of product may be made in establishments in which it is not the product of chief value.

As a rule, the same designation is used for the industry wherever it appears, although all of the products indicated by this designation were not manufactured in the state or city for which these statistics are presented. In some instances the wording is changed so as to more correctly describe the products represented. For a number of industries subclasses are shown which indicate more definitely the kind of products.

Selected industries.—The general tables at the end of this section give the principal facts separately for the industries of the state. A selection has been made of certain leading industries of the state for more detailed consideration. Sometimes an industry of great importance has to be omitted because it comprises so few establishments that a detailed presentation would reveal the operations of individual concerns.

Comparisons with previous censuses.—Owing to changes in industrial conditions it is not always possible to classify establishments by industries in such a way as to permit accurate comparison with preceding censuses. At the census of 1909 the figures for kindred industries were combined. This practice has been followed in compiling the statistics for 1919 and 1914 when placed in com-

parison with those for 1909 and prior years. The comparative summary for 1919, 1914, and 1909, therefore, does not show separately all the industries given for 1919 in the detailed statement for the state.

Influence of increased prices.—In comparing figures for cost of materials, value of products, and value added by manufacture in 1919 with the corresponding figures for earlier censuses, account should be taken of the general increase in the prices of commodities during recent years. To the extent to which this factor has been influential the figures fail to afford an exact measure of the increase in the volume of business.

Persons engaged in the industry.—The following general classes of persons engaged in the manufacturing industries were distinguished: (1) Proprietors and firm members, (2) salaried officers of corporations, (3) superintendents and managers, (4) clerks (including other subordinate salaried employees), and (5) wage earners. In the reports for the censuses of 1904 and 1899 these five classes were shown according to the three main groups: (1) Proprietors and firm members, (2) salaried officials, clerks, etc., and (3) wage earners. In comparative tables covering the census of 1904 it is of course necessary to group the figures according to the classification that was employed at the earlier censuses.

The number of persons engaged in each industry, segregated by sex, and, in the case of wage earners, also by age (whether under 16 or 16 and over), was reported for a single representative day. The 15th of December was selected as representing for most industries normal conditions of employment, but where this date was not a representative day an earlier date was chosen.

In the case of employees other than wage earners the number thus reported for the representative date has been treated as equivalent to the average for the year, since the number of employees of this class does not ordinarily vary much from month to month. In the case of wage earners the average has been obtained in the manner explained in the next paragraph.

In addition to the more detailed report by sex and age of the number of wage earners on the representative date, a report was obtained of the number employed on the 15th of each month, by sex, without distinction of age. From these figures the average number of wage earners for the year has been calculated by dividing the sum of the numbers reported for the several months by 12. The importance of the industry as an employer of labor is believed to be more accurately measured by this average than by the number employed at any one time or on a given day.

The number of wage earners reported for the representative day, though given in certain tables for each separate industry, is not totaled for all industries combined for any state, because, in view of the variations of date, such a total is not believed to be significant. It would involve more or less duplication of persons working in different industries at different times, would not represent the total number employed in all industries at any one time, and would give an undue weight to seasonal industries as compared with industries in continual operation. This total, however, is shown for the different cities, because the limited area and greater regularity of employment largely overcame the objection incident to its publication for the separate states or the United States.

In order to determine as nearly as possible the age distribution of the average number of wage earners for a given state as a whole, the per cent distribution by age of the wage earners in each industry for December 15, or the nearest representative day, has been calculated from the actual numbers reported for that date. The percentages thus obtained have been applied to the average number of wage earners for the year in that industry to determine the average numbers 16 years and over, and under 16, employed. These calculated averages for the several industries have been added to give the average distribution for each state as a whole and for the entire country.

Salaries and wages.—Under these heads are given the total payments during the year for salaries and wages, respectively. The Census Bureau has not undertaken to calculate the average annual earnings of either salaried employees or wage earners. Such averages would possess little real value, because they would be based on the earnings of employees of both sexes, of all ages, and of widely varying degrees of skill. Furthermore, so far as wage earners are concerned, it would be impossible to calculate accurately even so simple an average as this, since the number of wage earners fluctuates from month to month in every industry, and in some cases to a very great extent. The Census Bureau's figures for wage earners, as already explained, are averages based on the number employed on the 15th of each month, and while representing the number according to the pay rolls to whom wages were paid on that date, no doubt represent a larger number than would be required to perform the work in any industry if all were continuously employed during the year.

Prevailing hours of labor.—No attempt was made to ascertain the number of wage earners working a given number of hours per week. The inquiry called merely for the prevailing practice followed in each establishment. Occasional variations in hours in an establishment from one part of the year to another were disregarded, and no attention was paid to the fact that a few wage earners might have hours differing from those of the majority. All the wage earners of each establishment are therefore counted in the class within which the establishment itself falls. In most establishments, however, practically all the wage earners work the same number of hours, so that the figures give a substantially correct representation of the hours of labor.

Capital.—The instructions on the schedule for securing data relating to capital were as follows:

"The answer should show the total amount of capital, both owned and borrowed, on the last day of the business year reported. All the items of fixed and live capital may be taken at the amounts carried on the books. If land or buildings are rented, that fact should be stated and no value given. If a part of the land or buildings is owned, the remainder being rented, that fact should be so stated and only the value of the owned property given. Do not include securities and loans representing investments in other enterprises."

These instructions were identical with those employed at the censuses of 1914 and 1909. The data compiled in respect to capital, however, at both censuses, as well as at all preceding censuses of manufactures, have been so defective as to be of little value except

as indicating very general conditions. In fact, it has been repeatedly recommended by the census authorities that this inquiry be omitted from the schedule. While there are some establishments whose accounting systems are such that an accurate return for capital could be made, this is not true of the great majority, and the figures therefore do not show the actual amount of capital invested.

Materials.—The statistics as to cost of materials relate to the materials used during the year, which may be more or less than the materials purchased during the year. The term "materials" covers fuel, rent of power and heat, mill supplies, and containers, as well as materials which form a constituent part of the product.

Rent and taxes.—The taxes include certain Federal taxes and state, county, and local taxes. Under "Federal taxes" there are included the internal-revenue tax on manufactures (tobacco, beverages, etc.), excise taxes when included in values reported for products, corporation capital stock tax, and corporation income tax, but not the income tax for individuals and partners.

Value of products.—The amounts given under this heading represent the selling value or price at the factory of all products manufactured during the year, which may differ from the value of the products sold.

Value added by manufacture. The value of products is not always a satisfactory measure of either the absolute or the relative importance of a given industry, because only a part of this value is actually created by the manufacturing processes carried on in the industry itself. Another part, and often by far the larger one, represents the value of the materials used. For many purposes, therefore, the best measure of the importance of an industry, from a manufacturing standpoint, is the value created by the manufacturing operations carried on within the industry. This value is calculated by deducting the cost of the materials used from the value of the products. The figure thus obtained is termed in the census reports "value added by manufacture."

Cost of manufacture and profits.—The census data do not show the entire cost of manufacture, and consequently can not be used for the calculation of profits. No account has been taken of depreciation or interest, rent of offices and buildings other than factory or works, insurance, ordinary repairs, advertising, and other sundry expenses.

Primary horsepower.—This item represents the total primary power generated by the manufacturing establishments plus the amount of power, principally electric, rented from other concerns. It does not cover the power of electric motors taking their current from dynamos driven by primary power machines operated by the same establishment, because the inclusion of such power would obviously result in duplication. The figures for primary horsepower represent the rated capacity of the engines, motors, etc., and not the amount of power in actual daily use.

Fuel.—Statistics of the quantity of fuel used are shown only for anthracite and bituminous coal, coke, fuel oils, gasoline and other volatile oils, and gas—natural and manufactured—and represent the quantity used during the year. As only the principal kinds of fuel are shown, comparison as to the total cost of all fuel is impracticable. A comparison, however, of the total quantities of the several kinds of fuel used in 1919 and 1914 is given.

GENERAL STATISTICS.

General character of the state.—Illinois has a gross area of 56,665 square miles, of which 56,043 represent land surface. The inhabitants of the state in 1900 numbered 4,821,550; in 1910, 5,638,591; and in 1920, 6,485,280. In total population Illinois ranked third among the states in 1920. The number of inhabitants per square mile in 1910 was 100.6, the corresponding figure for 1920 being 115.7.

In 1920 there were 44 cities in the state having more than 10,000 inhabitants (see Table 6). The combined population of these cities in that year was 3,808,158, which formed 58.7 per cent of the total for Illinois. Of the total value of the manufactured products for the state in 1919, these cities reported 84.3 per cent.

Importance and growth of manufactures (Table 1).—The large increases in salaries and wages, cost of materials, and value of products from 1914 to 1919, as presented in Table 1, are largely due to the changes in industrial conditions brought about by the World War, and therefore can not properly be used to measure the growth of manufactures during this census period. The increases shown, however, in the number of wage earners and horsepower are indicative of a decided growth in the manufacturing activities of the state. The increase in "Rent and taxes" from 1914 to 1919 in Illinois is smaller than for most other states, which may be accounted for by the fact that there was a decrease of \$41,925,107 in rent and taxes in the distilled and malt liquor industries during this five-year period.

Statistics for the state, by counties (Table 2).—Figures are not available for comparison of the totals for the 102 counties in 1919 with those for prior censuses.

Principal industries, ranked by value of products (Table 3).—The ranking of industries by value of products is not always satisfactory as indicating their importance from a manufacturing standpoint. In many instances their rank would change materially if based upon the average number of wage earners or value added by manufacture.

Persons engaged in manufacturing industries (Table 4).—The age classification in this and other tables is an estimate obtained by the method described in the "Explanation of terms." The classification by sex, for 1919, was reported separately, but for 1914 and 1909 was obtained in the same manner as the distribution by age. Figures for individual industries will be found in Table 43.

Average number of wage earners for selected industries (Table 5).—The industries covered by this table are those which employed more than 2,000 wage earners in 1919, and for which statistics can be shown without

the possibility of disclosing the operations of individual establishments.

Average number of wage earners, by sex and age, and value of products for cities of 10,000 inhabitants or more (Table 6).—General increases from 1914 to 1919 are shown in practically all of the details for the cities for which comparative figures are available, except for Peoria. The decrease in that city was due to the great falling off in the manufacture of distilled liquors, largely the most important industry in the city in 1914.

Wage earners, by months (Table 7).—The statistics for wage earners in this table are intended to show the steadiness of employment, or the reverse, in accordance with the industrial conditions existing during the several census years.

Wage earners, by months, for selected industries and for cities (Table 8).—In addition to the number of wage earners employed by months for selected industries, similar data are given for males and females for all industries combined, and also for the cities having more than 10,000 inhabitants, and for several industries showing a large proportion of females. The cities combined reported a slightly larger proportion of female wage earners than the state as a whole, 20.4 per cent, as compared with 19.3 per cent for the state.

Prevailing hours of labor (Table 9).—Since 1914 there has been a marked shortening of the working day in Illinois. In that year 15.7 per cent of the wage earners were included in the group "48 and under," as against 54 per cent in 1919. In 1914 the "60" and "Over 60" groups constituted 22.2 per cent of the total wage earners, as compared with 6.1 per cent in 1919.

Size of establishments, by average number of wage earners, for selected industries and for cities (Table 10).—The predominance of the number of small establishments, when based on the number of wage earners employed, is evidenced in this table by the fact that of the total number of establishments in the state, 93.7 per cent were in the several classes having fewer than 101 wage earners, while such establishments employed but 28.3 per cent of the total number of wage earners. On the other hand, the establishments employing an average of more than 100 wage earners represented only 6.3 per cent of the total number of manufacturing establishments in the state, but reported 71.7 per cent of the total number of wage earners.

Size of establishments, by value of products (Table 11).—At the censuses of 1909 and 1914 establishments with products valued at "\$100,000 to \$1,000,000" constituted one group, but at the census of 1919 this group was subdivided into "\$100,000 to \$500,000"

and "\$500,000 to \$1,000,000." Separate figures for the number of establishments and value of products have been compiled, however, from the returns for 1914. The table, therefore, gives combined figures for these two groups for all items for 1909, and for the average number of wage earners and value added by manufacture for 1914.

Size of establishments, by value of products, for selected industries (Table 12).—In the preparation of this table it was necessary in some instances to combine the establishments of one group of the industry with those of some other group of that industry, to avoid the possibility of disclosing the operations of individual establishments.

Size of establishments, by value of products, for cities of 10,000 inhabitants or more (Table 13).—This table strikingly illustrates the fact that the number of establishments of itself is no real index of manufacturing activities.

Character of ownership (Table 14).—The preponderance of corporate ownership is clearly brought out in this table. Although corporations owned but 37.1 per cent of the number of establishments in the state in 1919, they reported 90.3 per cent of the average number of wage earners and 92.2 per cent of the total value of products. During the five-year period 1914 to 1919 the average number of wage earners in corporations increased 152,909, or 35 per cent, and the value of products, \$2,982,789,172, or 147.5 per cent.

Manufactures, by population groups, in cities of 10,000 inhabitants or more (Table 15).—This table shows that the combined number of establishments in these 44 cities in 1919 represented 75.7 per cent of the total in the state. They reported in that year 85.1 per cent of the average number of wage earners and 84.3 per cent of the total value of products. The proportions for the cities were somewhat greater in 1919 than in 1914.

Principal industries in cities of 50,000 inhabitants or more, with per cent of total for state (Table 16).—

This table includes all industries in Chicago having products of \$10,000,000 and over, and in East St. Louis, Peoria, Rockford, and Springfield having products of \$500,000 and over, the figures being given for those industries which can be shown without disclosing the operations of individual establishments. It is deemed of first importance to present the statistics of the state as a whole for all industries which can be shown without disclosing the operations of individual establishments. In doing so, however, it sometimes happens that quite important industries can not be shown in the city, since to do so might disclose the operations of establishments located outside, by the simple method of deducting the totals shown for the industry in the city from that given in the detailed state table.

Number and horsepower of types of prime movers (Table 17).—The total horsepower reported in 1919, as compared with that for 1914, shows an increase of 354,988 horsepower, or 27.2 per cent. This increase was chiefly due to the gain in rented power, 312,041 horsepower, or 109.8 per cent. The owned power increased only 42,947 horsepower, or 4.2 per cent. That is, of the total increase during this five-year period, 87.9 per cent was in rented power and 12.1 per cent in owned.

Fuel consumed (Table 18).—This table shows the principal kinds of fuel used by the manufacturing plants in the state in 1919 and 1914 and gives separately for 1919 the amounts consumed by a number of important industries which use considerable quantities of fuel. The consumption of fuel in Chicago is significant of the city's importance in connection with the manufactures of the state. Of the several kinds of fuel shown in Table 18, the proportions used in Chicago in 1919 were as follows: Anthracite coal, 61.3 per cent; bituminous coal, 40.6 per cent; coke, 74.8 per cent; fuel oils, 56.4 per cent; gasoline and other volatile oils, 34.3 per cent; and gas, 76.4 per cent.

TABLE 1.—COMPARATIVE SUMMARY: 1919, 1914, 1909, 1904, AND 1899.

	MANUFACTURING INDUSTRIES.					PER CENT OF INCREASE. ¹			
	1919	1914	1909	1904	1899	1914-1919	1909-1914	1904-1909	1899-1904
Number of establishments.....	18,593	18,388	18,026	14,921	14,374	1.1	2.0	20.8	3.8
Persons engaged.....	804,805	617,927	561,044	447,947	(2)	30.2	10.1	25.2	.....
Proprietors and firm members.....	15,282	15,354	17,357	13,990	(3)	-3.6	-8.7	24.1	.....
Salaried employees.....	130,409	95,130	77,923	54,521	40,964	43.4	22.1	42.9	33.1
Wage earners (average number).....	653,114	506,943	465,764	379,436	332,871	28.8	8.8	22.8	14.0
Primary horsepower.....	1,660,918	1,305,930	1,013,071	741,555	559,347	27.2	28.9	36.6	32.6
Capital.....	\$3,366,452,969	\$1,943,835,846	\$1,548,170,701	\$975,844,799	\$732,829,771	73.2	25.6	58.6	33.2
Salaries and wages.....	1,075,703,708	469,387,910	304,768,119	268,965,146	199,653,424	129.2	28.7	35.6	34.7
Salaries.....	274,616,349	128,477,585	91,449,114	60,559,678	40,549,245	113.7	40.5	51.0	49.4
Wages.....	801,087,359	340,910,325	273,319,005	208,405,468	159,104,179	135.0	24.7	31.1	31.0
Paid for contract work.....	32,006,039	18,864,010	13,625,794	11,473,474	(2)	69.7	38.4	18.8	.....
Rent and taxes.....	156,959,133	75,935,987	68,176,760	11,836,006	(2)	106.7	11.4	.....	.....
Cost of materials.....	3,488,270,446	1,340,183,407	1,160,926,600	840,057,316	681,450,122	160.3	15.4	38.2	23.3
Value of products.....	5,425,244,694	2,247,322,819	1,919,276,594	1,410,342,129	1,120,868,308	141.4	17.1	36.1	25.8
Value added by manufacture.....	1,936,974,248	907,139,412	758,349,904	570,284,813	439,418,186	113.5	19.6	33.0	29.6

¹ A minus sign (—) denotes decrease.

² Figures not available.

³ Exclusive of internal revenue.

⁴ Value of products less cost of materials.

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TABLE 2.—STATISTICS FOR THE STATE, BY COUNTIES: 1919.

COUNTY.	Number of establishments.	WAGE EARNERS.		Rent and taxes.	Cost of materials.	Value of products.	Value added by manufacture.	Primary horse-power.
		Average number.	Wages.					
The state.....	18,593	653,114	\$801,087,359	\$156,959,133	\$3,488,270,446	\$5,425,244,604	\$1,936,974,248	1,660,918
Adams.....	217	5,422	5,196,925	1,310,306	10,480,542	30,631,601	14,151,059	14,952
Alexander.....	72	2,393	2,270,631	197,306	9,620,517	14,211,398	4,590,881	8,826
Bond.....	19	352	225,733	84,956	1,892,696	2,640,286	747,620	577
Boone.....	33	1,009	1,547,668	165,884	5,648,268	9,024,123	3,375,855	2,955
Brown.....	18	30	24,836	8,023	115,636	214,299	98,603	156
Bureau.....	62	1,263	1,273,557	41,369	5,807,939	7,315,458	1,507,469	4,876
Calhoun.....	16	24	28,536	1,331	94,980	173,012	78,032	63
Carroll.....	46	1,323	1,424,792	36,003	3,263,373	5,212,232	1,948,859	729
Cass.....	12	81	51,709	7,162	4,251,770	4,412,406	160,726	731
Champaign.....	201	1,770	2,029,313	168,484	3,867,510	7,988,290	4,120,780	4,992
Christian.....	27	202	189,177	17,556	1,939,431	2,318,794	379,363	1,076
Clark.....	45	104	86,181	9,304	901,085	1,212,156	311,071	679
Clay.....	40	320	302,119	21,825	523,488	1,257,144	733,656	853
Clinton.....	61	187	188,085	98,685	3,559,846	4,323,649	763,803	1,931
Coles.....	115	1,313	1,591,413	60,908	2,149,030	4,710,094	2,561,064	2,192
Cook.....	11,289	442,193	558,872,224	113,477,037	2,516,080,373	3,908,354,211	1,392,273,838	955,516
Crawford.....	54	364	401,890	41,505	1,989,048	2,932,754	943,700	1,212
Chamberland.....	14	41	39,578	2,532	184,578	247,984	83,406	133
De Kalb.....	77	2,245	2,053,653	364,945	10,374,935	10,736,192	6,361,257	6,513
De Witt.....	28	537	819,365	10,621	898,369	1,921,111	1,022,742	440
Douglas.....	82	187	208,941	10,680	542,402	953,266	410,864	682
Dr Page.....	104	1,303	1,782,087	178,538	2,663,284	5,892,404	3,229,120	2,727
Edgar.....	74	723	567,592	63,556	2,513,286	4,501,271	1,987,985	1,800
Edwards.....	26	154	140,171	4,457	347,712	606,447	258,735	1,464
Effingham.....	49	280	191,265	16,609	1,515,262	2,132,621	617,359	882
Fayette.....	44	528	433,228	17,877	1,804,327	2,600,881	736,554	1,665
Ford.....	32	230	203,235	14,557	807,201	1,343,110	535,915	557
Franklin.....	42	175	190,210	20,691	608,817	1,031,778	422,961	1,028
Fulton.....	68	1,370	1,185,591	371,957	2,700,994	4,968,680	2,201,686	4,359
Gallatin.....	18	32	26,980	1,585	148,014	215,205	67,191	391
Greene.....	36	484	565,631	20,963	681,138	1,617,978	936,840	1,606
Grundy.....	45	408	427,551	119,176	4,633,569	6,018,961	1,385,392	2,174
Hamilton.....	18	32	23,530	3,583	405,310	489,396	84,080	387
Hancock.....	53	307	267,154	38,936	1,249,957	1,882,074	632,117	1,041
Hardin.....	5	13	6,230	1,695	158,363	197,358	38,995	115
Henderson.....	14	91	71,648	3,595	78,291	205,737	127,446	375
Henry.....	81	4,337	5,610,528	816,641	9,101,841	19,127,220	10,025,885	9,964
Iroquois.....	64	250	266,673	58,763	1,480,308	2,257,926	777,618	1,475
Jackson.....	57	1,048	1,767,847	158,682	5,026,250	8,214,484	3,188,234	5,551
Jasper.....	36	55	47,655	4,179	252,613	408,441	155,828	396
Jefferson.....	42	1,654	1,659,698	72,608	11,069,558	17,026,969	6,857,441	2,085
Jersey.....	23	445	301,431	23,702	1,785,624	2,097,036	851,412	1,149
Jo Daviess.....	50	457	392,494	51,233	1,881,396	2,754,032	872,630	1,204
Johnson.....	44	591	460,601	50,104	1,440,695	2,910,592	1,476,297	1,402
Kane.....	236	16,669	18,017,369	3,658,080	34,713,081	75,275,468	40,562,387	26,964
Kankakee.....	90	3,149	3,213,981	435,353	6,357,751	12,634,174	6,276,423	9,671
Kendall.....	11	216	231,147	83,453	287,569	1,277,634	988,085	921
Knox.....	111	2,593	2,815,802	228,770	7,167,016	12,578,872	5,411,860	6,312
La Salle.....	289	9,414	9,710,209	1,634,158	24,619,255	48,045,705	23,420,450	57,702
Lake.....	155	6,028	7,478,542	1,073,826	26,114,880	44,492,933	18,378,053	28,859
Lawrence.....	52	953	1,175,293	112,980	17,261,514	19,946,934	2,685,420	3,900
Lee.....	61	1,549	1,513,728	331,112	5,521,687	13,080,036	4,558,349	7,254
Livingston.....	96	926	898,986	99,257	4,346,947	2,273,947	2,072,537	3,183
Logan.....	56	240	181,745	36,398	469,922	958,430	498,508	729
McDonough.....	70	779	703,145	118,419	1,526,317	3,080,612	1,554,295	2,179
McHenry.....	62	2,261	2,256,355	209,169	5,051,448	11,637,410	5,685,962	3,281
McLean.....	120	3,052	3,662,524	449,958	6,839,763	13,623,749	6,783,986	6,936
Macoupin.....	120	5,888	7,197,644	1,264,843	25,067,210	36,385,631	14,318,421	17,451
Madison.....	83	254	252,603	20,051	1,378,212	2,074,086	695,874	784
Marion.....	238	16,651	21,672,993	9,921,769	122,039,259	178,994,722	56,955,463	60,590
Marshall.....	77	1,301	1,413,582	53,126	4,354,310	2,200,100	2,154,219	2,193
Mason.....	28	239	191,538	43,602	740,363	1,384,226	643,803	603
Massac.....	32	283	278,368	68,498	705,193	1,457,424	752,231	1,321
Menard.....	37	703	671,507	118,202	2,045,184	3,414,973	1,369,789	2,186
Mercer.....	23	65	46,471	4,417	172,718	267,610	94,892	503
Monroe.....	30	283	260,545	17,240	480,949	962,477	481,528	1,073
Montgomery.....	28	304	216,739	45,737	2,531,553	2,966,829	435,276	1,644
Morgan.....	69	1,927	1,967,351	161,404	7,454,696	11,253,181	3,798,515	5,224
Moultrie.....	18	120	958,851	76,273	6,258,168	7,282,711	2,004,543	1,970
Ogle.....	42	835	822,747	5,166	99,558	197,934	98,376	139
Peoria.....	295	9,313	10,001,414	1,484,704	46,610,620	71,908,042	25,292,522	40,942
Perry.....	32	184	168,549	33,438	1,310,655	1,772,435	461,780	1,445
Platt.....	24	120	89,707	267,747	788,128	2,350,613	1,562,485	209
Pike.....	41	128	104,692	30,166	1,132,881	1,504,199	371,318	664
Pope.....	15	32	30,395	1,224	128,174	184,768	58,594	558
Pulaski.....	24	844	892,019	85,996	971,601	2,397,524	1,425,623	2,689
Putnam.....	8	18	15,581	754	38,537	100,353	61,816	126
Randolph.....	56	692	488,837	124,934	8,608,076	10,206,298	1,600,222	2,569
Richland.....	39	193	98,316	14,760	810,328	1,202,174	391,846	785
Rock Island.....	177	13,625	18,343,936	2,683,321	47,043,751	86,735,641	39,691,890	33,873
St. Clair.....	375	21,459	25,459,959	2,644,061	233,672,041	281,455,508	47,783,467	74,440
Saline.....	30	289	378,705	20,618	1,065,669	1,647,223	581,554	1,449
Sangamon.....	213	5,388	4,992,638	788,522	12,452,197	22,870,698	10,418,601	7,931
Schuyler.....	14	109	151,926	3,274	127,609	325,336	197,727	125

MANUFACTURES—ILLINOIS.

TABLE 2.—STATISTICS FOR THE STATE, BY COUNTIES: 1919—Continued.

COUNTY.	Number of establishments.	WAGE EARNERS.		Rent and taxes.	Cost of materials.	Value of products.	Value added by manufacture.	Primary horse-power.
		Average number.	Wages.					
Scott.....	16	56	\$48,024	\$1,739	\$78,164	\$180,720	\$102,558	192
Shelby.....	35	69	63,007	6,872	298,223	471,557	173,334	304
Stark.....	24	93	84,265	6,248	316,650	577,649	260,999	199
Stephenson.....	112	3,242	3,471,888	492,357	11,803,785	19,586,853	7,783,068	7,732
Tazewell.....	88	2,991	3,682,765	436,532	23,162,902	40,389,561	17,226,659	9,359
Union.....	39	219	128,879	13,870	762,858	1,105,207	342,849	1,180
Vermillion.....	193	5,215	6,108,605	592,214	16,464,592	28,129,475	11,664,883	16,093
Wabash.....	29	576	660,320	85,822	3,971,079	5,423,876	1,452,797	3,516
Warren.....	47	684	550,191	50,332	1,715,777	2,925,609	1,209,832	2,529
Washington.....	33	107	95,288	11,639	2,383,251	2,785,955	402,704	1,385
Wayne.....	32	440	203,428	23,769	554,716	1,214,914	660,198	792
White.....	37	79	56,255	9,332	872,017	1,232,205	360,188	1,070
Whiteside.....	71	2,597	2,899,966	735,593	10,288,920	17,968,150	7,679,230	9,266
Will.....	207	12,707	17,189,691	4,452,632	60,278,851	96,956,717	36,677,866	90,703
Williamson.....	34	355	339,695	36,415	1,338,674	2,241,625	852,951	1,847
Winnebago.....	337	15,825	19,216,882	3,000,790	40,089,086	81,037,019	40,997,933	35,453
Woodford.....	34	203	189,012	46,606	565,605	1,094,160	523,555	846

TABLE 3.—PRINCIPAL INDUSTRIES, RANKED BY VALUE OF PRODUCTS: 1919.

INDUSTRY.	Number of establishments.	WAGE EARNERS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.		INDUSTRY.	Number of establishments.	WAGE EARNERS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.	
		Average number.	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution.			Average number.	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution.
All industries.....	18,593	663,114	100.0	\$5,425,245	100.0	\$1,936,974	100.0	Babbitt metal and solder.....	12	728	0.1	\$25,896	0.5	\$3,774	0.2
Slaughtering and meat packing.....	72	54,179	8.3	1,234,103	23.7	141,153	7.3	Soap.....	29	2,270	0.3	25,734	0.5	6,250	0.3
Foundry and machine-shop products.....	870	45,879	7.0	235,404	4.3	137,061	7.1	Patent medicines and compounds.....	208	1,599	0.2	25,395	0.5	14,141	0.7
Clothing, men's.....	502	32,896	5.0	197,617	3.7	106,369	5.5	Brass, bronze, and copper products.....	90	3,174	0.5	25,107	0.5	9,417	0.5
Iron and steel, steel works and rolling mills.....	32	20,177	3.1	173,345	3.3	73,025	3.8	Smelting and refining, zinc.....	7	4,224	0.6	24,954	0.5	6,501	0.3
Agricultural implements.....	68	22,548	3.5	128,285	2.4	63,125	3.3	Stoves and hot-air furnaces.....	56	4,880	0.7	22,523	0.4	14,012	0.7
Cars, steam-railroad, not including operations of railroad companies.....	19	13,775	2.1	125,218	2.3	42,790	2.2	Hardware.....	84	4,914	0.8	22,443	0.4	13,767	0.7
Electrical machinery, apparatus, and supplies.....	161	27,290	4.2	119,528	2.2	67,902	3.5	Chemicals.....	33	3,004	0.5	22,061	0.4	10,058	0.5
Flour-mill and gristmill products.....	322	2,740	0.4	116,563	2.2	13,397	0.7	Knit goods.....	58	5,095	0.8	20,460	0.4	8,759	0.5
Printing and publishing, book and job.....	1,240	21,639	3.3	110,886	2.1	63,366	3.5	Millinery and lace goods, not elsewhere specified.....	121	4,830	0.7	19,849	0.4	9,119	0.5
Cars and general shop construction and repairs by steam-railroad companies.....	133	40,219	6.2	103,219	1.9	63,418	3.3	Pickles, preserves, and sauces.....	68	2,255	0.3	19,046	0.4	7,005	0.4
Bread and other bakery products.....	2,345	12,418	1.9	102,664	1.9	41,067	2.1	Boxes, wooden packing, except cigar boxes.....	63	4,524	0.7	18,857	0.3	8,492	0.4
Food preparations, not elsewhere specified.....	134	4,061	0.6	94,240	1.7	13,809	0.7	Glass.....	14	4,065	0.6	18,245	0.3	12,635	0.7
Printing and publishing, newspapers and periodicals.....	1,204	10,120	1.6	88,946	1.6	58,961	3.1	Brick and tile, terra-cotta, and fire-clay products.....	144	5,627	0.9	17,564	0.3	12,734	0.7
Automobiles.....	25	3,507	0.5	77,018	1.4	15,987	0.8	Coke, not including gas-house coke.....	4	1,396	0.2	16,837	0.3	4,209	0.2
Confectionery and ice cream.....	462	8,779	1.3	73,097	1.4	32,001	1.7	Baking powders and yeast.....	14	922	0.1	15,682	0.3	6,743	0.3
Clothing, women's.....	398	10,278	1.6	68,044	1.3	26,909	1.4	Iron and steel forgings, not made in steel works or rolling mills.....	24	2,328	0.4	15,207	0.3	7,132	0.4
Iron and steel, blast furnaces.....	5	2,129	0.3	64,762	1.2	13,236	0.7	Machine tools.....	28	3,273	0.5	15,008	0.3	10,253	0.5
Petroleum, refining.....	13	2,448	0.4	64,549	1.2	10,495	0.5	Instruments, professional and scientific.....	33	3,621	0.6	14,881	0.3	8,898	0.5
Furniture.....	286	12,294	1.9	60,771	1.1	32,580	1.7	Washing machines and clothes wringers.....	21	1,747	0.3	14,436	0.3	5,861	0.3
Leather, tanned, curried, and finished.....	29	4,434	0.7	60,324	1.1	17,671	0.9	Paper and wood pulp.....	19	1,831	0.3	13,357	0.3	5,144	0.3
Engines, steam, gas, and water.....	25	8,645	1.3	45,741	0.8	22,097	1.1	Automobile repairing.....	785	3,120	0.5	13,951	0.3	7,849	0.4
Oleomargarine and other butter substitutes.....	9	1,311	0.2	44,256	0.8	7,013	0.4	Copper, tin, and sheet-iron work.....	391	2,232	0.3	13,208	0.2	7,062	0.4
Steam fittings and steam and hot-water heating apparatus.....	28	9,928	1.5	43,941	0.8	20,480	1.1	Carriages and wagons, including repairs.....	99	2,303	0.4	12,997	0.2	5,888	0.3
Paints.....	50	2,640	0.4	43,062	0.8	13,436	0.7	Phonographs and graphophones.....	36	1,919	0.3	12,842	0.2	5,745	0.3
Tinware, not elsewhere specified.....	28	5,927	0.9	42,833	0.8	13,671	0.7	Tools, not elsewhere specified.....	114	2,998	0.5	12,043	0.2	7,685	0.4
Boots and shoes.....	51	7,684	1.2	39,402	0.7	14,184	0.7	Tobacco, cigars and cigarettes.....	1,182	3,363	0.5	11,827	0.2	6,490	0.3
Coffee and spice, roasting and grinding.....	32	1,205	0.2	38,189	0.7	8,499	0.4	Varnishes.....	33	538	0.1	11,720	0.2	3,850	0.2
Gas, illuminating and heating.....	70	4,430	0.7	36,930	0.7	19,038	1.0	Cooperage.....	46	1,447	0.2	11,577	0.2	3,904	0.2
Lumber, planing-mill products, not including planing mills connected with sawmills.....	269	5,147	0.8	34,589	0.6	13,909	0.7	Window shades and fixtures.....	59	1,344	0.2	11,261	0.2	3,292	0.2
Musical instruments, pianos.....	33	6,991	1.1	30,848	0.6	17,893	0.9	Smelting and refining, not from the ore.....	17	479	0.1	11,233	0.2	1,917	0.1
Condensed milk.....	38	1,111	0.2	30,438	0.6	5,761	0.3	Plumbers' supplies, not elsewhere specified.....	18	2,096	0.3	10,197	0.2	5,501	0.3
Wire.....	10	2,775	0.4	29,855	0.6	11,408	0.6	Ice, manufactured.....	154	1,681	0.3	10,093	0.2	7,579	0.4
Boxes, paper and other, not elsewhere specified.....	87	5,923	0.9	28,893	0.5	13,337	0.7	Sausage, not made in slaughtering and meat-packing establishments.....	54	796	0.1	10,064	0.2	2,551	0.1
Automobile bodies and parts.....	204	5,298	0.8	27,865	0.5	14,943	0.8	Corsets.....	22	2,273	0.3	9,232	0.2	4,529	0.2
Structural ironwork, not made in steel works or rolling mills.....	115	3,790	0.6	27,588	0.5	11,016	0.6	Stamped and enameled ware, not elsewhere specified.....	22	2,450	0.4	9,216	0.2	4,733	0.2
Roofing materials.....	25	2,722	0.4	27,561	0.5	10,043	0.5	Glue, not elsewhere specified.....	11	1,583	0.2	9,157	0.2	4,218	0.2
Liquors, malt.....	61	2,796	0.4	27,323	0.5	20,184	1.0	Stationary goods, not elsewhere specified.....	32	1,668	0.3	8,951	0.2	5,720	0.3
Butter.....	129	813	0.1	26,376	0.5	2,638	0.1	Canning and preserving, fruits and vegetables.....	59	1,405	0.2	8,846	0.2	3,416	0.2
								Perfumery and cosmetics.....	75	710	0.1	8,776	0.2	5,354	0.3
								Mattresses and spring beds, not elsewhere specified.....	72	1,571	0.2	8,725	0.2	3,878	0.2

TABLE 3.—PRINCIPAL INDUSTRIES, RANKED BY VALUE OF PRODUCTS: 1919—Continued.

INDUSTRY.	Number of establishments.	WAGE EARNERS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.		INDUSTRY.	Number of establishments.	WAGE EARNERS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.	
		Average number.	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution.			Average number.	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution.
Furnishing goods, men's.....	34	1,566	0.2	\$8,535	0.2	\$3,781	0.2	Gloves and mittens, leather.....	31	1,239	0.2	\$5,423	0.1	\$2,349	0.1
Cement.....	5	1,123	0.2	8,283	0.2	4,308	0.2	Mineral and soda waters.....	275	719	0.1	5,232	0.1	2,844	0.1
Signs and advertising novelties..	109	1,883	0.3	8,247	0.2	5,221	0.3	Lamps and reflectors.....	27	1,190	0.2	5,075	0.1	2,596	0.1
Fur goods.....	123	670	0.1	8,113	0.1	3,501	0.2	Sulphuric, nitric, and mixed acids.....	3	875	0.1	5,057	0.1	2,829	0.1
Malt.....	10	378	0.1	8,020	0.1	1,782	0.1	Druggists' preparations.....	31	503	0.1	4,889	0.1	2,775	0.1
Bags, other than paper, not including bags made in textile mills.....	9	381	0.1	7,934	0.1	2,533	0.1	Motorcycles, bicycles, and parts.	7	1,082	0.2	4,852	0.1	2,879	0.1
Cars and general shop construction and repairs by electric-railroad companies.....	49	3,151	0.5	7,478	0.1	4,681	0.2	Liquors, distilled, grain alcohol.	6	327	0.1	4,821	0.1	1,039	0.1
Bookbinding and blank-book making.....	113	2,395	0.4	7,478	0.1	4,839	0.3	Engraving, steel and copper plate, including plate printing.	33	1,189	0.2	4,794	0.1	3,223	0.2
Marble and stone work.....	247	1,081	0.2	7,443	0.1	3,931	0.2	Poultry, killing and dressing, not done in slaughtering and meat-packing establishments..	23	182	(1)	4,733	0.1	984	0.1
Cash registers and calculating machines.....	11	1,855	0.3	7,354	0.1	5,800	0.3	Windmills.....	8	734	0.1	4,715	0.1	2,576	0.1
Trunks and valises.....	61	1,181	0.2	7,293	0.1	3,439	0.2	Cleansing and polishing preparations.....	61	361	0.1	4,702	0.1	2,401	0.1
Sewing machines and attachments.....	5	1,960	0.3	7,187	0.1	4,790	0.2	Fancy articles, not elsewhere specified.....	54	907	0.1	4,679	0.1	2,205	0.1
Looking-glass and picture frames	60	1,944	0.3	7,180	0.1	4,417	0.2	Typewriters and supplies.....	11	1,629	0.2	4,597	0.1	3,866	0.2
Saddlery and harness.....	183	887	0.1	7,032	0.1	2,502	0.1	Musical instruments, piano and organ materials.....	9	1,311	0.2	4,538	0.1	2,297	0.1
Wirework, not elsewhere specified.....	49	821	0.1	6,958	0.1	2,887	0.1	Shirts.....	30	842	0.1	4,199	0.1	1,838	0.1
Springs, steel, car and carriage not made in steel works or rolling mills.....	12	1,104	0.2	6,937	0.1	3,212	0.2	Hats and caps, other than felt, straw, and wool.....	47	679	0.1	4,101	0.1	1,842	0.1
Gas and electric fixtures.....	40	1,448	0.2	6,757	0.1	3,459	0.2	Photo-engraving.....	31	962	0.1	4,160	0.1	3,490	0.2
Screws, machine.....	24	1,811	0.3	6,617	0.1	4,019	0.2	Rubber tires, tubes, and rubber goods, not elsewhere specified.	20	650	0.1	4,135	0.1	2,151	0.1
Cotton goods.....	7	1,277	0.2	6,484	0.1	1,976	0.1	Stoves, gas and oil.....	13	632	0.1	4,016	0.1	1,842	0.1
Envelopes.....	17	1,394	0.2	6,431	0.1	3,105	0.2	Leather goods, not elsewhere specified.....	41	687	0.1	3,922	0.1	1,643	0.1
House-furnishing goods, not elsewhere specified.....	51	843	0.1	6,337	0.1	2,363	0.1	Upholstering materials, not elsewhere specified.....	7	734	0.1	3,901	0.1	2,114	0.1
Lumber and timber products.....	163	1,616	0.2	6,330	0.1	3,359	0.2	Cutlery and edge tools.....	18	964	0.1	3,849	0.1	2,497	0.1
Fertilizers.....	12	953	0.1	6,180	0.1	2,437	0.1	Explosives.....	9	454	0.1	3,780	0.1	1,514	0.1
Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills.....	13	906	0.1	6,109	0.1	3,040	0.2	Dairymen's, poultrymen's, and appliers' supplies.....	26	609	0.1	3,508	0.1	2,183	0.1
Jewelry.....	78	992	0.2	6,082	0.1	3,445	0.2	Labels and tags.....	13	694	0.1	3,428	0.1	2,108	0.1
Cordials and flavoring sirups.....	10	81	(1)	6,063	0.1	2,037	0.1	Brooms.....	82	692	0.1	3,423	0.1	1,450	0.1
Lithographing.....	31	1,083	0.2	6,015	0.1	3,771	0.2	Belted, leather.....	9	192	(1)	3,315	0.1	855	(1)
Oil, not elsewhere specified.....	16	101	(1)	5,865	0.1	1,920	0.1	Stereotyping and electrotyping..	26	706	0.1	3,284	0.1	2,646	0.1
Coffins, burial cases, and undertakers' goods.....	25	1,016	0.2	5,787	0.1	3,174	0.2	Engraving and die-sinking.....	36	713	0.1	3,236	0.1	2,002	0.1
Wall paper, not made in paper mills.....	9	954	0.1	5,708	0.1	2,380	0.1	Scales and balances.....	16	699	0.1	3,207	0.1	1,934	0.1
Paper goods, not elsewhere specified.....	20	543	0.1	5,589	0.1	2,588	0.1	Wood preserving.....	7	518	0.1	3,143	0.1	1,417	0.1
								Minerals and earths, ground or otherwise treated.....	26	694	0.1	3,137	0.1	1,993	0.1
								Paving materials.....	32	959	0.1	3,093	0.1	2,086	0.1
								All other industries ¹	1,934	57,159	8.8	409,712	8.7	195,294	10.1

¹ Less than one-tenth of 1 per cent.

² Among the industries for which statistics can not be shown separately without the possibility of disclosing the operations of individual establishments are a number having products in excess of some for which figures are shown in the table. Of these industries the most important are the following: "Ammunition"; "bags, paper, not including bags made in paper mills"; "boot and shoe cut stock"; "chewing gum"; "clocks"; "cordage and twine"; "dyestuffs and extracts—natural"; "glucose and starch"; "grease and tallow, not including lubricating greases"; "iron and steel, wrought pipe"; "oil and cake, cottonseed"; "oil, linseed"; "pencils, lead"; "shipbuilding, steel"; "silk goods, including throwsters"; "smelting and refining, lead"; "soda-water apparatus"; "surgical appliances"; "suspenders, garters, and elastic woven goods"; "tobacco, chewing and smoking, and snuff"; "watchcases"; "watches"; and "wool scouring."

TABLE 4.—PERSONS ENGAGED IN MANUFACTURING INDUSTRIES: 1919, 1914, AND 1909.

CLASS.	Census year.	Total.	Male.	Female.	PER CENT OF TOTAL.		CLASS.	Census year.	Total.	Male.	Female.	PER CENT OF TOTAL.	
					Male.	Female.						Male.	Female.
All classes.....	1919	804,805	639,101	165,704	79.4	20.6	Clerks and other subordinate salaried employees.....	1919	102,131	64,397	37,734	63.1	36.9
	1914	617,027	510,633	107,094	82.7	17.3		1914	75,979	56,000	19,979	73.7	26.3
	1909	561,044	465,139	95,905	82.9	17.1		1909	61,069	46,390	15,279	75.2	24.8
Proprietors and officials.....	1919	49,560	47,499	2,061	95.8	4.2	Wage earners (average number).....	1919	653,114	527,205	125,909	80.7	19.3
	1914	35,005	33,768	1,237	96.5	3.5		1914	506,943	421,065	85,878	83.1	16.9
	1909	33,611	32,567	1,044	96.9	3.1		1909	465,764	386,182	79,582	82.9	17.1
Proprietors and firm members.....	1919	15,282	14,609	673	95.6	4.4	16 years of age and over.....	1919	644,649	522,687	121,962	81.1	18.9
	1914	15,854	15,180	674	95.7	4.3		1914	501,251	418,363	82,888	83.5	16.5
	1909	17,357	16,725	632	96.4	3.6		1909	458,847	382,691	76,156	83.4	16.6
Salaried officers of corporations.....	1919	11,024	10,485	539	95.1	4.9	Under 16 years of age.....	1919	8,465	4,518	3,947	53.4	46.6
	1914	7,980	7,714	266	96.7	3.3		1914	5,692	2,702	2,990	47.5	52.5
	1909	6,764	6,548	216	96.8	3.2		1909	6,917	3,491	3,426	50.5	49.5
Superintendents and managers.....	1919	23,254	22,405	849	96.3	3.7							
	1914	11,171	10,874	297	97.3	2.7							
	1909	9,490	9,294	196	97.9	2.1							

MANUFACTURES—ILLINOIS.

TABLE 5.—AVERAGE NUMBER OF WAGE EARNERS FOR SELECTED INDUSTRIES, WITH PER CENT, BY SEX AND AGE: 1919 AND 1914.

INDUSTRY.	Cen- sus year.	Wage earners (aver- age num- ber).	PER CENT OF TOTAL.			INDUSTRY.	Cen- sus year.	Wage earners (aver- age num- ber).	PER CENT OF TOTAL.		
			16 years of age and over.		Un- der 16 years of age.				16 years of age and over.		Un- der 16 years of age.
			Male.	Fe- male.					Male.	Fe- male.	
All industries.....	1919 1914 1909	653,114 506,943 465,704	80.0 82.5 82.2	18.7 16.4 16.3	1.3 1.1 1.5	Hardware.....	1919 1914	4,914 4,035	84.5 89.4	14.1 9.5	1.4 1.1
Agricultural implements.....	1919 1914	22,548 19,556	97.8 98.9	2.0 1.0	0.1 0.1	Instruments, professional and scientific.....	1919 1914	3,621 1,104	78.1 75.9	21.6 23.4	0.4 0.7
Automobile bodies and parts.....	1919 1914	5,298 1,236	93.1 97.8	6.6 2.1	0.3 0.1	Iron and steel, blast furnaces.....	1919 1914	2,129 1,450	99.9 100.0	(¹)	.....
Automobiles.....	1919 1914	3,507 1,309	98.4 99.5	1.4 0.5	0.2	Iron and steel, steel works and rolling mills.....	1919 1914	20,177 15,408	99.5 99.9	0.4 0.1	(¹) (¹)
Automobile repairing.....	1919 1914	3,120 759	98.9 99.1	1.0 0.5	0.1 0.4	Iron and steel forgings, not made in steel works or rolling mills.....	1919 1914	2,328 750	98.4 100.0	1.6	.....
Bookbinding and blank-book making.....	1919 1914	2,305 2,460	51.2 53.5	43.0 44.1	5.8 2.5	Knit goods.....	1919 1914	5,095 3,535	27.3 31.2	69.0 66.5	3.6 2.3
Boots and shoes.....	1919 1914	7,684 6,071	52.8 59.6	44.1 38.0	3.1 2.4	Leather, tanned, curried, and finished.....	1919 1914	4,434 2,678	86.5 99.3	12.7 0.6	0.8 0.1
Boxes, paper and other, not elsewhere specified.....	1919 1914	5,923 4,586	41.4 42.4	44.1 47.7	14.5 9.9	Liquors, malt.....	1919 1914	2,796 5,749	98.1 98.9	1.8 0.8	0.1 0.3
Boxes, wooden packing, except cigar boxes.....	1919 1914	4,524 4,438	88.4 94.7	11.1 4.6	0.6 0.8	Lumber, planing-mill products, not includ- ing planing mills connected with sawmills.....	1919 1914	5,147 7,734	97.5 99.1	1.7 0.2	0.9 0.7
Brass, bronze, and copper products.....	1919 1914	3,174 1,502	92.8 97.3	6.7 1.9	0.5 0.8	Millinery and lace goods, not elsewhere specified.....	1919 1914	4,830 3,323	20.6 25.0	77.5 72.9	1.9 2.2
Bread and other bakery products.....	1919 1914	12,418 10,404	69.9 75.4	28.7 23.5	1.4 1.1	Musical instruments, pianos.....	1919 1914	6,991 6,682	87.4 95.1	10.0 3.7	2.5 1.2
Brick and tile, terra-cotta, and fire-clay products.....	1919 1914	5,027 7,151	99.8 99.7	0.1 0.1	0.1 0.3	Paints.....	1919 1914	2,040 1,670	88.9 89.9	11.0 10.0	0.1 0.1
Carriages and wagons, including repairs.....	1919 1914	2,303 4,275	99.2 98.4	0.7 1.6	0.1 (¹)	Petroleum, refining.....	1919 1914	2,448 1,072	97.3 100.0	2.7	.....
Cars and general shop construction and repairs by electric-railroad companies.....	1919 1914	3,151 1,813	99.4 99.7	0.6 0.3	.....	Pickles, preserves, and sauces.....	1919 1914	2,255 1,192	46.2 51.2	52.8 45.9	1.0 2.9
Cars and general shop construction and repairs by steam-railroad companies.....	1919 1914	40,219 28,682	99.3 99.9	0.7 0.1	(¹) (¹)	Plumbers' supplies, not elsewhere specified.....	1919 1914	2,096 3,422	91.4 95.0	8.4 4.9	0.2 0.1
Cars, steam-railroad, not including opera- tions of railroad companies.....	1919 1914	13,775 18,000	98.4 99.7	1.6 0.3	.....	Printing and publishing, book and job.....	1919 1914	21,639 18,892	73.5 74.1	22.8 22.9	3.6 3.0
Chemicals.....	1919 1914	3,004 1,682	98.3 98.7	1.7 1.2	..... 0.1	Printing and publishing, newspapers and periodicals.....	1919 1914	10,120 9,021	76.0 81.4	17.4 16.2	6.6 2.4
Clothing, men's.....	1919 1914	32,896 34,152	46.6 40.3	52.6 52.0	0.8 1.7	Roofing materials.....	1919 1914	2,722 862	95.6 98.7	4.3 0.9	0.1 0.3
Clothing, women's.....	1919 1914	10,278 8,113	29.3 30.9	69.3 67.6	1.4 1.5	Slaughtering and meat packing.....	1919 1914	54,179 31,315	87.0 89.8	13.0 10.1	(¹) 0.2
Confectionery and ice cream.....	1919 1914	8,779 5,829	50.4 46.6	46.1 46.9	3.5 0.5	Smelting and refining, zinc.....	1919 1914	4,224 3,573	99.9 99.3	(¹) 0.1	..... 0.7
Copper, tin, and sheet-iron work.....	1919 1914	2,232 2,490	97.0 98.4	2.5 1.0	0.5 0.6	Soap.....	1919 1914	2,270 2,144	62.2 70.8	35.0 25.4	2.8 3.9
Corsets.....	1919 1914	2,273 1,974	12.5 9.5	82.1 80.3	5.4 4.3	Stamped and enameled ware, not else- where specified.....	1919 1914	2,450 1,572	69.0 80.3	30.0 18.4	1.0 1.3
Electrical machinery, apparatus, and sup- plies.....	1919 1914	27,290 16,483	69.7 78.8	28.1 20.9	2.2 0.3	Steam fittings and steam and hot-water heating apparatus.....	1919 1914	9,928 2,579	92.0 96.1	8.0 3.8	(¹) 0.2
Engines, steam, gas, and water.....	1919 1914	8,045 1,860	97.6 99.6	2.4 0.3	(¹) 0.1	Stoves and hot-air furnaces.....	1919 1914	4,880 3,323	94.8 99.0	0.5 0.1	4.7 0.9
Flour-mill and gristmill products.....	1919 1914	2,740 2,398	98.1 99.3	1.9 0.5	..... 0.1	Structural ironwork, not made in steel works or rolling mills.....	1919 1914	3,790 4,933	99.9 99.7	0.1 0.2	..... 0.1
Food preparations, not elsewhere specified.....	1919 1914	4,061 1,790	67.5 69.2	31.9 30.0	0.6 0.8	Tinware, not elsewhere specified.....	1919 1914	5,927 3,383	65.6 70.6	33.9 28.7	0.6 0.7
Foundry and machine-shop products.....	1919 1914	49,450 37,130	95.8 97.2	3.7 2.3	0.5 0.5	Tobacco, cigars and cigarettes.....	1919 1914	3,363 6,457	68.6 74.3	29.9 23.1	1.4 2.6
Furniture.....	1919 1914	12,294 13,350	93.3 96.7	5.9 2.2	0.8 1.0	Tools, not elsewhere specified.....	1919 1914	2,998 1,115	65.7 97.9	3.8 1.7	0.4 0.4
Gas, illuminating and heating.....	1919 1914	4,430 3,890	98.7 100.0	1.3	.....	Wire.....	1919 1914	2,775 2,763	96.3 99.2	3.7 0.8	..........
Glass.....	1919 1914	4,065 3,764	88.0 95.8	11.1 4.0	0.9 0.2	All other industries.....	1919 1914	141,845 108,060	73.5 77.9	24.7 20.5	1.8 1.5

¹ Less than one-tenth of 1 per cent.^{*} Includes "iron and steel, tempering and welding"; "machine tools"; and "steel barrels, drums, and tanks."

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TABLE 6.—AVERAGE NUMBER OF WAGE EARNERS, BY SEX AND AGE, AND VALUE OF PRODUCTS FOR CITIES OF 10,000 INHABITANTS OR MORE: 1919, 1914, AND 1909.

CITY.	AVERAGE NUMBER OF WAGE EARNERS IN MANUFACTURING INDUSTRIES.												VALUE OF PRODUCTS.			
	Total.	16 years of age and over.									Under 16 years of age.					
		Male.			Female.											
		1919	1914	1909	1919	1914	1909	1919	1914	1909	1919	1914				1909
Alton.....	3,236	2,662	2,429	2,751	2,527	2,247	484	122	124	1	13	58	\$31,036,983	\$12,864,532	\$10,096,333	
Aurora.....	6,008	4,777	5,095	5,246	3,623	4,081	1,078	1,058	943	284	96	71	30,038,961	10,789,383	10,954,175	
Bellefonte.....	3,160	2,450	1,872	2,318	1,997	1,662	734	387	139	108	66	71	14,017,292	5,727,269	4,614,698	
Berwyn.....	25			20			5						155,157			
Bloomington.....	2,818	2,384	2,077	2,503	2,149	1,767	274	220	266	41	15	44	11,519,580	4,803,808	4,867,930	
Blue Island.....	1,180			986			193			1			7,498,870			
Cairo.....	1,792	1,522	1,237	1,621	1,479	1,202	169	42	32	2	1	3	10,526,159	4,583,539	4,440,148	
Canton.....	1,296	920	1,262	1,061	804	1,143	221	116	111	14		8	4,558,447	2,676,965	2,941,625	
Centerville.....	1,003	237		793	154		206	82		4	1		3,010,556	767,533		
Champaign.....	1,063	382	273	958	331	253	103	50	14	2	1	6	5,187,010	1,244,696	840,489	
Chicago.....	403,942	313,710	293,977	311,051	249,979	231,461	87,192	62,412	57,545	5,699	4,819	4,971	3,657,424,471	1,483,498,416	1,281,171,181	
Chicago Heights.....	5,328	4,288	3,953	4,931	4,104	3,830	357	171	95	40	13	28	41,788,147	14,485,569	10,839,268	
Cicero ¹	14,754			11,674			3,044			36			57,918,418			
Danville.....	3,343	2,109	1,744	3,106	1,929	1,605	234	160	127	3	20	12	15,005,953	5,291,160	3,350,596	
Decatur.....	5,693	4,003	2,999	4,918	3,349	2,213	675	484	402	100	170	84	38,633,689	11,957,406	9,767,988	
East St. Louis.....	8,785	5,863	5,226	8,337	5,750	5,006	420	95	156	28	18	64	77,292,812	26,904,565	18,103,788	
Elgin.....	6,846	5,529	6,067	3,999	3,277	3,618	2,697	2,130	2,353	150	72	96	25,648,891	10,491,829	10,537,052	
Evanston.....	1,406	924	837	1,227	899	754	169	24	82	9	1	1	9,791,025	3,984,824	3,778,298	
Forest Park.....	192			181			10			1			1,016,236			
Freeport.....	3,177	2,566	2,853	2,714	2,372	2,585	409	173	245	54	21	23	18,405,204	7,446,977	7,811,277	
Galesburg.....	2,222	1,362	1,465	1,915	1,212	1,266	215	147	186	92	3	13	10,352,242	3,192,129	2,919,091	
Granite City.....	5,493	5,090		5,061	4,859		402	226		30	5		43,039,044	17,903,162		
Herrin.....	52			42			10						285,225			
Jacksonville.....	1,091	932	947	809	739	700	271	177	234	11	16	13	7,126,506	2,355,192	2,298,700	
Joliet.....	11,259	4,999	6,383	10,295	4,443	5,834	945	552	523	19	4	26	82,699,536	30,091,415	38,816,523	
Kankakee.....	1,959	1,430	1,349	1,202	989	938	606	389	348	151	52	63	7,287,117	3,193,020	2,723,171	
Kewanee.....	3,909	2,837		3,393	2,462		478	348		38	27		10,278,508	5,440,615		
La Salle.....	1,792	1,214	936	1,777	1,179	909	12	8	9	3	27	18	5,533,706	5,245,780	4,327,551	
Lincoln.....	194	239	220	144	220	204	45	17	15	5	2	1	784,734	560,637	570,243	
Matteson.....	1,134	735	948	1,072	697	916	60	38	32	2			4,051,058	1,543,727	1,434,420	
Maywood.....	2,217			1,769			448						14,432,705			
Moline.....	5,444	5,053	5,387	5,129	4,854	5,170	289	170	175	26	29	42	44,871,021	19,925,106	20,663,848	
Murphysboro.....	1,139			934			205						6,208,317			
Oak Park.....	333	268	282	353	253	276	29	15	6	1			2,280,640	1,555,083	1,117,697	
Ottawa.....	729			637			92						3,223,647			
Pekin.....	934	634		894	598		38	35		2	1		25,663,968	9,009,500		
Peoria.....	7,977	6,285	5,981	6,309	5,182	5,213	1,409	972	722	109	131	46	57,074,893	64,689,045	63,681,155	
Quincy.....	4,443	3,067	3,997	3,634	2,523	3,223	739	493	714	70	51	60	23,498,813	9,656,918	11,065,809	
Rock Island.....	3,208	1,897	1,754	2,936	1,690	1,596	261	141	112	11	6	46	22,350,114	6,487,859	5,839,778	
Rockford.....	14,992	10,472	9,309	12,233	8,654	7,615	2,662	1,767	1,499	97	51	195	74,918,953	26,371,219	22,295,740	
Springfield.....	5,365	4,157	3,652	3,856	3,312	2,920	1,477	813	688	32	32	44	22,723,265	11,700,909	8,497,245	
Streator.....	1,301	1,763	1,275	1,137	1,626	1,109	146	122	108	18	15	58	6,062,302	3,886,617	2,137,252	
Urbana.....	509			414			46			49			1,450,522			
Waukegan.....	2,538	2,276	2,956	2,137	2,098	2,741	370	160	196	31	9	19	24,093,062	12,438,514	19,540,700	

¹ Statistics for Cicero could not be shown in 1914 and 1909 without disclosure of individual operations.

TABLE 7.—WAGE EARNERS, BY MONTHS: 1919, 1914, AND 1909.

MONTH.	NUMBER. ¹			PER CENT OF MAXIMUM.			MONTH.	NUMBER. ¹			PER CENT OF MAXIMUM.		
	1919	1914	1909	1919	1914	1909		1919	1914	1909	1919	1914	1909
January.....	650,664	517,634	438,594	94.3	99.2	88.0	July.....	638,982	505,982	454,410	92.6	97.0	91.1
February.....	643,541	518,292	442,881	93.3	99.3	88.8	August.....	653,478	502,603	460,414	95.4	96.3	92.3
March.....	630,041	521,752	452,563	92.2	100.0	90.8	September.....	681,270	504,543	481,796	98.7	98.7	96.6
April.....	620,600	514,505	455,145	89.9	98.6	91.3	October.....	681,015	505,655	493,928	98.7	96.9	99.1
May.....	618,701	508,665	454,965	89.7	97.7	91.2	November.....	689,945	488,164	496,452	100.0	93.6	99.6
June.....	628,740	512,246	459,375	91.1	98.2	92.1	December.....	689,491	483,875	496,640	99.9	92.6	100.0

¹ The figures represent the number employed on the 15th of each month or the nearest representative day. Maximum number indicated by bold-faced figures, minimum by italic figures.

TABLE 8.—WAGE EARNERS, BY MONTHS, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919.

[The month of maximum employment for each industry is indicated by bold-faced figures and that of minimum employment by *italic* figures.]

INDUSTRY AND CITY.	Average number employed during year.	NUMBER EMPLOYED ON 15TH DAY OF THE MONTH OR NEAREST REPRESENTATIVE DAY.												Per cent minimum is of maximum.
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
All industries.....	653,114	650,604	643,541	636,041	620,500	618,701	628,740	638,982	658,478	681,270	681,015	689,945	689,491	89.7
Males.....	527,205	527,184	521,149	515,107	503,017	500,900	509,081	510,067	530,173	545,601	545,162	554,308	555,121	90.2
Females.....	125,909	123,420	122,392	120,934	117,483	117,801	119,659	128,905	128,305	135,669	135,853	135,637	134,370	80.5
Agricultural implements.....	22,548	24,513	25,045	24,474	22,811	21,940	21,613	22,448	18,080	21,784	21,848	22,016	23,164	75.6
Automobile bodies and parts.....	5,298	4,298	4,414	4,507	4,731	4,578	5,012	5,308	5,630	6,015	6,118	6,238	6,361	67.6
Automobiles.....	3,507	3,017	3,024	3,167	3,262	3,321	3,420	3,488	3,688	3,733	3,943	4,040	3,981	74.7
Automobile repairing.....	3,120	2,918	2,931	2,978	3,062	3,117	3,187	3,282	3,245	3,247	3,192	3,157	3,124	88.9
Bookbinding and blank-book making.....	2,395	2,164	2,209	2,280	2,308	2,337	2,340	2,424	2,490	2,501	2,533	2,560	2,576	84.0
Boots and shoes.....	7,084	7,563	7,761	7,806	8,609	6,163	7,431	7,933	7,070	8,200	8,453	8,576	8,737	64.2
Boxes, paper and other, not elsewhere specified.....	5,923	5,932	5,762	5,625	5,580	5,585	5,608	5,737	6,001	6,093	6,377	6,434	6,342	85.0
Boxes, wooden packing, except cigar boxes.....	4,524	5,084	4,873	4,742	4,457	4,547	4,008	2,965	4,692	4,495	4,621	4,655	4,600	59.0
Brass, bronze, and copper products.....	3,174	3,280	3,065	2,895	2,457	2,998	3,708	3,415	3,415	3,391	3,389	3,381	3,565	77.6
Bread and other bakery products.....	12,418	11,943	11,061	11,704	12,284	11,867	12,340	12,901	12,793	12,733	13,084	13,132	13,184	85.4
Brick and tile, terra-cotta, and fire-clay products.....	5,027	3,839	3,257	3,842	4,937	5,768	6,245	6,020	6,870	7,005	7,443	6,733	5,547	43.5
Carriages and wagons, including repairs.....	2,303	2,412	2,306	2,235	2,159	2,118	1,963	2,140	2,247	2,458	2,589	2,525	2,484	75.8
Cars and general shop construction and repairs by electric-railroad companies.....	3,151	3,256	3,252	3,219	3,099	2,992	2,915	2,842	2,043	3,103	3,310	3,407	3,474	81.8
Cars and general shop construction and repairs by steam-railroad companies.....	40,219	40,390	40,107	39,616	39,116	38,978	39,148	39,552	39,669	40,801	41,532	41,883	41,886	93.1
Cars, steam-railroad, not including operations of railroad companies.....	13,775	15,984	15,150	15,942	15,500	12,899	12,054	11,151	12,846	13,480	14,007	13,458	12,711	69.9
Chemicals.....	3,004	3,059	2,812	2,047	2,070	2,572	2,694	2,831	3,280	3,391	3,344	3,452	3,216	72.5
Clothing, men's.....	32,806	27,865	29,200	30,050	29,498	30,206	31,774	33,032	35,031	36,468	38,088	36,384	37,139	73.1
Clothing, women's.....	10,278	2,068	10,071	10,390	10,399	9,785	9,844	9,371	10,948	11,390	11,052	10,543	10,125	80.7
Confectionery and ice cream.....	8,779	7,733	8,333	8,258	7,951	7,705	7,821	7,407	9,387	10,214	10,690	10,479	9,355	69.3
Copper, tin, and sheet-iron work.....	2,232	1,065	1,998	1,995	2,080	2,156	2,251	2,326	2,265	2,396	2,459	2,453	2,440	70.9
Corsets.....	2,273	2,162	2,147	2,141	2,176	2,208	2,167	2,108	2,203	2,247	2,459	2,490	2,579	83.0
Electrical machinery, apparatus, and supplies.....	27,290	26,772	25,894	25,650	25,705	25,868	26,046	26,241	27,346	28,129	29,117	29,837	30,905	82.8
Engines, steam, gas, and water.....	8,045	9,821	9,683	9,325	8,465	8,382	7,955	7,785	8,061	8,519	8,518	8,497	8,839	79.3
Flour-mill and gristmill products.....	2,740	2,680	2,697	2,667	2,580	2,579	2,577	2,701	2,875	2,937	2,934	2,934	2,910	87.4
Food preparations, not elsewhere specified.....	4,061	4,369	4,288	4,091	3,748	3,638	3,805	3,929	4,278	4,301	4,150	4,073	4,062	83.3
Foundry and machine-shop products.....	45,879	45,512	44,434	43,094	42,205	41,921	42,770	44,888	45,726	47,711	49,404	51,077	51,806	80.9
Furniture.....	12,294	10,821	11,089	11,541	10,036	10,025	12,402	12,920	13,934	13,183	13,487	13,867	13,984	72.1
Gas, illuminating and heating.....	4,480	4,988	4,558	4,414	4,268	4,382	4,282	4,341	4,432	4,268	4,301	4,305	4,473	65.4
Glass.....	4,065	4,230	4,291	4,196	4,249	4,024	4,086	4,014	3,957	4,027	3,940	3,905	3,827	89.1
Hardware.....	4,014	4,706	4,723	4,070	4,065	4,444	4,617	4,025	5,038	5,015	5,180	5,472	5,513	80.6
Instruments, professional and scientific.....	3,621	3,314	3,456	3,458	3,481	3,420	3,066	3,760	3,860	3,820	3,767	3,846	3,603	85.9
Iron and steel, blast furnaces.....	2,120	2,571	2,882	2,172	2,006	1,806	1,840	2,075	2,276	2,304	1,219	2,478	2,410	47.4
Iron and steel, steel works and rolling mills.....	20,177	25,039	25,785	23,613	21,561	20,059	18,510	18,669	19,452	20,302	18,380	18,274	17,520	51.7
Iron and steel forgings, not made in steel works or rolling mills.....	2,328	2,528	2,745	2,618	2,551	2,269	1,745	1,911	2,072	2,273	2,288	2,334	2,304	61.7
Knit goods.....	5,095	5,017	5,017	4,988	4,040	5,006	5,090	5,183	5,160	5,124	5,185	5,233	5,159	94.8
Leather, tanned, curried, and finished.....	4,434	4,144	4,180	4,235	4,264	4,241	4,363	4,578	4,680	4,693	4,684	4,614	4,614	88.3
Liquors, malt.....	2,796	2,712	2,717	2,680	2,940	2,930	3,169	3,243	3,088	2,742	2,652	2,400	2,375	70.1
Lumber, planing-mill products, not including planing mills connected with sawmills.....	5,147	4,292	4,216	4,268	4,573	4,923	5,345	5,710	5,654	5,613	5,717	5,788	5,667	72.9
Machine tools.....	3,273	3,385	3,356	3,336	3,156	2,843	2,713	2,971	3,212	3,380	3,537	3,636	3,751	72.3
Millinery and lace goods, not elsewhere specified.....	4,830	4,781	5,128	4,970	5,003	4,389	4,173	4,610	4,889	4,703	5,079	5,126	5,094	81.4
Musical instruments, pianos.....	6,991	6,417	6,530	6,730	6,862	6,893	6,948	6,988	7,122	7,222	7,439	7,377	7,366	86.3
Paints.....	2,640	2,572	2,545	2,548	2,482	2,500	2,502	2,560	2,559	2,781	2,820	2,800	2,002	82.7
Petroleum, refining.....	2,448	2,564	2,377	2,477	2,424	2,380	2,416	2,488	2,439	2,374	2,524	2,589	2,534	90.0
Pickles, preserves, and sauces.....	2,255	1,982	1,865	1,924	2,055	2,233	2,163	1,858	1,990	2,900	3,083	2,576	2,441	60.2
Plumbers' supplies, not elsewhere specified.....	2,006	2,078	1,880	1,838	1,704	1,914	2,019	2,126	2,120	2,132	2,360	2,493	2,488	98.4
Printing and publishing, book and job.....	21,639	21,255	21,431	20,963	20,824	20,378	20,749	21,626	22,529	22,639	21,807	22,533	23,474	89.4
Printing and publishing, newspapers and periodicals.....	10,120	9,963	10,015	10,079	9,976	10,062	10,074	10,075	10,088	10,150	10,249	10,314	10,395	95.8
Roofing materials.....	2,722	2,252	2,074	2,332	2,497	2,478	2,820	2,967	3,002	3,041	3,072	3,004	3,125	66.4
Slaughtering and meat packing.....	54,179	65,114	59,864	55,397	50,427	50,043	51,711	52,297	52,435	52,671	52,946	53,720	53,509	76.9
Smelting and refining, zinc.....	4,224	4,781	4,548	4,311	4,141	4,100	4,068	4,180	4,292	4,328	4,277	5,022	4,030	75.6
Soap.....	2,270	2,383	2,222	1,959	1,970	2,144	2,230	2,374	2,451	2,507	2,474	2,341	2,179	78.1
Stamped and enameled ware, not elsewhere specified.....	2,450	1,884	2,356	2,312	2,312	2,427	2,505	2,306	2,580	2,560	2,668	2,744	2,797	65.2
Steam fittings and steam and hot-water heating apparatus.....	9,928	10,548	10,490	10,471	10,048	9,898	8,360	6,685	6,683	10,726	11,421	11,767	12,099	64.7
Stoves and hot-air furnaces.....	4,880	5,304	4,102	4,541	4,521	5,174	5,322	5,061	5,225	5,217	5,479	5,484	5,130	60.2
Structural ironwork, not made in steel works or rolling mills.....	3,790	4,348	4,007	3,757	3,629	3,457	3,501	3,638	3,822	3,915	3,650	3,705	4,051	79.5
Tinware, not elsewhere specified.....	5,927	6,116	5,944	5,783	5,512	5,721	5,903	6,649	6,519	6,048	5,850	5,597	5,432	82.4
Tobacco, cigars and cigarettes.....	3,363	3,652	3,630	3,632	3,585	3,611	3,593	3,375	2,792	2,676	2,789	3,368	3,553	73.3
Tools, not elsewhere specified.....	2,998	3,153	2,864	2,821	2,797	2,731	2,777	2,924	3,033	3,123	3,109	3,247	3,307	82.6
Wire.....	2,775	3,198	3,129	3,072	2,947	2,883	2,960	3,102	3,309	3,129	1,768	1,887	2,216	44.4
All other industries.....	142,143	133,642	131,932	132,652	133,337	136,050	139,832	141,691	147,445	153,214	152,135	152,920	150,866	86.1
Industries showing large proportion of females.....														
Bookbinding and blank-book making.....	1,108	1,040	1,035	1,006	1,090	1,125	1,055	1,092	1,164	1,149	1,145	1,164	1,171	88.4
Boots and shoes.....	3,499	3,479	3,505	3,512	2,075	2,775	3,329	3,005	3,686	3,768	3,843	3,906	3,905	88.5
Boxes, paper and other, not elsewhere specified.....	3,279	3,154	3,168	3,161	3,115	3,125	3,129	3,270	3,305	3,318	3,523	3,569	3,502	87.3
Bread and other bakery products.....	3,659	3,626	3,575	3,376	3,592	3,554	3,657	3,896	3,772	3,702	3,816	3,761	3,781	86.6
Clothing, men's.....	17,507	14,765	15,574	15,979	15,617	16,003	16,805	17,621	18,794	19,458	20,292	19,435	19,753	72.7
Clothing, women's.....	7,249	6,537	6,934	7,172	7,310	7,017	7,032	7,042	7,656	7,882	7,843	7,545	7,218	80.4
Confectionery and ice cream.....	4,277	3,850	4,232	4,148	3,892	3,638	3,520	3,522	4,346	4,889	5,361	5,314	4,792	62.3
Corsets.....	1,959	1,859	1,847	1,885	1,867	1,903	1,865	1,888	1,971	1,924	2,133	2,170	2,247	81.2
Electrical machinery, apparatus, and supplies.....	7,793	7,861	7,448	7,338	7,343	7,401	7,365	7,295	7,745	8,016	8,319	8,556	8,829	82.6

TABLE 8.—WAGE EARNERS, BY MONTHS, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919—Continued.

