

CONTENTS—NORTH DAKOTA.

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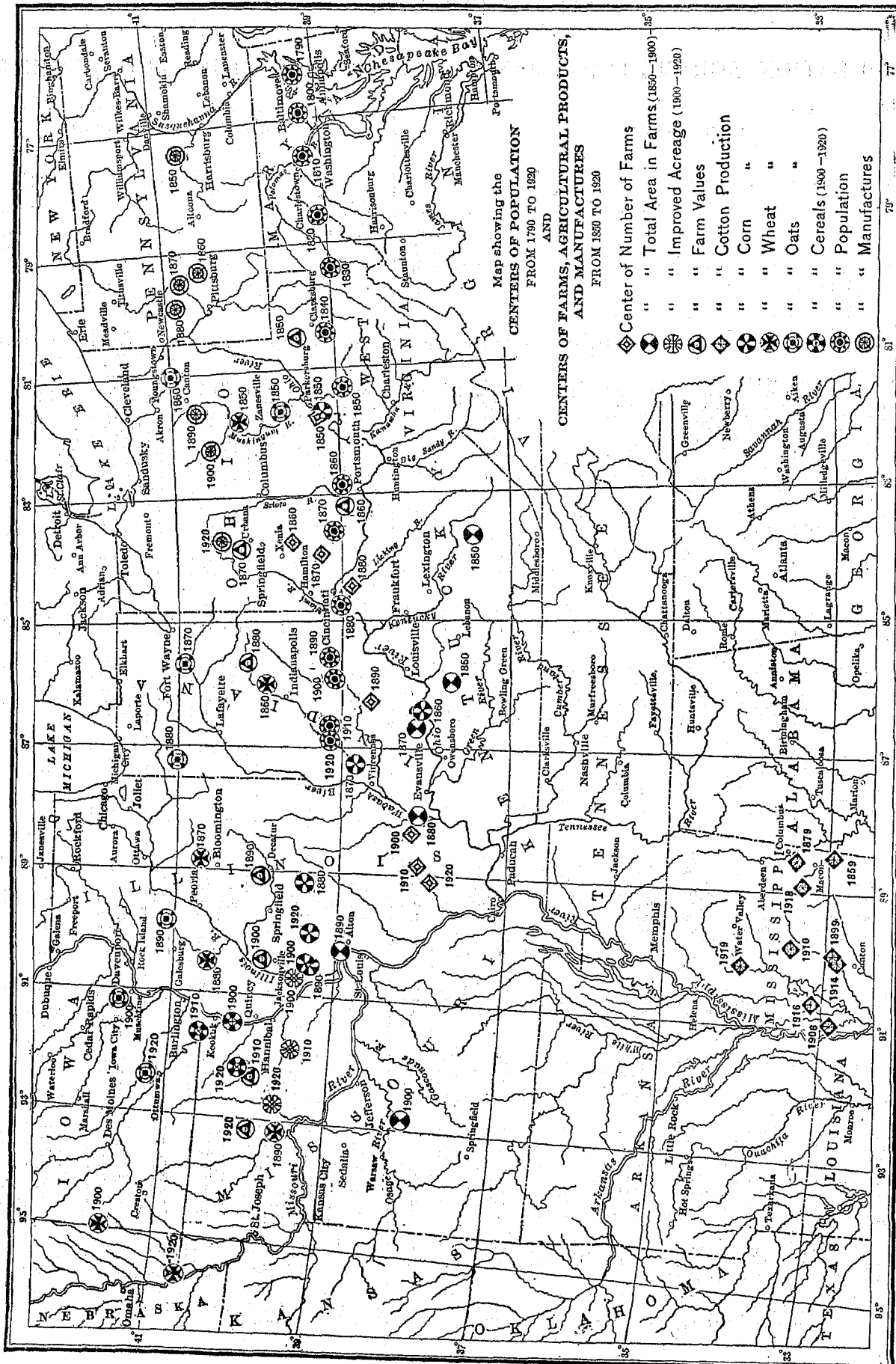
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(6)

NOTE.—The centers for manufactures and for all crops except cotton are based on data for the year preceding the census year indicated on the map; for the centers of cotton production the exact dates are shown on the map.

NORTH DAKOTA.

NUMBER AND DISTRIBUTION OF INHABITANTS.

Population of the state.—According to the Fourteenth Census, taken as of January 1, 1920, the population of North Dakota is 646,872, which represents an increase of 69,816, or 12.1 per cent, since 1910. During the same period the population of the United States increased by 14.9 per cent. The following summary shows the population of North Dakota

from 1890 to 1920, inclusive, together with the number and per cent of increase for each decade, in comparison with the per cent of increase for the United States as a whole. The population of that part of Dakota territory which now constitutes the state of North Dakota was 36,909 in 1880 and 2,405 in 1870.

POPULATION OF NORTH DAKOTA: 1890 TO 1920.

| CENSUS YEAR. | Population. | INCREASE OVER PRECEDING CENSUS. | | Per cent of increase for the United States. |
|--------------|-------------|---------------------------------|-----------|---|
| | | Number. | Per cent. | |
| 1920..... | 646,872 | 69,816 | 12.1 | 14.9 |
| 1910..... | 577,056 | 257,910 | 80.8 | 21.0 |
| 1900..... | 319,146 | 128,163 | 67.1 | 20.7 |
| 1890..... | 190,983 | | | |

Counties.—North Dakota has 53 counties, 4 of which (Golden Valley, Grant, Sioux, and Slope) have been organized from parts of 2 others (Billings and Morton) since 1910. Of the remaining 47 counties whose boundaries have remained unchanged, 37 show increases and 10 decreases as compared with 1910. (See Table 1.) Because of the changes in area due to the organization of the new counties it has been necessary, in preparing the accompanying maps, showing rates of increase or decrease in total and rural population, to combine Grant, Morton, and Sioux Counties and to combine Billings, Golden Valley, and Slope Counties.

Density of population.—The total land area of the state is 70,183 square miles. The average number of inhabitants to the square mile in 1920 is 9.2 (see Table 1), as against 8.2 in 1910 and 4.5 in 1900.

Minor civil divisions.—The political units into which the counties are divided are collectively termed "minor civil divisions." The counties of North Dakota are made up of 2,119 primary divisions, comprising 1,268 civil townships, 297 unorganized townships (including 5 for which no population was reported in 1920), 212 school townships, 32 school districts, 18 election precincts, 92 cities, 198 villages, and 2 towns. The only

HISTORICAL NOTE.—The name Dakota was originally that of an Indian nation which inhabited the region now comprising North Dakota and adjacent states. The word signifies "friends, allies, or confederates."

The first authentic exploration within the present limits of North Dakota was made in 1738 when the French explorers, De la Verendrye and his sons, attempted to reach the Pacific Ocean. In 1804 and 1806 the United States Government exploring expedition under Lewis and Clark passed through the Dakota country by way of the Missouri River. British subjects had trading posts in this region early in the nineteenth century, and in 1810 Lord Selkirk, considering it British territory, built a fort near Pembina. Shortly afterward a colony was planted here under a grant from the Hudson Bay Company. In 1823 the United States discovered that this place was within its borders, and raised the American flag over it.

That part of North Dakota lying west and southwest of the drainage basin of the Red River of the North was originally a part of the vast area known as Louisiana, which was ceded by France to Spain in 1762, retroceded in 1800, and purchased by the United States in 1803. It belonged successively to the district of Louisiana (1804-5), the territory of Louisiana (1805-1812), and the territory of Missouri (1812-1834). That portion of the state lying within the drainage basin of the Red River of the North, which was included within the original area of the United States, formed a part of the Territory Northwest of the Ohio River from 1787 to 1800, of the territory of Indiana from 1800 to 1809, of the territory of Illinois from 1809 to 1818, and of the territory of Michigan from 1818 to 1836. In 1834 the western limits of Michigan had been extended westward to the Missouri and White Earth Rivers,

and that part of the present area of the state lying east of these rivers belonged successively to Michigan territory from 1834 to 1836, to Wisconsin territory from 1836 to 1838, to Iowa territory from 1838 to 1849, and to Minnesota territory from 1849 to 1858. The area between the Missouri and White Earth Rivers and the present western boundary of North Dakota formed a part of the "Indian Country" from 1834 to 1854, and in the latter year was included in the territory of Nebraska.

Upon the admission of the state of Minnesota in 1858, the region lying between that state and the Missouri and White Earth Rivers was left without legal name or existence, and it so remained until March, 1861, when the territory of Dakota was organized. At this time Dakota extended from the Keyapaha, Niobrara, and Missouri Rivers and the forty-third parallel to the Canadian boundary and from Minnesota to the Rocky Mountains, thus including the area now comprising most of Montana and nearly half of Wyoming. In 1863, when Idaho territory was formed, the region between the Rocky Mountains and the present western boundaries of North and South Dakota was included. Most of the present area of Wyoming was transferred from Idaho to Dakota in 1864, and continued a part of the latter territory until 1868, when Wyoming territory was organized. In 1882 a small triangular tract of land lying south of the forty-third parallel and west of the Missouri River was transferred from Dakota to Nebraska.

At the election of November, 1887, the question of the division of Dakota territory into two states was submitted to the people and was carried at the polls. The two Dakotas were admitted to the Union in November, 1889, by the same act of Congress, as the thirty-ninth and fortieth states. The boundaries of North Dakota have remained unchanged since its admission.

POPULATION—NORTH DAKOTA.

secondary divisions are Hamilton and Neche villages, in Pembina County, each of which forms a part of the township in which it is located. In addition to these minor civil divisions, there are in the state 2 Indian reservations—Fort Berthold and Turtle Mountain—which, although independent of the county organizations, have been treated as forming parts of the counties in which located. (See Table 2.)

Cities.—North Dakota has 92 cities, of which Fargo, with a population of 21,961, is the largest. (See Tables 3 and 4.)

The following summary shows, for each city having 5,000 or more inhabitants in 1920, the population at each census for which figures are available, together with the number and per cent of increase during the preceding decade:

POPULATION OF PRINCIPAL CITIES FROM EARLIEST CENSUS TO 1920.

[A minus sign (—) denotes decrease.]

| CITY AND CENSUS YEAR. | Population. | INCREASE OVER PRECEDING CENSUS. | | CITY AND CENSUS YEAR. | Population. | INCREASE OVER PRECEDING CENSUS. | |
|-----------------------|-------------|---------------------------------|-----------|-----------------------|-------------|---------------------------------|-----------|
| | | Number. | Per cent. | | | Number. | Per cent. |
| Bismarck: | | | | Grand Forks: | | | |
| 1920..... | 7,122 | 1,079 | 30.8 | 1920..... | 14,010 | 1,532 | 12.3 |
| 1910..... | 5,443 | 2,124 | 04.0 | 1910..... | 12,478 | 4,326 | 63.1 |
| 1900..... | 3,319 | 1,133 | 51.8 | 1900..... | 7,652 | 2,673 | 53.7 |
| 1890..... | 2,185 | 428 | 24.3 | 1890..... | 4,979 | 3,274 | 192.0 |
| 1880..... | 1,758 | | | 1880..... | 1,705 | | |
| Devils Lake: | | | | Jamestown: | | | |
| 1920..... | 5,140 | -17 | -0.3 | 1920..... | 6,027 | 2,269 | 52.1 |
| 1910..... | 5,157 | 3,428 | 193.3 | 1910..... | 4,358 | 1,505 | 52.8 |
| 1900..... | 1,729 | 883 | 104.4 | 1900..... | 2,853 | 557 | 24.3 |
| 1890..... | 846 | | | 1890..... | 2,206 | 1,003 | 454.2 |
| 1880..... | | | | 1880..... | 393 | | |
| Fargo: | | | | Minot: | | | |
| 1920..... | 21,961 | 7,030 | 53.2 | 1920..... | 10,476 | 4,288 | 69.3 |
| 1910..... | 14,331 | 4,742 | 49.5 | 1910..... | 6,188 | 4,911 | 384.6 |
| 1900..... | 9,589 | 3,925 | 69.3 | 1900..... | 1,277 | 702 | 122.1 |
| 1890..... | 5,664 | 2,971 | 110.3 | 1890..... | 575 | | |
| 1880..... | 2,693 | | | | | | |

Urban and rural population.—The Census Bureau defines urban population as that residing in cities and other incorporated places having 2,500 inhabitants or more, and rural population as that residing outside such incorporated places.

The following summary presents, for the last three censuses, figures showing the urban and rural population of the state distributed among places grouped according to specified limits of population. The classification for each census is based upon the popu-

lation of the various places as shown by the returns of that census. Consequently the territory comprised within any one class of cities or that designated as urban or as rural does not remain fixed, because any given place may, through the growth or the decline of its population, pass from one class to another at successive censuses. The proportion of the population of North Dakota living in places of 2,500 or more increased from 7.3 per cent in 1900 to 11 per cent in 1910 and to 13.6 per cent in 1920.

URBAN AND RURAL POPULATION: 1920, 1910, AND 1900.

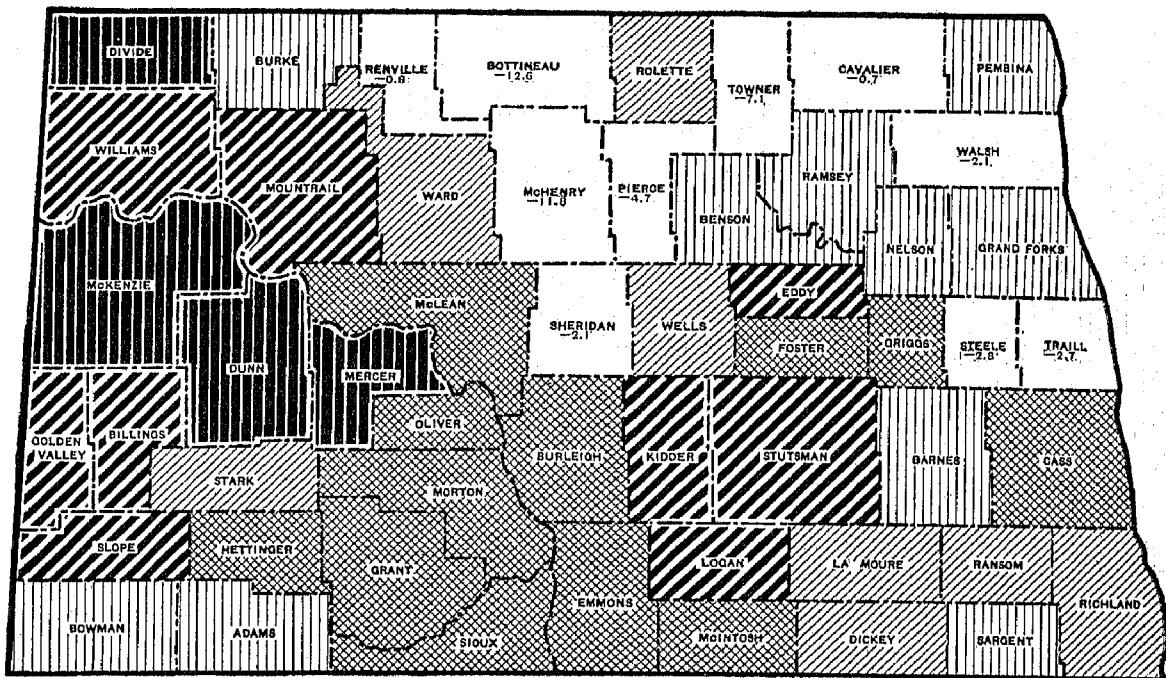
| CLASS OF PLACES. | 1920 | | 1910 | | 1900 | | PER CENT OF TOTAL POPULATION. | | |
|--|-------------------|-------------|-------------------|-------------|-------------------|-------------|-------------------------------|-------|-------|
| | Number of places. | Population. | Number of places. | Population. | Number of places. | Population. | 1920 | 1910 | 1900 |
| Total population..... | | 646,872 | | 577,056 | | 319,146 | 100.0 | 100.0 | 100.0 |
| Urban territory..... | 12 | 88,239 | 10 | 63,236 | 4 | 23,413 | 13.6 | 11.0 | 7.3 |
| Cities of..... | | | | | | | | | |
| 10,000 inhabitants or more..... | 3 | 46,447 | 2 | 26,809 | | | 7.2 | 4.6 | |
| 5,000 to 10,000 inhabitants..... | 3 | 18,889 | 3 | 16,788 | 2 | 17,241 | 2.9 | 2.9 | 5.4 |
| 2,500 to 5,000 inhabitants..... | 6 | 22,903 | 5 | 19,639 | 2 | 6,172 | 3.5 | 3.4 | 1.9 |
| Rural territory..... | | 558,633 | | 513,820 | | 295,733 | 86.4 | 89.0 | 92.7 |
| Cities, towns, and villages of less than 2,500 inhabitants.. | 282 | 128,708 | 1 203 | 93,261 | 71 | 47,735 | 19.6 | 17.0 | 15.0 |
| Other rural territory..... | | 431,925 | | 415,559 | | 247,998 | 66.8 | 72.0 | 77.7 |

¹ Corrected figures.

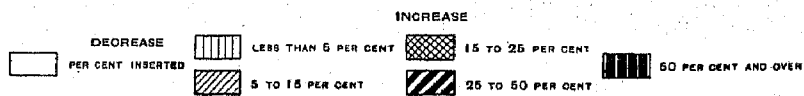
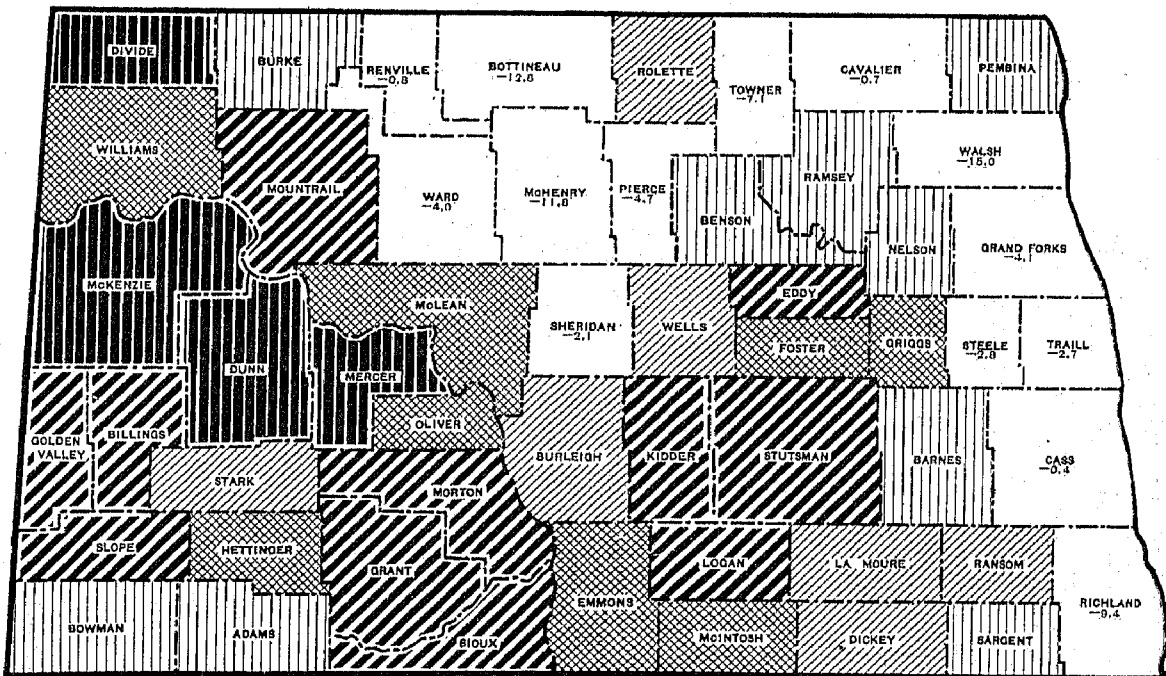
PER CENT OF INCREASE OR DECREASE OF POPULATION OF NORTH DAKOTA, BY COUNTIES: 1910-1920.