[The month of maximum employment for each industry is indicated by bold-faced figures and that of minimum employment by *italic* figures.]

INDUSTRY AND CITY.	Average number employed during year.	NUMBER EMPLOYED ON 15TH DAY OF THE MONTH OR NEAREST REPRESENTATIVE DAY.												Per cent minimum is of maximum.
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
Industries showing large proportion of females—Continued.														
Food preparations, not elsewhere specified.	1,318	1,448	1,425	1,349	1,233	1,166	1,200	1,233	1,376	1,408	1,368	1,315	1,305	80.5
Instruments, professional and scientific	780	718	713	700	705	770	806	864	855	814	811	843	766	81.0
Knit goods.	3,645	3,582	3,602	3,660	3,568	3,646	3,651	3,719	3,679	3,656	3,687	3,723	3,667	95.6
Millinery and lace goods, not elsewhere specified.	3,812	3,767	4,027	3,885	3,932	3,450	3,281	3,677	3,880	3,733	4,057	4,080	4,025	79.2
Pickles, preserves, and sauces.	1,205	1,064	986	1,044	1,094	1,239	1,164	1,084	1,084	1,560	1,649	1,312	1,230	59.8
Printing and publishing, book and job.	5,256	5,297	5,305	5,434	4,888	4,760	4,851	5,107	5,472	5,526	5,252	5,379	5,811	81.7
Printing and publishing, newspapers and periodicals.	1,844	1,834	1,834	1,895	1,808	1,818	1,831	1,810	1,839	1,822	1,836	1,899	1,908	94.4
Slaughtering and meat packing.	7,048	9,822	8,611	7,394	6,233	6,172	6,105	6,117	6,565	6,739	7,005	7,394	6,619	63.4
Soap.	848	870	788	707	725	780	803	884	918	991	970	893	847	71.3
Stamped and enameled ware, not elsewhere specified.	738	680	819	727	678	716	736	672	748	746	750	789	795	82.1
Tinware, not elsewhere specified.	2,019	2,165	1,871	1,938	1,828	1,936	1,927	2,209	2,297	2,051	2,127	2,019	1,890	79.6
Tobacco, cigars and cigarettes.	1,017	1,080	1,070	1,071	1,034	1,046	1,067	1,008	847	855	920	1,056	1,150	73.7
Total for cities.	555,930	555,002	551,401	544,261	528,894	525,519	533,308	542,805	550,974	570,739	578,264	588,598	589,335	89.2
Males.	442,396	443,722	440,673	434,708	422,567	410,113	425,834	432,455	441,602	458,159	455,582	466,248	468,029	89.5
Females.	113,534	111,280	110,728	109,493	106,327	106,406	107,474	110,350	115,372	118,580	122,682	122,350	121,306	86.7
ALTON.	3,236	3,196	3,189	3,194	3,212	3,165	3,163	3,179	3,287	3,333	3,315	3,282	3,317	94.9
Males.	2,752	2,736	2,730	2,737	2,747	2,706	2,702	2,714	2,771	2,816	2,798	2,766	2,801	96.0
Females.	484	460	459	457	465	459	461	465	516	517	517	516	516	88.4
AURORA.	6,608	6,441	6,484	6,581	6,558	6,362	6,480	6,723	6,751	6,537	6,833	6,969	6,847	91.2
Males.	5,455	5,277	5,293	5,420	5,217	5,238	5,346	5,546	5,586	5,396	5,690	5,790	5,661	90.1
Females.	1,153	1,164	1,191	1,161	1,341	1,124	1,114	1,177	1,165	1,141	1,143	1,179	1,186	93.9
BELLEVIEW.	3,160	2,558	2,667	3,080	3,115	3,106	3,214	3,316	3,311	3,338	3,334	3,304	3,327	76.6
Males.	2,417	1,882	2,223	2,279	2,364	2,380	2,467	2,563	2,551	2,580	2,610	2,561	2,604	90.8
Females.	743	736	744	751	751	726	747	753	760	758	724	743	723	95.1
BERWYN.	25	22	21	22	24	27	29	25	25	27	27	20	25	72.4
Males.	20	17	16	17	19	22	24	20	20	22	22	21	20	65.7
Females.	5	5	5	5	5	5	5	5	5	5	5	5	5	100.0
BLOOMINGTON.	2,818	2,788	2,738	2,775	2,704	2,738	2,781	2,871	2,854	2,856	2,876	2,912	2,893	93.7
Males.	2,526	2,450	2,446	2,483	2,493	2,462	2,470	2,572	2,554	2,583	2,584	2,602	2,602	94.0
Females.	293	278	292	292	301	286	302	299	300	273	292	310	291	88.1
BLUE ISLAND.	1,180	884	824	968	1,178	1,302	1,311	905	920	1,388	1,610	1,520	1,404	51.2
Males.	987	668	669	797	979	1,047	1,004	849	867	1,168	1,269	1,269	1,171	51.5
Females.	193	156	155	171	199	255	247	59	59	220	344	251	233	17.8
CAIRO.	1,792	1,760	1,658	1,695	1,580	1,720	1,814	1,810	1,937	1,822	1,789	1,986	2,043	74.4
Males.	1,622	1,584	1,497	1,505	1,353	1,544	1,648	1,636	1,734	1,681	1,624	1,804	1,869	72.8
Females.	170	176	161	190	227	176	171	174	203	141	170	182	184	56.7
CANTON.	1,206	1,549	1,537	1,336	1,102	946	676	1,301	1,324	1,324	1,378	1,308	1,372	30.7
Males.	1,075	1,326	1,304	1,108	886	752	396	1,085	1,098	1,089	1,189	1,067	1,041	24.1
Females.	221	223	233	228	216	194	180	216	226	235	239	241	231	74.7
CENTRALIA.	1,003	1,014	993	969	958	958	953	977	1,011	1,030	1,069	1,063	1,071	87.6
Males.	795	807	790	771	759	753	752	774	813	818	844	833	846	87.4
Females.	208	207	203	198	199	205	201	208	198	212	225	230	225	88.0
CHAMPAIGN.	1,063	956	907	923	979	1,042	1,054	1,054	1,115	1,124	1,164	1,226	1,212	74.0
Males.	959	849	842	850	897	945	950	956	1,006	1,008	1,046	1,084	1,076	77.7
Females.	104	107	65	73	82	97	104	98	109	116	118	142	137	45.8
CHICAGO.	403,942	405,697	399,849	395,481	385,060	381,980	387,200	393,444	402,439	419,325	419,774	428,792	428,363	89.1
Males.	313,560	317,770	311,893	308,181	300,424	297,633	302,121	305,508	309,954	324,522	321,665	331,030	332,132	89.6
Females.	90,382	87,921	87,956	87,300	84,636	84,347	85,079	87,936	92,485	94,803	98,089	97,666	96,231	84.1
CHICAGO HEIGHTS.	5,328	5,557	5,353	5,230	4,888	4,910	5,099	5,276	5,177	5,455	5,653	5,755	5,589	84.8
Males.	4,968	5,173	4,970	4,838	4,591	4,616	4,741	4,946	4,868	5,073	5,269	5,331	5,180	86.1
Females.	360	384	383	342	297	294	358	330	309	382	414	424	409	68.6
CICERO.	14,754	14,187	14,023	14,006	14,032	14,209	14,385	14,435	14,786	15,072	15,778	15,640	16,486	85.0
Males.	11,704	11,016	11,080	11,053	11,062	11,217	11,414	11,630	11,850	11,955	12,611	12,433	13,113	84.0
Females.	3,050	3,171	2,943	2,953	2,970	2,992	2,971	2,805	2,927	3,117	3,167	3,216	3,373	83.3
DANVILLE.	3,343	3,485	3,470	3,457	3,436	3,294	3,189	3,199	3,233	3,354	3,426	3,426	3,44	

TABLE 8.—WAGE EARNERS, BY MONTHS, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919—Continued.

[The month of maximum employment for each industry is indicated by bold-faced figures and that of minimum employment by *italic* figures.]

INDUSTRY AND CITY.	Average number employed during year.	NUMBER EMPLOYED ON 15TH DAY OF THE MONTH OR NEAREST REPRESENTATIVE DAY.												Percent minimum is of maximum.
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
FREEDPORT	3,177	<i>2,681</i>	2,781	2,843	2,785	3,114	3,039	3,227	3,347	3,487	3,482	3,644	3,694	72.6
Males.....	2,740	<i>2,349</i>	2,384	2,432	2,364	2,704	2,610	2,704	2,880	3,002	3,002	3,175	3,234	72.6
Females.....	437	<i>332</i>	417	411	421	410	429	463	467	485	480	469	460	68.5
GALESBURG	2,222	2,111	2,076	<i>1,986</i>	2,024	2,164	2,111	2,264	2,363	2,381	2,531	2,420	2,233	78.5
Males.....	2,007	1,895	1,851	<i>1,739</i>	1,830	1,964	1,906	2,052	2,148	2,170	2,302	2,184	1,993	77.7
Females.....	215	216	225	<i>197</i>	194	200	205	212	215	211	229	236	240	80.8
GRANITE CITY	5,493	5,079	7,123	6,894	6,100	5,624	4,904	<i>5,913</i>	4,495	5,550	6,321	5,629	4,284	54.9
Males.....	5,089	4,764	6,659	6,492	5,843	5,192	4,393	<i>5,507</i>	4,239	5,106	5,935	5,175	3,763	52.7
Females.....	404	315	<i>464</i>	402	257	432	511	406	<i>256</i>	444	386	454	521	49.1
HERRIN	52	<i>43</i>	43	48	53	55	61	63	61	56	53	45	43	68.3
Males.....	42	<i>33</i>	33	38	43	45	51	53	51	46	43	35	33	62.3
Females.....	10	10	10	10	10	10	10	10	10	10	10	10	10	100.0
JACKSONVILLE	1,091	1,051	1,060	<i>1,041</i>	1,061	1,076	1,143	1,127	1,122	1,064	1,063	1,133	1,151	90.4
Males.....	813	792	797	<i>778</i>	785	804	851	846	859	788	790	836	830	90.6
Females.....	278	<i>259</i>	263	263	276	272	292	281	263	276	273	297	321	80.7
JOLIET	11,250	12,120	11,877	11,810	11,567	11,569	11,729	11,777	12,097	11,523	<i>9,034</i>	9,608	10,397	74.6
Males.....	10,311	11,034	10,997	11,010	10,831	10,728	10,853	10,847	11,136	10,520	<i>7,960</i>	8,549	9,267	71.5
Females.....	948	1,086	880	800	736	841	876	930	961	1,003	1,074	1,059	1,130	65.1
KANKAKEE	1,959	1,901	1,903	1,914	1,873	1,877	1,984	1,998	1,985	2,071	2,073	1,996	1,933	90.4
Males.....	1,298	1,254	1,241	1,270	1,228	1,249	1,320	1,338	1,328	1,365	1,373	1,345	1,262	89.4
Females.....	661	647	662	644	645	628	664	660	657	706	700	651	671	89.0
KEWANEE	3,909	<i>2,871</i>	3,536	3,535	3,231	3,570	3,666	3,838	3,992	4,320	4,606	4,724	5,039	57.0
Males.....	3,414	<i>2,553</i>	3,027	3,027	2,775	3,109	3,194	3,353	3,505	3,870	4,083	4,246	4,441	52.5
Females.....	495	<i>318</i>	509	488	456	461	472	485	487	450	523	478	598	76.3
LA SALLE	1,792	1,764	1,739	1,696	1,743	1,703	1,748	1,783	1,900	1,957	1,978	1,853	<i>1,640</i>	82.9
Males.....	1,779	1,744	1,727	1,684	1,730	1,690	1,735	1,770	1,889	1,945	1,966	1,841	<i>1,637</i>	82.8
Females.....	13	20	12	12	13	13	13	13	11	12	12	12	13	55.0
LINCOLN	194	159	<i>163</i>	160	155	157	165	162	159	232	308	251	267	49.7
Males.....	146	128	<i>128</i>	128	128	131	135	136	133	168	207	168	171	60.9
Females.....	48	31	<i>27</i>	32	27	26	30	26	26	64	101	83	96	25.7
MATTOON	1,134	1,102	1,101	1,096	<i>1,081</i>	1,082	1,123	1,120	1,157	1,161	1,175	1,207	1,203	89.6
Males.....	1,074	1,055	1,054	1,049	<i>1,034</i>	1,035	1,076	1,072	1,076	1,086	1,094	1,130	1,127	81.5
Females.....	60	47	47	47	47	47	47	48	81	76	81	77	76	58.0
MAYWOOD	2,217	2,303	2,145	2,028	<i>1,954</i>	1,994	2,191	2,415	2,457	2,441	2,249	2,184	2,243	70.5
Males.....	1,769	1,800	1,816	1,658	<i>1,582</i>	1,625	1,717	1,893	1,918	1,916	1,751	1,735	1,817	82.5
Females.....	448	503	<i>329</i>	370	372	369	474	522	539	525	498	449	426	61.0
MOLINE	5,444	5,838	5,754	5,458	5,190	5,131	<i>4,048</i>	4,985	5,276	5,504	5,680	5,755	5,802	84.7
Males.....	5,150	5,560	5,446	5,181	4,916	4,854	<i>4,048</i>	4,893	5,170	5,190	5,372	5,453	5,508	83.6
Females.....	294	278	308	277	283	277	208	202	306	305	308	302	294	80.9
MURPHYSBORO	1,139	<i>1,046</i>	1,077	1,118	1,091	1,051	1,130	1,127	1,227	1,232	1,194	1,189	1,186	84.9
Males.....	934	<i>836</i>	888	929	905	841	930	918	1,010	1,016	981	978	978	82.3
Females.....	205	210	189	189	186	210	200	209	217	216	213	213	208	85.7
OAK PARK	383	<i>344</i>	346	361	366	390	403	398	407	408	395	389	389	84.3
Males.....	363	<i>314</i>	315	330	340	360	374	369	376	377	364	358	359	83.3
Females.....	30	30	31	31	26	30	29	29	31	31	31	31	30	83.0
OTTAWA	729	575	<i>558</i>	573	615	653	728	802	839	832	840	861	872	64.0
Males.....	637	522	<i>499</i>	510	543	569	644	702	730	717	726	736	746	66.9
Females.....	92	53	59	63	72	84	84	100	109	115	114	125	126	42.1
PEKIN	934	1,062	984	779	902	975	1,023	<i>451</i>	497	1,065	1,219	1,157	1,094	37.0
Males.....	896	990	920	746	849	920	959	<i>433</i>	481	1,047	1,198	1,136	1,073	36.1
Females.....	38	72	64	33	53	55	64	18	16	18	21	21	21	22.2
PEORIA	7,977	8,113	8,060	8,104	7,724	7,831	8,172	8,447	8,162	7,643	7,674	7,803	7,991	90.5
Males.....	6,591	6,661	6,658	6,722	6,476	6,450	6,870	7,118	6,818	6,073	6,193	6,408	6,450	87.1
Females.....	1,386	1,462	1,402	1,382	<i>1,248</i>	1,381	1,302	1,329	1,344	1,370	1,476	1,395	1,541	81.0
QUINCY	4,443	4,062	4,061	3,966	<i>3,672</i>	4,012	4,269	4,406	4,758	4,819	4,941	5,089	5,171	71.0
Males.....	3,672	3,307	3,269	3,208	<i>2,889</i>	3,294	3,556	3,702	3,970	4,041	4,130	4,227	4,311	69.3
Females.....	771	755	792	758	<i>683</i>	718	713	734	788	778	811	862	860	79.2
ROCK ISLAND	3,208	3,689	3,596	3,412	3,038	2,846	2,919	<i>2,690</i>	3,203	3,221	3,206	3,259	3,417	72.9
Males.....	2,943	3,401	3,324	3,163	2,828	2,630	2,658	<i>2,448</i>	2,945	2,937	2,907	2,964	3,111	72.0
Females.....	265	288	272	249	210	216	261	242	258	284	299	295	306	68.6
ROCKFORD	14,992	14,726	14,809	14,782	12,790	<i>12,516</i>	13,526	14,772	15,674	15,772	16,554	16,959	17,124	73.1
Males.....	12,318	12,039	12,144	12,167	10,247	<i>10,011</i>	10,998	12,071	12,832	13,122	13,743	14,133	14,319	69.9
Females.....	2,674	2,687	2,665	2,625	2,543	<i>2,505</i>	2,528	2,701	2,742	2,650	2,811	2,826	2,805	88.6
SPRINGFIELD	5,365	5,038	5,156	<i>5,031</i>	5,171	5,184	5,227	5,280	5,508	5,594	5,769	5,685	5,737	87.2
Males.....	3,874	3,579	3,676	3,665	3,715	3,753	3,813	3,868	3,968	4,019	4,086	4,105	4,241	84.4
Females.....	1,491	1,459	1,480	<i>1,366</i>	1,456	1,431	1,414	1,412	1,540	1,575	1,683	1,580	1,496	81.2
STREATOR	1,301	<i>1,090</i>	1,164	1,109	1,328	1,308	1,415	1,416	1,494	1,419	1,357	1,355	1,169	73.0
Males.....	1,153	<i>1,005</i>	1,077	1,020	1,229	1,195	1,277	1,275	1,296	1,216	1,150	1,142	<i>964</i>	73.6
Females.....	148	<i>85</i>	87	89	99	111	138	141	198	203	207	213	205	39.9
URBANA	509	492	<i>497</i>	494	453	<i>446</i>	458	511	549	550	553	550	555	80.4
Males.....	463	445	<i>445</i>	445	409	<i>402</i>	414	468	505	505	507	501	507	79.3
Females.....	46	47	<i>49</i>	49	44	44	44	43	44	45	46	49	48	87.8
WAUKEGAN	2,538	2,577	2,573	2,700	2,751	2,422	2,157	2,678	2,918	2,937	<i>2,088</i>	2,257	2,458	69.1
Males.....	2,146	2,253	2,195	2,349	2,390	2,018	1,793	2,265	2,510	2,516	<i>1,619</i>	1,818	2,026	64.3
Females.....	392	<i>324</i>	378	351	361	404	364	413	408	421	469	439	432	73.8

TABLE 9.—AVERAGE NUMBER OF WAGE EARNERS, BY PREVAILING HOURS OF LABOR PER WEEK, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919 AND 1914.

INDUSTRY AND CITY.	Census year.	Total.	IN ESTABLISHMENTS WHERE THE PREVAILING HOURS OF LABOR PER WEEK WERE—							
			44 and under.	Between 44 and 48.	48. ¹	Between 48 and 54.	54.	Between 54 and 60.	60.	Over 60.
All industries.....	1919	653, 114	95, 221	28, 194	229, 427	146, 879	44, 746	68, 615	22, 881	17, 151
	1914	506, 943	(²)	(²)	79, 601	99, 322	113, 574	102, 074	85, 238	24, 134
	1909	465, 704	(²)	(²)	55, 055	50, 781	120, 236	95, 908	109, 090	37, 694
Agricultural implements.....	1919	22, 548	(²)	(²)	179	17, 732	3, 086	1, 339	212	.....
	1914	19, 556	(²)	(²)	1, 197	730	568	13, 752	3, 311	.....
Automobile bodies and parts.....	1919	5, 298	83	22	798	2, 291	902	1, 126	76	.....
	1914	1, 236	(²)	(²)	73	447	410	215	91	.....
Automobiles.....	1919	3, 507	876	146	911	1, 443	53	78	.....	.....
	1914	1, 309	(²)	(²)	110	92	423	682	2	.....
Automobile repairing.....	1919	3, 120	291	11	516	611	749	119	778	45
	1914	759	(²)	(²)	23	39	328	51	295	23
Bookbinding and blank-book making.....	1919	2, 395	96	174	1, 328	797	.....	.....	.....	.....
	1914	2, 460	(²)	(²)	1, 046	862	528	24	.....	.....
Boots and shoes.....	1919	7, 684	573	148	3, 117	2, 075	821	950	.....	.....
	1914	6, 071	(²)	(²)	18	195	1, 175	4, 503	180	.....
Boxes, paper and other, not elsewhere specified.....	1919	5, 923	14	131	1, 784	3, 232	138	526	98	.....
	1914	4, 586	(²)	(²)	414	843	840	2, 145	159	179
Boxes, wooden packing, except cigar boxes.....	1919	4, 524	1, 239	255	192	418	347	1, 657	416	.....
	1914	4, 438	(²)	(²)	105	126	324	3, 297	589	.....
Brass, bronze, and copper products.....	1919	3, 174	228	32	1, 301	849	373	302	89	.....
	1914	1, 502	(²)	(²)	80	169	819	323	111	.....
Bread and other bakery products.....	1919	12, 418	347	3, 357	4, 480	1, 015	2, 287	163	610	159
	1914	10, 404	(²)	(²)	964	2, 046	4, 678	480	2, 064	172
Brick and tile, terra-cotta, and fire-clay products.....	1919	5, 627	34	30	2, 274	621	1, 240	95	1, 332	1
	1914	7, 151	(²)	(²)	2, 076	692	1, 464	613	1, 956	350
Carriages and wagons, including repairs.....	1919	2, 303	13	.....	122	1, 481	112	524	51	.....
	1914	4, 275	(²)	(²)	434	198	877	2, 342	424	.....
Cars and general shop construction and repairs by electric-railroad companies.....	1919	3, 151	577	.....	1, 629	68	626	44	27	180
	1914	1, 813	(²)	(²)	3	4	1, 400	19	247	140
Cars and general shop construction and repairs by steam-railroad companies.....	1919	40, 219	67	10, 404	22, 748	2, 093	1, 259	3, 580	88	.....
	1914	28, 682	(²)	(²)	5, 863	6, 491	11, 236	104	1, 551	3, 437
Cars, steam-railroad, not including operations of railroad companies.....	1919	13, 775	14	.....	2, 184	7, 083	.....	4, 544	.....	.....
	1914	18, 000	(²)	(²)	.....	1, 009	12, 949	1, 115	2, 927	.....
Chemicals.....	1919	3, 004	1	.....	1, 942	65	497	58	375	66
	1914	1, 682	(²)	(²)	23	10	62	15	851	1, 221
Clothing, men's.....	1919	32, 896	30, 009	87	1, 918	693	119	70	.....	.....
	1914	34, 152	(²)	(²)	7, 318	19, 117	4, 814	2, 674	228	1
Clothing, women's.....	1919	10, 278	7, 738	958	1, 078	401	13	.....	.....	.....
	1914	8, 113	(²)	(²)	671	4, 363	2, 213	816	51	.....
Confectionery and ice cream.....	1919	8, 779	5, 992	78	714	387	473	412	350	367
	1914	5, 829	(²)	(²)	274	727	1, 509	1, 730	1, 242	347
Copper, tin, and sheet-iron work.....	1919	2, 232	776	8	407	445	367	119	107	3
	1914	2, 490	(²)	(²)	1, 363	259	390	274	204	.....
Corsets.....	1919	2, 273	280	395	1, 105	492	.....	.....	.....	.....
	1914	1, 974	(²)	(²)	227	494	408	845	.....	.....
Electrical machinery, apparatus, and supplies.....	1919	27, 290	1, 227	309	17, 856	5, 639	1, 775	474	10	.....
	1914	16, 438	(²)	(²)	362	14, 680	750	687	14	.....
Engines, steam, gas, and water.....	1919	8, 645	.....	.....	2, 870	3, 323	1, 372	918	159	3
	1914	1, 860	(²)	(²)	.....	70	515	1, 190	85	.....
Flour-mill and gristmill products.....	1919	2, 740	144	.....	710	168	326	119	1, 111	162
	1914	2, 398	(²)	(²)	97	4	111	82	1, 294	816
Food preparations, not elsewhere specified.....	1919	4, 061	176	14	1, 589	477	330	172	1, 277	26
	1914	1, 790	(²)	(²)	100	240	209	293	874	74
Foundry and machine-shop products.....	1919	49, 450	5, 807	1, 096	9, 813	13, 077	7, 846	9, 880	2, 427	4
	1914	37, 130	(²)	(²)	2, 896	5, 976	13, 496	9, 184	5, 674	4
Furniture.....	1919	12, 294	965	54	691	6, 800	1, 944	1, 274	566	.....
	1914	13, 350	(²)	(²)	915	1, 727	4, 326	2, 625	3, 757	.....
Gas, illuminating and heating.....	1919	4, 430	4	.....	619	6	75	3, 032	252	442
	1914	3, 890	(²)	(²)	15	.....	100	2, 801	125	849
Glass.....	1919	4, 065	1, 828	277	1, 513	7	440	.....	.....	.....
	1914	3, 764	(²)	(²)	180	1, 203	663	1, 398	320	.....
Hardware.....	1919	4, 014	188	8	1, 195	1, 272	308	1, 516	426	.....
	1914	4, 035	(²)	(²)	123	744	967	999	1, 202	.....
Instruments, professional and scientific.....	1919	3, 621	2, 626	75	574	300	46	.....	.....	.....
	1914	1, 104	(²)	(²)	13	322	691	78	.....	.....
Iron and steel, blast furnaces.....	1919	2, 129	272	.....	263	.....	.....	.....	.....	1, 594
	1914	1, 450	(²)	(²)	.....	.....	.....	.....	682	768
Iron and steel, steel works and rolling mills.....	1919	20, 177	501	404	5, 359	578	478	2, 730	798	9, 329
	1914	15, 408	(²)	(²)	1, 469	2, 003	639	94	2, 656	8, 547

¹ Includes 48 and under for 1914 and 1909.² Includes "iron and steel, tempering and welding"; "machine tools"; and "steel barrels, drums, and tanks."³ Corresponding figures not available.

TABLE 9.—AVERAGE NUMBER OF WAGE EARNERS, BY PREVAILING HOURS OF LABOR PER WEEK, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919 AND 1914—Continued.

INDUSTRY AND CITY.	Census year.	Total.	IN ESTABLISHMENTS WHERE THE PREVAILING HOURS OF LABOR PER WEEK WERE—							
			44 and under.	Between 44 and 48.	48. ¹	Between 48 and 54.	54.	Between 54 and 60.	60.	Over 60.
Iron and steel forgings, not made in steel works or rolling mills....	1919	2,328	7	210	46	536	610	828	.....	91
	1914	750	(²)	(²)	95	51	311	240	53	.....
Knit goods.....	1919	5,095	509	657	989	2,066	2	872	.....	.....
	1914	3,535	(²)	(²)	266	511	1,786	447	.....	.....
Leather, tanned, curried, and finished.....	1919	4,434	.....	.....	1	3,287	246	82	187	631
	1914	2,678	.....	.....	.....	102	78	2,138	360	.....
Liquors, malt.....	1919	2,796	400	113	2,119	39	76	17	32	.....
	1914	5,749	(²)	(²)	5,066	193	354	114	22	.....
Lumber, planing-mill products, not including planing mills connected with sawmills.	1919	5,147	2,066	39	385	1,113	702	619	223	.....
	1914	7,734	(²)	(²)	677	2,527	2,464	861	1,185	19
Millinery and lace goods, not elsewhere specified.....	1919	4,830	1,386	1,134	1,029	807	305	47	.....	62
	1914	3,323	(²)	(²)	641	1,118	609	718	239	.....
Musical instruments, pianos.....	1919	6,991	1,567	.....	334	4,190	539	361	.....	.....
	1914	6,682	(²)	(²)	234	1,051	3,405	1,554	438	.....
Paints.....	1919	2,640	45	.....	353	859	177	1,131	75	.....
	1914	1,670	(²)	(²)	12	185	329	949	160	35
Petroleum, refining.....	1919	2,448	.....	.....	312	1,568	.....	541	15	12
	1914	1,072	.....	.....	.....	.....	249	.....	302	521
Pickles, preserves, and sauces.....	1919	2,255	60	123	277	1,415	45	148	187	.....
	1914	1,192	(²)	(²)	6	57	175	837	112	5
Plumbers' supplies, not elsewhere specified.....	1919	2,096	888	.....	284	154	608	72	.....	.....
	1914	3,422	(²)	(²)	16	43	2,989	95	279	.....
Printing and publishing, book and job.....	1919	21,639	982	112	16,932	3,377	138	27	8	63
	1914	18,892	(²)	(²)	14,166	3,396	1,277	45	8	.....
Printing and publishing, newspapers and periodicals.....	1919	10,120	1,209	117	7,004	1,170	341	98	81	1
	1914	9,021	(²)	(²)	7,280	427	870	243	192	.....
Roofing materials.....	1919	2,722	49	.....	1,406	3	37	928	299	.....
	1914	862	(²)	(²)	10	3	88	461	310	.....
Slaughtering and meat packing.....	1919	64,179	1,222	70	49,017	3,504	245	22	93	.....
	1914	31,315	(²)	(²)	1,007	442	1,096	2,700	20,027	43
Smelting and refining, zinc.....	1919	4,224	.....	.....	1,254	.....	.....	2,970	.....	.....
	1914	3,573	(²)	(²)	70	.....	.....	1,054	1,890	559
Soap.....	1919	2,270	134	31	877	231	161	757	79	.....
	1914	2,144	(²)	(²)	5	194	24	1,300	621	.....
Stamped and enameled ware, not elsewhere specified.....	1919	2,450	.....	438	994	827	.....	191	.....	.....
	1914	1,572	(²)	(²)	100	224	82	1,039	67	.....
Steam fittings and steam and hot-water heating apparatus.....	1919	9,028	32	5	9,414	163	231	20	4	.....
	1914	2,579	(²)	(²)	32	200	222	1,695	430	.....
Stoves and hot-air furnaces.....	1919	4,880	785	4	2,492	89	1,093	413	54	.....
	1914	3,323	(²)	(²)	632	80	963	249	1,399	.....
Structural ironwork, not made in steel works or rolling mills.....	1919	3,790	179	18	220	1,500	841	985	47	.....
	1914	4,933	(²)	(²)	375	697	1,751	1,852	258	.....
Tinware, not elsewhere specified.....	1919	5,027	34	80	.....	4,954	419	422	18	.....
	1914	3,383	(²)	(²)	63	119	721	2,053	427	.....
Tobacco, cigars and cigarettes.....	1919	3,363	1,051	503	1,358	324	107	24	1	.....
	1914	6,467	(²)	(²)	4,355	587	380	1,094	36	4
Tools, not elsewhere specified.....	1919	2,098	431	14	392	1,177	197	767	50	.....
	1914	1,115	(²)	(²)	40	431	410	204	30	.....
Wire.....	1919	2,775	.....	.....	296	.....	15	216	1,338	860
	1914	2,763	(²)	(²)	655	.....	.....	1,038	816	254
All other industries.....	1919	141,845	19,159	6,047	38,446	37,428	9,099	20,247	8,399	3,050
	1914	108,060	(²)	(²)	15,295	20,788	24,321	22,318	19,566	5,772
Total for cities.....	1919	555,930	93,080	25,815	197,604	134,153	31,788	47,228	11,672	14,540
	1914	408,976	(²)	(²)	69,693	81,497	97,862	82,802	60,481	16,641
ALTON.....	1919	3,236	1,774	.....	289	293	641	193	42	4
	1914	2,662	(²)	(²)	135	141	184	1,521	595	86
AURORA.....	1919	6,608	172	21	1,674	3,674	219	768	70	10
	1914	4,777	(²)	(²)	997	1,090	1,817	395	756	22
BELLEVILLE.....	1919	3,160	183	319	1,255	591	775	28	9	.....
	1914	2,450	(²)	(²)	511	207	1,300	399	33	.....
BERWYN.....	1919	25	10	.....	3	1	6	.....	5	.....
BLOOMINGTON.....	1919	2,818	30	.....	2,287	138	246	47	61	9
	1914	2,384	(²)	(²)	335	31	292	180	113	1,433
BLUE ISLAND.....	1919	1,180	8	177	346	409	10	121	93	16
CAIRO.....	1919	1,792	13	85	110	39	245	827	388	84
	1914	1,522	(²)	(²)	73	20	107	743	467	107
CANTON.....	1919	1,296	89	31	83	989	84	.....	16	4
	1914	920	(²)	(²)	139	87	17	658	16	3

¹ Includes 48 and under for 1914 and 1909.² Corresponding figures not available.

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TABLE 9.—AVERAGE NUMBER OF WAGE EARNERS, BY PREVAILING HOURS OF LABOR PER WEEK, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919 AND 1914—Continued.

INDUSTRY AND CITY.	Census year.	Total.	IN ESTABLISHMENTS WHERE THE PREVAILING HOURS OF LABOR PER WEEK WERE—							
			44 and under.	Between 44 and 48.	48.1	Between 48 and 54.	54.	Between 54 and 60.	60.	Over 60.
CENTRALIA.....	1919	1,003	12	589	62	320	10	0	4	
	1914	237	(¹)	(²)	56	25	116	7	33	
CHAMPAIGN.....	1919	1,063	320	295	334	16	42	50		
	1914	382	(¹)	(²)	88	51	57	80	68	
CHICAGO.....	1919	403,942	81,265	21,655	144,806	102,549	16,522	23,305	4,284	9,496
	1914	313,710	(¹)	(²)	54,334	67,035	80,985	60,110	43,683	7,563
CHICAGO HEIGHTS.....	1919	5,328	123	433	1,394	821	1,155	1,087	250	65
	1914	4,288	(¹)	(²)	382	1,129	709	953	1,012	103
CICERO.....	1919	14,754	727	9	11,673	1,030	48	1,267		
DANVILLE.....	1919	3,343	75	161	2,096	64	243	523	145	66
	1914	2,109	(¹)	(²)	246	120	1,852	160	101	130
DECATUR.....	1919	5,693	84	37	1,758	845	1,476	343	1,041	109
	1914	4,003	(¹)	(²)	1,550	151	1,082	614	485	121
EAST ST. LOUIS.....	1919	8,785	311		4,170	690	676	2,046	751	141
	1914	5,863	(¹)	(²)	397	307	1,550	412	2,007	1,190
ELGIN.....	1919	6,846	4,012	59	1,826	504	382	46	13	4
	1914	5,529	(¹)	(²)	573	3,559	827	335	220	10
EVANSTON.....	1919	1,405	219		385	36	50	699	4	12
	1914	924	(¹)	(²)	106	34	111	647	18	8
FOREST PARK.....	1919	192	67	29	18	61	10		7	
FREEPORT.....	1919	3,177	70		469	1,197	415	938	61	26
	1914	2,506	(¹)	(²)	663	50	424	864	551	9
GALESBURG.....	1919	2,222	103	110	1,185	156	256	164	79	109
	1914	1,362	(¹)	(²)	203	38	725	253	108	30
GRANITE CITY.....	1919	5,493	19	81	4,098	209	110	999		27
	1914	5,090	(¹)	(²)	1,462	2,019	15	1,027	590	7
HERRIN.....	1919	52			29		3	14	3	3
JACKSONVILLE.....	1919	1,091	5	30	749	10	156	3	100	38
	1914	932	(¹)	(²)	340	24	63	412	60	33
JOLIET.....	1919	11,259	586	7	3,691	684	443	731	1,608	3,509
	1914	4,099	(¹)	(²)	653	349	118	554	704	2,621
KANKAKEE.....	1919	1,959	59	68	810	145	256	519	99	3
	1914	1,430	(¹)	(²)	158	120	179	765	184	24
Kewanee.....	1919	3,909	12	406	3,873	39	34	32	13	
	1914	2,837	(¹)	(²)	24	761	407	1,590	47	8
LA SALLE.....	1919	1,792	1		107	4	66	1,562	23	29
	1914	1,214	(¹)	(²)	53	4	10		885	262
LINCOLN.....	1919	104		5	47	22	42		67	11
	1914	239	(¹)	(²)	105	7	72	34	21	
MATTOON.....	1919	1,134		235	420	17	97	232	133	
	1914	735	(¹)	(²)	37		551	11	93	43
MAYWOOD.....	1919	2,217	583		33	1,615	6	27	3	
MOLINE.....	1919	5,444	635	38	66	3,514	353	670	135	33
	1914	5,053	(¹)	(²)	1,482	237	621	2,032	678	3
MURPHYSBORO.....	1919	1,139			489	402	163	14	67	4
OAK PARK.....	1919	383	116		137	68	2	52	6	2
	1914	203	(¹)	(²)	56	104	35	65	8	
OTTAWA.....	1919	729	69		147	15	73	89	336	
PERIN.....	1919	934			554		57	131	130	62
	1914	634	(¹)	(²)	78	1	88	2	454	11
PEORIA.....	1919	7,977	57 6	440	2,319	950	2,426	739	343	174
	1914	6,285	(¹)	(²)	1,647	346	842	1,191	1,775	484
QUINCY.....	1919	4,443	127	7	765	385	1,620	1,062	351	126
	1914	3,067	(¹)	(²)	604	169	1,004	167	894	229
ROCK ISLAND.....	1919	3,208	125	224	410	1,511	248	641	19	30
	1914	1,837	(¹)	(²)	391	39	559	797	34	17
ROCKFORD.....	1919	14,992	452	9	978	6,718	337	5,762	616	120
	1914	10,472	(¹)	(²)	879	947	986	4,593	2,963	194
SPRINGFIELD.....	1919	5,365	240	76	843	2,857	860	237	150	102
	1914	4,157	(¹)	(²)	934	1,322	297	933	538	133
STREATOR.....	1919	1,301	3	71	957	158	94		10	8
	1914	1,763	(¹)	(²)	252	978	325	100	75	33
URBANA.....	1919	509	38	3	255	9	41	99	26	38
WAUKEGAN.....	1919	2,538	21	124	113	734	177	1,190	67	112
	1914	2,276	(¹)	(²)	35	33	132	197	256	1,623

¹ Includes 48 and under for 1914 and 1909.² Corresponding figures not available.

TABLE 10.—SIZE OF ESTABLISHMENTS, BY AVERAGE NUMBER OF WAGE EARNERS, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919.

INDUSTRY AND CITY.	TOTAL.		ESTABLISHMENTS EMPLOYING—																	
	Establishments.	Wage earners (average number).	No wage earners.	1 to 5 wage earners, inclusive.	6 to 20 wage earners, inclusive.	21 to 50 wage earners, inclusive.	51 to 100 wage earners, inclusive.	101 to 250 wage earners, inclusive.	251 to 500 wage earners, inclusive.	501 to 1,000 wage earners, inclusive.	Over 1,000 wage earners.									
			Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.		
All industries.....	18,593	653,114	2,845	8,277	18,770	3,574	40,614	1,808	59,187	921	99,033	718	110,471	236	81,846	144	98,326	70	177,807	
Agricultural implements.....	68	22,548	5	13	39	7	66	4	141	11	768	13	1,805	5	1,780	7	5,910	4	11,948	
Automobile bodies and parts.....	204	5,298	16	72	178	59	692	31	1,017	16	1,070	8	1,248	2	1,083	2	1,083	2	1,083	
Automobiles.....	25	5,507	1	1	5	4	59	4	164	7	506	3	367	2	622	3	1,784	3	1,784	
Automobile repairing.....	785	120	51	611	1,287	107	998	11	297	2	122	3	416	2	695	2	695	2	695	
Bookbinding and blank-book making.....	113	2,395	10	35	82	45	479	14	446	4	206	3	457	2	695	2	695	2	695	
Boots and shoes.....	51	7,684	1	8	21	8	90	4	155	7	537	10	1,668	10	3,335	8	1,874	8	1,874	
Boxes, paper and other, not elsewhere specified.....	87	5,923	.....	8	25	23	302	30	1,039	12	880	7	1,094	7	2,583	7	2,583	7	2,583
Boxes, wooden packing, except cigar boxes.....	63	4,524	2	16	42	13	127	11	365	8	599	8	1,200	3	1,021	2	1,170	2	1,170	
Brass, bronze, and copper products.....	90	3,174	4	13	38	37	461	21	670	5	371	9	1,322	1	312	2	1,153	1	1,153	
Bread and other bakery products.....	2,345	12,418	361	1,093	3,821	241	2,180	25	750	7	485	13	1,923	2	910	2	1,153	1	1,191	
Brick and tile, terra-cotta, and fire-clay products.....	144	5,627	3	40	107	27	265	35	1,154	26	1,810	11	1,634	2	657	.....	.....	.....	.....
Carriages and wagons, including repairs.....	99	2,303	21	54	135	11	112	4	162	2	165	4	459	2	621	1	689	.....	.....
Cars and general shop construction and repairs by electric-railroad companies.....	49	3,151	.....	18	52	9	114	13	382	3	251	5	790	.....	.....	.....	.....	1	1,562
Cars and general shop construction and repairs by steam-railroad companies.....	133	40,219	.....	5	17	17	233	19	657	23	1,756	30	4,060	19	7,376	10	6,688	10	13,532
Cars, steam-railroad, not including operations of railroad companies.....	19	13,775	2	20	2	74	3	206	4	821	1	413	1	571	6	11,664	6	11,664
Chemicals.....	33	3,004	.....	8	19	8	97	7	106	6	386	2	234	1	477	.....	.....	1	1,595
Clothing, men's.....	502	32,896	12	88	234	166	2,153	133	4,390	56	4,024	25	3,754	13	4,063	6	3,005	3	10,373	
Clothing, women's.....	398	10,278	11	85	251	158	1,868	90	2,827	34	2,355	20	2,977	2	1,021	.....	.....	.....	.....
Confectionery and ice cream.....	462	8,779	76	230	472	81	900	42	1,379	17	1,271	12	2,000	1	351	2	1,310	1	1,087	
Copper, tin, and sheet-iron work.....	391	2,232	59	254	521	58	651	13	493	6	401	1	166	2	618	1	548	.....	.....
Corsets.....	22	2,273	.....	3	3	4	47	5	107	2	134	5	758	2	618	1	548	.....	.....
Electrical machinery, apparatus, and supplies.....	161	27,290	4	33	96	46	568	23	838	21	1,544	18	2,802	7	2,367	4	2,731	5	16,294	
Engines, steam, gas, and water.....	25	8,645	.....	3	9	4	47	4	154	4	233	4	617	.....	.....	2	1,524	4	6,061
Flour-mill and gristmill products.....	322	2,740	101	123	283	64	724	22	652	7	483	5	593	.....	.....	.....	.....	.....	.....
Food preparations, not elsewhere specified.....	134	4,061	12	48	128	36	432	18	597	13	895	4	559	2	848	1	607	.....	.....
Foundry and machine-shop products.....	870	45,879	45	241	623	228	2,764	152	4,985	98	7,232	72	11,729	16	5,444	16	10,834	2	2,263	
Furniture.....	286	12,204	18	72	179	62	756	58	1,955	40	2,805	31	4,537	3	862	2	1,110	.....	.....
Gas, illuminating and heating.....	70	4,430	2	25	75	18	215	16	515	2	155	6	720	.....	.....	.....	.....	1	2,750
Glass.....	14	4,065	.....	2	5	2	22	1	31	1	66	3	480	3	1,102	1	599	.....	1,760
Hardware.....	84	4,914	3	24	64	20	275	15	541	8	547	9	1,376	3	876	2	1,235	.....	.....
Instruments, professional and scientific.....	33	3,621	4	7	22	8	71	6	186	4	310	3	498	.....	.....	.....	.....	1	2,534
Iron and steel, blast furnaces.....	5	2,129	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	876	2	1,253	.....	.....
Iron and steel, steel works and rolling mills.....	32	20,177	.....	.....	.....	1	14	1	36	3	272	9	1,641	8	3,085	5	3,439	5	11,690
Iron and steel forgings, not made in steel works or rolling mills.....	24	2,328	.....	2	4	5	66	7	269	3	232	4	596	2	644	1	517	.....	.....
Knit goods.....	58	5,095	7	12	25	9	100	6	234	7	516	10	1,373	6	2,245	1	597	.....	.....
Leather, tanned, curried, and finished.....	29	4,434	1	2	5	3	37	5	134	6	421	6	945	3	1,117	3	1,775	.....	.....
Liquors, malt.....	61	2,796	.....	5	19	16	196	25	824	9	699	5	773	1	285	.....	.....	.....	.....
Lumber, planing-mill products, not including planing mills connected with sawmills.....	269	5,147	21	96	208	81	945	40	1,250	23	1,555	7	804	1	330	.....	.....	.....	.....
Machine tools.....	28	3,273	1	6	25	5	57	4	134	5	381	3	431	2	768	2	1,477	.....	.....
Millinery and lace goods, not elsewhere specified.....	121	4,880	1	30	93	48	616	23	755	7	441	7	995	4	1,391	1	539	.....	.....
Musical instruments, pianos.....	33	6,991	1	.....	.....	2	20	5	182	4	335	13	1,896	4	1,408	3	1,917	1	1,263
Paints.....	50	2,640	1	18	42	8	83	6	223	11	788	5	652	.....	.....	.....	.....	.....	.....
Petroleum, refining.....	13	2,448	.....	1	5	4	56	.....	.....	3	237	2	302	1	280	2	1,568	.....	.....
Pickles, preserves, and sauces.....	68	2,255	7	29	70	12	158	7	232	6	442	5	682	2	671	.....	.....	.....	.....
Plumbers' supplies, not elsewhere specified.....	18	2,096	1	2	6	3	27	6	100	2	158	2	244	.....	.....	2	1,471	.....	.....
Printing and publishing, book and job.....	1,240	21,639	333	498	1,167	226	2,557	109	3,552	31	2,258	30	4,727	8	2,485	3	2,165	2	2,728	
Printing and publishing, newspapers and periodicals.....	1,204	10,120	453	554	1,242	121	1,285	46	1,480	15	1,063	8	1,357	4	1,311	3	2,382	.....	.....
Roofing materials.....	25	2,722	.....	5	12	3	40	5	194	4	302	4	734	3	924	1	516	.....	.....
Slaughtering and meat packing.....	72	54,179	1	7	18	12	171	11	384	15	1,043	6	1,081	9	3,255	2	1,676	9	46,551	
Smelting and refining, zinc.....	7	4,224	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	1,317	3	2,712	.....	.....
Soap.....	29	2,270	.....	12	28	7	71	4	111	2	162	2	300	.....	.....	2	1,598	.....	.....
Stamped and enameled ware, not elsewhere specified.....	22	2,450	.....	2	5	6	69	6	218	3	216	3	576	1	438	1	928	.....	.....
Steam fittings and steam and hot-water heating apparatus.....	28	9,928	.....	5	17	10	135	8	262	1	58	2	412	.....	.....	.....	.....	2	9,044
Stoves and hot-air furnaces.....	56	4,880	1	12	42	7	87	9	279	12	896	11	1,648	2	543	2	1,385	.....	.....
Structural ironwork, not made in steel works or rolling mills.....	115	3,790	5	26	76	44	573	21	764	9	613	10	1,764	.....	.....	.....	.....	.....	.....
Tinware, not elsewhere specified.....	28	5,927	1	4	14	3	39	6	174	3	248	3	396	2	542	4	2,370	2	2,144	
Tobacco, cigars and cigarettes.....	1,182	3,363	530	520	996	109	1,056	13	345	5	203	5	673	.....	.....	.....	.....	.....	.....
Tools, not elsewhere specified.....	114	2,998	9	48	125	31	347	13	459	7	522	4	541	1	364	1	640	.....	.....
Wire.....	10	2,775	.....	.....	.....	1	15	.....	.....	2	166	2	292	4	1,537	1	765	.....	.....
All other industries.....	5,570	142,143	649	2,548	6,728	1,224	13,994	589	10,033	268	19,023	199	30,276	55	18,727	30	120,449	8	14,893	

TABLE 10.—SIZE OF ESTABLISHMENTS, BY AVERAGE NUMBER OF WAGE EARNERS, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919—Continued.

INDUSTRY AND CITY.	TOTAL.		ESTABLISHMENTS EMPLOYING—																	
	Establishments.	Wage earners (average number).	No wage earners.		1 to 5 wage earners, inclusive.		6 to 20 wage earners, inclusive.		21 to 50 wage earners, inclusive.		51 to 100 wage earners, inclusive.		101 to 250 wage earners, inclusive.		251 to 500 wage earners, inclusive.		501 to 1,000 wage earners, inclusive.		Over 1,000 wage earners.	
			Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.
Total for cities.....	14,066	555,930	1,998	5,662	13,579	3,087	35,390	1,589	52,157	759	54,350	599	92,560	187	64,903	127	85,668	58	157,314	
ALTON.....	60	3,236	5	28	79	11	115	6	141	4	337	6	804	...	...	...	...	1	1,780
AURORA.....	133	6,608	17	47	109	35	383	15	494	5	336	8	1,305	3	844	2	1,387	1	1,750	
BELLEVIEW.....	141	3,160	23	66	143	24	233	10	319	8	656	7	1,004	3	805	...	...	...	...
BERWYN.....	15	25	5	9	15	1	10	...	...	...	...	...	...	...	...	...	...	...	...
BLOOMINGTON.....	83	2,818	12	43	93	16	107	7	227	4	285	1	212	...	...	...	...	1	1,834
BLUE ISLAND.....	34	1,180	6	13	32	4	43	3	85	5	335	2	297	1	388	...	...	...	...
CAIRO.....	55	1,792	1	18	46	22	243	7	252	4	290	2	408	...	...	1	553	...	...
CANTON.....	33	1,296	2	16	40	7	68	5	147	2	137	...	...	...	...	1	904	...	...
CENTRALIA.....	30	1,003	5	16	45	6	55	...	...	...	...	2	313	...	...	1	590	...	...
CHAMPAIGN.....	80	1,063	10	41	88	21	233	3	101	4	346	...	...	1	295	...	...	...	...
CHICAGO.....	10,537	403,942	1,576	4,131	10,065	2,362	27,201	1,226	40,001	549	38,990	434	66,366	131	45,562	87	57,543	41	118,214	
CHICAGO HEIGHTS.....	103	5,328	11	36	59	16	173	24	1,131	...	...	12	2,167	3	1,261	1	537	...	...
CICERO.....	92	14,754	11	39	58	19	239	9	268	5	370	6	925	...	...	2	1,572	1	11,322
DANVILLE.....	112	3,343	21	41	81	29	327	8	267	8	613	3	483	1	365	...	...	1	1,207
DECATUR.....	103	5,693	10	36	87	20	245	15	556	12	891	7	1,054	...	...	2	1,405	1	1,365
EAST ST. LOUIS.....	157	8,785	20	59	138	21	267	21	775	15	1,139	13	1,921	5	1,636	2	1,314	1	1,595	
ELGIN.....	80	6,846	7	27	63	20	235	9	306	9	597	5	749	1	296	1	829	1	3,771	
EVANSTON.....	101	1,405	20	55	107	16	190	5	143	3	212	1	113	...	...	1	670	...	...
FOREST PARK.....	28	192	6	12	25	8	77	1	29	1	61	...	...	...	...	...	...	...	...
FREEPORT.....	76	3,177	6	35	73	16	201	7	206	6	390	1	237	2	714	2	1,356	...	...
GALESBURG.....	77	2,222	5	37	77	17	188	6	186	9	666	2	288	...	...	1	817	...	...
GRANITE CITY.....	37	5,493	8	12	31	5	58	4	115	1	72	1	174	1	258	4	3,142	1	1,643	
HERRIN.....	12	52	2	6	15	4	37	...	...	...	...	...	...	...	...	...	...	...	...
JACKSONVILLE.....	59	1,091	10	28	64	13	153	1	31	3	198	4	645	...	...	...	...	...	...
JOLIET.....	106	11,259	24	68	165	27	331	15	517	10	727	11	1,968	8	2,872	1	513	2	4,166	
KANKAKEE.....	54	1,950	2	29	76	11	108	5	192	2	148	3	423	1	437	1	575	...	...
KEWANEE.....	37	3,900	4	21	47	3	40	5	132	1	53	...	...	1	406	1	733	1	2,498
LA SALLE.....	38	1,792	6	20	41	5	45	3	81	1	69	1	241	1	367	1	948	...	...
LINCOLN.....	33	194	4	17	35	11	120	1	39	...	...	...	...	...	...	...	...	...	...
MATTOON.....	65	1,134	2	43	69	13	140	3	99	...	...	4	826	...	...	...	...	...	...
MAYWOOD.....	27	2,217	2	18	30	2	27	2	51	...	...	...	...	...	...	2	1,035	1	1,074
MOLINE.....	61	5,444	3	17	40	15	163	6	178	7	500	8	1,193	2	798	2	1,545	1	1,027	
MURPHYSBORO.....	28	1,139	3	13	32	5	54	4	120	...	...	1	110	2	823	...	...	...	...
OAK PARK.....	44	383	14	18	33	6	69	4	113	1	58	1	110	...	...	...	...	...	...
OTTAWA.....	62	729	3	37	79	12	118	6	188	3	210	1	134	...	...	...	...	...	...
PEKIN.....	37	934	3	19	40	8	83	4	175	1	78	1	103	1	455	...	...	...	...
PEORIA.....	253	7,977	33	95	263	64	782	28	953	16	1,197	13	2,220	3	823	...	...	1	1,739
QUINCY.....	183	4,443	19	81	206	39	445	22	741	11	767	7	1,003	4	1,281	...	...	...	...
ROCK ISLAND.....	83	3,208	9	33	82	21	231	11	385	4	335	2	433	1	330	2	1,412	...	...
ROCKFORD.....	312	14,992	26	119	317	55	653	46	1,387	31	2,283	20	2,905	8	2,721	7	4,726	...	...
SPRINGFIELD.....	181	5,365	23	78	227	44	500	18	603	10	607	4	570	2	681	1	873	1	1,214	
STREATOR.....	69	1,301	5	40	82	15	145	4	112	3	217	1	146	...	...	1	599	...	...
URBANA.....	43	509	9	20	34	10	119	2	60	1	90	1	197	...	...	...	...	...	...
WAUKEGAN.....	52	2,538	5	24	48	9	115	8	242	...	...	4	513	1	485	...	...	1	1,135

TABLE 11.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS: 1919, 1914, AND 1909.

VALUE OF PRODUCT.	NUMBER OF ESTABLISHMENTS.			AVERAGE NUMBER OF WAGE EARNERS.			VALUE OF PRODUCTS.			VALUE ADDED BY MANUFACTURE.		
	1919	1914	1909	1919	1914	1909	1919	1914	1909	1919	1914	1909
All classes.....	18,593	18,388	18,026	653,114	506,943	465,764	\$5,425,244,694	\$2,247,322,819	\$1,919,276,594	\$1,936,974,248	\$907,139,412	\$758,349,904
Less than \$5,000.....	3,725	6,161	6,181	1,908	6,484	7,000	9,757,963	15,231,218	15,040,808	5,979,405	9,884,858	9,884,314
\$5,000 to \$20,000.....	5,360	5,899	5,823	12,639	24,881	27,327	58,637,492	60,715,479	59,794,517	32,751,008	36,484,976	36,175,677
\$20,000 to \$100,000.....	5,104	3,833	3,773	49,521	62,952	65,907	235,014,448	176,457,380	170,400,943	124,132,828	96,275,087	91,858,220
\$100,000 to \$500,000.....	2,916	1,804	1,976	122,637	189,953	185,743	678,032,686	398,781,306	595,294,165	340,751,214	310,251,830	280,112,984
\$500,000 to \$1,000,000.....	689	355	273	76,662	222,673	179,787	488,206,611	253,829,149	1,078,746,101	234,198,879	454,242,661	340,338,700
\$1,000,000 and over.....	799	336	273	389,686	222,673	179,787	3,957,535,494	1,342,308,287	1,078,746,101	1,199,160,914	454,242,661	340,338,700
PER CENT DISTRIBUTION.												
All classes.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than \$5,000.....	20.0	33.5	34.3	0.3	1.3	1.5	0.2	0.7	0.8	0.3	1.1	1.3
\$5,000 to \$20,000.....	28.8	32.1	32.3	1.9	4.9	5.9	1.1	2.7	3.1	1.7	4.0	4.8
\$20,000 to \$100,000.....	27.5	20.8	20.9	7.6	12.4	14.2	4.3	7.9	8.9	6.4	10.6	12.1
\$100,000 to \$500,000.....	15.7	9.8	11.0	18.8	37.5	39.9	12.5	17.7	31.0	17.6	34.2	36.9
\$500,000 to \$1,000,000.....	3.7	1.9	1.5	11.7	43.9	38.6	9.0	11.3	16.2	12.1	50.1	44.9
\$1,000,000 and over.....	4.3	1.8	1.5	59.7	43.9	38.6	72.9	59.7	56.2	61.9	50.1	44.9

TABLE 12.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS, FOR SELECTED INDUSTRIES: 1919 AND 1914.

INDUSTRY AND VALUE OF PRODUCT.	NUMBER OF ESTABLISHMENTS.				AVERAGE NUMBER OF WAGE EARNERS.				VALUE OF PRODUCTS.				VALUE ADDED BY MANUFACTURE.			
	1919	1914	Per cent distribution.		1919	1914	Per cent distribution.		1919	1914	Per cent distribution.		1919	1914	Per cent distribution.	
			1919	1914			1919	1914			1919	1914			1919	1914
AGRICULTURAL IMPLEMENTS.....	68	73	100.0	100.0	22,548	19,556	100.0	100.0	\$128,254,716	\$55,337,603	100.0	100.0	\$33,124,896	\$32,460,102	100.0	100.0
Less than \$5,000.....	9	12	13.2	16.4	9	14	(1)	0.1	25,108	32,479	(1)	(1)	12,956	16,745	(1)	0.1
\$5,000 to \$20,000.....	6	12	8.8	16.4	23	52	0.1	0.3	71,444	130,009	0.1	0.2	26,390	57,733	(1)	0.2
\$20,000 to \$100,000.....	11	12	16.2	16.4	118	216	0.5	1.1	521,573	800,011	0.4	0.9	233,810	303,100	0.4	0.9
\$100,000 to \$500,000.....	14	14	20.6	19.2	1,014	3,028	4.5	15.5	4,084,408	3,423,583	3.2	5.2	2,036,268	2,472,330	3.2	18.8
\$500,000 to \$1,000,000.....	5	8	7.4	11.0	531	2.4	2.4		3,367,668	5,418,377	2.6	8.3	1,840,307	2,000,000	2.0	
\$1,000,000 and over.....	23	15	33.8	20.6	20,833	16,246	92.5	83.1	120,214,515	55,733,144	93.7	85.3	58,975,165	27,010,194	93.4	85.1
AUTOMOBILES.....	25	25	100.0	100.0	3,507	1,309	100.0	100.0	77,018,464	7,633,420	100.0	100.0	15,986,692	2,024,810	100.0	100.0
Less than \$20,000.....	3	3	12.0		17		1.3		12,000		0.2		1,420		0.1	
\$20,000 to \$100,000.....	11	10	40.0		110		8.4		416,257		5.5		205,017		7.8	
\$100,000 to \$500,000.....	11	7	44.0	28.0	340	1,182	10.0	90.3	2,333,879	1,712,009	3.0	22.4	1,000,269	2,421,213	6.0	92.3
\$500,000 to \$1,000,000.....	5	5	20.0	20.0	335		9.6		4,113,606	5,491,504	5.3	71.0	1,615,807		10.1	
\$1,000,000 and over.....	9		36.0		2,823		80.5		70,570,889		91.6		13,410,616		83.9	
BOOTS AND SHOES.....	51	47	100.0	100.0	7,684	6,071	100.0	100.0	39,402,383	16,891,626	100.0	100.0	14,184,064	5,909,081	100.0	100.0
Less than \$5,000.....	3	9	5.9	19.1	4	8	0.1	0.1	4,664	15,540	(1)	0.1	2,781	9,836	(1)	0.2
\$5,000 to \$20,000.....	7	9	13.7	19.1	25	71	0.3	1.2	82,652	99,301	0.2	0.6	41,971	56,926	0.3	1.0
\$20,000 to \$100,000.....	8	6	15.7	12.8	199	101	2.6	1.7	501,557	224,869	1.3	1.3	246,179	119,204	1.7	2.0
\$100,000 to \$500,000.....	12	15	23.5	31.9	866	2,795	11.3	46.0	3,405,642	4,526,313	8.6	26.9	1,134,313	2,557,599	8.0	43.3
\$500,000 to \$1,000,000.....	7	4	13.7	8.5	1,342		17.5		5,460,359	3,202,982	13.9	19.0	2,020,345		14.3	
\$1,000,000 and over.....	14	4	27.5	8.5	5,248	3,066	68.3	51.0	29,947,509	8,812,531	70.0	52.2	10,729,475	3,165,516	75.0	53.6
BREAD AND OTHER BAKERY PRODUCTS.....	2,345	2,278	100.0	100.0	12,418	10,404	100.0	100.0	102,064,190	45,250,060	100.0	100.0	41,007,027	21,611,189	100.0	100.0
Less than \$5,000.....	238	757	10.1	33.2	69	546	0.6	5.2	721,834	2,283,939	0.7	5.0	202,238	1,119,398	0.7	5.2
\$5,000 to \$20,000.....	1,108	1,238	47.2	54.3	1,467	2,966	11.8	28.5	13,170,583	12,331,251	12.8	27.3	4,760,718	5,706,541	11.6	26.7
\$20,000 to \$100,000.....	911	243	38.8	10.7	3,998	2,106	32.2	20.2	32,925,808	8,744,059	32.1	19.3	11,180,876	3,081,081	27.2	17.0
\$100,000 to \$500,000.....	65	28	2.8	1.2	1,398	2,307	11.0	22.8	12,763,497	5,884,111	12.4	11.9	4,390,016	2,472,502	10.7	21.8
\$500,000 to \$1,000,000.....	11	7	0.5	0.3	1,152		9.3		8,039,514	5,108,314	7.8	11.3	3,859,720		9.4	
\$1,000,000 and over.....	12	5	0.5	0.2	4,304	2,419	35.1	23.3	35,038,954	11,398,386	34.1	26.2	10,583,459	6,331,007	40.4	29.3
CARS AND GENERAL SHOP CONSTRUCTION AND REPAIRS BY STEAM-RAILROAD COMPANIES.....	133	94	100.0	100.0	40,219	28,682	100.0	100.0	103,219,253	41,496,130	100.0	100.0	63,418,426	23,177,606	100.0	100.0
Less than \$20,000.....	7	7	5.3	7.4	32	79	0.1	0.3	76,325	103,051	0.1	0.2	57,503	60,997	0.1	0.3
\$20,000 to \$100,000.....	30	25	22.6	26.6	721	1,005	1.8	3.5	1,622,406	1,311,183	1.6	3.2	1,181,040	814,336	1.0	3.5
\$100,000 to \$500,000.....	48	37	36.1	39.4	5,090	14,120	12.7	49.2	12,430,974	9,418,313	12.0	22.7	8,409,941	11,894,687	13.3	51.3
\$500,000 to \$1,000,000.....	21	16	15.8	17.0	6,027		15.0		15,569,160	11,398,224	15.1	27.5	9,730,948		15.4	
\$1,000,000 and over.....	27	9	20.3	9.6	28,349	13,478	70.5	47.0	73,520,888	19,264,759	71.2	46.4	44,020,334	10,401,616	69.4	44.9
CARS, STEAM-RAILROAD, NOT INCLUDING OPERATIONS OF RAILROAD COMPANIES.....	19	23	100.0	100.0	13,775	18,000	100.0	100.0	125,217,722	61,315,038	100.0	100.0	42,780,988	20,886,871	100.0	100.0
\$20,000 to \$100,000.....	8	18	15.8	34.8	61	7,204	0.4	1.5	154,257	7,410,060	0.1	0.7	88,056	7,213,780	0.2	1.0
\$100,000 to \$500,000.....	25	20	26.3	26.1	2,591	1,139	4.3	0.3	2,194,874	2,132,211	1.5	3.5	1,030,775	2,994,744	2.4	4.8
\$1,000,000 and over.....	11	9	57.9	39.1	13,123	10,697	95.3	92.2	123,128,591	58,772,761	98.3	95.9	41,692,157	19,678,847	97.4	94.2
CLOTHING, MEN'S.....	502	578	100.0	100.0	32,896	34,152	100.0	100.0	197,610,795	87,512,126	100.0	100.0	106,368,505	47,008,902	100.0	100.0
Less than \$5,000.....	23	120	4.6	20.8	31	537	0.1	1.6	60,609	317,546	(1)	0.4	57,546	279,857	0.1	0.6
\$5,000 to \$20,000.....	85	208	16.9	36.0	644	3,281	2.0	9.6	1,060,280	2,207,486	0.5	2.5	899,496	1,066,610	0.8	4.2
\$20,000 to \$100,000.....	203	135	40.4	23.4	4,307	4,813	13.4	14.1	9,490,327	5,844,854	4.8	6.7	7,732,470	4,000,557	7.3	8.5
\$100,000 to \$500,000.....	114	80	22.7	13.8	4,005	7,473	14.9	21.9	28,088,079	18,793,121	14.2	21.5	14,180,712	15,823,230	13.3	33.7
\$500,000 to \$1,000,000.....	40	16	8.0	2.8	2,989		9.1		20,046,960	12,102,554	14.7	13.8	14,510,505		13.6	
\$1,000,000 and over.....	37	19	7.4	3.3	19,930	18,048	60.6	52.8	129,870,534	48,246,692	65.7	55.1	68,987,707	24,938,648	64.9	53.1
CLOTHING, WOMEN'S.....	398	241	100.0	100.0	10,273	8,113	100.0	100.0	68,044,283	20,750,550	100.0	100.0	26,908,606	9,631,354	100.0	100.0
Less than \$5,000.....	19	23	4.8	9.5	37	64	0.4	0.8	54,940	58,880	0.1	0.3	31,572	41,104	0.1	0.4
\$5,000 to \$20,000.....	52	50	13.1	20.7	191	403	1.9	5.0	625,255	559,729	0.9	2.7	348,402	341,112	1.3	3.6
\$20,000 to \$100,000.....	150	104	37.7	43.2	1,716	2,236	16.7	27.6	7,948,088	5,030,579	11.7	24.2	3,730,823	2,482,112	13.9	25.0
\$100,000 to \$500,000.....	150	59	37.7	24.5	5,487	5,410	53.4	66.7	34,052,562	11,046,199	50.0	53.2	12,969,020	6,066,306	48.2	69.9
\$500,000 to \$1,000,000.....	20	5	5.0	2.1	1,944		18.9		14,002,302	4,056,103	20.0	19.5	5,251,915		19.6	
\$1,000,000 and over.....	7		1.8		903		8.8		11,861,651		16.7		4,593,837		17.0	
COFFEE AND SPICE, ROASTING AND GRINDING.....	32	34	100.0	100.0	1,205	1,103	100.0	100.0	38,188,046	22,044,588	100.0	100.0	8,406,212	4,950,998	100.0	100.0
\$20,000 to \$100,000.....	17	11	21.9	32.4	738	367	3.2	5.6	7,450,370	8,624,520	1.2	2.8	710,497	1,170,151	1.2	3.4
\$100,000 to \$500,000.....	9	12	28.1	35.3	73	343	6.1	28.8	2,111,595	3,740,383	5.5	17.0	513,496	1,258,458	6.0	25.3
\$500,000 to \$1,000,000.....	5	4	15.6	11.8	189		15.7		3,523,132	2,239,930	9.2	10.2	910,945		10.7	
\$1,000,000 and over.....	11	7	34.4	20.6	905	783	75.1	65.6	32,103,549	15,439,755	84.1	70.0	6,967,274	3,627,389	82.0	71.2
CONDENSED MILK.....	38	34	100.0	100.0	1,111	1,178	100.0	100.0	30,437,845	12,757,704	100.0	100.0	5,761,026	2,265,373	100.0	100.0
\$20,000 to \$100,000.....	17	9	18.4	26.5	716	43	1.4	3.0	7,278,087	456,037	0.9	3.7	79,504	82,770	1.4	3.7
\$100,000 to \$500,000.....	12	14	31.6	41.2	116	1,135	10.4	96.4	2,725,890	5,245,182	9.0	41.1	397,397	2,182,008	6.9	96.3
\$500,000 to \$1,000,000.....	6	11	15.8	32.4	170		15.3		5,069,462	7,056,485	16.7	55.3	817,615		14.2	
\$1,000,000 and over.....	13		34.2		809		72.8		22,364,406		73.5		4,465,510		77.5	
CONFECTIONERY AND ICE CREAM.....	462	332	100.0	100.0	8,779	5,829	100.0	100.0	73,090,890	27,061,002	100.0	100.0	32,001,369	12,155,865	100.0	100.0
Less than \$5,000.....	91	77	19.7	23.2	22	78	0.3	1.3	221,141	212,390	0.3	0.8	106,368	105,568	0.3	0.9
\$5,000 to \$20,000.....	137	135	20.7	40.7	244	396	2.8	6.8	1,485,619	1,434,065	2.0	5.3	675,175	661,591	2.1	5.4
\$20,000 to \$100,000.....	143	77	31.0	23.2	971	841	11.1	14.4	6,470,655	8,414,989	8.9	12.6	2,588,099	1,384,032	8.1	11.4
\$100,000 to \$500,000.....	61	34	13.2	10.2	1,873	2,925	21.3	50.2	14,247,011	7,058,937	19.5					

TABLE 12.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS, FOR SELECTED INDUSTRIES: 1919 AND 1914—Con.