Rural population is defined as that residing outside of incorporated places having 2,500 inhabitants or more.

TOTAL POPULATION.



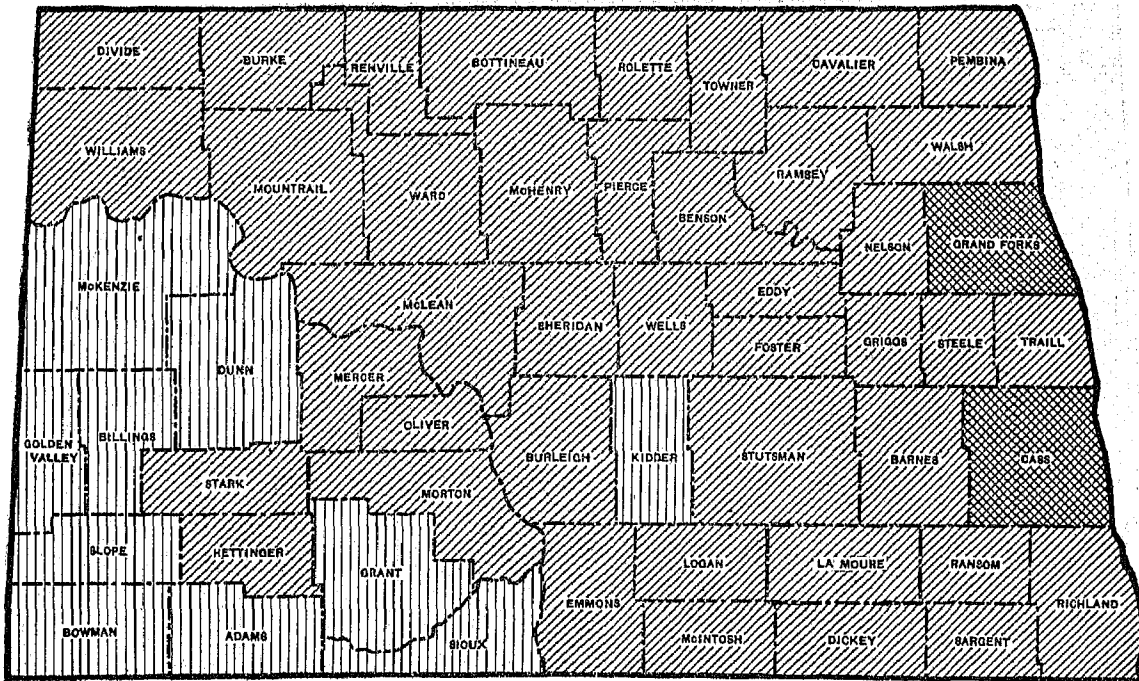
RURAL POPULATION.



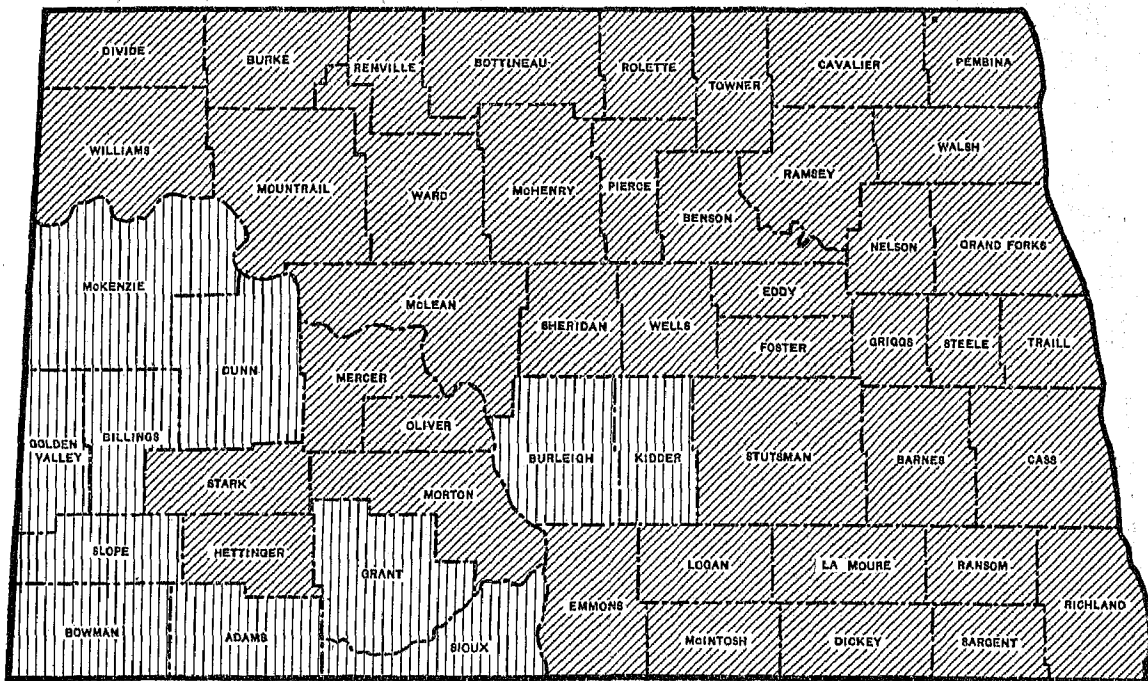
DENSITY OF POPULATION OF NORTH DAKOTA, BY COUNTIES: 1920.

Rural population is defined as that residing outside of incorporated places having 2,500 inhabitants or more.

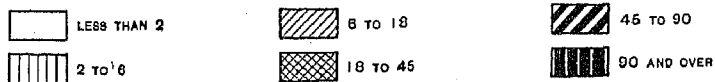
TOTAL POPULATION.



RURAL POPULATION.



NUMBER OF INHABITANTS PER SQUARE MILE



NUMBER AND DISTRIBUTION.

TABLE 1.—AREA AND POPULATION OF COUNTIES: 1870 TO 1920.

[In computing the increase from 1870 to 1900 for certain counties, the population of Indian reservations in 1900 has been deducted from the total population of the county in order to make it comparable with the total for 1870, which does not include the population of Indian reservations. The deductions thus made for the several counties are as follows: Benson, 1,268; McLean, 998; Mercer, 40; Morton, 2,208; Rolette, 2,598.]

[A minus sign (−) denotes decrease.]

| COUNTY. | Land area in square miles: 1920. | POPULATION. | | | | | | | | Per cent of increase. | | |
|---------------|----------------------------------|-------------|------------------|---------|---------|---------|---------|--------|---------------|-----------------------|---------------|--|
| | | 1920 | | 1910 | 1900 | 1890 | 1880 | 1870 | 1910 to 1920. | 1800 to 1910. | 1890 to 1900. | |
| | | Total. | Per square mile. | | | | | | | | | |
| North Dakota | 70,183 | 646,872 | 9.2 | 577,056 | 319,146 | 190,983 | 136,909 | 12,405 | 12.1 | 80.8 | 67.1 | |
| Adams | 997 | 5,593 | 5.6 | 5,407 | | | | | 3.4 | | | |
| Barnes | 1,510 | 18,078 | 12.4 | 18,066 | 13,169 | 7,045 | 1,585 | | 3.4 | 37.3 | 85.8 | |
| Benson | 1,364 | 13,095 | 9.6 | 12,681 | 8,320 | 2,460 | | | 3.3 | 52.4 | 186.7 | |
| Billings | 1,168 | 3,120 | 2.7 | 10,180 | 975 | 170 | 1,323 | | -69.3 | 944.7 | 473.5 | |
| Bottineau | 1,681 | 15,109 | 9.0 | 17,025 | 7,532 | 2,898 | | | -12.6 | 126.6 | 160.4 | |
| Bowman | 1,104 | 4,708 | 4.1 | 4,608 | | 0 | | | 2.1 | | | |
| Burke | 1,113 | 9,511 | 8.5 | 9,084 | | | | | 4.9 | | | |
| Burlingame | 1,051 | 15,373 | 14.6 | 13,087 | 6,081 | 4,247 | 3,240 | | 19.0 | 115.2 | 43.2 | |
| Cass | 1,703 | 41,477 | 24.3 | 33,935 | 28,625 | 10,213 | 8,998 | | 22.2 | 18.0 | 46.9 | |
| Cavalier | 1,494 | 15,555 | 10.4 | 15,039 | 12,580 | 6,471 | | | -6.7 | 24.5 | 94.4 | |
| Dickey | 1,142 | 10,499 | 9.2 | 9,839 | 6,061 | 5,573 | | | 6.7 | 62.3 | 8.8 | |
| Divide | 1,270 | 9,637 | 7.6 | 6,015 | | | | | 00.2 | | | |
| Dunn | 2,084 | 8,828 | 4.2 | 5,302 | | 159 | | | 00.5 | | | |
| Eddy | 651 | 6,493 | 10.0 | 4,800 | 3,330 | 1,377 | | | 36.3 | 44.1 | 141.8 | |
| Emmons | 1,503 | 11,288 | 7.2 | 9,796 | 4,349 | 1,971 | 38 | | 15.2 | 125.2 | 120.0 | |
| Foster | 644 | 6,108 | 9.5 | 5,313 | 3,770 | 1,210 | 37 | | 15.0 | 40.9 | 211.0 | |
| Golden Valley | 1,013 | 4,832 | 4.8 | | | | | | | | | |
| Grand Forks | 1,433 | 28,795 | 20.1 | 27,888 | 24,459 | 18,357 | 6,248 | | 3.3 | 14.0 | 88.2 | |
| Grant | 1,681 | 9,553 | 5.7 | | | | | | | | | |
| Griggs | 717 | 7,402 | 10.3 | 6,274 | 4,744 | 2,817 | | | 18.0 | 32.3 | 68.4 | |
| Hettinger | 1,132 | 7,685 | 6.8 | 6,587 | | | | | 17.2 | | | |
| Kidder | 1,383 | 7,798 | 5.6 | 5,902 | 1,754 | 1,211 | 89 | | 30.8 | 239.9 | 44.8 | |
| La Moure | 1,147 | 11,664 | 10.1 | 10,724 | 6,048 | 3,187 | 20 | | 7.8 | 77.3 | 59.8 | |
| Logan | 907 | 7,723 | 7.7 | 6,108 | 1,025 | 597 | | | 25.2 | 279.0 | 172.2 | |
| McHenry | 1,888 | 16,544 | 8.2 | 17,027 | 5,263 | 1,584 | | | -11.8 | 235.0 | 231.6 | |
| McIntosh | 1,003 | 9,010 | 9.0 | 7,251 | 4,818 | 3,248 | | | 24.3 | 50.5 | 48.3 | |
| McKenzie | 2,347 | 9,544 | 3.4 | 5,720 | | 3 | | | 00.9 | | | |
| McLean | 2,305 | 17,266 | 7.5 | 14,490 | 4,770 | 800 | | | 10.1 | 102.0 | 341.0 | |
| Mercer | 1,110 | 8,224 | 7.4 | 4,747 | 1,778 | 428 | | | 73.2 | 107.0 | 360.1 | |
| Morton | 1,947 | 18,714 | 9.6 | 25,289 | 10,277 | 5,239 | 200 | | -20.0 | 146.1 | 54.0 | |
| Mountrail | 1,914 | 12,140 | 6.3 | 8,491 | | | | | 49.0 | | | |
| Nelson | 981 | 10,322 | 10.6 | 10,140 | 7,316 | 4,293 | | | 2.2 | 39.6 | 70.4 | |
| Oliver | 720 | 4,462 | 6.1 | 3,577 | 464 | | | | 23.7 | 201.3 | 113.4 | |
| Pembina | 1,117 | 16,177 | 13.6 | 14,749 | 17,869 | 14,334 | 4,802 | 1,213 | 2.9 | -17.5 | 24.7 | |
| Pierce | 1,105 | 9,427 | 8.8 | 9,740 | 4,765 | 905 | | | -4.7 | 104.4 | 126.5 | |
| Ramsey | 1,265 | 15,227 | 12.8 | 15,199 | 9,168 | 4,418 | 281 | | 1.5 | 65.2 | 402.0 | |
| Ransom | 860 | 11,618 | 13.5 | 10,346 | 6,019 | 5,393 | 537 | | 12.3 | 49.5 | 28.3 | |
| Renville | 899 | 7,776 | 8.6 | | | | | | -0.8 | | | |
| Richland | 1,437 | 20,887 | 14.5 | 18,659 | 17,387 | 10,751 | 3,597 | | 6.2 | 13.1 | 61.7 | |
| Rolette | 918 | 10,061 | 11.0 | 9,568 | 7,995 | 2,427 | | | 5.3 | 19.5 | 130.8 | |

CHANGES IN BOUNDARIES, ETC.

THE STATE.—Totals include population as follows: For 1890—of Indian reservations specially enumerated, not distributed by counties (8,264); of Buford and Flannery Counties (875), taken to form Williams County between 1890 and 1900; of Church, Garfield, Mountrail, Stevens, and Wallace Counties and old Hettinger, old Burleigh, old Sheridan, and old Williams Counties (568), annexed to other counties between 1890 and 1900. For 1880—of Mountrail, Stevens, and old Williams Counties (274), annexed to other counties between 1890 and 1900; of Howard (12), taken to form Allred, Dunn, McKenzie, and Wallace; and of Walletoe (432), taken to form Buford and Flannery between 1880 and 1890. For 1870—of unorganized territory within present limits of North Dakota (1,192). Figures for 1880 and 1870 relate to that part of Dakota territory which now constitutes North Dakota.

ADAMS.—Organized from part of Stark, comprising part of old Hettinger, in 1907.

BARNES.—Organized from part of Burbank in 1875.

BENSON.—Organized from parts of De Smet (name changed from French in 1875,) and Ramsey in 1883.

BILLINGS.—Formed from unorganized territory in 1879; organized, and part taken to form old Bowman, in 1883; old Bowman, old McKenzie, and Allred annexed in 1897; part taken to form part of McKenzie in 1905; parts taken to form Bowman in 1907, Golden Valley in 1912, and Slope in 1915.

BOTTINEAU.—Organized from part of Buffalo County, Dakota territory, in 1873; part annexed to McHenry in 1887; part of old Renville annexed in 1897.

BOWMAN.—Old Bowman formed from part of Billings in 1883 and annexed to Billings in 1897. Bowman organized from part of Billings in 1907.

BURKE.—Organized from part of Ward in 1910.

BURLEIGH.—Organized from part of Buffalo County, Dakota territory, in 1873; parts of Mercer and Morton annexed in 1875; parts taken to form Emmons in 1879, and part of Oliver in 1885; part annexed to Morton in 1887.

CASS.—Organized from part of Pembina in 1873; part taken to form part of Traill in 1875.

CAVALIER.—Organized from part of Pembina in 1873; part taken to form part of Towner in 1883.

DICKEY.—Organized from part of La Moure in 1881.

DIVIDE.—Organized from part of Williams in 1910.

DUNN.—Old Dunn formed from part of Howard in 1883 and annexed to Stark in 1897. Dunn organized from parts of Mercer and Stark in 1903.

EDDY.—Organized from part of Foster in 1885.

EMMONS.—Formed from part of Burleigh in 1879; organized in 1883.

FOSTER.—Organized from part of Pembina in 1873; parts taken to form Eddy in 1885, part of Griggs in 1881, and part of Nelson in 1883.

GOLDEN VALLEY.—Organized from part of Billings in 1912.

GRAND FORKS.—Organized from part of Pembina in 1873; parts taken to form part of Traill in 1875, part of Walsh in 1881, and part of Nelson in 1883.

GRANT.—Organized from part of Morton in 1916.

GRIGGS.—Organized from parts of Burbank, Foster, and Traill in 1881; part taken to form part of Steele in 1883.

HETTINGER.—Old Hettinger formed from part of Stark in 1883; annexed to Stark in 1897. Hettinger organized from part of Stark in 1907.

KIDDER.—Organized from part of Buffalo County, Dakota territory, in 1873.

LA MOURE.—Organized from part of Pembina in 1873; part taken to form Dickey in 1881.

LOGAN.—Organized from part of Buffalo County, Dakota territory, in 1873; part taken to form McIntosh in 1883.

MCHENRY.—Organized from part of Buffalo County, Dakota territory, in 1873; part of Bottineau annexed, and part taken to form part of Church in 1887; part of Church annexed between 1890 and 1900.

MCINTOSH.—Organized from part of Logan in 1883.

MCKENZIE.—Old McKenzie formed from part of Howard in 1883 and annexed to Billings in 1897. McKenzie organized from parts of Billings and Stark (comprising the unorganized counties of Allred, McKenzie, and Wallace) in 1905.

MCLEAN.—Organized from part of Stevens in 1883; Garfield, old Sheridan, and parts of Church and Stevens annexed between 1890 and 1900; part taken to form Sheridan in 1909.

MERCER.—Organized from unorganized territory in 1875; part annexed to Burleigh in 1875; part taken to form part of Oliver in 1885; part of old Williams annexed between 1890 and 1900; part taken to form part of Dunn in 1908.

MORTON.—Organized from unorganized territory in 1873; part annexed to Burleigh in 1875, and part of Burleigh annexed in 1887; parts taken to form Sioux (comprising Standing Rock Indian Reservation) in 1914, and Grant in 1916.

MOUNTRAIL.—Old Mountrail organized from part of Buffalo County, Dakota territory, in 1873; annexed to Ward in 1891; Mountrail organized from part of Ward in 1909.

NELSON.—Organized from parts of Foster, Grand Forks, and Ramsey in 1883.

OLIVER.—Organized from parts of Burleigh and Mercer in 1885.

PEMBINA.—Chippewa and Kittson annexed in 1871; parts taken to form Burbank, Cass, Cavalier, Foster, Grand Forks, Ramsey, Ransom, Richland, and parts of La Moure and Stutsman in 1873 and part of Walsh in 1881.

PIERCE.—Organized from part of De Smet in 1887; part of Church annexed between 1890 and 1900.

RAMSEY.—Organized from part of Pembina in 1873; parts taken to form parts of Benson and Nelson in 1883.

RANSOM.—Organized from part of Pembina in 1873; part taken to form part of Sargent in 1883.

RENVILLE.—Old Renville formed from part of Buffalo County, Dakota territory, in 1873; part taken to form part of Ward in 1885, and parts annexed to Bottineau and Ward in 1897. Renville organized from part of Ward in 1910.

RICHLAND.—Organized from part of Pembina in 1873; part taken to form part of Towner in 1883.

ROLETTE.—Organized from part of Buffalo County, Dakota territory, in 1873; part taken to form part of Towner in 1883.

* Includes population (2,208) of that part of Standing Rock Indian Reservation in North Dakota, not returned by counties in 1900.
 † Includes population (511) of Fort Yates and that part of Standing Rock Indian Reservation in North Dakota, not returned by counties in 1890.

POPULATION—NORTH DAKOTA.

TABLE 1.—AREA AND POPULATION OF COUNTIES: 1870 TO 1920—Continued.

[In computing the increase from 1890 to 1900 for certain counties, the population of Indian reservations in 1900 has been deducted from the total population of the county in order to make it comparable with the total for 1890, which does not include the population of Indian reservations. The deductions thus made for the several counties are as follows: Benson, 1,268; McLean, 998; Mercer, 40; Morton, 2,208; Rolette, 2,393.]