INDUSTRY AND VALUE OF PRODUCT.	NUMBER OF ESTABLISHMENTS.				AVERAGE NUMBER OF WAGE EARNERS.				VALUE OF PRODUCTS.				VALUE ADDED BY MANUFACTURE.				
	1919	1914	Per cent distribution.		1919	1914	Per cent distribution.		1919	1914	Per cent distribution.		1919	1914	Per cent distribution.		
			1919	1914			1919	1914			1919	1914			1919	1914	
ELECTRICAL MACHINERY, APPARATUS, AND SUPPLIES.	161	142	100.0	100.0	27,290	16,483	100.0	100.0	\$119,528,022	\$45,067,456	100.0	100.0	\$67,901,723	\$20,288,292	100.0	100.0	
Less than \$5,000.....	8	23	5.0	16.2	5	25	(1)	0.2	23,438	67,948	(1)	0.1	14,335	43,428	(1)	0.2	
\$5,000 to \$20,000.....	20	38	12.4	26.8	69	214	0.3	1.3	198,202	474,427	0.2	1.0	129,170	280,373	0.2	1.1	
\$20,000 to \$100,000.....	45	40	28.0	28.2	522	823	1.9	5.0	2,167,316	2,267,757	1.8	5.0	1,211,674	1,283,395	1.8	4.9	
\$100,000 to \$500,000.....	55	31	34.2	21.8	2,926	3,072	10.7	18.6	13,221,196	6,284,806	11.1	13.8	7,011,967	5,598,873	10.3	21.3	
\$500,000 to \$1,000,000.....	14	6	8.7	4.2	2,271	.....	8.3	.....	9,675,189	4,226,287	8.1	9.3	5,470,161	.....	8.1	.....
\$1,000,000 and over.....	19	4	11.8	2.8	21,497	12,349	78.8	74.9	94,242,681	32,346,233	78.8	70.8	54,058,426	19,076,223	79.6	72.6	
ENGINES, STEAM, GAS, AND WATER.	25	30	100.0	100.0	8,645	1,860	100.0	100.0	45,741,287	3,948,730	100.0	100.0	22,097,112	2,108,792	100.0	100.0	
Less than \$5,000.....	8	8	26.7	19	1.0	31,070	0.8	21,437	1.0
\$5,000 to \$20,000.....	3	4	12.0	13.3	9	17	0.1	0.9	24,631	55,347	0.1	1.4	10,990	26,636	(1)	1.3	
\$20,000 to \$100,000.....	8	9	12.0	30.0	31	145	0.4	7.8	175,914	352,132	0.4	8.9	92,702	222,468	0.4	10.6	
\$100,000 to \$500,000.....	2	1	44.0	30.0	715	1,679	8.3	90.3	3,630,246	3,510,181	7.9	88.9	1,886,780	1,836,251	9.0	87.2	
\$1,000,000 and over.....	8	.....	32.0	.....	7,890	.....	91.3	.....	41,910,476	.....	91.6	.....	20,006,640	.....	90.5	.....
FLOUR-MILL AND GRIST-MILL PRODUCTS.	322	406	100.0	100.0	2,740	2,398	100.0	100.0	116,562,915	49,493,224	100.0	100.0	13,397,493	6,652,317	100.0	100.0	
Less than \$5,000.....	48	113	14.9	27.8	3	49	0.1	2.0	134,680	278,802	0.1	0.6	35,216	61,145	0.3	0.9	
\$5,000 to \$20,000.....	82	104	25.5	25.6	43	132	1.6	5.5	943,549	1,117,454	0.8	2.3	190,587	232,458	1.4	3.5	
\$20,000 to \$100,000.....	80	109	24.8	26.8	213	306	7.8	16.5	4,106,981	4,666,706	3.5	9.4	699,465	793,058	5.2	11.9	
\$100,000 to \$500,000.....	64	61	10.9	15.0	525	1,123	19.2	46.8	14,656,208	14,289,713	12.6	28.9	1,908,020	2,571,777	14.2	38.7	
\$500,000 to \$1,000,000.....	20	8	6.2	2.0	419	.....	15.3	.....	14,003,727	5,390,727	12.0	10.9	2,011,608	.....	15.0	.....
\$1,000,000 and over.....	28	11	8.7	2.7	1,637	698	56.1	29.1	82,718,472	23,749,762	71.0	48.0	8,552,567	2,993,879	63.8	45.0	
FOOD PREPARATIONS, NOT ELSEWHERE SPECIFIED.	134	115	100.0	100.0	4,061	1,790	100.0	100.0	94,240,307	17,020,136	100.0	100.0	13,809,022	4,868,943	100.0	100.0	
Less than \$5,000.....	19	20	14.2	17.4	6	19	0.1	1.1	56,058	50,152	0.1	0.3	28,840	21,164	0.2	0.4	
\$5,000 to \$20,000.....	24	28	17.9	24.3	62	85	1.5	4.7	267,324	297,402	0.3	1.7	123,856	141,888	0.9	2.9	
\$20,000 to \$100,000.....	24	31	17.9	27.0	164	278	4.0	15.5	1,342,057	1,402,675	1.4	8.3	490,662	545,416	3.6	11.2	
\$100,000 to \$500,000.....	34	23	25.4	20.0	633	1,310	15.6	73.2	9,428,073	5,080,857	10.0	28.9	2,463,804	3,025,000	17.8	74.5	
\$500,000 to \$1,000,000.....	11	10	8.2	8.7	443	.....	10.9	.....	7,308,079	6,959,434	7.8	39.5	1,886,425	.....	13.4	.....
\$1,000,000 and over.....	22	3	16.4	2.6	2,753	98	67.8	5.5	75,838,716	3,700,616	80.5	21.3	8,861,486	535,477	64.1	11.0	
FOUNDRY AND MACHINE-SHOP PRODUCTS.	920	821	100.0	100.0	49,450	37,130	100.0	100.0	252,786,130	95,368,347	100.0	100.0	148,450,505	55,841,823	100.0	100.0	
Less than \$5,000.....	102	141	11.1	17.2	61	184	0.1	0.5	272,896	397,721	0.1	0.4	189,106	288,611	0.1	0.5	
\$5,000 to \$20,000.....	150	204	17.0	24.8	541	1,027	1.1	2.8	1,816,877	2,296,595	0.7	2.4	1,182,751	1,501,426	0.8	2.7	
\$20,000 to \$100,000.....	287	308	31.2	37.5	3,624	5,856	7.3	15.8	14,595,284	14,371,910	5.8	15.1	9,003,031	8,516,243	6.1	15.3	
\$100,000 to \$500,000.....	251	124	27.3	15.1	12,457	17,601	25.2	47.1	58,253,172	26,912,171	23.0	28.2	33,340,909	26,247,095	22.5	47.0	
\$500,000 to \$1,000,000.....	61	28	6.6	3.4	7,801	.....	15.8	.....	41,966,848	19,309,945	16.8	20.2	24,934,847	.....	16.8	.....
\$1,000,000 and over.....	63	16	6.8	1.9	24,966	12,562	50.5	33.8	135,881,025	32,080,005	53.8	33.6	79,799,861	19,288,448	53.7	34.5	
FURNITURE.	286	274	100.0	100.0	12,204	13,350	100.0	100.0	60,770,771	31,889,669	100.0	100.0	32,580,432	16,772,613	100.0	100.0	
Less than \$5,000.....	27	34	9.4	12.4	13	61	0.1	0.4	84,630	92,345	0.1	0.3	53,350	61,018	0.2	0.4	
\$5,000 to \$20,000.....	49	61	17.1	22.3	124	345	1.0	2.6	655,519	673,894	0.9	2.1	322,892	400,853	1.0	2.4	
\$20,000 to \$100,000.....	76	92	26.6	33.6	920	2,099	7.5	15.7	3,921,544	4,783,042	6.5	15.0	2,195,002	2,647,641	6.7	15.8	
\$100,000 to \$500,000.....	105	78	36.7	28.5	5,658	8,907	46.0	67.4	26,491,096	17,706,087	43.0	55.5	14,233,346	11,319,609	43.7	67.5	
\$500,000 to \$1,000,000.....	20	6	7.0	2.2	2,757	.....	22.4	.....	14,045,947	4,087,879	23.1	12.8	8,225,167	.....	25.2	.....
\$1,000,000 and over.....	9	3	3.1	1.1	2,822	1,858	23.0	13.9	15,692,026	4,546,332	25.8	14.3	7,550,085	2,348,632	23.2	14.0	
GAS, ILLUMINATING AND HEATING.	70	75	100.0	100.0	4,430	3,890	100.0	100.0	36,930,423	28,170,560	100.0	100.0	19,038,261	20,135,071	100.0	100.0	
Less than \$5,000.....	7	13	10.0	17.3	6	11	0.1	0.3	13,324	30,080	(1)	0.1	5,391	15,408	(1)	0.1	
\$5,000 to \$20,000.....	13	17	18.6	22.7	43	72	1.0	1.9	192,056	200,141	0.5	0.7	88,765	132,901	0.5	0.7	
\$20,000 to \$100,000.....	26	23	37.1	30.7	297	233	6.7	6.0	1,325,336	1,109,291	3.6	3.9	631,569	692,199	3.3	3.4	
\$100,000 to \$500,000.....	15	17	21.4	22.7	494	3,574	11.2	91.9	3,198,087	4,109,382	8.7	14.6	1,607,871	19,294,443	8.8	95.9	
\$500,000 and over.....	9	5	12.9	6.7	3,590	.....	81.0	.....	32,196,020	22,715,666	87.2	80.0	16,046,665	.....	87.4	.....
HARDWARE.	84	80	100.0	100.0	4,914	4,035	100.0	100.0	22,442,643	10,407,290	100.0	100.0	13,767,372	6,017,361	100.0	100.0	
Less than \$5,000.....	8	14	9.6	17.5	5	12	0.1	0.3	18,351	28,968	0.1	0.3	9,240	10,772	0.1	0.3	
\$5,000 to \$20,000.....	16	24	19.0	30.0	50	130	1.0	3.2	211,822	269,196	0.9	2.6	120,960	151,329	0.9	2.5	
\$20,000 to \$100,000.....	25	17	29.8	21.2	369	420	7.5	10.4	1,477,896	907,484	6.0	8.7	838,838	512,522	6.1	8.5	
\$100,000 to \$500,000.....	23	18	27.4	22.5	1,220	3,473	24.8	86.1	5,102,023	4,700,928	22.7	45.2	2,997,093	5,355,738	21.8	88.0	
\$500,000 to \$1,000,000.....	7	7	8.3	8.8	1,227	.....	25.0	.....	4,550,819	4,503,714	20.3	43.3	2,893,430	.....	21.0	.....
\$1,000,000 and over.....	5	.....	6.0	.....	2,043	.....	41.6	.....	11,076,792	.....	49.4	.....	6,907,242	.....	50.2	.....
IRON AND STEEL, STEEL WORKS AND ROLLING MILLS.	32	25	100.0	100.0	20,177	15,408	100.0	100.0	173,344,650	64,995,121	100.0	100.0	73,025,172	25,057,057	100.0	100.0	
\$100,000 to \$500,000.....	7	9	18.8	36.0	7528	2,127	2.6	13.8	2,247,884	3,343,350	1.3	5.1	1,196,088	2,418,674	1.6	9.7	
\$500,000 to \$1,000,000.....	6	4	15.6	16.0	756	.....	3.7	.....	4,143,407	2,870,100	2.4	4.0	1,924,259	.....	2.8	.....
\$1,000,000 and over.....	21	12	65.6	48.0	18,893	13,281	93.6	86.2	166,948,409	59,081,671	96.3	90.9	69,904,825	22,638,483	95.7	90.3	
KNIT GOODS.	58	46	100.0	100.0	5,095	3,535	100.0	100.0	20,460,300	7,387,235	100.0	100.0	8,759,328	3,300,696	100.0	100.0	
Less than \$5,000.....	10	8	17.2	17.4	4	10	0.1	0.3	32,579	21,064	0.2	0.3	18,230	13,080	0.2	0.4	
\$5,000 to \$20,000.....	8	12	13.8	23.1	15	108	0.3	3.1	93,589	139,117	0.5	1.9	35,191	71,809	0.4	2.3	
\$20,000 to \$100,000.....	11	11	19.0	23.9	177	374	3.5	10.6	477,948	590,825	2.3	8.0	238,382	237,462	2.7	7.2	
\$100,000 to \$500,000.....	19	11	32.8	23.9	1,856	3,043	36.4	86.1	4,656,344	2,619,877	22.8	35.6	1,931,255	2,976,745	22.0	90.2	
\$500,000 to \$1,000,000.....	4	4	6.9	8.7	511	.....	10.0	.....	2,699,999	3,996,352	13.2	54.2	1,102,789	.....	12.6	.....
\$1,000,000 and over.....	6	.....	10.3	.....	2,532	.....	49.7	.....	12,499,901	.....	61.1	.....	5,433,473	.....	62.0	.....
LEATHER, TANNED, CURRED, AND FINISHED.	29	28	100.0	100.0	4,434	2,678	100.0	100.0	60,323,659								

TABLE 12.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS, FOR SELECTED INDUSTRIES: 1919 AND 1914—Con.

INDUSTRY AND VALUE OF PRODUCT.	NUMBER OF ESTABLISHMENTS.				AVERAGE NUMBER OF WAGE EARNERS.				VALUE OF PRODUCTS.				VALUE ADDED BY MANUFACTURE.				
	1919	1914	Per cent distribution.		1919	1914	Per cent distribution.		1919	1914	Per cent distribution.		1919	1914	Per cent distribution.		
			1919	1914			1919	1914			1919	1914			1919	1914	
LIQUORS, MALT.....	61	89	100.0	100.0	2,796	5,749	100.0	100.0	\$27,322,655	\$39,435,995	100.0	100.0	\$20,183,788	\$29,029,593	100.0	100.0	
Less than \$5,000.....	3	16	4.9	6.7	8	13	0.3	0.1	29,388	143,490	0.1	0.1	19,576	122,656	0.1	0.1	
\$5,000 to \$20,000.....	12	21	19.7	23.6	138	140	4.9	2.5	709,208	1,208,700	2.6	3.1	430,453	795,878	2.2	2.7	
\$20,000 to \$100,000.....	26	36	42.6	40.4	841	1,568	30.1	27.3	6,491,487	9,859,806	23.8	25.0	4,010,436	15,376,699	22.0	53.0	
\$100,000 to \$500,000.....	12	17	19.7	19.1	595	-----	21.3	-----	8,376,805	11,271,778	30.7	28.6	6,777,229	-----	33.0	-----	
\$500,000 to \$1,000,000.....	8	9	13.1	10.1	1,214	4,092	43.4	70.1	11,719,787	17,652,221	42.9	43.2	8,334,094	12,834,300	41.3	44.2	
\$1,000,000 and over.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	
LUMBER, PLANING-MILL PRODUCTS, NOT INCLUDING PLANING MILLS CONNECTED WITH SAWMILLS.....	269	333	100.0	100.0	5,147	7,734	100.0	100.0	34,588,576	26,662,534	100.0	100.0	13,909,099	11,122,958	100.0	100.0	
Less than \$5,000.....	39	62	14.5	15.6	21	51	0.4	0.7	102,951	129,996	0.3	0.5	58,970	76,838	0.4	0.7	
\$5,000 to \$20,000.....	69	92	21.9	27.6	122	413	2.4	5.3	622,814	1,052,463	1.8	3.9	318,067	592,525	2.3	5.3	
\$20,000 to \$100,000.....	98	123	36.4	36.9	1,065	2,060	20.7	26.6	5,183,438	6,080,610	15.0	22.8	2,403,355	2,920,494	17.7	26.3	
\$100,000 to \$500,000.....	62	59	23.0	17.7	2,623	5,210	51.0	67.4	13,313,501	11,892,590	38.5	44.5	6,609,880	7,527,101	47.2	67.7	
\$500,000 to \$1,000,000.....	4	7	1.5	2.1	424	-----	8.2	-----	2,441,823	4,536,875	7.1	28.3	1,191,654	-----	8.6	-----	
\$1,000,000 and over.....	7	-----	2.6	-----	892	-----	17.3	-----	12,924,049	-----	37.4	-----	3,306,273	-----	23.8	-----	
MUSICAL INSTRUMENTS, PIANOS.....	33	43	100.0	100.0	6,991	6,682	100.0	100.0	30,848,147	16,785,649	100.0	100.0	17,893,486	9,727,497	100.0	100.0	
Less than \$20,000.....	3	4	-----	9.3	-----	12	-----	0.2	-----	27,194	-----	0.2	-----	21,061	-----	0.2	-----
\$20,000 to \$100,000.....	13	13	9.1	30.2	620	284	0.3	4.3	87,149	572,093	0.3	5.2	442,236	471,270	0.2	4.8	
\$100,000 to \$500,000.....	10	15	30.3	34.9	763	3,913	10.9	58.6	3,204,078	4,200,338	10.4	25.0	1,797,044	5,420,122	10.0	55.7	
\$500,000 to \$1,000,000.....	10	8	30.3	18.6	1,359	-----	19.4	-----	6,820,859	5,836,092	22.1	34.8	3,421,040	-----	19.1	-----	
\$1,000,000 and over.....	10	8	30.3	7.0	4,849	2,473	69.4	37.0	20,736,061	5,849,032	67.2	34.8	12,631,966	3,815,044	70.0	39.2	
PAINTS.....	50	40	100.0	100.0	2,640	1,670	100.0	100.0	43,061,694	19,042,769	100.0	100.0	13,436,181	6,595,874	100.0	100.0	
Less than \$20,000.....	9	8	18.0	20.0	12	15	0.5	0.9	79,685	58,994	0.2	0.3	39,908	34,093	0.3	0.5	
\$20,000 to \$100,000.....	8	11	16.0	27.5	20	47	0.8	2.8	426,120	497,442	1.0	2.6	154,242	200,022	1.1	3.0	
\$100,000 to \$500,000.....	13	9	26.0	22.5	268	756	10.1	45.3	3,404,028	2,561,523	7.9	13.5	1,426,441	2,572,114	10.6	39.0	
\$500,000 to \$1,000,000.....	8	7	18.0	17.5	436	-----	16.5	-----	6,146,136	5,639,130	14.3	29.6	2,016,707	-----	15.0	-----	
\$1,000,000 and over.....	12	5	24.0	12.5	1,906	852	72.2	51.0	33,007,716	10,285,680	70.7	54.0	9,795,883	3,789,045	72.9	57.5	
PRINTING AND PUBLISHING, BOOK AND JOB.....	1,240	1,173	100.0	100.0	21,639	18,892	100.0	100.0	110,886,458	54,625,954	100.0	100.0	68,395,709	35,270,600	100.0	100.0	
Less than \$5,000.....	329	425	26.5	36.2	112	364	0.5	1.9	881,217	1,034,538	0.8	1.9	598,508	701,855	0.9	2.2	
\$5,000 to \$20,000.....	392	401	31.6	34.2	902	1,680	4.2	8.9	4,193,048	4,116,528	3.8	7.5	2,767,721	2,980,537	4.0	8.5	
\$20,000 to \$100,000.....	317	248	25.6	21.1	2,906	4,192	13.8	22.2	14,136,535	11,787,018	12.7	21.5	6,195,417	8,191,067	13.4	23.2	
\$100,000 to \$500,000.....	155	85	12.5	7.2	6,407	8,993	29.6	47.6	30,789,482	18,051,127	27.8	33.0	21,212,752	17,588,285	31.0	49.0	
\$500,000 to \$1,000,000.....	30	10	2.4	0.9	3,716	-----	17.2	-----	20,314,379	6,670,363	18.3	12.0	13,956,810	-----	20.4	-----	
\$1,000,000 and over.....	17	4	1.4	0.3	7,506	3,057	34.7	19.4	40,571,797	13,110,390	36.6	24.0	20,665,495	5,742,916	30.2	16.8	
PRINTING AND PUBLISHING, NEWSPAPERS AND PERIODICALS.....	1,204	1,330	100.0	100.0	10,120	9,021	100.0	100.0	88,945,960	47,026,681	100.0	100.0	58,961,038	36,685,766	100.0	100.0	
Less than \$5,000.....	305	624	32.8	46.9	318	815	3.1	9.0	1,144,300	1,640,501	1.3	3.5	808,734	1,362,631	1.5	3.7	
\$5,000 to \$20,000.....	449	411	37.3	30.9	914	1,293	9.0	14.0	4,393,074	4,092,446	4.0	8.7	3,512,085	3,427,096	6.0	9.3	
\$20,000 to \$100,000.....	232	228	19.3	17.1	1,524	1,679	15.1	18.6	10,259,906	9,752,662	11.5	20.7	8,296,284	8,360,632	14.1	22.8	
\$100,000 to \$500,000.....	104	63	8.6	4.0	2,334	2,576	23.1	28.1	21,457,694	9,692,974	24.1	20.6	15,988,187	10,783,626	27.1	20.4	
\$500,000 to \$1,000,000.....	12	6	1.0	0.5	865	-----	8.5	-----	8,808,771	4,394,612	9.9	9.3	6,603,012	-----	11.2	-----	
\$1,000,000 and over.....	12	8	1.0	0.6	4,165	2,698	41.2	29.9	42,882,215	17,444,480	48.2	37.1	23,692,736	12,761,781	43.2	34.8	
SLAUGHTERING AND MEAT PACKING.....	72	70	100.0	100.0	54,179	31,315	100.0	100.0	1,294,103,016	485,362,180	100.0	100.0	141,152,524	76,467,110	100.0	100.0	
Less than \$5,000.....	5	3	-----	4.3	-----	10	-----	(9)	-----	38,140	-----	(9)	-----	17,440	-----	(9)	-----
\$5,000 to \$20,000.....	5	9	6.9	12.9	6	38	(9)	0.1	222,424	439,224	(9)	0.1	43,784	92,191	(9)	0.1	
\$20,000 to \$100,000.....	17	18	23.6	25.7	299	824	0.6	2.6	5,041,237	5,010,632	0.4	1.0	1,247,872	2,137,708	0.9	2.3	
\$100,000 to \$500,000.....	7	9	9.7	12.5	301	-----	0.6	-----	5,280,967	6,865,822	0.4	1.4	1,130,036	-----	0.8	-----	
\$500,000 to \$1,000,000.....	43	31	59.7	44.3	53,573	30,443	98.9	97.2	1,273,558,388	473,008,362	99.2	97.5	138,724,172	74,619,771	98.8	97.6	
STEAM FITTINGS AND STEAM AND HOT-WATER HEATING APPARATUS.....	28	34	100.0	100.0	9,928	2,579	100.0	100.0	43,940,561	5,470,380	100.0	100.0	20,480,323	3,114,098	100.0	100.0	
Less than \$5,000.....	13	6	-----	17.6	-----	21	-----	0.8	808,759	91,791	-----	1.7	-----	57,745	-----	1.9	-----
\$5,000 to \$20,000.....	13	17	46.4	50.0	712	283	1.8	11.0	1,002,055	1,002,055	1.8	18.3	741,499	627,476	2.0	20.1	
\$20,000 to \$100,000.....	10	11	35.7	32.4	280	2,276	2.8	88.2	2,089,901	4,376,534	4.8	80.0	1,152,108	2,428,877	5.6	78.0	
\$100,000 to \$500,000.....	5	-----	17.9	-----	9,466	-----	95.3	-----	41,040,841	-----	95.4	-----	16,910,716	-----	92.8	-----	
STRUCTURAL IRONWORK, NOT MADE IN STEEL WORKS OR ROLLING MILLS.....	115	115	100.0	100.0	3,790	4,933	100.0	100.0	27,586,074	16,023,040	100.0	100.0	11,015,700	7,477,857	100.0	100.0	
Less than \$5,000.....	8	17	7.0	14.8	3	32	0.1	0.6	26,147	45,813	0.1	0.3	14,614	25,841	0.1	0.3	
\$5,000 to \$20,000.....	9	26	7.8	22.6	20	130	0.5	2.6	104,299	331,692	0.4	2.1	56,557	174,322	0.5	2.3	
\$20,000 to \$100,000.....	45	38	39.1	33.0	453	609	12.0	12.3	2,444,789	1,902,763	8.9	11.9	1,218,910	960,884	11.1	12.7	
\$100,000 to \$500,000.....	37	23	32.2	20.0	1,302	3,350	34.4	67.9	8,068,763	4,964,276	29.2	31.0	3,576,038	2,489,022	32.5	65.4	
\$500,000 to \$1,000,000.....	10	8	8.7	7.0	888	-----	23.4	-----	7,494,823	5,619,536	27.2	35.1	3,576,258	-----	23.4	-----	
\$1,000,000 and over.....	6	3	5.2	2.6	1,124	812	29.7	16.5	9,447,253	3,158,960	34.2	19.7	3,576,053	1,437,788	32.5	19.2	

* Includes the group "Less than \$5,000."

* Includes the group "\$500,000 to \$1,000,000."

* Includes the groups "\$500,000 to \$1,000,000" and "\$1,000,000 and over."

* Includes the group "\$1,000,000 and over."

* Includes the groups "Less than \$5,000" and "\$5,000 to \$20,000."

* Less than one-tenth of 1 per cent.

* Includes the group "\$5,000 to \$20,000."

MANUFACTURES—ILLINOIS.

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TABLE 13.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS, FOR CITIES OF 10,000 INHABITANTS OR MORE: 1919.

CITY AND VALUE OF PRODUCT.	Number of establishments.	WAGE EARNERS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.		CITY AND VALUE OF PRODUCT.	Number of establishments.	WAGE EARNERS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.	
		Average number.	Per cent of total.	Amount.	Per cent of total.	Amount.	Per cent of total.			Average number.	Per cent of total.	Amount.	Per cent of total.	Amount.	Per cent of total.
ALTON.....	60	3,236	100.0	\$31,036,983	100.0	\$41,261,989	100.0	DANVILLE.....	112	3,343	100.0	\$15,005,953	100.0	\$6,296,000	100.0
Less than \$5,000.....	8	4	0.1	22,711	0.1	16,233	0.1	Less than \$5,000.....	26	9	0.3	61,587	0.4	35,572	0.6
\$5,000 to \$20,000.....	19	67	2.1	240,894	0.8	131,071	1.2	\$5,000 to \$20,000.....	32	85	2.5	312,922	2.1	179,700	2.9
\$20,000 to \$100,000.....	21	212	6.6	894,022	2.9	499,959	4.4	\$20,000 to \$100,000.....	28	288	8.6	1,369,961	9.1	513,011	8.1
\$100,000 to \$500,000.....	3	123	3.8	655,476	2.1	296,997	2.6	\$100,000 to \$500,000.....	21	1,208	36.1	4,628,140	30.8	2,352,835	37.4
\$500,000 to \$1,000,000.....	4	564	17.4	2,789,548	9.0	1,277,693	11.3	\$500,000 and over.....	5	1,753	52.4	8,685,343	57.5	3,214,882	51.1
\$1,000,000 and over.....	5	2,206	70.0	20,433,662	85.2	9,039,401	80.3								
AURORA.....	133	6,008	100.0	30,038,961	100.0	17,355,417	100.0	DECATUR.....	103	5,693	100.0	38,683,689	100.0	13,995,903	100.0
Less than \$5,000.....	10	9	0.1	47,864	0.2	30,175	0.2	Less than \$5,000.....	16	8	0.1	38,068	0.1	24,235	0.2
\$5,000 to \$20,000.....	39	115	1.7	431,514	1.4	253,637	1.5	\$5,000 to \$20,000.....	20	52	0.9	229,112	0.6	110,651	0.8
\$20,000 to \$100,000.....	37	398	6.6	1,648,132	5.5	749,737	4.3	\$20,000 to \$100,000.....	20	254	4.5	1,104,021	2.9	578,374	4.1
\$100,000 to \$500,000.....	25	908	15.1	6,324,020	21.1	2,987,544	17.2	\$100,000 to \$500,000.....	27	1,273	22.4	7,103,091	18.4	3,573,666	25.5
\$500,000 to \$1,000,000.....	5	743	11.2	3,718,061	12.4	2,237,527	12.9	\$500,000 to \$1,000,000.....	5	684	12.0	3,484,079	9.0	1,610,018	11.5
\$1,000,000 and over.....	8	4,345	65.8	17,868,470	59.5	11,096,797	63.9	\$1,000,000 and over.....	9	3,422	60.1	26,725,318	69.1	8,098,959	57.9
BELLEVILLE.....	141	3,160	100.0	14,017,202	100.0	6,337,593	100.0	EAST ST. LOUIS.....	157	8,785	100.0	77,292,812	100.0	23,389,934	100.0
Less than \$5,000.....	39	18	0.6	98,641	0.7	50,207	0.9	Less than \$5,000.....	27	9	0.1	70,967	0.1	44,073	0.2
\$5,000 to \$20,000.....	44	124	3.9	465,190	3.3	225,856	3.6	\$5,000 to \$20,000.....	36	89	1.0	387,072	0.5	199,052	0.9
\$20,000 to \$100,000.....	30	264	8.4	1,194,240	8.5	581,794	9.2	\$20,000 to \$100,000.....	35	398	4.5	1,530,490	2.0	750,601	3.2
\$100,000 to \$500,000.....	21	1,480	47.1	6,106,991	43.0	3,055,591	48.2	\$100,000 to \$500,000.....	29	1,511	17.2	8,000,000	10.4	3,447,530	14.7
\$500,000 and over.....	7	1,205	40.0	6,152,230	43.9	2,418,145	38.2	\$500,000 to \$1,000,000.....	8	1,165	13.3	5,728,928	7.4	2,976,508	12.7
								\$1,000,000 and over.....	22	5,013	63.9	61,506,355	79.6	15,972,161	68.3
BERWYN.....	15	25	100.0	155,157	100.0	76,860	100.0	ELGIN.....	80	6,846	100.0	25,648,891	100.0	14,830,920	100.0
Less than \$5,000.....	0	0	0.0	12,864	8.3	6,978	9.1	Less than \$5,000.....	13	9	0.1	29,709	0.1	15,562	0.1
\$5,000 to \$20,000.....	9	25	100.0	142,293	91.7	69,882	90.9	\$5,000 to \$20,000.....	19	52	0.8	193,642	0.8	105,723	0.7
BLOOMINGTON.....	83	2,818	100.0	11,510,580	100.0	5,952,705	100.0	\$20,000 to \$100,000.....	18	229	3.3	880,808	3.4	413,441	2.8
Less than \$5,000.....	20	17	0.6	64,373	0.6	33,013	0.6	\$100,000 to \$500,000.....	20	931	13.6	4,430,065	17.3	1,906,417	12.9
\$5,000 to \$20,000.....	20	79	2.8	259,019	2.2	137,540	2.3	\$500,000 to \$1,000,000.....	5	626	9.1	3,272,241	12.8	1,244,500	8.4
\$20,000 to \$100,000.....	19	187	6.6	869,321	7.5	430,846	7.2	\$1,000,000 and over.....	5	4,099	73.0	16,842,426	65.7	11,145,187	75.1
\$100,000 and over.....	15	2,535	90.0	10,332,867	89.7	5,351,306	89.9								
BLUE ISLAND.....	34	1,180	100.0	7,498,870	100.0	4,650,089	100.0	EVANSTON.....	101	1,405	100.0	9,791,025	100.0	4,095,360	100.0
Less than \$5,000.....	6	2	0.2	15,868	0.2	9,103	0.2	Less than \$5,000.....	20	6	0.4	62,851	0.6	33,554	0.8
\$5,000 to \$20,000.....	7	10	0.8	75,620	1.0	31,956	0.7	\$5,000 to \$20,000.....	44	92	6.5	472,048	4.8	272,827	6.7
\$20,000 to \$100,000.....	9	120	10.2	336,820	4.5	188,421	4.1	\$20,000 to \$100,000.....	27	190	13.5	1,125,346	11.5	633,278	15.5
\$100,000 and over.....	12	1,048	88.8	7,070,662	94.3	4,420,609	95.1	\$100,000 and over.....	10	1,117	79.5	8,130,780	83.0	3,155,701	77.1
CAIRO.....	55	1,792	100.0	10,526,159	100.0	3,215,770	100.0	FOREST PARK.....	28	192	100.0	1,016,236	100.0	552,690	100.0
Less than \$5,000.....	16	42	2.3	151,910	1.4	80,072	2.5	Less than \$5,000.....	8	2	1.0	20,801	2.0	13,911	2.5
\$5,000 to \$20,000.....	22	249	13.9	1,001,499	9.5	471,901	14.7	\$5,000 to \$20,000.....	11	32	16.7	150,948	14.8	81,329	14.7
\$20,000 to \$100,000.....	9	357	19.9	2,253,324	21.4	778,687	24.2	\$20,000 to \$100,000.....	6	58	27.6	280,179	27.6	165,486	29.9
\$100,000 and over.....	8	1,144	63.8	7,119,396	67.6	1,885,110	58.6	\$100,000 to \$500,000.....	3	105	64.7	564,308	55.5	291,964	52.8
CANTON.....	33	1,206	100.0	4,558,447	100.0	2,047,047	100.0	FREEPORT.....	76	3,177	100.0	18,405,204	100.0	7,542,856	100.0
Less than \$5,000.....	7	8	0.6	17,188	0.4	11,043	0.5	Less than \$5,000.....	15	10	0.3	40,373	0.2	29,120	0.4
\$5,000 to \$20,000.....	12	79	6.1	167,928	3.7	72,838	3.6	\$5,000 to \$20,000.....	21	51	1.6	238,404	1.3	120,984	1.6
\$20,000 to \$100,000.....	11	108	13.0	522,033	11.5	261,519	12.8	\$20,000 to \$100,000.....	21	389	12.2	1,140,153	6.2	592,835	7.9
\$100,000 and over.....	3	1,041	80.3	3,851,298	84.5	1,701,647	83.1	\$100,000 to \$500,000.....	11	354	11.1	2,132,761	11.6	951,734	12.6
								\$500,000 to \$1,000,000.....	4	336	10.6	2,983,555	16.2	988,075	12.8
								\$1,000,000 and over.....	4	2,037	64.1	11,869,958	64.5	4,880,108	64.7
CENTRALIA.....	30	1,003	100.0	3,010,556	100.0	1,682,726	100.0	GALESBURG.....	77	2,222	100.0	10,352,242	100.0	4,360,501	100.0
Less than \$5,000.....	7	2	0.2	12,386	0.4	6,060	0.4	Less than \$5,000.....	12	3	0.1	24,642	0.2	14,307	0.3
\$5,000 to \$20,000.....	9	23	2.3	106,240	3.5	63,025	3.7	\$5,000 to \$20,000.....	25	62	2.8	256,340	2.5	131,409	3.0
\$20,000 to \$100,000.....	10	72	7.2	402,784	13.4	213,924	12.7	\$20,000 to \$100,000.....	21	198	8.9	1,061,955	10.3	460,079	10.6
\$100,000 and over.....	4	906	90.3	2,489,146	82.7	1,399,716	82.7	\$100,000 to \$500,000.....	13	672	30.2	2,838,669	27.4	1,295,861	29.7
CHAMPAIGN.....	80	1,063	100.0	5,187,010	100.0	2,454,068	100.0	\$500,000 to \$1,000,000.....	3	362	18.3	1,813,419	17.5	784,573	18.0
Less than \$5,000.....	14	7	0.7	41,272	0.8	23,759	1.0	\$1,000,000 and over.....	3	925	41.6	4,357,217	42.1	1,674,272	38.4
\$5,000 to \$20,000.....	26	53	5.0	276,505	5.3	164,094	6.7								
\$20,000 to \$100,000.....	29	255	24.0	1,296,667	25.0	745,431	30.4	GRANITE CITY.....	37	5,493	100.0	43,039,044	100.0	17,279,473	100.0
\$100,000 to \$500,000.....	8	361	34.0	1,776,254	34.2	725,228	29.0	Less than \$5,000.....	9	2	(1)	22,169	0.1	9,154	0.1
\$500,000 to \$1,000,000.....	3	387	36.4	1,796,312	34.6	795,556	32.4	\$5,000 to \$20,000.....	7	17	0.3	77,727	0.2	34,751	0.2
								\$20,000 to \$100,000.....	12	163	3.0	533,267	1.2	330,702	1.9
CHICAGO.....	10,537	403,942	100.0	3,657,424,471	100.0	1,278,182,243	100.0	\$100,000 and over.....	9	5,311	96.7	42,405,881	98.5	16,904,866	97.8
Less than \$5,000.....	1,583	618	0.1	4,143,026	0.1	2,590,668	0.2								
\$5,000 to \$20,000.....	2,754	6,329	1.6	81,305,818	0.9	18,164,720	1.4	HERRIN.....	12	52	100.0	285,225	100.0	138,575	100.0
\$20,000 to \$100,000.....	3,326	31,765	7.9	153,951,018	4.2	86,200,001	6.7	Less than \$20,000.....	7	15	28.8	72,205	25.3	36,592	26.4
\$100,000 to \$500,000.....	1,942	76,020	18.8	444,909,786	12.2	232,150,000	18.2	\$20,000 to \$100,000.....	5	37	71.2	213,020	74.7	101,933	73.6
\$500,000 to \$1,000,000.....	400	48,088	12.1	325,816,724	8.9	163,476,570	12.8								
\$1,000,000 and over.....	472	240,522	59.5	2,697,206,899	73.7	775,594,284	60.5	JACKSONVILLE.....	59	1,091	100.0	7,126,506	100.0	1,949,450	100.0
CHICAGO HEIGHTS.....	103	5,328	100.0	41,788,147	100.0	18,686,656	100.0	Less than \$5,000.....	17	9	0.8	39,972	0.6	24,401	1.3
Less than \$5,000.....	17	7	0.1	50,174	0.1	29,393	0.2	\$5,000 to \$20,000.....	17	49	4.5	158,865	2.2	96,728	5.0
\$5,000 to \$20,000.....	25	60	1.3	220,736	0.5	112,179	0.6	\$20,000 to \$100,000.....	15	160	14.7	622,344	8.7	293,026	15.0
\$20,000 to \$100,000.....	22	224	4.2	1,002,222	2.4	484,654	2.6	\$100,000 to \$500,000.....	5	273	25.0	1,070,020	15.0	365,449	18.8
\$100,000 to \$500,000.....	19	970	18.2	5,943,786	14.2	2,023,893	14.0	\$500,000 and over.....	5	600	55.0	5,285,805	73.5	1,169,646	60.0
\$500,000 to \$1,000,000.....	9	886	16.6	5,934,446	14.2	3,018,803									

TABLE 13.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS, FOR CITIES OF 10,000 INHABITANTS OR MORE.
1919—Continued.

CITY AND VALUE OF PRODUCT.	Number of establishments.	WAGE EARNERS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.		CITY AND VALUE OF PRODUCT.	Number of establishments.	WAGE EARNERS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.	
		Average number.	Per cent of total.	Amount.	Per cent of total.	Amount.	Per cent of total.			Average number.	Per cent of total.	Amount.	Per cent of total.	Amount.	Per cent of total.
KANKAKEE.....	54	1,959	100.0	\$7,287,117	100.0	\$3,443,453	100.0	PEKIN.....	37	934	100.0	\$25,663,968	100.0	\$9,101,284	100.0
Less than \$5,000.....	5	4	0.2	12,676	0.2	8,395	0.2	Less than \$5,000.....	8	4	0.4	13,203	0.1	3,037	(1)
\$5,000 to \$20,000.....	20	59	3.0	261,902	3.6	120,541	3.7	\$5,000 to \$20,000.....	13	38	4.1	107,322	0.7	85,400	0.9
\$20,000 to \$100,000.....	18	244	12.5	825,284	11.3	404,276	11.7	\$20,000 to \$100,000.....	9	114	12.2	410,213	1.6	178,977	1.9
\$100,000 to \$500,000.....	8	401	25.1	2,007,746	27.6	1,339,721	38.9	\$100,000 to \$500,000.....	7	778	83.3	25,073,230	97.7	8,530,870	97.1
\$500,000 and over.....	3	1,101	56.3	4,179,449	57.4	1,564,519	45.4								
Kewanee.....	37	3,909	100.0	10,278,508	100.0	8,939,321	100.0	PEORIA.....	253	7,977	100.0	67,074,893	100.0	21,155,975	100.0
Less than \$5,000.....	7	7	0.2	18,105	0.1	12,949	0.1	Less than \$5,000.....	42	26	0.3	101,162	0.2	59,052	0.3
\$5,000 to \$20,000.....	14	27	0.7	144,071	0.9	83,362	0.9	\$5,000 to \$20,000.....	67	200	2.5	716,865	1.3	418,210	2.0
\$20,000 to \$100,000.....	7	55	1.4	372,904	2.3	183,275	2.1	\$20,000 to \$100,000.....	72	782	9.8	3,430,212	6.0	1,809,359	8.5
\$100,000 to \$500,000.....	6	184	4.7	1,206,253	7.4	605,886	6.3	\$100,000 to \$500,000.....	44	1,702	21.3	10,298,138	18.0	4,227,881	20.0
\$1,000,000 and over.....	3	3,636	93.0	14,536,025	89.3	8,093,849	90.5	\$500,000 to \$1,000,000.....	16	1,899	23.8	11,445,570	20.1	4,695,821	22.2
								\$1,000,000 and over.....	12	3,368	42.2	31,076,946	54.5	9,950,146	47.0
La Salle.....	38	1,792	100.0	9,533,706	100.0	4,262,278	100.0	QUINCY.....	183	4,443	100.0	23,498,813	100.0	11,061,171	100.0
Less than \$5,000.....	9	4	0.2	20,836	0.2	12,540	0.3	Less than \$5,000.....	32	22	0.5	81,459	0.3	51,865	0.5
\$5,000 to \$20,000.....	16	42	2.3	194,353	2.0	105,705	2.5	\$5,000 to \$20,000.....	50	161	3.6	589,166	2.5	321,770	2.9
\$20,000 to \$100,000.....	8	94	5.2	404,625	4.2	185,870	4.4	\$20,000 to \$100,000.....	55	606	13.6	2,535,289	10.8	1,311,856	11.9
\$100,000 and over.....	5	1,652	92.2	8,913,892	93.5	3,958,157	92.9	\$100,000 to \$500,000.....	35	1,677	37.7	8,138,142	34.6	4,142,529	37.5
								\$500,000 to \$1,000,000.....	5	498	11.2	3,022,072	12.9	1,060,799	9.6
LINCOLN.....	33	104	100.0	784,734	100.0	400,972	100.0	\$1,000,000 and over.....	0	1,479	33.3	9,132,685	38.9	4,172,862	37.7
Less than \$5,000.....	10	17	8.8	27,680	3.5	15,679	3.9	ROCK ISLAND.....	83	3,208	100.0	22,350,114	100.0	8,102,467	100.0
\$5,000 to \$20,000.....	10	46	23.7	124,795	15.9	62,907	15.7	Less than \$5,000.....	13	5	0.2	30,788	0.1	19,570	0.2
\$20,000 and over.....	13	131	67.5	632,259	80.6	322,386	80.4	\$5,000 to \$20,000.....	23	60	1.9	249,973	1.1	140,857	1.7
MATTOON.....	65	1,134	100.0	4,051,058	100.0	2,194,784	100.0	\$20,000 to \$100,000.....	22	255	7.9	1,035,384	4.6	622,928	7.7
Less than \$5,000.....	21	30	2.6	60,857	1.5	37,222	1.7	\$100,000 to \$500,000.....	19	615	19.2	3,627,013	16.2	1,849,019	22.8
\$5,000 to \$20,000.....	21	48	4.2	200,194	4.9	125,474	5.7	\$500,000 and over.....	6	2,273	70.9	17,406,956	77.9	5,470,093	67.5
\$20,000 to \$100,000.....	15	134	11.8	725,489	17.9	379,953	17.3								
\$100,000 to \$500,000.....	5	446	39.3	1,219,130	30.1	785,248	35.8	ROCKFORD.....	312	14,992	100.0	74,018,953	100.0	38,352,044	100.0
\$500,000 to \$1,000,000.....	3	470	42.0	1,845,388	45.6	800,887	36.5	Less than \$5,000.....	40	29	0.2	126,725	0.2	74,761	0.2
								\$5,000 to \$20,000.....	71	185	1.2	818,777	1.1	471,780	1.2
MAYWOOD.....	27	2,217	100.0	14,432,705	100.0	5,005,025	100.0	\$20,000 to \$100,000.....	82	922	6.1	4,110,207	5.5	2,041,060	5.3
Less than \$5,000.....	6	4	0.2	12,800	0.1	8,934	0.2	\$100,000 to \$500,000.....	82	4,162	27.8	20,345,722	27.2	10,490,125	27.4
\$5,000 to \$20,000.....	10	15	0.7	88,831	0.6	45,893	0.9	\$500,000 to \$1,000,000.....	18	1,792	12.0	9,409,375	12.6	4,641,350	12.1
\$20,000 to \$100,000.....	7	63	2.8	269,618	1.9	133,417	2.7	\$1,000,000 and over.....	18	7,902	52.7	40,108,147	53.5	20,632,038	53.8
\$100,000 and over.....	4	2,135	96.3	14,061,456	97.4	4,816,781	96.2								
MOLINE.....	61	5,444	100.0	44,871,021	100.0	22,183,217	100.0	SPRINGFIELD.....	181	5,365	100.0	22,723,365	100.0	10,339,413	100.0
Less than \$5,000.....	7	7	0.1	18,108	(1)	11,852	0.1	Less than \$5,000.....	27	15	0.3	70,623	0.3	41,188	0.4
\$5,000 to \$20,000.....	13	39	0.7	148,889	0.3	90,740	0.4	\$5,000 to \$20,000.....	60	195	3.6	646,880	2.8	388,577	3.8
\$20,000 to \$100,000.....	12	139	2.6	614,648	1.1	237,172	1.1	\$20,000 to \$100,000.....	61	666	12.4	2,999,314	13.2	1,471,567	14.2
\$100,000 to \$500,000.....	15	688	12.6	3,320,682	7.4	1,717,485	7.7	\$100,000 to \$500,000.....	27	1,567	29.2	7,013,477	30.9	3,331,210	32.2
\$500,000 to \$1,000,000.....	8	1,037	19.0	6,442,288	14.4	3,725,385	16.8	\$1,000,000 and over.....	6	2,922	54.5	11,993,071	52.8	5,106,871	49.4
\$1,000,000 and over.....	6	3,534	64.9	34,417,406	76.7	16,400,577	73.9								
MURPHYSBORO.....	28	1,139	100.0	6,208,317	100.0	2,327,025	100.0	STREATOR.....	69	1,301	100.0	6,662,302	100.0	3,708,915	100.0
Less than \$5,000.....	4	1	0.1	11,630	0.2	5,541	0.2	Less than \$5,000.....	14	13	1.0	39,293	0.6	25,862	0.7
\$5,000 to \$20,000.....	7	15	1.3	75,535	1.2	37,282	1.6	\$5,000 to \$20,000.....	27	80	6.1	293,599	4.4	186,935	5.0
\$20,000 to \$100,000.....	10	79	6.9	438,990	7.1	182,879	7.9	\$20,000 to \$100,000.....	20	233	17.9	914,277	13.7	503,323	13.6
\$100,000 to \$500,000.....	3	184	16.2	634,833	10.2	469,873	21.0	\$100,000 and over.....	8	975	74.9	5,415,133	81.3	2,992,795	80.7
\$500,000 and over.....	4	860	75.5	5,047,279	81.3	1,612,045	69.3								
OAK PARK.....	44	383	100.0	2,280,640	100.0	1,305,630	100.0	URBANA.....	43	509	100.0	1,450,522	100.0	1,010,292	100.0
Less than \$5,000.....	11	1	0.3	28,261	1.2	14,686	1.1	Less than \$5,000.....	15	6	1.2	44,108	3.0	29,414	2.9
\$5,000 to \$20,000.....	17	27	7.0	165,557	7.3	97,091	7.4	\$5,000 to \$20,000.....	13	43	8.4	143,183	9.9	109,476	10.8
\$20,000 to \$100,000.....	11	110	28.7	601,766	26.4	358,790	27.5	\$20,000 and over.....	15	400	90.4	1,263,231	87.1	871,403	86.3
\$100,000 and over.....	5	245	64.0	1,485,056	65.1	835,113	64.0								
OTTAWA.....	62	729	100.0	3,223,647	100.0	1,648,919	100.0	WAUKEGAN.....	52	2,538	100.0	24,093,062	100.0	9,076,759	100.0
Less than \$5,000.....	17	24	3.3	49,887	1.5	33,962	2.1	Less than \$5,000.....	10	6	0.2	27,037	0.1	15,141	0.2
\$5,000 to \$20,000.....	21	63	8.6	235,368	7.3	132,316	8.0	\$5,000 to \$20,000.....	16	32	1.3	107,466	0.7	98,804	1.1
\$20,000 to \$100,000.....	16	203	27.8	799,570	24.8	386,150	23.4	\$20,000 to \$100,000.....	13	165	6.5	656,310	2.7	330,916	3.6
\$100,000 and over.....	8	439	60.2	2,138,822	66.3	1,096,491	66.5	\$100,000 to \$500,000.....	7	372	14.7	1,630,909	6.8	716,292	7.9
								\$500,000 to \$1,000,000.....	3	310	12.2	1,994,554	8.3	834,198	8.7
								\$1,000,000 and over.....	3	1,653	65.1	19,610,786	81.4	7,033,408	77.5

¹ Less than one-tenth of 1 per cent.

² Includes the group "\$500,000 to \$1,000,000."

MANUFACTURES—ILLINOIS.

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TABLE 14.—CHARACTER OF OWNERSHIP, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919 AND 1914.

INDUSTRY AND CITY.	Cen- sus year.	NUMBER OF ESTABLISHMENTS OWNED BY—			AVERAGE NUMBER OF WAGE EARNERS.									VALUE OF PRODUCTS.								
		Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Total.	In establishments owned by—			Per cent of total.			Total.	Of establishments owned by—			Per cent of total.			Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	
						Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.		Individ- uals.	Corpora- tions.	All others.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.				
All industries.....	1919	8,771	6,895	2,927	653,114	36,105	589,978	27,031	5.5	90.3	4.1	\$5,425,244,694	\$225,940,504	\$5,004,523,563	\$194,780,627	4.2	92.2	3.6				
	1914	9,404	5,993	2,991	508,943	40,278	437,069	29,698	7.9	86.2	5.8	2,247,322,519	127,740,861	2,021,734,391	97,847,567	5.7	90.0	4.4				
	1909	9,654	5,209	3,163	465,764	46,524	374,855	44,385	10.0	80.5	9.5	1,919,276,594	124,438,296	1,646,518,916	138,319,382	7.0	85.8	7.2				
Agricultural implements..	1919	3	55	10	22,548	4	22,460	75	(1)	99.6	0.3	128,284,716	43,430	127,911,845	329,441	(1)	99.7	0.3				
	1914	11	51	11	19,556	48	19,443	65	0.2	99.4	0.3	65,337,663	151,057	65,017,298	169,308	0.2	99.6	0.3				
Automobile bodies and parts.	1919	76	101	27	5,298	584	4,502	212	11.0	85.0	4.0	27,864,978	2,918,279	24,001,784	944,915	10.5	86.1	3.4				
	1914	14	35	17	1,236	65	1,171	184	5.3	79.9	14.9	3,384,742	154,813	2,874,870	355,059	4.6	84.9	10.5				
Boots and shoes.....	1919	9	37	5	7,684	70	7,363	251	0.9	95.8	3.3	39,402,383	369,094	37,111,942	1,921,347	0.9	94.2	4.9				
	1914	16	23	8	6,071	343	5,290	429	5.6	87.3	7.1	16,891,626	1,108,785	14,727,840	1,055,001	6.6	87.2	6.2				
Boxes, paper and other, not elsewhere specified.	1919	19	58	10	5,923	399	5,380	144	6.7	90.8	2.4	28,893,083	1,485,950	26,906,826	500,307	5.1	93.1	1.7				
	1914	22	51	7	4,586	395	4,084	107	8.6	89.1	2.3	9,740,786	724,692	8,337,936	178,158	7.4	90.7	1.8				
Brass, bronze, and copper products.	1919	19	59	12	3,174	166	2,787	271	5.2	86.2	8.5	25,106,507	1,160,854	22,975,289	970,364	4.6	91.5	3.9				
	1914	23	39	13	1,502	117	1,275	120	7.8	84.2	8.0	7,795,456	354,253	6,995,359	420,839	5.7	89.8	5.6				
Bread and other bakery products.	1919	1,934	110	301	12,418	4,729	6,366	1,323	38.1	51.3	10.7	102,664,190	41,431,435	50,237,835	10,994,920	40.4	48.9	10.7				
	1914	1,924	79	275	10,404	4,302	5,008	1,094	41.3	48.1	10.5	45,250,060	18,103,211	22,431,866	4,714,983	40.0	49.6	10.4				
Butter.....	1919	44	50	35	813	73	618	122	9.0	76.0	15.0	26,376,027	2,055,706	20,348,281	3,972,040	7.8	77.1	15.1				
	1914	53	88	45	492	85	305	102	17.3	82.0	20.7	8,150,539	1,368,875	5,200,659	1,583,008	16.8	63.8	19.4				
Cars and general shop construction and repairs by steam-railroad companies.	1919	.....	133	.....	40,219	.....	40,219	.....	.....	100.0	.....	103,219,253	.....	103,219,253	.....	.....	100.0	.....			
	1914	.....	94	.....	28,682	.....	28,682	.....	.....	100.0	.....	41,496,130	.....	41,496,130	.....	.....	100.0	.....			
Cars, steam-railroad, not including operations of railroad companies.	1919	.....	19	.....	13,775	.....	13,775	.....	.....	100.0	.....	125,217,722	.....	125,217,722	.....	.....	100.0	.....			
	1914	.....	23	.....	18,000	.....	18,000	.....	.....	100.0	.....	61,315,638	.....	61,315,638	.....	.....	100.0	.....			
Chemicals.....	1919	2	28	3	3,004	28	2,976	.....	0.9	99.1	.....	22,060,803	2,461,694	21,599,109	.....	2.1	97.9	.....			
	1914	3	23	.....	1,682	5	1,677	.....	0.3	99.7	.....	8,618,118	18,775	8,599,343	.....	0.2	99.8	.....			
Clothing, men's.....	1919	210	153	139	32,896	3,894	23,912	5,090	11.8	72.7	15.5	197,616,795	13,140,010	158,325,034	20,150,851	6.6	80.1	13.2				
	1914	322	113	143	34,152	6,428	21,072	6,652	18.8	61.7	19.5	87,512,126	8,391,801	63,628,424	15,491,901	9.6	72.7	17.7				
Clothing, women's.....	1919	151	112	135	10,278	2,554	4,999	2,725	24.8	48.0	26.5	68,044,208	10,205,717	27,464,725	24,373,826	23.8	40.4	35.8				
	1914	107	61	73	8,113	1,994	3,881	2,238	24.6	47.8	27.6	20,760,550	4,455,699	10,168,703	6,120,148	21.5	40.0	29.5				
Coffee and spice, roasting and grinding.	1919	3	26	3	1,205	34	915	256	2.8	75.9	21.2	38,188,040	157,720	28,983,701	9,047,225	0.4	75.9	23.7				
	1914	4	20	4	1,193	16	974	203	1.3	81.6	17.0	22,044,588	381,519	10,505,813	5,157,756	1.7	74.9	23.4				
Confectionery and ice cream.	1919	219	144	99	8,779	856	7,437	436	9.8	85.3	5.0	73,096,890	6,649,262	62,749,094	3,697,724	9.1	85.8	5.1				
	1914	150	100	70	5,829	757	4,579	497	13.0	78.5	8.5	27,061,002	2,932,925	2,912,025	2,912,025	10.8	80.6	8.5				
Electrical machinery, apparatus, and supplies.	1919	13	134	14	27,290	47	27,167	76	0.2	99.5	0.3	119,528,022	169,894	118,802,411	555,717	0.1	99.4	0.5				
	1914	27	103	12	16,453	125	16,286	72	0.8	98.8	0.4	45,667,450	265,105	45,171,971	230,380	0.6	98.9	0.5				
Engines, steam, gas, and water.	1919	2	22	1	8,645	.....	8,583	.....	.....	99.3	0.7	45,741,267	.....	45,572,290	.....	.....	99.6	0.4			
	1914	3	22	5	1,860	.....	1,774	.....	.....	95.4	4.6	3,945,730	.....	3,700,720	.....	.....	96.2	3.8			
Flour-mill and gristmill products.	1919	130	106	86	2,740	244	2,258	238	8.9	82.4	8.7	116,562,915	5,513,169	102,149,917	8,899,829	4.7	87.6	7.6				
	1914	193	97	110	2,398	420	1,660	318	17.5	69.2	13.3	49,493,224	7,281,852	37,022,238	6,189,134	14.7	74.8	10.5				
Food preparations, not elsewhere specified.	1919	43	68	23	4,061	177	3,848	236	4.4	89.8	5.8	94,240,307	2,685,520	87,660,168	3,594,619	2.8	93.0	4.1				
	1914	42	53	20	1,790	283	1,105	312	15.8	66.8	17.4	17,620,136	1,275,309	18,862,622	2,482,205	7.2	78.7	14.1				
Foundry and machine-shop products. ⁴	1919	239	564	117	49,450	2,274	44,890	2,286	4.6	90.8	4.6	252,786,130	8,734,157	234,290,929	9,761,044	3.5	92.7	3.9				
	1914	214	490	117	37,130	1,041	34,148	1,341	4.4	92.0	3.6	95,368,347	3,409,967	88,578,019	3,320,361	3.6	92.9	3.5				
Furniture.....	1919	77	166	43	12,204	551	10,979	764	4.5	89.3	6.2	60,770,771	2,420,678	53,694,370	4,655,723	4.0	88.4	7.7				
	1914	70	160	44	13,350	804	11,487	1,059	6.0	86.0	7.0	31,889,569	1,741,157	27,480,200	2,668,212	5.6	86.2	8.4				
Hardware.....	1919	13	58	13	4,914	53	4,576	285	1.1	93.1	5.8	22,442,643	286,710	20,856,676	1,209,257	1.3	92.9	6.8				
	1914	20	53	7	4,035	193	3,500	252	4.8	89.0	6.2	10,407,290	337,584	9,553,457	516,249	3.2	91.8	6.0				
Iron and steel, steel works and rolling mills.	1919	.....	32	.....	20,177	.....	20,177	.....	.....	100.0	.....	173,344,650	.....	173,344,650	.....	.....	100.0	.....			
	1914	.....	25	.....	15,408	.....	15,408	.....	.....	100.0	.....	64,995,121	.....	64,995,121	.....	.....	100.0	.....			
Knit goods.....	1919	19	33	6	5,095	36	4,927	132	0.7	96.7	2.6	20,460,360	227,237	19,480,780	752,343	1.1	95.2	3.7				
	1914	16	27	3	3,535	152	3,945	38	4.3	94.6	1.1	7,367,235	275,156	7,007,392	84,717	3.7	95.1	1.1				
Leather, tanned, curried, and finished.	1919	1	19	9	4,434	.....	3,941	.....	.....	88.9	11.1	60,323,659	.....	53,013,152	7,310,507	.....	87.9	12.1			
	1914	4	15	9	2,678	283	2,064	331	10.6	77.1	12.4	17,509,256	2,285,422	13,142,836	2,080,998	13.1	75.1	11.9				
Liquors, malt.....	1919	3	57	1	2,798	.....	2,771	.....	.....	99.1	0.9	27,322,655	.....	27,161,242	.....	.....	99.4	0.6			
	1914	8	75	6	5,749	85	5,676	88	1.5	97.0	1.5	39,435,995	449,304	38,302,121	684,570	1.1	97.1	1.7				
Lumber, planing-mill products, not including planing mills connected with sawmills.	1919	82	145	42	5,147	383	4,474	290	7.4	86.9	5.6	34,588,576	1,677,192	30,971,606	1,939,778	4.8	89.5	5.6				
	1914	109	177	47	7,734	632	6,699	412	8.2	86.5	5.3	26,662,534	1,802,659	23,554,110	1,305,765	6.8	88.8	4.9				
Musical instruments, pianos.	1919	4	28	1	6,991	.....	6,904	.....	.....	98.8	1.2	30,848,147	.....	30,345,000	.....	.....	98.4	1.6			
	1914	3	38	2	6,682	.....	6,635	.....	.....	99.3	0.7	16,785,649	.....	16,559,616	.....	.....	98.7	1.3			
Paints.....	1919	5	41	4	2,640	59	2,567	14	2.2	97.2	0.5	43,061,694	838,826	41,615,825	607,043							

TABLE 14.—CHARACTER OF OWNERSHIP, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919 AND 1914—Continued.

INDUSTRY AND CITY.	Cen- sus year.	NUMBER OF ESTABLISHMENTS OWNED BY—			AVERAGE NUMBER OF WAGE EARNERS.									VALUE OF PRODUCTS.					
		Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Total.	In establishments owned by—			Per cent of total.			Total.	Of establishments owned by—			Per cent of total.			
						Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.		Indi- vid- uals.	Corpora- tions.	All others.	Indi- vid- uals.	Corpora- tions.	All oth- ers.	
Printing and publishing, newspapers and peri- odicals.	1919	572	432	200	10,120	1,168	8,417	535	11.5	83.2	5.3	\$88,945,960	\$5,321,731	\$79,295,462	\$4,328,767	6.0	89.1	4.9	
	1914	686	423	221	9,021	1,481	6,704	836	16.4	74.3	9.3	47,026,681	4,501,704	40,323,284	2,201,693	9.6	85.7	4.7	
Slaughtering and meat packing.	1919	7	57	8	54,179	454	53,530	195	0.8	98.8	0.4	1,284,103,016	20,949,930	1,250,948,300	6,204,726	1.6	97.9	0.5	
	1914	12	48	10	31,315	515	30,578	222	1.6	97.6	0.7	485,362,180	10,070,870	472,238,961	3,062,343	2.1	97.3	0.6	
Soap.....	1919	1	24	4	2,270	.....	2,220	1 50	.....	97.8	2.2	25,733,832	.....	25,337,590	1 306,242	.....	98.5	1.5
	1914	7	18	2	2,144	.....	2,105	1 39	.....	98.2	1.8	21,420,035	.....	21,172,266	1 247,769	.....	98.8	1.2
Steam fittings and steam and hot-water heating apparatus.	1919	4	24	.....	9,928	53	9,875	.....	0.5	90.5	.....	43,940,561	205,398	43,735,163	.....	0.5	99.5	.....
	1914	4	20	1	2,579	54	2,525	.....	2.1	97.9	.....	5,470,380	1 147,487	5,322,893	.....	2.7	97.3	.....
Stoves and hot-air fur- naces.	1919	5	49	2	4,880	.....	4,731	1 149	.....	96.9	3.1	22,522,771	.....	21,853,349	1 669,422	.....	97.0	3.0
	1914	14	41	7	3,323	303	2,574	440	9.1	77.5	13.4	8,404,439	579,620	6,321,139	1,503,674	6.9	75.2	17.9	
Structural ironwork, not made in steel works or rolling mills.	1919	20	82	13	3,790	340	3,360	90	9.0	88.7	2.4	27,586,074	1,524,233	24,920,687	1,141,154	5.5	90.3	4.1	
	1914	31	64	20	4,933	351	4,482	100	7.1	90.9	2.0	10,023,040	1,051,293	14,004,473	367,274	6.6	91.1	2.3	
Tinware, not elsewhere specified.	1919	7	20	1	5,927	81	5,846	.....	1.4	98.6	.....	42,832,770	552,593	42,280,177	.....	1.3	98.7	.....
	1914	11	21	.....	3,383	65	3,318	.....	1.9	98.1	.....	12,937,296	200,889	12,736,407	.....	1.6	98.4	.....
Total for cities.....	1919	6,263	5,714	2,089	555,930	30,500	501,278	24,152	5.5	90.2	4.3	4,571,383,850	193,536,780	4,208,389,828	160,457,251	4.2	92.1	3.7	
	1914	6,477	4,774	1,907	408,976	32,895	350,084	25,307	8.0	85.7	6.2	1,845,239,978	105,490,247	1,657,111,431	80,626,300	5.7	89.6	4.4	
ALTON.....	1919	23	29	8	3,236	64	2,991	181	2.0	92.4	5.6	31,036,983	288,300	29,908,009	780,608	0.9	96.6	2.5	
	1914	40	28	8	2,662	140	2,383	139	5.3	89.5	5.2	12,894,532	435,910	12,005,442	327,174	3.4	94.0	2.6	
AURORA.....	1919	48	59	26	6,008	234	6,275	90	3.5	95.0	1.5	30,038,961	1,173,624	28,196,585	668,752	3.9	93.9	2.2	
	1914	57	56	27	4,777	264	4,090	417	5.5	85.7	8.7	10,789,833	645,855	9,230,683	912,845	6.0	85.5	8.5	
BELLEVILLE.....	1919	66	49	26	3,160	215	2,961	84	6.8	90.5	2.7	14,017,292	1,097,580	12,568,592	351,120	7.8	89.7	2.5	
	1914	71	35	23	2,450	205	2,125	120	8.4	86.7	4.9	5,727,269	370,888	5,140,553	215,828	6.5	89.8	3.8	
BERWYN.....	1919	12	2	1	25	14	11	.....	50.0	44.0	.....	155,157	112,237	42,920	.....	72.3	27.7	.....
BLOOMINGTON.....	1919	42	29	12	2,818	154	2,604	60	5.5	92.4	2.1	11,510,580	496,723	10,531,494	401,363	4.3	91.4	4.3	
	1914	48	32	20	2,384	215	2,063	100	9.0	88.5	4.4	4,803,808	729,943	3,768,827	308,038	15.1	78.5	6.4	
BLUE ISLAND.....	1919	15	12	7	1,180	67	1,028	85	5.7	87.1	7.2	7,498,870	348,789	6,822,623	327,558	4.7	91.0	4.4	
CAIRO.....	1919	14	35	6	1,792	51	1,651	90	2.8	92.1	5.0	10,526,159	265,156	9,876,612	384,391	2.5	93.8	3.7	
	1914	16	32	13	1,522	49	1,348	125	3.2	88.0	8.2	4,583,539	102,967	4,134,604	285,968	3.0	90.2	6.2	
CANTON.....	1919	17	8	8	1,266	88	1,122	80	6.8	86.6	6.0	4,558,447	280,831	4,046,370	231,240	6.2	88.8	5.1	
	1914	15	9	10	920	54	824	42	5.9	80.6	4.6	2,576,965	110,886	2,351,551	114,528	4.3	91.3	4.4	
CENTRALIA.....	1919	18	9	3	1,003	56	937	10	5.0	93.4	1.0	3,010,556	298,960	2,540,616	170,974	9.9	84.4	5.7	
	1914	17	8	5	237	54	156	27	22.8	65.8	11.4	767,533	192,800	405,512	100,221	25.1	60.7	14.2	
CHAMPAIGN.....	1919	40	22	18	1,063	142	847	74	13.4	70.7	7.0	5,187,010	864,042	3,892,689	430,279	16.7	75.0	8.3	
	1914	30	10	10	382	83	281	18	21.7	73.6	4.0	1,244,696	277,350	903,003	64,334	22.8	72.6	5.2	
CHICAGO.....	1919	4,730	4,269	1,538	403,942	24,381	360,605	18,956	6.0	89.3	4.7	3,657,424,471	162,693,551	3,353,440,991	141,280,929	4.4	91.7	3.9	
	1914	5,078	3,613	1,424	313,710	27,532	295,955	20,223	8.8	84.8	6.4	1,483,498,416	89,213,226	1,320,405,505	64,810,055	6.0	89.6	4.4	
CHICAGO HEIGHTS.....	1919	33	54	16	5,328	79	5,204	45	1.5	97.7	0.8	41,788,147	531,486	41,026,511	230,160	1.3	98.2	0.6	
	1914	20	46	11	4,288	56	4,202	30	1.3	98.0	0.7	14,485,569	145,234	14,147,466	192,809	1.0	97.7	1.3	
CICERO.....	1919	44	40	8	14,754	66	14,615	78	0.4	99.1	0.5	57,918,418	553,602	57,023,700	341,216	1.0	98.5	0.6	
DANVILLE.....	1919	55	35	22	3,343	182	2,499	602	5.4	74.8	19.8	15,005,953	963,885	11,662,718	2,379,350	6.4	77.7	15.9	
	1914	47	32	21	2,100	156	1,705	248	7.4	80.8	11.8	5,291,160	432,962	4,458,271	399,927	8.2	84.3	7.6	
DECATUR.....	1919	37	54	12	5,093	106	5,420	167	1.9	95.2	2.9	38,683,689	787,728	37,227,991	667,970	2.0	96.2	1.7	
	1914	58	61	17	4,003	286	3,451	266	7.1	86.2	6.6	11,957,406	648,318	10,795,152	513,936	5.4	93.3	4.3	
EAST ST. LOUIS.....	1919	63	82	12	8,785	152	8,601	32	1.7	97.9	0.4	77,292,812	1,415,780	75,689,625	187,407	1.8	97.9	0.2	
	1914	52	65	8	5,883	276	5,564	23	4.7	94.9	0.4	26,904,565	858,128	25,970,434	76,003	3.2	96.5	0.3	
ELGIN.....	1919	27	41	12	6,846	139	6,607	40	2.0	97.4	0.6	25,648,891	418,553	24,552,173	678,165	1.6	95.7	2.6	
	1914	34	42	15	5,529	157	5,205	167	2.8	94.1	3.0	10,491,829	328,568	9,770,805	392,456	3.1	93.1	3.7	
EVANSTON.....	1919	47	25	29	1,405	98	1,127	180	7.0	80.2	12.8	9,791,025	339,698	7,833,691	1,017,636	8.6	81.0	10.4	
	1914	22	11	16	924	58	1,157	709	6.3	17.0	76.7	3,984,824	164,873	544,315	3,275,638	4.1	13.7	82.2	
FOREST PARK.....	1919	19	8	1	192	54	138	.....	28.1	71.9	.....	1,016,236	280,907	735,329	.....	27.6	72.4	.....
FREEPORT.....	1919	36	32	8	3,177	168	2,930	79	5.3	92.2	2.5	18,405,204	860,932	16,109,901	1,434,371	4.7	87.5	7.8	
	1914	29	26	8	2,566	153	2,380	83	6.0	90.8	3.2	7,446,977	460,442	6,628,929	367,606	6.2	89.0	4.8	
GALESBURG.....	1919	30	30	17	2,222	69	1,999	154	3.1	90.0	6.9	10,352,242	398,364	8,698,401	1,255,477	3.8	84.0	12.1	
	1914	19	28	13	1,362	45	1,207	110	3.3	88.6	8.1	3,192,129	136,276	2,685,225	370,628	4.3	84.1	11.6	
GRANITE CITY.....	1919	15	15	7	5,493	26	5,422	45	0.5	98.7	0.8	43,039,044	185,927	42,698,546	154,571	0.4	99.2	0.4	
	1914	19	13	7	5,080	53	5,012	25	1.0	98.5	0.5	17,903,162	131,988	17,693,958	77,216	0.7	98.8	0.4	
HERRIN.....	1919	7	1	4	52	30	.....	22	57.7	.....	42.3	285,225	140,288	.....	144,937	49.2	.....	50.8
JACKSONVILLE.....	1919	27	18	14	1,091	71	786	234	6.5	72.0	21.4	7,126,506	266,717	5,850,177	1,009,612	3.7	82.1	14.2	
	1914	30	17	16	932	108	613	211	11.6	65.8	22.6	2,355,192	271,462	1,276,423	807,307	11.5	54.2	34.3	
JOLIET.....	1919	72	72	22	11,259	698	10,502	59	6.2	93.3	0.5	82,609,536	2,382,447	79,855,422	421,667	2.9	96.6	0.5	
	1914	75	43	18	4,999	215	4,622	162	4.3	92.5	3.2	30,091,415	665,072	28,938,610	487,733	2.2	96.2	1.6	
KANKAKEE.....	1919	17	23	14	1,950	50	1,801	108	2.6	91.9	5.5	7,287,117	291,427	6,257,306	738,384	4.0	85.9	10.1	
	1914	21	19	13	1,430	129	1,107	134	9.0	81.6	9.4	3,193,020	352,962	2,544,803	295,255	11.1			

TABLE 14.—CHARACTER OF OWNERSHIP, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919 AND 1914—Continued.