[A minus sign (—) denotes decrease.]

| COUNTY. | Land area in square miles: 1920. | POPULATION. | | | | | | | | | |
|-----------------------|----------------------------------|-------------|------------------|--------|--------|--------|-------|------|-----------------------|---------------|---------------|
| | | 1920 | | 1910 | 1900 | 1890 | 1880 | 1870 | Per cent of increase. | | |
| | | Total. | Per square mile. | | | | | | 1910 to 1920. | 1900 to 1910. | 1890 to 1900. |
| Sargent ¹ | 855 | 9,655 | 11.3 | 9,202 | 6,039 | 5,076 | | | 4.9 | 52.4 | 19.0 |
| Sheridan ¹ | 996 | 7,935 | 8.0 | 8,103 | | | | | -2.1 | | |
| Sioux ¹ | 1,114 | 3,303 | 3.0 | | | | | | | | |
| Slope ¹ | 1,223 | 4,940 | 4.0 | | | | | | | | |
| Stark ¹ | 1,356 | 13,542 | 10.0 | 12,504 | 7,621 | 2,304 | | | 8.3 | 64.1 | 230.5 |
| Steele ¹ | 717 | 7,401 | 10.3 | 7,616 | 5,888 | 3,777 | | | -2.8 | 29.3 | 55.9 |
| Stutsman ¹ | 2,282 | 24,575 | 10.8 | 18,189 | 9,143 | 5,266 | 1,007 | | 35.1 | 98.9 | 73.6 |
| Towner ¹ | 1,037 | 8,327 | 8.0 | 8,963 | 6,491 | 1,450 | | | -7.1 | 38.1 | 347.7 |
| Trails ¹ | 865 | 12,210 | 14.1 | 12,545 | 13,107 | 10,217 | 4,123 | | -2.7 | -4.3 | 28.3 |
| Walsh ¹ | 1,282 | 19,078 | 14.9 | 19,491 | 20,288 | 16,687 | | | -2.1 | -3.0 | 22.3 |
| Ward ¹ | 2,054 | 28,811 | 14.0 | 25,281 | 7,961 | 1,681 | | | 14.0 | 217.6 | 373.6 |
| Wells ¹ | 1,293 | 12,957 | 10.0 | 11,814 | 8,310 | 1,212 | | | 9.7 | 42.2 | 585.6 |
| Williams ¹ | 2,138 | 17,980 | 8.4 | 14,234 | 1,530 | | | | 26.3 | 830.3 | |

CHANGES IN BOUNDARIES, ETC.

SARGENT.—Organized from parts of Ransom County and Sisseton and Wahpeton Indian Reservation in 1883.
SHERIDAN.—Old Sheridan formed from part of Buffalo County, Dakota territory, in 1873; part taken to form part of Church in 1887; annexed to McLean in 1891. Sheridan organized from part of McLean in 1909.
SIoux.—Organized from part of Morton County (comprising Standing Rock Indian Reservation) in 1914.
SLOPE.—Organized from part of Billings in 1915.
STARK.—Formed from unorganized territory in 1870; organized, and part taken to form old Hettinger, in 1883; old Dunn, old Hettinger, and Wallace annexed in 1897; part of old Williams annexed between 1890 and 1900; parts taken to form Adams and Hettinger in 1907; part of Dunn in 1908, and part of McKenzie in 1905.
STEELE.—Organized from parts of Griggs and Traill in 1883.
STUTSMAN.—Organized from parts of Buffalo County, Dakota territory, and Pembina in 1873.

TOWNER.—Organized from parts of Cavalier and Rolette in 1883.
TRAILS.—Organized from parts of Burbank, Cass, and Grand Forks in 1875; parts taken to form part of Griggs in 1881 and part of Steele in 1883.
WALSH.—Organized from parts of Grand Forks and Pembina in 1881.
WARD.—Organized from parts of Stevens and old Renville in 1885; Mountrail annexed in 1891; part of old Renville annexed in 1897; part of Stevens annexed between 1890 and 1900; parts taken to form Mountrail in 1909 and Burke and Renville in 1910.
WELLS.—Organized as Gingras from part of Buffalo County, Dakota territory, in 1873. Name changed in 1881.
WILLIAMS.—Organized from Buford and Flannery between 1890 and 1900; part taken to form Divide in 1910.

TABLE 2.—POPULATION OF COUNTIES BY MINOR CIVIL DIVISIONS: 1920, 1910, AND 1900.

[Counties showing no totals for 1910 or 1900 have been organized at some time between the censuses; counties showing totals but no comparative figures for minor civil divisions for 1910 or 1900 have been redivided at some time between the censuses. For other changes in boundaries, etc., between 1910 and 1920, see footnotes; for those between 1900 and 1910, see Reports of the Thirteenth Census: 1910, Vol. III, Table 1, p. 323. For population of incorporated places, see Table 3.]

| MINOR CIVIL DIVISION. | 1920 | 1910 | 1900 | MINOR CIVIL DIVISION. | 1920 | 1910 | 1900 |
|---|--------------|--------------|------|---|---------------|---------------|---------------|
| Adams County | 5,583 | 5,407 | | Barnes County | 18,678 | 18,066 | 13,159 |
| Argonne township ¹ (T. 131, R. 96) | 163 | | | Alta township | 200 | 222 | 265 |
| Beisigl township ¹ (T. 131, R. 91) | 130 | 123 | | Anderson township | 240 | 244 | 155 |
| Bucyrus township ¹ | 187 | 315 | | Ashtabula township ² (T. 142, R. 53) | 201 | 205 | 169 |
| Bucyrus village ¹ | 113 | | | Baldwin township | 238 | 232 | 214 |
| Cedar township ¹ (T. 132, R. 96) | 128 | 552 | | Binghampton township | 695 | 666 | 509 |
| Cedar Butte township ¹ (T. 131, R. 92) | 136 | 184 | | Brimer township | 210 | 216 | 129 |
| Chandler township ¹ (T. 131, R. 94) | 132 | 100 | | Cuba township | 248 | 233 | 197 |
| Clermont township ¹ | 200 | 253 | | Dacey township | 233 | 256 | 342 |
| Dakota township ¹ (T. 130, R. 93) | 121 | 173 | | Dacey village | 203 | 265 | |
| Darling Springs township ¹ (T. 132, R. 97) | 101 | 100 | | Eckelson township | 338 | 327 | 231 |
| Duck Creek township ¹ (T. 130, R. 95) | 165 | 88 | | Edna township ² | 206 | 369 | 263 |
| Gilstrap township | 212 | 261 | | Ellsbury township ² | 213 | 240 | 104 |
| Haynes village ¹ | 113 | | | Getchell township ² (T. 141, R. 53) | 181 | 207 | 294 |
| Hettinger city | 817 | 766 | | Grand Prairie township | 221 | 183 | 212 |
| Hettinger township ¹ (T. 129, R. 98) | 181 | 98 | | Green township | 303 | 277 | 206 |
| Holden township ¹ (T. 129, R. 97) | 123 | 115 | | Greenland township | 321 | 343 | 173 |
| Holt township ¹ (T. 130, R. 96) | 190 | 100 | | Hemen township | 228 | 179 | 179 |
| Jordan township ¹ (T. 131, R. 93) | 85 | 117 | | Hobart township | 189 | 195 | 239 |
| Kansas City township ¹ (T. 130, R. 94) | 202 | 220 | | Kathryn village ² | 289 | | |
| Lemmon township ¹ (T. 131, R. 98) | 110 | 156 | | Lake Town township | 162 | 163 | 145 |
| Lightning Creek township ¹ (T. 129, R. 98) | 152 | | | Leal village ² | 88 | | |
| Maine township ¹ (T. 132, R. 95) | 158 | | | Litchville village | 528 | 484 | |
| North Lemmon township | 232 | 269 | | Mansfield township | 212 | 174 | 186 |
| Orange township | 207 | 238 | | Marsh township ² (T. 139, R. 53) | 216 | 183 | 187 |
| Reeder township ¹ (T. 130, R. 98) | 216 | 140 | | Meadow Lake township | 258 | 191 | 173 |
| Reeder village | 253 | 198 | | Minnie Lake township | 216 | 231 | 194 |
| Scott township | 163 | 197 | | Nelson township | 269 | 299 | 319 |
| South Fork township ¹ (T. 130, R. 91) | 169 | 244 | | Noltimer township | 254 | 254 | 226 |
| Spring Butte township ¹ (T. 130, R. 92) | 121 | 200 | | Nome village | 287 | 218 | |
| Taylor Butte township ¹ (T. 131, R. 95) | 97 | | | Norma township | 303 | 282 | 303 |
| Whetstone township ¹ (T. 132, R. 93) | 76 | 94 | | Oakhill township ² | 289 | 572 | 674 |
| Wolf Butte township | 130 | 100 | | Oriska township ² | 199 | 464 | 322 |
| | | | | Oriska village ² | 300 | | |
| | | | | Pierce township | 224 | 244 | 205 |
| | | | | Pillsbury village ¹ | 142 | | |
| | | | | Potter township | 244 | 217 | 193 |
| | | | | Raritan township | 435 | 446 | 433 |

¹ ADAMS.—Townships organized since 1910: Argonne, Maine, and Taylor Butte from parts of Cedar; Beisigl, Cedar Butte, Chandler, Dakota, Darling Springs, Duck Creek, Hettinger, Holden, Holt, Jordan, Kansas City, Lemmon, South Fork, Spring Butte, and Whetstone, from unorganized territory; Lightning Creek from part of Reeder. Bucyrus village incorporated from part of Bucyrus township and Haynes village from part of Clermont township since 1910.

² BARNES.—For footnote, see following page.

TABLE 2.—POPULATION OF COUNTIES BY MINOR CIVIL DIVISIONS: 1920, 1910, AND 1900—Continued.

[Counties showing no totals for 1910 or 1900 have been organized at some time between the censuses; counties showing totals but no comparative figures for minor civil divisions for 1910 or 1900 have been redistricted at some time between the censuses. For other changes in boundaries, etc., between 1910 and 1920, see footnotes; for those between 1900 and 1910, see Reports of the Thirteenth Census: 1910, Vol. III, Table 1, p. 323. For population of incorporated places, see Table 3.]

Table with columns for County, Minor Civil Division, 1920, 1910, and 1900. Rows include Bowman County, Burke County, Burleigh County, and Cass County, listing various townships and villages with their respective population figures.

* BOWMAN.—Adelaide, Amor, Bowman, Boyson, Buena Vista, Gem, Goldfield, Grainbelt, Grand River, Haley, Hart, Langberg, Marion, Nebo, Rhams, Star, Stillwater, Sunny Slope, Talbot, and Whiting townships and school townships Dale, Golden Valley, Lone Tree, Mud Buttes, Seven Mile, Sunset Butte, and Wilson organized from unorganized territory since 1910. Gascoyne village incorporated from parts of Fischheim and Gascoyne townships, and Rhams village from part of Rhams township, since 1910.

* BURLEIGH.—Total for 1900 includes population (204) of townships taken to form other townships between 1900 and 1910. Townships organized from school townships since 1910: Burnt Creek, Florence Lake, Frances, Gibbs, Harriett, and Trygg from school townships of same names, respectively; Canfield from Andrews; Hay Creek from Hay Creek and part of Riverview; Steiber from Pleasant View; Summit from Scharunk; Wilson from Hawkeye. Other changes since 1910: Part of Beklund township annexed to Wilton city; Regan village incorporated from parts of Estherville and Ghylin townships; name of Rock Hill township changed from Highland. For total population of Wilton city, see Table 3. * CASS.—Kindred village incorporated from part of Normanna township, and North Fargo village from part of Fargo township, since 1910.

NUMBER AND DISTRIBUTION.

TABLE 2.—POPULATION OF COUNTIES BY MINOR CIVIL DIVISIONS: 1920, 1910, AND 1900—Continued.

[Counties showing no totals for 1910 or 1900 have been organized at some time between the censuses; counties showing totals but no comparative figures for minor civil divisions for 1910 or 1900 have been redistricted at some time between the censuses. For other changes in boundaries, etc., between 1910 and 1920, see footnotes; for those between 1800 and 1910, see Reports of the Thirteenth Census: 1910, Vol. III, Table 1, p. 323. For population of incorporated places, see Table 3.]

| MINOR CIVIL DIVISION. | 1920 | 1910 | 1900 | MINOR CIVIL DIVISION. | 1920 | 1910 | 1900 |
|--|---------------|---------------|---------------|--|--------------|--------------|------|
| Cavalier County | 15,555 | 15,659 | 12,580 | Divide County | 9,637 | 6,015 | |
| Alma township | 242 | 266 | 526 | Alexandria township ¹² (T. 161, R. 100) | 176 | 103 | |
| Banner township | 277 | 316 | 214 | Ambrose township | 249 | 50 | |
| Billings township | 285 | 188 | 318 | Ambrose city | 389 | 320 | |
| Bruce township | 369 | 277 | 111 | Blooming Prairie township | 252 | 170 | |
| Byron township | 213 | 275 | | Blooming Valley township | 227 | 178 | |
| Calio village ¹⁰ | 132 | | | Border township | 249 | 183 | |
| Cypress township | 232 | 173 | 532 | Burg township | 219 | 197 | |
| Dresden township | 645 | 572 | 170 | Clinton township ¹² (T. 162, R. 101) | 208 | 154 | |
| East township | 264 | 351 | 202 | Coalfield township | 461 | 208 | |
| East Alma township | 200 | 320 | 459 | Crosby city | 1,147 | 206 | |
| Elgin township | 317 | 331 | | Daneville township | 255 | 135 | |
| Fremont township | 469 | 541 | 572 | De Witt township ¹² (T. 163, R. 101, and frac. T. 164, R. 101) | 164 | 129 | |
| Glenida township | 455 | 358 | 132 | Elkhorn township ¹² (T. 163, R. 102, frac. T. 164, Rs. 102 and 103, and frac. T. 163, R. 103) | 230 | 146 | |
| Gordon township | 335 | 317 | 178 | Fertile Valley township ¹² (T. 160, Rs. 102 and 103) | 290 | 204 | |
| Grey township | 191 | 234 | 463 | Fillmore township | 231 | 190 | |
| Harvey township | 106 | 299 | | Fortuna village ¹² | 198 | | |
| Hay township | 310 | 624 | 221 | Frazier township | 228 | 175 | |
| Henderson township ¹⁰ | 294 | 386 | 703 | Frederick township ¹² (T. 160, R. 98) | 252 | 60 | |
| Hope township | 350 | 386 | 79 | Garnet township ¹² (T. 160, R. 99) | 185 | 124 | |
| Huron township | 235 | 248 | | Goose Neck township | 285 | 212 | |
| Langdon city | 1,228 | 1,214 | 1,188 | Hawkeye township | 229 | 237 | |
| Langdon township | 210 | 252 | 478 | Hayland township | 262 | 212 | |
| Linden township | 622 | 620 | 711 | Kermit village | 37 | 108 | |
| Loam township | 353 | 361 | 698 | Lincoln Valley township ¹² (T. 162, R. 100) | 195 | 100 | |
| Loma township | 345 | 308 | | Long Creek township | 243 | 174 | |
| Manilla township | 205 | 240 | | Mentor township | 221 | 175 | |
| Milton village | 393 | 410 | 384 | Noonan village | 376 | 163 | |
| Minto township | 228 | 209 | | Palmer township | 204 | 200 | |
| Montrose township | 470 | 405 | 762 | Plummer township | 150 | 155 | |
| Moscow township | 351 | 209 | 346 | Sioux Trail township | 185 | 169 | |
| Mount Carmel township | 475 | 500 | 889 | Smoky Butte township ¹² (T. 160, R. 100) | 157 | 94 | |
| Munch village ¹⁰ | 248 | | | Stone View township | 211 | 143 | |
| Nekoma township | 263 | 234 | | Troy township | 295 | 207 | |
| Nekoma village | 189 | 120 | | Twain Butte township | 276 | 205 | |
| Osage township | 691 | 803 | 977 | Upland township | 260 | 227 | |
| Oxford township | 204 | 215 | | Westby township ¹² (T. 162, R. 102, and frac. T. 162, R. 103) | 286 | 188 | |
| Osnabrock township | 309 | 266 | 304 | Writing Rock township ¹² (T. 161, R. 101) | 125 | 78 | |
| Osnabrock village | 310 | 253 | | | | | |
| Perry township | 223 | 206 | 317 | Dunn County | 8,828 | 5,302 | |
| Sarles village ¹⁰ (part of) | 333 | 322 | | Clay Butte township ¹² (T. 144, R. 94) | 199 | 128 | |
| Seivert township ¹⁰ | 279 | 309 | 113 | Decorah township ¹² (T. 145, R. 94) | 120 | 62 | |
| South Dresden township | 396 | 397 | 297 | Dodge village ¹² | 172 | | |
| Sterilo township | 370 | 362 | 98 | Dunn Center village ¹² | 247 | | |
| Trier township ¹⁰ | 243 | 361 | 138 | Halliday village ¹² | 289 | | |
| Waterloo township | 200 | 228 | 214 | Killdeer village ¹² | 512 | | |
| West Hope township | 321 | 348 | | Loring township ¹² (T. 144, R. 91) | 294 | 123 | |
| | | | | Richloam township ¹² (T. 145, R. 96) | 102 | 75 | |
| Dickey County | 10,499 | 9,839 | 6,061 | Verner village ¹² | 198 | | |
| Ada township | 244 | 239 | 232 | Township 141, range 01 (part of) | 150 | 123 | |
| Albertha township | 179 | 143 | | Township 141, range 02 (part of) | 143 | 138 | |
| Albion township | 209 | 100 | 127 | Township 141, range 03 (part of) | 147 | 181 | |
| Bear Creek township | 226 | 222 | 150 | Township 141, range 04 | 130 | 130 | |
| Clement township | 300 | 351 | 303 | Township 141, range 05 | 236 | 180 | |
| Elden township | 178 | 181 | 144 | Township 141, range 06 | 273 | 204 | |
| Ellendale city | 1,334 | 1,389 | 760 | Township 141, range 07 | 233 | 233 | |
| Ellendale township | 218 | 152 | 128 | Township 142, range 01 | 125 | 87 | |
| Elm township | 139 | 97 | 55 | Township 142, range 02 | 174 | 178 | |
| Forbes village | 293 | 221 | | Township 142, range 03 | 134 | 180 | |
| Fullerton village | 202 | 206 | | Township 142, range 04 | 188 | 126 | |
| German township ¹¹ | 243 | | | Township 142, range 05 | 156 | 85 | |
| Grand Valley township | 201 | 143 | | Township 142, range 06 | 169 | 71 | |
| Hamburg township ¹¹ | 216 | | | Township 142, range 07 | 170 | 161 | |
| Hudson township | 219 | 174 | 150 | Township 143, range 01 | 272 | 183 | |
| James River Valley township | 469 | 443 | 308 | Township 143, range 02 | 246 | 97 | |
| Kent township | 153 | 152 | 93 | Township 143, range 03 | 181 | 85 | |
| Kentner township | 171 | 201 | 128 | Township 143, range 04 | 166 | 160 | |
| Keystone township | 165 | 193 | 283 | Township 143, range 05 | 147 | 134 | |
| Lorraine township | 177 | 145 | | Township 143, range 06 | 73 | 66 | |
| Lovell township | 201 | 168 | 261 | Township 143, range 07 | 117 | 62 | |
| Ludden village | 132 | 109 | | Township 144, range 02 | 190 | 139 | |
| Maple township ¹¹ | 206 | | | Township 144, range 03 | 193 | 80 | |
| Merricourt township ¹¹ | 370 | 518 | 422 | Township 144, range 05 | 188 | 234 | |
| Merricourt village | 70 | 78 | | Township 144, range 06 | 116 | 50 | |
| Monango village | 231 | 238 | | Township 144, range 07 | 132 | 75 | |
| Oakes city | 1,637 | 1,499 | 668 | Township 145, range 01 | 269 | 127 | |
| Port Emma township | 212 | 155 | 115 | Township 145, range 02 ¹² | 206 | 122 | |
| Porter township ¹¹ | 261 | 378 | 254 | Township 145, range 03 | 233 | 90 | |
| Potsdam township ¹¹ | 155 | | | Township 145, range 05 ¹² | 68 | 164 | |
| Riverdale township | 195 | 195 | 90 | Township 145, range 07 | 254 | 89 | |
| Spring Valley township | 293 | 273 | 452 | Township 146, range 01 (part of) | 180 | 71 | |
| Valley township | 205 | 200 | 79 | | | | |
| Van Meter township | 163 | 152 | 120 | | | | |
| Whitestone township ¹¹ | 193 | 632 | 436 | | | | |
| Wright township | 220 | 202 | 140 | | | | |
| Yorktown township | 219 | 200 | 173 | | | | |

¹⁰ CAVALIER.—Calio village incorporated from parts of Seivert and Trier townships, and Munch village from part of Henderson township, since 1910. For total population of Sarles village, see Table 3.

¹¹ DICKEY.—Townships organized since 1910: German and Hamburg from parts of Whitestone; Maple from part of Porter; Potsdam from part of Merricourt.

¹² DIVIDE.—Alexandria, Clinton, De Witt, Elkhorn, Fertile Valley, Frederick, Garnet, Lincoln Valley, Smoky Butte, Westby, and Writing Rock townships organized from unorganized territory, and Fortuna village incorporated from part of De Witt township, since 1910.

¹³ DUNN.—For footnote, see following page.

TABLE 2.—POPULATION OF COUNTIES BY MINOR CIVIL DIVISIONS: 1920, 1910, AND 1900—Continued.

(Counties showing no totals for 1910 or 1900 have been organized at some time between the censuses; counties showing totals but no comparative figures for minor civil divisions for 1910 or 1900 have been redistricted at some time between the censuses. For other changes in boundaries, etc., between 1910 and 1920, see footnotes; for those between 1900 and 1910, see Reports of the Thirteenth Census: 1910, Vol. III, Table 1, p. 323. For population of incorporated places, see Table 3.)

Table with 8 columns: MINOR CIVIL DIVISION, 1920, 1910, 1900, MINOR CIVIL DIVISION, 1920, 1910, 1900. Rows include Dunn County (continued), Eddy County, Emmons County, Foster County (continued), Golden Valley County, and Grand Forks County. Totals for each county are provided at the end of each section.

* See headnote.
18 DUNN.—Clay Butte, Decorah, Loring, and Richloam townships organized from unorganized territory since 1910. Villages incorporated since 1910: Dodge from part of Loring township; Dunn Center from part of Decorah township; Halliday and Werner from parts of township 148, range 92; Killdeer from part of township 148, range 95. Fort Berthold Indian Reservation returned in 1920 as located in Dunn, McKenzie, and Mercer Counties, in 1910 as in McClain and Mercer Counties. Total population: 482 in 1920; 1,135 in 1910; 1,038 in 1900. Part of township 148, range 95, for which no population was reported at the census of 1920 and which was not returned at the censuses of 1910 and 1900, and part of township 147, range 93, for which no population was reported at the censuses of 1920 and 1910, are not shown in this table.
14 EDDY.—Total for 1900 includes population (212) of Anderson school township, taken to form Colvin and Freeborn townships between 1900 and 1910. Townships organized from school townships since 1910: Columbia and Tiffany from school townships of same names, respectively; Fay from Cherry Lake; Lake Washington from Washington. New Rockford city incorporated from part of New Rockford township since 1910.

15 FOSTER.—Total for 1900 includes population (1,088) of Carrington school township, taken to form Carrington city and Carrington township between 1900 and 1910. Part of Larrabee school township taken to form Dewey school township, and remainder organized as Larrabee township, since 1910. Haven township organized from Haven school township, and McKinley from McKinley school township, since 1910.
16 GOLDEN VALLEY.—Organized from part of Billings County in 1912. Sentinel Butte village incorporated from part of Sentinel township since 1910.
17 GRAND FORKS.—Total for 1900 includes population (87) of Harvey township, annexed to Ferry township between 1900 and 1910. Parts of Falconer and Grand Forks townships annexed to Grand Forks city since 1910. For total population of Reynolds city, see Table 3.

NUMBER AND DISTRIBUTION.

TABLE 2.—POPULATION OF COUNTIES BY MINOR CIVIL DIVISIONS: 1920, 1910, AND 1900—Continued.

[Counties showing no totals for 1910 or 1900 have been organized at some time between the censuses; counties showing totals but no comparative figures for minor civil divisions for 1910 or 1900 have been redistricted at some time between the censuses. For other changes in boundaries, etc., between 1910 and 1920, see footnotes; for those between 1900 and 1910, see Reports of the Thirteenth Census: 1910, Vol. III, Table 1, p. 323. For population of incorporated places, see Table 3.]

| MINOR CIVIL DIVISION. | 1920 | 1910 | 1900 | MINOR CIVIL DIVISION. | 1920 | 1910 | 1900 |
|---|-------|-------|-------|---|--------|--------|-------|
| Grant County ¹⁸ | 9,553 | | | Hettinger County—Continued. | | | |
| Antelope township (school) (T. 135, R. 89)..... | 280 | | | Clark township ¹⁹ (T. 136, R. 96)..... | 218 | 260 | |
| Brisbane township (T. 133, R. 86)..... | 217 | | | Farina township ¹⁹ (T. 134, R. 94)..... | 138 | 151 | |
| Carl township (T. 135, R. 86)..... | 176 | | | Havelock township ¹⁹ (T. 135, R. 96)..... | 213 | 101 | |
| Carson township ¹⁸ (T. 134, R. 87)..... | 246 | | | Indian Creek township ¹⁹ | 180 | 266 | |
| Carson village ¹⁸ | 277 | | | Kennedy township..... | 196 | 170 | |
| De La Barre township (school) (T. 133, R. 90)..... | 257 | | | Kern township ¹⁹ (T. 132, R. 93)..... | 91 | 100 | |
| Elgin city ¹⁸ | 429 | | | Kunze township..... | 267 | 145 | |
| Elm township (T. 134, R. 88)..... | 364 | | | Madison township..... | 215 | 290 | |
| Fisher township (T. 132, R. 88)..... | 135 | | | Merrill township ¹⁹ (T. 132, R. 92)..... | 124 | 163 | |
| Fleak township (school) (T. 133, R. 89)..... | 194 | | | Mott village ¹⁹ | 723 | | |
| Freda township (T. 133, R. 83)..... | 119 | | | New England township ¹⁹ | 194 | 272 | |
| German township (school) (T. 136, R. 89, and part of T. 136, R. 90)..... | 182 | | | New England city ¹⁹ | 613 | | |
| Harper township (school) (T. 136, R. 87)..... | 149 | | | Regent village ¹⁹ | 262 | | |
| Heart Butte township (school) (T. 137, R. 89)..... | 175 | | | Rifle township..... | 205 | 195 | |
| Heart River township (school) (T. 136, R. 88)..... | 178 | | | St. Croix township..... | 116 | 160 | |
| Henley township (school) (T. 133, R. 88)..... | 161 | | | Solon township ¹⁹ (T. 134, R. 91)..... | 225 | 174 | |
| Herz township (school) (T. 137, R. 88)..... | 172 | | | Strehlow township..... | 226 | 190 | |
| Hobson township (school) (T. 135, R. 88)..... | 193 | | | Tepee Butte township ¹⁹ (T. 134, R. 96)..... | 178 | 139 | |
| Howard township (T. 131, R. 88)..... | 181 | | | Wagendorf township ¹⁹ (T. 133, R. 96)..... | 222 | 177 | |
| Janesburg township (T. 132, R. 87)..... | 131 | | | Township 134, range 93 ¹⁹ | 156 | 541 | |
| Krutz township (T. 131, R. 90)..... | 142 | | | Township 135, range 91..... | 188 | 241 | |
| Landau township (school) (parts of Tps. 136 and 137, R. 90)..... | 151 | | | Township 135, range 92..... | 237 | 180 | |
| Lark township (T. 134, R. 85)..... | 186 | | | Township 136, range 91..... | 200 | 304 | |
| Leahy township (school) (T. 132, R. 85, and parts of Tps. 130 and 131, R. 85)..... | 299 | | | Township 136, range 92..... | 252 | 198 | |
| Leipzig township (school) (T. 135, R. 90)..... | 288 | | | | | | |
| Leith village ¹⁸ | 158 | | | Kidder County | 7,798 | 5,962 | 1,754 |
| Lincoln township (school) (T. 136, R. 86)..... | 142 | | | Allen township..... | 153 | 121 | 95 |
| Lock township (school) (part of T. 130, R. 89)..... | 73 | | | Atwood township ²⁰ | 159 | 110 | 7 |
| Lorin township (T. 132, R. 90)..... | 198 | | | Baker township ²⁰ | 173 | 131 | 18 |
| Melville township (T. 132, R. 89)..... | 193 | | | Barton township ²⁰ (school)..... | 72 | | |
| Minnie township ¹⁸ (T. 134, R. 89)..... | 319 | | | Belden township (school)..... | 167 | 129 | |
| New Leipzig village ¹⁸ | 378 | | | Buckeye township..... | 96 | 84 | 32 |
| Otter Creek township (T. 135, R. 85)..... | 126 | | | Chestina township (school)..... | 242 | 144 | 37 |
| Pretty Rock township (T. 131, R. 89)..... | 155 | | | Clear Lake township (school)..... | 188 | 156 | |
| Raleigh township (T. 133, R. 85)..... | 240 | | | Crystal Springs township ²⁰ | 241 | 216 | 120 |
| Schrader township (school) (part of T. 130, R. 90)..... | 89 | | | Dawson village ²⁰ | 293 | | |
| Schultz township (T. 130, R. 87; T. 131, Rs. 86 and 87; parts of T. 129, Rs. 86 and 87, and T. 130, R. 86)..... | 365 | | | Excelsior township..... | 147 | 132 | 1 |
| Shields township (parts of T. 131, R. 84, and T. 132, Rs. 83 and 84)..... | 357 | | | Fisher township (school)..... | 84 | 78 | 72 |
| Slovak township (school) (part of T. 137, R. 90)..... | 220 | | | Frettem township (school)..... | 131 | 121 | 18 |
| Sunny Slope township (school) (T. 135, R. 87)..... | 182 | | | German township (school)..... | 206 | 173 | 72 |
| Thain township (T. 134, R. 86)..... | 214 | | | Grant township (school)..... | 214 | 196 | |
| Three Butte township (T. 133, R. 84)..... | 111 | | | Haynes township..... | 117 | 141 | 21 |
| Two Mile township (T. 132, R. 86)..... | 119 | | | Horning township (school)..... | 218 | 153 | 38 |
| Valley View township ¹⁸ (T. 133, R. 87)..... | 201 | | | Kickapoo township (school)..... | 122 | 130 | 5 |
| Weekes township (school) (T. 136, R. 85)..... | 99 | | | Liberty township (school)..... | 123 | 125 | 43 |
| Weller township ¹⁸ (school) (T. 134, R. 90)..... | 270 | | | Malin township ²⁰ (school)..... | 177 | | |
| Wheeler township (parts of Tps. 129 and 130, R. 88)..... | 103 | | | Manning township..... | 202 | 241 | 53 |
| | | | | Merkel township ²⁰ (school)..... | 137 | 281 | 35 |
| Griggs County | 7,402 | 6,274 | 4,744 | Northwest township (school)..... | 140 | 147 | 10 |
| Aldie township..... | 245 | 181 | 204 | Norway township ²⁰ (school)..... | 150 | 212 | 28 |
| Ball Hill township..... | 276 | 266 | 244 | Pettibone township ²⁰ | 307 | 97 | 21 |
| Bartley township..... | 209 | 216 | 214 | Pleasant Hill township ²⁰ | 130 | 177 | 68 |
| Binford village..... | 393 | 275 | | Pleasant Hill township (school)..... | 87 | 89 | 4 |
| Broadview township..... | 331 | 190 | 194 | Quincy township ²⁰ (school)..... | 50 | 62 | 33 |
| Bryan township..... | 274 | 184 | 127 | Rexin township (school)..... | 212 | 195 | 164 |
| Clearfield township..... | 172 | 128 | 137 | Robinson township ²⁰ | 183 | 141 | 17 |
| Cooperstown city..... | 1,112 | 1,019 | 648 | Robinson township ²⁰ (school)..... | 57 | | |
| Cooperstown township..... | 297 | 283 | 226 | Sibley township ²⁰ | 116 | 279 | 235 |
| Dover township..... | 282 | 237 | 223 | Steele city..... | 550 | 500 | 185 |
| Greenfield township..... | 360 | 290 | 388 | Stewart township (school)..... | 128 | 103 | 14 |
| Hannaford village..... | 431 | 340 | | Tanner township..... | 146 | 149 | 7 |
| Helena township..... | 270 | 162 | 160 | Tappen township ²⁰ | 71 | 117 | 149 |
| Kingsley township..... | 226 | 161 | 78 | Tappen village ²⁰ | 182 | | |
| Lenora township..... | 201 | 231 | 181 | Tuttle township ²⁰ (school)..... | 187 | | |
| Mabel township..... | 365 | 208 | 220 | Tuttle village ²⁰ | 321 | | |
| Pilot Mound township..... | 293 | 261 | 196 | Union township (school)..... | 203 | 184 | 22 |
| Romnes township..... | 277 | 267 | 266 | Valley township (school)..... | 179 | 147 | 16 |
| Rosendal township..... | 211 | 216 | 93 | Vernon township (school)..... | 100 | 86 | 34 |
| Sverdrup township..... | 327 | 327 | 331 | Wallace township (school)..... | 136 | 136 | |
| Tyrol township..... | 353 | 371 | 228 | Weiser township ²⁰ | 142 | 166 | 10 |
| Washburn township..... | 267 | 268 | 250 | Williams township (school)..... | 120 | 113 | 6 |
| Willow township..... | 230 | 193 | 136 | Woodlawn township..... | 167 | 100 | 84 |
| | | | | | | | |
| Hettinger County | 7,685 | 6,587 | | La Moure County | 11,564 | 10,724 | 8,048 |
| Acme township ¹⁹ (T. 135, R. 93)..... | 189 | 155 | | Adrian township..... | 266 | 338 | 137 |
| Alden township..... | 154 | 218 | | Badger township..... | 232 | 232 | 91 |
| Ashby township ¹⁹ (T. 132, R. 94)..... | 115 | 126 | | Berlin village..... | 150 | 137 | |
| Baer township ¹⁹ (T. 132, R. 91)..... | 195 | 169 | | Black Loun township..... | 323 | 324 | 301 |
| Beery township..... | 214 | 281 | | Bluebird township..... | 233 | 160 | 107 |
| Black Butte township..... | 161 | 192 | | Dean township ²¹ | 187 | 175 | 95 |
| Brittlan township ¹⁹ (T. 133, R. 92)..... | 135 | 139 | | Dickey village..... | 190 | 137 | |
| Campbell township ¹⁹ (T. 136, R. 93)..... | 180 | 243 | | Edgeley city..... | 803 | 749 | 306 |
| Cannon Ball township ¹⁹ (T. 133, R. 91)..... | 301 | 232 | | Gladstone township..... | 357 | 356 | 202 |
| Castle Rock township ¹⁹ (T. 133, R. 93)..... | 222 | 169 | | | | | |
| Chilton township..... | 120 | 154 | | | | | |

¹⁸ GRANT.—Organized from part of Morton County in 1916. Villages incorporated since 1910: Carson from part of Carson township; Leith from part of Valley View township; New Leipzig from part of Weller school township. Elgin city incorporated as a city from Elgin village, which was incorporated from township 134, range 89 (now Minnie township), since 1910.

¹⁹ HETTINGER.—Acme, Ashby, Baer, Brittan, Campbell, Cannon Ball, Castle Rock, Clark, Farina, Havelock, Kern, Merrill, Solon, Tepee Butte, and Wagendorf townships organized from unorganized territory since 1910. Villages incorporated since 1910: Regent from part of Indian Creek township and Mott from part of township 134, range 93. New England city incorporated from part of New England township since 1910.

²⁰ KIDDER.—Townships organized from school townships since 1910: Atwood from Arlington; Crystal Springs from Crystal Springs; Pettibone from Lakeside; Robinson from Lincoln; and Weiser from Malcolm. Baker township organized from Baker school township and part of Pleasant Hill township. Tappen township returned as a school township in 1910. School townships organized from other school townships since 1910: Barton and Robinson from parts of Merkel; Malin from part of Quincy; and Tuttle from part of Norway. Villages incorporated since 1910: Dawson from part of Sibley township; Tappen from part of Tappen township; and Tuttle from part of Tuttle school township.

²¹ LA MOURE.—For footnote, see following page.

NUMBER AND DISTRIBUTION.

TABLE 2.—POPULATION OF COUNTIES BY MINOR CIVIL DIVISIONS: 1920, 1910, AND 1900—Continued.

Counties showing no totals for 1910 or 1900 have been organized at some time between the censuses; counties showing totals but no comparative figures for minor civil divisions for 1910 or 1900 have been redivided at some time between the censuses. For other changes in boundaries, etc., between 1910 and 1920, see footnotes; for those between 1900 and 1910, see Reports of the Thirteenth Census: 1910, Vol. III, Table 1, p. 323. For population of incorporated places, see Table 3.]

Table with 7 columns: MINOR CIVIL DIVISION., 1920, 1910, 1900, MINOR CIVIL DIVISION., 1920, 1910, 1900. Rows include McKenzie County, McLean County, Mercer County, and Morton County with various sub-precincts and townships.

McKENZIE.—East Fairview village incorporated from parts of Morrill and Nichols precincts, and Watford City village from parts of Rud and Schafer precincts, since 1910. Hawkeye and Keena precincts organized from parts of Berg and Charlson precincts since 1910. No population reported in 1910 for that part of Fort Berthold Indian Reservation in McKenzie County; for total population of reservation, see footnote, Dunn County.

McLEAN.—Totals for 1910 and 1900 include population (661 and 908, respectively) of part of Fort Berthold Indian Reservation, abolished and organized into civil townships since 1910. Total for 1900 also includes population (1,997) of territory taken to form Sheridan County between 1900 and 1910. Townships organized since 1910: Amundsville, Cremerville, and Loquemont from parts of Fort Berthold Indian Reservation; Blackwater, Horseshoe Valley, Montefoite, Nettlecreek, Poplar, and Snow from unorganized territory; Otis from part of Butte. Benedict village incorporated from part of Andrews township and Turtle Lake village from part of Lake Williams township since 1910. For total population of Wilton city, see Table 3. Townships 148, ranges 88 to 90; part of 148, range 91; 149, ranges 88 and 90; 150, range 90; and part of 150, range 91, returned as part of Fort Berthold Indian Reservation in 1910. Part of township 149, range 91, for which no population was reported at the census of 1920 and which was not returned at the censuses of 1910 and 1900, is not shown in this table. No population reported in 1910 for part of township 147, range 87.

MERCER.—Total for 1900 includes population (233) of territory (including part of Fort Berthold Indian Reservation) taken to form part of Dunn County between 1900 and 1910. Villages incorporated since 1910: Beulah from part of township 144, range 88; Golden Valley from part of township 144, range 90; Hazen from part of township 144, range 86; Stanton from parts of township 144, ranges 84 and 85; Zap from part of township 144, range 89. For total population of Fort Berthold Indian Reservation, see footnote, Dunn County.

MORTON.—For footnote, see following page.

POPULATION—NORTH DAKOTA.

TABLE 2.—POPULATION OF COUNTIES BY MINOR CIVIL DIVISIONS: 1920, 1910, AND 1900—Continued.

[Counties showing no totals for 1910 or 1900 have been organized at some time between the censuses; counties showing totals but no comparative figures for minor civil divisions for 1910 or 1900 have been redistricted at some time between the censuses. For other changes in boundaries, etc., between 1910 and 1920, see footnotes; for those between 1900 and 1910, see Reports of the Thirteenth Census: 1910, Vol. III, Table I, p. 323. For population of incorporated places, see Table 3.]