INDUSTRY AND CITY.	Cen- sus year.	NUMBER OF ESTABLISHMENTS OWNED BY—			AVERAGE NUMBER OF WAGE EARNERS.									VALUE OF PRODUCTS.								
		Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Total.	In establishments owned by—			Per cent of total.			Total.	Of establishments owned by—			Per cent of total.						
						Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.		Indi- vid- uals.	Corpora- tions.	All oth- ers.	Indi- vid- uals.	Corpora- tions.	All oth- ers.				
KEWANEE.....	1919	15	13	9	3,909	27	3,808	74	0.7	97.4	1.9	\$16,278,508	\$163,451	\$15,638,976	\$478,081	1.0	96.1	2.9				
	1914	11	9	11	2,837	17	2,746	74	0.6	96.8	2.6	5,446,015	54,481	5,070,774	321,360	1.0	93.1	5.9				
LA SALLE.....	1919	25	9	4	1,792	74	1,700	18	4.1	94.9	1.0	9,533,706	603,143	8,804,126	126,437	6.3	92.3	1.3				
	1914	19	7	4	1,214	74	1,134	6	6.1	93.4	0.5	5,245,780	253,487	4,971,510	20,783	4.8	94.8	0.4				
LINCOLN.....	1919	14	11	8	194	33	137	24	17.0	70.6	12.4	784,734	189,823	447,344	147,537	24.2	57.0	18.8				
	1914	17	10	13	239	50	146	43	20.9	61.1	18.0	560,637	106,930	367,932	85,775	19.1	65.6	15.3				
MATTOON.....	1919	37	13	15	1,134	101	984	49	8.9	86.8	4.3	4,051,058	636,545	3,099,887	314,626	15.7	76.5	7.8				
	1914	24	14	9	735	57	641	37	7.8	87.2	5.0	1,543,727	239,151	1,091,074	213,502	15.5	70.7	13.8				
MAYWOOD.....	1919	13	7	7	2,217	30	2,181	6	1.4	98.4	0.3	14,432,705	218,975	14,174,360	39,870	1.5	98.2	0.3				
MOLINE.....	1919	14	37	10	5,444	113	5,307	24	2.1	97.5	0.4	44,871,021	483,994	44,211,889	175,138	1.1	98.5	0.4				
	1914	41	50	17	5,063	104	4,925	24	2.1	97.5	0.5	19,925,106	406,291	19,422,034	96,781	2.0	97.5	0.5				
MURPHYSBORO.....	1919	10	14	4	1,139	25	1,110	4	2.2	97.5	0.4	6,208,317	142,560	6,017,340	48,417	2.3	96.9	0.8				
OAK PARK.....	1919	29	11	4	353	47	328	8	12.3	85.6	2.1	2,280,640	459,365	1,773,779	47,496	20.1	77.8	2.1				
	1914	27	9	11	268	29	220	19	10.8	82.1	7.1	1,555,083	180,846	1,248,278	125,959	11.6	80.3	8.1				
OTTAWA.....	1919	39	17	6	729	224	480	25	30.7	65.8	3.4	3,223,647	738,772	2,329,656	155,219	22.9	72.3	4.8				
PEKIN.....	1919	20	12	5	934	91	820	23	9.7	87.8	2.5	25,663,968	232,278	25,117,587	314,103	0.9	97.9	1.2				
	1914	26	11	7	634	90	510	34	14.2	80.4	5.4	9,609,500	192,837	9,248,300	168,308	2.0	96.2	1.8				
PEORIA.....	1919	107	105	41	7,977	509	7,103	365	6.4	89.0	4.6	57,074,893	2,897,443	51,112,143	3,065,307	5.1	89.5	5.4				
	1914	125	102	56	6,285	565	5,370	350	9.0	85.4	5.6	64,689,045	2,933,675	60,551,655	1,203,715	4.5	93.6	1.9				
QUINCY.....	1919	85	83	15	4,443	450	3,921	72	10.1	88.2	1.6	23,498,813	1,900,850	20,969,303	538,660	8.5	89.2	2.3				
	1914	93	76	25	3,067	271	2,508	288	8.8	81.8	9.4	9,556,918	961,486	7,604,410	901,016	10.1	79.6	10.4				
ROCK ISLAND.....	1919	40	36	7	3,208	169	2,939	100	5.3	91.6	3.1	22,350,114	1,011,310	20,925,267	413,537	4.5	93.6	1.9				
	1914	48	38	20	1,837	175	1,582	80	9.5	86.1	4.4	6,487,859	411,210	5,861,062	215,647	6.3	90.3	3.3				
ROCKFORD.....	1919	94	180	38	14,992	399	13,416	1,177	2.7	89.5	7.9	74,918,953	2,169,687	67,551,216	5,198,050	2.9	90.2	6.9				
	1914	91	143	31	10,472	446	9,335	691	4.3	89.1	6.6	26,371,219	1,237,464	23,409,394	1,724,361	4.7	88.8	6.5				
SPRINGFIELD.....	1919	82	58	41	5,365	411	4,527	427	7.7	84.4	8.0	22,723,365	1,630,118	19,265,748	1,827,499	7.2	84.8	8.0				
	1914	95	48	46	4,157	432	3,395	330	10.4	81.7	7.9	11,769,969	1,239,865	9,659,416	870,688	10.5	82.1	7.4				
STREATOR.....	1919	42	18	9	1,301	213	1,025	63	16.4	78.8	4.8	6,662,302	916,723	5,251,276	494,303	13.8	78.8	7.4				
	1914	35	17	8	1,763	223	1,514	26	12.6	85.9	1.5	3,886,617	302,423	3,462,452	121,742	7.8	89.1	3.1				
URBANA.....	1910	20	12	11	509	42	427	40	8.3	83.9	7.9	1,450,522	166,663	1,091,276	192,583	11.5	75.2	13.3				
WAUKEGAN.....	1919	23	25	4	2,538	88	2,422	28	3.5	95.4	1.1	24,003,002	647,634	23,340,703	104,725	2.7	96.9	0.4				
	1914	27	15	6	2,276	74	2,192	10	3.3	96.3	0.4	12,438,514	242,976	12,130,063	65,475	2.0	97.5	0.5				

TABLE 15.—MANUFACTURES, BY POPULATION GROUPS, IN CITIES OF 10,000 INHABITANTS OR MORE: 1919, 1914, AND 1909.

	Cen- sus year.	Aggregate.	CITIES HAVING A POPULATION OF 10,000 OR OVER.								THE STATE OUTSIDE OF CITIES HAVING A POPULATION OF 10,000 OR OVER. ¹	
			Total.		10,000 to 25,000.		25,000 to 100,000.		100,000 and over.			
			Number or amount.	Per cent of aggre- gate.	Number or amount.	Per cent of aggre- gate.	Number or amount.	Per cent of aggre- gate.	Number or amount.	Per cent of aggre- gate.	Number or amount.	Per cent of aggre- gate.
Number of places.....	1919		44	-----	27	-----	16	-----	1	-----		
	1914		35	-----	20	-----	14	-----	1	-----		
	1909		32	-----	20	-----	11	-----	1	-----		
Population *.....	1920	6,485,280	3,808,158	58.7	406,143	6.3	700,310	10.8	2,701,705	41.7	2,677,122	41.3
	1915	5,986,781	3,276,504	54.7	318,472	5.3	560,432	9.4	2,397,600	40.0	2,710,277	45.3
	1910	5,638,591	2,960,963	52.3	331,285	5.9	434,305	7.7	2,185,283	38.8	2,687,628	47.7
Number of establishments.....	1919	18,593	14,066	75.7	1,385	7.4	2,144	11.5	10,537	56.7	4,527	24.3
	1914	18,388	13,218	71.9	1,091	5.9	2,012	10.9	10,115	55.0	5,170	28.1
	1909	18,029	12,520	69.5	1,076	6.0	1,788	9.9	9,666	53.6	5,506	30.5
Average number of wage earners.....	1919	653,114	555,930	85.1	48,665	7.5	103,323	15.8	403,942	61.8	97,184	14.9
	1914	506,943	408,970	80.7	33,807	6.7	61,459	12.1	313,710	61.9	97,967	19.3
	1909	465,764	379,100	81.4	32,893	7.1	52,236	11.2	293,977	63.1	86,064	18.6
Value of products.....	1919	\$5,425,244,604	\$4,571,383,850	84.3	\$317,672,724	5.9	\$599,286,664	11.0	\$3,657,424,471	67.4	\$353,860,835	15.7
	1914	2,247,322,819	1,843,239,978	82.0	116,627,056	5.2	243,114,506	10.8	1,483,498,416	66.0	404,082,841	18.0
	1909	1,919,276,594	1,592,407,931	83.0	109,948,749	5.7	201,288,001	10.5	1,281,171,181	66.8	326,808,668	17.0
Value added by manufacture.....	1919	1,936,974,248	1,678,564,469	86.7	133,355,969	6.9	267,026,247	13.8	1,278,182,243	66.0	258,409,789	13.3
	1914	907,139,412	757,599,917	83.5	52,843,874	5.8	123,191,021	13.6	581,665,022	64.1	149,539,495	16.5
	1909	758,349,904	640,926,350	84.5	45,869,118	6.0	104,494,815	13.8	490,562,423	64.7	117,423,548	15.5

¹ Includes statistics for Cicero for 1914 to avoid disclosure of individual operations.² Population of 1920, as of Jan. 1, 1920; 1915, estimated population as of July 1, 1914 (per reports census of manufactures, 1914); 1910, as of Apr. 15, 1910.

TABLE 16.—PRINCIPAL INDUSTRIES IN CITIES OF 50,000 INHABITANTS OR MORE, WITH PER CENT OF TOTAL FOR STATE: 1919.

CITY AND INDUSTRY.	VALUE OF PRODUCTS.				CITY AND INDUSTRY.	VALUE OF PRODUCTS.			
	Amount, 1919.	Per cent of total for the state.	Increase ¹ over 1914.			Amount, 1919.	Per cent of total for the state.	Increase ¹ over 1914.	
			Amount.	Per cent.				Amount.	Per cent.
CHICAGO.					EAST ST. LOUIS—Continued.				
Slaughtering and meat packing.....	\$1,083,090,049	84.3	\$676,106,782	166.1	Liquors, malt.....				
Clothing, men's.....	190,016,924	96.2	106,622,855	127.9	Petroleum, refining.....				
Foundry and machine-shop products ²	140,493,305	56.0	83,487,602	146.5	Roofing materials.....				
Printing and publishing, book and job.....	104,556,091	94.3	53,719,983	105.7	Slaughtering and meat packing.....	(³)	(³)	(³)	(³)
Electrical machinery, apparatus, and supplies.....	78,347,552	65.5	60,779,128	346.0	Smelting and refining, zinc.....				
Bread and other bakery products.....	77,542,298	75.5	43,325,050	126.6	Springs, steel, railway.....				
Cars, steam-railroad, not including opera- tions of railroad companies.....	77,229,022	61.7	26,298,331	51.6	Structural ironwork, not made in steel works or rolling mills.....				
Printing and publishing, newspapers and periodicals.....	70,741,226	79.5	35,118,406	98.6	Sulphuric, nitric, and mixed acids.....				
Clothing, women's.....	64,203,210	94.4	44,992,073	234.2	PEORIA.				
Confectionery and ice cream.....	61,577,267	84.2	38,597,563	108.0	Bread and other bakery products.....	\$2,148,132	2.1	\$1,090,987	103.2
Food preparations, not elsewhere speci- fied.....	57,055,131	60.5	47,007,415	467.8	Cooperage, hogsheads and barrels.....	1,474,438	12.7	298,203	25.4
Automobiles.....	51,304,371	66.6	49,063,465	2,189.4	Printing and publishing, newspapers and periodicals.....	1,092,411	1.2	485,303	70.9
Leather, tanned, curried, and finished.....	50,519,773	83.7	34,857,031	222.5	Flour-mill and gristmill products.....	909,318	0.8	94,791	11.6
Furniture.....	41,612,337	68.5	18,262,526	78.2	Foundry and machine-shop products.....	741,656	0.3	411,686	124.8
Cars and general shop construction and repairs by steam-railroad companies.....	41,589,061	40.3	24,901,132	149.2	Printing and publishing, book and job.....	697,024	0.6	284,048	68.8
Paints.....	39,190,068	91.0	21,625,227	123.1	Brass and bronze products.....	607,080	2.4	(³)	(³)
Soap.....	25,504,617	99.1	4,249,187	20.0	Confectionery and ice cream.....	600,309	0.8	(³)	(³)
Tinware, not elsewhere specified.....	24,378,445	56.9	17,734,111	206.9	Lumber, planing-mill products, not in- cluding planing mills connected with sawmills.....	561,844	1.6	125,341	28.7
Lumber, planing-mill products, not in- cluding planing mills connected with sawmills.....	23,037,294	66.6	3,176,435	16.0	Agricultural implements.....				
Musical instruments, pianos.....	22,214,575	72.0	11,206,211	101.8	Butter.....				
Flour-mill and gristmill products.....	22,109,077	19.0	(³)	(³)	Cars and general shop construction and repairs by steam-railroad companies.....				
Structural ironwork, not made in steel works or rolling mills.....	20,767,777	75.3	7,031,495	51.2	Clothing, women's.....				
Liquors, malt.....	20,672,801	75.3	-8,300,485	-28.9	Coffee, roasting and grinding.....				
Brass, bronze, and copper products.....	20,422,138	81.3	14,108,208	223.4	Copper, tin, and sheet-iron work.....				
Millinery and lace goods, not elsewhere specified.....	19,523,877	98.4	(³)	(³)	Cordage and twine.....				
Boxes, paper and other, not elsewhere specified.....	19,250,017	66.6	12,805,005	177.2	Druggists' preparations.....				
Automobile bodies and parts.....	18,241,093	65.5	15,781,898	641.7	Food preparations, peanut butter and sweetening sirups, other than cane.....				
Boots and shoes.....	17,595,506	44.7	5,932,409	50.9	Gas, illuminating and heating.....	(³)	(³)	(³)	(³)
Patent medicines and compounds.....	15,595,717	61.4	7,031,851	95.8	Gloves and mittens, cloth, not including gloves made in textile mills.....				
Boxes, wooden packing, except cigar boxes.....	14,549,219	77.2	7,062,571	94.3	Liquors, distilled, grain alcohol.....				
Roofing materials.....	13,744,658	49.9	9,233,885	204.7	Liquors, malt.....				
Pickles, preserves, and sauces.....	12,824,790	67.3	8,147,135	174.2	Malt.....				
Varnishes.....	11,115,727	94.8	5,800,893	111.9	Paper and wood pulp.....				
Phonographs and graphophones.....	10,983,651	85.5	(³)	(³)	Patent medicines and compounds.....				
Hardware.....	10,589,350	47.2	5,447,587	105.9	Pickles, preserves, and sauces.....				
Agricultural implements.....					Scales and balances.....				
Babbitt metal and solder.....					Slaughtering and meat packing.....				
Baking powders and yeast.....					Stoves and hot-air furnaces.....				
Chewing gum.....					Tinware, not elsewhere specified.....				
Coffee and spice, roasting and grinding.....					ROCKFORD.				
Cordials and flavoring sirups.....					Foundry and machine-shop products ⁴	13,729,359	5.5	11,285,824	461.9
Gas, illuminating and heating.....					Furniture.....	9,839,745	10.2	5,251,822	114.5
Grease and tallow, not including lubri- cating greases.....					Knit goods.....	9,728,405	47.5	5,821,157	149.0
Instruments, professional and scientific.....					Bread and other bakery products.....	1,160,595	1.1	608,369	110.2
Iron and steel, blast furnaces.....	(³)	(³)	(³)	(³)	Clothing, men's.....	1,132,613	0.6	(³)	(³)
Iron and steel, steel works and rolling mills.....	(³)	(³)	(³)	(³)	Pumps, not including power pumps.....	832,414	44.9	352,314	73.4
Oil and cake, cottonseed.....					Confectionery and ice cream.....	732,788	1.0	578,527	376.0
Oleomargarine and other butter substi- tutes.....					Printing and publishing, newspapers and periodicals.....	583,507	0.7	330,393	130.5
Shipbuilding, steel.....					Agricultural implements.....				
Steam fittings and steam and hot-water heating apparatus.....					Automobile bodies and parts.....				
Tobacco, chewing and smoking, and snuff.....					Boots and shoes.....				
Window shades and fixtures.....					Cash registers and calculating machines.....				
EAST ST. LOUIS.					Gas, illuminating and heating.....				
Flour-mill and gristmill products.....	14,785,792	12.7	8,074,390	154.4	Hardware.....				
Food preparations, peanut butter and sweetening sirups, other than cane.....	8,125,948	8.6	(³)	(³)	Iron and steel forgings, not made in steel works or rolling mills.....	(³)	(³)	(³)	(³)
Cars and general shop construction and repairs by steam-railroad companies.....	3,265,803	3.2	1,989,605	155.9	Leather, tanned, curried, and finished.....				
Paints.....	2,198,681	5.1	(³)	(³)	Musical instruments, pianos.....				
Bread and other bakery products.....	559,187	0.5	221,091	66.0	Musical instruments, piano materials.....				
Baking powders.....					Paper and wood pulp.....				
Chemicals.....					Saddlery and harness.....				
Electrical machinery, apparatus, and supplies.....					Sewing machines.....				
Fertilizers.....					Stoves, gas and oil.....				
Flax and hemp, dressed.....					SPRINGFIELD.				
Foundry and machine-shop products.....	(³)	(³)	(³)	(³)	Foundry and machine-shop products.....	2,030,208	0.9	1,569,398	340.6
Gas, illuminating and heating.....					Cars and general shop construction and repairs by steam-railroad companies.....	971,251	0.9	561,088	136.8
Glass.....					Printing and publishing, newspapers and periodicals.....	955,904	1.1	349,891	57.7
Iron and steel, steel works and rolling mills.....					Bread and other bakery products.....	883,376	0.9	513,418	138.8
Iron and steel, forgings, not made in steel works or rolling mills.....					Agricultural implements.....				
					Boots and shoes.....				
					Butter.....				
					Electrical machinery, apparatus, and supplies.....	(³)	(³)	(³)	(³)
					Flour-mill and gristmill products.....				
					Watches.....				

¹ A minus sign (—) denotes decrease.² Includes "iron and steel, tempering and welding" and "machine tools."³ Figures can not be shown without disclosing individual operations.⁴ Includes "iron and steel, tempering and welding"; "machine tools"; and "textile machinery and parts."

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TABLE 17.—NUMBER AND HORSEPOWER OF TYPES OF PRIME MOVERS: 1919, 1914, AND 1909.

POWER.	NUMBER OF ENGINES OR MOTORS.			HORSEPOWER.					
	1919	1914	1909	Amount.			Per cent distribution.		
				1919	1914	1909	1919	1914	1909
Primary power, total.....	85,901	51,484	30,546	1,660,918	1,805,930	1,013,071	100.0	100.0	100.0
Owned.....	6,638	8,003	8,700	1,064,706	1,021,759	839,348	64.1	78.2	87.8
Steam.....	5,294	6,142	6,728	997,838	947,949	839,632	60.0	72.6	82.9
Engines.....	4,884	(2)	(2)	779,156	(2)	(2)	46.9		
Turbines.....	410	(2)	(2)	218,182	(2)	(2)	13.1		
Internal-combustion engines.....	1,195	1,672	1,755	55,782	61,500	37,025	3.4	4.7	3.7
Water.....	149	180	217	11,586	12,810	12,691	0.7	0.9	1.3
Water wheels and turbines.....	126	148	182	11,438	11,965	12,178	0.7	0.9	1.2
Water motors.....	28	41	35	148	345	513	(3)	(3)	0.1
Rented.....	79,263	43,481	21,846	596,212	284,171	123,723	35.9	21.8	12.2
Electric.....	79,263	43,481	21,846	590,241	272,662	117,007	35.5	20.9	11.5
Other.....				6,971	11,509	6,716	0.4	0.9	0.7
Electric.....	122,769	72,094	39,278	1,174,567	681,474	398,621	100.0	100.0	100.0
Rented.....	79,263	43,481	21,846	590,241	272,662	117,007	50.3	40.0	20.4
Generated by establishments reporting.....	43,506	28,613	17,432	584,326	408,812	281,614	49.7	60.0	79.6

¹ Figures for horsepower include for 1909 the amount reported under the head of "Other" owned power. ² Not reported separately. ³ Less than one-tenth of 1 per cent.

TABLE 18.—FUEL CONSUMED, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919.

INDUSTRY AND CITY.	COAL.		Coke (tons, 2,000 pounds).	Fuel oils (barrels).	Gasoline and other volatile oils (barrels).	Gas (1,000 cubic feet).
	Anthracite (tons, 2,240 pounds).	Bituminous (tons, 2,000 pounds).				
All industries.....	238,451	16,502,727	3,903,043	4,876,501	114,255	3,557,698
Per cent of increase.....	1919.. 1914..	219,614 14,490,282	2,689,250 45.1	4,111,390 21.4	(1) (1)	1,831,684 94.2
Agricultural implements.....	98	288,295	43,202	164,194	5,052	206,742
Bread and other bakery products.....	19,581	50,996	44,779	5,587	6,944	182,748
Brick and tile, terra-cotta, and fire-clay products.....	4,949	745,465	2,069	168,405	3,171	
Cars and general shop construction and repairs by steam-railroad companies.....	822	872,527	2,741	110,744	1,057	1,837
Cars, steam-railroad, not including operations of railroad companies.....	709	177,503	21,114	149,754	646	5,577
Cement.....		389,612				
Chemicals.....	132	407,312	20,353	11,110	610	15,369
Coke, not including gas-house coke.....		2,457,620		8,086		
Electrical machinery, apparatus, and supplies.....	424	124,772	7,002	8,674	4,581	444,098
Engines, steam, gas, and water.....	66	60,740	11,888	38,035	12,111	143,516
Flour-mill and gristmill products.....	269	179,678	964	1,087	1,006	125
Food preparations, not elsewhere specified.....	270	145,941	1,320	5	90	48,076
Foundry and machine-shop products.....	3,421	561,101	148,618	93,135	8,593	184,339
Furniture.....	1,915	96,587	682	180	266	19,685
Gas, illuminating and heating.....	77,309	619,818	487,850	2,147,511	196	4,748
Glass.....	3	418,860	120,000	52,657	30	200
Glucose and starch.....		485,876	12,336			23,315
Glue, not elsewhere specified.....	4	118,112	72	246		138
Ice, manufactured.....	1,302	259,087	660	375	47	74
Iron and steel, blast furnaces.....		48,798	2,658,685	77		
Iron and steel, steel works and rolling mills.....	1,103	1,792,476	33,325	575,473	30,450	452,948
Iron and steel forgings, not made in steel works or rolling mills.....	1,238	100,511	1,840	54,742	33	25,004
Leather, tanned, curried, and finished.....	351	100,851		10		
Liquors, malt.....	3,528	227,091	626	112	915	500
Paints.....	74	80,947	4,946	8,670	3	2,163
Paper and wood pulp.....		275,179	5,568	1,016	115	
Petroleum, refining.....		533,215	3,192	809,885	11	
Roofing materials.....		145,883		41,601	59	27,195
Slaughtering and meat packing.....		1,550,216	935	48,440	1,035	136,009
Smelting and refining, lead.....		20,854	32,753	1,866		
Smelting and refining, zinc.....	58,233	591,106	101,208	11	835	
Steam fittings and steam and hot-water heating apparatus.....	6,362	67,754	34,507	71,551	225	35,392
Stoves and hot-air furnaces.....	318	38,615	15,639	347	161	92
Structural ironwork, not made in steel works or rolling mills.....	192	65,938	5,811	11,130	4,712	16,768
Tools, not elsewhere specified.....	67	33,908	604	31,804	102	22,318
Wire.....	1,944	153,384	1,675	4,072	472	4,244
All other industries.....	53,707	2,203,593	76,618	269,509	31,268	1,553,829
Total for cities.....	182,557	12,684,582	3,739,856	3,694,245	91,304	3,222,874
ALTON.....		199,134	121,743	3,511	3,352	167
AURORA.....	431	74,379	10,984	31,005	346	32,319
BELLEVIEW.....	77	38,219	6,239	211	308	3,555
BERWYN.....	29	77	134		72	262
BLOOMINGTON.....	10	52,841	2,255	18,437	51	
BLUE ISLAND.....	4,933	72,299	8,412	57,567	37	685
CAIRO.....	50	21,723	125	686	73	
CANTON.....		31,130	2,013	8,247	20	286
CENTRALIA.....	32	22,293	153	470	2	539
CHAMPAIGN.....		17,824	1,129	12,300	15	1,577

¹ Included in figures for fuel oils.

TABLE 18.—FUEL CONSUMED, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919—Continued.

INDUSTRY AND CITY.	COAL.		Coke (tons, 2,000 pounds).	Fuel oils (barrels).	Gasoline and other volatile oils (barrels).	Gas (1,000 cubic feet).
	Anthracite (tons, 2,240 pounds).	Bituminous (tons, 2,000 pounds).				
CHICAGO.....	146,219	6,702,976	2,919,398	2,751,355	39,175	2,718,429
CHICAGO HEIGHTS.....	984	220,929	0,771	52,373	31,006	2,816
CICERO.....	4,830	155,567	26,174	26,132	4,613	189,038
DANVILLE.....	4	184,261	952	8,822	617	45,034
DECATUR.....	300	202,081	3,856	20,139	191	12,495
EAST ST. LOUIS.....	0,838	567,833	04,158	99,125	251	8,002
ELGIN.....	42	37,298	1,028	778	79	33,401
EVANSTON.....	3,424	46,352	15,211	92,662	47	608
FOREST PARK.....	25	898	90	1	113	.....
FREESPORT.....	46	52,518	6,599	0,482	177	5,621
GALESBURG.....	14	84,138	1,941	0,678	43	5,540
GRANITE CITY.....	.....	205,500	5,006	125,178	762	2,598
HERRIN.....	145	2,016	.....	.....	23	.....
JACKSONVILLE.....	48	21,127	604	966	27	2,557
JOLIET.....	221	1,047,026	408,825	10,125	676	7,666
KANKAKEE.....	49	48,027	272	42	102	.....
KEWANEE.....	2	55,370	10,754	37,001	135	8,018
LA SALLE.....	7,788	330,046	2,461	582	166	452
LINCOLN.....	7	8,393	110	.....	35	648
MATTOON.....	.....	24,154	151	.....	10	240
MAYWOOD.....	2,192	21,036	280	.....	1	9,312
MOLINE.....	45	77,185	19,082	87,952	1,243	7,323
MURPHYSBORO.....	64	47,458	1,691	0,311	142	206
OAK PARK.....	399	12,598	21,414	75,464	95	888
OTTAWA.....	.....	45,300	2,021	8,641	311	396
PEKIN.....	502	133,753	4,701	6	34	360
PEORIA.....	740	336,154	8,970	0,033	2,036	32,664
QUINCY.....	704	96,055	0,534	1,897	99	8,329
ROCK ISLAND.....	14	38,270	4,271	11,828	3,718	27,692
ROCKFORD.....	655	205,970	8,703	38,274	209	39,265
SPRINGFIELD.....	103	90,997	2,039	22,215	847	10,384
STREATOR.....	498	160,546	693	32,507	13	158
URBANA.....	.....	11,566	240	.....	.....	343
WAUKEGAN.....	94	221,277	1,000	21,342	123	5,421

SPECIAL STATISTICS.

For a number of important industries the Census Bureau collects, by means of special schedules, certain details which do not appear on the general schedule. Data for 17 of these industries in Illinois are here presented.

Slaughtering and meat packing (Table 19).—This table presents data for the census years 1919, 1914, and 1909 for the number and cost of the most important classes of animals slaughtered; the cost of all other materials, which includes that for dressed meat purchased for curing, goats and kids, poultry, cottonseed oil for making lard compounds and substitutes, butter and whole milk for making oleomargarine, curing materials, seasoning, containers, materials for making ice, fuel, rent of power, mill supplies, and freight; and the quantity and value of the leading products that can be presented without disclosing individual operations. The value of the minor and auxiliary products is reported under "All other products" and, for 1919, includes that for canned sausage, meat puddings, headcheese and scrapple, lard oil, oil (not specified), skins (other than cattle,

calf, and sheep), ice, stock feed, refined cottonseed oil, and preserves. The value of goat and kid meat and dressed poultry is included in that for "Edible offal and other fresh meat."

The number of animals slaughtered in 1919 for which totals are shown was 18,061,773, and in 1914, 14,393,048, an increase of 3,668,725, or 25.5 per cent. The meat production in 1919, as presented in the table, was 2,222,477,098 pounds of fresh meat, as compared with 1,710,176,962 pounds in 1914, an increase of 512,300,136 pounds, or 30 per cent.

In 1919 the quantity of cured meat, canned goods, and sausage totaled 1,555,178,623 pounds, as compared with 1,113,239,889 pounds in 1914, an increase of 441,938,734 pounds, or 39.7 per cent. These three classes of products combined show an increase in quantity during the five-year period of 954,238,870 pounds, or 33.8 per cent. The increases in value are much greater than for quantities but are deemed of less significance as an indication of the growth of the industry.

TABLE 19.—SLAUGHTERING AND MEAT PACKING: 1919, 1914, AND 1909.

	1919	1914	1909
MATERIALS.			
Total cost.....	\$1,142,950,492	\$408,895,070	\$341,347,677
Animals slaughtered, cost.....	\$796,732,706	\$301,635,505	\$241,856,653
Beefes—			
Number.....	2,887,414	1,804,982	2,181,199
Cost.....	\$292,428,922	\$133,022,896	\$109,990,873
Calves—			
Number.....	839,604	429,616	513,639
Cost.....	\$17,310,534	\$5,685,254	\$4,720,290
Sheep and lambs—			
Number.....	4,358,564	4,882,940	3,892,142
Cost.....	\$49,135,520	\$27,342,079	\$19,429,169
Hogs—			
Number.....	9,976,191	7,205,510	7,293,544
Cost.....	\$437,857,730	\$135,585,276	\$107,716,321
All other materials, cost.....	\$346,217,786	\$107,259,565	\$99,491,024
PRODUCTS.			
Total value.....	\$1,284,103,016	\$485,362,180	\$386,365,962
Fresh meat, value.....	\$433,441,943	\$106,155,448	\$146,905,360
Beef—			
Pounds.....	1,364,421,895	1,000,942,830	1,142,920,916
Value.....	\$247,315,429	\$117,139,784	\$85,704,478
Veal—			
Pounds.....	77,851,254	41,888,494	51,859,193
Value.....	\$15,327,876	\$5,474,481	\$4,781,751
Mutton and lamb—			
Pounds.....	162,303,710	197,647,411	157,615,125
Value.....	\$41,973,511	\$23,094,431	\$15,051,397
Pork—			
Pounds.....	462,665,805	374,315,928	303,896,802
Value.....	\$112,403,650	\$43,380,794	\$30,221,023
Edible offal and other fresh meat—			
Pounds.....	155,234,434	95,882,299	192,514,645
Value.....	\$16,421,477	\$7,065,958	\$11,146,711
Cured meat, value.....	\$359,349,819	\$115,863,408	\$82,725,501
Beef, pickled and other cured—			
Pounds.....	59,074,801	32,738,293	53,965,719
Value.....	\$12,540,976	\$5,361,447	\$4,676,501
Pork, pickled and other cured—			
Pounds.....	1,181,812,053	854,815,194	720,216,994
Value.....	\$346,808,843	\$110,501,961	\$78,049,000
Canned goods:			
Pounds.....	133,676,624	113,047,300	78,155,327
Value.....	\$45,001,662	\$18,087,864	\$9,677,618
Sausage:			
Pounds.....	180,615,145	112,639,102	113,631,970
Value.....	\$42,431,818	\$16,030,839	\$11,654,787
Lard:			
Pounds.....	467,185,468	335,695,330	403,177,806
Value.....	\$146,123,019	\$36,870,104	\$40,592,051
Lard compounds and other substitutes:			
Pounds.....	163,898,342	95,574,742	(¹)
Value.....	\$33,230,161	\$7,978,766	(¹)
Oleo oil:			
Gallons.....	5,870,914	6,156,607	7,938,568
Value.....	\$11,310,060	\$4,595,781	\$6,694,011
Tallow and oleo stock:			
Pounds.....	63,841,942	48,889,548	44,319,780
Value.....	\$9,449,570	\$3,349,702	\$2,719,969
Grease and soap stock:			
Pounds.....	44,874,551	16,633,001	(¹)
Value.....	\$4,705,248	\$898,630	(¹)
Oleo stearin:			
Pounds.....	13,953,689	7,850,351	18,739,840
Value.....	\$2,255,342	\$737,475	\$2,380,908
Oleomargarine:			
Pounds.....	76,034,222	40,493,679	30,793,365
Value.....	\$22,681,311	\$5,975,688	\$4,413,578
Casings:			
Pounds.....	52,121,619	31,421,770	(¹)
Value.....	\$8,578,978	\$4,554,942	(¹)
Hoofs, horns, horntips, strips, and waste:			
Pounds.....	19,775,088	23,302,458	(¹)
Value.....	\$581,876	\$229,280	(¹)
Fertilizer, and fertilizer materials:			
Tons.....	118,996	91,163	102,638
Value.....	\$5,135,708	\$2,692,831	\$2,614,087
Glue:			
Pounds.....	13,896,858	19,623,781	10,806,271
Value.....	\$1,838,481	\$1,704,326	\$609,182
Hides and pelts:			
Cattle—			
Number.....	2,887,414	1,864,982	
Pounds.....	151,966,238	107,513,830	
Value.....	\$50,195,637	\$19,235,802	2,408,757
Calf—			
Number.....	752,733	298,429	
Pounds.....	9,711,229	4,007,169	
Value.....	\$5,344,281	\$808,157	135,617,679
Sheep—			
Pounds.....	3,366,234	4,880,057	
Value.....	\$9,885,299	\$3,927,174	\$3,869,003
Hair, hog and cattle:			
Pounds.....	37,898,337	(¹)	(¹)
Value.....	\$2,877,031	(¹)	(¹)
Wool:			
Pounds.....	15,274,599	14,004,038	10,688,105
Value.....	\$9,368,562	\$4,170,684	\$4,523,534
All other products, value.....	\$75,317,210	\$41,495,779	\$47,313,928

¹ Not reported separately.

Printing and publishing (Tables 20 and 21).—Table 20 shows the number and aggregate circulation per issue for the different classes of newspaper and periodical publications in Illinois for 1919, 1914, and 1909.

The total increase in circulation for the five-year period 1914 to 1919 was 1,371,743, or 5.5 per cent. The increase for the daily newspapers was 620,593, or 23.6 per cent, and for the Sunday newspapers, 250,963, or 15.3 per cent. Of the dailies, 118 with a circulation of 1,759,274, or 53.1 per cent, were published in the afternoon, showing an increase of 119,964, or 7.3 per cent, over the circulation reported for 1914. The 50 morning newspapers gained 500,629, or 51 per cent, for the five years.

Table 21 gives the number and circulation of foreign-language publications in 1919, 1914, and 1909, by period of issue, compared with those published in the English language. Publications partly in English and partly in foreign languages are included with the foreign.

During the five-year period 1914 to 1919 the circulation of foreign-language publications in Illinois increased 33,493, or 1.7 per cent. The circulation of these publications constituted 7.6 per cent of the circulation of all publications in 1919 and 7.9 per cent in 1914. The increase in circulation of foreign-language daily and Sunday publications from 1914 to 1919 is notable, being 332,853, or 60.4 per cent.

The foreign languages represented are: Armenian, 1 semiweekly and 1 weekly; Bohemian, 19 publications with a circulation of 146,536—4 dailies, 4 Sunday newspapers, 6 semiweeklies, 1 weekly, 3 monthly publications, and 1 quarterly; Bulgarian, 1 daily and 1 weekly; Croatian, 3 weeklies with a circulation of 14,200; Danish, 5 publications with a circulation of 11,650—4 weeklies and 1 monthly; Dutch, 1 weekly; Finnish, 1 quarterly; Flemish, 1 weekly; French, 1 quarterly; German, 37 publications with a circulation of 259,346—5 dailies, 3 Sunday publications, 19 weeklies, 2 semimonthly, 2 monthly, and 6 quarterly publications; Greek, 2 weeklies; Hungarian, 3 publications with a circulation of 8,200—1 Sunday, 1 weekly, and 1 quarterly; Italian, 5 publications with a circulation of 18,000—1 semiweekly, 3 weeklies, and 1 quarterly; Lithuanian, 5 publications with a circulation of 140,865—3 dailies and 2 monthly publications; Norwegian, 1 weekly; Polish, 8 publications with a circulation of 280,990—4 dailies, 3 weeklies, and 1 quarterly; Rumanian, 1 quarterly; Russian, 1 daily and 1 monthly; Servian, 1 weekly; Slovak, 13 publications with a circulation of 101,827—3 dailies, 1 Sunday, 1 semiweekly, 7 weeklies, and 1 quarterly; Slovenian, 8 publications with a circulation of 35,961—1 daily, 2 semiweeklies, 3 weeklies, 1 monthly, and 1 bimonthly; Spanish, 1 semimonthly and 1 quarterly; Swedish, 20 publications with a circulation of 257,469—12 weeklies, 1 semimonthly, 4 monthly, and 3 quarterly publications; Ukrainian, 1 weekly; Yiddish, 12

publications with a circulation of 247,648—4 dailies, 4 Sunday publications, 3 weeklies, and 1 quarterly. There were 4 publications in Norwegian-Danish, with a circulation of 72,532—1 daily, 1 Sunday, 1 weekly, and 1 semiweekly; 1 monthly in English-Bohemian; 1 semimonthly in English-French; 4 publications in English-German with a circulation of 151,900—2 weeklies and 2 monthlies; 1 semimonthly in English-Persian; 1 monthly in English-Spanish; and 3 weeklies in English-Swedish, with a circulation of 39,150.

TABLE 20.—PRINTING AND PUBLISHING: 1919, 1914, AND 1909.

PERIOD OF ISSUE.	NUMBER OF PUBLICATIONS.			AGGREGATE CIRCULATION PER ISSUE.		
	1919	1914	1909	1919	1914	1909
Total.....	1,523	1,657	1,682	26,473,359	25,101,616	20,823,166
Daily.....	168	184	194	3,241,254	2,620,661	2,323,913
Sunday.....	41	48	38	1,886,084	1,635,121	1,016,506
Semiweekly.....	33	36	41	127,849	91,869	113,915
Triweekly.....	3	5	7	6,747	12,500	24,250
Weekly.....	806	967	1,018	5,551,012	6,216,667	5,008,590
Semimonthly.....	38	31	29	217,155	356,677	240,185
Monthly.....	305	312	289	11,270,045	10,242,371	9,492,099
Quarterly.....	63	54	50	4,150,366	3,828,606	1,967,558
All other classes ¹	6	20	16	13,847	97,144	30,150

¹ Includes in 1919, 6 bimonthlies; in 1914, 11 bimonthlies and 9 semiannuals; and in 1909, 9 bimonthlies and 7 classed as "All other."

TABLE 21.—PRINTING AND PUBLISHING—CIRCULATION, ENGLISH AND FOREIGN: 1919, 1914, AND 1909.

PERIOD OF ISSUE.	Cen- sus year.	TOTAL.		IN ENGLISH.		IN FOREIGN LANGUAGES.	
		Num- ber.	Aggregate circulation per issue.	Num- ber.	Aggregate circulation per issue.	Num- ber.	Aggregate circulation per issue.
Total.....	1919	1,523	26,473,359	1,352	24,459,049	171	2,014,310
	1914	1,657	25,101,616	1,476	23,120,799	181	1,980,817
	1909	1,682	20,823,166	1,509	19,365,799	173	1,457,367
Daily and Sunday..	1919	209	5,127,338	168	4,243,267	41	884,071
	1914	232	4,255,782	189	3,704,564	43	551,218
	1909	232	3,940,419	201	3,494,495	31	475,924
Semiweekly and tri- weekly.	1919	36	134,596	24	45,737	12	88,859
	1914	41	104,369	30	52,772	11	51,597
	1909	48	138,165	34	61,965	14	76,200
Weekly.....	1919	806	5,551,012	792	4,048,514	74	602,498
	1914	967	6,216,667	874	5,235,530	93	981,137
	1909	1,018	5,008,590	923	4,448,973	95	559,617
Monthly.....	1919	305	11,270,045	287	10,990,086	18	288,959
	1914	312	10,242,371	294	9,956,045	18	285,426
	1909	289	9,492,099	267	9,239,890	22	252,209
Quarterly.....	1919	63	4,150,366	44	4,051,132	19	99,234
	1914	54	3,828,606	46	3,800,056	8	28,550
	1909	50	1,967,558	44	1,885,286	6	82,292
All other classes ¹ ...	1919	44	231,002	37	180,313	7	50,689
	1914	51	453,821	43	370,932	8	82,889
	1909	45	276,335	40	205,210	5	11,125

¹ Includes in 1919, 32 semi-monthly and 5 bimonthly publications in English, and 6 semi-monthlies and 1 bimonthly publication in foreign languages; in 1914, 24 semi-monthly, 11 bimonthly, and 6 semiannual publications in English, and 7 semi-monthly and 1 semiannual publication in foreign languages; and in 1909, 24 semi-monthly, 9 bimonthly, and 7 "All other" publications in English, and 5 semi-monthly publications in foreign languages.

Iron and steel, blast furnaces (Table 22).—This table shows the production statistics for the pig-iron industry for 1919, 1914, and 1909.

The bulk of the pig-iron product of the state was used in the steel furnaces, 76.6 per cent being delivered from the blast furnaces in a molten condition.

Illinois ranked third in the industry in value of products in 1919, being exceeded only by Pennsylvania and Ohio.

TABLE 22.—BLAST FURNACES: 1919, 1914, AND 1909.

	1919	1914	1909
Products, total value.....	\$64,762,411	\$25,861,528	\$38,299,897
Pig iron:			
Tons (2,240 lbs.).....	2,528,888	1,843,333	2,468,772
Value.....	\$61,734,928	\$25,360,306	\$38,269,897
Unit value, ton.....	\$24.40	\$13.75	\$15.50
All other products, value.....	\$3,027,483	\$501,222	.....

Steel works and rolling mills (Table 23).—This table shows the quantity and cost of the principal materials and the product statistics for the steel works and rolling mills for 1919, 1914, and 1909.

The state ranked fourth in the industry in value of products in 1919, being exceeded by Pennsylvania, Ohio, and Indiana. The leading rolled products in order of tonnage were (1) plates and sheets; (2) rods; (3) bars; (4) structural shapes; (5) rail joints and fastenings; and (6) rails.

TABLE 23.—STEEL WORKS AND ROLLING MILLS: 1919, 1914, AND 1909.

	1919	1914	1909
MATERIALS.			
Total cost.....	\$100,319,478	\$39,038,064	\$56,244,463
Pig iron and ferroalloys:			
Tons (2,240 lbs.).....	2,318,920	1,637,922	2,433,805
Cost.....	\$60,790,941	\$24,026,163	\$30,080,448
Scrap, purchased:			
Tons.....	511,160	290,888	278,874
Cost.....	\$10,387,892	\$2,986,465	\$3,990,891
Steel, crude and semifinished, muck and scrap bar and rails for rerolling, purchased:			
Tons.....	205,467	294,060	280,727
Cost.....	\$7,146,889	\$5,577,931	\$6,357,611
All other materials, including fuel and rent of power, cost.....	\$21,693,756	\$7,347,505	\$9,203,513
PRODUCTS.			
Total value.....	\$173,344,650	\$64,995,121	\$80,608,137
Rolled, forged, and other classified products:			
Tons (2,240 lbs.).....	2,610,461	1,901,330	2,644,191
Value.....	\$157,026,544	\$58,695,178	\$78,841,720
All other products, including value added to rolling-mill products by further manufacture.....	\$16,318,106	\$6,299,943	\$7,766,417

Agricultural implements (Table 24).—This table shows the value of the principal groups of agricultural implements manufactured in Illinois during the census years 1919, 1914, and 1909.

Illinois ranked first in 1919, 1914, and 1909 in the manufacture of agricultural implements. During the five-year period 1914-1919, there was an increase of \$62,947,053, or 96.3 per cent, in the total value of products for the industry. Of the four main groups, harvesting implements, the most important by value of products at each of the three censuses, shows an increase during the five-year period mentioned of \$8,628,280, or 31.7 per cent. Plows and cultivators increased \$12,169,306, or 68.9 per cent; seed separators, \$3,419,950, or 156.6 per cent; and planters and seeders, \$1,698,292, or 46.5 per cent.

The total value of products for each census includes the value of products incident to the manufacture of agricultural implements, which are relatively of much importance. In 1919 such products amounted to \$23,494,024, of which \$2,653,599 represented the value of wagons, automobiles, and engines, \$10,374,867 the value of tractors, and \$10,465,558 the value of other products, such as manure spreaders, ensilage cutters, feed grinders, etc.

TABLE 24.—AGRICULTURAL IMPLEMENTS: 1919, 1914, AND 1909.

	1919	1914	1909
Products, total value.....	\$128,284,710	\$68,387,663	\$57,268,325
Planters and seeders.....	5,352,515	3,654,223	4,142,234
Plows and cultivators.....	20,822,582	17,653,276	15,961,417
Harvesting implements.....	35,805,793	27,177,513	.....
Hayrakes and tedders.....	2,152,549	1,862,753	.....
Mowers and reapers.....	32,090,910	23,402,046	22,417,070
Other.....	1,592,334	1,862,714	.....
Seed separators.....	5,003,590	.....	.....
Thrashers.....	2,415,192	.....	.....
Other.....	3,188,398	2,188,640	1,847,026
All other agricultural implements, including parts.....	18,639,044	7,560,021	.....
All other products.....	23,494,024	6,821,321	12,528,685
Amount received for repair work.....	9,567,168	287,009	371,893

Electrical machinery, apparatus, and supplies (Table 25).—This table gives in detail the value of the several classes of electrical machinery, apparatus, and supplies manufactured in 1919.

Among the states, Illinois ranked fourth in 1919 in the manufacture of electrical machinery, apparatus, and supplies. The state ranked first in the manufacture of telephone apparatus, with 79.7 per cent of the total value of such products for the United States.

Of the various products shown in Table 25, telephone apparatus was the most important, representing 30.8 per cent of the total value of products of the industry in the state. Insulated wire was second in importance among those for which separate values are given, with 15.6 per cent of the total.

TABLE 25.—ELECTRICAL MACHINERY, APPARATUS, AND SUPPLIES: 1919.

	1919
Products, total value ¹	\$119,528,022
Telephone apparatus.....	36,809,805
Insulated wire and cables.....	18,660,109
Household and industrial apparatus and devices.....	7,004,879
Batteries.....	4,585,712
Generating apparatus and parts.....	3,945,737
Therapeutic apparatus and X-ray tubes.....	2,988,904
Motors.....	2,180,959
Incandescent lamps.....	2,101,349
Magnetolignition apparatus.....	1,723,980
Telegraph apparatus.....	1,359,736
Transformers and feeder potential regulators.....	1,040,293
Searchlights, projectors, and focusing lamps.....	586,215
Switchboards, panel boards, and cut-out cabinets for light and power.....	444,605
Carbons.....	267,210
All other electrical machinery, apparatus, and supplies ²	27,131,011
All other products.....	5,000,994
Amount received for custom work and repairing.....	2,520,554

¹ In addition, electrical machinery, apparatus, and supplies to the value of \$3,275,197 were reported by establishments engaged primarily in other industries.

² In addition to products not specially provided for, includes several classes of products, the value of which can not be shown separately without disclosing individual operations. Among these are fuses, measuring instruments, pole-line hardware, electric locomotives, conduits, sockets, clocks, etc.

Flour-mill and gristmill products (Table 26).—This table shows the kind, quantity, and value of the flour-mill and gristmill products for 1919, 1914, and 1909.

Wheat flour was the product of chief value in 1919, as it was in 1914 and 1909, forming 66.7 per cent, 64.5 per cent, and 66.5 per cent, respectively, of the total value of all products of the industry in the state. The total value of products for the industry increased \$67,069,691, or 135.5 per cent, during this five-year period. The value of wheat flour increased \$45,845,640, or 143.7 per cent. The increase in the quantity of wheat flour, however, was much smaller, being 617,935 barrels, or 9.3 per cent. It is noticeable throughout the table that although large increases predominate as a rule in values in 1919 compared with 1914, due to the increased prices of commodities in 1919, the increases in quantity are small, and in a number of instances decided decreases are shown.

TABLE 26.—FLOUR-MILL AND GRISTMILL PRODUCTS (MERCHANT MILLS): 1919, 1914, AND 1909.

	1919	1914	1909
Total value.....	\$116,562,915	\$40,493,224	\$51,110,681
Wheat flour:			
Barrels.....	7,261,918	6,643,983	6,386,547
Value.....	\$77,749,717	\$31,904,077	\$33,962,494
Rye flour:			
Barrels.....	137,712	146,432	116,925
Value.....	\$1,109,966	\$635,985	\$539,732
Buckwheat flour:			
Pounds.....	850,570	736,805	1,802,689
Value.....	\$50,103	\$24,237	\$54,842
Barley meal:			
Pounds.....	360,000	.....	110,400
Value.....	\$14,754	.....	\$1,560
Corn meal and corn flour:			
Barrels.....	552,385	600,515	738,804
Value.....	\$4,045,507	\$1,942,702	\$2,168,824
Hominy and grits:			
Pounds.....	101,199,037	154,209,222	221,177,853
Value.....	\$3,306,491	\$2,293,856	\$3,224,171
Bran and middlings:			
Tons.....	284,744	270,754	.....
Value.....	\$12,857,317	\$6,184,864	475,852
Feed and offal:			
Tons.....	270,762	242,201	\$10,766,280
Value.....	\$16,650,649	\$5,993,094	.....
Oatmeal:			
Pounds.....	17,143,275	.....	.....
Value.....	\$603,042	.....	.....
Breakfast foods:			
Pounds.....	1,601,566	.....	.....
Value.....	\$108,496	.....	.....
All other cereal products, value.....	\$17,730	\$157,097	\$268,946
All other products, value.....	\$40,143	\$357,812	\$93,832

Petroleum, refining (Table 27).—This table presents the statistics for the petroleum-refining industry in Illinois in 1919, represented by 13 establishments, with products valued at \$64,548,642, as compared with 9 establishments and products valued at \$16,892,727 in 1914, an increase in value of products of 282.1 per cent. The state ranked ninth in this industry in 1919.

The total production of refined oils and greases, the same including gasoline and the other lighter products, fuel oils, illuminating oils, lubricating oils and greases, and asphaltic road oils, was 12,103,696 barrels of 50 gallons, valued at \$61,790,464, of which the fuel oils constituted in quantity 44.9 per cent, gasoline and the lighter oils 38 per cent, illuminating oils 11.7 per cent, and lubricating oils and greases and asphaltic road oils 5.4 per cent.

TABLE 27.—PETROLEUM, REFINING: 1919.

	1919
MATERIALS.	
Total cost.....	\$54,063,358
Crude petroleum:	
Barrels (42 gallons).....	12,627,323
Cost.....	\$34,776,595
Distillates purchased and rerun:	
Barrels.....	2,055,211
Cost.....	\$6,230,461
Casing-head gasoline purchased:	
Barrels.....	969,068
Cost.....	\$7,711,821
Chemicals and filtering material, cost.....	\$400,212
Containers and materials therefor, cost.....	\$627,283
All other materials, cost.....	\$4,300,986
PRODUCTS.	
Total value.....	\$64,548,042
Naphthas and lighter products:	
Gasoline—	
Gallons.....	227,116,664
Value.....	\$39,127,356
Naphtha, benzine, etc.—	
Gallons.....	2,726,331
Value.....	\$413,486
Illuminating oils:	
Gallons.....	71,071,215
Value.....	\$6,338,908
Fuel oils:	
Distillates—	
Gallons.....	10,677,977
Value.....	\$489,958
Gas oils—	
Gallons.....	47,747,510
Value.....	\$2,751,273
Residual fuel oils—	
Gallons.....	213,396,619
Value.....	\$9,815,514
Lubricating oils and greases:	
Gallons.....	23,409,468
Value.....	\$2,440,325
Liquid asphaltic road oils:	
Gallons.....	9,039,020
Value.....	\$404,044
Paraffin wax:	
Gallons.....	2,863,707
Value.....	\$1,214,929
Other refinery products, value.....	\$1,208,778
All other products, value.....	\$304,471
EQUIPMENT (CAPACITY, GALLONS).	
Still:	
Steam—	
Number.....	40
Capacity.....	1,268,000
Fire—	
Number.....	147
Capacity.....	4,125,000
Pressure—	
Number.....	120
Capacity.....	1,365,000
Storage tanks for:	
Crude petroleum—	
Number.....	208
Capacity.....	118,436,000
Refined petroleum—	
Number.....	273
Capacity.....	54,016,000
Fuel oils—	
Number.....	101
Capacity.....	40,768,000
Other—	
Number.....	400
Capacity.....	20,673,000

Leather, tanned, curried, and finished (Table 28).—This table gives for 1919, 1914, and 1909 the quantity and cost of the different kinds of materials used, and the quantity and value of the principal products reported for this industry.

There was an increase in the total cost of materials used in 1919, as compared with 1914, of \$28,734,801, or 206.5 per cent. During this five-year period the number of cattle hides treated increased 1,131,568, or 126.8 per cent, and their cost \$16,982,921, or 293.5 per cent. The use of calf and kip skins has steadily

declined; there were 1,872,298, or 62.2 per cent, less treated in 1919 than in 1909, while, on the other hand, their cost has materially increased. The number of sheep and lamb skins treated, also shows a falling off. The loss was slight compared with 1914, but a third less than was reported in 1909. The cost of all other raw stock, comprising horse and buffalo hides, goat, kid, colt, cabretta, pig, kangaroo, and deer skins etc., shows decided increases from census to census.

There was an increase in the total value of products in 1919, as compared with 1914, of \$42,814,403, or 244.5 per cent. Cattle side upper, the most important leather produced in the state in 1919, constituted 50.2 per cent of the total value of products and, compared with 1914, shows an increase in quantity of 2,451,387 sides, or 204.9 per cent, and \$25,057,984, or 480.3 per cent, in value. There was a marked falling off in the number of calf and kip skins tanned and finished, but an increase of 207,977 in the number of sheep and lamb skins. Notwithstanding the decrease in quantity of the former product, however, the value of each of these two classes of products shows conspicuous increases for the five-year period, 1914-1919. "All other leather" includes patent, glove, horse, harness, finished splits, and case, bag, and strap leather, etc.

TABLE 28.—LEATHER, TANNED, CURRIED, AND FINISHED: 1919, 1914, AND 1909.

	1919	1914	1909
MATERIALS.			
Total cost.....	\$42,652,233	\$13,917,432	\$12,130,609
Cattle hides:			
Number.....	2,023,824	892,256	663,928
Cost.....	\$22,769,561	\$5,786,640	\$3,859,429
Calf and kip skins:			
Number.....	1,136,318	1,885,276	3,008,016
Cost.....	\$5,959,289	\$4,399,144	\$5,532,850
Sheep and lamb skins:			
Number.....	1,005,368	1,069,914	1,562,623
Cost.....	\$1,365,076	\$774,399	\$922,466
All other raw stock, cost.....	\$6,129,193	\$1,221,598	\$436,138
Fuel and rent of power, cost.....	\$512,322	\$160,482	\$151,707
All other materials, cost.....	\$5,910,192	\$1,575,169	\$1,228,019
PRODUCTS.			
Total value.....	\$60,323,659	\$17,500,256	\$14,911,782
Leather:			
Cattle side upper (other than patent)—			
Sides.....	3,647,664	1,196,277	932,436
Value.....	\$30,274,697	\$5,210,713	\$3,658,427
Calf and kip skins—			
Number.....	896,849	1,868,815	2,926,074
Value.....	\$6,756,262	\$5,953,430	\$7,071,221
Sheep and lamb skins—			
Number.....	891,955	683,978	1,142,669
Value.....	\$1,448,061	\$437,609	\$716,605
All other, value.....	\$18,341,408	\$5,123,801	\$3,487,921
All other products, value.....	\$2,843,300	\$776,404	\$575,600
Work on materials for others, value.....	\$659,931	\$1,299	\$2,008

Butter, cheese, and condensed milk (Table 29).—This table presents the quantities and values of the principal products of the industry for 1919, 1914, and 1909. Illinois ranked sixth in 1919 among the states in the value of butter, cheese, and condensed-milk factory products combined, and third in the manufacture of

condensed and evaporated milk, being exceeded in the manufacture of this latter product by New York and Wisconsin, in the order named. At each of the three censuses, condensed and evaporated milk was the product of chief value, forming 47.5 per cent of the total value of all products for the industry in 1919, as compared with 51.7 per cent in 1914, and 47.4 per cent in 1909. Butter formed 42.8 per cent of the total in 1919, 36.5 per cent in 1914, and 39.8 per cent in 1909.

During the five-year period 1914 to 1919, there was an increase of \$36,506,051, or 167.5 per cent, in the total value of products for the industry in the state. Condensed milk, although showing an increase of only 6.2 per cent in quantity during the five-year period, increased 145.8 per cent in value. Similarly, butter increased 213.1 per cent in value and 62.9 per cent in quantity, and cheese, although increasing 88.7 per cent in value, decreased 23.9 per cent in quantity.

TABLE 29.—BUTTER, CHEESE, AND CONDENSED MILK: 1919, 1914, AND 1909.

	1919	1914	1909
Products, total value.....	\$58,298,271	\$21,792,220	\$17,798,278
Butter:			
Pounds.....	44,527,933	27,332,203	24,570,976
Value.....	\$24,928,641	\$7,962,297	\$7,088,414
Packed solid—			
Pounds.....	19,906,494	15,404,541	14,767,503
Value.....	\$10,937,917	\$4,509,095	\$4,215,191
Prints or rolls—			
Pounds.....	24,621,439	11,927,752	9,803,473
Value.....	\$13,990,724	\$3,453,202	\$2,873,223
Cream sold:			
Pounds.....	4,326,626	11,966,350	11,496,133
Value.....	\$915,507	\$1,073,600	\$1,274,796
Cheese:			
Pounds.....	4,861,054	6,377,947	4,799,235
Value.....	\$1,344,910	\$712,842	\$520,486
Full cream—			
Pounds.....	2,464,849	4,090,100	2,919,897
Value.....	\$939,091	\$590,024	\$398,397
Other kinds ² —			
Pounds.....	2,396,205	2,310,432	1,879,338
Value.....	\$405,819	\$122,818	\$122,089
Condensed and evaporated milk:			
Pounds.....	177,792,214	167,425,094	114,500,748
Value.....	\$27,667,488	\$11,256,447	\$8,437,627
Sweetened—			
Pounds.....	70,370,083	58,857,984	48,240,252
Value.....	\$13,562,542	\$4,937,077	\$4,468,085
Unsweetened—			
Pounds.....	7,615,164	51,823,055	
Value.....	\$1,093,047	\$3,052,538	
Evaporated—			
Pounds.....	99,807,017	56,744,055	66,260,496
Value.....	\$13,011,899	\$3,266,832	\$3,969,542
All other butter, cheese, and condensed-milk factory products, value.....	\$2,186,430	\$690,162	\$398,754
All other products, value.....	\$1,256,286	\$96,782	\$76,201

¹ In addition, in 1919, butter valued at \$204,292 was manufactured in establishments engaged primarily in the manufacture of products other than those covered by the industry designation.

² Includes "Part cream," "Skimmed," and "Other kinds" of cheese.

Paints and varnishes (Table 30).—This table gives details as to the products of the paint and varnish industries for 1919 and 1914. The statistics represent 83 establishments in 1919, 50 primarily engaged in the manufacture of paints and 33 in the manufacture of varnishes, as compared with 72 in 1914, 40 manufacturing paints and 32 varnishes.

From 1914 to 1919 the total value of products of the industry as a whole shows an increase of \$30,298,-

852, or 123.7 per cent. Of this increase, \$24,018,925 was for paints and \$6,279,927 for varnishes, increases of 126.1 per cent and 115.3 per cent, respectively. The proportionate value of the two products shows but slight variation for the two censuses.

TABLE 30.—PAINTS AND VARNISHES: 1919 AND 1914.

	1919	1914
Products, total value.....	\$54,787,301	\$24,488,449
The classified industries:		
Paints.....	\$43,061,694	\$19,042,769
Varnishes.....	\$11,725,607	\$5,445,680
Colors (pigments):		
White lead, dry—		
For sale—		
Pounds.....	18,400,908	18,783,007
Value.....	\$1,597,557	\$950,147
Made and consumed, pounds.....	49,646,886	(?)
Other dry colors—		
Pounds.....	38,141,236	5,564,451
Value.....	\$2,577,340	\$616,532
Paints.....	\$20,738,866	\$14,239,194
In paste form, ground in oil—		
White lead—		
Pounds.....	50,004,000	73,019,593
Value.....	\$5,977,095	\$5,000,591
All other—		
Pounds.....	21,360,047	20,271,856
Value.....	\$2,506,529	\$1,419,667
In oil, already mixed for use—		
Gallons.....	10,780,810	8,467,040
Value.....	\$21,185,242	\$7,818,936
Varnishes and japans:		
Oleoresinous varnishes—		
Gallons.....	4,594,475	2,762,458
Value.....	\$5,134,512	\$2,775,662
Spirit varnishes, not turpentine—		
Gallons.....	226,408	608,528
Value.....	\$614,215	\$688,934
Damar and similar turpentine and benzine varnishes—		
Gallons.....	1,232,830	680,592
Value.....	\$2,374,486	\$738,051
Drying japans and dryers—		
Gallons.....	822,984	759,252
Value.....	\$678,713	\$367,033
Baking japans and lacquers—		
Gallons.....	608,086	201,410
Value.....	\$722,503	\$156,227
Water paints and kalsomine:		
Dry or in paste—		
Pounds.....	12,420,067	11,304,884
Value.....	\$835,785	\$409,099
Fillers:		
Liquid—		
Gallons.....	569,392	
Value.....	\$624,837	
In paste—		
Pounds.....	1,620,610	
Value.....	\$151,336	\$3,597,600
Putty—		
Pounds.....	8,457,881	
Value.....	\$319,880	
All other products, value.....	\$9,417,242	

¹ In addition, products to the value of \$6,062,947, chiefly lead and zinc oxides and paints, were produced in 1919 as subsidiary products by establishments engaged primarily in the manufacture of other commodities.

² Not reported.

Engines, steam, gas, and water (Table 31).—This table shows the number, horsepower capacity, and value of the various types of engines manufactured in the state during the years 1919 and 1914.

A remarkable development is shown in the industry during the period 1914 to 1919, a condition largely attributable to the results of the World War. The total value of all products increased \$50,841,898, or 797.6 per cent. The number of engines built increased by 46,859, or 126.4 per cent, and the horsepower capacity increased by 1,151,728, or 421.2 per cent.

TABLE 31.—ENGINES, STEAM, GAS, AND WATER: 1919 AND 1914.

	Cen- sus year.	NUMBER BY INDICATED HORSEPOWER CAPACITY.					Indi- cated horse- power capac- ity.	Value.
		Un- der 10.	10 but un- der 50.	50 but un- der 100.	100 but un- der 500.	500 and over.		
Total.....	1919	29,160	53,414	969	358	16	1,425,145	\$57,216,364
	1914	30,404	6,202	349	104	8	278,417	6,374,466
The engine industry...	1919	21,298	45,445	845	307	16	1,165,365	45,741,267
	1914	25,157	2,220	276	76	4	145,670	3,948,730
Subsidiary products from other industries.	1919	7,871	7,969	124	51	—	259,780	11,475,007
	1914	5,247	3,982	73	28	—	127,847	2,425,736
Steam engines.....	1919	372	298	6	40	16	34,266	970,793
	1914	385	91	72	99	8	35,500	328,935
Internal-combustion engines.	1919	26,334	22,174	35	3	—	483,255	8,946,770
	1914	29,969	4,945	116	4	—	204,487	3,030,634
Automobile.....	1919	—	21,130	—	—	—	396,201	6,393,288
	1914	—	3,004	—	—	—	88,492	661,203
Marine.....	1919	108	69	7	—	—	2,427	61,902
	1914	506	125	19	4	—	6,966	153,331
Stationary.....	1919	24,445	975	28	3	—	81,065	2,383,100
	1914	27,188	1,816	97	—	—	110,029	2,216,100
Other.....	1919	1,781	—	—	—	—	3,562	108,390
	1914	—	—	—	—	—	(¹)	(¹)
Traction engines, not locomotives.	1919	2,463	30,942	928	315	—	907,624	34,554,193
	1914	50	1,166	161	1	—	33,430	2,048,826
Other engines and parts.	1919	—	—	—	—	—	—	2,124,699
	1914	—	—	—	—	—	—	200,678
Other foundry and machine- shop products.	1919	—	—	—	—	—	—	5,200,007
	1914	—	—	—	—	—	—	128,571
All other products.	1919	—	—	—	—	—	—	5,359,902
	1914	—	—	—	—	—	—	546,822

¹ Included in "Stationary."² Includes electric locomotives built by firms engaged primarily in the manufacture of traction engines. Figures can not be shown separately without disclosing individual operations.