Table with 8 columns: MINOR CIVIL DIVISION., 1920, 1910, 1900, MINOR CIVIL DIVISION., 1920, 1910, 1900. Rows include Morton County (continued), Mountrail County (continued), Nelson County, and Oliver County. Totals for 1920, 1910, and 1900 are provided for each county.

28 MORTON.—Total for 1910 includes population (1,689) of part of Morton County, comprising Standing Rock Indian Reservation, taken to form Sioux County in 1914 and population (7,380) of part taken to form part of Grant County in 1916; and population (423) of part of Foust township, taken to form part of Grant County, and civil organization dissolved in remainder (township 138, ranges 88 and 89) since 1910. Total for 1900 includes population (3,279) of same territory (reservation returned independently of county in that year), and population (632) of Glenn Ullin township, taken to form parts of Classen and Foust townships between 1900 and 1910. Caribou township organized from part of Blue Grass township, and Copenhagen, Custer, De Vaul, Fair Valley, Flasher, Harmon, Judson, New Hope, and Sweet Briar townships organized from unorganized territory, since 1910. Flasher village incorporated from part of Flasher township since 1910. Population shown for Stevenson township for 1910 and 1900 includes population of that part of Stevenson township now in Grant County.

29 MOUNTRAIL.—Total for 1910 includes population (89) of part of Fort Berthold Indian Reservation, abolished and organized into civil townships since 1910. (See footnote, Dunn County.) Townships organized since 1910: Banner, Liberty, and Mountrail from parts of Fort Berthold Indian Reservation; Brookbank, Cottonwood, Debing, Knife River, Rat Lake, Redmond, Robinson, and Sidonia from unorganized territory; Model, Parshall, Plaza, and Van Hook from parts of Fort Berthold Indian Reservation and unorganized territory. Parshall city incorporated from part of township 152, range 93 since 1910. Villages incorporated since 1910: Sanish from part of township 152, range 93 (part of Fort Berthold Indian Reservation in 1910); Van Hook from part of township 152, range 91 (now Van Hook township); Wabek from part of Plaza township. Part of township 149, range 92, for which no population was reported at the census of 1920 and which was not returned at the censuses of 1910 and 1900, is not shown in this table.

30 NELSON.—Total for 1900 includes population (62) of part of township 152, range 88, annexed to Michigan City and Petersburg townships between 1900 and 1910. Pekin village incorporated from part of Osago township since 1910.

31 OLIVER.—Fort Clark village incorporated from part of township 143, range 83, since 1910.

NUMBER AND DISTRIBUTION.

TABLE 2.—POPULATION OF COUNTIES BY MINOR CIVIL DIVISIONS: 1920, 1910, AND 1900—Continued.

[Counties showing no totals for 1910 or 1900 have been organized at some time between the censuses; counties showing totals but no comparative figures for minor civil divisions for 1910 or 1900 have been redistricted at some time between the censuses. For other changes in boundaries, etc., between 1910 and 1920, see footnotes; for those between 1900 and 1910, see Reports of the Thirtieth Census: 1910, Vol. III, Table 1, p. 323. For population of incorporated places, see Table 3.]

| MINOR CIVIL DIVISION. | 1920 | 1910 | 1900 | MINOR CIVIL DIVISION. | 1920 | 1910 | 1900 |
|---|-------------------|-------|-------|---|-------|-------------------|-------|
| Pembina County | | | | Ramsey County—Continued. | | | |
| Advantage township..... | 457 | 354 | 482 | Irvine township (school)..... | 106 | 119 | 107 |
| Akra township..... | 457 | 405 | 584 | Lake township..... | 338 | 259 | 552 |
| Bathgate city..... | 352 | 328 | 641 | Lawton township ⁸⁴ | 268 | 406 | 150 |
| Bathgate township..... | 245 | 208 | 300 | Lawton village ⁸⁴ | 227 | ..... | ..... |
| Beaulieu township..... | 402 | 410 | 474 | Lillehoff township..... | 285 | 366 | 258 |
| Canton village..... | 101 | 116 | 98 | Minnowaukan township..... | 315 | 293 | 512 |
| Carlisle township..... | 452 | 421 | 600 | Morris township..... | 163 | 179 | 167 |
| Cavalier city..... | 819 | 652 | 671 | Newbre township..... | 221 | 197 | 108 |
| Cavalier township..... | 707 | 680 | 922 | Newland township..... | 303 | 207 | 231 |
| Crystal city..... | 349 | 370 | 385 | Noonan township..... | 214 | 215 | 206 |
| Crystaltownship..... | 389 | 385 | 461 | Northfield township ⁸⁴ | 224 | 341 | 74 |
| Drayton city..... | 637 | 587 | 688 | Norway township..... | 226 | 227 | 225 |
| Drayton township..... | 325 | 318 | 304 | Odessa township..... | 205 | 235 | 219 |
| Elora township..... | 243 | 237 | 313 | Ontario township..... | 315 | 205 | 233 |
| Felson township ⁸² | 352 | ..... | ..... | Overland township..... | 215 | 222 | 100 |
| Gardar township..... | 507 | 566 | 761 | Pleasant township..... | 166 | 204 | 180 |
| Hamilton township, including Hamilton village..... | 578 | 558 | 692 | Prospect township..... | 284 | 210 | 142 |
| Joffette township..... | 479 | 404 | 522 | Royal township..... | 283 | 249 | 145 |
| La Moure township..... | 367 | 331 | 288 | South Minnowaukan township..... | 186 | 148 | ..... |
| Lincoln township..... | 443 | 369 | 420 | Starkweather village..... | 302 | 246 | ..... |
| Lodona township..... | 272 | 208 | 342 | Stevens township..... | 243 | 282 | 457 |
| Midland township..... | 455 | 418 | 578 | Sullivan township..... | 101 | 121 | 163 |
| Nesche township, including Nesche village..... | 945 | 971 | 1,205 | Triumph township..... | 156 | 144 | 72 |
| Park township..... | 303 | 308 | 350 | Webster township..... | 305 | 334 | 225 |
| Pembina city..... | 802 | 717 | 929 | Ransom County | | | |
| Pembina township..... | 488 | 503 | 583 | Alceton township..... | 322 | 284 | 185 |
| St. Joseph township ⁸² | 1,144 | 1,144 | 1,160 | Alleghany township..... | 281 | 235 | 114 |
| St. Thomas city..... | 500 | 513 | 661 | Bulo township..... | 266 | 210 | 117 |
| St. Thomas township..... | 505 | 472 | 814 | Big Bend township..... | 309 | 277 | 180 |
| Thingvalla township..... | 632 | 722 | 752 | Casey township..... | 415 | 305 | 311 |
| Walhalla city..... | 634 | 592 | 377 | Coburn township..... | 145 | 126 | 107 |
| Walhalla township..... | 342 | 437 | 452 | Elliott township..... | 308 | 364 | 138 |
| Pierce County | | | | Elliot city..... | 1,919 | 1,540 | 636 |
| Antelope Lake township..... | 266 | 288 | 32 | Fort Ransom township..... | 616 | 674 | 402 |
| Barton township..... | 156 | 300 | 243 | Greene township..... | 238 | 221 | 215 |
| Barton village..... | 158 | 202 | ..... | Hanson township..... | 412 | 360 | 190 |
| Elling township..... | 288 | 262 | 2 | Island Park township..... | 351 | 276 | 163 |
| Elverum township..... | 341 | 228 | 32 | Liberty township..... | 361 | 270 | 278 |
| Girard township ⁸³ (T. 153, R. 73)..... | 140 | 178 | 24 | Lisbon city..... | 1,855 | 1,758 | 1,046 |
| Hurricane Lake township ⁸³ (school) (T. 157, R. 69)..... | 191 | 229 | 209 | Moore township..... | 322 | 310 | 287 |
| Jefferson township..... | 278 | 320 | 200 | Northland township..... | 243 | 347 | 336 |
| Meyer township ⁸³ (T. 156, R. 72)..... | 181 | 204 | 189 | Owego township..... | 381 | 293 | 213 |
| Ness township..... | 204 | 413 | 280 | Preston township..... | 329 | 359 | 304 |
| Reno Valley township..... | 283 | 325 | 142 | Roland township..... | 229 | 187 | 71 |
| Rosedale township..... | 169 | 128 | 42 | Rosemond township..... | 237 | 183 | 175 |
| Rugby city..... | 1,424 | 1,430 | 487 | Sandoun township..... | 337 | 241 | 88 |
| Rush Lake township ⁸³ (T. 157, R. 70)..... | 182 | 150 | 110 | Sheldon village..... | 321 | 358 | 318 |
| Tuscarora township..... | 320 | 350 | 154 | Shenford township..... | 471 | 418 | 388 |
| Union township ⁸³ (school) (T. 158, R. 69)..... | 233 | 201 | 181 | Springer township..... | 336 | 301 | 271 |
| White township..... | 276 | 263 | 165 | Sydney township..... | 270 | 209 | 142 |
| Wolford township..... | 433 | 475 | 50 | Tuller township..... | 350 | 236 | 167 |
| Township 151, range 72..... | 495 | 382 | 406 | South $\frac{1}{2}$ township 134, range 54..... | 107 | (⁸⁵) | 77 |
| Township 151, range 73..... | 313 | 289 | 199 | Renville County ⁸⁶..... | | | |
| Township 152, range 72 ⁸³ | 343 | 345 | 347 | Brandon township..... | 192 | 207 | ..... |
| Township 152, range 73..... | 179 | 133 | 55 | Callahan township ⁸⁶ | 181 | 312 | ..... |
| Township 154, range 73..... | 383 | 187 | 109 | Clay township..... | 197 | 187 | ..... |
| Township 154, range 74..... | 229 | 192 | 31 | Colquhoun township..... | 258 | 228 | ..... |
| Township 156, range 73..... | 207 | 207 | 157 | Eden Valley township..... | 208 | 317 | ..... |
| Township 157, range 73..... | ⁸⁴ 421 | 233 | 193 | Ensign township..... | 210 | 243 | ..... |
| Township 157, range 71..... | 146 | 205 | 40 | Fairbanks township..... | 442 | 521 | ..... |
| Township 157, range 72..... | 190 | 246 | 245 | Glennburn village..... | 228 | 268 | ..... |
| Township 157, range 74..... | 258 | 311 | 137 | Grano village ⁸⁶ | 112 | ..... | ..... |
| Township 158, range 71..... | 215 | 219 | 132 | Grassland township..... | 244 | 239 | ..... |
| Township 158, range 72..... | 167 | 196 | 36 | Grover township..... | 221 | 212 | ..... |
| Township 158, range 73..... | 332 | 269 | 147 | Hamerly township..... | 222 | 215 | ..... |
| Ramsey County | | | | Hamlet township..... | 260 | 227 | ..... |
| Bartlett township..... | 241 | 359 | 266 | Hurley township ⁸⁶ | 166 | 271 | ..... |
| Bartlett village..... | 98 | 120 | ..... | Ivanhoe township..... | 261 | 272 | ..... |
| Bergen township..... | 169 | 204 | 187 | Lookwood township..... | 158 | 198 | ..... |
| Brocket village..... | 240 | 186 | ..... | Lorraine village ⁸⁶ | 74 | ..... | ..... |
| Cato township ⁸⁴ | 158 | 153 | 62 | McKinney township..... | 318 | 329 | ..... |
| Churches Ferry village..... | 353 | 457 | 204 | Mohall city..... | 651 | 493 | ..... |
| Cleveland township..... | 156 | 185 | 151 | Muskego township..... | 299 | 286 | ..... |
| Coulee township..... | 381 | 419 | 300 | Plain township..... | 265 | 292 | ..... |
| Crary village..... | 307 | 279 | ..... | Prescott township..... | 167 | 251 | ..... |
| De Groat township..... | 194 | 218 | 195 | Prosperity township..... | 288 | 280 | ..... |
| Devils Lake city..... | 5,140 | 5,157 | 1,729 | Rockford township..... | 320 | 531 | ..... |
| Dry Lake township..... | 195 | 234 | 221 | Roosevelt township..... | 256 | 279 | ..... |
| Edmore village..... | 501 | 344 | ..... | Sherwood city..... | 423 | 328 | ..... |
| Fanchoer township..... | 268 | 296 | 225 | Stafford township..... | 331 | 349 | ..... |
| Freshwater township..... | 195 | 235 | 211 | Tolley village..... | 325 | 250 | ..... |
| Grand Harbor township..... | 463 | 454 | 515 | Van Buren township..... | 224 | 266 | ..... |
| Hampden village ⁸⁴ | 199 | ..... | ..... | White Ash township..... | 206 | 189 | ..... |
| Highland township..... | 258 | 221 | 174 | ⁸⁴ RAMSEY.—Cato township organized from Cato school township since 1910. | | | |
| Hope township..... | 215 | 160 | 167 | Hampden village incorporated from part of Northfield township, and Lawton village from part of Lawton township, since 1910. | | | |
| ⁸² PEMBINA.—Felson township organized from part of St. Joseph township since 1910. | | | | ⁸⁵ RANSOM.—No population reported in 1910 for south $\frac{1}{2}$ township 134, range 54. | | | |
| ⁸³ PIERCE.—Girard, Meyer, and Rush Lake townships, and Hurricane Lake and Union school townships organized from unorganized territory since 1910. Township 152, range 72, returned as Alexander township in 1910; civil organization dissolved since 1910. Townships 156 and 157, range 73, not returned separately in 1920. | | | | ⁸⁶ RENVILLE.—Townships organized from school townships of same names since 1910. Grano village incorporated from part of Callahan township, and Lorraine village from part of Hurley township, since 1910. | | | |

POPULATION—NORTH DAKOTA.

TABLE 2.—POPULATION OF COUNTIES BY MINOR CIVIL DIVISIONS: 1920, 1910, AND 1900—Continued.

[Counties showing no totals for 1910 or 1900 have been organized at some time between the censuses; counties showing totals but no comparative figures for minor civil divisions for 1910 or 1900 have been redistricted at some time between the censuses. For other changes in boundaries, etc., between 1910 and 1920, see footnotes; for those between 1900 and 1910, see Reports of the Thirtieth Census: 1910, Vol. III, Table 1, p. 223. For population of incorporated places, see Table 3.]

| MINOR CIVIL DIVISION. | 1920 | 1910 | 1900 | MINOR CIVIL DIVISION. | 1920 | 1910 | 1900 |
|---|--------|--------|----------------------|---|-------|----------------------|-------|
| Richland County | 20,887 | 19,659 | 17,387 | Sargent County—Continued. | | | |
| Abercrombie township..... | 682 | 678 | 1,002 | Harlem township..... | 267 | 230 | 140 |
| Abercrombie village..... | 266 | 299 | 267 | Havana village..... | 319 | 387 | ..... |
| Antelope township..... | 374 | 293 | 168 | Herman township..... | 309 | 322 | 285 |
| Barney township..... | 355 | 433 | 287 | Jackson township..... | 204 | 237 | 170 |
| Barrie township..... | 362 | 349 | 374 | Kingston township..... | 487 | 504 | 228 |
| Belford township..... | 393 | 315 | 346 | Marboe township..... | 283 | 272 | 222 |
| Brandenburg township..... | 352 | 369 | 552 | Milnor town..... | 680 | 641 | 322 |
| Brightwood township..... | 381 | 363 | 324 | Milnor township..... | 258 | 256 | 195 |
| Center township..... | 373 | 359 | 383 | Ransom township..... | 384 | 276 | 291 |
| Colfax township..... | 637 | 580 | 653 | Rutland township..... | 239 | 204 | 228 |
| Danton township..... | 319 | 263 | 317 | Rutland village..... | 291 | 224 | ..... |
| De Villo township..... | 377 | 340 | 283 | Sargent township..... | 297 | 256 | 318 |
| Dexter township..... | 302 | 329 | 288 | Shuman township..... | 356 | 342 | 338 |
| Duer township..... | 597 | 694 | 615 | Southwest township..... | 161 | 112 | 74 |
| Dwight township ⁸⁷ | 408 | 584 | 623 | Taylor township..... | 204 | 210 | 167 |
| Dwight village ⁸⁷ | 139 | ..... | ..... | Tewankon township..... | 422 | 376 | 271 |
| Eagle township..... | 744 | 723 | 791 | Verner township..... | 231 | 251 | 216 |
| Elma township..... | 349 | 375 | 247 | Vivian township..... | 438 | 396 | 261 |
| Fairmount township..... | 322 | 320 | 439 | Weber township..... | 267 | 261 | 402 |
| Fairmount village..... | 706 | 387 | 284 | Whitstone Hill township..... | 451 | 403 | 204 |
| Freeman township..... | 231 | 165 | 171 | Willey township..... | 265 | 239 | 114 |
| Garborg township..... | 251 | 277 | 293 | | | | |
| Grant township..... | 334 | 270 | 373 | Sheridan County | 7,985 | 8 ⁰ 8,103 | ..... |
| Great Bend village..... | 142 | 191 | ..... | Berlin township (school)..... | 266 | 292 | ..... |
| Greendale township..... | 526 | 355 | 387 | Boone township (school)..... | 235 | 258 | ..... |
| Hankinson city..... | 1,477 | 1,503 | 713 | Cransville township (school)..... | 314 | 329 | ..... |
| Holendale township..... | 221 | 208 | 229 | Denhoff township..... | 323 | 332 | ..... |
| Homestead township..... | 222 | 159 | 187 | Edgemont township..... | 148 | 153 | ..... |
| Ibsen township..... | 276 | 258 | 268 | Fairview township (school)..... | 196 | 273 | ..... |
| La Mars township..... | 344 | 287 | 231 | Georgetown township ⁸⁹ (school)..... | 290 | 307 | ..... |
| Liberty Grove township..... | 309 | 330 | 327 | Goodrich township (school)..... | 280 | 280 | ..... |
| Liberty Grove city..... | 1,665 | 1,019 | 585 | Goodrich village..... | 476 | 410 | ..... |
| Mooreton township ⁸⁷ | 230 | 367 | 344 | Harris township ⁸⁹ | 258 | 286 | ..... |
| Mooreton village ⁸⁷ | 128 | ..... | ..... | Helman township (school)..... | 141 | 181 | ..... |
| Moran township..... | 334 | 386 | 312 | Highland township ⁸⁹ (T. 149, R. 77)..... | 237 | 206 | ..... |
| Nansen township..... | 259 | 259 | 228 | Holmes township ⁸⁹ | 156 | 185 | ..... |
| Shoyenne township..... | 179 | 181 | 209 | Johns Lake township..... | 178 | 134 | ..... |
| Summit township..... | 504 | 476 | 612 | Lamont township..... | 237 | 202 | ..... |
| Viking township..... | 149 | 135 | 165 | Lincoln township (school)..... | 378 | 392 | ..... |
| Wahpeton city..... | 3,069 | 2,487 | 2,228 | McCusky township ⁸⁹ | 138 | 170 | ..... |
| Walcott township..... | 635 | 1,055 | 1,008 | McCusky city..... | 646 | 517 | ..... |
| Waldo township..... | 252 | 221 | 171 | Martin township (school)..... | 404 | 566 | ..... |
| West End township..... | 158 | 128 | 127 | March township (school)..... | 224 | 215 | ..... |
| Wynndmere township..... | 293 | 254 | 244 | Martz township ⁸⁹ (school)..... | 281 | 281 | ..... |
| Wynndmere village..... | 570 | 430 | ..... | Mountain City township ⁸⁹ | 247 | ..... | ..... |
| | | | | New Germantown township (school)..... | 301 | 310 | ..... |
| Rolette County | 10,061 | 9,558 | 8 ⁰ 7,995 | Pickard township ⁸⁹ | 71 | 85 | ..... |
| Baxter township ⁸⁸ | 337 | 451 | 700 | Prophets township ⁸⁹ | 185 | ..... | ..... |
| Currie township (school)..... | 177 | 151 | 133 | Rosenfield township (school)..... | 307 | 326 | ..... |
| Dunseith city..... | 374 | 478 | ..... | Schiller township (school)..... | 348 | 325 | ..... |
| Ellsworth township (school)..... | 226 | 226 | 147 | Sperry township ⁸⁸ | 143 | 213 | ..... |
| Fairview township..... | 213 | 242 | 314 | Strassburg township ⁸⁸ | 275 | 305 | ..... |
| Finnegan township ⁸⁸ | 222 | 253 | 146 | Whitaker township ⁸⁹ (school)..... | 161 | 181 | ..... |
| Gilbert township..... | 237 | 214 | 256 | | | | |
| Hillside township (school)..... | 414 | 198 | ..... | Sioux County ⁹⁰ | 3,308 | ..... | ..... |
| Holmes township ⁸⁸ | 330 | 172 | ..... | Menz township (T. 129, R. 90, and part of T. 130, R. 90)..... | 148 | ..... | ..... |
| Hutchinson township..... | 434 | 295 | 67 | Selfridge village ⁹⁰ | 153 | ..... | ..... |
| Island Lake township ⁸⁸ | 190 | 188 | 163 | School district No. 1 (T. 129, Rs. 87 and 88, and parts of Tps. 129 and 130, R. 89)..... | 282 | ..... | ..... |
| Kohlmeier township..... | 225 | 269 | 167 | School district No. 2 (T. 129, Rs. 84, 85, and 86; T. 130, R. 84; and parts of T. 130, Rs. 85 and 86, and T. 131, R. 85)..... | 344 | ..... | ..... |
| Leonard township ⁸⁸ | 246 | 301 | 105 | School district No. 3 (T. 131, R. 83; T. 132, Rs. 80, 81, and 82; T. 133, Rs. 80 and 81; and parts of T. 131, R. 84; T. 132, Rs. 79 and 83; T. 133, Rs. 79 and 82; and T. 134, Rs. 79, 80, and 81)..... | 1,124 | ..... | ..... |
| Maryville township..... | 216 | 217 | 207 | School district No. 4 ⁹⁰ (T. 129, Rs. 80, 81, 82, and 83; T. 130, Rs. 81, 82, and 83; T. 131, R. 82, and parts of T. 129, R. 79; T. 130, Rs. 79 and 80; and T. 131, Rs. 80 and 81)..... | 1,257 | ..... | ..... |
| Mount Pleasant township..... | 248 | 276 | 292 | | | | |
| Mylo village..... | 140 | 98 | ..... | Slope County ⁹¹ | 4,940 | ..... | ..... |
| Oxford township (school)..... | 283 | 302 | 205 | Amland village ⁹¹ | 145 | ..... | ..... |
| Pleasant Valley township (school)..... | 197 | 291 | 236 | Carroll township (T. 134, R. 98)..... | 196 | ..... | ..... |
| Rices township..... | 259 | 301 | 172 | Cash township (T. 133, R. 102)..... | 146 | ..... | ..... |
| Rolette village..... | 409 | 408 | ..... | Cedar Creek township (T. 133, R. 98)..... | 134 | ..... | ..... |
| Rolla city..... | 675 | 587 | 400 | Chalky Butte township (T. 134, R. 101)..... | 74 | ..... | ..... |
| Russell township (school)..... | 211 | 224 | 163 | Connor township..... | 148 | ..... | ..... |
| St. John village..... | 400 | 424 | ..... | Crawford township (T. 133, R. 104)..... | 82 | ..... | ..... |
| Shell Valley township ⁸⁸ | 237 | 262 | 289 | Deep Creek township (T. 133, R. 103)..... | 81 | ..... | ..... |
| South Valley township ⁸⁸ | 176 | 227 | 123 | Dovre township..... | 194 | ..... | ..... |
| Thorne village..... | 78 | 105 | ..... |  |  |  |  |
| Union township (school)..... | 188 | 187 | 320 | | | | |
| Willow Lake township ⁸⁸ | 401 | 313 | ..... |  |  |  |  |
| Wolf Creek township (school)..... | 215 | 296 | 179 | | | | |
| Purtle Mountain Indian Reservation..... | 2,043 | 1,002 | 2,393 | | | | |
| | | | | | | | |
| Sargent County | 9,055 | 9,202 | 6,039 | | | | |
| Bowen township..... | 246 | 276 | 203 | | | | |
| Erampton township..... | 316 | 297 | 162 | | | | |
| Cayuga village..... | 182 | 175 | ..... |  |  |  |  |
| Cogswell village..... | 445 | 418 | ..... |  |  |  |  |
| Denver township..... | 208 | 255 | 139 | | | | |
| Dunbar township..... | 327 | 303 | 218 | | | | |
| Forman town..... | 402 | 352 | 257 | | | | |
| Forman township..... | 238 | 212 | 106 | | | | |
| Halt township..... | 478 | 465 | 408 | | | | |