Druggists' preparations, patent medicines and compounds, and perfumery and cosmetics (Table 32).—This table gives the products statistics for these industries in 1919. The industries constituting the group represent 314 establishments—druggists' preparations 31, patent medicines and compounds 208, and perfumery and cosmetics 75—with products aggregating in value \$39,059,337, this amount being exclusive of druggists' preparations, patent medicines and compounds, and perfumery and cosmetics, reported by establishments engaged primarily in the manufacture of other commodities.

TABLE 32.—DRUGGISTS' PREPARATIONS, PATENT MEDICINES AND COMPOUNDS, AND PERFUMERY AND COSMETICS: 1919.

	1919
Products, total value.....	\$41,714,235
The classified industries (all products):	
Druggists' preparations.....	4,838,548
Patent medicines and compounds.....	25,395,228
Perfumery and cosmetics.....	8,775,661
Subsidiary products from other industries.....	2,654,598
Classified products.	
Biological products (serums, vaccines, toxins, etc.) and synthetic preparations.....	464,275
Patent and proprietary medicines.....	15,646,594
Patent and proprietary compounds.....	7,859,460
Tinctures, fluid extracts, medicinal sirups, and other liquid preparations (not patent and proprietary).....	1,924,771
Pills, tablets, powders, etc. (not patent and proprietary).....	4,461,279
Perfumes, cosmetics, and toilet preparations.....	10,096,574
All other products.....	1,202,282

Comparative statistics for 1914 are, for the group, 363 establishments with products valued at \$15,031,507, distributed as follows: Druggists' preparations, 38 establishments, \$2,000,494; patent medicines and compounds, 265 establishments, \$11,470,734; and perfumery and cosmetics, 60 establishments, \$1,560,279. The figures show an increase of 259.8 per cent in value of products for the group, 144.4 per cent for druggists' preparations, 121.4 per cent for patent medicines and compounds, and 462.4 per cent for perfumery and cosmetics.

Soap (Table 33).—This table shows the quantities and values of the principal materials and the products of the soap industry in the state in 1919, 1914, and 1909. The table shows a large production of soap by establishments engaged primarily in the manufacture of other products, for which the statistics of materials used are not available.

TABLE 33.—SOAP: 1919, 1914, AND 1909.

	1919	1914	1909
MATERIALS.			
Total cost ¹	\$10,483,008	\$15,252,893	\$13,948,160
Animal fats, tallow, grease, etc:			
Pounds.....	63,456,414	77,750,488	54,546,522
Cost.....	\$7,578,897	\$4,736,142	\$3,226,011
Coconut and palm-kernel oil:			
Gallons.....	2,981,026	2,550,332	2,174,700
Cost.....	\$3,508,587	\$1,903,050	\$1,084,013
Cottonseed oil:			
Gallons.....	512,623	1,027,981	1,565,800
Cost.....	\$710,360	\$917,258	\$576,024
Other vegetable oils:			
Gallons.....	744,738	(²)	(²)
Cost.....	\$865,188	(²)	(²)
Resin:			
Pounds.....	11,101,057	16,272,793	18,272,898
Cost.....	\$684,433	\$410,607	\$423,829
Caustic soda:			
Tons (2,000 lbs.).....	0,082	0,719	8,022
Cost.....	\$487,439	\$304,430	\$336,312
Soda ash:			
Tons (2,000 lbs.).....	9,205	14,984	15,640
Cost.....	\$265,733	\$216,954	\$288,047
All other materials, including fuel and rent of power, cost.....	\$5,374,271	\$6,755,353	\$8,014,124
PRODUCTS.			
Total value.....	\$30,458,378	\$24,019,259	\$20,212,509
The soap industry.....	\$25,733,832	\$21,420,035	\$20,180,799
Subsidiary soap products from other industries.....	\$13,724,546	\$3,499,224	\$31,710
Hard soaps:			
Quantity, pounds.....	406,661,000	337,886,000	254,017,000
Tallow soap.....	96,687,000	134,026,000	158,717,000
Plain soap.....	13,384,000	2,763,000	2,070,000
Foots soap.....	5,281,000	6,934,000	4,060,000
Toilet soaps.....	50,149,000	46,514,000	32,888,000
Dye soaps.....	887,000	(³)	(³)
Powdered soaps (sold as such) ⁴	121,798,000	71,702,000	56,009,000
Soap chips.....	47,756,000	27,972,000	—
Other hard soaps.....	70,719,000	47,975,000	283,000
Value.....	\$34,892,993	\$17,904,726	\$13,066,420
Soft soap:			
Pounds.....	7,498,000	8,329,000	10,292,000
Value.....	\$538,516	\$205,759	\$216,031
Liquid soap:			
Pounds.....	1,289,000	(³)	(³)
Value.....	\$145,008	(³)	(³)
Special soap articles, value.....	\$229,931	\$111,782	\$36,002
Glycerin:			
Crude, sold as such—			
Pounds.....	1,067,916	1,197,850	—
Value.....	\$189,680	\$217,737	6,256,607
Refined—			
Pounds.....	5,885,827	5,242,896	\$870,871
Value.....	\$1,205,612	\$1,124,704	—
All other products, value.....	\$2,190,738	\$5,354,551	\$6,017,185

¹ Does not include materials consumed in soap manufacture by establishments making soap as a subsidiary product.² Included with "All other materials."³ Not reported separately.⁴ Includes 12,451,900 pounds reported as "scouring powders and cleansers," in 1919, valued at \$540,898.

For the census period 1909 to 1914, the increase in quantity production was 31 per cent, and in value 36.3 per cent, while the production in 1919 as compared with 1914 shows an increase of 20 per cent in quantity and 96.4 per cent in value. This refers to hard, soft, and liquid soaps.

Boots and shoes (Tables 34 and 35).—Table 34 gives the number of pairs and value of boots, shoes, slippers, etc., manufactured in the state of Illinois in 1919, 1914, and 1909.

The number of pairs of boots and shoes reported in 1919 for women, misses, and children in the state shows a large increase over the number reported in 1914 and 1909. Other kinds, including slippers, etc., show a decrease. The gain in the state for all kinds of footwear in 1919 was 2,345,850 pairs, or 28.3 per cent, over 1914 and about the same percentage of gain over 1909. Aggregate value of products increased by \$22,510,757, or 133.3 per cent, in 1919, compared with 1914, and by \$24,290,894, or 160.7 per cent, compared with 1909. Values of the different classes of footwear were not reported in 1909.

TABLE 34.—BOOTS AND SHOES, BY CLASSES: 1919, 1914, AND 1909.

CLASS.	NUMBER OF PAIRS AND VALUE.		
	1919	1914	1909
Aggregate value.....	\$39,402,383	\$16,891,620	\$15,111,489
Boots and shoes:			
Total number of pairs.....	10,145,473	7,370,553	6,893,731
Total value.....	\$38,242,922	\$16,123,756	
Men's—			
Number of pairs.....	3,576,329	3,934,629	4,018,016
Value.....	\$19,655,921	\$10,725,954	
Boys' and youths'—			
Number of pairs.....	904,153	1,058,239	1,270,520
Value.....	\$2,780,898	\$1,602,375	
Women's—			
Number of pairs.....	3,013,743	1,025,896	1,034,470
Value.....	\$10,385,995	\$2,844,397	
Misses' and children's—			
Number of pairs.....	2,661,348	751,819	570,725
Value.....	\$5,420,108	\$951,030	
Slippers:			
Total number of pairs.....	23,880	246,835	274,697
Total value.....	\$37,450	\$317,566	
Men's, boys', and youths'—			
Number of pairs.....	13,380	49,140	112,900
Value.....	\$21,475	\$49,782	
Women's, misses', and children's—			
Number of pairs.....	10,500	197,695	161,797
Value.....	\$15,975	\$267,834	
Infants' shoes and slippers:			
Number of pairs.....	330,936	545,169	1,002,277
Value.....	\$152,649	\$252,485	
All other footwear:			
Number of pairs.....	138,170	130,102	125,100
Value.....	\$289,779	\$31,665	
All other products, including amount received for work done for others, value....	\$679,583	\$166,154	

¹ Total value only, reported in 1909.

Table 35 gives the number of pairs of boots and shoes, and all other footwear, classified according to method of manufacture.

Over 90 per cent of the boots and shoes manufactured in the state of Illinois were of the welted and McKay types. About the same proportions of each type were produced, there being a few more welted reported than McKay. Turned and wood or metal fastened types are combined, to avoid disclosure of the operations of individual establishments. They formed but 8 per cent of the total footwear produced in the state in 1919.

TABLE 35.—BOOTS AND SHOES—NUMBER OF PAIRS, BY METHOD OF MANUFACTURE: 1919 AND 1914.

CLASS.	Census year.	Total.	Welted.	McKay.	Turned and wood or metal fastened.
Boots and shoes.....	1919	10,145,573	4,893,718	4,439,710	812,145
	1914	7,370,553	3,715,554	3,454,942	200,057
Men's.....	1919	3,576,329	3,297,320	1,279,009	.....
	1914	3,934,629	3,212,273	540,674	181,682
Boys' and youths'.....	1919	904,153	359,686	1,547,567	.....
	1914	1,058,239	15,710	1,042,529	.....
Women's, misses', and children's.	1919	5,665,091	1,239,812	3,613,134	812,145
	1914	2,377,685	487,671	1,871,739	18,375
All other footwear.....	1919	493,036	.....	2,240,770	252,266
	1914	922,106	277,738	325,531	318,837

¹ Includes "Turned and wood or metal fastened." ² Includes "Welted."

Musical instruments, pianos and organs and materials (Table 36).—This table shows for 1919, 1914, and 1909 the number and value of the different kinds of pianos and organs manufactured, and the value of the organ and piano materials made by establishments not engaged primarily in the production of complete instruments.

TABLE 36.—MUSICAL INSTRUMENTS, PIANOS AND ORGANS AND MATERIALS: 1919, 1914, AND 1909.

	1919	1914	1909
Products, total value.....	\$36,255,055	\$19,705,601	\$19,176,328
Pianos:			
Number.....	93,683	93,626	108,283
Value.....	\$25,034,422	\$14,502,320	\$14,783,394
Upright—			
Without player—			
Number.....	36,515	74,023	103,433
Value.....	\$7,415,565	\$9,538,328	\$13,226,811
With player 1—			
Number.....	54,241	18,870	4,470
Value.....	\$16,325,968	\$4,688,789	\$1,410,660
Grand—			
Baby—			
Without player 2—			
Number.....	1,497	3,733	3,380
Value.....	\$804,186	\$285,703	\$136,923
Parlor—			
Without player 4—			
Number.....	474	.....	.....
Value.....	\$215,680	.....	.....
Concert 6—			
Without player—			
Number.....	956	.....	.....
Value.....	\$273,023	.....	.....
Organs:			
Number.....	8,562	13,095	28,798
Value.....	\$1,493,598	\$1,448,420	\$1,281,415
Pipe—			
Number.....	166	589	154
Value.....	\$632,792	\$908,386	\$307,632
Reed—			
Number.....	7,705	12,506	28,644
Value.....	\$434,760	\$540,043	\$973,783
Orchestrions—			
Number.....	631	(⁶)	(⁶)
Value.....	\$426,046	(⁶)	(⁶)
Player attachments and actions, value.....	\$255,267	(⁶)	(⁶)
Parts, materials, and supplies, value.....	\$4,760,733	\$2,909,667	\$2,820,575
All other products, value.....	\$4,711,035	\$784,685	\$290,944

¹ Includes "player reproducing" in 1919.

² Includes "baby player" and "baby reproducing" in 1919.

³ Includes "parlor" and "concert grand."

⁴ Includes "parlor player" and "parlor reproducing" in 1919.

⁵ Includes "automatic" and "electric" in 1919.

⁶ Not shown separately in 1914 and 1909.

From 1914 to 1919 the industry as a whole shows an increase in value of products of \$16,549,454, or 84 per cent. The manufacture of pianos during this five-year period, although showing a gain of only one-tenth of 1 per cent in number, shows an increase of \$10,471,602, or 71.9 per cent, in their value. The increase in the value of pianos is wholly in pianos with player.

Except for the high prices prevailing in 1919, as compared with 1914, the organ industry would show a great loss in value of products, in place of an increase of \$45,169, or 3.1 per cent. The number of organs manufactured decreased 4,533, or 34.6 per cent.

Chemicals (Table 37).—This table presents the statistics of products for the chemical industries for 1919. The production, valued at \$41,836,545, comprises all products reported by 45 establishments engaged primarily in the manufacture of chemicals, including coal-tar products and sulphuric, nitric, and mixed acids, aggregating \$29,192,755, and chemicals to the amount of \$12,643,790 manufactured by establishments included under other industry classifications. The item of "Other chemicals" includes a large production of coal-tar origin.

In 1914 there were 28 establishments in the classified industries, including 26 with products valued at \$8,618,118 and 2 establishments engaged primarily in the manufacture of sulphuric, nitric, and mixed acids, for which products were not reported separately. The output of the 26 establishments in 1914 is comparable with 42 establishments and products valued at \$24,136,171 in 1919. Thus an increase of 62 per cent in number of establishments and 180.1 per cent in value of products is shown in the 1919 figures.

TABLE 37.—CHEMICAL INDUSTRIES: 1919.

	1919
Products, total value.....	\$41,836,545
The classified industries:	
Chemicals.....	22,660,803
Coal-tar products.....	2,075,368
Sulphuric, nitric, and mixed acids.....	5,056,684
Subsidiary chemical products from other industries.....	12,643,790
Acids.....	8,242,776
Sodas, sodium and compounds.....	1,837,696
Alums, aluminum and compounds.....	10,734,636
Compressed and liquefied gases.....	1,897,290
Other chemicals.....	18,637,985
All other products.....	686,262

Laundries (Table 38).—Statistics for power laundries are not included in the general tables nor in the totals for manufacturing industries. Table 38, however, summarizes the statistics for such laundries in the state of Illinois for 1919 and 1914.

TABLE 38.—POWER LAUNDRIES: 1919 AND 1914.

	NUMBER OR AMOUNT.		Per cent of increase, ¹ 1914-1919.
	1919	1914	
Number of establishments.....	470	461	2.0
Persons engaged.....	12,189	12,470	-2.3
Proprietors and firm members.....	405	437	-7.3
Salaried employees.....	1,205	1,029	17.1
Wage earners (average number).....	10,579	11,004	-3.9
Primary horsepower.....	14,833	13,472	10.1
Capital.....	\$12,627,971	\$8,401,935	50.3
Salaries and wages.....	9,983,147	6,624,805	50.7
Salaries.....	2,087,158	1,150,466	81.4
Wages.....	7,895,989	5,474,339	44.2
Paid for contract work.....	173,575	82,215	111.1
Rent and taxes.....	619,265	378,047	63.8
Cost of materials.....	4,942,918	2,638,683	87.3
Amount received for work done.....	20,606,032	12,846,432	60.4

¹ A minus sign (-) denotes decrease.

Dyeing and cleaning (Table 39).—Statistics for dyeing and cleaning establishments that were operated by mechanical power in 1919 are presented in this table. Statistics for such establishments have not been included in the general tables nor in the totals for manufacturing industries for censuses since 1900.

TABLE 39.—DYEING AND CLEANING: 1919.

	Number or amount.
Number of establishments.....	159
Persons engaged.....	2,119
Proprietors and firm members.....	133
Salaried employees.....	363
Wage earners (average number).....	1,633
Primary horsepower.....	2,165
Capital.....	\$2,601,186
Salaries and wages.....	2,421,715
Salaries.....	612,619
Wages.....	1,809,096
Paid for contract work.....	25,495
Rent and taxes.....	198,289
Cost of materials.....	1,249,993
Amount received for work done.....	5,298,935

Custom sawmills and custom gristmills (Tables 40 and 41).—Statistics for custom sawmills and custom gristmills are not included in the general tables nor in the totals for manufacturing industries. Data for these custom mills were not collected in 1914.

Tables 40 and 41, however, summarize the statistics for such mills for 1919 and 1909. The value of products for custom sawmills represents the amount charged for the work performed, and that for custom gristmills, the selling value of the grain milled.

TABLE 40.—CUSTOM SAWMILLS: 1919 AND 1909.

	NUMBER OR AMOUNT.		Per cent of increase, ¹ 1909-1919.
	1919	1909	
Number of establishments.....	98	123	-20.3
Persons engaged.....	104	805	-46.2
Proprietors and firm members.....	125	149	-16.1
Salaried employees.....	1	1	-75.6
Wage earners (average number).....	38	150	-18.0
Primary horsepower.....	1,841	2,244	-8.9
Capital.....	\$127,332	\$189,731	-30.7
Salaries and wages.....	20,808	38,784	-46.7
Salaries.....	633	38,784	-81.7
Wages.....	20,435	38,784	-6.3
Rent and taxes.....	1,040	2,699	508.6
Cost of materials.....	18,042	117,443	-20.9
Amount received for work done.....	82,206	117,443	-20.9

¹ A minus sign (-) denotes decrease.

TABLE 41.—CUSTOM GRISTMILLS: 1919 AND 1909.

	NUMBER OR AMOUNT.		Per cent of increase, ¹ 1909-1919.
	1919	1909	
Number of establishments.....	120	157	-23.6
Persons engaged.....	195	311	-37.3
Proprietors and firm members.....	148	200	-28.2
Salaried employees.....	2	4	-55.4
Wage earners (average number).....	45	101	-51.6
Primary horsepower.....	3,816	5,577	-24.4
Capital.....	\$781,893	\$628,452	24.4
Salaries and wages.....	43,132	42,296	2.0
Salaries.....	1,436	1,909	-24.8
Wages.....	41,696	40,387	3.2
Rent and taxes.....	9,827	5,934	65.6
Cost of materials ²	2,618,972	2,062,502	27.0
Value of products ²	3,193,058	2,340,542	36.4

¹ A minus sign (-) denotes decrease; percentage omitted where base is less than 100.² Includes estimate of all grain ground.

GENERAL TABLES.

Table 42 gives, for 1919, 1914, and 1909, the number of establishments, average number of wage earners, primary horsepower, wages, cost of materials, and value of products for selected industries in the state and in the cities of Chicago, East St. Louis, Peoria, Rockford, and Springfield, and for each of the cities in the state having from 10,000 to 50,000 inhabitants, for which comparative figures are available, similar data for all industries combined.

Table 43 presents, for 1919, for the state as a whole and for Chicago, East St. Louis, Peoria, Rockford, and Springfield statistics in detail for each industry for which figures can be shown without disclosing the operations of individual establishments, and the statistics for all industries combined for each of the cities in the state having from 10,000 to 50,000 inhabitants.

TABLE 42.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909.

INDUSTRY.	Census year.	Number of establishments	Wage earners (average number).	Primary horse-power.	Wages.	Cost of materials.	Value of products.	INDUSTRY.	Census year.	Number of establishments	Wage earners (average number).	Primary horse-power.	Wages.	Cost of materials.	Value of products.
THE STATE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES.															
All industries.....	1919	18,593	653,114	1,660,918	801,087	3,488,270	5,425,245	Cars, steam-railroad, not including operations of railroad companies.	1919	19	13,775	32,429	20,340	82,428	125,218
	1914	18,388	506,943	1,305,930	340,910	1,840,183	2,247,323		1914	23	18,000	37,622	15,686	40,429	61,316
	1909	18,026	465,764	1,013,071	273,319	1,100,927	1,919,277		1909	28	10,945	18,651	7,824	15,336	27,001
Agricultural implements..	1919	68	22,548	54,608	23,342	65,160	128,285	Cash registers and calculating machines.	1919	11	1,855	1,383	2,281	1,554	7,354
	1914	73	19,556	50,044	15,668	32,878	65,338		1914	10	514	587	350	100	1,368
	1909	79	19,240	38,040	11,718	24,824	57,268	Cement.....	1919	5	1,123	24,700	1,463	3,975	8,283
Automobiles, including bodies and parts.	1919	229	8,805	15,098	11,139	73,954	104,833		1914	6	1,467	23,986	1,184	2,859	6,468
	1914	91	2,545	3,421	1,946	6,288	11,018		1909	6	1,395	15,270	855	1,619	4,088
	1909	65	2,382	1,786	1,653	3,979	7,154	Chemicals.....	1919	33	3,004	23,393	3,837	12,003	22,061
Babbitt metal and solder..	1919	12	728	3,017	1,007	22,121	25,896		1914	26	1,682	8,590	1,164	5,360	8,618
	1914	12	203	1,117	155	4,296	5,143		1909	22	843	5,917	536	2,915	4,683
	1909	19	183	988	109	3,374	4,146	Clothing, men's, including shirts.	1919	532	33,738	6,657	44,630	93,609	201,816
Bags, other than paper, not including bags made in paper mills.	1919	9	381	349	286	5,400	7,934		1914	604	35,119	5,142	20,019	41,310	89,144
	1914	9	275	292	141	2,326	2,876		1909	715	36,152	3,729	16,580	45,228	89,473
	1909	6	189	167	176	685	965	Clothing, women's.....	1919	398	10,278	2,092	11,487	41,136	68,044
Baking powders and yeast.	1919	14	922	6,058	943	8,940	15,682		1914	241	8,113	1,163	4,530	11,219	20,751
	1914	19	628	3,022	383	3,467	8,455		1909	221	6,161	804	3,152	9,214	16,635
	1909	24	657	1,189	346	3,261	7,632	Coffee and spice, roasting and grinding.	1919	32	1,205	2,389	1,210	29,692	38,189
Blacking and cleansing and polishing preparations.	1919	86	528	559	512	3,230	6,287		1914	34	1,193	3,162	576	17,094	22,045
	1914	73	256	329	141	719	1,304		1909	35	1,018	2,709	525	15,114	19,751
	1909	58	236	336	123	569	1,230	Coffins, burial cases, and undertakers' goods.	1919	25	1,016	1,568	973	2,613	5,787
Boots and shoes, including cut stock and findings.	1919	63	8,421	6,078	6,499	30,430	46,389		1914	21	802	1,359	527	1,307	2,705
	1914	57	6,397	3,434	3,373	12,141	18,407		1909	21	732	1,071	406	982	2,260
	1909	53	5,792	2,770	3,143	10,869	16,755	Coke, not including gas-house coke.	1919	4	1,396	9,915	2,400	12,628	16,837
Boxes, paper and other, not elsewhere specified.	1919	87	5,923	8,195	5,171	15,550	28,893		1914	3	1,178	13,054	942	5,828	7,840
	1914	80	4,580	5,600	2,158	5,173	9,741	Confectionery and ice cream.	1919	462	8,779	14,379	3,367	41,096	73,007
	1909	61	4,085	4,143	1,501	3,012	6,350		1914	332	5,829	10,001	2,871	14,905	27,061
Brass, bronze, and copper products.	1919	90	3,174	5,847	3,856	15,690	25,107	Cooperage and wooden goods, not elsewhere specified.	1919	55	1,617	4,003	1,940	8,081	12,397
	1914	75	1,602	2,098	1,109	5,240	7,570		1914	61	1,921	4,730	1,090	4,596	6,598
	1909	79	1,583	1,859	1,136	4,148	6,842		1909	80	2,388	5,247	1,127	4,479	6,611
Bread and other bakery products.	1919	2,345	12,418	13,750	14,383	61,597	102,664	Copper, tin, and sheet-iron products. ²	1919	441	10,609	12,692	11,884	39,790	65,257
	1914	2,278	10,404	9,465	6,828	23,639	45,250		1914	508	7,445	7,340	4,853	13,825	24,815
	1909	2,099	8,611	5,618	5,495	21,606	36,118		1909	483	7,473	5,510	4,315	13,193	22,823
Brick, tile, pottery, and other clay products.	1919	158	6,279	41,305	7,094	5,219	19,416	Cordials and flavoring sirups.	1919	10	81	829	132	4,026	6,063
	1914	235	8,610	43,773	6,134	3,959	14,222		1914	9	42	659	24	809	2,016
	1909	379	9,731	44,008	6,271	3,617	14,380	Corsets.....	1919	22	2,273	484	1,534	4,703	9,232
Butter, cheese, and condensed milk.	1919	223	1,991	8,467	2,104	49,619	58,298		1914	19	1,974	841	715	2,063	3,979
	1914	267	1,755	6,184	1,079	18,236	21,792		1909	16	1,502	541	525	1,195	2,711
	1909	295	1,732	6,763	942	14,267	17,798	Cutlery and tools, not elsewhere specified.	1919	132	3,962	7,791	4,815	5,711	15,892
Canning and preserving ¹ ..	1919	132	3,680	8,299	3,178	17,833	28,341		1914	84	1,631	4,082	1,032	1,177	3,297
	1914	117	2,560	7,078	1,108	6,680	10,121		1909	80	1,303	2,385	760	1,072	2,758
	1909	118	2,383	4,305	904	4,813	7,620	Electrical machinery, apparatus, and supplies.	1919	161	27,290	32,660	30,571	51,626	119,528
Carriages and wagons and materials.	1919	107	2,692	7,621	3,238	8,134	14,863		1914	142	16,483	21,140	12,366	19,379	45,667
	1914	296	4,861	12,285	3,405	8,368	15,192		1909	143	9,641	11,636	6,413	13,628	26,826
	1909	325	5,852	9,684	3,588	9,479	16,831	Fertilizers.....	1919	12	953	3,090	755	3,723	6,160
Cars and general shop construction and repairs by electric-railroad companies.	1919	49	3,151	6,395	4,399	2,797	7,478		1914	12	696	3,739	398	2,350	3,775
	1914	43	1,813	1,845	1,387	1,527	3,181		1909	11	444	2,145	225	1,425	2,386
	1909	30	2,240	2,225	1,395	1,807	3,451	Flour-mill and gristmill products.	1919	322	2,740	37,118	2,926	103,165	116,563
Cars and general shop construction and repairs by steam-railroad companies.	1919	133	40,219	54,852	55,601	39,801	103,219		1914	400	2,398	35,793	1,450	42,841	49,493
	1914	94	28,682	36,781	20,433	18,318	41,496		1909	461	2,464	38,472	1,271	45,590	51,111
	1909	73	23,131	20,740	15,288	15,233	32,229								

¹ Includes "pickles, preserves, and sauces."² Includes "stamped and enameled ware, not elsewhere specified," and "tinware, not elsewhere specified."

TABLE 42.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909—Continued.

INDUSTRY.	Cen- sus year.	Num- ber of estab- lish- ments	Wage earn- ers (aver- age num- ber).	Pri- mary horse- power.	Expressed in thousands of dollars.			INDUSTRY.	Cen- sus year.	Num- ber of estab- lish- ments	Wage earn- ers (aver- age num- ber).	Pri- mary horse- power.	Expressed in thousands of dollars.		
					Wages.	Cost of materi- als.	Value of prod- ucts.						Wages.	Cost of materi- als.	Value of prod- ucts.
THE STATE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES—Continued.															
Food preparations, not elsewhere specified.	1919 1914 1909	134 115 110	4,061 1,7												

¹ Includes "automobile repairing"; "bells"; "engines, steam, gas, and water"; "gas machines and gas and water meters"; "hardware"; "hardware, saddlery"; "iron and steel, tempering and welding"; "machine tools"; "plumbers' supplies, not elsewhere specified"; "pumps, steam and other power"; "steam fittings and steam and hot-water heating apparatus"; "steel barrels, drums, and tanks"; "structural ironwork, not made in steel works or rolling mills"; and "textile machinery and parts, in all years; and "iron and steel, cast-iron pipe," in 1914.

² Includes "pocketbooks"; "saddlery and harness"; and "trunks and valises."

³ Includes "boxes, wooden packing, except cigar boxes"; "lumber, planing-mill products, not including planing mills connected with sawmills"; and "window and door screens and weather strips."

⁴ Includes "cardboard, not made in paper mills" and "envelopes."

⁵ Includes "perfumery and cosmetics."

⁶ Includes "bookbinding and blank-book making"; "engraving, steel and copper plate, including plate printing"; and "lithographing."

⁷ Includes "sausage, not made in slaughtering and meat-packing establishments."

TABLE 42.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909—Continued.

INDUSTRY AND CITY.	Cen- sus year.	Num- ber of estab- lish- ments	Wage earn- ers (aver- age num- ber).	Pri- mary horse- power.	W
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CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES.

CHICAGO.....									CHICAGO—Con.								
All industries.									Copper, tin, and sheet- iron products. ¹								
	1919	10,537	403,942	825,972	507,754	2,379,242	3,657,424		1919	254	6,330	5,864	7,237	21,826	38,015		
	1914	10,115	313,710	681,114	213,737	901,933	1,438,498		1914	293	3,998	3,196	2,774	7,214	13,236		
	1909	9,656	293,977	525,236	170,973	790,809	1,281,171		1909	268	3,859	2,869	2,472	6,463	12,242		
Automobiles, including bodies and parts.	1919	149	4,900	5,493	6,414	49,935	69,545	Cutlery and tools, not else- where specified.	1919	103	3,387	5,845	4,123	4,820	13,400		
	1914	65	1,429	1,612	1,107	2,155	4,700		1914	56	1,150	2,098	706	706	2,170		
	1909	41	1,460	734	1,131	1,707	3,940		1909	53	982	1,499	554	680	1,895		
Boots and shoes, includ- ing cut stock and find- ings.	1919	40	3,871	2,576	3,658	15,341	23,879	Electrical machinery, ap- paratus, and supplies.	1919	140	13,889	14,840	14,756	37,205	78,348		
	1914	41	3,936	2,022	2,367	7,523	11,663		1914	125	5,508	4,849	3,648	7,152	17,568		
	1909	31	3,027	1,103	1,920	6,045	9,855		1909	123	6,090	6,443	3,860	11,405	20,669		
Boxes, paper and other, not elsewhere specified.	1919	70	4,489	3,706	3,950	9,760	19,251	Fancy articles, not else- where specified. ²	1919	54	909	224	735	2,397	4,344		
	1914	67	3,756	2,148	1,700	3,325	6,945		1914	46	634	419	447	1,203	2,344		
	1909	48	3,009	1,575	1,311	2,232	5,044		1909	40	438	210	218	568	1,280		
Brass, bronze, and copper products.	1919	72	2,510	3,460	3,104	12,893	20,422	Food preparations, not elsewhere specified.	1919	99	2,838	7,720	2,914	47,796	57,055		
	1914	59	1,222	2,153	897	4,381	6,314		1914	74	1,141	2,099	620	7,473	10,048		
	1909	50	1,167	1,009	810	3,266	5,131		1909	77	798	1,432	309	4,052	6,965		
Bread and other bakery products.	1919	1,338	9,413	9,429	11,193	45,104	77,542	Foundry and machine- shop products. ³	1919	903	44,386	85,320	57,886	103,539	230,419		
	1914	1,305	7,030	6,543	5,091	17,418	34,217		1914	707	31,404	59,471	22,842	36,064	85,859		
	1909	1,177	6,437	3,847	4,146	10,280	26,908		1909	669	31,055	54,876	20,490	40,755	89,609		
Butter.....	1919	6	163	454	193	4,383	4,886	Fur goods.....	1919	120	654	152	1,077	4,576	8,019		
	1914	7	67	233	42	1,087	1,347		1914	84	300	141	219	870	1,605		
	1909	5	68	169	48	1,089	1,394		1909	59	308	59	225	1,060	1,903		
Carriages and wagons, in- cluding repairs.	1919	40	1,210	3,143	1,574	4,233	7,117	Furnishing goods, men's..	1919	27	917	604	806	3,982	6,703		
	1914	127	1,735	4,881	1,295	2,541	4,989		1914	30	1,020	472	544	2,265	3,580		
	1909	117	1,933	3,003	1,233	2,482	5,015		1909	28	1,356	530	640	3,061	4,773		
Cars and general shop con- struction and repairs by steam-railroad compa- nies.	1919	26	15,746	25,759	21,252	16,525	41,589	Furniture.....	1919	222	8,627	14,840	9,725	18,582	41,612		
	1914	23	11,836	18,150	8,280	7,089	16,688		1914	212	9,733	18,561	6,357	10,735	23,950		
	1909	22	11,059	7,232	7,305	7,310	15,359		1909	196	9,712	14,196	6,917	8,959	20,108		
Cars, steam-railroad, not including operations of railroad companies.	1919	10	10,663	26,719	15,977	49,965	77,229	Gas and electric fixtures..	1919	34	1,097	1,433	1,181	2,802	5,540		
	1914	12	16,539	27,052	13,923	32,389	50,031		1914	43	1,254	1,317	899	2,021	4,075		
	1909	18	8,553	14,576	6,387	11,620	20,892		1909	47	1,434	956	815	1,859	4,100		
Chemicals.....	1919	17	242	2,392	341	2,111	4,368	House-furnishing goods, not elsewhere specified.	1919	44	741	1,128	623	3,804	6,024		
	1914	15	174	950	112	1,064	1,817		1914	40	495	688	251	1,512	3,054		
	1909	13	150	790	97	617	1,176	Ice, manufactured.....	1919	33	563	21,069	972	971	4,988		
Cleansing and polishing preparations.	1919	48	348	391	367	2,251	4,604		1914	18	448	10,732	403	455	1,334		
	1914	42	89	92	52	329	614		1909	6	206	3,024	153	126	569		
	1909	38	66	201	38	216	491	Iron and steel forgings, not made in steel works or rolling mills.	1919	12	1,142	5,202	1,520	4,573	8,076		
Clothing, men's, including shirts.	1919	486	31,287	5,813	43,227	88,278	193,051		1914	10	468	1,699	398	728	1,289		
	1914	563	32,400	4,292	19,042	38,440	84,340		1909	11	683	1,609	541	1,238	2,289		
	1909	678	33,615	2,916	18,638	39,907	86,296	Jewelry.....	1919	72	976	429	1,285	2,603	6,015		
Clothing, women's.....	1919	374	9,147	1,671	10,787	38,813	64,203		1914	89	929	514	751	1,212	3,136		
	1914	227	7,330	1,061	4,260	10,380	19,211		1909	55	910	294	606	1,218	2,635		
	1909	204	5,615	698	2,997	8,658	15,677	Knit goods.....	1919	38	1,517	870	1,080	3,331	6,023		
Coffins, burial cases, and undertakers' goods.	1919	14	762	1,129	785	2,008	4,620		1914	33	1,089	468	484	1,262	2,325		
	1914	13	654	1,100	440	1,071	2,262		1909	20	743	167	289	783	1,477		
	1909	13	576	828	339	764	1,833	Leather goods.....	1919	134	2,136	1,364	2,496	7,459	13,382		
Confectionery and ice cream.	1919	191	7,245	10,461	7,204	34,199	61,577		1914	175	1,703	1,142	1,087	3,021	5,463		
	1914	131	4,863	7,505	2,407	12,476	22,980		1909	99	2,178	804	1,174	3,280	5,861		
Cooperage and wooden goods, not elsewhere specified.	1919	24	1,069	2,483	1,415	5,618	8,726	Leather, tanned, curried, and finished.	1919	26	3,666	11,049	4,310	34,265	50,520		
	1914	34	1,186	2,229	662	2,660	3,839		1914	24	2,311	7,123	1,833	12,512	15,663		
	1909	37	1,166	1,984	601	2,188	3,368		1909	24	2,674	6,212	1,418	10,788	13,244		

¹ Includes "stamped and enameled ware, not elsewhere specified," and "tinware, not elsewhere specified."² Includes "combs and hairpins, not made from metal or rubber," and "ivory, shell, and bone work."³ Includes "automobile repairing," "engines, steam, gas, and water"; "gas machines and gas and water meters"; "hardware"; "hardware, saddlery"; "iron and steel, tempering and welding"; "machine tools"; "plumbers' supplies, not elsewhere specified"; "pumps, steam and other power";

TABLE 42.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909—Continued.

INDUSTRY AND CITY.	Cen- sus year.	Num- ber of estab- lish- ments	Wage earn- ers (aver- age num- ber).	Pri- mary horse- power.	Wages.	Cost of mater- ials.	Value of prod- ucts.	INDUSTRY AND CITY.	Cen- sus year.	Num- ber of estab- lish- ments	Wage earn- ers (aver- age num- ber).	Pri- mary horse- power.	Wages.	Cost of mater- ials.	Value of prod- ucts.
					Expressed in thousands of dollars.								Expressed in thousands of dollars.		
CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES—Continued.															
CHICAGO—Con.								EAST ST. LOUIS—Con.							
Liquors, malt.....	1919	27	1,890	16,515	2,739	5,279	20,573	All other industries.....	1919	99	7,224	36,603	8,581	39,180	58,457
	1914	37	3,073	22,156	3,978	7,599	28,933		1914	80	4,568	15,254	3,384	11,903	19,404
	1909	45	2,807	15,066	2,378	4,850	19,512		1909	83	4,335	20,780	2,590	8,092	13,682
Looking-glass and picture frames.	1919	50	1,937	2,107	2,082	2,709	7,087	PEORIA.....							
	1914	52	1,732	1,573	1,024	1,571	3,814	All industries.	1919	253	7,977	25,510	8,151	35,919	57,075
	1909	61	2,063	2,176	1,118	1,764	4,476		1914	283	6,285	22,381	4,144	21,289	34,689
									1909	283	5,981	16,266	3,552	17,773	33,061
Lumber and timber prod- ucts. ¹	1919	169	6,773	22,905	7,895	23,451	40,118	Bread and other bakery products.	1919	33	288	283	232	1,238	2,148
	1914	207	9,022	26,128	6,267	16,813	28,711		1914	34	275	256	158	576	1,057
	1909	195	10,462	25,917	6,149	20,768	32,700		1909	39	194	172	104	482	764
Mattresses and spring beds, not elsewhere specified.	1919	50	1,454	1,704	1,479	4,426	7,992	Cooperage, hogsheads and barrels.	1919	3	223	805	228	962	1,474
	1914	60	890	1,080	481	1,905	3,304		1914	5	238	1,103	175	876	1,176
	1909	58	683	495	371	1,349	2,377		1909	5	514	910	172	840	1,163
Musical instruments, pi- anos and organs and ma- terials.	1919	33	5,447	5,502	5,966	10,216	24,082	Flour-mill and gristmill products.	1919	4	29	460	35	622	909
	1914	46	4,950	5,502	3,304	5,055	12,071		1914	4	50	365	33	725	815
	1909	37	5,209	4,677	3,034	4,848	11,487		1909	4	34	326	22	640	750
Paint and varnish.....	1919	66	2,802	12,232	2,831	34,671	50,306	Foundry and machine- shop products. ²	1919	29	365	740	450	915	1,498
	1914	60	1,959	9,175	1,201	14,310	22,811		1914	15	195	431	152	183	439
	1909	61	1,066	5,837	996	11,845	18,942		1909	20	420	986	315	515	1,082
Patent medicines and compounds and drug- gists' preparations. ³	1919	239	1,833	2,024	1,836	10,670	27,763	Lumber, planing - mill products, not including planing mills connected with sawmills.	1919	6	138	368	153	276	562
	1914	271	1,309	1,644	788	3,199	10,809		1914	7	159	389	127	209	437
	1909	273	1,361	2,030	632	3,216	10,360		1909	6	166	458	120	184	398
Pickles, preserves, and sauces.	1919	46	1,353	1,973	1,109	3,637	12,825	Printing and publishing..	1919	30	473	463	365	552	1,789
	1914	44	987	2,781	465	3,087	4,678		1914	30	446	473	267	254	1,020
	1909	41	851	1,044	369	2,186	3,398		1909	32	325	410	209	221	881
Printing and publishing. ⁴	1919	1,561	30,469	32,679	38,029	71,272	194,612	Tobacco, cigars.....	1919	27	177	1	124	202	430
	1914	1,543	26,247	25,871	20,012	29,326	97,507		1914	32	264	.....	172	192	512
	1909	1,395	22,320	20,162	15,077	21,256	74,211		1909	36	308	.....	204	240	647
Roofing materials.....	1919	14	1,154	2,411	1,521	9,161	13,745	All other industries.....	1919	121	1,693	22,381	6,564	31,152	48,265
	1914	12	564	1,124	405	2,868	4,511		1914	156	4,693	19,884	3,060	18,274	59,233
	1909	8	206	307	123	1,497	2,461		1909	141	4,020	13,004	2,406	14,651	57,377
Signs and advertising novelties.	1919	98	1,366	898	1,327	2,273	5,853	ROCKFORD.....							
	1914	136	1,700	1,392	1,100	1,392	4,989	All industries.	1919	312	14,992	33,963	18,379	36,567	74,919
	1909	43	1,198	716	724	884	2,973		1914	265	10,472	21,039	6,643	13,414	26,371
Slaughtering and meat packing. ⁵	1919	95	46,474	68,773	71,014	965,107	1,092,908		1909	205	9,309	16,217	5,213	10,582	22,266
	1914	58	20,704	57,318	16,542	345,522	410,709	Automobile repairing.....	1919	19	85	140	106	139	318
	1909	67	22,004	45,029	11,985	285,250	325,062		1914	4	22	13	17	20	62
Smelting and refining, not from the ore.	1919	14	293	540	421	8,395	9,052	Bread and other bakery products.	1919	28	130	119	162	767	1,161
	1914	13	126	255	106	2,958	3,857		1914	19	147	106	106	319	552
	1909	7	91	168	63	2,237	2,574	Confectionery and ice cream.	1919	13	121	320	99	441	733
Soap.....	1919	26	2,239	2,488	2,339	19,328	25,505		1914	7	34	112	20	97	154
	1914	28	2,116	5,974	1,239	15,134	21,255	Copper, tin, and sheet- iron work.	1919	9	20	10	29	55	104
	1909	27	2,139	4,967	1,035	13,787	19,939		1914	13	27	1	17	46	97
Stoves and hot-air fur- naces.	1919	22	1,236	1,526	1,828	3,088	8,002	Foundry and machine- shop products. ⁶	1919	38	3,636	6,450	5,010	4,798	13,729
	1914	25	744	1,120	628	1,126	2,705		1914	25	1,389	2,762	1,103	679	2,444
	1909	26	1,027	931	710	1,101	3,070	Furniture.....	1919	32	2,097	5,708	2,547	4,782	9,837
All other industries.....	1919	2,798	100,373	367,573	121,606	515,142	854,349		1914	25	2,140	4,550	1,358	2,293	4,585
	1914	2,856	69,582	330,272	52,452	211,809	358,502	Knit goods.....	1919	5	1,712	2,184	1,793	5,517	9,728
	1909	2,811	77,911	258,549	45,437	213,066	357,488		1914	5	1,584	1,778	777	2,111	3,907
EAST ST. LOUIS..								All industries.							
All industries.	1919	157	8,785	40,627	10,936	53,903	77,293	Marble and stone work, monuments and tomb- stones.	1919	5	13	60	22	63	120
	1914	125	5,863	18,183	4,369	17,423	26,905		1914	6	18	23	15	60	106
	1909	138	5,226	23,238	3,233	11,361	18,104	Printing and publishing, book and job.	1919	16	132	127	124	191	488
Bread and other bakery products.	1919	24	70	85	95	331	556		1914	16	129	99	80	73	309
	1914	17	77	72	62	216	335	Printing and publishing, newspapers and period- icals.	1919	5	74	98	97	210	584
	1909	20	71	49	53	177	336		1914	6	68	102	79	40	253
Cars and general shop con- struction and repairs by steam-railroad compa- nies.	1919	7	1,142	656	1,879	1,117	3,266	Pumps, not including power pumps.	1919	4	235	565	332	205	832
	1914	6	991	730	765	370	1,276		1914	3	206	290	160	230	480
	1909	3	628	409	457	364	847	Tools, not elsewhere speci- fied.	1919	8	74	274	93	74	334
Copper, tin, and sheet- iron work.	1919	13	29	2	36	52	123		1914	4	29	58	23	16	57
	1914	7	18	.....	14	24	50	All other industries.....	1919	130	6,663	17,818	7,965	19,325	30,951
	1909	14	73	.....	66	82	183		1914	132	4,679	11,085	2,890	7,430	13,375
Flour-mill and gristmill products.	1919	6	289	3,281	317	13,177	14,786								
	1914	7	192	2,127	133	4,899	5,811								
	1909	6	108	2,000	58	2,634	3,016								
Tobacco, cigars.....	1919	8	31	.....	28	46	105								
	1914	8	17	.....	11	11	29								
	1909	12	11	.....	9	12	40								

¹ Includes "boxes, wooden packing, except cigar boxes"; "lumber, planing-mill products, not including planing mills connected with sawmills"; and "window and door screens and weather strips."

² Includes "perfumery and cosmetics."

³ Includes "bookbinding and blank-book making"; "engraving, steel and copper plate, including plate printing"; and "lithographing."

⁴ Includes "sausage, not made in slaughtering and meat-packing establishments."

⁵ Includes "hardware"; "iron and steel, welding"; "steel barrels, drums and tanks"; and "structural ironwork, not made in steel works or rolling mills" in all years; and "automobile repairing"; "gas machines"; and "steam fittings and steam and hot-water heating apparatus" in 1919.

⁶ Includes "iron and steel, welding"; "machine tools"; and "textile machinery and parts."

MANUFACTURES—ILLINOIS.

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TABLE 42.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909—Continued.

INDUSTRY AND CITY.	Cen- sus year.	Num- ber of estab- lish- ments	Wage earn- ers (aver- age num- ber).	Pri- mary horse- power.	Wages.	Cost of mate- rials.	Value of prod- ucts.	INDUSTRY AND CITY.	Cen- sus year.	Num- ber of estab- lish- ments	Wage earn- ers (aver- age num- ber).	Pri- mary horse- power.	Wages.	Cost of mate- rials.	Value of prod- ucts.
					Expressed in thousands of dollars.								Expressed in thousands of dollars.		
CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES—Continued.															
SPRINGFIELD..... All industries.	1919 1914 1909	181 189 171	5,365 4,167 3,652	7,849 9,823 6,368	5,077 2,535 2,090	12,384 5,882 4,204	22,723 11,770 8,497	SPRINGFIELD—Con. Lumber and timber prod- ucts. ¹	1919 1914 1909	7 9 7	88 106 147	263 358 312	97 83 89	206 144 110	358 294 242
Bread and other bakery products.	1919 1914 1909	18 17 16	113 83 55	129 102 79	101 56 43	514 210 182	883 370 310	Printing and publishing..	1919 1914 1909	24 28 27	399 424 321	335 387 257	425 195 203	444 241 163	1,441 936 739
Cars and general shop construction and re- pairs by steam-rail- road companies.	1919 1914	4 4	397 327	475 1,020	634 231	287 155	971 410	Tobacco, cigars.....	1919 1914 1909	15 31 30	65 120 122	3	47 65 61	72 67 73	201 190 206
Copper, tin, and sheet- iron work.	1919 1914 1909	15 14 10	54 54 60	7 63 32	56 48 39	77 62 90	211 159 178	All other industries.....	1919 1914 1909	86 75 71	3,957 2,906 2,726	5,742 7,300 4,894	3,400 1,766 1,526	9,736 4,796 3,331	16,623 8,950 6,340
Foundry and machine- shop products.	1919 1914 1909	12 11 10	292 137 221	895 593 794	317 91 135	1,048 207 255	2,030 461 482								
CITIES OF 10,000 TO 50,000 INHABITANTS—ALL INDUSTRIES COMBINED.															
ALTON.....	1919 1914 1909	60 76 69	3,236 2,602 2,429	10,032 8,335 5,453	3,111 1,759 1,528	10,775 8,604 7,262	31,037 12,865 10,096	GRANITE CITY.....	1919 1914	37 39	5,493 5,090	25,322 17,556	8,193 4,007	25,760 9,845	43,039 17,903
AURORA.....	1919 1914 1909	133 140 165	6,608 4,777 5,095	11,429 7,794 7,906	7,687 3,033 2,936	12,684 5,259 5,580	30,039 10,789 10,954	JACKSONVILLE.....	1919 1914 1909	59 63 57	1,091 932 947	1,830 2,855 1,189	936 499 487	5,177 1,360 1,307	7,127 2,355 2,299
BELLEVILLE.....	1919 1914 1909	141 129 119	3,160 2,450 1,872	6,212 4,447 4,641	2,896 1,410 1,062	7,680 2,906 2,324	14,017 5,727 4,615	JOLIET.....	1919 1914 1909	166 136 137	11,259 4,999 6,383	83,226 45,918 37,744	15,714 3,569 4,435	49,002 20,036 27,758	82,670 30,091 38,817
BLOOMINGTON.....	1919 1914 1909	83 100 107	2,818 2,384 2,077	6,196 4,579 2,877	3,396 1,540 1,186	5,597 2,084 2,527	11,520 4,804 4,808	KANKAKEE.....	1919 1914 1909	54 53 55	1,969 1,430 1,349	4,575 3,543 3,988	1,838 763 622	3,844 1,704 1,493	7,237 3,193 2,723
CAIRO.....	1919 1914 1909	55 61 56	1,792 1,522 1,237	6,731 5,222 4,764	1,745 853 628	7,310 3,046 2,957	10,526 4,584 4,440	KEWANEE.....	1919 1914	37 31	3,900 2,837	9,167 5,394	5,223 1,576	7,389 2,686	16,279 5,447
LA SALLE.....	1919 1914 1909	38 30 28	1,792 1,214 936	20,388 8,342 5,795	2,283 817 593	5,271 3,484 2,683	9,534 5,246 4,328								
LINCOLN.....	1919 1914 1909	33 40 40	194 239 220	559 506 385	143 134 115	384 284 290	785 561 570								
MATTOON.....	1919 1914 1909	65 47 35	1,134 735 948	1,707 2,305 1,019	1,408 471 561	1,856 693 668	4,051 1,644 1,434								
MOLINE.....	1919 1914 1909	61 108 65	5,444 5,053 5,387	16,091 12,200 10,005	7,438 3,510 3,474	22,688 10,387 11,049	44,871 19,025 20,064								
OAK PARK.....	1919 1914 1909	44 47 23	383 268 282	737 1,113 758	481 241 197	975 1,555 1,118									
PERIN.....	1919 1914	37 44	934 634	6,042 6,628	1,169 492	16,563 3,972	25,664 9,610								
QUINCY.....	1919 1914 1909	183 194 235	4,443 3,067 3,997	11,739 6,297 7,557	4,208 1,863 2,066	12,438 4,435 5,631	23,490 9,557 11,066								
ROCK ISLAND.....	1919 1914 1909	83 106 74	3,208 1,837 1,754	8,625 5,430 3,173	3,942 1,377 1,026	14,248 3,411 2,818	22,350 6,488 5,387								
STREATOR.....	1919 1914 1909	69 60 45	1,801 1,763 1,275	4,973 5,823 3,140	1,124 1,040 644	2,953 3,887 2,137									
WAUKEGAN.....	1919 1914 1909	52 48 58	2,538 2,276 2,956	23,172 18,663 23,044	3,865 1,777 2,038	15,016 7,630 13,889	24,093 12,439 19,541								

¹ Includes "boxes, wooden packing, except cigar boxes"; and "lumber, planing-mill products, not including planing mills connected with sawmills" in all years; and "window and door screens" in 1919 and 1914.

TABLE 43.—DETAILED STATEMENT OF ALL INDUSTRIES

INDUSTRY AND CITY.	Number of establishments	PERSONS ENGAGED IN THE INDUSTRY.									WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.				Capital.
		Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc.		Wage earners.			Total.	16 and over.		Under 16.		
					Male.	Female.	Average number.	Number, 15th day of—			Male.	Female.	Male.	Female.	
								Maximum month.	Minimum month.						

THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES.

		18,593	804,805	15,282	34,278	64,397	37,734	653,114	No 689,945	My 018,701	(*)	(*)	(*)	(*)	(*)	Dollars.
1	All industries.....															8,386,452,969
2	Agricultural implements.....	68	26,555	27	1,025	2,103	852	22,548	Fe 25,045	Au 18,920	23,262	22,811	418	33	.....	150,484,328
3	Aluminum manufactures.....	6	405	4	16	19	33	333	Do 430	Ja 201	445	401	44	.....	.....	1,288,940
4	Artificial flowers.....	13	339	7	14	23	18	277	No 367	Ja 188	351	67	256	2	26	358,493
5	Artificial limbs.....	12	89	7	11	6	6	59	Se 64	Ja 48	50	50	6	.....	.....	76,700
6	Artificial stone products.....	276	1,100	317	68	34	25	656	Au 899	Fe 408	794	791	3	.....	.....	2,472,799
7	Artists' materials.....	8	40	5	3	3	2	27	Se 20	Ja 24	29	23	4	1	1	129,587
8	Asbestos products, not including steam packing.....	6	232	.....	15	9	6	202	Se 295	Fe 103	203	149	52	2	.....	375,462
9	Automobile bodies and parts.....	204	6,509	136	397	352	326	5,298	De 6,361	Ja 4,298	6,353	5,929	405	14	5	16,911,058
10	Automobiles.....	25	4,455	5	234	477	232	3,507	No 4,040	Ja 3,017	3,985	3,898	79	8	.....	26,073,294
11	Automobile repairing.....	785	4,627	963	194	160	190	3,120	Jy 3,282	Ja 2,918	3,231	3,191	37	3	.....	8,017,459
12	Awnings, tents, and sails.....	53	528	55	46	55	24	348	Jo 452	Ja 247	353	187	148	12	6	1,582,955
13	Babbitt metal and solder.....	12	1,012	2	66	151	65	728	.....	.....	969	801	77	1	.....	10,383,264
14	Babbitt metal.....	9	948	2	57	142	49	698	No 934	Au 431	936	800	79	.....	.....	9,776,601
15	White metal and solder.....	3	64	.....	9	9	16	30	De 33	Ap 27	33	31	1	1	.....	606,793
16	Bags, other than paper, not including bags made in paper mills.....	9	439	5	20	17	10	381	De 446	Fe 324	440	150	265	.....	25	3,338,701
17	Baking powders and yeast.....	14	1,636	4	61	354	295	922	No 1,087	Ap 801	1,097	702	395	.....	.....	9,130,832
18	Baskets, and rattan and willow ware.....	12	63	8	5	4	2	44	No 64	Ja 29	60	50	1	9	.....	67,217
19	Belting, leather.....	9	298	4	29	49	24	192	Se 208	Jo 175	213	206	5	1	1	2,006,687
20	Billiard tables and accessories.....	3	39	1	3	3	2	30	(*) 30	(*) 30	30	15	15	.....	.....	72,525
21	Blackening, stains, and dressings.....	25	287	19	24	51	26	167	No 210	Ja 140	188	81	105	.....	2	652,742
22	Bluing.....	5	51	5	4	5	.....	40	Se 61	Ja 30	34	12	18	.....	4	74,812
23	Bookbinding and blank-book making.....	113	2,872	98	137	130	112	2,395	De 2,576	Ja 2,164	2,614	1,351	1,113	66	84	4,703,224
24	Boots and shoes.....	51	8,963	22	267	643	347	7,684	De 8,737	Ap 5,009	8,740	4,686	3,793	143	124	21,466,979
25	Boxes, cigar.....	12	254	12	7	7	4	224	De 239	Fe 216	238	85	126	2	25	404,046
26	Boxes, paper and other, not elsewhere specified.....	87	6,868	41	289	372	243	5,023	.....	.....	6,472	2,715	2,825	210	722	18,844,625
27	Shipping containers.....	15	1,878	2	84	173	82	1,537	No 1,760	Jy 1,258	1,745	1,207	517	5	16	8,444,762
28	Set-up paper boxes.....	50	3,214	34	122	78	77	2,903	Oc 3,009	Ja 2,644	3,107	828	1,712	98	471	4,412,878
29	Cartons.....	12	696	3	40	46	24	483	No 544	Fe 437	501	281	200	3	17	1,621,894
30	All other.....	10	1,180	2	43	75	60	1,000	Ja 1,100	Mh 846	1,119	399	396	106	218	4,465,091
31	Boxes, wooden packing, except cigar boxes.....	63	4,020	45	161	122	68	4,624	Ja 5,024	Jy 2,965	4,663	4,127	510	24	2	9,002,089
32	Brass, bronze, and copper products.....	90	3,883	45	245	275	144	3,174	De 3,565	Jo 2,765	3,558	3,303	237	17	1	14,381,095
33	Bread and other bakery products.....	2,345	17,597	2,591	439	1,444	705	12,418	.....	.....	13,444	9,537	3,728	82	97	40,917,447
34	Biscuit and crackers.....	14	4,274	5	120	432	88	3,679	Jy 3,885	Mh 3,145	3,726	1,767	1,859	22	78	13,614,033
35	All other.....	2,331	13,323	2,586	319	992	617	8,839	De 9,458	My 7,723	9,718	7,770	1,869	60	19	27,303,414
36	Brick and tile, terra-cotta, and fire-clay products.....	144	6,471	110	399	237	98	5,023	.....	.....	6,932	6,917	8	7	.....	33,410,279
37	Building brick.....	74	3,278	56	188	100	34	2,900	Oc 3,994	Ja 1,296	3,700	3,785	3	2	.....	18,682,822
38	Fire brick.....	5	509	2	17	14	7	466	Se 548	Fe 296	555	555	.....	.....	.....	2,173,050
39	Sewer pipe and drain tile.....	43	361	40	48	31	20	722	Se 890	Fe 430	876	870	4	2	.....	3,240,210
40	Terra-cotta products.....	16	1,329	12	110	72	29	1,106	No 1,474	Fe 660	1,278	1,274	1	3	.....	6,672,557
41	All other.....	6	497	.....	36	20	8	433	Oc 593	Ja 341	433	.....	.....	.....	.....	2,644,234
42	Brooms.....	82	852	93	24	54	19	692	Fe 733	Jy 645	731	597	131	2	1	1,910,077
43	Brushes.....	40	523	38	27	41	38	379	Se 380	Ja 356	385	268	104	10	3	1,247,236
44	Butter.....	129	1,288	108	131	93	143	813	Je 940	Mh 683	789	629	158	2	.....	10,521,965
45	Buttons.....	33	524	35	25	6	6	452	De 546	Fe 404	551	387	160	2	3	604,985
46	Canning and preserving, fish.....	5	32	8	2	1	1	20	Fe 4	22	17	23	20	3	.....	123,377
47	Canning and preserving, fruits and vegetables.....	59	1,652	40	163	27	27	1,406	Se 4,768	Fe 480	1,689	1,055	605	19	10	7,562,036
48	Card cutting and designing.....	5	191	3	8	3	0	171	My 198	Ja 142	186	41	128	.....	17	199,932
49	Cardboard, not made in paper mills.....	3	155	.....	14	7	8	126	Oc 145	Ja 93	133	78	55	.....	.....	598,644
50	Carpets, rag.....	30	387	30	9	22	45	281	No 366	Mh 189	359	248	111	.....	.....	336,225
51	Carriage and wagon materials.....	8	445	8	20	20	8	389	Au 447	Ap 339	394	390	1	3	.....	1,434,737
52	Carriages and sleds, children's.....	8	205	6	8	9	6	176	Fe 183	Ap 161	170	134	40	5	.....	230,768
53	Carriages and wagons, including repairs.....	99	2,724	104	122	123	72	2,303	.....	.....	2,453	2,440	10	3	.....	14,486,030
54	Carriages and wagons.....	37	2,637	28	121	122	71	2,195	Oc 2,483	Je 1,852	2,342	2,332	9	1	.....	14,062,089
55	Repair work only.....	62	187	76	1	1	1	108	My 112	Fe 103	111	108	1	2	.....	423,941
56	Cars and general shop construction and repairs by electric-railroad companies.....	49	3,314	.....	72	62	20	3,151	De 3,474	Jy 2,842	3,463	3,443	20	.....	.....	14,390,576
57	Cars and general shop construction and repairs by steam-railroad companies.....	133	43,498	.....	1,219	1,605	455	40,219	No 41,883	My 38,978	41,917	41,658	257	2	.....	80,181,297
58	Cars, steam-railroad, not including operations of railroad companies.....	19	15,145	.....	389	791	190	13,775	Ja 15,964	Jy 11,151	13,109	12,970	139	.....	.....	63,884,050
59	Cash registers and calculating machines.....	11	2,168	7	66	151	89	1,855	.....	.....	1,953	1,495	456	2	.....	9,423,473
60	Adding machines.....	4	1,070	1	16	93	49	911	De 1,009	Ja 808	1,011	774	235	2	.....	4,264,443
61	All other.....	7	1,098	6	50	58	40	944	Ja 1,099	Au 856	942	721	221	.....	.....	5,159,030
62	Cement.....	5	1,304	.....	24	118	39	1,123	Oc 1,388	Ja 886	1,173	1,168	5	.....	.....	13,065,675
63	Charcoal, not including production in the lumber and wood-distillation industries.....	5	27	3	4	.....	.....	20	Ap 26	No 8	21	21	.....	.....	.....	37,676
64	Cheese.....	56	99	10	10	3	3	67	Je 80	Ja 50	76	73	3	.....	.....	320,678
65	Chemicals.....	33	3,554	14	128	274	134	3,004	Oc 3,544	Ap 2,570	3,248	3,200	48	.....	.....	19,923,193
66	China decorating, not including that done in potteries.....	10	104	10	4	8	6	76	No 82	Ja 59	87	53	34	.....	.....	170,315

* Includes water wheels and turbines (irrespective of ownership of water supply), and water motors (operated by water from city mains).

* Chiefly electric motors operated by rented (or purchased) current; other power included (chiefly shaft-belt or transmitted power from neighboring power plants).

* No figures given for reasons stated under "Explanation of terms."

MANUFACTURES—ILLINOIS.

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COMBINED AND SPECIFIED INDUSTRIES: 1919.

EXPENSES.								Value of products.	Value added by manufacture.	POWER.						
Salaries and wages.			For contract work.	Rent and taxes.		For materials.				Total.	Primary horsepower.					Electric horsepower generated in establishments reporting.
Officials.	Clerks, etc.	Wage earners.		Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.				Owned.					
			Steam engines (not turbines).					Steam turbines.	Internal-combustion engines.	Water power. ¹	Rent. ²					

THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES.

Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	
130,029,440	144,586,709	801,087,359	82,006,039	20,073,028	130,880,105	3,362,381,054	125,880,392	5,425,244,604	1,936,974,243	1,660,918	779,156	218,182	55,782	11,586	596,212	584,326	
3,306,170	4,034,713	28,342,271	47,081	50,244	4,734,058	62,893,409	2,266,411	128,284,716	63,124,896	54,608	22,000	10,134	72	1,090	21,312	24,979	
62,192	67,530	385,262	18,520	1,870	9,743	1,154,965	17,218	1,957,631	785,448	436	60	60	60	60	60	60	
46,989	54,763	164,470	18,520	17,098	4,145	358,093	4,372	890,314	527,849	60	25	25	25	25	25	25	
34,221	13,313	61,414	2,635	9,440	1,447	54,314	1,873	247,148	190,961	25	287	765	765	765	765	765	
113,227	60,086	728,207	2,635	26,668	21,342	984,996	37,032	2,711,868	1,089,840	1,874	287	765	765	765	765	765	
15,300	4,409	27,241	2,635	3,870	654	81,900	660	170,201	96,551	11	11	11	11	11	11	11	
30,257	10,141	232,086	2,635	0,851	4,647	495,959	16,558	912,141	399,624	326	326	326	326	326	326	326	
1,353,441	854,954	6,474,090	83,394	346,042	496,227	12,000,061	312,075	27,804,978	14,942,942	8,835	685	248	248	7,902	383	9	
867,257	970,259	4,664,716	49,985	120,157	3,167,141	60,867,016	164,750	77,018,464	15,980,692	6,263	380	670	670	5,213	72	10	
384,064	321,854	4,006,019	23,130	472,873	77,073	5,881,787	220,797	13,951,423	7,848,839	4,278	72	608	608	3,598	14	11	
164,955	101,689	460,005	2,298	50,494	41,522	1,507,686	15,977	2,894,213	1,370,550	270	85	85	85	185	30	12	
325,536	412,817	1,006,608	2,298	7,947	91,599	21,919,819	201,370	25,895,624	3,774,335	3,017	2,527	2,527	2,527	490	2,513	13	
240,138	374,970	967,532	2,298	2,580	75,759	18,882,665	195,933	22,362,641	3,284,043	2,947	2,527	2,527	2,527	420	2,513	14	
79,398	37,347	39,077	2,298	5,367	16,750	3,037,254	5,437	3,532,983	490,292	70	70	70	70	70	70	70	
203,950	47,883	238,474	2,298	42,563	167,612	5,389,482	10,837	7,933,704	2,533,385	349	125	125	125	224	125	16	
303,751	642,717	942,780	2,298	319,162	534,011	8,687,142	252,669	15,682,387	6,742,576	6,058	3,195	460	460	2,403	1,715	17	
9,600	7,855	42,093	2,298	6,029	1,684	79,312	1,621	167,299	86,366	16	16	16	16	16	16	16	
158,244	109,748	257,144	2,298	65,122	109,570	2,444,502	15,070	3,315,438	855,266	368	325	325	325	43	117	19	
11,400	3,000	28,960	2,298	300	2,794	18,947	1,422	82,241	61,872	27	27	27	27	27	27	20	
69,079	129,068	136,425	1,000	14,713	4,802	921,004	8,598	1,584,746	665,084	151	48	48	48	103	21	21	
18,582	6,305	27,876	2,298	4,590	397	223,984	1,665	331,434	105,785	92	92	92	92	92	92	22	
454,882	311,781	2,170,659	138,744	190,725	124,391	2,581,130	57,101	7,477,722	4,839,431	1,263	75	2	2	1,186	23	23	
854,821	1,095,603	5,902,500	63,180	150,995	615,906	24,610,655	608,264	39,402,383	14,184,064	5,164	3,300	3,300	3,300	1,804	2,107	24	
26,746	15,260	166,232	635	13,370	2,573	292,086	6,343	994,664	396,235	149	149	149	149	149	149	25	
1,180,468	1,043,541	5,170,685	20,901	272,028	820,139	15,200,475	295,350	28,993,083	13,337,258	8,195	3,271	138	1,500	3,286	1,448	20	
313,706	544,823	1,557,457	4,251	40,479	355,046	7,319,799	142,228	12,454,566	4,992,539	4,671	2,281	1,500	1,500	890	590	27	
435,734	221,106	2,226,778	9,812	162,047	130,577	3,437,804	94,628	8,238,342	4,705,850	1,553	250	53	53	1,250	128	23	
202,900	60,350	484,078	6,778	94,102	34,068	2,116,934	19,175	3,688,800	1,552,691	1,004	1,004	1,004	1,004	954	35	29	
168,128	181,263	902,377	80	35,434	240,414	2,385,878	39,319	4,511,375	2,086,178	967	740	35	35	192	605	30	
580,700	242,454	4,639,341	72,677	145,664	520,408	10,297,194	67,611	18,855,685	8,491,880	10,234	7,432	1,000	17	1,785	1,481	31	
1,007,981	513,688	3,855,753	19,110	150,819	631,991	15,223,287	466,409	25,106,507	9,416,811	5,847	185	20	20	5,642	27	32	
1,136,150	2,818,565	14,383,271	64,664	1,037,700	1,173,545	59,843,876	1,733,287	102,664,190	41,067,027	13,750	3,464	175	236	137	9,738	1,897	53
361,558	799,287	2,906,152	43,477	615,025	11,150,542	175,148	1,350,914	23,639,914	12,805,224	2,391	1,360	175	135	906	984	34	
774,592	2,019,278	11,477,119	64,664	994,223	558,520	48,634,334	1,578,139	79,024,276	28,761,803	11,359	2,114	175	236	2	8,832	913	35
1,057,112	450,003	5,502,174	17,604	20,755	337,817	1,905,904	2,923,932	17,664,017	12,734,181	40,098	28,019	360	332	10,490	4,745	36	
497,100	204,999	3,468,960	12,813	13,259	202,837	611,173	1,687,183	9,541,470	7,243,114	25,238	20,141	250	250	4,847	3,277	37	
84,678	33,350	494,894	4,289	5,259	15,539	241,268	234,226	1,813,647	838,153	2,720	1,470	25	25	1,225	326	38	
85,338	61,377	658,549	502	1,887	23,862	280,251	352,522	1,894,615	1,255,742	4,807	3,890	830	45	542	65	39	
269,030	107,674	1,305,965	350	80,487	363,849	429,880	240,021	3,373,531	2,580,002	4,010	2,825	12	12	2,073	1,078	40	
120,906	51,703	573,836	50	0,692	403,363	220,021	1,440,554	1,440,554	1,170,170	2,423	590	30	30	1,803	41	41	
87,608	141,807	721,389	50	26,390	18,234	1,963,027	18,863	3,422,924	1,450,134	554	161	59	8	331	115	42	
91,511	134,006	357,661	9,766	20,432	50,752	1,268,021	24,634	2,325,802	1,035,247	498	160	150	150	848	43	43	
345,480	221,359	790,255	3,745	25,801	111,364	23,583,871	149,635	26,370,027	2,037,521	4,015	1,080	41	303	2,535	1	14	
50,058	26,865	357,257	3,320	14,430	4,899	53,271	12,003	1,030,452	633,552	393	195	53	53	145	45	45	
6,240	1,924	27,023	1,951	8,100	920	357,160	5,369	448,816	85,787	13	13	13	13	13	13	46	
446,277	62,496	1,237,489	1,951	121,795	450,377	5,333,345	97,026	8,846,119	3,415,745	5,137	3,136	100	293	1,008	797	47	
52,478	24,585	120,714	9,933	7,496	159,560	2,790	495,056	332,700	48	48	48	48	48	48	48	48	
56,222	18,118	119,067	14,048	26,823	445,233	5,768	991,604	539,003	166	166	166	166	166	166	166	49	
28,550	60,792	280,941	600	27,692	7,212	314,133	16,201	973,468	843,134	350	25	26	26	299	50	50	
63,614	32,151	378,936	25	14,425	65,222	1,007,192	17,464	1,866,402	841,740	1,271	1,015	7	7	249	51	51	
27,765	23,637	103,102	25	42,376	353,413	6,923,194	186,069	12,907,081	5,887,768	6,350	2,145	2,150	49	1,806	1,820	53	
337,408	234,674	2,859,097	35,342	34,544	348,498	6,773,499	176,028	12,548,681	5,594,154	5,966	2,105	2,150	32	1,479	1,820	54	
335,804	233,781	2,716,014	31,947	7,832	4,915	144,695	10,041	448,350	203,614	384	40	17	17	327	55	55	
1,664	793	142,183	3,395	7,895	29,806	2,717,837	79,130	7,478,033	4,681,060	6,305	995	200	200	5,400	56	56	
153,539	92,878	4,399,343	310,107	6,600	258,343	37,290,566	2,510,261	103,219,253	63,418,426	54,852	32,680	3,789	117	18,266	31,705	57	
4,142,766	2,880,676	55,000,664	310,107	6,600	258,343	37,290,566	2,510,261	103,219,253	63,418,426	54,852	32,680	3,789	117	18,266	31,705	57	
1,105,950	1,465,712	20,339,878	50,031	6,704,792	81,077,615	1,350,119	125,217,722	42,789,988	32,429	8,451	18,333	1,000	4,645	32,007	58	58	
314,375	208,079	2,281,286	3,128	26,492	1,025,139	1,507,236	46,460	7,353,876	5,800,174	1,383	200	200	200	1,183	100	59	
60,471	144,227	1,148,644	728	7,092	345,446	1,078,667	26,098	4,029,114	2,924,349	973	200	200	200	973	60	60	
253,904	123																

MANUFACTURES—ILLINOIS.