⁸⁷ RICHLAND.—Dwight village incorporated from part of Dwight township, and Mooreton village from part of Mooreton township, since 1910.

⁸⁸ ROLETTE.—Total for 1900 includes population (750) of Dunseith school township, taken to form Carpenter, Hillside, and Mountain school townships between 1900 and 1910. Townships organized from school townships since 1910: Baxter from Northern and St. John; Finnegan from Dewey; Holmes from Carpenter; Island Lake from Island Lake and Scotch Block; Shell Valley from Brown; Willow Lake from Mountain; and Leonard and South Valley from school townships of same names.

⁸⁹ SHERIDAN.—Total for 1910 includes population of Mountain City school township (417), taken to form Mountain City and Prophets townships since 1910. Other townships organized from school townships since 1910: Harris from Herr; Sperry from White; Holmes, McCusky, Pickard, and Strassburg from school townships of same names, respectively. Other changes since 1910: Highland township organized from unorganized territory; civil organization of Georgetown school township dissolved; name of Martz township changed from Saxon and name of Whitaker township from Horse Lake.

⁹⁰ SIOUX.—Organized from part of Morton County, comprising Standing Rock Indian Reservation, in 1914. Selfridge village incorporated from part of township 130, range 82, since 1910.

⁹¹ SLOPE.—For footnote, see following page.

TABLE 2.—POPULATION OF COUNTIES BY MINOR CIVIL DIVISIONS: 1920, 1910, AND 1900—Continued.

[Counties showing no totals for 1910 or 1900 have been organized at some time between the censuses; counties showing totals but no comparative figures for minor civil divisions for 1910 or 1900 have been redistricted at some time between the censuses. For other changes in boundaries, etc., between 1910 and 1920, see footnotes; for those between 1900 and 1910, see Reports of the Thirteenth Census: 1910, Vol. III, Table 1, p. 323. For population of incorporated places, see Table 8.]

| MINOR CIVIL DIVISION. | 1920 | 1910 | 1900 | MINOR CIVIL DIVISION. | 1920 | 1910 | 1900 |
|---|---------------|---------------|---------------|---|---------------|---------------|---------------|
| Slope County—Continued. | | | | Steele County—Continued. | | | |
| E. Six township (T. 136, R. 98) | 220 | | | Hugo township | 195 | 179 | 113 |
| Harper township (T. 134, R. 108) | 101 | | | Luverne village | 225 | | |
| Hughes township (T. 133, R. 105) | 7 | | | Moltose township | 323 | 317 | 150 |
| Hume township (T. 134, R. 99) | 142 | | | Newburg township | 451 | 522 | 554 |
| Independent township (T. 134, R. 104) | 113 | | | Primrose township | 318 | 350 | 337 |
| Marmarth city | 1,318 | | | Riverson township | 201 | 221 | 175 |
| Mineral Springs township | 147 | | | Sharon township | 217 | 277 | 334 |
| Moord township (T. 135, R. 99) | 132 | | | Sharon village | 362 | 504 | |
| Peaceful Valley township | 119 | | | Sherbrooke township | 217 | 303 | 250 |
| Rainy Butte township (T. 135, R. 98) | 198 | | | Westfield township | 331 | 320 | 292 |
| Richland Center township (T. 135, R. 103) | 97 | | | Willow Lake township | 252 | 250 | 173 |
| Sand Creek township ⁴¹ (T. 135, Rs. 101 and 102) | 221 | | | | | | |
| Sheets township (T. 133, R. 101) | 112 | | | Stutsman County | 24,575 | 18,189 | 49,143 |
| Slope Center township (T. 134, R. 102) | 82 | | | Alexander township ⁴⁴ (T. 137, R. 66) | 200 | 148 | |
| Sunshine township (T. 135, R. 104) | 58 | | | Ashland township | 280 | 249 | |
| Uniquet township (T. 136, R. 101) | 36 | | | Bloom township | 214 | 192 | |
| White Laketownship | 118 | | | Bloomenfield township ⁴⁴ (T. 138, R. 65) | 216 | 158 | |
| Woodberry township | 164 | | | Buchanan township | 308 | 190 | |
| Township 133, range 106 | 20 | | | Chicago township | 195 | 162 | |
| Township 134, range 105 | 66 | | | Cleveland village ⁴⁴ | 341 | | |
| Township 135, range 105 | 35 | | | Conklin township ⁴⁴ (T. 144, R. 68) | 236 | 224 | |
| Township 135, range 106 | 71 | | | Corinna township | 303 | 200 | |
| Township 136, range 102 | 53 | | | Corwin township | 230 | 137 | |
| Township 136, range 103 | 34 | | | Courtenay township | 204 | 215 | |
| Township 136, range 104 | 67 | | | Courtenay village | 430 | 539 | |
| | | | | Cusator township | 147 | 81 | |
| Stark County | 13,542 | 12,504 | 42,702 | Deer Lake township | 162 | 168 | |
| Ash Coulee township ⁴² (T. 139, R. 97) | 179 | 157 | 63 | Durham township | 273 | 259 | |
| Belfield village ⁴² | 525 | | | Edmunds township | 248 | 223 | |
| Dickinson city | 4,122 | 3,078 | 2,076 | Eldridge township | 240 | 161 | |
| Farmers township ⁴² (T. 138, R. 94) | 252 | 259 | 63 | Flint township | 230 | 180 | |
| Farmers Valley township ⁴² (T. 140, R. 91, and part of T. 141, R. 91) | 231 | 200 | 128 | Gerber township ⁴⁴ (T. 143, R. 69) | 146 | 150 | |
| Gaylord township ⁴² (T. 138, R. 99) | 114 | 126 | | Glacier township | 191 | 147 | |
| Grand Meadow township ⁴² (T. 137, R. 99) | 144 | 214 | 41 | Gray township ⁴⁴ (T. 142, R. 62) | 185 | 207 | |
| Grand Vale township ⁴² (Tps. 139 and 140, R. 93, T. 140, R. 94, and part of T. 141, R. 93) | 610 | 777 | 486 | Griffin township | 203 | 278 | |
| Green River township ⁴² (T. 140, R. 96) | 245 | 260 | 205 | Hidden township ⁴⁴ (T. 141, R. 65) | 172 | 101 | |
| Heart River township ⁴² (T. 139, R. 94) | 385 | 288 | 187 | Homer township | 1,590 | 935 | |
| Rader township | 169 | 147 | 109 | Isoco township | 235 | 164 | |
| Richardton village | 626 | 647 | | Jamstown city | 6,627 | 4,368 | |
| Simpson township ⁴² (T. 137, R. 98) | 300 | 219 | | Jim River Valley township ⁴⁴ (T. 142, R. 64) | 104 | 100 | |
| South Heart township ⁴² (T. 139, R. 98) | 233 | 225 | 36 | Kensal township | 210 | 197 | |
| Taylor village ⁴² | 285 | | | Kensal village | 415 | 456 | |
| Township 137, range 91 | 214 | 209 | 159 | Lenton township ⁴⁴ (T. 138, R. 65) | 131 | 70 | |
| Township 137, range 92 | 210 | 249 | 132 | Lippert township | 185 | 119 | |
| Township 137, range 93 | 245 | 267 | 46 | Lowery township ⁴⁴ (T. 144, R. 69) | 282 | 249 | |
| Township 137, range 94 | 314 | 210 | 148 | Lyon township | 174 | 108 | |
| Township 137, range 95 | 234 | 299 | 58 | Manns township | 250 | 168 | |
| Township 137, range 96 | 322 | 346 | 69 | Marston Moor township | 125 | 147 | |
| Township 137, range 97 | 289 | 207 | 48 | Medina village | 415 | 343 | |
| Township 138, range 91 | 212 | 218 | 234 | Midway township | 179 | 126 | |
| Township 138, range 92 | 179 | 189 | 209 | Montpelier township ⁴⁴ | 199 | 257 | |
| Township 138, range 93 | 163 | 188 | 82 | Montpelier village ⁴⁴ | 186 | | |
| Township 138, range 96 | 255 | 246 | 60 | Newbury township | 246 | 173 | |
| Township 138, range 97 | 281 | 196 | 20 | Nogosok township | 202 | 231 | |
| Township 138, range 98 | 145 | 157 | 12 | Paris township | 266 | 155 | |
| Township 139, range 91 | 211 | 245 | 211 | Peterson township ⁴⁴ (T. 140, R. 69) | 162 | 165 | |
| Township 139, range 92 | 347 | 199 | 385 | Pingree township ⁴⁴ | 165 | 334 | |
| Township 139, range 93 | 236 | 269 | 66 | Pingree village ⁴⁴ | 286 | | |
| Township 139, range 96 | 123 | 133 | 81 | Pipestem Valley township | 196 | 164 | |
| Township 139, range 99 ⁴³ | 102 | 491 | 48 | Plainview township | 115 | 116 | |
| Township 140, range 92 | 115 | 158 | 125 | Rose township | 253 | 170 | |
| Township 140, range 95 | 137 | 159 | 58 | Round Top township ⁴⁴ (T. 142, R. 66) | 126 | 98 | |
| Township 140, range 97 | 232 | 232 | 237 | St. Paul township | 259 | 187 | |
| Township 140, range 98 | 217 | 186 | 92 | Severn township ⁴⁴ (T. 137, R. 64) | 271 | 172 | |
| Township 140, range 99 | 197 | 200 | 65 | Sharlow township | 161 | 166 | |
| Township 141, range 92 (part of) | 80 | 50 | | Sinclair township | 175 | 208 | |
| | | | | Spiritwood township | 330 | 264 | |
| Steele County | 7,401 | 7,616 | 5,888 | Stirton township ⁴⁴ | 168 | 190 | |
| Beaver Creek township | 340 | 352 | 334 | Streeter township ⁴⁴ (T. 137, R. 69) | 277 | 437 | |
| Broadlawn township | 244 | 320 | 285 | Streeter village ⁴⁴ | 640 | | |
| Carpenter township | 231 | 200 | 155 | Strong township ⁴⁴ (T. 142, R. 68) | 205 | 205 | |
| Colgate township | 259 | 329 | 170 | Sydney township ⁴⁴ (T. 138, R. 64) | 200 | 135 | |
| Easton township | 204 | 220 | 176 | Valley Spring township | 277 | 218 | |
| Ebdendale township | 265 | 259 | 245 | Wadsworth township ⁴⁴ (T. 143, R. 68) | 229 | 169 | |
| Enger township | 374 | 379 | 450 | Walters township | 151 | 135 | |
| Finley township | 275 | 267 | 359 | Weld township ⁴⁴ | 253 | 315 | |
| Finley village | 599 | 516 | | Windsor township | 249 | 112 | |
| Franklin township | 303 | 252 | 255 | Winfield township ⁴⁴ (T. 139, R. 62) | 231 | 187 | |
| Golden Lake township | 357 | 328 | 289 | Woodbury township ⁴⁴ (T. 139, R. 61) | 183 | 191 | |
| Greenview township | 213 | 242 | 150 | Woodworth village ⁴⁴ | 267 | | |
| Hope city | 699 | 609 | 606 | Ypsilanti township | 280 | 241 | |
| | | | | Township 137, range 68 | 190 | 252 | |
| | | | | Township 139, range 68 | 194 | 93 | |
| | | | | Township 141, range 63 | 223 | 165 | |
| | | | | Township 141, range 69 | 145 | 120 | |
| | | | | Township 143, range 67 | 127 | 143 | |

⁴¹ STONE.—Organized from part of Billings County in 1915. Amidon village incorporated from part of Sand Creek township since 1910. No population reported in 1920 for township 134, range 106.

⁴² STARK.—Total for 1900 includes population (1,343) of territory taken to form Adams, Hettinger, and parts of Dunn and McKenzie Counties between 1900 and 1910, and population (239) of township 141, ranges 91, 92, and 93, not returned separately in 1900 and returned as located in Dunn and Stark Counties in 1910. Ash Coulee, Farmers, Farmers Valley, Gaylord, Grand Meadow, Grand Vale, Green River, Heart River, Simpson, and South Heart townships organized from unorganized territory since 1910. Belfield village incorporated from part of township 139, range 99, and Taylor village from part of township 140, range 93 (now part of Grand Vale township), since 1910.

⁴³ STEELE.—Luverne village incorporated from part of Willow Lake township since 1910.

⁴⁴ STUTSMAN.—County returned by school townships in 1900. Alexander, Bloomenfield, Conklin, Gerber, Gray, Hidden, Jim River Valley, Lenton, Lowery, Peterson, Severn, Streeter, Strong, Sydney, Wadsworth, and Woodbury townships organized from unorganized territory since 1910. Villages incorporated since 1910: Cleveland from parts of Stirton and Weld townships; Montpelier from part of Montpelier township; Pingree from part of Pingree township; Streeter from part of township 137, range 69 (now Streeter township); and Woodworth from part of Strong township. Name of Winfield township changed from Casson, and of Round Top township from Denny, since 1910.

NUMBER AND DISTRIBUTION.

TABLE 2.—POPULATION OF COUNTIES BY MINOR CIVIL DIVISIONS: 1920, 1910, AND 1900—Continued.

[Counties showing no totals for 1910 or 1900 have been organized at some time between the censuses; counties showing totals but no comparative figures for minor civil divisions for 1910 or 1900 have been redistricted at some time between the censuses. For other changes in boundaries, etc., between 1910 and 1920, see footnotes; for those between 1900 and 1910, see Reports of the Thirteenth Census: 1910, Vol. III, Table 1, p. 323. For population of incorporated places, see Table 3.]

| MINOR CIVIL DIVISION. | 1920 | 1910 | 1900 | MINOR CIVIL DIVISION. | 1920 | 1910 | 1900 |
|---|---------------|---------------|---------------|--|-------|-------|------|
| Wells County | 12,957 | 11,814 | 8,310 | Williams County—Continued. | | | |
| Berlin township ⁴⁹ | 266 | 296 | 206 | Dry Fork township..... | 168 | 191 | |
| Blondeau township..... | 241 | 211 | 54 | Dublin township..... | 167 | 144 | |
| Bowdon village..... | 306 | 302 | | East Fork township..... | 156 | 176 | |
| Bremen township ⁴⁹ | 335 | 220 | 222 | Ellisville township..... | 266 | 178 | |
| Bull Moose township ⁴⁹ | 401 | 274 | 18 | Epping village ⁶⁰ | 116 | | |
| Cathay township ⁴⁹ | 225 | 195 | 222 | Equality township..... | 240 | 245 | |
| Cathay village..... | 185 | 225 | | Farmvale township..... | 200 | 196 | |
| Chaseley township ⁴⁹ | 379 | 255 | 63 | Golden Valley township..... | 220 | 236 | |
| Cottonwood township (school)..... | 201 | 160 | 142 | Good Luck township ⁶⁰ (T. 158, R. 102)..... | 239 | 197 | |
| Crystal Lake township ⁴⁹ | 168 | 142 | 92 | Grenora city ⁶⁰ | 358 | | |
| Delger township..... | 257 | 234 | 263 | Grenora township ⁶⁰ (frac. T. 159, R. 103)..... | 98 | 59 | |
| Fairville township ⁴⁹ | 253 | 243 | 214 | Hardscrabble township ⁶⁰ (T. 153, R. 103; frac. T. 153, R. 104)..... | 143 | 188 | |
| Fessenden city..... | 781 | 713 | | Hazel township ⁶⁰ | 273 | 222 | |
| Forward township..... | 171 | 322 | 299 | Hebron township..... | 260 | 284 | |
| Fram township..... | 442 | 468 | 209 | Judson township..... | 132 | 245 | |
| Germantown township ⁴⁹ | 237 | 254 | 240 | Lindahl township..... | 229 | 231 | |
| Haaland township ⁴⁹ | 229 | 227 | 348 | Marshall township..... | 228 | 191 | |
| Hamburg township ⁴⁹ | 236 | 278 | 282 | Missouri Ridge township..... | 145 | 213 | |
| Harvey city..... | 1,580 | 1,443 | | Mont township..... | 166 | 196 | |
| Hawks Nest township ⁴⁹ | 197 | 241 | 105 | New Home township..... | 243 | 96 | |
| Helmdal township..... | 436 | 306 | 239 | Oliver township..... | 171 | 86 | |
| Highland township (school)..... | 191 | 216 | 233 | Orthell township..... | 185 | 218 | |
| Hillsdale township ⁴⁹ | 229 | 229 | 200 | Pherrin township..... | 153 | 222 | |
| Johnson township ⁴⁹ | 220 | 227 | 136 | Pleasant Valley township..... | 234 | 300 | |
| Lynn township ⁴⁹ | 174 | 110 | 13 | Rainbow township..... | 213 | 100 | |
| Manfred township..... | 439 | 445 | 303 | Ray city..... | 563 | 436 | |
| Norway township (school)..... | 332 | 352 | 283 | Rock Island township..... | 377 | 174 | |
| Norway Lake township..... | 525 | 316 | 244 | Round Prairie township ⁶⁰ (T. 154, R. 103; frac. T. 154, R. 104)..... | 214 | 216 | |
| Oshkosh township (school)..... | 214 | 241 | 671 | Sauk Valley township..... | 251 | 143 | |
| Pony Gulch township ⁴⁹ | 304 | 311 | 260 | Scorio township ⁶⁰ (T. 159, R. 101)..... | 290 | 124 | |
| Progress township ⁴⁹ | 242 | 216 | 135 | South Meadow township..... | 213 | 136 | |
| Rusland township ⁴⁹ | 239 | 150 | 398 | Springbrook township ⁶⁰ | 112 | 354 | |
| Silver Lake township ⁴⁹ | 185 | 123 | 35 | Springbrook village ⁶⁰ | 93 | | |
| Speedwell township..... | 323 | 311 | 132 | Stony Creek township..... | 394 | 239 | |
| Sykeston township ⁴⁹ | 191 | 123 | 219 | Strandahl township ⁶⁰ (frac. T. 157, R. 103)..... | 193 | 119 | |
| Sykeston village..... | 367 | 276 | | Tioga township..... | 212 | 238 | |
| Valhalla township ⁴⁹ | 243 | 210 | 167 | Tioga village..... | 320 | 203 | |
| Wells township..... | 335 | 247 | 898 | Trenton township ⁶⁰ (parts of T. 153, Rs. 101 and 102)..... | 247 | 249 | |
| West Ontario township ⁴⁹ | 179 | 156 | 148 | Truax township ⁶⁰ (parts of Tps. 153 and 154, R. 98)..... | 195 | 133 | |
| Western township ⁴⁹ | 273 | 344 | 300 | Twelve Mile township ⁶⁰ (T. 154, R. 99; part of T. 153, R. 99)..... | 316 | 306 | |
| Woodward township ⁴⁹ | 236 | 202 | 237 | Tyrone township..... | 148 | 173 | |
| Williams County | 17,980 | 14,234 | *1,530 | View township ⁶⁰ (T. 155, R. 97)..... | 194 | 200 | |
| Athens township..... | 125 | 114 | | West Bank township..... | 238 | 181 | |
| Barr Butte township..... | 330 | 162 | | Wheolock township..... | 338 | 336 | |
| Big Meadow township..... | 298 | 240 | | Wildrose city ⁶⁰ | 449 | | |
| Big Stone township..... | 220 | 51 | | Williston city..... | 4,178 | 3,124 | |
| Black Tail township..... | 108 | 141 | | Williston township..... | 270 | 220 | |
| Blue Ridge township ⁶⁰ (T. 159, R. 100)..... | 162 | 104 | | Winner township ⁶⁰ (T. 158, R. 100)..... | 178 | 172 | |
| Bonetrail township..... | 242 | 157 | | Township 154, range 95 (part of)..... | 80 | 113 | |
| Brooklyn township..... | 206 | 235 | | Township 154, range 96 (part of)..... | 111 | 143 | |
| Buford township..... | 220 | 346 | | Township 154, range 97 (part of)..... | 90 | 57 | |
| Bull Butte township..... | 244 | 198 | | Fractional township 153, range 103..... | 135 | 43 | |
| Champion township..... | 203 | 88 | | | | | |
| Cow Creek township ⁶⁰ (T. 156, R. 102)..... | 170 | 162 | | | | | |

*See headnote.
⁴⁹ WELLS.—Townships organized from school townships since 1910: Berlin from Grant; Bull Moose from Buffalo; Chaseley from Antelope; Fairville from Fairview; Lynn from Eureka; Norway Lake from Viking; Progress from Lincoln; Silver Lake from Washington; West Ontario from Ontario; Western from Pioneer; and Bremen, Cathay, Crystal Lake, Germantown, Haaland, Hamburg, Hawks Nest, Hillsdale, Johnson, Pony Gulch, Rusland, Sykeston, Valhalla, and Woodward from school townships of same names, respectively.

⁶⁰ WILLIAMS.—Blue Ridge, Cow Creek, Good Luck, Grenora, Scorio, Strandahl, Trenton, Truax, Twelve Mile, View, and Winner townships organized from unorganized territory, and fractional townships 153 and 154, range 104, annexed to Hardscrabble and Round Prairie townships, respectively, since 1910. Grenora city incorporated from part of Grenora township, Wildrose city from part of Hazel township, and Epping and Springbrook villages from parts of Springbrook township, since 1910.

POPULATION—NORTH DAKOTA.

TABLE 3.—POPULATION OF INCORPORATED PLACES: 1920, 1910, AND 1900.

[The absence of population figures for 1910 or 1900 indicates that the place was incorporated at some date between the censuses, unless otherwise explained by footnote. Places which in 1910 were incorporated but, through surrender of charter or for other reasons, have no corporate existence in 1920 are not presented in this table.]

| CITY, TOWN, OR VILLAGE. | County. | 1920 | 1910 | 1900 | CITY, TOWN, OR VILLAGE. | County. | 1920 | 1910 | 1900 |
|--------------------------------|---------------|-------|-------|-------|-------------------------------|-------------|--------|--------|-------|
| Abercrombie village. | Richland | 266 | 299 | | Fairdale village. | Walsh | 192 | 140 | |
| Adams village. | Walsh | 404 | 338 | | Fairmount village. | Richland | 706 | 387 | 284 |
| Ambrose city ¹ | Divide | 389 | 320 | | Fargo city. | Cass | 21,961 | 14,331 | 9,589 |
| Amidon village. | Slope | 145 | | | Fessenden city. | Wells | 731 | 713 | |
| Anamoose village. | McHenry | 563 | 669 | | Finley village. | Steele | 599 | 516 | |
| Aneta city. | Nelson | 662 | 654 | | Flasher village. | Morton | 287 | | |
| Antler city. | Bottineau | 265 | 342 | | Flaxton village. | Burke | 374 | 301 | |
| Ardoch village. | Walsh | 153 | 271 | 298 | Forbes village. | Dickey | 293 | 221 | |
| Ashley village. | McIntosh | 1,009 | 682 | | Fordville village. | Walsh | 320 | | |
| Balfour village. | McHenry | 322 | 399 | | Forst River village. | Walsh | 228 | 233 | 252 |
| Bartlett village. | Ramsey | 98 | 120 | | Forman town. | Sargent | 402 | 352 | 257 |
| Barton village. | Pierce | 158 | 202 | | Fort Clark village. | Oliver | 86 | | |
| Bathgate city. | Pembina | 352 | 328 | 641 | Fortuna village. | Divide | 198 | | |
| Beach city ¹ | Golden Valley | 1,106 | 1,003 | | Fredonia village. | Logan | 298 | | |
| Beafield village. | Stark | 526 | | | Fullerton village. | Dickey | 202 | 206 | |
| Benedict village. | McLean | 195 | | | Gackle village. | Logan | 424 | | |
| Berlin village. | La Moure | 130 | 137 | | Gardena village. | Bottineau | 99 | 119 | |
| Berthold city ¹ | Ward | 493 | 464 | | Garrison city ¹ | McLean | 714 | 406 | |
| Baulah village. | Mercer | 552 | | | Gascoyne village. | Bowman | 60 | | |
| Binford village. | Griggs | 393 | 275 | | Glenn Ullin city ¹ | Morton | 875 | 921 | |
| Bisbee village. | Towner | 500 | 444 | | Glenburn village. | Renville | 228 | 268 | |
| Bismarck city. | Burlingame | 7,122 | 5,443 | 3,319 | Golden Valley village. | Mercer | 369 | | |
| Bottineau city. | Bottineau | 1,172 | 1,331 | 888 | Goodrich village. | Sheridan | 476 | 410 | |
| Bowbells city. | Burke | 943 | 651 | | Grafton city. | Walsh | 2,512 | 2,229 | 2,378 |
| Bowdon village. | Wells | 306 | 302 | | Grand Forks city ² | Grand Forks | 14,010 | 12,478 | 7,652 |
| Bowman village. | Bowman | 767 | 481 | | Grano village. | Renville | 112 | | |
| Braddock village. | Emmons | 216 | | | Granville city. | McHenry | 394 | 455 | |
| Brinsmade village. | Benson | 191 | 203 | | Great Bend village. | Richland | 142 | 191 | |
| Brocket village. | Ramsey | 240 | 186 | | Grenora city. | Williams | 358 | | |
| Bucyrus village. | Adams | 113 | | | Hague village. | Emmons | 315 | 183 | |
| Buffalo village. | Cass | 268 | 241 | 213 | Halliday village. | Dunn | 289 | | |
| Cahto village. | Cavalier | 132 | | | Hamilton village. | Pembina | 200 | 213 | 224 |
| Cando city. | Towner | 1,111 | 1,332 | 1,061 | Hampden village. | Ramsey | 199 | | |
| Canton village (Hensel P. O.). | Pembina | 101 | 115 | 98 | Hankinson city ¹ | Richland | 1,477 | 1,503 | 713 |
| Carpis village. | Ward | 244 | 257 | | Hannaford village. | Griggs | 431 | 840 | |
| Carrington city. | Foster | 1,420 | 1,217 | | Hansboro village. | Towner | 218 | | |
| Carson village. | Grant | 277 | | | Harvey city. | Wells | 1,690 | 1,443 | |
| Casselton city. | Cass | 1,538 | 1,553 | 1,207 | Hatton city. | Traill | 828 | 666 | 430 |
| Cathay village. | Wells | 185 | 225 | | Havana village. | Sargent | 319 | 387 | |
| Cavalier city. | Pembina | 819 | 652 | 671 | Haynes village. | Adams | 113 | | |
| Cayuga village. | Sargent | 182 | 175 | | Hazelton village. | Emmons | 382 | | |
| Churches Ferry village. | Ramsey | 353 | 457 | 264 | Hazen village. | Mercer | 520 | | |
| Cleveland village. | Stutsman | 341 | | | Hebron city ¹ | Morton | 1,374 | 597 | |
| Cogswell village. | Sargent | 445 | 418 | | Hettinger city ¹ | Adams | 817 | 766 | |
| Columbus village. | Burke | 332 | 225 | | Hillsboro city. | Traill | 1,183 | 1,237 | 1,172 |
| Conway village. | Walsh | 148 | 184 | 216 | Hoople village. | Walsh | 250 | 175 | 174 |
| Cooperstown city. | Griggs | 1,112 | 1,019 | 648 | Hope city. | Steele | 699 | 909 | 606 |
| Courtney village. | Stutsman | 490 | 539 | | Hunter village. | Cass | 424 | 365 | 407 |
| Crary village. | Ramsey | 307 | 279 | | Inkster city. | Grand Forks | 368 | 353 | |
| Crocus village. | Towner | 37 | | | Jamestown city. | Stutsman | 6,627 | 4,358 | 2,853 |
| Crosby city ¹ | Divide | 1,147 | 206 | | Jud village. | La Moure | 178 | 99 | |
| Crystal city. | Pembina | 349 | 376 | 335 | Kathryn village. | Barnes | 289 | | |
| Davenport village. | Cass | 214 | 226 | 245 | Kenmare city. | Ward | 1,446 | 1,437 | |
| Dawson village. | Kidder | 293 | | | Kensal village. | Stutsman | 415 | 456 | |
| Dazey village. | Barnes | 293 | 265 | | Kermit village. | Divide | 37 | 108 | |
| Deering village. | McHenry | 142 | 150 | | Kief village. | McHenry | 307 | | |
| Des Lacs village. | Ward | 188 | | | Killdeer village. | Dunn | 512 | | |
| Devils Lake city. | Ramsey | 5,140 | 5,157 | 1,729 | Kindred village. | Cass | 334 | | |
| Dickey village. | La Moure | 190 | 187 | | Knox village. | Benson | 173 | 330 | |
| Dickinson city. | Stark | 4,122 | 3,678 | 2,076 | Kramer village. | Bottineau | 172 | 181 | |
| Dodge village. | Duna | 172 | | | Kulm city. | La Moure | 725 | 645 | 463 |
| Dogden village. | McLean | 252 | 320 | | La Moure city. | La Moure | 1,014 | 920 | 457 |
| Donnybrook village. | Ward | 267 | 297 | | Lakota city. | Nelson | 959 | 1,023 | 576 |
| Douglas village. | Ward | 284 | 171 | | Langdon city. | Cavalier | 1,228 | 1,214 | 1,188 |
| Drake city ¹ | McHenry | 517 | 348 | | Lankin village. | Walsh | 334 | 341 | |
| Drayton city. | Pembina | 637 | 587 | 688 | Lansford city. | Bottineau | 337 | 456 | |
| Dunn Center village. | Dunn | 247 | | | Larimore city. | Grand Forks | 1,089 | 1,224 | 1,235 |
| Dunsmuir city. | Dunn | 247 | | | Larson village. | Burke | 114 | | |
| Dwight village. | Rolette | 374 | 478 | | Lawton village. | Ramsey | 227 | | |
| East Fairview village. | Richland | 139 | | | Leal village. | Barnes | 88 | | |
| | McKenzie | 175 | | | Leeds city. | Benson | 704 | 682 | 349 |
| Eckman village. | Bottineau | 64 | 84 | | Lehr city ² | Logan | 362 | 182 | |
| Edgely city ¹ | La Moure | 803 | 749 | 308 | Leith village. | McIntosh | | | |
| Edinburg village. | Walsh | 278 | 300 | 286 | Lidgerwood city. | Grant | 158 | | |
| Edmore village. | Ramsey | 501 | 344 | | Lignite village. | Richland | 1,085 | 1,019 | 585 |
| Egeland village. | Towner | 306 | 268 | | Linton city ¹ | Burke | 214 | | |
| Elgin city. | Grant | 429 | | | Lisbon city. | Emmons | 1,011 | 644 | |
| Ellendale city. | Dickey | 1,334 | 1,389 | 750 | Litchville village. | Ransom | 1,855 | 1,758 | 1,046 |
| Enderlin city. | Ransom | 1,919 | 1,540 | 636 | Loraine village. | Barnes | 523 | 484 | |
| Epping village. | Williams | 116 | | | Ludden village. | Renville | 74 | | |
| Esmond village. | Benson | 343 | 363 | | | Dickey | 132 | 109 | |

¹ Incorporated as a city since 1910.

² See county footnote, Table 2.

³ Part in Logan County, 91 in 1920; part in McIntosh County, 271 in 1920. Returned as located wholly in McIntosh County in 1910.

NUMBER AND DISTRIBUTION.

TABLE 3.—POPULATION OF INCORPORATED PLACES: 1920, 1910, AND 1900—Continued.

[The absence of population figures for 1910 or 1900 indicates that the place was incorporated at some date between the censuses, unless otherwise explained by footnote. Places which in 1910 were incorporated but, through surrender of charter or for other reasons, have no corporate existence in 1920 are not presented in this table.]