TABLE 43.—DETAILED STATEMENT OF ALL INDUSTRIES

INDUSTRY AND CITY.	Number of establishments	PERSONS ENGAGED IN THE INDUSTRY.							WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.				Capital.	
		Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc.		Wage earners.		Total.	16 and over.		Under 16.		
					Male.	Female.	Average number.	Number, 15th day of—		Male.	Female.	Male.		Female.
								Maximum month.	Minimum month.					

THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.

																			Dollars.
1	Cleansing and polishing preparations.	61	656	34	77	153	31	361					381	234	140	4	3		1,562,579
2	Cleansing preparations.	25	106	18	19	19	9	41	My	47	Oc	38	56	40	14	2	1		170,611
3	Metal polish.	18	149	9	28	19	16	77	Fe	79	Jy	75	76	61	14				434,082
4	All other polishing preparations.	18	401	7	30	115	6	243	Ja	288	Ap	181	249	133	112	2	2		957,876
5	Clothing, men's.	502	40,389	536	1,123	3,011	2,823	32,896					30,388	18,319	20,769	85	225		92,988,982
6	Regular factories.	247	33,656	196	1,060	2,985	2,742	26,673					32,479	15,609	16,640	59	171		91,248,120
7	Men's and youths'.	173	29,089	136	849	2,582	2,530	22,992	Oc	27,155	Ja	19,131	27,957	14,182	13,612	44	119		80,353,857
8	Boys'.	10	1,155	12	53	113	53	924	De	1,141	Ap	716	1,138	558	553	27	2		2,635,571
9	All other.	64	3,412	48	158	290	159	2,757	De	3,370	Ja	2,198	3,384	809	2,475	15	25		8,258,692
10	Contract work.	255	6,733	340	63	26	81	6,223					6,900	2,710	4,119	26	54		1,740,862
11	Men's and youths'.	242	6,205	323	60	25	79	5,808	Oc	6,288	Ja	5,227	6,431	2,572	3,786	26	47		1,536,108
12	Boys'.	4	88	6	1	1	1	82	Ja	84	Mh	80	84	31	49	4	4		15,740
13	All other.	9	350	11	3	1	2	333	De	384	My	272	394	107	284	3	3		189,014
14	Clothing, men's, buttonholes.	3	13	4	1	1	1	9	My	10	Ja	7	11	3	8	1	1		3,750
15	Clothing, women's.	398	12,323	452	420	687	486	10,278					10,469	3,022	7,305	17	125		25,126,503
16	Regular factory products.	363	11,817	409	418	687	485	9,823					9,942	2,801	7,001	17	123		25,005,263
17	Suits, skirts, and cloaks.	145	3,902	183	126	278	224	3,091	Se	3,539	Ja	2,539	3,153	1,723	1,408	4	18		9,409,866
18	Shirt waists and dresses, except house dresses.	114	4,223	127	141	200	147	3,008	Se	3,899	Ja	3,275	3,462	556	2,847	6	53		6,548,571
19	Undergarments and petti- coats.	25	1,588	17	56	96	53	1,366	No	1,500	Ja	1,260	1,488	358	1,094	6	30		5,492,745
20	Wrappers and house dresses.	20	750	15	37	53	19	626	No	687	My	584	670	63	591	1	15		1,005,635
21	All other.	59	1,354	67	53	60	42	1,132	No	1,199	Ja	996	1,169	101	1,061	7	7		2,578,446
22	Contract work.	35	506	43	7	1	1	455					527	221	304	2	2		121,240
23	Suits, skirts, and cloaks.	22	292	28	3	1	1	260	Au	331	My	171	207	185	112	1	1		44,253
24	Shirt waists and dresses, except house dresses.	3	84	2	2	1	1	80	Se	101	Ja	52	82	8	74	1	1		0,014
25	All other.	10	130	13	2	1	1	115	Oc	153	Je	82	148	28	118	2	2		67,973
26	Coal-tar products.	9	290	2	35	24	13	136	Au	206	Mh	169	212	205	7	1	1		1,835,569
27	Coffee and spice, roasting and grind- ing.	32	2,656	25	140	1,035	251	1,205	De	1,260	Ap	1,127	1,275	703	519	32	21		17,694,964
28	Coffins, burial cases, and under- takers' goods.	25	1,260	4	73	145	22	1,010	Mh	1,093	De	944	943	752	182	3	6		4,067,672
29	Coke, not including gas-house coke.	4	1,640	6	89	119	36	1,390	Ja	1,625	Oc	710	1,558	1,558	125	10	4		25,031,172
30	Condensed milk.	38	1,377	6	88	90	82	1,111	Je	1,208	Ja	1,016	1,080	921	125	10	4		14,636,102
31	Confectionery and ice cream.	462	11,026	458	578	686	525	8,779					9,485	4,597	4,549	78	261		30,663,459
32	Confectionery.	237	9,226	209	429	597	428	7,563	Oc	9,516	Jy	5,810	8,385	3,645	4,439	40	261		23,164,273
33	Ice cream.	225	1,800	249	149	89	97	1,216	Jy	1,597	Ja	951	1,100	952	110	38	1		7,499,186
34	Cooperage.	46	1,601	25	84	25	20	1,447					1,515	1,448	60	6	1		4,849,702
35	Hogsheads and barrels.	38	1,234	25	57	20	10	1,122	Oc	1,188	Au	1,067	1,216	1,158	56	1	1		3,704,052
36	All other.	8	367	27	5	10	325	325	Je	393	Ja	285	299	200	4	5	1		1,065,560
37	Copper, tin, and sheet-iron work.	391	3,101	409	190	132	138	2,232	Oc	2,450	Ja	1,965	2,489	2,410	59	14	1		8,285,978
38	Cordials and flavoring sirups.	10	228	2	19	93	33	81	My	106	Au	66	87	64	23	1	1		631,333
39	Corsets.	22	2,708	8	103	106	218	2,273	De	2,579	Mh	2,141	2,632	306	2,184	33	109		5,836,148
40	Cotton goods.	7	1,355	30	26	22	11	1,277	Se	1,454	Fe	1,098	1,458	689	614	96	59		4,723,285
41	Cotton small wares.	3	283	3	4	11	4	261	Ap	202	Se	259	261	67	188	6	6		402,050
42	Cutlery and edge tools.	18	1,104	16	71	58	55	964	No	1,050	Ap	745	1,080	956	111	9	4		4,327,646
43	Dairymen's, poultrymen's, and apia- rists' supplies.	26	787	23	52	58	45	609					604	510	88	1	1		3,175,310
44	Incubators and brooders.	7	105	4	5	11	3	82	Ja	110	Jy	46	109	103	6	1	1		321,742
45	All other poultrymen's supplies.	6	27	7	1	1	1	18	Se	21	My	15	19	17	2	1	1		68,357
46	Dairymen's and apiarists' sup- plies.	13	655	12	46	47	41	509	Je	553	No	406	476	396	80	1	1		2,785,211
47	Dental goods.	21	417	17	16	29	36	319	De	328	Ja	301	322	247	66	8	1		526,593
48	Drug grinding.	4	185	1	9	4	5	166	Oc	189	De	137	137	79	49	4	5		853,963
49	Druggists' preparations.	31	979	15	68	214	179	503	Ja	581	Jy	425	501	299	196	3	3		3,676,433
50	Dyeing and finishing textiles, exclu- sive of that done in textile mills.	11	497	5	29	32	28	403	Fe	478	Au	359	413	191	218	2	2		1,641,968
51	Electrical machinery, apparatus, and supplies.	161	36,515	46	1,319	5,094	2,766	27,290	De	30,065	Mh	25,650	30,952	21,568	8,711	536	137		96,811,473
52	Electroplating.	49	651	49	47	15	19	521	No	587	Ja	429	592	542	28	20	2		709,514
53	Emery and other abrasive wheels.	6	105	2	14	16	0	67	Oc	85	Ja	51	85	85	17	4	1		671,329
54	Enameling.	9	158	9	7	2	4	136	De	177	Fe	97	178	157	17	4	1		256,314
55	Engines, steam, gas, and water.	25	10,335	6	520	803	355	8,645	Ja	9,821	Jy	7,785	8,784	8,603	180	1	1		47,823,555
56	Engravers' materials.	5	98	2	14	11	12	59	De	66	Ja	52	64	63	63	1	1		237,140
57	Engraving and disinking.	36	837	35	24	40	25	713	Au	820	Ja	600	804	787	27	9	1		2,473,332
58	Engraving, steel and copper plate, including plate printing.	33	1,462	21	98	74	80	1,189	De	1,280	Ap	1,109	1,281	774	436	25	46		3,649,362
59	Engraving, wood.	11	259	10	17	48	13	171	Jy	185	Ja	159	168	167	1	1	1		227,963
60	Envelopes.	17	1,650	5	57	98	98	1,394	De	1,485	Ap	1,306	1,487	606	844	17	20		3,994,921
61	Explosives.	9	627	39	99	35	454	907	Ja	491	De	412	446	426	20	1	1		4,294,438
62	Fancy articles, not elsewhere speci- fied.	54	1,140	52	60	70	51	907					939	291	605	8	35		1,706,175
63	Metal novelties.	12	298	10	17	18	13	240	No	300	Ja	180	247	151	90	2	0		395,252
64	Paper novelties.	8	134	12	6	2	8	106	Oc	138	Ja	75	109	29	73	2	5		214,312
65	All other.	34	708	30	37	50	30	561	Se	633	Ja	503	583	111	442	6	24		1,096,611
66	Fertilizers.	12	1,120	3	39	104	21	953	Se	1,240	De	780	861	861	19	1	1		6,430,846
67	Flags and banners.	9	142	3	7	8	9	112	Ja	126	Ap	101	107	19	83	1	4		261,157
68	Flavoring extracts.	24	471	15	34	155	46	221	Jy	289	Fe	178	251	102	140	1	8		799,909
69	Flour-mill and gristmill products.	322	4,007	331	362	418	156	2,740	Se	2,937	Mh	2,567	2,938	2,938	45	1	1		46,268,650

¹ Includes water wheels and turbines (irrespective of ownership of water supply), and water motors (operated by water from city mains).

² Chiefly electric motors operated by rented (or purchased) current; other power included (chiefly shaft-belt or transmitted power from neighboring power plants).

COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

EXPENSES.								Value of products.	Value added by manufacture.	POWER.						Electric horsepower generated in establishments reporting.
Salaries and wages.			For contract work.	Rent and taxes.		For materials.				Primary horsepower.						
Officials.	Clerks, etc.	Wage earners.		Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.			Total.	Owned.				Rent- ²	
										Steam engines (not turbines).	Steam turbines.	Internal-combustion engines.	Wg-ter power. ¹			

THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.

Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.							
244,932	385,217	375,788	354	60,392	38,461	2,233,051	17,287	4,701,776	2,401,438	408	12				387	4	
59,080	24,046	57,138	120	18,901	2,855	353,803	3,955	659,188	301,430	76					67	2	
58,064	58,369	90,876	234	16,464	5,377	696,090	6,961	1,105,167	402,116	134	12				122	3	
102,788	302,802	221,724		25,027	30,229	1,233,158	6,371	2,937,421	1,697,892	198					198	4	
6,183,945	7,688,235	43,982,249	10,912,457	1,395,916	4,415,420	90,765,053	483,237	197,616,795	106,368,505	6,429	350	125	3		5,921	271	
5,959,014	7,576,900	35,971,360	10,277,889	1,252,151	4,393,350	89,813,955	405,890	184,925,431	94,706,086	5,668	350	125			5,163	265	
5,022,483	6,320,726	32,222,750	9,467,681	1,131,462	4,143,223	77,023,338	333,104	162,378,798	85,022,356	4,180	295	125			3,760	247	
226,434	253,180	1,113,304	388,455	24,428	30,161	3,122,489	10,913	6,066,110	2,932,708						103	8	
710,697	497,075	2,035,300	421,753	96,261	219,966	9,668,128	61,373	16,480,523	6,751,022	1,385	85				1,300	18	
224,831	111,245	8,010,889	634,568	143,764	22,070	951,098	77,847	12,691,364	11,662,419	761			3		758	10	
216,231	109,741	7,633,897	631,607	136,124	20,085	919,443	69,741	12,111,201	11,122,077	664			3		601	6	
		114,260		1,248	281	3,970	1,352	143,764	138,442	11					11	12	
8,700	1,504	262,732	2,961	6,392	1,704	27,685	6,754	436,339	401,900	86					86	13	
		11,772		640	2	1,763	305	20,026	17,958	3					3	14	
2,043,775	2,492,101	11,487,399	1,478,669	605,461	324,739	40,987,702	147,906	98,044,268	26,908,660	2,092					2,092	15	
2,035,959	2,491,101	10,944,916	1,476,295	647,874	324,164	40,950,584	141,318	97,271,604	26,179,702	2,010					2,010	16	
515,650	1,075,209	4,704,203	1,004,436	280,757	89,301	18,763,660	41,519	20,985,132	11,179,953	430					430	17	
963,136	715,529	3,775,822	349,092	211,876	134,322	11,864,327	42,225	20,155,077	8,248,525	488					488	18	
251,415	386,962	1,182,669	25,523	55,336	38,259	4,966,010	25,819	8,075,366	3,053,537	652					652	19	
108,220	132,435	405,236	22,592	29,479	27,075	1,644,082	10,213	2,800,413	1,146,118	162					162	20	
197,532	180,906	876,986	74,652	70,429	35,117	3,682,505	21,642	6,265,616	2,551,599	278					278	21	
7,816	1,000	542,483	2,374	17,587	575	37,118	6,688	772,664	728,958	82					82	22	
5,720	1,000	372,106	1,180	11,128	476	26,404	3,328	508,943	479,211	47					47	23	
1,456		52,582		2,304	4	1,728	936	67,146	64,482	7					7	24	
640		117,795	1,194	4,155	95	8,080	2,324	196,575	185,265	28					28	25	
163,273	45,544	269,271		15,456	79,547	99,398	55,741	2,075,368	1,028,229	637	205		35		897	26	
607,219	2,066,113	1,209,825	7,776	171,900	320,206	29,554,410	188,024	38,188,646	8,496,212	2,389	420	500	80		1,389	27	
278,798	383,045	972,899	1,467	29,021	302,177	2,563,643	49,436	5,786,820	3,173,741	1,568	855				713	28	
237,125	257,477	2,399,848		3,567	1,195,591	854,561	11,773,154	16,837,024	4,209,309	9,915	4,815	5,100	10		13,991	29	
255,254	229,860	1,204,682	24,437	14,350	501,919	24,272,797	404,022	30,437,845	5,701,026	4,020	3,434	219			357	30	
2,230,727	1,839,691	8,367,426	138,312	504,072	3,404,204	40,313,450	782,071	78,096,890	32,001,369	14,379	2,293		376	4	11,708	31	
1,732,739	1,630,979	6,723,143	128,840	447,693	3,204,014	31,632,271	486,747	38,205,304	28,080,296	7,520	1,940				5,680	32	
497,988	208,712	1,044,283	9,472	116,379	199,590	8,681,179	295,324	14,891,556	5,915,088	6,859	359		376	4	6,122	33	
405,187	79,147	1,792,982		26,799	303,041	7,623,833	49,271	11,570,824	3,903,720	3,440	3,086		40		315	34	
312,279	52,002	1,434,605		12,455	311,078	6,092,145	39,188	9,111,774	3,010,441	2,928	2,710		40		178	35	
92,908	27,145	358,417		14,344	51,963	1,561,688	10,983	2,465,050	883,279	512	376				137	36	
654,665	322,448	2,893,171	34,903	149,690	178,946	6,045,402	109,889	13,208,281	7,061,830	2,266	192		51		2,025	37	
102,094	150,592	132,415		29,041	362,037	4,023,119	3,040	6,092,922	2,036,763	829	625				204	38	
332,371	618,237	1,633,673	92,245	295,889	235,086	4,061,725	41,697	9,232,201	4,528,779	454	50				484	39	
181,265	102,082	1,085,712		18,770	66,239	4,430,197	78,692	6,484,463	1,975,674	4,546	4,070				476	40	
37,200	30,493	159,455		3,500	7,704	513,641	15,435	900,870	371,794	220	35				185	41	
206,169	164,824	1,089,177	8,268	9,626	269,545	1,297,212	55,292	3,849,053	2,496,549	1,277	425		25		827	42	
168,839	122,901	978,932	15,656	9,301	48,957	1,203,061	29,469	3,505,720	2,183,190	820	300	25	29		466	43	
25,610	19,845	79,363		1,584	3,194	186,537	3,735	406,894	216,622	182	35	25			122	44	
1,125		15,128		597	146	24,924	887	75,221	49,410	31			29		2	45	
142,104	103,056	584,441	15,281	7,120	45,617	1,081,600	24,847	3,023,605	1,917,153	607	265				342	46	
88,205	73,556	324,299		29,075	68,209	488,493	14,962	1,380,233	876,778	125					125	47	
60,831	15,013	113,681		840	105,661	595,751	17,182	1,203,678	590,745	815	810				5	48	
260,501	505,445	446,461	105	47,712	190,094	2,071,500	41,667	4,888,548	2,775,381	915	671		33		211	49	
160,077	94,738	373,608	89	14,244	56,169	1,033,507	61,183	2,219,109	1,124,419	745	548				197	50	
4,805,813	11,347,195	30,571,410	618,802	549,727	3,199,171	50,268,394	1,367,905	119,528,022	67,901,723	32,660	1,995	19,000	83		11,582	18,286	51
142,426	34,935	713,124	1,110	48,263	4,060	458,189	42,081	2,411,328	1,911,058	1,142			8		1,134	52	
59,326	30,004	93,492	1,400	2,022	23,108	320,796	3,759	720,168	395,613	46					46	53	
19,355	5,158	162,062		4,134	4,432	59,242	34,074	342,090	248,774	172					172	54	
1,255,311	1,966,567	11,755,850	234	22,605	1,056,644	22,959,101	685,054	45,741,267	22,097,112	16,152	3,465	200	727	50	11,710	1,587	55
59,112	18,646	80,547		11,421	2,937	634,108	9,065	1,040,805	367,642	282			100		182	56	
133,794	108,304	947,510	12,722	24,029	73,171	1,162,232	71,575	3,235,604	2,001,797	882	35				847	57	
376,295	203,355	1,386,968	11,973	59,559	132,374	1,530,363	40,441	4,794,095	3,223,291	1,372	725				647	58	
71,087	58,347	311,349	315	17,994	420	165,066	1,893	826,342	659,383	27					27	59	
271,540	247,634	1,185,578	4,960	73,725	104,728	3,281,992	44,307	6,431,059	3,104,760	1,309	134				1,175	102	60
149,360	168,665	393,133	2,451	37,036	2,181,021	84,315	3,779,743	1,514,407	1,514,407	1,716	1,595		6		1,115	1,720	61
186,851	208,258	725,793	128,472	61,314	44,559	2,457,532	16,922	4,679,423	2,204,969	230					230	62	
49,445	42,188	190,658	13,000	14,509	4,124	329,943	9,748	837,753	498,062	124					124	63	
8,100	9,948	98,650	3,000	10,375	338	157,717	3,036	485,907	325,154	35					35	64	
129,306	156,122	427,485	112,472	36,370	40,097	1,969,872	4,138	3,355,793	1,381,753	71					71	65	
160,862	172,492	754,809	60	82,514	73,501	3,582,444	140,242	6,159,817	2,437,131	3,090	580	175			2,335	66	
16,464	31,711	73,643	938	16,358	2,047	170,495	3,127	349,336	17								

MANUFACTURES—ILLINOIS.

TABLE 43.—DETAILED STATEMENT OF ALL INDUSTRIES

INDUSTRY AND CITY.		Number of establishments.	PERSONS ENGAGED IN THE INDUSTRY.							WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.						Capital.
			Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc.		Wage earners.			Total.	16 and over.		Under 16.		
						Male.	Female.	Average number.	Number, 15th day of—			Male.	Female.	Male.	Female.	
									Maximum month.	Minimum month.						
1	Food preparations, not elsewhere specified.	134	5,717	110	305	810	425	4,061	.....	.....	4,125	2,790	1,305	3	21	Dollars. 20,949,577
2	Breadstuff preparations, cereals and breakfast foods.	9	350	4	16	46	33	251	Se 330 Fe 181	263	172	91	.....	.....	.....	2,360,206
3	Lard compounds and other substitutes.	5	834	1	21	77	18	717	Au 930 Mh 341	755	577	178	.....	.....	.....	4,928,572
4	Macaroni, vermicelli, and noodles.	25	518	51	20	35	30	382	Oc 459 Au 309	439	274	151	.....	14	3	1,410,220
5	Meat products, not elsewhere specified.	7	1,236	3	39	157	22	1,015	Mh 1,476 My 687	895	344	547	1	.....	.....	4,182,531
6	Peanut butter.	5	93	3	10	5	5	70	De 86 Fe 57	79	31	48	.....	.....	.....	386,402
7	Sweetening sirups, other than cane.	5	381	1	27	42	12	299	Oc 357 Je 238	342	294	48	.....	.....	.....	3,089,806
8	All other, for human consumption.	57	975	47	84	132	99	613	Jy 645 My 583	641	418	217	2	4	.....	5,083,961
9	For animals and fowls.	21	1,330	6	88	316	206	714	Fe 749 No 672	711	686	25	.....	.....	.....	8,508,199
10	Foundry and machine-shop products.	870	55,196	503	2,751	3,908	2,155	45,879	.....	51,742	49,817	1,641	267	17	.....	191,005,914
11	Boiler shops.	39	1,774	38	90	103	38	1,510	Oc 1,782 Ja 676	1,770	1,761	9	.....	.....	.....	6,040,376
12	Foundries.	110	13,297	48	521	506	256	11,966	De 13,952 Je 10,342	14,178	13,787	343	47	1	.....	34,557,499
13	Machine shops.	675	33,895	406	1,900	2,914	1,660	27,015	De 29,980 Ap 25,079	29,662	28,343	1,008	208	13	.....	130,301,605
14	Machine shop and foundry combined.	46	6,230	16	240	385	201	5,388	Ja 6,378 My 4,590	6,132	5,920	191	12	3	.....	20,106,434
15	Foundry supplies.	9	237	2	20	46	21	148	Je 157 Ja 132	151	147	4	.....	.....	.....	875,394
16	Fur goods.	123	981	123	69	62	57	670	No 706 Mh 508	742	392	350	.....	.....	.....	3,586,070
17	Furnishing goods, men's.	34	1,942	22	70	188	96	1,560	.....	1,704	183	1,499	5	17	.....	4,525,170
18	Neckwear.	26	1,056	22	48	153	52	781	De 876 Ja 694	895	131	745	3	16	.....	2,785,922
19	All other.	8	886	.....	22	35	44	785	Oc 819 Je 753	809	52	754	2	1	.....	1,729,248
20	Furniture.	286	14,374	186	680	755	459	12,294	.....	14,044	13,101	828	110	5	.....	42,588,346
21	Wood furniture, including rattan and willow.	202	11,102	133	491	547	307	9,624	De 11,013 Ap 7,613	11,093	10,281	721	86	5	.....	33,938,510
22	Metal furniture.	16	1,207	4	70	117	87	929	De 1,063 Fe 775	1,062	1,025	36	1	.....	.....	4,003,707
23	Store and office fixtures.	68	2,065	49	119	91	65	1,741	No 1,870 Ja 1,579	1,889	1,795	71	23	.....	.....	4,646,129
24	Furs, dressed.	4	68	1	8	1	1	57	Mh 72 Au 43	51	45	6	.....	.....	.....	114,566
25	Galvanizing.	8	151	14	18	10	7	102	Ja 107 Jy 93	108	107	1	.....	.....	.....	863,098
26	Gas and electric fixtures.	40	1,792	11	106	135	92	1,448	.....	1,633	1,218	365	35	15	.....	4,462,083
27	Electric fixtures.	14	537	3	41	42	33	418	No 493 Ja 379	472	386	54	25	7	.....	1,371,844
28	Combination gas and electric fixtures.	18	860	6	40	77	38	699	De 793 My 685	704	721	28	10	5	.....	2,037,064
29	Gas and other fixtures.	8	395	2	25	16	21	331	No 389 Jy 271	397	111	283	.....	3	.....	1,053,185
30	Gas, illuminating and heating.	70	7,737	.....	282	1,972	1,053	4,430	Ja 4,086 Se 4,258	4,479	4,435	44	.....	.....	.....	172,854,890
31	Gas machines and gas and water meters.	21	948	3	40	163	71	665	.....	737	727	9	1	.....	.....	3,994,417
32	Gas meters and water meters.	4	121	.....	13	17	8	83	Au 99 Mh 63	94	89	5	.....	.....	.....	489,630
33	All other.	17	827	3	33	146	68	582	Au 652 Ap 487	643	638	4	1	.....	.....	3,444,787
34	Glass.	14	4,370	4	100	70	65	4,065	Fe 4,291 De 3,825	4,187	3,670	481	31	5	.....	13,008,050
35	Glass, cutting, staining, and ornamenting.	49	712	27	52	18	38	577	.....	601	427	150	14	4	.....	1,057,870
36	Decalcomania work on glass.	4	37	2	3	.....	2	30	No 40 Ap 24	39	37	2	.....	.....	.....	41,340
37	All other.	45	675	25	49	18	36	547	Au 573 Ja 520	562	390	154	14	4	.....	1,010,539
38	Gloves and mittens, cloth, not including gloves made in textile mills.	14	781	10	21	26	21	703	De 864 Ap 563	807	98	648	9	52	.....	1,450,703
39	Gloves and mittens, leather.	31	1,379	27	49	38	23	1,239	De 1,428 Ap 1,132	1,284	358	772	75	70	.....	2,241,681
40	Glue, not elsewhere specified.	11	1,831	6	64	138	40	1,583	Fe 1,665 Jy 1,443	1,587	1,408	179	.....	.....	.....	7,501,781
41	Gold, leaf and foil.	6	155	3	11	1	7	133	De 135 Je 131	135	71	56	5	3	.....	117,098
42	Hair work.	19	228	14	16	20	11	161	Oc 170 Ja 148	164	41	121	.....	.....	.....	472,612
43	Hand stamps.	27	337	19	36	20	29	233	Se 251 Fe 224	241	197	30	6	2	.....	569,960
44	Hardware.	84	5,820	41	304	319	242	4,914	.....	5,570	4,703	789	70	8	.....	20,187,969
45	Locks.	10	234	2	22	9	9	102	Au 227 Ja 125	221	192	25	4	.....	.....	467,075
46	Builders' hardware.	20	1,932	12	79	115	65	1,661	De 2,003 My 1,339	2,005	1,572	412	20	1	.....	6,317,846
47	Vehicle hardware.	6	146	3	15	6	7	115	Au 133 Ja 73	131	104	24	.....	.....	.....	339,076
48	All other.	48	3,508	24	188	189	161	2,946	De 3,192 My 2,783	3,213	2,835	328	46	4	.....	13,023,972
49	Hat and cap materials.	7	53	5	3	3	2	40	(*) 40 (*) 40	40	15	23	1	1	.....	115,882
50	Hats and caps, other than felt, straw, and wool.	47	844	51	49	50	15	679	Oc 788 Mh 528	745	455	285	2	3	.....	1,674,493
51	Hats, fur-felt.	5	55	1	8	9	1	36	Se 38 Ja 34	34	21	13	.....	.....	.....	140,288
52	Hats, straw.	12	246	12	24	9	10	191	No 229 Je 155	229	68	160	.....	1	.....	353,328
53	House-furnishing goods, not elsewhere specified.	51	1,114	32	80	98	52	843	.....	942	403	503	17	19	.....	2,649,062
54	Comforts and quilts.	10	71	9	5	3	4	50	No 63 My 41	58	23	34	.....	1	.....	258,251
55	Feather pillows and beds.	6	183	2	21	44	8	108	Oc 111 Ja 100	110	82	27	1	.....	.....	885,717
56	Mops and dusters.	11	301	4	28	32	21	216	Oc 240 Mh 184	226	87	129	3	7	.....	488,106
57	All other.	24	559	17	35	19	19	469	De 555 Ja 414	548	211	313	13	11	.....	1,016,989
58	Ice, manufactured.	154	2,140	42	255	98	64	1,681	Au 2,303 Ja 1,084	1,592	1,572	20	.....	.....	.....	17,697,626
59	Ink, printing.	11	143	6	22	23	13	79	De 88 Ja 72	88	85	1	2	.....	.....	787,597
60	Instruments, professional and scientific.	33	4,200	22	122	189	246	3,621	Au 3,860 Ja 3,314	3,674	2,891	770	12	1	.....	13,091,463
61	Iron and steel, blast furnaces.	5	2,436	.....	97	151	59	2,129	Ja 2,571 Oc 1,219	2,418	2,417	1	.....	.....	.....	57,167,029
62	Iron and steel, steel works and rolling mills.	32	23,483	.....	935	1,873	498	20,177	Fe 25,795 Oc 13,330	21,706	21,676	124	6	.....	.....	156,775,176
63	Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills.	13	1,048	1	67	56	18	906	Ja 1,052 My 798	945	818	126	1	.....	.....	4,152,864

¹ Includes water wheels and turbines (irrespective of ownership of water supply), and water motors (operated by water from city mains).

² Chiefly electric motors operated by rented (or purchased) current; other power included (chiefly shaft-belt or transmitted power from neighboring power plants).

COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

EXPENSES.								Value of products.	Value added by manufacture.	POWER.						
Salaries and wages.			For contract work.	Rent and taxes.		For materials.				Primary horsepower.					Electric horsepower generated in establishments reporting.	
Officials.	Clerks, etc.	Wage earners.		Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.			Total.	Owned.					Rented. ²
											Steam engines (not turbines).	Steam turbines.	Internal-combustion engines.	Water power. ¹		

THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.

Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.
1,395,103	1,686,538	4,161,741	72,654	249,104	864,404	79,703,334	727,951	94,240,307	13,809,022	18,767	6,499	240	160	.....	11,868	1,608	1
103,580	150,900	203,390	400	2,725	27,904	4,102,056	72,829	4,930,879	756,194	3,385	760	40	.....	.....	2,585	.....	2
68,864	135,791	818,807	.....	23,608	30,487	18,288,857	206,383	19,403,450	908,210	2,745	2,514	.....	.....	.....	231	294	3
57,331	73,259	344,330	.....	29,465	21,930	2,042,044	69,337	3,080,557	969,176	1,532	162	.....	.....	.....	1,370	.....	4
210,737	263,446	926,079	.....	48,224	154,597	8,823,085	70,826	11,532,816	2,638,905	774	147	.....	.....	.....	627	.....	5
45,057	14,457	70,810	1,631	10,371	8,477	913,804	10,532	1,131,914	207,578	175	.....	.....	.....	.....	175	.....	6
106,917	60,872	279,850	58	12,400	183,248	5,316,912	77,561	6,009,941	1,115,468	1,355	665	200	.....	.....	520	29	7
432,951	401,161	669,643	39,825	91,296	179,970	9,341,356	83,034	13,042,206	3,617,810	1,414	491	.....	160	.....	763	580	8
369,666	586,652	848,232	30,740	31,105	252,725	30,875,220	137,649	34,608,544	3,505,675	7,367	1,760	.....	.....	.....	5,597	705	9
11,625,164	8,953,560	50,660,135	994,138	1,049,581	11,215,433	93,125,717	5,217,008	235,403,626	137,060,811	96,821	24,220	8,658	1,456	944	61,543	28,460	10	
415,208	257,104	2,122,612	27,209	18,145	663,318	4,164,679	149,223	9,106,448	4,792,546	6,871	733	1,900	62	.....	3,176	.....	11
2,228,713	1,016,220	10,719,023	123,622	101,488	1,791,455	18,680,191	2,502,552	52,109,714	31,026,971	25,250	6,009	4,443	60	245	14,502	11,137	12	
7,750,589	6,855,608	34,388,283	695,733	907,747	6,918,901	62,241,991	1,954,479	152,128,532	87,932,062	55,474	14,395	2,170	1,301	565	37,043	18,729	13	
1,230,655	824,634	6,730,217	147,532	22,201	1,841,759	8,138,866	610,844	22,058,932	13,309,232	10,226	3,092	145	33	134	6,822	3,603	14	
119,555	125,127	181,172	1,020	5,478	58,836	1,354,504	30,075	2,241,823	856,644	633	300	.....	150	.....	183	50	15
241,099	152,624	1,008,805	43,167	154,490	110,223	4,506,983	15,067	8,112,908	3,500,853	158	700	.....	.....	.....	158	.....	16
265,912	475,185	1,006,797	6,084	56,642	121,053	4,727,503	27,001	8,635,094	3,780,585	983	.....	.....	.....	.....	233	177	17
201,288	419,014	729,189	0,084	47,411	58,052	3,588,523	10,900	6,149,498	2,550,075	562	400	.....	.....	.....	162	177	18
64,424	56,151	277,608	.....	9,231	63,001	1,138,085	16,101	2,385,596	1,280,510	421	300	.....	.....	.....	121	.....	19
2,703,944	2,053,405	14,142,456	618,989	535,551	1,487,455	27,523,924	606,415	60,770,771	32,580,432	23,467	15,003	330	211	120	7,803	4,786	20	
1,985,323	1,551,982	11,088,808	596,856	366,370	1,232,494	21,174,075	513,192	47,144,566	25,466,699	18,423	13,040	330	57	50	4,946	4,664	21	
324,755	297,117	1,068,664	7,411	23,349	72,471	2,990,900	49,504	5,715,541	2,675,137	1,318	293	.....	23	.....	1,002	.....	22
398,866	204,300	1,984,984	14,722	145,832	182,490	3,358,349	103,719	7,910,064	4,448,596	3,726	1,670	.....	131	70	1,855	222	23
18,021	2,706	70,378	.....	2,260	971	31,044	5,124	194,169	158,001	84	.....	.....	40	.....	44	.....	24
80,227	23,343	129,384	.....	350	35,270	300,994	27,906	780,071	451,171	94	25	.....	.....	.....	69	.....	25
350,750	281,017	1,490,881	2,010	111,153	63,216	3,214,094	84,520	6,757,429	3,458,806	2,034	1,125	.....	10	160	739	496	26
129,415	108,266	395,714	.....	37,923	16,658	779,039	18,904	2,002,292	1,204,299	593	250	.....	.....	.....	343	.....	27
130,704	125,607	819,221	.....	54,846	37,332	1,380,220	38,345	3,317,437	1,898,872	1,330	875	.....	.....	160	295	496	28
90,637	47,114	275,946	2,010	18,414	9,226	1,054,785	27,280	1,437,700	355,635	111	.....	.....	10	.....	101	.....	29
780,539	3,265,556	5,372,255	164,478	347,309	1,492,615	3,178,894	14,713,268	36,930,423	19,038,261	21,912	14,869	6,187	226	.....	630	1,133	30
134,565	343,653	714,142	1,300	14,774	30,760	1,497,785	21,331	2,963,147	1,444,031	454	30	.....	128	.....	296	59	31
35,110	41,966	105,896	1,300	3,120	4,721	137,706	4,198	371,891	229,987	106	.....	.....	115	.....	51	59	32
99,455	301,087	608,246	.....	11,654	32,039	1,300,079	17,133	2,591,256	1,214,044	288	30	.....	13	.....	245	.....	33
410,890	131,426	3,740,590	.....	3,851	1,485,406	3,451,127	2,108,152	18,244,717	12,685,438	10,594	4,457	2,500	1,000	.....	2,637	2,822	34
141,539	65,657	485,118	532	50,797	14,741	1,150,354	22,891	2,307,573	1,134,323	221	.....	.....	.....	.....	221	.....	35
3,183	2,378	35,765	.....	5,120	101	22,450	992	88,257	64,806	33	.....	.....	.....	.....	33	.....	36
133,356	63,279	449,353	532	45,077	14,580	1,127,895	21,899	2,219,318	1,069,522	133	80	.....	.....	.....	189	.....	37
58,494	44,816	365,024	15,082	10,756	80,718	1,265,570	13,011	2,413,310	1,134,729	254	.....	.....	.....	.....	174	15	38
104,867	80,809	1,023,855	1,547	18,910	146,765	3,047,167	26,882	5,422,794	2,348,745	376	50	.....	.....	.....	326	15	39
196,323	214,530	1,547,306	.....	5,900	222,952	4,417,469	522,110	9,157,094	4,217,515	7,477	5,020	2,400	.....	.....	57	6,623	40
20,491	8,117	130,999	6,369	2,880	2,919	253,163	2,813	470,429	214,463	34	.....	.....	.....	.....	34	.....	41
39,622	34,526	101,565	2,842	13,081	1,110	297,140	5,228	610,963	308,495	67	50	.....	.....	.....	7	.....	42
127,308	60,919	250,056	9,000	26,008	10,303	346,255	10,556	1,013,709	659,658	105	35	.....	.....	.....	130	.....	43
1,023,612	870,848	5,617,321	11,952	103,118	1,204,847	8,373,315	301,950	22,442,043	13,797,372	9,551	1,840	35	45	528	7,108	650	44	
88,487	39,179	188,030	.....	8,380	6,701	242,187	8,393	993,994	448,354	173	.....	.....	.....	.....	173	.....	45
283,180	355,158	1,850,998	.....	40,669	550,711	2,315,007	93,655	7,041,110	4,632,448	5,107	690	.....	.....	400	4,017	150	46
71,508	9,989	130,337	.....	12,872	6,892	333,096	4,945	733,622	395,611	118	.....	.....	.....	.....	103	.....	47
597,437	460,522	3,447,956	11,952	41,197	640,743	5,433,055	194,963	13,938,977	8,290,959	4,153	1,150	35	30	123	2,815	500	48	
7,925	4,918	36,219	.....	4,304	1,147	257,107	1,083	380,571	122,381	18	.....	.....	.....	.....	18	.....	49
144,338	159,749	896,882	1,071	45,641	10,717	2,394,070	14,180	4,190,613	1,842,363	136	.....	.....	.....	.....	136	.....	50
24,158	23,995	44,192	18,000	4,830	4,142	187,553	1,674	344,396	155,159	40	25	.....	.....	.....	15	.....	51
50,763	35,143	194,410	.....	24,503	2,166	536,258	5,854	928,209	388,066	26	.....	.....	.....	.....	26	.....	52
281,055	267,788	701,463	7,018	87,664	119,074	3,932,726	40,911	6,336,794	2,363,157	1,247	366	.....	80	.....	852	67	53
11,522	10,603	53,654	1,000	11,490	5,676	396,078	2,038	522,252	183,536	55	.....	.....	.....	.....	55	.....	54
110,331	110,739	119,709	.....	26,022	30,667	946,721	16,474	1,604,333	641,138	539	345	.....	.....	.....	194	22	55
62,345	85,082	155,237	.....	19,091	6,050	640,903	4,016	1,165,314	510,396	116	20	.....	.....	.....	96	45	56
90,807	61,364	372,893	6,018	30,161	76,091	2,008,424	18,383	3,054,895	1,025,088	537	.....	.....	.....	.....	507	.....	57
820,353	153,395	2,226,295	2,805	23,503	464,795	998,532	1,545,985	10,093,293	7,578,745	41,110	16,095	2,185	27	30	22,773	1,278	58	
156,555	62,019	103,142	.....	20,735	24,274	743,094	14,571	1,391,492	633,541	980	.....	.....	.....	.....	980	.....	59
504,848	463,955	4,283,945	2,444	54,218	552,005	5,854,084	128,659	14,880,789	8,898,046	3,048	150	.....	25	.....	2,873	410	60
393,135	396,598	3,846,614	.....	2,929,894	30,839,824	20,689,934	64,792,411	13,235,653	80,118	54,670	10,148	15,300	.....	.....	27,795	35,155	61
3,769,826	3,9																	

TABLE 43.—DETAILED STATEMENT OF ALL INDUSTRIES.

INDUSTRY AND CITY.		Number of establishments.	PERSONS ENGAGED IN THE INDUSTRY.							WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.						Capital.	
			Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc.		Wage earners.			Total.	16 and over.		Under 16.			
						Male.	Female.	Average number.	Number, 15th day of—			Male.	Female.	Male.	Female.		
									Maximum month.	Minimum month.							
1	Iron and steel, doors and shutters....	7	530	.....	31	34	11	400	Ja	528	Se	427	403	403	.....	Dollars.
2	Iron and steel forgings, not made in steel works or rolling mills.	24	2,638	2	144	113	51	2,328	Ja	2,820	Je	1,745	2,324	2,277	47	1,213,798	
3	Iron and steel, nails and spikes, cut and wrought, including wire nails, not made in steel works or rolling mills.	7	218	4	15	29	7	163	No	180	Fe	154	179	124	55	12,085,072	
4	Iron and steel, tempering and welding.	18	151	17	16	13	9	96	De	110	Mh	86	109	107	1	1,094,384	
5	Japaning.....	3	91	2	7	2	2	80	My	80	Fe	70	109	81	1	344,027	
6	Jewelry.....	78	1,328	68	77	108	83	922	De	1,113	Mh	910	1,110	889	209	40,034	
7	Jewelry and instrument cases.....	8	247	4	15	1	5	222	No	230	Ja	211	230	100	12	5,098,896	
8	Knit goods.....	58	5,538	31	147	104	161	5,035	No	5,213	Ap	4,940	5,148	1,441	3,520	250,411	
9	Labels and tags.....	13	914	7	42	89	82	694	Oc	768	Jy	612	750	448	59	10,459,583	
10	Lamps and reflectors.....	27	1,479	27	7	3	121	1,190	De	1,490	Mh	952	1,511	827	15	2,473,797	
11	Lapidary work.....	4	57	1	7	3	5	41	Je	45	Ja	36	43	30	2	2,888,862	
12	Leather goods, not elsewhere specified	41	836	27	43	40	33	687	No	763	Mh	638	735	519	18	121,740	
13	Leather, tanned, curried, and finished	29	4,801	25	150	137	55	4,434	No	4,694	Ja	4,144	4,617	4,046	13	1,630,333	
14	Lime.....	11	443	11	24	23	7	378	Jy	417	Ja	304	387	338	1	38,069,464	
15	Liquors, distilled, grain alcohol.....	6	386	5	17	36	6	327	Oc	433	Jy	221	387	450	.....	5,542,543
16	Liquors, malt.....	61	3,046	5	337	441	67	2,796	Jy	3,243	De	2,273	2,280	2,245	32	6,529,144	
17	Liquors, vinous.....	4	4	4	4	4	4	4	4	4	4	4	4	4	3	43,631,252	
18	Lithography.....	31	1,380	10	91	131	65	1,085	De	1,133	Ja	1,035	1,135	870	247	3,425	
19	Looking-glass and picture frames.....	60	2,282	37	124	104	73	1,944	Se	2,097	Ja	1,597	2,022	1,697	27	4,187,623	
20	Lumber and timber products.....	163	1,949	187	78	45	23	1,616	De	2,199	Ap	1,240	2,457	2,315	141	3,237,085	
21	Lumber, planing-mill products, not including planing mills connected with sawmills.	269	6,320	176	414	408	175	5,147	No	5,786	Fe	4,216	5,663	5,518	96	5,423,864	
22	Machine tools.....	28	3,841	6	145	278	139	3,273	De	3,751	Je	2,713	3,764	3,624	138	24,059,331	
23	Malt.....	10	445	.....	34	26	7	378	Au	523	Ja	244	406	406	.....	14,323,637
24	Marble and stone work.....	247	1,619	266	117	109	46	1,081	De	1,133	Ja	1,035	1,202	1,197	3	7,385,657	
25	Monuments and tombstones.....	169	809	186	51	76	31	465	My	515	Ja	383	1,202	1,197	3	5,517,647	
26	All other.....	78	810	80	66	33	15	616	Jy	728	Ja	430	718	715	2	2,450,157	
27	Mattresses and spring beds, not elsewhere specified.	72	1,901	64	80	145	41	1,671	Oc	1,873	Ja	1,103	1,790	1,304	450	3,067,490	
28	Millinery and lace goods, not elsewhere specified.	121	5,460	106	190	178	156	4,830	.....	.....	.....	.....	5,115	1,041	3,976	4,084,908
29	Embroideries.....	42	824	44	56	40	26	658	Oc	770	Ja	533	680	119	541	5,942,807	
30	Trimmed hats and hat frames.....	50	4,090	39	108	116	101	3,735	Fe	4,165	Je	3,088	3,987	837	3,083	1,021,727	
31	Dress and cloak trimmings, braids, and fringes.	4	79	4	3	.....	2	70	Au	77	Mh	61	66	14	50	4,219,503
32	Women's neckwear.....	7	177	2	9	11	11	144	Oc	152	Ja	133	144	14	129	96,448	
33	All other.....	18	281	17	14	11	16	223	No	245	Fe	204	238	57	173	195,028	
34	Mineral and soda waters.....	275	1,254	293	121	84	37	719	Au	998	Ja	515	701	650	34	410,101	
35	Minerals and earths, ground or otherwise treated.	26	917	5	69	67	82	694	Se	757	Ap	645	726	718	8	5,542,015	
36	Mirrors, framed and unframed, not elsewhere specified.	12	283	16	20	9	15	223	Oc	285	Jy	125	266	262	4	962,280	
37	Models and patterns, not including paper patterns.	88	649	98	34	10	17	490	De	533	Ja	432	530	504	13	689,598	
38	Motorcycles, bicycles, and parts.....	7	1,179	.....	33	35	29	1,082	My	1,262	Fe	416	1,137	1,097	40	2,456,460
39	Mucilage, paste, and other adhesives, not elsewhere specified.	13	170	8	18	17	24	103	Jy	117	Mh	87	104	58	43	4,488,881	
40	Musical instruments and materials, not specified.	23	766	8	35	27	27	669	No	735	Ja	584	717	635	55	1,416,943	
41	Musical instruments, organs.....	10	317	2	15	13	14	273	Jy	291	Ja	242	290	246	39	925,285	
42	Musical instruments, pianos.....	33	7,781	7	168	337	278	6,991	Oc	7,439	Ja	6,417	7,539	6,620	721	42,005,469	
43	Musical instruments, piano and organ materials.	9	1,402	1	41	19	30	1,311	Au	1,391	Ja	1,214	1,305	808	465	2,478,296	
44	Needles, pins, and hooks and eyes.....	3	465	20	57	37	351	No	381	Se	338	382	108	105	7	1,263,708	
45	Oil, not elsewhere specified.....	16	266	4	37	84	40	101	Au	118	Ja	79	124	119	5	2,081,227	
46	Oleomargarine and other butter substitutes.	9	1,603	85	170	127	1,311	Ja	1,594	Je	947	1,628	1,253	269	6	12,506,017	
47	Optical goods.....	22	544	8	46	59	55	376	Mh	420	Jy	277	397	298	91	1,038,670	
48	Paints.....	50	4,365	15	271	998	441	2,640	De	3,002	Ap	2,482	2,825	2,539	234	27,648,999	
49	Paper and wood pulp.....	19	2,002	81	62	28	1	1,831	Jy	1,941	Mh	1,087	1,973	1,893	79	13,928,744	
50	Paper goods, not elsewhere specified.	20	786	4	56	117	66	543	Mh	610	No	475	539	340	183	3	6,570,855
51	Patent medicines and compounds.....	208	3,096	124	301	964	708	1,599	1,675	842	768	18	16,991,895
52	Patent and proprietary medicines	148	2,552	90	208	673	547	1,039	De	1,121	Ja	973	1,100	559	493	13	11,915,328
53	Patent and proprietary compounds, not elsewhere specified.	60	1,144	34	98	291	161	560	Fe	654	Ap	502	575	283	275	5	5,076,067
54	Paving materials.....	32	1,136	11	73	71	22	959	My	1,131	Ja	611	980	980	.....	7,923,102
55	Perfumery and cosmetics.....	75	1,390	40	129	112	399	710	De	815	Ja	605	815	207	574	10	4,371,602
56	Petroleum, refining.....	13	2,932	2	84	313	85	2,448	No	2,589	Ja	2,354	2,558	2,507	51	36,342,555	
57	Photographs and graphophones.....	36	2,225	12	122	91	81	1,919	De	2,649	Ja	1,245	2,667	2,475	171	16	6,570,855
58	Photo-engraving.....	31	1,290	11	84	177	65	962	De	1,018	Ja	885	1,007	931	55	20	1,711,406
59	Photographic apparatus.....	12	790	5	43	89	47	601	No	671	Ja	508	643	543	95	1,429,812
60	Photographic materials.....	13	584	5	33	86	32	478	Ap	503	Se	451	442	221	213	8	1,560,950
61	Pickles, preserves, and sauces.....	68	2,731	44	151	183	93	2,353	Oc	1,338	Fe	915	2,718	1,345	1,347	10	11,008,502
62	Preserves.....	16	1,243	2	65	70	33	1,072	Oc	1,238	Ja	915	1,179	452	723	4	5,048,782
63	Pickles and sauces.....	52	1,483	42	86	107	65	1,183	Oc	1,845	Jy	784	1,539	893	624	10	5,959,720
64	Pipes, tobacco.....	5	129	2	8	16	5	98	De	104	Jy	93	104	73	30	438,869	
65	Plumbers' supplies, not elsewhere specified.	18	2,576	7	112	233	128	2,096	No	2,498	Ap	1,704	2,490	2,263	222	5	11,588,348
66	Pocketbooks.....	10	122	9	9	11	10	83	No	111	Ja	87	99	59	40	252,604
67	Pottery.....	14	746	4	42	32	16	652	Ap	774	Au	459	770	624	140	5	2,760,691

1 Includes water wheels and turbines (irrespective of ownership of water supply), and water motors (operated by water from city mains).

2 Chiefly electric motors operated by rented (or purchased) current; other power included (chiefly shaft-hell or transmitted power from neighboring power plants).

[illegible][illegible]

^a Same number reported for one or more other months.

MANUFACTURES—ILLINOIS.

TABLE 43.—DETAILED STATEMENT OF ALL INDUSTRIES

INDUSTRY AND CITY.	Number of establishments	PERSONS ENGAGED IN THE INDUSTRY.								WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.				Capital.	
		Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc.		Wage earners.		Total.	16 and over.		Under 16.			
					Male.	Female.	Average number.	Number, 15th day of—		Male.	Female.	Male.	Female.		
								Maximum month.							Minimum month.

THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.

1	Poultry, killing and dressing, not done in slaughtering and meat-packing establishments.	23	242	16	19	14	11	182	De	373	Mh	85	287	227	59	1	Dollars. 476,830	
2	Printing and publishing, book and job.	1,240	28,861	1,021	1,540	2,290	2,371	21,039					23,775	17,386	5,518	514	357	70,260,836
3	Job printing.	1,065	25,059	923	1,225	1,446	1,077	20,388	De	22,104	Ap	19,093	22,419	10,412	5,102	491	354	53,872,001
4	Book publishing and printing.	14	591	4	37	106	34	410	De	435	Ja	397	441	296	143	2	1,415,009	
5	Book publishing without printing.	135	2,527	71	239	999	1,230	288	Oc	309	Fe	252	252	122	123	4	3	11,067,177
6	Linotype work and typesetting.	20	684	23	39	30	30	553	Se	617	Ja	483	663	556	90	17	3,900,049	
7	Printing and publishing, music.	26	241	18	22	24	66	111	De	126	Ja	99	124	64	56	4	677,430	
8	Printing and publishing, newspapers and periodicals.	1,204	19,604	891	1,544	3,612	3,437	10,120					10,579	8,037	1,847	607	88	54,699,750
9	Printing and publishing.	91	6,718	45	304	1,250	1,093	3,966	De	4,017	Ja	3,922	4,121	3,430	358	317	16	25,214,534
10	Printing, publishing, and job printing.	738	9,130	711	520	1,458	796	5,645	De	5,836	Ap	5,620	5,914	4,339	1,226	288	61	21,480,260
11	Publishing without printing.	375	3,756	135	690	904	1,548	509	No	547	Jy	478	544	268	263	2	11	7,398,956
12	Printing materials.	11	440	6	24	37	34	339	No	444	Ja	242	315	279	35	1	6,298,897	
13	Pumps, not including power pumps.	19	560	7	49	23	24	457	Oc	476	Ja	439	366	332	34	1	1,712,733	
14	Pumps, steam and other power.	10	597	2	43	49	30	473	De	544	Ap	432	544	538	10	6	2,397,642	
15	Refrigerators.	9	349	4	16	12	8	309	Ja	337	Ja	281	340	340	12	1	898,984	
16	Regalia, and society badges and emblems.	14	303	7	22	32	25	217	Ja	231	Ap	197	234	76	155	3	557,729	
17	Roofing materials.	25	3,618	1	169	539	197	2,722	De	3,125	Fe	2,074	3,164	3,029	133	2	18,161,631	
18	Rubber tires, tubes, and rubber goods, not elsewhere specified.	20	795	5	49	52	39	650	Jy	762	Ja	532	750	581	105	3	1	2,790,374
19	Saddlery and harness.	183	1,241	206	40	69	33	887	Ja	1,042	Jy	782	996	999	56	1	3,890,973	
20	Sausage, not made in slaughtering and meat-packing establishments.	54	980	55	46	52	31	706					896	591	245	1	3,971,116	
21	Sausage.	48	619	50	30	39	20	480	Jy	496	Fe	453	495	434	61	1	1,433,348	
22	Sausage casings.	6	301	5	16	13	11	316	Jy	361	Fe	286	341	187	184	1	1,737,768	
23	Scales and balances.	16	845	7	52	61	36	699	Mh	784	De	632	821	784	27	10	2,917,400	
24	Screws, machine.	24	2,081	10	128	54	78	1,811	No	1,993	My	1,672	2,017	1,727	278	12	8,558,812	
25	Sewing machines and attachments.	5	2,501	2	76	280	177	1,990	De	2,275	Jy	1,438	2,276	2,054	194	27	1	8,115,991
26	Shipbuilding, wooden, including boat building.	9	139	8	5	3	1	122	Je	181	Au	96	141	141	1	1	479,355	
27	Shirts.	30	1,002	13	56	49	42	842	De	920	Ja	786	941	159	765	1	16	2,304,813
28	Show cases.	9	250	12	16	12	5	205	De	226	Ja	164	228	218	8	2	611,000	
29	Signs and advertising novelties.	109	2,846	76	189	452	246	1,883					2,103	1,161	863	36	43	6,507,982
30	Signs, electric and other.	69	941	52	86	182	58	563	De	597	Ja	500	647	566	78	3	2,728,484	
31	Advertising novelties.	40	1,905	24	103	270	188	1,320	De	1,453	Ja	1,111	1,456	595	785	33	43	3,779,498
32	Silversmithing and silverware.	5	53	3	9	2	3	30	Oc	42	Ja	33	41	40	1	1	111,466	
33	Slaughtering and meat packing.	72	62,990	31	614	5,541	1,625	54,179	Ja	65,114	My	50,048	53,973	47,248	6,703	17	5	430,375,561
34	Smelting and refining, zinc.	7	4,606	1	110	148	24	4,224	Ja	4,791	No	3,622	4,085	4,084	1	1	29,894,439	
35	Smelting and refining, not from the ore.	17	557	16	24	25	13	479	Se	516	Ja	440	519	512	6	1	4,029,477	
36	Soap.	29	3,039	10	123	462	174	2,270	Se	2,507	Mh	1,959	2,493	1,530	892	12	59	14,007,810
37	Sporting and athletic goods.	33	602	21	43	37	30	471	Jy	572	Ja	409	581	431	141	4	5	1,533,149
38	Springs, steel, car and carriage, not made in steel works or rolling mills.	12	1,824	3	61	84	72	1,104	Oc	1,222	Ja	985	1,182	918	226	16	22	5,315,541
39	Stamped and enameled ware, not elsewhere specified.	22	2,783	3	74	114	92	2,450	De	2,797	Ja	1,824	2,812	1,992	791	25	4	12,034,562
40	Stationery goods, not elsewhere specified.	32	2,180	20	109	224	159	1,608	De	2,105	Ap	1,451	2,109	1,162	908	13	20	7,623,135
41	Statuary and art goods.	15	513	9	24	31	11	438	De	493	Ja	394	494	477	13	4	822,876	
42	Steam fittings and steam and hot-water heating apparatus.	28	11,588	4	199	1,104	353	9,928					12,099	11,212	882	5	5	29,181,062
43	Radiators and cast-iron heating boilers.	8	666	1	26	68	26	545	De	788	Ja	311	787	786	1	1	2,647,963	
44	All other.	20	10,922	3	173	1,036	327	9,333	De	11,311	Au	5,938	11,312	10,426	882	4	27	26,533,080
45	Steam packing.	19	549	7	37	81	39	885	No	499	Ja	318	496	304	145	20	27	2,036,870
46	Steel barrels, drums, and tanks.	4	268	2	21	24	19	202	De	241	Ap	145	241	222	19	1	1,481,895	
47	Stencils and brands.	5	18	5	7	13	13	13	No	14	Mh	12	15	12	1	2	20,412	
48	Stereotyping and electrotyping.	26	884	10	72	68	26	708	No	750	Ap	527	741	724	6	11	1,417,930	
49	Stoves and hot-air furnaces.	56	5,841	9	298	411	243	4,880					5,310	5,049	10	251	18,379,632	
50	Stoves and ranges.	41	5,189	6	239	367	211	4,366	No	4,936	Ja	2,823	4,756	4,500	9	247	16,555,666	
51	Hot-air furnaces.	15	652	3	59	44	32	514	Oc	568	Fe	474	554	549	1	4	1,823,868	
52	Stoves, gas and oil.	13	774	2	40	74	26	632	No	810	Ja	494	821	748	71	2	3,858,123	
53	Structural ironwork, not made in steel works or rolling mills.	115	4,908	47	356	555	160	3,790	Ja	4,348	My	3,457	4,049	4,044	5	1	19,594,391	
54	Sulphuric, nitric, and mixed acids.	3	1,032	32	81	44	875	Oc	1,008	My	727	920	920	918	2	2	7,577,182	
55	Tinware, not elsewhere specified.	28	6,669	14	168	260	210	5,927	Jy	6,649	De	5,482	5,495	3,609	1,855	20	11	40,017,250
56	Tobacco, cigars and cigarettes.	1,182	4,908	1,312	104	353	26	3,363					3,972	2,673	1,243	44	12	5,137,179
57	Cigars.	1,173	4,893	1,305	103	102	25	3,358	De	3,648	Se	2,671	3,965	2,668	1,242	43	12	5,122,770
58	Cigarettes.	9	15	7	1	1	1	5	(*)	5	(*)	5	7	5	1	1	1	14,400
59	Tools, not elsewhere specified.	114	3,708	74	245	177	214	2,998					3,336	3,188	134	11	3	10,717,368
60	Carpenters' tools, not elsewhere specified.	6	194	3	11	15	11	154	De	201	Je	113	212	203	9	1	423,318	
61	Machinists' tools.	57	2,381	38	155	97	132	1,959	De	2,125	Ap	1,777	2,124	2,027	91	4	2	6,525,354
62	All other.	51	1,133	33	79	65	71	855	Ja	1,003	My	724	1,000	958	34	7	1	3,767,696
63	Toys and games.	36	753	34	41	30	37	611	No	794	Ja	365	802	399	359	28	18	1,094,674
64	Trunks and valises.	61	1,495	58	85	130	41	1,181	De	1,299	Ja	1,039	1,312	1,101	201	4	6	3,639,108
65	Type founding.	3	169	3	1	1	1	12	(*)	12	(*)	12	13	11	2	2	28,002	

* Includes water wheels and turbines (irrespective of ownership of water supply), and water motors (operated by water from city mains).

* Chiefly electric motors operated by rented (or purchased) current; other power included (chiefly shaft-belt or transmitted power from neighboring power plants).

MANUFACTURES—ILLINOIS.

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COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

EXPENSES.								Value of products.	Value added by manufacture.	POWER.					
Salaries and wages.			For contract work.	Rent and taxes.		For materials.				Primary horsepower.					Electric horsepower generated in establishments reporting.
Officials.	Clerks, etc.	Wage earners.		Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.			Total.	Owned.				
											Steam engines (not turbines).	Steam turbines.	Internal-combustion engines.	Water power. ¹		Rent-^{2}

THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.

Dollars. 49,582	Dollars. 30,040	Dollars. 195,879	Dollars.	Dollars. 11,583	Dollars. 3,632	Dollars. 3,736,476	Dollars. 12,525	Dollars. 4,733,416	Dollars. 984,415	206	84					122	1	
0,124,489	6,230,738	27,380,468	5,527,904	1,965,897	1,424,260	41,675,229	815,520	110,886,458	68,395,709	23,065	4,136	442	94			18,393	3,784	2
4,955,708	3,361,101	25,304,264	1,006,826	1,680,787	1,275,110	39,332,048	775,226	92,232,447	52,125,173	22,487	4,136	442	94			17,815	3,784	3
183,577	841,444	469,789	49,633	90,728	36,737	817,281	11,937	2,521,467	1,692,249	388						388		4
533,220	2,458,665	217,212	4,418,639	184,667	102,304	1,330,607	3,918	14,301,220	12,966,695	16						16		5
151,989	75,528	889,203	52,866	30,715	10,109	195,293	24,439	1,831,324	1,611,692	174						174		6
82,583	93,053	112,172	157,121	20,495	36,253	375,920	8,287	1,211,810	832,603	74						74		7
5,504,915	9,534,888	11,407,047	6,265,024	1,087,750	2,176,112	29,440,143	544,779	88,945,960	58,901,038	14,037	2,667		531	6	10,833	2,248	8	
1,744,746	3,718,147	4,960,591	360,249	189,182	1,439,425	14,914,307	217,299	36,027,313	20,895,107	5,253	615		5	4,633	276	9		
1,379,720	2,654,507	5,885,304	300,929	561,232	287,999	10,058,026	305,086	26,641,359	26,278,247	8,423	1,752		486	6	0,179	1,967	10	
2,440,449	3,102,234	552,152	5,603,846	337,336	448,688	4,467,210	22,394	26,277,288	21,787,684	361	300		40	21	6	11		
109,248	142,605	330,157		45,232	81,569	500,448	22,953	1,812,376	1,192,975	719			45	674		12		
167,622	96,815	523,247	2,849	9,431	68,497	615,305	22,994	1,853,118	1,214,819	806	105		40	501	100	13		
101,815	72,568	558,603	1,200	15,380	200,785	768,780	28,255	2,223,040	1,426,005	925	275			650	203	14		
55,093	19,147	325,322	4,723	6,992	376,815	10,678	1,198,255	811,762	460,390	455	125	206		124		15		
01,528	45,022	169,983	6,191	13,523	20,612	471,530	6,221	987,141		97				97		16		
563,691	1,107,219	3,120,209	156,263	8,753	334,654	16,688,437	829,639	27,561,165	10,043,089	9,425	4,754	60	1,020	2,691	5,391	17		
260,824	167,785	670,524		11,073	116,225	1,892,770	90,730	4,134,804	2,151,304	2,400	450		10	2,000		18		
153,678	137,079	1,058,949	150	61,287	90,331	4,501,909	28,460	7,032,469	2,592,100	606	120		13	473	105	19		
170,037	94,909	1,177,295	200,000	45,106	131,220	7,433,979	78,873	10,063,899	2,551,047	1,470	101		15	1,354		20		
135,742	73,173	672,139	200,000	30,671	98,241	6,254,948	71,800	8,100,721	1,773,973	1,381	101		15	1,265		21		
40,295	21,796	505,156		14,435	32,979	1,179,031	7,073	1,963,178	777,074	89				89		22		
146,854	94,715	914,463		58,080	178,995	1,238,545	34,730	3,206,909	1,933,634	1,170				1,170		23		
432,866	169,336	2,085,322	7,548	43,046	321,597	2,492,460	105,691	6,616,907	4,018,756	3,128	900		12	2,216	344	24		
200,651	551,199	2,306,412		1,500	137,756	2,287,574	89,458	7,166,783	4,789,751	2,413	1,800	153		460	968	25		
18,871	10,237	119,673		4,832	209,189	2,267,189	5,956	401,225	246,080	355	166		9	180		26		
232,895	155,910	647,959	13,741	71,546	66,724	2,347,138	13,920	4,199,359	1,898,202	228	80			148	65	27		
48,157	18,283	244,091	2,356	16,301	6,410	463,765	0,870	1,026,844	550,203	355	155			200	32	28		
535,135	745,158	1,604,902	117,904	88,818	121,061	2,944,547	81,648	8,246,735	5,220,540	1,383	315		48	1,020	11	29		
109,528	128,502	737,437	11,168	49,273	15,318	1,150,039	27,976	2,643,781	1,465,760	624	315			309	10	30		
305,607	610,566	927,465	106,736	39,545	105,743	1,794,508	53,672	5,602,954	3,764,774	759			48	711	1	31		
16,228	11,497	47,044		11,051	688	61,443	1,110	140,788	87,235	46				46		32		
5,302,107	9,852,654	79,982,654	17,275	201,266	4,094,287	1,130,106,748	6,843,744	1,284,103,016	141,152,524	86,638	51,459	10,103		24,984	33,242	33		
417,086	320,331	4,993,880		366,679	15,812,236	2,641,012	2,641,012	24,053,952	6,600,704	19,796	10,747	5,667	140	3,242	7,050	34		
110,244	60,166	637,087	20,220	50,642	90,637	134,418	11,233,227	1,123,227	1,917,196	1,610	900		18	692	675	35		
447,811	837,439	2,366,407	10,654	51,278	156,780	19,083,904	400,004	25,733,832	6,249,924	2,578	1,050		25	1,503	1,095	36		
149,222	67,207	490,484	9,515	27,808	62,004	1,134,868	23,799	2,309,768	1,146,101	526			2	524		37		
447,911	209,475	1,133,767		47,562	582,581	3,016,032	108,544	6,937,499	3,212,923	1,797	930		120	747	368	38		
339,797	302,611	2,463,020	14,977	70,171	302,167	4,289,735	192,553	9,215,632	4,733,344	3,669	870		139	2,660	175	39		
451,362	573,886	1,549,716	60,269	63,336	936,091	3,176,611	53,809	8,950,598	5,720,178	1,366		100	28	1,238	109	40		
68,351	46,477	520,316	7,949	18,108	21,106	396,985	14,019	1,640,453	1,229,448	160	60			100	225	41		
957,396	2,351,802	12,097,089	15,832	105,122	678,456	22,413,820	1,046,418	43,940,561	20,480,323	22,577	4,718	2,630	12	15,222	3,915	42		
125,887	150,060	712,814		6,199	80,618	1,823,066	131,878	3,098,461	1,743,517	879	270	185		424	410	43		
831,539	2,201,742	11,384,275	15,832	98,923	597,838	20,590,754	914,540	40,242,100	18,736,808	21,608	4,443	2,445	12	14,798	3,505	44		
176,494	90,117	393,195		24,748	137,405	1,008,763	22,378	2,368,471	1,327,340	567	100		60	407		45		
105,534	43,718	184,652		20,768	103,498	909,526	5,137	1,839,626	864,913	198	35			163		46		
		14,350		1,457	104	9,217	8,574	35,350	25,759	7				7		47		
352,088	138,016	1,055,175	18,355	76,837	121,113	576,264	61,421	3,283,617	2,045,932	1,740				1,740		48		
1,097,433	1,099,996	6,536,968		51,186	764,904	8,141,444	398,835	22,522,771	14,012,442	6,718	2,277		117	4,319	1,121	49		
889,127	1,008,522	6,868,924		30,753	697,627	6,739,315	335,957	19,334,392	12,259,120	6,070	2,277		117	3,076	1,121	50		
208,306	91,474	668,044		14,433	67,337	1,402,129	32,928	3,188,379	1,753,322	643				643		51		
120,826	195,610	747,317	1,000	11,123	102,451	2,123,997	50,416	4,015,981	1,841,848	806	575		5	223	120	52		
1,280,229	1,233,650	5,003,026	154,237	101,691	461,552	10,247,842	322,472	27,580,074	11,015,760	11,803	5,360	40	206	0,197	0,952	53		
182,464	181,271	1,478,766			168,506	1,898,106	329,839	5,096,584	2,828,639	6,056	1,970			4,080		54		
655,343	753,798	6,528,028	3,963	47,339	1,421,155	28,820,596	340,833	42,832,770	13,671,341	6,764	3,147			3,607	2,248	55		
182,056	163,091	2,976,365	4,634	192,995	1,254,425	5,295,208	42,495	11,827,472	6,459,709	76				76		56		
180,056	160,691	2,969,685	4,634	190,138	1,245,795	5,276,226	42,187	11,731,562	6,463,149	72				72		57		
2,000		6,880		2,827	8,630	18,932	308	45,910	26,620	4				4		58		
842,554	687,585	3,725,957	56,629	139,858	679,838	3,994,080	364,055	12,042,966	7,684,824	6,514	221	2,120	109	3,854	1,871	59		
22,154	176,054	1,966	230	1,966	4,343	120,051	11,293	432,430	301,086	216			43	173		60		
520,740	470,259	2,465,277	15,634	85,615	328,234	2,402,678	251,634	7,239,611	4,585,299	3,691		2,120	42	1,379	1,871	61		
299,660	190,773	1,085,626	40,765	52,277	347,261	1,471,366	101,126	4,770,925	2,798,439	2,607	221		24	2,302		62		
75,114	63,197	489,958	4,504															

TABLE 43.—DETAILED STATEMENT OF ALL INDUSTRIES

INDUSTRY AND CITY.	Number of establishments	PERSONS ENGAGED IN THE INDUSTRY.										WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.						Capital.
		Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc.		Wage earners.				Total.	16 and over.		Under 16.				
					Male.	Female.	Average number.	Number, 15th day of—		Male.		Female.	Male.	Female.				
								Maximum month.	Minimum month.									

THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.

																			Dollars.
1	Typewriters and supplies.....	11	2,257	5	65	75	483	1,629	De	1,770	Se	1,488	1,787	1,307	468	6	6	4,988,847	
2	Upholstering materials.....	7	799	1	22	27	15	734	Jy	816	Ja	593	786	418	364	1	3	1,980,264	
3	Varnishes.....	33	1,087	6	111	282	160	538	Oc	588	Fe	471	562	501	50	1	1	8,753,274	
4	Vault lights and ventilators.....	13	179	4	23	11	9	132	Au	158	Ja ^s	101	144	144	.....	.....	.....	204,181
5	Vinegar and cider.....	26	242	24	20	25	10	163	.....	.....	.....	.....	188	180	8	.....	.....	2,005,829
6	Vinegar.....	15	211	15	14	23	9	150	Se	186	De	119	146	139	7	.....	.....	1,888,214
7	Cider.....	11	31	9	6	2	1	13	Se	37	Ja ^s	2	42	41	1	.....	.....	118,046
8	Wall paper, not made in paper mills.	9	1,149	1	55	87	52	954	De	1,095	Jy	802	1,221	929	291	.....	1	4,418,110
9	Wall plaster and composition flooring.	11	273	1	31	41	28	172	Se ^s	213	Ja	110	186	178	8	.....	.....	897,522
10	Washing machines and clothes wringers.	21	2,446	4	108	395	192	1,747	Oc	2,248	Ja	1,222	2,376	2,333	41	2	.....	9,176,002
11	Waste, cotton.....	4	135	3	11	5	3	113	No ^s	118	Fe	108	118	80	20	.....	.....	415,870
12	Watch materials, except watchcases.	5	117	4	3	3	9	98	Je	127	Mh	81	80	19	68	.....	2	90,402
13	Windmills.....	8	885	2	55	69	25	734	De	843	Je	424	850	844	2	4	.....	8,627,118
14	Window and door screens and weather strips.	26	280	23	20	10	17	201	.....	.....	.....	.....	210	175	33	2	.....	993,041
15	Window and door screens.....	16	215	19	13	5	7	171	My	217	Ja	116	172	141	30	1	.....	451,792
16	Weather strips.....	10	65	4	16	5	10	30	De	39	My	25	38	34	3	.....	.....	512,145
17	Window shades and fixtures.....	59	1,617	49	64	84	70	1,344	No	1,508	Ja	1,144	1,511	1,134	375	2	.....	6,346,737
18	Wire.....	10	3,282	.....	133	275	99	2,775	Au	3,309	Oc	1,468	3,109	3,005	104	.....	.....	15,477,020
19	Wirework, not elsewhere specified.	49	1,120	36	101	73	80	821	.....	.....	.....	.....	874	758	106	9	1	4,005,517
20	Woven-wirefencing.....	7	407	3	37	38	41	288	Au	330	Ja	252	316	316	.....	.....	.....	2,345,031
21	All other.....	42	713	33	64	35	48	533	Jy	576	Ja	509	558	442	106	9	1	1,660,498	
22	Wood preserving.....	7	594	.....	28	10	2	518	Je	585	Fe	425	562	502	.....	.....	.....	2,252,853
23	Wood, turned and carved.....	28	747	19	32	64	26	606	Oc	658	Ja	559	652	594	41	14	3	1,319,317	
24	Wooden goods, not elsewhere specified.	9	215	5	13	18	9	170	Je	199	No	150	167	154	9	4	.....	581,030
25	Wool pulling.....	5	69	5	6	2	.....	56	De	83	My	30	83	83	.....	.....	.....	187,822
26	Woolen goods.....	4	513	.....	18	13	.....	482	Je	499	Ja	451	498	304	187	3	4	1,028,033
27	All other industries*.....	209	39,905	192	1,253	2,510	1,002	34,408	.....	.....	.....	.....	.....	.....	.....	.....	.....	174,044,487

*All other industries embrace—
Aeroplane, seaplane, and airships, and parts..... 1
Ammunition..... 1
Bags, paper, not including bags made in paper mills..... 4
Bells..... 1
Belting and hose, rubber..... 1
Belting and hose, woven, other than rubber..... 2
Boot and shoe cut stock..... 7
Boot and shoe findings..... 6

Chewing gum..... 0
Chocolate and cocoa products..... 1
Clocks..... 5
Cloth, sponging and refinishing..... 4
Clothing, horse..... 3
Combs and hairpins, not made from metal or rubber..... 1
Cordage and twine..... 3
Cork, cutting..... 3
Cotton lace..... 1
Crucibles, graphite..... 1
Dyestuffs and extracts—natural..... 3

Feathers and plumes..... 2
Felt goods..... 1
Files..... 2
Fire extinguishers, chemical..... 2
Firearms..... 1
Fireworks..... 4
Flax and hemp, dressed..... 1
Glucose and starch..... 4
Gold and silver, reducing and refining, not from the ore..... 4
Graphite, ground and refined..... 1

Grease and tallow, not including lubricating greases..... 42
Haircloth..... 1
Hammocks..... 2
Hardware, saddlery..... 1
Hats, wool-felt..... 4
Horse shoes, not made in steel works or rolling mills..... 1
Ink, writing..... 5
Iron and steel, wrought pipe..... 2
Ivory, shell, and bone work, not including combs and hairpins..... 3

CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES.

	CHICAGO—All industries.....	10,537	502,100	8,182	21,877	42,732	25,367	408,942	No	428,702	My	381,980	433,022	332,094	94,761	2,694	3,473	2,074,692,014
1	Aluminum manufactures.....	3	62	4	8	.....	2	48	De	66	Fe	26	66	65	1	.....	.....	127,160
2	Artificial stone products.....	21	253	16	28	12	13	184	Je	210	Fe	138	207	207	.....	.....	.....	884,276
3	Artists' materials.....	8	40	5	8	3	2	27	Se	29	Ja	24	29	23	4	1	1	123,587
4	Automobile bodies and parts.....	130	4,353	93	285	300	238	3,437	De	4,021	Ja	2,724	4,027	3,680	337	5	5	9,953,379
5	Automobiles.....	13	1,973	2	181	265	112	1,403	No	1,558	Ap	1,369	1,546	1,545	1	.....	.....	11,390,074
6	Automobile repairing.....	207	1,852	215	110	100	60	1,307	Jy	1,425	Ja	1,275	1,305	1,378	16	1	.....	2,630,840
7	Awnings, tents, and sails.....	36	410	37	34	49	20	270	Ja	352	Ja	196	269	439	112	12	0	1,239,706
8	Billiard tables and accessories.....	3	39	1	3	3	2	30	(*)	30	(*)	30	30	15	15	.....	.....	72,525
9	Bluing.....	5	54	5	4	5	.....	40	Se	61	Ja	30	34	12	18	.....	.....	74,812
10	Bookbinding and blank-book making.....	98	2,748	81	131	124	107	2,305	De	2,487	Ja	2,076	2,521	1,309	1,067	63	82	4,536,869
11	Boots and shoes.....	31	3,894	22	112	233	183	3,344	De	4,063	Ap	1,468	4,079	2,437	1,505	81	56	11,325,489
12	Boxes, cigar.....	5	201	5	5	6	4	181	De	191	Fe	174	191	72	92	2	25	317,636
13	Boxes, paper and other, not elsewhere specified.....	70	5,239	39	231	290	181	4,489	No	4,811	My	4,237	4,821	1,872	2,049	207	693	11,119,752
14	Boxes, wooden packing, except cigar boxes.....	32	3,608	22	106	93	36	3,351	Ja	3,865	Jy	1,852	3,354	3,071	277	6	.....	6,875,222
15	Brass, bronze, and copper products.....	72	3,063	32	185	209	118	2,519	De	2,784	Je	2,114	2,781	2,567	196	17	1	10,125,743
16	Bread and other bakery products.....	1,338	12,810	1,423	308	1,287	379	9,413	De	10,030	My	8,325	10,223	6,977	3,113	43	90	32,017,026
17	Brick and tile, terra-cotta, and fire-clay products.....	9	697	.....	62	31	10	594	Oc	862	Ja	226	745	744	1	.....	.....	4,819,109
18	Brooms, from broom corn.....	33	443	45	10	20	10	358	Se	370	Mh	342	373	298	73	1	1	715,409
19	Brushes.....	37	384	35	24	25	18	281	Se	293	Ja	260	286	228	52	6	.....	1,082,764
20	Butter.....	6	235	1	27	24	20	163	Au	194	Ja	137	161	117	44	.....	.....	7,278,622
21	Buttons.....	19	249	17	9	5	6	212	Ap	222	Ja	186	206	85	117	1	8	335,272
22	Canning and preserving, fish.....	5	32	8	2	1	1	20	Fe	22	Je	17	28	20	3	.....	.....	123,377
23	Cardboard, not made in paper mills.....	3	155	.....	14	7	8	126	Oc	145	Ja	93	133	78	55	.....	.....	598,044
24	Carriages and sleds, children's.....	8	205	6	8	9	6	176	Fe	185	Ap	161	179	134	40	5	.....	230,788
25	Carriages and wagons, including repairs.....	49	1,439	58	63	84	24	1,210	.....	.....	.....	.....	1,265	1,264	.....	1	.....	8,540,501
26	Carriages and wagons.....	15	1,335	10	63	83	24	1,149	Oc	1,320	Je	1,052	1,206	1,206	.....	.....	.....	8,317,471
27	Repair work only.....	34	104	42	.....	.....	.....	61	Au	65	De	56	59	58	.....	1	.....	223,120
28	Cars and general shop construction and repairs by steam-railroad companies.....	26	17,211	.....	459	849	177	15,740	No	16,335	Ap	15,281	16,311	16,106	205	.....	.....	45,652,386

¹ Includes water wheels and turbines (irrespective of ownership of water supply), and water motors (operated by water from city mains).

² Chiefly electric motors operated by rented (or purchased) current; other power included (chiefly shaft-belt or transmitted power from neighboring power plants).

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[illegible][illegible]

Jute goods.....	1	Pencils, lead.....	1	Smelting and refining, lead.....	2	Tin foil and other foils, not elsewhere specified.....	2
Lasts.....	1	Pens, fountain and typographic.....	5	Smelting and refining metals, not elsewhere specified.....	1	Tobacco, chewing and smoking, and snuff.....	31
Lead, bar, pipe, and sheet.....	1	Plated ware.....	2	Soda-water apparatus.....	12	Umbrellas and canes.....	2
Lubricating greases.....	6	Pulp goods.....	2	Sugar, beet.....	1	Watchcases.....	4
Knives.....	2	Rails, ivory and wood.....	2	Surgical appliances.....	24	Watches.....	2
Net and seines.....	2	Safes and vaults.....	2	Suspenders, garters, and elastic woven goods.....	14	Whips.....	4
Oil and cake, cottonseed.....	3	Sand and emery paper and cloth.....	13	Textile machinery and parts.....	2	Wool scouring.....	4
Oil, linseed.....	2	Saws.....	1	Theatrical scenery.....	2	Wool shoddy.....	1
Oilcloth and linoleum, floor.....	1	Sewing-machine cases.....	1			Worsted goods.....	1
Paper patterns.....	1	Shipbuilding, steel.....	1				
Peanuts, grading, roasting, cleaning, and shelling.....	1	Silk goods, including throwsters.....	4				

90,330,278	98,420,324	507,753,024	28,847,951	17,530,393	90,187,144	2,308,034,184	71,208,044	3,657,424,471	1,278,182,243	825,972	304,641	114,826	33,630	183	312,087	312,780	1
18,304	1,200	71,564	.....	1,570	1,755	140,636	4,409	275,282	130,127	24	.....	.....	.....	.....	24	.....	2
98,088	32,631	225,461	625	12,529	9,887	247,923	10,743	854,899	599,203	508	130	.....	.....	.....	378	.....	3
15,300	4,409	27,241	.....	3,376	694	61,990	660	170,201	96,551	11	.....	.....	.....	.....	.....	.....	4
980,091	708,825	4,254,886	78,288	317,095	326,747	8,220,612	207,030	18,241,083	9,803,978	4,551	30	.....	200	.....	4,321	.....	5
534,220	490,271	2,159,595	.....	65,966	2,456,813	41,417,096	79,992	51,304,371	9,806,848	4,042	16	.....	.....	.....	927	.....	6
206,123	181,745	1,767,014	20,890	287,609	24,653	2,452,520	84,460	5,320,552	3,282,981	1,155	.....	.....	33	.....	1,122	.....	7
132,070	88,912	390,707	1,748	43,068	37,658	1,231,922	11,800	2,417,455	1,173,737	1,215	85	.....	.....	.....	120	.....	8
11,400	3,000	27,960	.....	300	2,794	18,947	1,422	82,241	61,872	27	.....	.....	.....	.....	130	.....	9
13,582	0,806	27,870	.....	4,500	397	223,084	1,065	731,434	105,785	92	.....	.....	.....	.....	92	.....	10
440,007	200,899	2,106,087	135,339	186,995	123,133	2,519,730	54,805	7,296,956	4,719,412	1,218	79	.....	.....	.....	1,149	.....	11
428,393	676,253	3,194,839	797	153,029	310,481	10,405,535	74,268	17,505,506	7,115,703	2,450	1,845	.....	.....	.....	605	1,159	12
23,740	14,466	145,127	635	11,940	1,865	240,310	5,080	561,419	340,031	106	.....	.....	.....	.....	106	.....	13
076,070	853,184	3,050,336	8,480	267,276	472,065	9,587,127	172,485	10,250,917	9,491,805	3,706	1,200	.....	85	.....	2,421	628	14
418,310	182,202	3,713,790	67,241	136,678	338,781	7,913,917	44,502	14,549,219	6,690,800	7,552	5,448	1,000	.....	.....	1,106	1,366	15
747,246	391,477	3,104,131	19,400	137,413	438,987	12,676,403	136,656	20,422,138	7,529,079	3,460	.....	.....	20	.....	3,440	15	16
804,113	2,374,535	11,192,719	50,764	734,700	1,044,901	43,920,462	1,184,030	77,542,298	32,437,806	9,429	3,426	175	.....	137	5,601	1,863	17
199,802	36,801	744,938	5,632	5,559	84,026	116,794	231,081	1,938,119	1,590,244	3,249	2,474	.....	50	.....	725	1,014	18
31,675	25,883	443,853	.....	22,357	5,595	1,068,390	10,711	1,836,943	767,852	225	.....	.....	.....	.....	275	.....	19
82,708	96,896	203,734	9,766	18,208	50,860	1,074,217	20,028	1,988,414	894,169	291	150	.....	.....	.....	281	.....	20
102,881	47,908	192,656	.....	4,175	44,457	4,359,301	24,125	4,886,119	502,693	454	.....	.....	.....	.....	454	.....	21
40,576	21,050	173,610	2,447	13,231	3,915	4,252,648	5,981	648,829	390,200	67	.....	.....	.....	.....	67	.....	22
6,240	1,924	27,023	.....	3,100	3,920												

⁴ Same number reported throughout the year.

MANUFACTURES—ILLINOIS.

TABLE 43.—DETAILED STATEMENT OF ALL INDUSTRIES

INDUSTRY AND CITY.		Number of establishments	PERSONS ENGAGED IN THE INDUSTRY.							WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.						Capital.	
			Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc.		Wage earners.			Total.	16 and over.		Under 16.			
						Male.	Female.	Average number.	Number, 15th day of—			Male.	Female.	Male.	Female.		
									Maximum month.	Minimum month.							
CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.																	
1	Chicago—Continued.	10	11,754		316	638	137	10,663	Ja	12,484	Jy	7,941	10,520	10,395	125	Dollars. 42,837,576	
2	Cars, steam-railroad, not including operations of railroad companies.	7	1,108	1	51	58	40	958	De	1,112	Au	868	960	730	221	5,278,463	
3	Cash registers and calculating machines.	4	12	2	4	2	1	3	De	4	My	2	4	4		20,049	
4	Chemicals.	17	408	4	42	74	46	242	Au	256	Ja	231	261	246	15	3,899,532	
5	China decorating, not including that done in potteries.	10	104	10	4	8	6	76	No	92	Ja	59	87	53	34	170,315	
6	Cleansing and polishing preparations.	48	627	26	73	150	30	348					370	228	135	1,515,320	
7	Cleansing preparations.	16	85	11	17	17	8	32	My	38	Ja	28	51	36	13	147,233	
8	Polishing preparations.	37	542	15	56	133	22	310	Ja	363	Ap	254	319	192	122	1,808,087	
9	Clothing, men's.	464	38,035	514	1,040	2,806	2,763	30,822					36,922	18,029	18,609	88,891,225	
10	Regular factory products.	217	31,627	184	980	2,872	2,083	24,008					30,396	15,378	14,811	87,327,303	
11	Men's and youths'.	166	28,337	134	822	2,540	2,508	22,333	Oc	26,454	Ja	18,517	27,213	14,067	12,990	78,716,272	
12	All other.	51	3,290	50	153	332	175	2,575	De	3,167	Ja	2,205	3,178	1,811	1,815	8,611,121	
13	Contract work.	247	6,408	330	60	24	80	5,914					6,526	2,651	3,798	1,594,132	
14	Men's and youths'.	239	6,232	319	60	24	79	5,750	Oc	6,201	Ja	5,200	6,313	2,541	3,699	1,527,843	
15	Boys'.	4	88	0				82	Ja	84	Mh	80	84	31	49	15,740	
16	All other.	4	88	5			1	82	De	129	My	54	129	79	50	20,549	
17	Clothing, men's, buttonholes.	3	13	4				9	My	10	Ja	7	11	8	8	3,750	
18	Clothing, women's.	374	11,056	441	375	630	463	9,147					9,216	2,807	6,300	22,106,070	
19	Regular factory products.	343	10,642	401	372	630	462	8,777					8,800	2,590	6,101	22,083,108	
20	Suits, skirts, cloaks, shirt-waists, and dresses, except house dresses.	250	7,739	307	247	465	304	6,350	Se	7,035	Ja	5,516	6,222	2,243	3,909	15,485,897	
21	All other.	93	2,003	94	125	165	98	2,421	No	2,624	Ja	2,204	2,578	347	2,192	6,597,211	
22	Contract work.	31	414	40	3		1	370					416	217	199	113,562	
23	Suits, skirts, and cloaks.	22	292	28	3		1	200	Au	331	My	171	207	185	112	44,253	
24	All other.	9	122	12				110	Oc	131	Fe	93	119	32	87	60,809	
25	Coal-tar products.	5	106		23	21	10	112	Au	133	Fe	95	132	126	0	971,532	
26	Coffins, burial cases, and undertakers' goods.	14	957	2	56	122	15	702	Mh	822	Do	702	702	584	114	3,133,000	
27	Confectionery and ice cream.	191	8,761	128	444	533	411	7,245					7,792	3,743	3,773	24,005,095	
28	Confectionery.	154	8,030	103	376	487	379	6,080	Oc	8,557	Jy	5,017	7,309	3,305	3,758	19,822,173	
29	Ice cream.	37	731	20	68	40	32	565	Jy	740	Ja	435	433	438	15	2,693,811	
30	Cooperage.	19	1,029	8	49	16	13	944	Fe	994	Au	840	955	906	40	4,020,297	
31	Copper, tin, and sheet-iron work.	218	1,903	219	124	85	70	1,465	De	1,607	Ja	1,815	1,628	1,614	8	4,103,444	
32	Corsets.	17	1,880	8	83	71	144	1,574	Ja	1,764	Je	1,483	1,814	234	1,499	4,135,820	
33	Cutlery and edge tools.	13	1,097	9	66	58	52	912	No	905	Ap	700	1,016	894	110	2,439,273	
34	Dairymen's supplies.	7	673		44	46	37	446	Ja	455	No	403	411	338	73	394,569	
35	Dental goods.	17	329	11	16	25	31	246	De	252	Ja	235	254	213	32	3,066,606	
36	Druggists' preparations.	23	789	7	57	178	104	383	Ja	462	Jy	304	380	220	155	2	57,234,184
37	Electrical machinery, apparatus, and supplies.	140	17,722	38	849	1,872	1,074	13,880	De	16,041	Fe	12,729	10,025	11,115	4,735	124	51
38	Electroplating.	44	603	46	40	14	16	487	No	541	Ja	401	540	505	25	9	1
39	Emery and other abrasive wheels.	6	103	2	14	16	6	67	Oc	85	Ja	51	85	85		9	1
40	Engravers' materials.	5	98	2	14	11	12	59	De	60	Ja	52	64	63		1	1
41	Engraving and diesinking.	36	637	35	24	40	25	713	Au	826	Ja	600	804	767	27	9	1
42	Engraving, steel and copper plate, including plate printing.	33	1,462	21	98	74	80	1,189	De	1,286	Ap	1,109	1,281	774	436	25	40
43	Engraving, wood.	11	250	10	17	48	13	171	Jy	185	Ja	159	168	167	1	1	1
44	Fancy articles, not elsewhere specified.	51	1,098	49	57	66	47	879					900	282	575	8	35
45	Beadwork and celluloid novelties.	5	55	7	3		2	43	Fe	56	My	32	48	26	18	4	6
46	Metal novelties.	12	298	10	17	18	13	240	No	300	Ja	180	247	151	90		
47	All other.	34	745	32	37	48	32	596	Se	689	Ja	515	605	105	467	4	29
48	Flags and banners.	9	142	6	7	8	0	112	Ja	126	Au	101	107	19	83	1	4
49	Flavoring extracts.	20	455	10	34	152	46	213	Jy	282	Fe	168	241	93	139	1	8
50	Flour-mill and gristmill products.	7	466		36	50	17	363	No	398	Au	326	390	390			
51	Food preparations, not elsewhere specified.	99	3,769	92	213	438	188	2,838					2,826	1,679	1,124	2	21
52	Breadstuffs, cereals, and breakfast foods, lard compounds, macaroni, vermicelli, and noodles.	29	1,210	46	39	98	40	987	Ja	1,171	Mh	604	1,053	752	287	14	5,889,834
53	All other, for human consumption.	63	2,340	42	148	307	125	1,718	Fe	1,972	My	1,387	1,682	817	830	2	7
54	For animals and fowls.	7	219	4	26	33	23	133	Ja	150	Jo	99	111	110	1		
55	Foundry and machine-shop products.	474	32,095	235	1,591	2,544	1,339	26,388					20,051	27,769	1,070	191	12
56	Boiler shops.	21	496	16	25	3	3	430	Oc	465	Je	405	441	441			
57	Foundries.	40	6,278	11	218	324	129	5,596	De	6,547	Je	4,882	6,610	6,464	145	1	
58	Machine shops.	403	22,692	208	1,268	1,980	1,123	18,113	No	19,951	Mh	16,845	19,689	18,562	914	181	12
59	Machine shop and foundry combined.	10	2,629		80	218	84	2,247	Ja	3,189	My	1,928	2,331	2,302	20	9	
60	Fur goods.	120	958	120	60	62	53	654	No	747	Mh	581	723	394	339		
61	Furnishing goods, men's.	27	1,203	20	57	153	56	917	Oc	1,022	Jo	835	1,040	145	876	3	16
62	Furniture.	222	10,077	171	498	604	277	8,627					9,511	8,793	614	100	4
63	Wood, including rattan and willow.	153	7,865	121	361	409	204	6,770	De	7,465	Ja	5,847	7,500	6,879	537	80	4
64	Metal furniture.	10	463	3	41	17	21	381	No	443	Fe	308	412	378	34		
65	Store and office fixtures.	59	1,749	47	96	78	52	1,476	No	1,587	Ja	1,345	1,599	1,536	43	20	
66	Furs, dressed.	4	68	1	8	1	1	67	Mh	72	Au	43	51	45	6		
67	Gas and electric fixtures.	34	1,384	10	85	117	75	1,097	No	1,243	Ap	960	1,205	895	293	12	5

1 Includes water wheels and turbines (irrespective of ownership of water supply), and water motors (operated by water from city mains).

2 Chiefly electric motors operated by rented (or purchased) current; other power included (chiefly shaft-belt or transmitted power from neighboring power plants).

COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

EXPENSES.								Value of products.	Value added by manufacture.	POWER.					
Salaries and wages.			For contract work.	Rent and taxes.		For materials.				Primary horsepower.					Electric horsepower generated in establishments reporting.
Officials.	Clerks, etc.	Wage earners.		Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.			Total.	Owned.				
										Steam engines (not turbines).	Steam turbines.	Internal-combustion engines.	Water power. ¹	Rent. ²	

CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.

Dollars. 789,226	Dollars. 1,140,218	Dollars. 15,977,440	Dollars. 49,400	Dollars. 2,983,214	Dollars. 49,011,533	Dollars. 953,754	Dollars. 77,229,022	Dollars. 27,263,735	26,719	5,096	17,658	1,000	2,965	27,163	1
262,802	129,308	1,152,132	728	20,840	679,845	407,016	19,733	3,326,935	2,900,186	409	200		209	100	2
0,520	6,906	4,325		941	237	69,438	222	101,709	32,049	12	12				3
174,446	166,190	340,881		42,563	145,744	1,918,255	192,891	4,368,494	2,257,398	2,392	490		1,852	37	4
16,675	35,719	89,720	968	4,714	0,036	90,701	7,595	352,207	253,821	10			10		5
237,332	381,017	367,405	234	57,461	37,400	2,235,113	16,288	4,004,454	2,353,053	391	12			377	6
52,280	22,106	51,301		17,364	1,998	328,780	3,153	606,110	274,227	62				60	7
185,052	358,911	316,104	234	40,097	35,402	1,906,333	13,135	3,998,344	2,078,826	329	12			317	8
5,861,787	7,333,684	42,772,268	10,912,410	1,300,590	4,262,288	86,188,754	444,163	190,016,924	103,384,007	5,734	245	125		5,360	9
6,045,566	7,223,099	34,942,930	10,277,889	1,220,780	4,241,304	85,248,092	372,672	177,656,475	92,035,711	5,055	245	125		4,685	10
4,928,020	6,091,050	31,808,894	9,467,681	1,126,182	4,072,118	75,631,434	319,193	159,846,589	83,895,962	3,930	185	125		3,620	11
717,536	532,049	3,134,066	810,208	94,598	160,186	9,616,658	53,479	17,809,886	8,139,749	1,125	60			1,065	12
216,231	109,685	7,820,338	634,521	139,810	20,984	940,662	71,491	12,360,449	11,348,296	678				675	13
216,231	109,181	7,001,796	631,580	135,450	19,987	916,570	69,103	12,059,986	11,074,313	657				654	14
		114,280		1,248	281	3,970	1,352	143,764	138,442	11				11	15
	504	113,282	2,961	3,112	716	20,122	1,036	156,099	135,541	10				10	16
		11,772		640	2	1,703	305	20,026	17,958	3				3	17
1,840,142	2,325,543	10,787,240	1,474,354	632,504	277,626	38,686,575	126,247	64,203,210	25,390,388	1,671				1,671	18
1,634,422	2,324,543	10,285,101	1,471,980	616,705	277,095	38,049,557	120,710	63,478,098	24,708,431	1,602				1,602	19
1,863,910	1,705,078	8,249,617	1,353,528	482,044	213,668	29,705,707	77,648	48,647,904	18,864,480	853				853	20
470,512	558,865	2,035,484	118,452	134,661	63,437	8,943,790	43,062	14,830,794	5,843,942	749				749	21
5,720	1,000	502,129	2,374	15,709	531	37,018	5,537	724,512	681,957	69				69	22
5,720	1,000	372,106	1,180	11,128	476	26,404	3,328	508,943	479,211	47				47	23
		130,033	1,104	4,671	55	10,614	2,205	215,569	202,746	22				22	24
110,270	35,190	170,091		5,200	69,536	687,112	26,032	1,406,630	693,456	498	80			388	25
214,450	270,882	784,952		26,215	205,799	1,908,287	39,341	4,619,773	2,612,145	1,129	600			520	26
1,844,054	1,495,820	7,204,126	128,064	440,882	3,089,359	33,680,612	548,770	61,577,207	27,377,885	10,461	1,738			8,446	27
1,663,810	1,380,235	6,206,425	128,770	398,508	2,949,581	28,841,154	399,050	53,287,473	24,047,200	6,804	1,722			5,082	28
280,244	115,585	997,701	194	42,314	130,778	4,809,468	149,720	8,289,794	3,330,616	3,657	16			3,364	29
302,842	46,938	1,301,303		25,991	304,918	5,259,272	32,879	8,045,315	2,763,164	2,092	1,934			1,58	30
462,036	104,749	2,028,499	33,865	118,925	103,164	3,970,770	71,032	8,856,125	4,814,323	1,277				1,235	31
325,707	378,555	1,150,975	92,245	95,214	117,820	3,370,003	32,423	6,286,313	2,883,887	320				320	32
173,909	190,824	1,003,814	8,111	8,929	201,491	1,233,680	52,880	3,572,013	2,285,453	1,138	420			713	33
139,404	99,143	517,881	15,281	6,640	43,360	831,739	20,574	2,633,150	1,780,837	430	125			305	34
98,295	65,712	276,117		27,149	68,028	471,163	13,649	1,270,680	701,808	92				92	35
228,180	416,180	355,994	105	29,397	177,434	1,304,044	37,050	3,235,616	2,204,422	788	671			82	36
3,408,696	3,774,270	14,766,115	618,802	521,516	2,735,352	36,505,874	993,628	78,347,552	41,143,050	14,840	1,470	3,500		9,862	37
133,875	31,829	687,053	1,034	47,723	2,696	285,235	36,059	2,181,100	1,859,806	735				727	38
59,826	30,004	93,492	1,400	2,022	23,108	320,790	3,759	320,168	355,613	40				40	39
59,112	18,646	86,547		11,421	2,937	634,108	9,055	1,040,805	397,642	282				182	40
133,794	108,304	947,510	12,722	24,029	73,171	1,102,232	71,575	3,102,232	2,001,797	882	35			847	41
376,295	203,355	1,386,968	11,973	69,569	132,374	1,530,363	40,441	4,794,095	3,223,201	1,372	725			647	42
71,087	58,347	311,349	315	17,994	420	165,066	1,893	826,342	659,383	27				27	43
159,304	147,196	700,500	33,850	58,093	14,238	2,324,727	16,709	4,239,287	1,897,854	216				216	44
9,192	1,478	40,989	2,500	4,910	103	188,733	874	276,128	86,521	36				36	45
49,445	42,188	199,058	13,000	14,569	4,124	320,943	9,748	837,753	498,062	124				124	46
100,727	103,530	468,853	18,350	38,614	10,061	1,806,051	6,084	3,125,406	1,313,271	56				56	47
16,404	31,711	73,643	938	16,358	2,047	170,405	3,127	349,336	175,714	120				120	48
95,371	134,418	108,526		29,239	12,976	910,563	5,544	1,590,917	674,810	116				116	49
204,310	103,339	450,857	1,320	257,961	19,274,556	121,292	22,109,077	2,713,229	2,713,229	3,735	2,125			1,010	50
918,153	1,010,080	2,914,045	36,911	215,005	560,902	47,370,979	425,442	67,055,131	9,258,710	7,720	3,469			4,091	51
105,251	210,270	1,067,107	400	53,176	50,439	20,083,432	253,615	21,854,774	1,517,727	3,915	2,676			1,239	52
755,231	706,495	1,076,011	36,511	141,744	484,976	22,572,413	142,925	29,815,569	7,100,281	2,230	558			1,662	53
57,671	93,315	170,927		20,085	25,487	4,715,134	28,002	5,384,788	640,762	1,525	235			1,230	54
7,397,742	6,087,045	35,800,068	806,455	944,467	7,263,209	52,442,599	2,672,980	138,989,139	83,873,560	48,990	14,520	855		32,808	55
148,087	48,140	635,642	24,796	12,611	55,115	955,638	35,201	2,527,551	1,536,612	981	195	150		609	56
1,105,482	607,684	8,567,358	110,185	81,201	1,231,805	9,787,105	1,293,045	27,022,703	15,972,613	11,435	2,612			8,818	57
5,501,420	4,909,356	23,625,108	662,342	839,555	4,498,830	38,296,379	1,072,727	99,093,563	59,724,457	31,880	9,496	705		20,802	58
642,764	501,865	2,971,960	9,132	11,100	1,477,369	3,433,477	271,907	10,345,262	6,639,878	4,604	2,217			2,477	59
241,099	148,692	1,076,763	43,167	151,490	110,146	4,561,340	14,817	8,019,377	3,443,220	152				152	60
221,888	423,954	805,672	5,864	55,967	69,936	3,969,572	12,327	6,703,466	2,721,567	604	400			204	61
2,106,684	1,393,289	9,724,596	618,789	510,295	936,120	18,106,654	475,837	41,612,337	23,030,146	14,840	9,993	330		4,324	62
1,640,038	1,150,055	7,644,347	598,656	347,785	770,848	14,416,917	362,578	32,992,835	18,213,340	11,220	8,330	330		2,431	63
125,010	72,377	370,422	7,411	22,638	16,790	757,201	24,302	1,701,213	919,710	844	293			528	64
341,636	109,957	1,709,827	14,722	139,872	148,482	2,932,536	88,657	6,918,259	3,897,090	2,770	1,340			1,315	65
18,021	2,706	79,378		2,260	79,378	31,044	5,124	194,169	158,001	84				44	66
278,435	236,317	1,180,985		106,863	52,461	2,734,586	67,587	5,540,461	2,738,283	1,433	728			708	67

* Same number reported for one or more other months.

MANUFACTURES—ILLINOIS.

TABLE 43.—DETAILED STATEMENT OF ALL INDUSTRIES

INDUSTRY AND CITY.		Number of establishments	PERSONS ENGAGED IN THE INDUSTRY.							WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.					Capital.	
			Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc.		Wage earners.			Total.	16 and over.		Under 16.		
						Male.	Female.	Average number.	Number, 15th day of—			Male.	Female.	Male.		Female.
									Maximum month.	Minimum month.						
CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.																
1	CHICAGO—Continued.	14	909	1	41	163	68	636			693	683	9	1	Dollars, 3,828,512	
2	Gas machines and gas and water meters.	4	121		13	17	8	83	Au 99	Mh 63	94	89	5		489,630	
3	Gas meters and water meters.	10	788	1	28	146	00	553	Au 628	Ap 460	599	594	4	1	3,338,882	
4	All other.	3	19	4	2		1	12	Ja 10	Se 9	10	5	5		26,724	
5	Glass.	44	612	26	40	16	33	497			501	367	122	9	842,156	
6	Glass, cutting, staining, and ornamenting.	4	37	2	3		2	30	No 40	Ap 24	30	37	2		41,340	
7	Decalcomania work on glass.	40	576	24	37	16	31	467	Au 477	Se 456	462	330	120	9	800,816	
8	All other.	6	155	8	11	1	7	133	De 136	Je 131	135	71	56	5	117,098	
9	Gold, leaf and foil.	21	327	12	36	20	28	231	Se 248	Ap 223	238	195	36	5	569,994	
10	Hand stamps.	57	2,547	36	161	127	108	2,115			2,332	2,107	201	21	8,944,700	
11	Hardware.	20	637	12	45	33	32	515	Au 569	Ja 460	574	523	43	8	1,635,745	
12	Locks and builders' hardware.	6	146	3	15	6	7	115	Au 133	Ja 73	131	104	24		339,076	
13	Vehicle hardware.	31	1,764	21	101	88	69	1,485	No 1,634	Je 1,364	1,627	1,480	134	13	6,969,879	
14	All other.	7	53	5	3	3	2	40	(*) 40	(*) 40	40	15	23	1	115,882	
15	Hat and cap materials.	5	55	1	8	9	1	36	Se 38	Ja 34	34	21	13		140,288	
16	Hats, fur-felt.	44	979	27	77	89	45	741	De 807	Fe 674	801	324	451	10	2,403,916	
17	House-furnishing goods, not elsewhere specified.	33	701		85	42	11	563	Jy 721	Ja 368	537	536	1		8,291,270	
18	Ice, manufactured.	11	143	6	22	23	13	79	De 88	Ja 72	88	85	1	2	787,507	
19	Ink, printing.	7	536		31	34	11	460	Ja 528	Se 427	403	403			1,213,798	
20	Iron and steel, doors and shutters.	12	1,313	1	72	70	28	1,142	Ja 1,445	Jy 767	1,132	1,124	8		6,981,627	
21	Iron and steel, forgings, not made in steel works or rolling mills.	10	129	7	15	13	6	88	De 102	Ap 79	101	99	1	1	319,354	
22	Iron and steel, tempering and welding.	3	91	2	5	2	2	80	My 86	Fe 70	87	81	5	1	46,034	
23	Japaning.	72	1,303	63	77	106	81	976	De 1,085	Mh 905	1,078	894	203	11	5,620,214	
24	Jewelry.	38	1,781	28	82	71	83	1,517	De 1,617	Ja 1,411	1,607	314	1,232	13	5,555,090	
25	Knit goods.	13	914	7	42	89	82	694	Oc 768	Jy 612	756	448	287	4	2,473,797	
26	Labels and tags.	4	67	1	7	3	5	41	Je 45	Ja 30	43	39	2	2	121,740	
27	Lapidary work.	35	781	23	38	46	31	643	No 709	Ja 600	686	502	149	13	1,632,086	
28	Leather goods, not elsewhere specified.	20	3,967	25	123	107	40	3,060	Au 3,847	My 3,538	3,617	3,002	490	13	28,547,596	
29	Leather, tanned, curried, and finished.	27	2,474		212	332	40	1,890	Jy 2,207	De 1,559	1,547	1,536	11		29,855,987	
30	Liquors, malt.	31	1,390	10	91	131	65	1,083	De 1,133	Ja 1,035	1,135	870	247	7	4,187,623	
31	Lithographing.	50	2,259	23	124	104	71	1,937	Se 2,090	Ja 1,590	2,014	1,080	209	49	6	4,367,623
32	Looking-glass and picture frames.	3	143		13	12	7	111	De 125	Ja 91	128	128			1,391,374	
33	Lumber and timber products.	116	3,792	60	227	265	99	3,141	No 3,547	Fe 2,616	3,501	3,430	32	39	14,563,977	
34	Lumber, planing-mill products, not including planing mills connected with sawmills.	9	294	2	22	20	16	234	No 259	Je 207	265	264		1	810,946	
35	Machine tools.	82	730	82	57	34	19	538			611	608	2	1	2,535,445	
36	Marble and stone work.	28	159	28	12	3	8	108	My 122	Ja 89	110	110			494,657	
37	Monuments and tombstones.	54	571	64	45	31	11	430	Je 497	Ja 314	501	498	2	1	2,040,788	
38	All other.	50	1,734	45	60	138	37	1,454	Oc 1,698	Ja 1,009	1,638	1,172	422	34	3,662,173	
39	Mattresses and spring beds, not elsewhere specified.	117	5,302	103	184	178	153	4,684			4,964	1,021	3,847	24	72	5,808,241
40	Millinery and lace goods, not elsewhere specified.	89	4,861	81	159	156	125	4,340	Fe 4,659	Je 3,695	4,615	941	3,589	17	68	5,130,851
41	Embroideries, trimmed hats, and hat frames.	28	441	22	25	22	28	344	No 367	Fe 325	349	80	258	7	4	677,300
42	All other.	73	521	79	56	43	12	331	Au 451	Ja 245	302	281	20	1	2,090,481	
43	Mineral and soda waters.	65	473	70	25	8	14	356	De 387	Ja 311	390	369	9	11	510,372	
44	Models and patterns, not including paper patterns.	7	1,179		33	35	29	1,082	My 1,262	Fe 416	1,137	1,097	40		2,456,460	
45	Motorcycles, bicycles, and parts.	6	144	2	6	11	10	115	Jy 128	Ja 91	127	107	16	3	539,341	
46	Musical instruments, organs.	22	5,452	6	113	245	229	4,854	De 5,126	Ja 4,368	5,124	4,561	429	92	42	30,015,411
47	Musical instruments, pianos.	5	524		24	7	15	478	Mh 513	Je 438	452	294	134	14	10	1,148,484
48	Musical instruments, piano and organ materials.	3	465		20	57	37	351	No 381	Se 338	382	108	195	7	72	1,263,708
49	Needles, pins, and hooks and eyes.	17	492	7	38	55	49	343	Mh 389	Jy 243	364	271	86	5	2	933,127
50	Optical goods.	36	3,836	9	227	905	415	2,280	De 2,614	Je 2,129	2,407	2,130	275	2		23,932,016
51	Points.	20	786	4	56	117	66	543	Mh 610	No 475	539	340	188	3	8	2,501,059
52	Paper goods, not elsewhere specified.	147	2,136	85	210	560	524	757			805	428	351	8	18	8,246,855
53	Patent medicines and compounds.	101	1,481	62	135	323	396	565	De 615	Ja 509	614	278	311	8	17	4,891,886
54	Patent and proprietary medicines.	46	655	23	75	237	128	192	Fe 197	De 184	191	150	40		1	3,357,069
55	Patent and proprietary compounds, not elsewhere specified.	4	67		5	13	2	47	De 63	Fe 8	63	63				687,808
56	Paving materials.	69	1,350	34	123	111	395	693	De 799	Ja 590	799	204	561	10	24	4,028,003
57	Perfumery and cosmetics.	32	1,838	12	113	82	74	1,557	De 2,002	Ja 1,076	2,020	1,884	125	9	2	5,299,163
58	Phonographs and graphophones.	23	1,179	7	68	172	57	875	De 921	Ja 803	909	841	50	17	1	1,542,090
59	Photo-engraving.	12	790	5	48	89	47	601	No 671	Ja 508	643	548	95			1,429,812
60	Photographic apparatus.	46	1,699	30	108	144	66	1,353	Oc 1,568	Mh 1,185	1,539	695	818	10	16	6,349,009
61	Pickles, preserves, and sauces.	10	122	9	9	11	10	83	No 111	Ja 67	99	59	40			252,604
62	Pocketbooks.	963	26,489	752	1,880	2,184	2,237	19,936			21,985	16,199	4,962	474	350	64,581,605
63	Printing and publishing, book and job.	797	22,760	667	1,076	1,358	957	18,702	De 20,420	Ap 17,414	20,646	15,230	4,615	453	348	48,282,648
64	Job printing.	166	3,729	85	304	826	1,280	1,234	Se 1,345	Ja 1,133	1,339	969	847	21	2	16,298,957
65	Book publishing and printing, linotype work, and typesetting.	26	241	18	22	24	66	111	De 126	Ja 99	124	64	56	4		677,430
	Printing and publishing, music.															

¹ Includes water wheels and turbines (irrespective of ownership of water supply), and water motors (operated by water from city mains).

² Chiefly electric motors operated by rented (or purchased) current; other power included (chiefly shaft-belt or transmitted power from neighboring power plants).

COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

EXPENSES.								Value of products.	Value added by manufacture.	POWER.					
Salaries and wages.			For contract work.	Rent and taxes.		For materials.				Primary horsepower.					Electric horsepower generated in establishments reporting.
Officials.	Clerks, etc.	Wage earners.		Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.			Total.	Owned.	Rent- ed. ²			
										Steam engines (not turbines).	Steam turbines.	Internal-combustion engines.	Water power. ¹		

CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.

Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.					
125,365	340,099	686,674	1,300	10,708	35,319	1,397,593	19,669	2,798,620	1,381,367	423	30	115	278	59	1
35,110	41,966	105,896	1,300	3,120	4,721	137,706	4,198	371,891	229,987	166		115	51	59	2
90,255	298,133	580,678		7,588	30,598	1,259,887	15,471	2,426,738	1,151,380	267	30		227		3
3,101	156	9,787		910	167	25,804	824	46,305	19,617	8			8		4
110,812	60,521	429,052	532	49,549	12,005	908,381	17,873	1,918,505	997,301	181			181		5
8,183	2,378	35,765		5,120	161	22,459	992	88,257	64,806	33			33		6
102,020	58,143	393,287	532	44,429	11,844	880,872	16,881	1,830,248	932,495	148			148		7
26,491	8,117	130,099	6,369	2,880	2,919	253,153	2,813	470,429	214,463	34			34		8
127,368	56,879	248,731	9,600	24,648	10,381	339,222	10,749	991,140	641,169	160			125		9
675,995	319,818	2,542,133	5,096	94,003	497,063	4,332,619	113,717	10,589,350	6,143,014	2,776	750	15	2,011	500	10
133,370	93,028	559,051		46,879	29,158	755,808	31,217	2,007,163	1,220,078	591			591		11
71,508	9,989	130,337		12,872	6,692	333,066	4,945	733,622	395,611	118		15	103		12
371,117	215,901	1,852,745	5,096	34,252	461,213	3,243,685	77,555	7,848,505	4,527,325	2,067	750		1,317	500	13
7,025	4,918	30,219		4,304	1,147	257,107	1,083	380,571	122,381	18			18		14
24,158	23,995	44,102	18,000	4,830	4,142	137,563	1,674	344,396	155,159	40	25		15		15
265,337	250,606	628,471	6,018	86,578	118,110	3,770,055	34,062	6,023,875	2,219,758	1,128	365		763	67	16
459,820	63,442	971,025		4,201	346,521	260,185	710,871	4,988,144	4,017,588	21,099	2,775	1,130	17,194	579	17
136,565	62,019	103,142		20,735	24,274	743,094	14,857	1,391,492	633,541	980			980		18
136,923	50,481	642,835	4,225	14,195	16,322	1,208,411	20,301	2,367,992	1,079,280	500			500		19
392,583	135,541	1,620,042		22,365	454,001	4,265,442	307,228	5,076,103	3,593,433	5,202	159	1,885	3,043	2,032	20
53,242	22,196	111,203	13,780	9,398	7,622	233,208	9,402	486,324	243,624	166	75		91		21
10,540	3,730	65,046		6,456	330	19,853	5,214	136,148	111,081	22			22		22
400,813	253,648	1,285,440	108,638	106,133	199,597	2,585,411	17,924	6,014,680	3,411,345	429	100		329	150	23
313,999	358,496	1,079,022	5,233	92,546	143,733	3,294,489	36,461	6,023,311	2,602,361	870	415		425	245	24
221,850	229,419	627,888	10,787	38,898	133,004	1,295,888	24,627	3,428,419	2,107,909	637		298	339	14	25
16,100	7,305	52,218		4,740	0,710	82,992	1,448	312,681	228,271	25			25		26
168,583	102,804	630,802	312	44,540	43,357	2,211,280	24,868	3,807,092	1,570,944	501	175		320	1	27
909,364	333,776	4,810,139	411,113	30,248	1,006,206	33,888,856	406,241	50,519,773	16,264,670	11,049	8,454	200	2,305	6,051	28
941,284	1,015,365	2,739,491	4,901	8,500	4,310,266	4,701,463	577,333	20,572,801	15,294,005	16,515	14,203	1,010	1,302	6,078	29
416,003	440,517	1,373,085	157,546	82,837	112,157	2,199,558	44,283	6,014,666	3,770,825	1,176	127	30	1,019	130	30
471,271	346,749	2,082,157	3,280	137,199	2,082,948	2,624,897	83,929	7,087,301	4,378,475	2,107	660		1,457		31
126,492	39,706	136,855		17,253	102,453	681,104	37,338	1,436,135	717,633	640	440		100	64	32
809,603	484,755	3,878,203	25,652	196,361	312,669	14,112,147	145,207	23,697,294	8,779,940	14,424	9,320	200	4,014	1,015	33
110,862	37,026	303,551		15,684	13,696	216,003	10,487	1,017,842	791,352	415		6	409		34
140,531	81,717	774,791	40,899	35,552	31,103	1,818,235	72,948	3,801,254	1,970,071	2,654	345	397	1,912	90	35
29,845	14,736	168,984	8,172	12,676	7,552	319,849	9,974	802,607	472,784	204			192		36
110,686	66,981	605,807	32,727	22,886	23,551	1,498,383	62,074	3,058,647	1,497,287	2,450	345		1,720	90	37
239,990	280,823	1,478,702	365	95,261	58,900	4,300,478	65,858	7,992,375	3,599,044	1,704	550		1,179	245	38
653,351	602,551	4,388,415	58,528	262,127	204,849	10,488,075	89,361	19,523,877	8,945,541	1,245	665		580	460	39
580,991	515,453	4,075,740	35,021	231,621	193,671	9,685,147	83,347	17,823,874	8,055,380	1,120	665		455	460	40
72,300	87,098	312,675	23,507	30,506	11,178	803,828	6,014	1,700,003	890,161	125			125		41
138,005	48,682	404,422	7,420	33,883	81,442	1,088,523	20,752	2,572,469	1,463,193	342		28	314		42
67,761	25,289	577,772	4,798	42,425	8,901	255,659	13,395	1,228,990	960,002	474		4	470		43
216,698	44,500	1,329,104		97,615	73,000	1,937,440	35,997	4,852,039	2,878,602	1,370	925	270	175	905	44
31,800	19,509	137,854	1,796	9,920	12,927	189,837	6,153	510,347	314,357	57			57		45
700,627	721,772	5,397,594		101,822	858,087	8,632,921	178,772	22,214,675	13,352,882	4,622	3,100		1,522	1,199	46
88,557	23,006	430,584		8,154	25,196	1,136,736	22,565	1,957,496	799,195	823	740		58	1,095	47
223,075	159,092	284,358		10,969	49,937	738,352	18,067	1,941,030	1,184,611	193			193		48
156,688	94,005	364,501	38,044	54,695	44,247	1,107,539	10,096	2,450,877	1,333,242	137			137		49
1,044,338	2,019,649	2,282,846	889	74,027	503,445	26,752,197	481,020	39,190,068	11,056,851	10,108	3,835	25	6,248	3,521	50
300,080	309,175	607,529	2,000	38,611	288,797	2,972,047	28,981	5,588,956	2,587,928	756			756		51
1,109,703	1,608,446	715,722	17,964	143,157	685,151	5,981,396	42,901	15,595,717	9,571,420	893	275		617	206	52
591,585	1,011,703	472,650	4,650	101,554	547,119	3,059,429	24,014	9,502,090	6,388,047	372	30		341		53
518,178	598,743	243,072	13,314	41,603	138,032	2,891,967	18,287	6,098,627	3,183,373	521	245		276	206	54
13,257	13,848	56,651		10,333	2,914	70,442	11,692	216,675	134,541	926			926		55
508,349	408,381	764,349	2,887	88,899	277,846	3,297,400	15,897	8,532,247	5,218,980	345			345		56
333,979	238,239	1,708,139	62,223	297,267	6,056,612	69,450	69,450	10,983,051	4,801,559	946	250		736	300	57
335,360	346,457	1,325,767	44,123	81,596	90,124	552,170	33,146	3,804,550	3,189,235	437			437		58
160,910	118,576	634,852		27,910	44,397	959,475	18,135	2,575,256	1,597,640	511			511		59
394,523	311,499	1,169,370	3,054	79,404	162,177	8,156,395	120,757	12,824,790	4,187,668	1,973	1,333	9	631	582	60
63,260	27,031	82,130		8,880	1,759	161,179	847	376,511	214,485	22			22		61
5,792,585	5,968,049	25,613,800	5,477,324	1,825,220	1,387,083	39,152,602	734,035	104,559,091	64,668,794	21,141	4,136	442	16,593	3,765	62
4,642,959	3,121,936	23,953,817	990,968	1,541,610	1,238,965	30,835,945	694,857	86,046,355	48,515,553	20,566	4,136	442	15,988	3,765	63
1,149,629	2,846,113	1,559,988	4,486,356	283,610	148,123	2,316,717	39,778	18,509,736	16,153,241	575			575		64
82,583	93,053	112,172	157,121	20,495	36,253	375,920	3,287	1,211,810	832,603	74			74		65

* Same number reported for one or more other months.

* Same number reported throughout the year.

TABLE 43.—DETAILED STATEMENT OF ALL INDUSTRIES

INDUSTRY AND CITY.		Number of establishments	PERSONS ENGAGED IN THE INDUSTRY.							WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.						Capital.		
			Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc.		Wage earners.			Total.	16 and over.		Under 16.				
						Male.	Female.	Average number.	Number, 15th day of—			Male.	Female.	Male.	Female.			
									Maximum month.	Minimum month.								
CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.																		
CHICAGO—Continued.																		
1	Printing and publishing, newspapers and periodicals.	410	12,603	147	1,045	2,924	2,642	5,845					5,963	4,896	916	87	64	Dollars. 39,620,523
2	Printing and publishing.	36	4,352	15	231	831	756	2,519	Ap	2,568	Mh	2,475	2,543	2,398	08	46	1	20,084,215
3	Printing, publishing, and job printing.	65	4,756	27	215	1,203	470	2,841	De	2,897	Ap	2,778	2,901	2,237	571	41	52	12,392,106
4	Publishing without printing.	309	3,495	105	599	890	1,410	485	No	523	Jy	454	519	261	247		11	7,150,202
5	Printing materials.	11	440	6	24	37	34	339	No	444	Ja	242	315	270	35	1		5,298,897
6	Pumps, not including power pumps.	8	204	3	15	8	10	168	Au	180	Ja	157	177	145	32			402,716
7	Regalia, and society badges and emblems.	11	145	5	9	19	14	98	Mh	105	Ap	87	118	52	05	1		204,169
8	Roofing materials.	14	1,526		110	172	90	1,154	Au	1,317	Ja	933	1,244	1,242	2			8,108,529
9	Rubber tires, tubes, and rubber goods, not elsewhere specified.	12	511	5	28	31	23	424	No	544	Ja	326	520	373	144	2	1	1,639,449
10	Saddlery and harness.	33	307	34	15	12	8	238	De	277	Jy	209	290	278	12			1,175,812
11	Sausage, not made in slaughtering and meat-packing establishments.	49	953	47	45	62	30	779					818	573	245			3,112,295
12	Sausage.	43	592	42	29	39	19	463	Jy	479	Fe	437	477	416	01			1,374,627
13	Sausage casings.	6	361	5	16	13	11	316	Jy	361	Fe	286	341	187	184			1,737,768
14	Scales and balances.	13	481	7	28	26	21	399	No	432	Je ^s	371	411	378	23	10		1,541,859
15	Shirts.	22	579	10	41	38	25	465	No	506	Ja	406	497	118	375		4	1,023,972
16	Signs and advertising novelties.	98	2,031	69	141	319	136	1,366					1,474	901	500	34	39	4,828,813
17	Electric and other signs.	63	871	46	79	182	53	511	De	583	Ja	442	585	514	68	8		2,649,353
18	Advertising novelties.	35	1,160	23	62	137	83	855	No ^s	909	Ja	721	889	387	432	31	39	2,170,460
19	Slaughtering and meat packing.	46	52,423	19	1,373	4,076	1,260	45,695	Ja	55,828	My	42,158	45,011	39,341	5,649	16	5	395,715,568
20	Smelting and refining, not from the ore.	14	362	16	20	21	12	293	Se	322	Ja	267	319	313	6			3,400,549
21	Soap.	26	2,995	8	120	456	172	2,239	Se	2,471	Mh	1,930	2,468	1,509	889	11	59	14,734,246
22	Sporting and athletic goods.	27	540	16	39	28	28	429	De	530	Jy	369	539	392	133	4	5	1,406,764
23	Stamped and enameled ware, not elsewhere specified.	17	1,250	3	49	61	52	1,085	Fe	1,166	My	1,020	1,103	721	381		1	3,806,636
24	Statuary and art goods.	15	513	9	24	31	11	438	De	493	Ja	394	494	477	13	4		822,876
25	Stencils and brands.	5	18					13	De	14	Mh	12	15	12	1	2		20,412
26	Stoves and hot-air furnaces.	22	1,602	4	102	151	109	1,230					1,376	1,364		12		5,361,769
27	Stoves and ranges.	13	1,370	2	80	127	89	1,072	Oc	1,246	Ja	607	1,205	1,193		12		4,760,685
28	Hot-air furnaces.	9	232	2	22	24	20	164	Oc	182	Mh	147	171	171				562,074
29	Stoves, gas and oil.	6	53	2	4	4	7	30	No ^s	80	Mh	12	80	78	2			926,726
30	Structural ironwork, not made in steel works or rolling mills.	89	3,751	42	248	435	103	2,928	Ja	3,490	Jo	2,691	2,995	2,992	3			14,441,174
31	Tinware, not elsewhere specified.	19	4,183	14	100	186	103	3,780	Au	4,164	Ap	3,482	3,489	2,144	1,340	5		21,947,040
32	Tobacco, cigars and cigarettes.	665	2,587	738	60	55	12	1,722	Ja	2,035	Se	1,028	2,160	1,488	669	3		2,669,647
33	Tools, not elsewhere specified.	90	3,051	63	188	150	175	2,475	De	2,663	My	2,296	2,707	2,581	112	11	3	8,422,682
34	Toys and games.	25	541	20	32	14	25	450	No	602	Ja	275	561	281	248	21	11	718,677
35	Trunks and valises.	56	1,480	54	83	130	41	1,172	De	1,290	Ja	1,031	1,303	1,095	198	4	0	3,599,684
36	Type founding.	3	16	3	1			12	(¹)	12	(¹)	12	13	11	2			28,002
37	Typewriters and supplies.	8	64	5	4	3	49	49	Jy	52	Ja	42	51	41	7	3		123,786
38	Varnishes.	30	1,036	6	100	265	143	522	Oc	572	Fe	455	546	485	59	1	1	8,471,720
39	Vinegar.	6	163	5	8	16	7	127	Au	143	De	107	107	102	5			1,618,296
40	Wall plaster and composition flooring.	4	87		13	10	2	62	Au	88	Fe	30	66	66				278,251
41	Washing machines and clothes wringers.	9	454	1	28	25	23	377	No	475	Au ^s	317	483	476	5	2		1,367,276
42	Waste, cotton.	4	135	3	11	5	3	113	No ^s	118	Fe	108	118	89	29			416,876
43	Window and door screens and weather strips.	18	226	12	26	8	10	170	My	204	Fe	123	175	142	32	1		709,719
44	Wirework, not elsewhere specified.	33	414	30	41	28	25	290	Au	316	Fe	275	298	285	10	3		728,231
45	Wood, turned and carved.	23	576	15	24	61	22	454	De	500	Ja	397	497	453	30	11	3	832,593
46	Wooden goods, not elsewhere specified.	5	159	3	10	16	5	125	My	142	Ja	110	126	121	3	2		440,412
47	Wool pulling.	5	69	5	6	2		56	De	83	My	30	83	83				187,822
48	All other industries*	974	103,192	581	4,092	9,913	4,924	83,682					89,378	73,291	14,986	365	736	586,406,519

*All other industries embrace—
Aeroplane, seaplane, and airships, and parts. 1
Agricultural implements. 4
Artificial flowers. 11
Artificial limbs. 10
Asbestos products, not including steam packing. 5
Babbitt metal and solder. 9
Bags, other than paper, not including bags made in textile mills. 8
Bags, paper, not including bags made in paper mills. 3
Baking powders and yeast. 10
Baskets, and rattan and willow ware. 9
Belting and hose, rubber. 1
Belting and hose, woven, other than rubber. 2
Belting, leather. 8
Blacking, stains, and dressings. 22
Boot and shoe cut stock. 5
Boot and shoe findings. 4

Canning and preserving, fruits and vegetables. 2
Card cutting and designing. 4
Carpet, rag. 11
Carriage and wagon materials. 2
Cars and general shop construction and repairs by electric-railroad companies. 7
Chewing gum. 6
Chocolate and cocoa products. 1
Clocks. 4
Cloth, sponging and refinishing. 4
Clothing, horse. 3
Coffee and spice, roasting and grinding. 30
Coke, not including gas-house coke. 2
Combs and hairpins, not made from metal or rubber. 1
Condensed milk. 2
Cordage and twine. 2
Cordials and flavoring sirups. 8
Cork, cutting. 3
Cotton goods. 5

Cotton small wares. 2
Crucibles. 1
Drug grinding. 2
Dyeing and finishing textiles, exclusive of that done in textile mills. 9
Dyestuffs and extracts—natural. 3
Enameling. 5
Engines, steam, gas, and water. 6
Envelopes. 13
Feathers and plumes. 2
Felt goods. 1
Fertilizers. 3
Files. 1
Firearms. 1
Fire extinguishers, chemical. 3
Foundry supplies. 8
Galvanizing. 5
Gas, illuminating and heating. 2
Gloves and mittens, cloth, not including gloves made in textile mills. 2
Gloves and mittens, leather. 28
Glue, other than fish. 7

Gold and silver, reducing and refining, not from the ore. 4
Graphite, ground and refined. 1
Grease and tallow, not including lubricating greases. 6
Haircloth. 1
Hair work. 17
Hammocks. 1
Hardware, saddlery. 1
Hats and caps, other than felt, straw, and wool. 46
Hats, straw. 11
Hats, wool-felt. 4
Horseshoes, not made in steel works or rolling mills. 1
Ink, writing. 4
Instruments, professional and scientific. 31
Iron and steel, blast furnaces. 4
Iron and steel, steel works and rolling mills. 10
Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills. 9

¹ Includes water wheels and turbines (irrespective of ownership of water supply), and water motors (operated by water from city mains).

² Chiefly electric motors operated by rented (or purchased) current; other power included (chiefly shaft-belt or transmitted power from neighboring power plants).

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EXPENSES.								Value of products.	Value added by manufac- ture.	POWER.					
Salaries and wages.				Rent and taxes.		For materials.				Primary horsepower.					Elec- tric horse- power gener- ated in estab- lish- ments report- ing.
Officials.	Clerks, etc.	Wage earners.		For contract work.	Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.			Fuel and rent of power.	Total.	Owned.				Rent- ed.^{2}

Dollars. 4,353,295	Dollars. 8,205,629	Dollars. 7,630,247	Dollars. 5,456,149	Dollars. 847,134	Dollars. 1,961,888	Dollars. 24,800,876	Dollars. 309,780	Dollars. 70,741,226	Dollars. 46,124,564	7,698	1,925	40	5,733	1,097
1,200,800	2,954,456	3,040,953	233,592	127,045	1,309,497	12,417,512	145,064	28,387,010	15,823,534	2,961	10	.....	2,951	.....
749,505	2,190,285	3,808,612	190,343	394,022	205,465	7,497,463	143,330	17,817,700	9,670,907	4,378	1,615	.....	2,763	1,091
2,342,030	3,060,888	520,682	5,006,214	320,067	446,431	4,301,001	20,492	25,036,516	20,024,122	359	300	40	19	6
109,248	142,005	360,157	.....	45,232	81,569	560,448	28,053	1,812,376	1,102,975	719	.....	46	674	.....
72,157	21,470	141,657	2,849	4,838	15,897	300,524	7,170	789,234	431,535	132	.....	40	92	.....
22,255	26,802	94,809	0,191	13,017	3,746	256,559	3,101	499,235	239,515	71	.....	.....	71	.....
376,778	384,863	1,520,700	379	8,763	200,389	8,705,655	364,008	13,744,658	4,584,005	2,411	380	.....	2,031	311
178,248	104,046	479,610	.....	10,433	87,901	1,315,530	60,355	2,867,089	1,491,204	1,357	300	.....	1,037	.....
52,292	25,438	305,902	.....	31,821	28,262	1,219,661	8,804	1,941,086	712,621	136	.....	.....	136	.....
174,321	93,553	1,140,003	200,000	43,546	190,912	7,245,349	75,205	2,497,144	2,497,144	1,399	101	15	1,283	.....
134,020	71,767	644,447	200,000	29,111	97,933	6,066,318	68,132	7,854,520	1,720,070	1,310	101	15	1,194	.....
40,295	21,796	505,150	.....	14,435	32,979	1,170,031	7,073	1,963,178	777,074	89	.....	.....	89	.....
85,753	64,887	611,501	.....	24,351	26,356	407,921	24,779	1,355,906	863,206	478	.....	.....	478	.....
200,907	110,002	454,784	12,107	66,383	59,209	1,638,138	6,703	3,033,885	1,389,044	80	.....	.....	80	.....
407,042	349,798	1,820,920	111,523	82,770	68,672	2,218,935	53,008	5,853,444	3,580,001	598	65	48	785	11
155,628	125,158	903,870	11,163	47,050	14,909	1,087,798	17,785	2,498,152	1,392,509	374	65	.....	309	10
252,114	224,040	633,050	100,355	34,811	53,783	1,131,137	36,123	3,355,292	2,188,032	524	.....	46	476	1
4,534,883	7,635,100	60,894,104	10,775	175,009	3,856,076	951,701,019	6,025,316	1,083,000,049	125,303,714	67,374	39,548	8,513	19,308	29,228
90,520	54,506	421,291	.....	10,520	41,770	8,315,052	79,466	9,952,370	1,537,852	540	.....	18	522	.....
442,175	832,109	2,339,391	10,054	50,678	150,149	18,932,424	395,260	25,504,617	6,176,933	2,488	1,020	25	1,443	1,095
140,062	64,198	454,760	7,020	26,236	58,541	1,087,129	24,764	2,151,962	1,040,073	471	.....	.....	471	.....
190,402	161,133	1,045,800	14,977	69,751	240,538	2,001,453	68,459	4,780,782	2,650,870	1,231	175	139	917	175
68,361	40,477	520,310	7,949	18,108	21,106	396,086	14,019	1,640,453	1,229,448	160	60	.....	100	225
.....	.....	14,359	.....	1,										

Pulp goods.....	7	2	Steel barrels, drums, and tanks
Pumps, steam and other power.....	7	7	Stereotyping and electrotyping
Refrigerators.....	1	8	Sulphuric, nitric, and mixed acids
Rules, ivory and wood.....	1	1	Surgical appliances.....
Safes and vaults.....	1	1	Suspenders, garters, and elastic woven goods
Sand and emery paper and cloth.....	12	1	Theatrical scenery.....
Saws.....	22	12	Tin foil.....
Screws, machine.....	22	2	Tobacco, chewing and smoking, and snuff.....
Sewing machines and attachments.....	2	3	Umbrellas and canes.....
Shipbuilding, steel, new vessels.....	1	7	Upholstering materials, not elsewhere specified
Shipbuilding, wooden.....	3	4	Vault lights and ventilators.....
Show cases.....	7	9	Wall paper, not made in paper mills
Silk goods, including throwsters.....	4	10	Watchcases.....
Silversmithing and silverware.....	4	10	Watch materials, except watchcases
Soda-water apparatus.....	9	29	Windmills.....
Springs, steel, car and carriage, not made in steel works or rolling mills	10	29	Window shades and fixtures.....
Stationery goods, not elsewhere specified	10	16	Wire.....
Steam fittings and steam and hot-water heating apparatus.....	17	17	Wool scouring.....
Steam packing.....	17		

4 Same number reported throughout the year.

MANUFACTURES—ILLINOIS.

TABLE 43.—DETAILED STATEMENT OF ALL INDUSTRIES

INDUSTRY AND CITY.	Number of establishments	PERSONS ENGAGED IN THE INDUSTRY.								WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.				Capital.
		Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc.		Wage earners.		Total.	16 and over.		Under 16.		
					Male.	Female.	Average number.	Number, 15th day of—		Male.	Female.	Male.	Female.	
								Maximum month.	Minimum month.					

CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.

1	EAST ST. LOUIS—All industries.	157	10,637	97	306	1,007	442	8,785	Ja	9,804	My	7,833	10,257	9,775	458	21	3	Dollars.
2	Automobile repairing.....	6	33	9	2	1	21	Se	26	Ap	18	22	22	71	7			22,463
3	Bread and other bakery products.....	24	100	24	4	3	70	De	77	Ja	66	78	78	71				178,254
4	Cars and general shop construction and repairs by steam-railroad companies.....	7	1,262		21	85	14	1,142	De	1,196	Je	1,085	1,196	1,196				1,165,550
5	Copper, tin, and sheet-iron work.....	13	44	14		1	29	Oc	31	Fe	25	31	30		1			37,335
6	Flour-mill and gristmill products.....	6	403	1	27	59	27	289	Au	313	Jy	255	303	303				3,317,495
7	Food preparations, peanut butter and sweetening sirups, other than cane.....	4	562	1	18	194	153	196	Je	230	Oc	179	219	214	2			1,806,999
8	Mineral and carbonated waters.....	5	20	5	6	1	8	Se	14	Ja	4	13	11			2		66,391
9	Paints.....	5	219	1	18	23	10	167	Oc	195	Ja	137	182	182				1,953,789
10	Printing and publishing, book and job.....	5	26	4	2		3	17	Mh	18	De	16	16	13	3			29,429
11	Saddlery and harness.....	3	5	3				2	(4)		(4)	2	2	2				2,945
12	Tobacco, cigars.....	8	44	9	3	2	2	31	My	38	Jy	22	36	28	8			60,404
13	All other industries *.....	71	7,913	29	205	641	225	6,813					8,162	7,703	437	19	3	46,661,887

*All other industries embrace—
Artificial stone products..... 1
Automobile bodies and parts..... 1
Awnings, tents, and sails..... 1
Baking powders..... 2
Boot and shoe findings..... 1
Boxes, wooden packing, except cigar boxes..... 1

Brooms, from broom corn..... 1
Carriages and wagons, repair work only..... 1
Cars and general shop construction and repairs by electric-railroad companies..... 2
Cars, steam-railroad, not including operations of railroad companies..... 2

Chemicals..... 4
Clothing, men's..... 2
Confectionery, ice cream..... 3
Cooperage, hogsheds and barrels..... 1
Druggists' preparations..... 2
Electrical machinery, apparatus, and supplies..... 1

Fertilizers..... 2
Fireworks..... 1
Flax and hemp, dressed..... 1
Foundry and machine-shop products..... 7
Gas, illuminating and heating..... 1
Glass..... 1
Ice, manufactured..... 1

1	PEORIA—All industries.....	253	9,007	214	413	850	444	7,977	Jy	8,447	Se	7,043	8,580	6,850	1,516	188	25	44,742,730
2	Artificial stone products.....	5	42	6	4	4		28	Se	45	Ja	13	34	34				65,670
3	Automobile repairing.....	8	75	12	3	2		58	Jy	67	Au	46	68	68				82,552
4	Brass and bronze products.....	3	132	1	9	0	9	107	De	132	Oc	68	127	115	12			321,752
5	Bread and other bakery products.....	33	409	38	10	39	34	288	De	295	Au	278	296	194	100	2		656,170
6	Confectionery and ice cream.....	6	99	5	10	10	3	71	Au	92	Ja	51	76	65	10	1		521,049
7	Cooperage, hogsheds and barrels.....	3	245		16	4	2	223	Oc	266	Mh	173	229	218	10	1		822,096
8	Flour-mill and gristmill products.....	4	52	3	4	10	6	20	No	31	Mh	28	30	30				576,565
9	Foundry and machine-shop products.....	15	257	10	18	4	10	215	Jy	262	Oc	171	223	209	14			584,476
10	Ice, manufactured.....	3	93		9	7	1	76	Jy	113	Ja	47	65	64	1			561,814
11	Lumber, planing-mill products, not including planing mills connected with sawmills.....	6	157	1	11	5	2	138	Se	164	Ja	100	155	155				627,232
12	Marble and stone work.....	7	108	13	11	19	3	62	Au	73	Ja	51	62	62				322,408
13	Mineral and carbonated waters.....	4	40	3	9	10	3	15	Oc	19	Ja	10	26	21	5			166,968
14	Printing and publishing, book and job.....	21	274	22	24	22	17	189	De	203	Ja	173	202	144	47	9	2	1,408,742
15	Printing and publishing, newspapers and periodicals.....	9	429	8	27	67	43	284	Mh	290	Ap	278	288	115	26	147		547,617
16	Tobacco, cigars.....	27	216	27	5	4	3	177	De	269	Ap	135	253	94	158	1		279,758
17	All other industries *.....	99	7,279	65	243	648	306	6,017					6,446	5,262	1,183	27	24	37,262,763

*All other industries embrace—
Agricultural implements..... 3
Artificial limbs..... 2
Automobile bodies and parts..... 3
Awnings, tents, and sails..... 1
Baking powders..... 1
Bookbinding and blank-book making..... 3
Boxes, cigar..... 1
Boxes, set-up paper boxes and shipping containers..... 2

Boxes, wooden packing, except cigar boxes..... 2
Butter..... 2
Canning and preserving, vegetables..... 2
Carpets, rag..... 1
Carriages and wagons, including repairs..... 2
Cars and general shop construction and repairs by electric-railroad companies..... 1

Cars and general shop construction and repairs by steam-railroad companies..... 2
Cleansing and polishing preparations..... 2
Clothing, men's..... 2
Clothing, women's..... 2
Coffee, roasting and grinding..... 1
Coffins, burial cases, and undertakers' goods..... 1
Copper, tin, and sheet-iron work..... 6

Cordage and twine..... 1
Druggists' preparations..... 1
Food preparations, peanut butter and sweetening sirups, other than cane..... 2
Furniture..... 2
Gas, illuminating and heating..... 1
Gas machines..... 1
Gloves and mittens, cloth, not including gloves made in textile mills..... 1

¹ Includes water wheels and turbines (irrespective of ownership of water supply), and water motors (operated by water from city mains).

² Chiefly electric motors operated by rented (or purchased) current; other power included (chiefly shaft-belt or transmitted power from neighboring power plants).

COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

EXPENSES.								Value of products.	Value added by manufacture.	POWER.					
Salaries and wages.			For contract work.	Rent and taxes.		For materials.				Primary horsepower.					Electric horsepower generated in establishments reporting.
Officials.	Clerks, etc.	Wage earners.		Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.			Total.	Owned.				
											Steam engines (not turbines).	Steam turbines.	Internal-combustion engines.	Water power. ¹		Rent- ed.^{2}

CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.

Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.							
1,303,806	1,765,863	10,936,425	93,983	51,432	1,574,508	51,374,286	2,528,502	77,292,812	23,389,034	40,627	27,914	2,571	175	.....	9,967	27,742	1
4,445	240	26,931	.....	5,250	315	30,203	907	80,532	49,422	30	.....	.....	.....	.....	30	.....	2
11,151	7,736	95,464	1,714	9,440	1,895	316,156	14,405	555,187	225,620	85	.....	.....	.....	.....	85	.....	3
57,789	148,800	1,878,500	.....	.....	6,091	1,068,332	48,334	3,265,803	2,149,137	650	140	.....	.....	.....	516	35	4
.....	416	36,168	.....	1,846	276	51,181	524	123,478	71,773	2	.....	.....	.....	.....	2	1	5
153,610	128,676	316,820	.....	.....	261,395	13,125,074	52,026	14,785,792	1,808,692	3,281	1,560	.....	175	.....	1,546	.....	6
55,311	194,564	191,020	16,691	3,000	95,032	7,162,494	47,715	8,125,948	915,739	1,118	275	.....	.....	.....	843	.....	7
7,820	324	9,218	.....	612	3,728	27,355	862	55,515	27,298	30	.....	.....	.....	.....	30	.....	8
84,623	55,314	188,204	.....	2,380	62,556	1,430,342	50,313	2,198,681	700,026	915	825	.....	.....	.....	90	.....	9
3,120	2,460	20,807	.....	2,112	232	33,021	744	91,527	57,762	18	.....	.....	.....	.....	18	.....	10
.....	.....	1,500	.....	780	50	3,132	65	8,095	4,898	.....	.....	.....	.....	.....	.....	.....	11
2,690	3,186	28,299	.....	1,140	12,789	46,144	195	104,673	58,334	.....	.....	.....	.....	.....	.....	.....	12
918,257	1,224,087	8,143,365	75,578	24,672	1,130,154	28,071,852	2,312,502	47,896,581	17,512,227	34,462	25,114	2,571	.....	.....	6,807	27,706	13

Iron and steel, steel works and rolling mills.....	1	Lumber, planing-mill products, not including planing mills connected with sawmills.....	2	Petroleum, refining.....	3	Smelting and refining, zinc.....	1
Iron and steel, forgings, not made in steel works or rolling mills.....	2	Marble and stone work.....	1	Pickles and sauces.....	1	Springs, steel, railway.....	1
Iron and steel, welding.....	1	Minerals and earths, ground or otherwise treated.....	1	Printing, job.....	2	Structural ironwork, not made in steel works or rolling mills.....	2
Liquors, malt.....	1	Paving materials.....	2	Roofing materials.....	3	Sulphuric, nitric, and mixed acids.....	1
Looking-glass and picture frames.....	1	.....	.....	Signs, other than electric.....	1	Wirework, not elsewhere specified.....	1
.....	.....	.....	.....	Slaughtering and meat packing.....	3	.....	.....

1,505,197	1,790,221	8,151,021	59,071	196,621	1,090,017	34,665,482	1,253,436	57,074,893	21,155,975	25,510	14,079	660	110	.....	10,655	3,117	1
5,191	2,372	26,512	.....	2,070	374	31,498	1,576	74,865	41,791	35	.....	.....	12	.....	23	.....	2
0,372	2,100	70,906	.....	9,171	331	37,655	3,330	138,995	98,010	123	.....	.....	.....	.....	123	.....	3
47,217	18,309	146,277	.....	8,180	46,610	264,823	13,964	607,080	328,293	131	60	.....	.....	.....	71	.....	4
46,194	124,447	231,893	320	24,239	41,196	1,204,494	33,633	2,148,132	910,005	283	.....	.....	.....	.....	283	.....	5
53,800	18,167	69,704	.....	3,708	3,368	359,599	14,245	600,309	226,465	310	.....	.....	.....	.....	310	.....	6
48,510	11,983	227,614	.....	.....	8,376	953,895	7,797	1,474,438	512,746	805	770	.....	.....	.....	35	.....	7
7,500	25,700	34,956	.....	1,200	2,258	613,818	7,827	999,318	287,673	460	100	.....	.....	.....	360	.....	8
42,697	14,027	284,001	300	6,696	15,631	283,608	11,639	741,659	446,509	515	8	.....	.....	.....	507	.....	9
21,064	10,580	84,905	.....	.....	0,787	12,552	56,908	402,685	333,225	1,075	1,075	.....	.....	.....	.....	22	10
33,864	6,992	153,336	.....	3,205	10,411	269,167	7,000	561,844	285,617	368	150	.....	25	.....	193	25	11
22,860	16,507	89,875	2,956	7,140	2,054	179,329	7,468	401,638	214,839	827	500	.....	.....	.....	327	.....	12
9,985	7,613	18,412	.....	3,075	8,564	138,140	1,713	271,078	131,225	32	4	.....	.....	.....	28	.....	13
50,888	32,848	181,935	17,192	13,657	3,264	237,222	6,604	697,024	453,198	260	.....	.....	60	.....	200	4	14
90,078	135,615	183,269	30,429	11,370	6,430	298,447	10,003	1,092,411	783,961	203	.....	.....	.....	.....	203	.....	15
9,928	6,857	124,376	160	3,798	45,907	201,052	690	429,523	227,781	1	.....	.....	.....	.....	1	.....	16
1,009,252	1,350,104	6,222,900	8,614	99,112	888,456	29,530,253	1,068,979	46,523,899	15,874,637	20,082	11,412	660	13	.....	7,991	3,066	17

Grease and tallow, not including lubricating greases.....	1	Liquors, malt.....	2	Pickles, preserves, and sauces.....	2	Structural ironwork, not made in steel works or rolling mills.....	1
Hand stamps.....	1	Malt.....	1	Pumps, not including power pumps.....	1	Tinware, not elsewhere specified.....	1
Hardware, locks.....	1	Mattresses and spring beds, not elsewhere specified.....	2	Saddlery and harness.....	4	Tobacco, smoking.....	1
Ink, writing.....	1	Models and patterns, not including paper patterns.....	1	Scales and balances.....	2	Tools, not elsewhere specified.....	1
Iron and steel, forgings, not made in steel works or rolling mills.....	1	Paints.....	1	Shirts.....	1	Vinegar.....	1
Iron and steel, welding.....	1	Paper and wood pulp.....	1	Slaughtering and meat packing.....	3	Washing machines and clothes wringers.....	1
Jewelry.....	1	Patent medicines and compounds.....	3	Steam fittings and steam and hot-water heating apparatus.....	1	Wirework, not elsewhere specified.....	1
Liquors, distilled, grain alcohol.....	4	Photo-engraving.....	1	Steel barrels, drums, and tanks.....	2	.....	.....
.....	.....	.....	.....	Stoves and hot-air furnaces.....	2	.....	.....

* Same number reported for one or more other months.

* Same number reported throughout the year.

MANUFACTURES—ILLINOIS.

TABLE 43.—DETAILED STATEMENT OF ALL INDUSTRIES

INDUSTRY AND CITY.	Number of establishments	PERSONS ENGAGED IN THE INDUSTRY.								WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.				Capital.	
		Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc.		Wage earners.		Total.	16 and over.		Under 16.			
					Male.	Female.	Average number.	Number, 15th day of—		Male.	Female.	Male.	Female.		
								Maximum month.							Minimum month.

CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.

1	ROCKFORD—All industries...	312	17,760	186	853	980	740	14,992	De	17,124	My	12,516	17,126	13,812	3,204	96	14	Dollars. 68,562,621
2	Artificial stone products.....	4	17	0	3	1	7	8	Jy ^s	12	Ja ^s	1	12	12				44,423
3	Automobile repairing.....	19	116	15	8	1	7	85	Jy ^s	04	Fe	76	88	87	1			174,804
4	Bread and other bakery products.....	28	191	36	4	7	14	130	Mh	177	Ja ^s	123	146	123	23			331,853
5	Clothing, men's.....	4	234	3	13	6	7	205	Au	214	Mh	180	207	24	180	3		470,242
6	Confectionery and ice cream.....	13	180	8	11	9	11	121	No	50	Je	27	123	60	57	3		508,104
7	Confectionery.....	7	63	5	5	9	4	40	Jy	04	De	45	53	18	32	3		264,097
8	Ice cream.....	6	97	3	0		7	81	Je	23	Fe	18	70	42	35	3		253,407
9	Copper, tin, and sheet-iron work.....	9	30	9	1			20	Oc	23	Je	18	23	23				42,677
10	Foundry and machine-shop products.....	25	1,650	15	70	111	47	1,407	De	1,769	My	1,104	1,763	1,279	445	30		4,557,406
11	Furniture.....	32	2,387	1	100	124	65	2,097	De	2,621	Ap	1,524	2,054	2,503	147	4		8,394,258
12	Knit goods.....	5	1,812		34	19	47	1,712	Oc	1,776	Ap	1,632	1,769	795	906	6		8,306,941
13	Machine tools.....	10	2,620	3	92	152	78	2,204	De	2,650	Je	1,700	2,656	2,540	116			9,111,193
14	Marble and stone work, monuments and tombstones.....	5	24	4	3	4		13	My	17	Ja ^s	7	15	15				89,912
15	Models and patterns, not including paper patterns.....	5	30	7	2		1	20	De	28	Ja	14	23	21	1	1		22,573
16	Printing and publishing, book and job.....	16	194	12	20	15	15	132	Oo	143	Fe	114	137	72	60	4	1	401,441
17	Printing and publishing, newspapers and periodicals.....	5	178		17	54	33	74	De ^s	77	My ^s	72	77	76	1			348,511
18	Pumps, not including power pumps.....	4	274		22	9	8	235	De	251	Je	215	134	132	2			927,391
19	Tobacco, cigars.....	5	20	6				14	De	20	My ^s	9	20	11	0			24,427
20	Tools, not elsewhere specified.....	8	111	2	25	3	7	74	Ja	104	Je	48	92	91				257,253
21	All other industries*.....	115	7,794	50	419	475	400	6,441					7,187	5,948	1,195	36	8	34,649,032

*All other industries embrace—	Buttons.....	1	Cleansing preparations.....	1	Gas, illuminating and heating.....	1
Agricultural implements.....	Canning and preserving, vegetables..	1	Cutlery and edge tools, augers, bits, chisels, and planes.....	1	Gas machines.....	1
Automobile bodies and parts.....	Carpets, rag.....	1	Dairymen's and poultrymen's supplies.....	3	Glass, cutting, staining, and ornamenting.....	2
Belting, leather.....	Carriages and wagons, including repairs.....	2	Electrical machinery, apparatus, and supplies.....	3	Grease and tallow, soap stock.....	2
Bookbinding and blank-bookmaking.....	Cars and general shop construction and repairs by electric-railroad companies.....	2	Engines, steam, gas, and water.....	3	Hand stamps.....	1
Boots and shoes, not including rubber boots and shoes.....	Cars and general shop construction and repairs by steam-railroad companies.....	1	Flour-mill and gristmill products.....	1	Hardware.....	3
Boxes, set-up paper boxes and shipping containers.....	Cash registers and calculating machines.....	1	Food preparations, not elsewhere specified.....	2	Ice, manufactured.....	2
Boxes, wooden packing, except cigar boxes.....		1	Fur goods.....	1	Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills.....	1
Brass and bronze products.....		1	Galvanizing.....	1	Iron and steel, forgings, not made in steel works or rolling mills.....	1
Butter.....		2				

1	SPRINGFIELD—All industries.....	181	6,448	168	201	356	268	5,365	Oc	5,769	Mh	5,031	5,913	4,270	1,608	20	15	21,594,755
2	Automobile repairing.....	9	107	13	4	1	4	85	Se	107	Mh	62	102	101	1			80,536
3	Bread and other bakery products.....	18	176	27	9	12	15	113	Oc	120	Mh	108	121	88	32	1		266,950
4	Cars and general shop construction and repairs by steam-railroad companies.....	4	420		14	8	1	397	De	435	Je	369	435	435				375,202
5	Confectionery and ice cream.....	8	84	7	6	3	3	65	De	74	Ja	52	70	26	39		5	87,148
6	Copper, tin, and sheet-iron work.....	15	89	21	5	4	5	54	Oc ^s	60	Ja ^s	48	59	55	2			75,434
7	Foundry and machine-shop products.....	12	394	10	38	33	21	292	No	388	Fe	201	308	307		1		1,809,240
8	Lumber, planing-mill products, not including planing mills connected with sawmills.....	4	87	4	5	5	1	72	Se	91	Ja ^s	56	79	75		4		106,068
9	Marble and stone work, monuments and tombstones.....	3	20	4	4	1	2	9	Au ^s	10	Ja ^s	6	10	10				22,388
10	Mineral and carbonated waters.....	5	22	6	1			15	Je ^s	18	Fe ^s	12	14	14				54,653
11	Printing and publishing, book and job.....	12	100	6	12	10	11	127	No	143	Ja	123	139	102	36	1		422,592
12	Printing and publishing, newspapers and periodicals.....	12	426	5	21	80	48	272	My	295	Ja ^s	262	319	275	43	1		632,990
13	Saddlery and harness.....	4	18	4	1	2	1	10	Ja ^s	11	My ^s	10	10	10				37,310
14	Tobacco, cigars.....	15	88	15	6	2		65	No ^s	78	Je	58	78	62	11	5		41,149
15	All other industries*.....	60	4,351	40	165	195	156	3,789					4,169	2,710	1,444	5	10	17,483,125

*All other industries embrace—	Boxes, cigar.....	1	Carriages and wagons, repair work only.....	2	Electrical machinery, apparatus, and supplies.....	1
Agricultural implements.....	Boxes, wooden packing, except cigar boxes.....	1	Cars and general shop construction and repairs by electric-railroad companies.....	1	Engines, steam, gas, and water.....	2
Artificial stone products.....	Brick, building.....	2	Clothing, women's, shirt waists and dresses, except house dresses.....	1	Flour-mill and gristmill products.....	1
Automobile bodies and parts.....	Brooms, from broom corn.....	1			Food preparations, not elsewhere specified.....	2
Awnings, tents, and sails.....	Butter.....	1			Foundry supplies.....	1
Boots and shoes, not including rubber boots and shoes.....	Canning and preserving, vegetables.....	2			Gas, illuminating and heating.....	1

*Includes water wheels and turbines (irrespective of ownership of water supply), and water motors (operated by water from city mains).

*Chiefly electric motors operated by rented (or purchased) current; other power included (chiefly shaft-belt or transmitted power from neighboring power plants).

MANUFACTURES—ILLINOIS.

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COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

EXPENSES.								Value of products.	Value added by manufacture.	POWER.					
Salaries and wages.			For contract work.	Rent and taxes.		For materials.				Primary horsepower.					
Officials.	Clerks, etc.	Wage earners.		Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.			Total.	Owned.				Electric horsepower generated in establishments reporting.
											Steam engines (not turbines).	Steam turbines.	Internal-combustion engines.	Water power. ¹		Rent- ed.^{2}

CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.

Dollars. 2,684,223	Dollars. 2,150,066	Dollars. 18,370,147	Dollars. 222,464	Dollars. 211,163	Dollars. 2,692,117	Dollars. 35,168,408	Dollars. 1,408,501	Dollars. 74,918,953	Dollars. 38,352,044	33,963	12,878	1,375	114	1,190	18,406	8,202	1
4,000	1,200	9,140	.....	660	221	18,007	344	47,460	29,109	34	.....	.....	15	.....	19	.....	2
9,719	5,555	105,539	300	11,598	9,414	132,874	6,035	318,078	179,169	140	.....	.....	2	.....	138	.....	3
7,870	27,218	162,104	652	13,643	1,787	744,709	22,487	1,160,595	393,399	119	.....	.....	.....	.....	119	.....	4
43,026	25,198	130,890	.....	9,300	22,200	727,452	5,571	1,132,613	399,590	97	.....	.....	.....	.....	97	.....	5
35,724	15,390	99,031	70	14,760	21,469	426,688	14,543	732,788	291,557	320	.....	.....	.....	.....	320	.....	6
4,688	8,466	28,751	70	4,230	12,375	97,546	3,436	175,423	74,441	37	.....	.....	.....	.....	37	.....	7
31,036	0,024	70,280	.....	10,530	9,094	329,142	11,107	557,365	217,116	283	.....	.....	.....	.....	283	.....	8
1,040	.....	29,031	.....	2,640	843	54,382	399	103,850	49,069	10	.....	.....	.....	.....	10	.....	9
246,042	165,299	1,926,615	.....	17,670	104,040	1,649,554	82,243	5,149,754	3,417,957	2,406	700	.....	1	140	1,655	1,340	10
239,138	353,977	2,846,861	100	17,205	171,789	4,059,015	121,937	9,836,745	5,055,193	5,798	3,230	.....	.....	.....	2,508	450	11
174,797	73,091	1,792,917	192,387	25,696	458,166	5,421,402	95,691	9,728,406	4,211,412	2,184	930	.....	.....	.....	1,254	450	12
403,118	306,361	3,053,942	.....	1,092	494,128	2,903,503	120,863	8,485,059	5,457,693	3,982	1,365	.....	.....	.....	2,617	1,075	13
11,000	4,800	21,584	75	601	379	61,205	1,330	110,671	57,046	60	.....	.....	6	.....	54	.....	14
7,800	300	21,805	.....	1,062	44	16,120	2,188	67,579	49,271	39	.....	.....	.....	.....	39	.....	15
36,712	35,850	123,836	1,441	17,805	3,889	185,074	5,379	487,825	296,772	127	.....	.....	.....	.....	127	.....	16
61,020	86,904	90,758	2,126	3,720	15,158	201,722	7,921	583,507	373,864	98	.....	.....	.....	.....	98	.....	17
69,685	28,808	331,580	.....	3,800	40,332	191,768	12,824	832,414	627,822	565	75	.....	.....	160	330	100	18
.....	12,383	.....	.....	650	5,885	21,955	281	46,882	24,646	2	.....	.....	.....	.....	2	.....	19
57,747	13,229	93,353	22,236	1,655	8,987	60,810	7,219	334,021	259,992	274	.....	.....	.....	150	124	.....	20
1,174,871	1,013,889	7,816,772	3,077	67,900	1,237,380	17,674,878	896,346	35,748,707	17,178,483	17,708	6,578	1,375	90	740	8,925	4,787	21

Iron and steel, tempering and welding.....	2	Millinery and lace goods, not elsewhere specified.....	1	Pens, fountain and stylographic.....	1	Slaughtering and meat packing.....	2
Leather goods, not elsewhere specified.....	2	Mineral and carbonated waters.....	1	Perfumery and cosmetics.....	1	Stamped ware, not elsewhere specified.....	1
Leather, tanned, curried, and finished.....	1	Minerals and earths, ground or otherwise treated.....	1	Phonographs and graphophones.....	1	Stoves, gas and oil.....	2
Lubricating greases.....	1	Mirrors, framed and unframed, not elsewhere specified.....	1	Photo-engraving.....	1	Textile machinery and parts.....	1
Lumber and timber products.....	1	Musical instruments, pianos.....	2	Pickles and sauces.....	1	Toyware, not elsewhere specified.....	1
Lumber, planing-mill products, not including planing mills connected with sawmills.....	3	Musical instruments, piano materials.....	1	Plated ware, hollow ware.....	1	Toys and games.....	1
Mattresses and spring beds, not elsewhere specified.....	2	Oil, composite.....	1	Saddlery and harness.....	1	Trunks and valises.....	1
		Paper and wood pulp.....	1	Sewing-machine cases.....	1	Varnishes.....	1
		Patent and proprietary medicines.....	2	Shipbuilding, wooden, including boat building.....	1	Wall plaster and composition flooring.....	1
		Paving materials.....	1	Show cases.....	1	Watchcases.....	1
				Signs, other than electric.....	1	Watch materials, except watchcases.....	1
						Wirework, not elsewhere specified.....	2
						Woolen goods.....	1

774,391	601,790	5,077,077	64,595	97,843	681,369	11,901,842	482,110	22,723,365	10,330,413	7,849	3,265	76	13	.....	4,495	525	1
6,085	3,280	95,183	.....	8,360	685	96,489	2,980	272,799	173,830	63	.....	.....	3	.....	60	.....	2
10,883	23,079	101,130	.....	9,528	1,903	496,765	16,829	883,376	369,782	129	.....	.....	.....	.....	129	.....	3
30,868	10,348	633,825	.....	.....	1,644	252,896	34,314	971,251	684,041	476	220	.....	.....	.....	255	.....	4
4,970	6,020	41,150	.....	8,495	1,263	202,260	3,905	323,608	117,443	44	.....	.....	.....	.....	44	13	5
3,816	8,044	56,307	.....	4,729	625	75,574	1,145	211,004	134,285	7	.....	.....	2	.....	5	.....	6
88,180	53,441	317,379	1,078	1,380	57,288	1,020,411	27,622	2,030,208	982,175	896	.....	.....	.....	.....	895	.....	7
12,616	0,282	84,307	150	874	6,169	168,799	3,650	304,352	131,903	189	175	.....	.....	.....	14	.....	8
5,770	2,376	0,876	.....	1,416	89	36,730	500	58,672	21,342	62	.....	.....	.....	.....	62	.....	9
3,000	.....	12,975	300	840	816	49,036	561	88,221	38,624	25	.....	.....	.....	.....	25	.....	10
28,631	18,822	154,614	6,701	13,320	3,917	194,110	4,614	484,862	286,138	117	.....	.....	.....	.....	117	.....	11
75,782	88,021	270,395	38,604	10,073	6,039	239,531	5,811	955,964	710,622	218	.....	.....	.....	.....	218	.....	12
.....	702	6,844	.....	1,800	154	21,500	563	50,765	28,702	3	.....	.....	.....	.....	3	.....	13
6,388	2,080	47,048	.....	3,948	10,065	72,071	316	200,531	128,144	3	.....	.....	.....	.....	3	.....	14
488,222	377,489	3,248,954	17,102	33,080	581,712	8,975,670	379,300	15,887,852	6,532,882	5,619	2,870	76	8	.....	2,665	512	15

Gloves and mittens, cloth, not including gloves made in textile mills.....	1	Jewelry.....	1	Optical goods.....	2	Toys and games.....	1
Hair work.....	1	Liquors, malt.....	1	Patent and proprietary medicines.....	1	Wall plaster and composition flooring.....	1
Hand stamps.....	1	Mattresses and spring beds, not elsewhere specified.....	1	Photo-engraving.....	1	Watch materials, except watchcases.....	2
House-furnishing goods, feather pillows and beds.....	1	Models and patterns, not including paper patterns.....	1	Rubber tires, tubes, and rubber goods, not elsewhere specified.....	1	Watches.....	1
Ice, manufactured.....	2			Sausage, not made in slaughtering and meat-packing establishments.....	2	Window and door screens.....	2
						Wool shoddy.....	1

* Same number reported for one or more other months.

MANUFACTURES—ILLINOIS.

TABLE 43.—DETAILED STATEMENT OF ALL INDUSTRIES

INDUSTRY AND CITY.		Number of establishments	PERSONS ENGAGED IN THE INDUSTRY.										WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.						Capital.
			Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc.		Wage earners.				Total.	16 and over.		Under 16.				
						Male.	Female.	Average number.	Number, 15th day of—		Male.		Female.	Male.	Female.				
									Maximum month.	Minimum month.									
1	ALTON.....	60	3,688	45	208	90	100	3,236	Se	3,333	Je	3,163	3,338	2,820	517	1	12,813,525		
2	AURORA.....	133	8,016	112	394	490	436	6,608	No	6,969	Ap	6,358	6,858	5,448	1,115	217	35,307,941		
3	BELLEVOILLE.....	141	3,723	127	201	154	81	3,180	Se	3,338	Ja	2,558	3,880	2,547	715	109	8,755,624		
4	BERWYN.....	15	42	14	2	1	1	25	Je	29	Fe	21	25	21	4	1	77,220		
5	BLOOMINGTON.....	83	3,306	64	145	186	93	2,818	No	2,912	Ja	2,728	2,955	2,633	280	23	7,830,947		
6	BLUE ISLAND.....	34	1,417	32	41	113	51	1,180	Oc	1,610	Ja ^a	824	1,516	1,287	228	1	9,479,428		
7	CAIRO.....	55	2,081	27	108	97	57	1,792	De	2,043	Ap	1,520	1,996	1,700	294	1	8,961,242		
8	CANTON.....	33	1,544	36	34	119	59	1,296	De	1,872	Je	575	1,811	1,570	221	20	15,061,982		
9	CENTRALIA.....	30	1,117	26	21	41	26	1,003	De	1,071	Ap	938	1,068	845	219	2	1,841,038		
10	CHAMPAIGN.....	80	1,331	75	57	65	71	1,063	No	1,226	Fe	907	1,209	1,070	136	1	3,122,854		
11	CHICAGO HEIGHTS.....	103	6,621	69	311	592	321	5,328	No	5,755	Ap	4,882	5,977	5,537	394	42	36,349,289		
12	CICERO.....	92	20,681	63	584	3,571	1,709	14,754	De	16,486	Mh	14,006	16,750	13,342	3,366	35	49,841,122		
13	DANVILLE.....	112	4,018	114	160	192	209	3,343	Ja	3,485	Je	3,139	3,809	3,537	269	3	14,278,504		
14	DECATUR.....	103	6,860	63	351	487	266	5,693	De	6,466	Ap	5,159	6,573	5,741	719	91	31,209,768		
15	ELGIN.....	80	7,607	51	211	232	277	6,846	De	7,241	My	6,391	7,307	4,323	2,825	68	24,781,665		
16	EVANSTON.....	101	1,876	109	60	194	108	1,405	De	1,540	Oc	1,180	1,660	1,422	227	7	13,969,316		
17	FOREST PARK.....	28	252	21	24	3	12	192	Se	222	Ja	114	218	205	12	1	847,781		
18	FREESPORT.....	76	3,772	58	126	231	180	3,177	De	3,694	Ja	2,681	3,772	3,266	445	31	16,335,710		
19	GALESBURG.....	77	2,620	68	145	100	85	2,222	Oc	2,531	Mh	1,986	2,592	2,240	244	108	6,518,226		
20	GRANITE CITY.....	37	6,220	28	268	340	91	5,493	Fe	7,123	Jy	3,913	6,374	5,821	519	32	41,585,586		
21	HERRIN.....	12	77	17	2	3	3	52	Jy	63	Ja ^a	43	44	35	9	1	214,771		
22	JACKSONVILLE.....	59	1,807	54	57	77	28	1,091	De	1,151	Mh	1,041	1,137	850	276	4	2,850,739		
23	JOLIET.....	166	13,215	124	445	990	397	11,259	Ja	12,120	Oc	9,034	11,579	10,372	1,187	16	60,590,814		
24	KANKAKEE.....	54	2,151	50	61	51	30	1,959	Oc	2,073	Ap	1,873	1,949	1,180	619	94	6,485,841		
25	KEWANEE.....	37	4,546	35	123	208	181	3,900	De	5,039	Ja	2,871	4,907	4,378	494	28	12,110,122		
26	LA SALLE.....	38	2,016	34	70	74	45	1,792	Oc	1,978	De	1,640	1,864	1,849	12	2	16,012,769		
27	LINCOLN.....	33	279	30	25	10	20	194	Oc	308	Fe	153	270	175	87	2	1,001,457		
28	MATTOON.....	65	1,342	70	61	44	33	1,134	No	1,207	Ap	1,081	1,206	1,128	76	2	2,979,074		
29	MAYWOOD.....	27	2,563	28	45	162	111	2,217	Au	2,457	Ap	1,954	2,246	1,820	426	1	16,289,412		
30	MOLINE.....	61	6,484	37	222	519	262	5,444	Ja	5,838	Je	4,946	5,791	5,474	290	22	42,343,340		
31	MURPHYSBORO.....	28	1,364	18	70	99	38	1,139	Se	1,232	Ja	1,046	1,206	998	208	1	4,424,639		
32	OAK PARK.....	44	605	38	29	110	45	383	Se	408	Ja	344	392	361	29	2	8,631,438		
33	OTTAWA.....	62	928	51	48	64	36	729	De	872	Fe	558	875	748	127	1	5,257,518		
34	PEKIN.....	37	1,069	32	35	50	18	934	Oc	1,219	Jy	451	1,043	1,020	21	2	6,761,429		
35	QUINCY.....	183	5,550	119	266	460	262	4,443	De	5,171	Ap	3,672	5,266	4,327	857	45	21,553,108		
36	ROCK ISLAND.....	83	3,929	54	190	313	164	3,208	Ja	3,689	Jy	2,690	3,245	2,936	297	7	24,363,724		
37	STREATOR.....	69	1,516	60	56	49	50	1,301	Au	1,494	Ja	1,090	1,269	1,033	220	14	6,338,531		
38	URBANA.....	43	626	37	38	24	18	509	Do	555	My	446	504	455	55	54	1,414,929		
39	WAUKEGAN.....	52	3,071	31	149	237	116	2,538	Se	2,937	Oc	2,028	3,247	2,790	422	11	22,734,451		

¹ Includes water wheels and turbines (irrespective of ownership of water supply), and water motors (operated by water from city mains).

² Chiefly electric motors operated by rented (or purchased) current; other power included (chiefly shaft-belt or transmitted power from neighboring power plants).

MANUFACTURES—ILLINOIS.

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COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

EXPENSES.								Value of products.	Value added by manufacture.	POWER.					
Salaries and wages.			For contract work.	Rent and taxes.		For materials.				Primary horsepower.					Electric horsepower generated in establishments reporting.
Officials.	Clerk, etc.	Wage earners.		Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.			Total.	Owned.				
										Steam engines (not turbines).	Steam turbines.	Internal-combustion engines.	Water power. ¹	Rent- ed. ²	

CITIES OF 10,000 TO 50,000 INHABITANTS—ALL INDUSTRIES COMBINED.

Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.							
656,868	216,018	3,110,570	506	48,764	1,359,831	18,678,145	1,096,849	31,036,983	11,261,989	10,032	5,100	86	1,050	.....	3,796	92
1,410,699	1,265,080	7,087,490	49,359	51,987	855,655	12,150,904	532,550	30,038,961	17,355,417	11,423	5,081	160	18	375	5,805	2,828
582,515	365,872	2,866,500	3,745	10,560	435,511	7,464,732	214,937	14,017,292	6,337,503	0,212	2,042	.....	37	1	3,232	674
8,490	910	20,654	.....	1,040	2,110	74,754	8,643	155,187	76,860	60	.....	.....	47	.....	13	4
462,801	371,056	3,395,962	314,081	31,373	263,513	5,330,278	236,597	11,519,580	5,952,705	0,196	3,066	50	14	.....	3,066	3,456
161,581	222,084	1,578,127	6,300	7,781	255,730	2,320,843	527,938	7,498,870	4,650,089	5,989	3,729	106	90	.....	2,064	403
298,422	188,473	1,744,982	5,086	14,359	163,076	7,195,775	115,614	10,526,159	3,215,770	0,731	5,140	.....	22	.....	1,560	1,283
100,725	53,835	1,127,285	5,298	9,224	354,843	2,345,424	165,976	4,558,447	2,047,047	1,154	352	3,600	.....	.....	302	2,616
48,715	113,079	1,132,638	4,680	8,063	25,912	1,231,777	06,053	3,010,556	1,682,726	1,232	981	.....	2	.....	249	1,201
138,210	150,730	1,248,856	9,433	43,063	58,331	2,595,055	137,887	5,187,010	2,454,068	2,082	322	.....	180	.....	1,580	305
1,561,277	1,222,529	7,028,428	101,744	62,078	1,657,703	21,785,502	1,315,989	41,788,147	18,686,656	27,176	13,096	810	105	.....	12,565	6,988
1,870,884	7,044,849	18,985,309	22,403	48,177	1,871,561	21,066,581	1,309,604	57,918,418	34,042,233	25,478	1,800	19,853	125	.....	3,700	21,582
286,772	446,031	3,861,510	12,190	43,312	111,750	8,008,373	701,580	15,005,953	0,296,000	8,452	5,841	100	64	.....	2,947	2,265
1,116,050	940,475	6,983,941	4,174	61,504	1,107,575	23,833,054	854,132	38,683,689	13,995,903	16,969	5,124	4,832	338	.....	6,675	13,569
789,599	575,290	7,725,633	40,588	47,477	1,048,166	10,008,821	209,150	25,648,891	14,830,920	6,891	4,621	.....	66	424	1,780	2,508
246,474	373,489	2,104,060	61,617	47,350	96,579	5,008,607	687,058	9,791,025	4,095,360	2,450	964	.....	43	.....	1,443	139
51,459	17,038	252,097	18,327	12,321	13,645	445,125	18,421	1,016,236	552,090	662	240	.....	67	.....	355	.....
457,130	455,154	3,387,403	8,495	38,060	448,584	10,535,886	326,462	18,405,204	7,542,856	7,313	2,119	1,485	498	.....	3,211	1,499
404,318	288,382	2,474,564	55,690	48,471	126,847	5,587,820	403,921	10,352,242	4,360,501	5,467	2,877	100	39	.....	2,441	505
954,944	720,281	8,193,240	93,256	16,705	1,149,929	24,152,909	1,606,662	43,039,044	17,279,473	26,322	16,078	6,850	.....	.....	2,394	15,835
8,800	6,403	60,217	.....	3,163	5,647	187,372	0,278	235,225	138,576	149	51	.....	2	.....	96	.....
146,731	186,717	936,250	5,884	10,449	64,394	5,047,006	130,050	7,126,506	1,949,450	1,820	819	.....	23	.....	988	55
1,563,703	2,373,943	15,714,479	45,079	50,917	4,224,076	38,381,768	10,619,920	82,069,536	33,667,858	83,226	45,939	7,975	12,005	.....	17,307	31,764
176,934	111,745	1,838,472	743	12,399	220,453	3,629,684	213,981	7,287,117	3,442,452	4,575	3,380	.....	.....	.....	1,195	843
542,969	631,007	5,222,838	1,373	9,588	766,810	6,861,145	478,042	16,278,508	8,939,321	9,167	3,028	4,255	.....	.....	1,884	3,532
865,257	178,066	2,283,157	220	22,888	228,057	3,813,121	1,458,307	9,533,709	4,262,278	20,383	11,049	2,000	50	.....	7,289	2,550
32,217	32,075	142,994	.....	8,343	23,679	350,702	33,069	784,734	400,972	559	420	.....	.....	.....	139	.....
166,718	78,337	1,468,375	2,930	18,262	33,264	1,755,478	100,801	4,031,058	2,194,794	1,707	818	.....	61	.....	828	931
171,578	349,213	2,774,639	6,207	6,341	666,762	9,299,065	128,615	14,432,705	5,005,025	2,208	1,687	.....	.....	.....	521	2,011
840,313	1,101,956	7,438,303	11,333	65,424	1,498,562	21,922,503	765,301	44,871,021	22,183,217	16,091	5,335	810	24	.....	9,922	6,085
189,712	100,636	1,183,338	943	3,367	121,594	3,401,186	479,506	6,208,317	2,327,625	4,460	4,075	50	55	.....	280	442
83,222	181,047	481,493	47,101	12,740	64,094	462,261	482,740	2,280,640	1,305,630	737	90	.....	10	.....	637	.....
117,786	120,459	797,643	1,260	16,276	107,182	1,323,882	244,846	3,223,647	1,648,919	2,903	750	120	35	.....	1,998	33
202,682	90,511	1,160,023	.....	5,960	196,964	16,100,935	461,749	25,063,968	9,101,284	6,042	2,115	2,100	50	2	1,775	5,047
811,241	917,515	4,208,365	53,279	82,573	377,949	11,966,004	471,638	23,498,813	11,061,171	11,739	0,137	40	31	.....	5,531	617
480,301	548,662	3,942,360	9,565	29,400	448,258	13,917,580	330,067	22,350,114	8,102,467	8,625	1,210	1,000	15	.....	6,400	2,327
166,266	114,172	1,124,019	2,512	18,228	219,357	2,076,880	876,507	6,662,302	3,708,915	4,973	2,185	500	6	.....	2,282	.....
72,417	31,309	615,552	12,813	12,046	34,174	382,739	57,491	1,450,522	1,010,292	2,427	673	.....	.....	.....	1,754	363
512,745	554,398	3,864,917	13,474	34,341	531,982	14,043,193	973,110	24,098,062	9,076,759	23,172	17,622	4,679	150	.....	721	6,786

* Same number reported for one or more other months.

MINES AND QUARRIES—ILLINOIS.

EXPLANATION OF TERMS.

Scope of census and period covered.—The census of mines, quarries, and petroleum or natural-gas wells does not cover enterprises which were idle; that is, in which neither productive nor development work was done during the entire year, or the products of which were valued at less than \$500; or in the case of bituminous coal mining, producing less than 1,000 tons, or, if not productive, in which development work amounting to less than \$5,000 was done. The returns relate to the calendar year 1919. When use is made of the statistics relating to character of ownership, size of enterprises, and similar subjects, it is imperative that due attention be given their limitations, particularly in connection with any attempt to show average wages, cost of production, or profits.

The enterprise.—The term "enterprise" represents one or more mines and quarries, wells or groups of wells, or natural-gas gasoline plants, all within the same state, operated under a common ownership or unified control, or for which only one set of books of account was kept, and for which a single report was secured. It may cover plants at several localities within the same state. If plants under unified control were not all located within the same state, separate reports were secured in order that statistics for the several enterprises thus defined might be included in statistics for the states in which they were located. The enterprise is further defined as being limited to a single industry.

Number of mines, quarries, wells, and plants.—Under these designations is given the number of mines, quarries, wells, and gasoline plants shown by the returns. As a rule each group of workings at a given locality in which operations were conducted as a unit or were unified by common management or joint handling of some part of the mining process, has been considered as a single mine or quarry. Many individual openings, therefore, are not counted as individual mines. The total number reported comprises those in operation or in the course of development during the year 1919. For petroleum and natural-gas wells the individual wells were counted and the total number productive December 31, 1919, is reported. The number of natural-gas gasoline plants is the total number reported in operation during the year.

Classification by industries.—The enterprises reported have been grouped by industries according to the kind of products.

Selected industries.—The detailed table gives the principal facts separately for the leading industries of the state.

Influence of increased prices.—In comparing figures for cost of supplies and materials and value of products with the corresponding figures for earlier censuses, account should be taken of the general increase in the prices of commodities during recent years.

Persons engaged in the industry.—The number of persons engaged in each industry, by occupation, sex, and, in the case of wage earners, also by age, was reported for a single representative day. In addition to the number of wage earners on the representative date, a report was obtained of the number employed on the 15th of each month, without distinction of sex or age. From these figures the average number of wage earners for the year has been calculated by dividing the sum of the numbers reported for the several months by 12.

Salaries and wages.—Under these heads are given the total payments during the year for salaries and wages, respectively.

Prevailing hours of labor.—This inquiry called merely for the prevailing practice followed in each enterprise. Occasional variations in hours from one part of the year to another were disregarded, and also where a few wage earners might have hours differing from the majority. All the wage earners of each enterprise are therefore counted in the class within which the enterprise falls.

Capital.—The instructions on the schedule relating to capital were as follows: "The answer should show the total amount of capital, owned and borrowed, invested by the operator in the enterprise on the last day of the business year reported. Do not include securities and loans representing investments in other enterprises." The reports received in respect to capital, however, have in so many cases been defective that the data compiled only indicate very general conditions.

Expenses.—The expenses reported in the census of 1919 include salaries and wages; the cost of supplies, materials, and fuels, including the freight on these; cost of power purchased; the cost of contract work; royalties and rents paid; and taxes paid or assessed. The census of 1909 reported in addition to the items of expenses covered by the present census all other items of expense incident to that year's business, except interest on indebtedness, dividends, and allowances for depreciation.

Supplies and materials, fuel, and power.—Statistics as to supplies and materials, fuel, and power, relate to the cost of these used during the year which may be more or less than the amount purchased during the year. The term "supplies and materials" covers mine, mill, quarry, and well supplies, and mineral purchased for treatment, resale, or distribution.

Royalties and rents.—The amounts given under this head represent the payment to fee holders or the value of share of product credited to fee holders for mineral output from leased land, and also rents paid for plants, equipment, and privileges or easements.

Taxes.—The taxes include Federal capital stock; corporation income, and excess profits tax; and also state, county, and local taxes. The data compiled in respect to Federal taxes are very defective as many mining corporations are engaged in other business and have sources of income other than from mining and do not pay taxes on mining separately.

Expenditures for development work.—In the statistics for producing enterprises that part of the expenses for salaries, wages, contract work, supplies and materials, fuel, and power credited to development work is shown as expenditures for development work. For nonproducing enterprises the total of these expenses is given as expenditure for development work.

Quantity of products.—In so far as the statistics on quantities of mineral products in 1919 are available for the states, they will be found in the reports of the United States Geological Survey.

Value of products.—The amounts given under this heading represent the selling value at point of production or f. o. b. at point of shipment, or such other value as may represent the net value or amount received for the 1919 product under the terms by which it was disposed of, and also includes the value at point of production of products used by the operating company.

Cost of mining and profits.—The data do not show entire cost of mining and well operations, and can not be used for the calculation of profits. No account was taken of depreciation or interest; rent of offices and buildings other than those for mines, quarries, and wells; insurance, selling, and other sundry expenses.

Lands controlled.—The inquiry on land tenure was confined to land pertaining to the operations covered by the report. In many of these, however, land held in reserve for future development and for other purposes not pertaining to mining was included and also a large number of more or less unsatisfactory estimates.

Power used.—The figures on power represent the rated capacity of the engines, motors, etc., and not the amount in actual daily use.

Fuel.—Statistics of fuel are shown only for anthracite and bituminous coal, coke, wood, oil, and gas. As only the principal varieties of fuel are shown, no comparison can be made with the total cost.

STATISTICS FOR THE STATE.

Illinois, which ranks twenty-third in size (land area 56,043 square miles) and third in population (6,485,280 in 1920), ranked fourth among the states in value of mineral products for the year 1919. It ranked third in the total number of persons engaged in the mining industries and in the average number of wage earners employed.

The gross value of mineral products for the state in 1919 was \$178,673,065, an increase of 133.1 per cent over the value reported at the census of 1909. Deducting from this gross value \$91,659, the value of natural gas sold by some producers for use as material or for resale by others, leaves \$178,581,406, the net value of the products.

Increases in wages, cost of supplies, fuel and power, and the value of products as shown in the comparative summary for 1909 and 1919, Table 1, are largely due to general price increases and are not a measure of the growth of mining during the census period 1909-1919. Nor, on the other hand, is any decline in mining indicated by the decrease in the number of enterprises, which may be a reflection of adverse industrial conditions during 1919 or the result of consolidation of operations. Probably the most significant fact shown by this table is the small increase in the number of wage earners. The addition of Federal income and excess-profits taxes since 1909 will account for the increase in taxes.

The industries reported for 1919, ranked according to value of products, were coal mining, petroleum and natural-gas production, limestone quarrying, fluorspar mining, sandstone quarrying, lead and zinc mining, clay mining, mining of abrasive materials (tripoli), and pyrite mining. Besides producing the materials indicated by the industry designations, two clay-mining enterprises produced coal as a by-product, one coal mine produced clay and two produced pyrite, and three fluorspar enterprises produced lead-ore concentrates. The aggregate value of these mineral by-products was \$108,124, and this amount, together with \$113,876 received for other unspecified products and for power sold and work or miscellaneous services for other enterprises, is included in the total value of products for the industries.

The relative importance of the mining industries may be variously determined by use of different bases of rank; in Table 2 they are ranked by value of products.

The principal mining industry, coal, reported products valued at \$138,767,835, which was 77.7 per cent of the total value of products of all mining industries. Illinois ranked third among the states in the value of products of coal mines for 1919. The coal-producing area of the state is part of the Eastern Interior Coal Field, which extends into Indiana and Ken-

tucky, and covers approximately 35,000 square miles in 48 counties in Illinois and furnishes bituminous coal chiefly for steam and domestic use. Petroleum and natural-gas production ranked second in importance, with an output valued at \$31,171,904 (net), placing Illinois ninth among the states in this industry. The productive oil and gas operations in Illinois extend over an area of approximately 4,500 square miles, in 16 counties, which is part of an oil field including also the southwestern counties of Indiana. The quarrying industries are well distributed throughout the state and furnish not only stone for construction work, but also limestone for various other purposes, and sandstone from which a large part of the United States silica supply is derived. Illinois is the leading state in the Union in production of fluorspar, which is obtained in Hardin County.

The preponderance of the corporation among the mining organizations is brought out by Table 3. Corporations controlled 59.2 per cent of all the mining enterprises in the state in 1919, and represented 96.9 per cent of the average number of wage earners, and 96.2 per cent of the total value of products.

The relatively large number of small enterprises as determined by the number of wage earners employed is shown in Table 4. Of the total number of enterprises in this state, 72.8 per cent were in classes having no wage earners or fewer than 101, while such enterprises employed only 10.9 per cent of the total number of wage earners. On the other hand, enterprises employing more than 100 wage earners constituted only 27.3 per cent of the total number of enterprises but employed 89 per cent of the total number of wage earners. The coal-mining industry included 95.7 per cent of these larger enterprises.

Table 5 shows that in a majority of enterprises, and for about 80 per cent of the wage earners in all the mining industries in the state in 1919, the hours of labor were from 44 to 53 hours per week, or that the 8-hour day prevailed. In the coal-mining industry these hours were reported for approximately 85 per cent of the enterprises and wage earners, but in the petroleum and natural-gas and other industries presented separately the normal hours of labor were longer.

The statistics for wage earners given in Table 6, showing changes in the number employed month by month, reflect conditions prevailing in the industries during the census year. The extremely low minimum in the coal industry, which affects the figures for all industries combined, was very abnormal and was the result of the great November strike.

Table 7 presents statistics in detail for the state as a whole and for each industry that can be shown without the disclosure of individual operations.

MINES AND QUARRIES—ILLINOIS.

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TABLE 1.—COMPARATIVE SUMMARY, PRODUCING ENTERPRISES: 1919 AND 1909.

	MINING INDUSTRIES.		Per cent of increase. ¹		MINING INDUSTRIES.		Per cent of increase. ¹
	1919	1909			1919	1909	
Number of enterprises.....	772	915	-15.6	Capital.....	\$231, 836, 571	\$116, 959, 707	98.2
Number of mines and quarries.....	590	759	-22.3	Principal expenses:			
Number of petroleum and natural-gas wells.....	10, 498	10, 018	51.1	Salaries.....	10, 123, 866	3, 112, 655	225.2
Number of natural-gas gasoline plants.....	72	(²)	.....	Wages.....	94, 178, 504	46, 378, 727	103.1
Persons engaged.....	84, 809	76, 039	10.9	Contract work.....	431, 555	2, 376, 056	-81.8
Proprietors and firm members, total.....	691	1, 425	-51.5	Supplies and materials.....	18, 807, 752	8, 674, 817	119.3
Number performing manual labor in or about the mines, quarries, and wells.....	126	401	-68.6	Fuel and power.....	5, 784, 479	1, 325, 880	336.3
Salaried employees.....	4, 495	2, 528	77.8	Royalties and rents.....	6, 636, 176	3, 572, 472	85.4
Wage earners (average number).....	79, 123	72, 086	9.8	Taxes.....	6, 890, 455	287, 460	.....
Power used (horsepower).....	318, 231	225, 330	41.2	Value of products.....	178, 673, 065	76, 658, 974	133.1

¹ A minus sign (—) denotes decrease.
² Figures not available.

³ Includes for 1919 cost of natural gas, and for 1909 cost of ore and natural gas, purchased as material.

TABLE 2.—PRINCIPAL INDUSTRIES, PRODUCING ENTERPRISES, RANKED BY VALUE OF PRODUCTS: 1919.

INDUSTRY.	Number of enterprises.	WAGE EARNERS.		VALUE OF PRODUCTS.		INDUSTRY.	Number of enterprises.	WAGE EARNERS.		VALUE OF PRODUCTS.	
		Average number.	Per cent distribution.	Amount.	Per cent distribution.			Average number.	Per cent distribution.	Amount.	Per cent distribution.
All industries.....	772	79, 123	100.0	\$178, 673, 065	100.0	Sandstone.....	15	288	0.4	1, 329, 389	0.7
Coal, bituminous.....	447	73, 780	93.2	138, 767, 835	77.7	Lead and zinc.....	6	230	0.3	621, 296	0.3
Petroleum and natural gas.....	236	2, 752	3.5	31, 263, 563	17.5	Clay.....	10	154	0.2	472, 284	0.3
Limestone.....	41	1, 244	1.6	3, 776, 626	2.1	Abrasive materials.....	5	21	(¹)	45, 205	(¹)
						All other industries.....	12	645	0.8	2, 396, 867	1.3

¹ Less than one-tenth of 1 per cent.

² Includes enterprises in industries as follows: Fluorspar, 11; pyrite, 1.

TABLE 3.—CHARACTER OF ORGANIZATION, FOR SELECTED INDUSTRIES, PRODUCING ENTERPRISES: 1919.

INDUSTRY AND CHARACTER OF ORGANIZATION.	Number of enterprises.	Number of wage earners.	VALUE OF PRODUCTS.		PER CENT DISTRIBUTION.		
			Total.	Per enterprise.	Enterprises.	Wage earners.	Value of products.
ALL INDUSTRIES.....	772	79, 123	\$178, 673, 065	\$231, 442	100.0	100.0	100.0
Corporation.....	457	76, 691	171, 829, 643	375, 995	59.2	96.9	96.2
Individual.....	120	1, 165	2, 457, 327	20, 478	15.5	1.5	1.4
Firm.....	166	963	3, 541, 544	21, 335	21.5	1.2	2.0
Other.....	29	304	844, 551	29, 122	3.8	0.4	0.5
COAL, BITUMINOUS.....	447	73, 780	138, 767, 835	310, 443	100.0	100.0	100.0
Corporation.....	320	71, 763	135, 182, 771	422, 440	71.6	97.3	97.4
Individual.....	65	996	1, 734, 925	26, 091	14.5	1.3	1.2
Firm.....	54	762	1, 535, 811	28, 441	12.1	1.0	1.1
Other.....	8	259	314, 328	39, 291	1.8	0.4	0.2
PETROLEUM AND NATURAL GAS.....	236	2, 752	31, 263, 563	132, 473	100.0	100.0	100.0
Corporation.....	74	2, 493	28, 348, 300	383, 085	31.4	90.6	90.7
Individual.....	37	42	428, 988	11, 540	15.7	1.5	1.4
Firm.....	104	172	1, 958, 052	18, 827	44.1	6.2	6.3
Other.....	21	45	530, 223	25, 249	8.9	1.6	1.7
LIMESTONE AND SANDSTONE.....	56	1, 532	5, 108, 015	91, 179	100.0	100.0	100.0
Corporation.....	42	1, 465	4, 092, 086	118, 859	75.0	95.6	97.8
Individual.....	9	57	97, 247	10, 805	16.1	3.7	1.9
Firm.....	5	10	16, 682	3, 336	8.9	0.7	0.3
CLAY.....	10	154	472, 284	47, 228	100.0	100.0	100.0
Corporation.....	5	110	327, 579	65, 516	50.0	71.4	69.4
Individual.....	5	44	144, 705	28, 941	50.0	28.6	30.6

¹ Includes 2 firms.

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TABLE 4.—SIZE OF PRODUCING ENTERPRISES, BY AVERAGE NUMBER OF WAGE EARNERS, FOR SELECTED INDUSTRIES: 1919.

INDUSTRY AND WAGE EARNERS PER ENTERPRISE.	ENTERPRISES.		WAGE EARNERS.		INDUSTRY AND WAGE EARNERS PER ENTERPRISE.	ENTERPRISES.		WAGE EARNERS.	
	Number.	Per cent distribution.	Number.	Per cent distribution.		Number.	Per cent distribution.	Number.	Per cent distribution.
ALL INDUSTRIES.....	772	100.0	79,123	100.0	LIMESTONE.....	41	100.0	1,244	100.0
No wage earners.....	43	5.6	569	0.7	No wage earners.....	3	7.3	30	2.4
1 to 5.....	263	34.1	1,378	1.7	1 to 5.....	10	24.4	120	9.6
6 to 20.....	122	15.8	2,321	3.3	6 to 20.....	10	24.4	400	32.2
21 to 50.....	77	10.0	4,099	5.2	21 to 50.....	11	26.8	298	24.0
51 to 100.....	56	7.3	45,287	57.2	51 to 100.....	4	9.8	390	31.8
101 to 500.....	186	24.1	11,867	15.0	101 to 500.....	3	7.3	288	100.0
501 to 1,000.....	18	2.3	13,303	16.8	SANDSTONE.....	15	100.0	23	8.0
Over 1,000.....	7	0.9			1 to 5.....	8	53.3	35	12.2
COAL, BITUMINOUS.....	447	100.0	73,780	100.0	6 to 20.....	3	20.0	86	29.9
No wage earners.....	3	0.7	229	0.3	21 to 50.....	2	13.3	144	50.0
1 to 5.....	77	17.2	839	1.1	51 to 100.....	2	13.3	239	100.0
6 to 20.....	73	16.3	1,670	2.1	LEAD AND ZINC.....	6	100.0	17	7.1
21 to 50.....	46	10.3	3,402	4.6	6 to 20.....	2	33.3	81	33.9
51 to 100.....	46	10.3	44,018	59.7	21 to 50.....	2	33.3	141	59.0
101 to 500.....	178	39.8	11,867	16.1	51 to 100.....	2	33.3		
501 to 1,000.....	18	4.0	11,855	16.1					
Over 1,000.....	6	1.3							
PETROLEUM AND NATURAL GAS.....	236	100.0	2,752	100.0					
No wage earners.....	35	14.8	267	9.7					
1 to 5.....	162	68.6	233	8.5					
6 to 20.....	22	9.3	324	11.8					
21 to 50.....	11	4.7	114	4.1					
51 to 100.....	2	0.8	306	13.3					
101 to 500.....	3	1.3	1,448	52.6					
Over 1,000.....	1	0.4							

TABLE 5.—NUMBER OF PRODUCING ENTERPRISES AND AVERAGE NUMBER OF WAGE EARNERS, BY PREVAILING HOURS OF LABOR PER WEEK, FOR SELECTED INDUSTRIES: 1919.

INDUSTRY.	TOTAL.		NUMBER WHERE THE PREVAILING HOURS OF LABOR PER WEEK WERE—											
	Enter-prises.	Wage earners.	35 and under.		36 to 43.		44 to 53.		54 to 62.		63 to 71.		72 to 84.	
			Enter-prises.	Wage earners.	Enter-prises.	Wage earners.	Enter-prises.	Wage earners.	Enter-prises.	Wage earners.	Enter-prises.	Wage earners.	Enter-prises.	Wage earners.
All industries.....	1,729	79,123	33	5,022	26	2,872	445	66,032	126	3,799	30	187	69	311
Coal, bituminous.....	444	73,780	27	5,910	19	2,846	391	64,905	7	119				
Petroleum and natural gas.....	201	2,752	5	7	6	6	26	242	65	1,999	30	187	69	311
Limestone.....	38	1,244					7	75	31	1,109				
Sandstone.....	15	288					5	41	10	247				
Lead and zinc.....	6	239					2	89	4	150				
All other industries.....	25	820	1	6	1	20	14	680	9	115				

¹ Exclusive of 43 enterprises employing no wage earners in industries as follows: Abrasive materials, 2; coal, bituminous, 3; limestone, 3; petroleum and natural gas, 35.

TABLE 6.—WAGE EARNERS, BY MONTHS, FOR SELECTED INDUSTRIES: 1919.

[The month of maximum employment for each industry is indicated by bold-faced figures and that of minimum employment by *italic* figures.]

INDUSTRY.	Average number employed during year.	NUMBER EMPLOYED ON 15TH DAY OF THE MONTH OR NEAREST REPRESENTATIVE DAY.												Per cent minimum is of maximum.
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
All industries.....	79,123	89,224	86,988	85,233	82,026	80,235	79,033	81,643	83,906	87,056	89,321	16,732	88,029	18.8
Coal, bituminous.....	73,780	84,197	82,192	80,214	76,796	74,761	73,604	76,052	78,218	81,362	83,739	11,525	82,002	13.4
Petroleum and natural gas.....	2,752	2,753	2,695	2,735	2,709	2,669	2,728	2,780	2,874	2,827	2,767	2,736	2,757	92.7
Limestone.....	1,244	834	870	1,054	1,279	1,488	1,389	1,461	1,438	1,452	1,401	1,334	988	54.4
Sandstone.....	288	307	284	269	247	269	276	283	284	297	327	328	285	75.3
Lead and zinc.....	239	234	235	237	248	248	237	253	245	238	243	229	221	87.4
Clay.....	164	143	121	120	113	140	164	168	164	171	170	188	186	60.1
Abrasive materials.....	21	22	22	22	21	21	23	23	23	33	17	8	17	24.2
All other industries.....	645	734	629	682	613	645	612	623	660	676	657	636	673	73.3

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TABLE 7.—DETAILED STATISTICS FOR MINING INDUSTRIES: 1919.

	PRODUCING ENTERPRISES.								
	Total.	Coal, bituminous.	Petroleum and natural gas.	Limestone.	Sandstone.	Lead and zinc.	Clay.	Abrasive materials.	All other. ¹
Number of enterprises.....	772	447	236	41	15	6	10	5	12
Number of mines and quarries.....	590	499		41	15	6	10	5	12
Number of petroleum and natural-gas wells.....	10,498		16,498						14
Number of natural-gas gasoline plants.....	72		72						
Capital.....	\$231,836,571	\$166,669,312	\$46,207,394	\$8,810,097	\$3,788,564	\$460,642	\$1,472,582	\$124,500	\$4,303,480
Principal expenses:									
Salaries and wages—									
Officers.....	\$3,261,099	\$2,653,066	\$263,292	\$183,898	\$101,243	\$600	\$25,800	\$900	\$31,400
Superintendents and managers.....	\$3,654,903	\$3,094,522	\$283,255	\$37,472	\$41,695	\$28,559	\$18,976	\$2,400	\$98,027
Technical employees.....	\$574,419	\$542,522		\$11,805		\$6,326			\$13,766
Clerks, etc.....	\$2,633,442	\$2,262,685	\$195,921	\$115,634	\$20,260	\$7,642	\$9,565	\$1,050	\$20,697
Wage earners.....	\$94,178,504	\$87,796,328	\$3,277,515	\$1,447,647	\$335,756	\$312,046	\$173,976	\$18,527	\$816,709
Supplies and materials.....	\$18,710,093	\$15,345,498	\$1,692,172	\$835,598	\$182,443	\$136,219	\$61,191	\$4,673	\$455,405
Cost of natural gas purchased as material and resold.....	\$91,650		\$91,650						
Fuel.....	\$4,810,013	\$4,154,744	\$151,570	\$231,915	\$127,258	\$4,820	\$24,505	\$3,110	\$112,691
Power.....	\$974,466	\$663,142	\$3,079	\$158,063	\$43,089	\$95,626	\$500		\$1,977
Royalties and rents.....	\$6,636,176	\$1,704,594	\$4,768,871	\$34,501	\$9,853	\$51,142	\$66,094	\$621	\$500
Taxes.....	\$6,890,465	\$4,487,294	\$1,970,994	\$45,598	\$42,029	\$877	\$14,854	\$281	\$323,628
Contract work.....	\$431,555	\$68,942	\$359,082		\$3,531				
Expenditures for development (included in the above items).....	\$4,331,819	\$2,959,034	\$1,133,165	\$13,483	\$16,450	\$16,534		\$718	\$191,935
Value of products.....	\$178,673,065	\$138,767,835	\$31,263,563	\$3,776,626	\$1,329,389	\$621,296	\$472,284	\$45,205	\$2,399,867
Persons engaged in industry.....	84,309	77,825	3,506	1,448	353	262	186	28	701
Proprietors and firm members (total).....	691	199	449	14	13	2	8	2	4
Number performing manual labor.....	126	114	2	3	3		2	2	
Salaried officers.....	665	501	44	42	22	1	6	1	8
Superintendents and managers.....	1,501	1,350	112	49	10	9	10	2	19
Technical employees.....	248	229		5		3			11
Clerks, etc.....	2,001	1,706	149	94	20	8	8	2	14
Wage earners (average number).....	79,123	73,780	2,762	1,244	283	239	154	21	645
Wage earners, by occupation (Dec. 15):									
Above ground.....	14,880	9,866	2,758	1,342	298	92	126	25	373
Below ground.....	75,566	75,045				129	62	7	323
Foremen, shift bosses, etc.—									
Above ground.....	485	375		62	19	1	5		28
Below ground.....	930	898				7	2		23
Engineers, hoistmen, electricians, mechanics, etc.—									
Above ground.....	6,667	3,827	2,391	249	59	18	16		107
Below ground.....	2,207	2,174					1		32
Miners, quarrymen, and drillmen, including their helpers—									
Above ground.....	729	253		387	41		29		19
Below ground.....	43,002	42,888				23	23	5	63
Timbermen, trackmen, and men engaged in hauling, tramping, etc.—									
Above ground.....	924	749		118	33	9	8		7
Below ground.....	16,822	16,645				52	8		117
Muckers, loaders, laborers, and others not classified—									
Above ground.....	5,298	4,126	367	523	62	12	74		134
Below ground.....	12,605	12,440				47	28	2	88
Wage earners employed in mills and beneficiating plants—									
Above ground.....	777	536		3	84	52	2	17	83
Number of females included in wage earners reported above—									
Above ground.....	20	17			2		1		
Mineral and oil land operated..... acres.....	945,362	752,316	169,025	14,922	1,327	898	2,055	1,964	2,855
Land controlled, total..... acres.....	1,031,783	799,060	169,025	52,900	1,441	898	2,118	2,144	4,197
Mineral and oil land owned.....	617,833	596,082	2,434	14,348	622	368	830	1,024	2,125
Mineral and oil land leased.....	329,448	158,153	166,591	574	705	530	1,225	940	730
Timber and other lands owned and leased.....	84,502	44,825		37,978	114		63	180	1,342
Power used: Aggregate horsepower.....	318,231	247,142	35,430	22,325	3,806	1,078	2,779	250	4,521
Prime movers (horsepower, total).....	261,934	205,777	35,326	11,860	1,916	80	2,754	250	4,521
Steam engines—									
Number.....	2,077	1,609	170	161	31	1	27	2	76
Horsepower.....	208,782	186,926	3,688	9,125	1,774	30	2,742	250	4,347
Steam turbines—									
Number.....	42	36		5					1
Horsepower.....	19,728	17,725		1,953					50
Internal-combustion engines—									
Number.....	1,855	88	1,723	18	14		2		10
Horsepower.....	33,424	1,128	31,738	282	142		12		124
Purchased power (horsepower, total).....	56,297	41,365	104	10,965	1,890	1,948	25		
Electric motors operated by purchased current—									
Number.....	1,432	1,070	8	222	70	61	1		
Horsepower.....	56,267	41,365	74	10,965	1,890	1,948	25		
Other equipment operated by purchased power (horsepower).....	30		30						
Electric motors run by current generated by enterprise using:									
Number.....	3,218	3,165	2		8		17		26
Horsepower.....	97,160	95,916	25		341		478		400
Fuel used:									
Coal, bituminous..... tons, 2,000 pounds.....	2,092,655	1,946,807	3,385	67,618	32,829	788	8,387	1,150	31,693
Coke..... tons, 2,000 pounds.....	400				400				
Fuel oils..... barrels.....	7,536	370	6,777	53	240				96
Gasoline and other volatile oils..... barrels.....	4,272	1,830	1,581	507	114		10		230
Natural gas..... 1,000 cubic feet.....	1,809,962		1,809,962						

¹ Includes enterprises as follows: Fluorspar, 11; pyrite, 1.