| CITY, TOWN, OR VILLAGE. | County. | 1920 | 1910 | 1900 | CITY, TOWN, OR VILLAGE. | County. | 1920 | 1910 | 1900 |
|-----------------------------------|------------------|--------|-------|-------|-----------------------------------|--------------------|-------|-------|-------|
| Luverne village..... | Steele..... | 225 | ..... | ..... | Rolla city..... | Rolette..... | 675 | 587 | 400 |
| McClusky city ¹ | Sheridan..... | 640 | 517 | ..... | Rugby city..... | Pierce..... | 1,424 | 1,030 | 487 |
| McHenry village..... | Foster..... | 299 | 398 | ..... | Ruso village..... | McLean..... | 120 | 141 | ..... |
| McVile village..... | Nelson..... | 546 | 310 | ..... | Russell village..... | Bottineau..... | 119 | 161 | ..... |
| Maddock city ¹ | Benson..... | 557 | 374 | ..... | Rutland village..... | Sargent..... | 291 | 224 | ..... |
| Mandan city..... | Morton..... | 4,336 | 3,873 | 1,658 | Ryder village..... | Ward..... | 453 | 338 | ..... |
| Mapleton village..... | Cass..... | 198 | 207 | 322 | St. John village..... | Rolette..... | 460 | 424 | ..... |
| Marion village..... | La. Moure..... | 204 | 241 | ..... | St. Thomas city..... | Pembina..... | 500 | 513 | 661 |
| Marmarth city ¹ | Slope..... | 1,318 | 790 | ..... | Sanborn village..... | Barnes..... | 391 | 390 | 259 |
| Max village..... | McLean..... | 473 | 285 | ..... | Sanish village..... | Mountrail..... | 337 | ..... | ..... |
| Maxbass village..... | Bottineau..... | 147 | 240 | ..... | Saries village ⁴ | Cavalier..... | 348 | 348 | ..... |
| Mayville city..... | Traill..... | 1,218 | 1,070 | 1,106 | Sawyer village..... | Towner..... | ..... | ..... | ..... |
| Medina village..... | Stutsman..... | 415 | 343 | ..... | Seranton village..... | Ward..... | 241 | 327 | ..... |
| Merricourt village..... | Dickey..... | 70 | 78 | ..... | Serfridge village..... | Bowman..... | 353 | 214 | ..... |
| Michigan City..... | Nelson..... | 491 | 449 | 309 | Sentinel Butte village..... | Sioux..... | 153 | ..... | ..... |
| Milnor town..... | Sargent..... | 680 | 641 | 322 | Sharon village..... | Golden Valley..... | 202 | ..... | ..... |
| Milton village..... | Cavalier..... | 393 | 410 | 384 | Sheldon village..... | Steele..... | 362 | 304 | ..... |
| Minnewaukan village..... | Benson..... | 564 | 510 | 432 | Sherwood city ¹ | Ransom..... | 321 | 358 | 318 |
| Minot city ² | Ward..... | 10,476 | 6,188 | 1,277 | Souris city..... | Reuville..... | 423 | 328 | ..... |
| Minto city..... | Walsh..... | 602 | 701 | 800 | Springbrook village..... | Bottineau..... | 290 | 267 | ..... |
| Mohall city..... | Renville..... | 651 | 493 | ..... | Stanley city..... | Williams..... | 93 | ..... | ..... |
| Monango village..... | Dickey..... | 231 | 238 | ..... | Stanton village..... | Mountrail..... | 501 | 513 | ..... |
| Montpelier village..... | Stutsman..... | 186 | ..... | ..... | Starkweather village..... | Mercer..... | 325 | ..... | ..... |
| Mooreton village..... | Richland..... | 123 | ..... | ..... | Steele city..... | Ramsey..... | 302 | 246 | ..... |
| Mott village..... | Hettinger..... | 723 | ..... | ..... | Strasburg village..... | Kidder..... | 550 | 500 | 185 |
| Munich village..... | Cavalier..... | 218 | ..... | ..... | Streeter village..... | Emmons..... | 653 | 273 | ..... |
| Mylo village..... | Rolette..... | 140 | 93 | ..... | Sykeson village..... | Stutsman..... | 640 | ..... | ..... |
| Napoleon village..... | Logan..... | 534 | ..... | ..... | Tagus village..... | Wells..... | 367 | 276 | ..... |
| Neche village..... | Pembina..... | 528 | 528 | 682 | Tappen village..... | Mountrail..... | 133 | 105 | ..... |
| Nekoma village..... | Cavalier..... | 189 | 120 | ..... | Taylor village..... | Kidder..... | 182 | ..... | ..... |
| New England city..... | Hettinger..... | 613 | ..... | ..... | Thorne village..... | Stark..... | 285 | ..... | ..... |
| New Leipzig village..... | Grant..... | 378 | ..... | ..... | Tioga village..... | Rolette..... | 78 | 105 | ..... |
| New Rockford city..... | Eddy..... | 2,111 | ..... | ..... | Tolley village..... | Williams..... | 320 | 293 | ..... |
| New Salem city ¹ | Morton..... | 711 | 621 | 220 | Tolna village..... | Renville..... | 325 | 250 | ..... |
| Newburg village..... | Bottineau..... | 110 | 102 | ..... | Tower City village..... | Nelson..... | 199 | 209 | ..... |
| Niagara village..... | Grand Forks..... | 199 | 157 | ..... | Towner city..... | Cass..... | 447 | 452 | 463 |
| Nome village..... | Barnes..... | 267 | 218 | ..... | Turtle Lake village..... | McHenry..... | 610 | 601 | 331 |
| Noonan village..... | Divide..... | 376 | 153 | ..... | Tuttle village..... | McLean..... | 395 | ..... | ..... |
| North Fargo village..... | Cass..... | 390 | ..... | ..... | Underwood village..... | Kidder..... | 321 | ..... | ..... |
| Northwood city..... | Grand Forks..... | 935 | 769 | 697 | Upham village..... | McLean..... | 453 | 422 | ..... |
| Oakes city..... | Dickey..... | 1,637 | 1,499 | 668 | Valley City..... | McHenry..... | 196 | 296 | ..... |
| Omamee village..... | Bottineau..... | 222 | 332 | ..... | Van Hook village..... | Barnes..... | 4,686 | 4,606 | 2,446 |
| Oriska village..... | Barnes..... | 300 | ..... | ..... | Velva city..... | Mountrail..... | 331 | ..... | ..... |
| Osnabrock village..... | Cavalier..... | 310 | 253 | ..... | Venturia village..... | McHenry..... | 836 | 837 | ..... |
| Overyly village..... | Bottineau..... | 193 | 182 | ..... | Verona village..... | McIntosh..... | 297 | ..... | ..... |
| Page village..... | Cass..... | 452 | 479 | ..... | Wabek village..... | La Moure..... | 258 | 235 | ..... |
| Palermo village..... | Mountrail..... | 179 | 177 | ..... | Wahpeton city..... | Mountrail..... | 40 | ..... | ..... |
| Park River city..... | Walsh..... | 1,114 | 1,008 | 1,038 | Wahalla city ¹ | Richland..... | 3,069 | 2,467 | 2,223 |
| Parshall city..... | Mountrail..... | 376 | ..... | ..... | Warwick village..... | Pembina..... | 634 | 592 | 377 |
| Pekin village..... | Nelson..... | 197 | ..... | ..... | Washburn city..... | Benson..... | 290 | ..... | ..... |
| Pembina city..... | Pembina..... | 802 | 717 | 929 | Watford City village..... | McLean..... | 558 | 657 | ..... |
| Perth village..... | Towner..... | 218 | 221 | ..... | Werner village..... | McKenzie..... | 260 | ..... | ..... |
| Petersburg village..... | Nelson..... | 367 | 353 | ..... | Westhope city..... | Dunn..... | 198 | ..... | ..... |
| Pillsbury village..... | Barnes..... | 142 | ..... | ..... | White Earth village..... | Bottineau..... | 439 | 592 | ..... |
| Pingree village..... | Stutsman..... | 286 | ..... | ..... | Wildrose city..... | Mountrail..... | 247 | 204 | ..... |
| Pisak village..... | Walsh..... | 300 | 312 | 132 | Williston city..... | Williams..... | 449 | ..... | ..... |
| Plaza village..... | Mountrail..... | 345 | 224 | ..... | Willow City..... | Williams..... | 4,178 | 3,124 | 763 |
| Portal village..... | Burke..... | 454 | 491 | ..... | Wilton city ⁵ | Bottineau..... | 559 | 623 | 476 |
| Portland city ¹ | Traill..... | 623 | 561 | 524 | Wimbledon village..... | Burleigh..... | 1,026 | 437 | ..... |
| Powers Lake village..... | Burke..... | 251 | ..... | ..... | Wishek village..... | McLean..... | ..... | ..... | ..... |
| Ray city ¹ | Williams..... | 563 | 436 | ..... | Woodworth village..... | Barnes..... | 521 | 571 | 226 |
| Reeder village..... | Adams..... | 253 | 198 | ..... | Wyndmore village..... | Barnes..... | 1,003 | 432 | ..... |
| Regan village..... | Burleigh..... | 202 | ..... | ..... | Zap village..... | McIntosh..... | 297 | ..... | ..... |
| Regent village..... | Hettinger..... | 262 | ..... | ..... | Zealand village..... | Stutsman..... | 297 | ..... | ..... |
| Reynolds city ⁴ | Grand Forks..... | 389 | 412 | 389 | | Richland..... | 570 | 439 | ..... |
| | Traill..... | | | | | Mercer..... | 257 | ..... | ..... |
| | | | | | | McIntosh..... | 323 | 193 | ..... |
| Rhame village..... | Bowman..... | 302 | ..... | ..... |  |  |  |  |  |
| Richardton village..... | Stark..... | 626 | 647 | ..... |  |  |  |  |  |
| Rock Lake village..... | Towner..... | 238 | 194 | ..... |  |  |  |  |  |
| Rogers village..... | Barnes..... | 173 | ..... | ..... |  |  |  |  |  |
| Rolette village..... | Rolette..... | 409 | 403 | ..... |  |  |  |  |  |

¹ Incorporated as a city since 1910.

² Incorporated prior to 1910, but not shown separately at that census.

³ See county footnote, Table 2.

⁴ Part in Grand Forks County; 184 in 1920; 159 in 1910; 173 in 1900. Part in Traill County; 205 in 1920; 253 in 1910; 216 in 1900.

⁵ Part in Cavalier County; 333 in 1920; 322 in 1910. Part in Towner County; 15 in 1920; 24 in 1910.

⁶ Part in Burleigh County, 108 in 1920; part in McLean County, 918 in 1920. Returned in 1910 as a village located wholly in McLean County. For annexations, see footnote on Burleigh County, Table 2.

POPULATION—NORTH DAKOTA.

TABLE 4.—POPULATION OF WARDS OF CITIES HAVING 5,000 INHABITANTS OR MORE: 1920.

| WARD. | 1920 | WARD. | 1920 | WARD. | 1920 |
|-------------------------------|--------------|-------------------------------|---------------|-----------------------------|---------------|
| Bismarck city | 7,122 | Fargo city | 21,961 | Jamestown city | 6,627 |
| Ward 1..... | 1,116 | Ward 1..... | 1,947 | Ward 1..... | 2,344 |
| Ward 2..... | 1,082 | Ward 2..... | 951 | Ward 2..... | 1,768 |
| Ward 3..... | 1,784 | Ward 3..... | 2,093 | Ward 3..... | 1,266 |
| Ward 4..... | 1,061 | Ward 4..... | 5,826 | Ward 4..... | 1,249 |
| Ward 5..... | 752 | Ward 5..... | 4,376 | | |
| Ward 6..... | 1,347 | Ward 6..... | 3,155 | | |
| | | Ward 7..... | 3,613 | | |
| Devils Lake city | 5,140 | Grand Forks city | 14,010 | Minot city | 10,476 |
| Ward 1..... | 1,387 | Ward 1..... | 1,997 | Ward 1..... | 1,039 |
| Ward 2..... | 1,327 | Ward 2..... | 1,529 | Ward 2..... | 1,500 |
| Ward 3..... | 1,300 | Ward 3..... | 789 | Ward 3..... | 2,053 |
| Ward 4..... | 1,126 | Ward 4..... | 1,375 | Ward 4..... | 1,385 |
| | | Ward 5..... | 2,470 | Ward 5..... | 1,248 |
| | | Ward 6..... | 3,280 | Ward 6..... | 410 |
| | | Ward 7..... | 2,570 | Ward 7..... | 1,242 |
| | | | | Ward 8..... | 1,599 |

TABLE 5.—URBAN AND RURAL POPULATION OF COUNTIES: 1920, 1910, AND 1900.

[A minus sign (-) denotes decrease.]

| COUNTY. | POPULATION. | | | | | | PER CENT URBAN IN TOTAL POPULATION. | | | PER CENT OF INCREASE IN— | | | | Rural population per square mile: 1920. |
|---------------------------------------|---------------|----------------|---------------|----------------|---------------|----------------|-------------------------------------|-------------|------------|--------------------------|---------------|-------------------|---------------|---|
| | 1920 | | 1910 | | 1900 | | 1920 | 1910 | 1900 | Urban population. | | Rural population. | | |
| | Urban. | Rural. | Urban. | Rural. | Urban. | Rural. | | | | 1910 to 1920. | 1900 to 1910. | 1910 to 1920. | 1900 to 1910. | |
| North Dakota | 88,239 | 558,633 | 63,236 | 513,820 | 23,413 | 285,733 | 13.6 | 11.0 | 7.3 | 39.5 | 170.1 | 8.7 | 73.7 | 8.0 |
| Barnes..... | 4,086 | 13,992 | 4,606 | 13,460 | ..... | 13,159 | 25.1 | 25.5 | ..... | 1.7 | ..... | 4.0 | 2.3 | 0.3 |
| Burleigh..... | 7,122 | 8,456 | 5,443 | 7,044 | 3,319 | 2,762 | 45.7 | 41.6 | 54.6 | 30.8 | 64.0 | 10.6 | 176.8 | 5.1 |
| Cass..... | 21,961 | 19,516 | 14,331 | 10,604 | 0,589 | 19,036 | 52.0 | 42.2 | 33.5 | 53.2 | 49.5 | -0.4 | 3.0 | 11.1 |
| Grand Forks..... | 14,010 | 14,785 | 12,478 | 15,410 | 7,052 | 18,807 | 48.7 | 44.7 | 31.3 | 12.3 | 63.1 | -4.1 | -8.3 | 10.3 |
| Morton..... | 4,336 | 14,378 | 3,873 | 21,416 | ..... | 10,277 | 23.2 | 15.3 | ..... | 12.0 | ..... | -32.9 | 108.4 | 7.4 |
| Ramsay..... | 5,140 | 10,287 | 5,157 | 10,042 | ..... | 9,198 | 33.3 | 33.0 | ..... | -0.3 | ..... | 2.4 | 9.2 | 8.5 |
| Richland..... | 3,069 | 17,818 | ..... | 19,659 | ..... | 17,387 | 14.7 | ..... | ..... | ..... | ..... | -9.4 | 13.1 | 12.4 |
| Stark..... | 4,122 | 9,420 | 3,078 | 8,826 | ..... | 7,621 | 30.4 | 29.4 | ..... | 12.1 | ..... | 6.7 | 15.8 | 6.9 |
| Stutsman..... | 6,027 | 17,948 | 4,358 | 13,831 | 2,853 | 6,200 | 27.0 | 24.0 | 31.2 | 52.1 | 52.8 | 20.8 | 119.9 | 7.9 |
| Walsh..... | 2,512 | 16,566 | ..... | 19,401 | ..... | 20,288 | 13.2 | ..... | ..... | ..... | ..... | -15.0 | -3.0 | 12.9 |
| Ward..... | 10,476 | 18,335 | 6,185 | 19,093 | ..... | 7,961 | 36.4 | 24.5 | ..... | 69.3 | ..... | -4.0 | 139.8 | 8.0 |
| Williams..... | 4,178 | 13,802 | 3,124 | 11,110 | ..... | 1,530 | 23.2 | 21.9 | ..... | 33.7 | ..... | 24.2 | 626.1 | 6.6 |
| All other counties ¹..... | ..... | 383,330 | ..... | 334,234 | ..... | 163,417 | ..... | ..... | ..... | ..... | ..... | 14.7 | 104.6 | 7.6 |

¹ Comprises all counties in which there are no incorporated places having 2,500 inhabitants or more in 1920. These counties are Adams, Benson, Billings, Bottineau, Bowman, Burke, Cavalier, Dickey, Divide, Dunn, Eddy, Emmons, Foster, Golden Valley, Grant, Griggs, Hettinger, Kidder, La Moure, Logan, McHenry, McIntosh, McKenzie, McLean, Mercer, Mountrail, Nelson, Oliver, Pembina, Pierce, Ransom, Renville, Rolette, Sargent, Sheridan, Sioux, Slope, Steele, Towner, Trail, and Wells.

COMPOSITION AND CHARACTERISTICS OF THE POPULATION.

This section gives detailed statistics as to the composition and characteristics of the population on January 1, 1920. It contains detailed tables, which present statistics of color or race, nativity, parentage, sex, age, school attendance, citizenship, illiteracy, dwellings and families, and country of birth, for the state and for its counties and cities. There are, besides, eight summary tables, which reproduce from the detailed tables the more important state and city totals, and supplemental tables for the Indian population. There are, also, statistics which cover the following subjects, not included in the second series of state bulletins: Marital condition, state of birth, year of immigration, inability to speak English, country of origin, mother tongue, and ownership of homes. The full presentation of all these subjects is contained in Volume II of the Fourteenth Census Reports.

The principal occupations, as reported for persons 10 years of age and over, are given by sex, color or race, nativity, parentage, and age periods, followed by a summary, by marital condition and age groups, of women gainfully occupied.

Because of the wide differences in characteristics among the various classes of the population, the statistics on each subject are shown according to color or race, and for the white population according to nativity and parentage. Classification according to nativity and parentage has not been deemed necessary for the other races, since nearly all Negroes and Indians are natives of native parentage, while nearly all Chinese and Japanese are either foreign born or of foreign parentage.

The white population is divided into four groups: (1) Native, native parentage—that is, having both parents born in the United States; (2) native, foreign parentage—having both parents born abroad; (3) native, mixed parentage—having one parent native and the other foreign born; (4) foreign born. As the second and third classes do not differ greatly in characteristics, they are combined in certain tables; and in some cases all three native classes are combined.

The presentation of statistics on country of birth of the foreign-born white population is made on the basis of the postwar map. Because of the many political changes which have resulted from the war, comparative figures for 1910 for this class of the population by individual European countries are not presented here.

Since marked differences often exist between urban and rural communities with respect to the composition

and characteristics of their population, the two classes are shown separately in connection with several of the subjects. Urban population, as defined by the Census Bureau, is that residing in cities and other incorporated places having 2,500 inhabitants or more, the remainder being classified as rural.

The census inquiry as to school attendance was merely as to whether the person enumerated had attended school, college, or any kind of educational institution at any time between September 1, 1919, and the census date, January 1, 1920.

The Census Bureau classifies as illiterate any person 10 years of age or over who is unable to write in any language, not necessarily English, regardless of ability to read.

The statistics of marital condition relate only to persons 15 years of age and over, as the number of persons under 15 who are married, widowed, or divorced is naturally insignificant. The terms refer only to the marital status of the population on the census date.

The returns as to state of birth are valuable mainly for the light they throw on the migration of the native population within the United States; they show, for each state, the population residing there on January 1, 1920, distributed as born in the state or elsewhere.

Since the foreign-born population consists mainly of foreign-born whites, the statistics for citizenship relate to this class only. The classification embraces four groups, namely, persons reported as naturalized, persons reported as having taken out first papers, persons reported as aliens, and persons for whom citizenship was not reported.

The inquiry as to year of immigration supplies a means for determining what proportion of the immigrants who arrived during a given year or period of years were still alive and residing in this country on the census date.

The foreign white stock comprises the total of three classes, the foreign-born whites, the native whites of foreign parentage (both parents born abroad), and the native whites of mixed parentage (one parent native and the other foreign born). The term "country of origin," as used in this report, signifies the country of birth of the father of a foreign-born person or the foreign-born parent or parents of a native. The term "mother tongue" means the language of customary speech in the homes of immigrants before immigration.

POPULATION—NORTH DAKOTA.

TABLE 1.—COLOR OR RACE, NATIVITY, PARENTAGE, AND SEX, FOR THE STATE AND URBAN AND RURAL POPULATION: 1920, 1910, AND 1900.

| CLASS OF POPULATION. | NUMBER. | | | PER CENT OF TOTAL. | | | 1920 | | 1910 | | 1900 | | MALES TO 100 FEMALES. ¹ | | |
|---|-------------------|---------|---------|--------------------|-------|-------|---------|---------|---------|---------|---------|---------|------------------------------------|-------|-------|
| | 1920 | 1910 | 1900 | 1920 | 1910 | 1900 | Male. | Female. | Male. | Female. | Male. | Female. | 1920 | 1910 | 1900 |
| | THE STATE. | | | | | | | | | | | | | | |
| Total population..... | 646,372 | 577,056 | 319,146 | 100.0 | 100.0 | 100.0 | 341,673 | 305,199 | 317,554 | 259,502 | 177,493 | 141,653 | 112.0 | 122.4 | 125.3 |
| White..... | 639,954 | 569,855 | 311,712 | 98.9 | 98.8 | 97.7 | 338,031 | 301,923 | 313,851 | 250,004 | 173,676 | 138,036 | 112.0 | 122.6 | 125.8 |
| Negro..... | 487 | 617 | 238 | 0.1 | 0.1 | 0.1 | 276 | 191 | 381 | 236 | 173 | 113 | 144.5 | 161.4 | 153.1 |
| Indian..... | 6,254 | 6,458 | 6,968 | 1.0 | 1.1 | 2.2 | 3,183 | 3,071 | 3,224 | 3,262 | 3,465 | 3,503 | 103.6 | 93.8 | 98.9 |
| Chinese..... | 124 | 30 | 32 | (2) | (2) | (2) | 119 | 5 | 39 | 31 | 1 | | | | |
| Japanese..... | 72 | 59 | 148 | (2) | (2) | (2) | 63 | 9 | 59 | | | | | | |
| All other (Hindu)..... | 1 | | | (2) | | | 1 | | | | | | | | |
| URBAN POPULATION. | | | | | | | | | | | | | | | |
| Total..... | 88,239 | 63,236 | 23,413 | 100.0 | 100.0 | 100.0 | 43,030 | 44,609 | 33,909 | 29,327 | 12,188 | 11,225 | 97.8 | 115.6 | 108.6 |
| White..... | 87,658 | 62,765 | 23,267 | 99.3 | 99.3 | 99.4 | 43,271 | 44,387 | 33,583 | 29,182 | 12,100 | 11,167 | 97.5 | 113.1 | 108.4 |
| Negro..... | 272 | 306 | 125 | 0.3 | 0.5 | 0.5 | 155 | 117 | 197 | 109 | 73 | 52 | 132.5 | 130.7 | |
| Indian, Chinese, and Japanese..... | 309 | 165 | 21 | 0.4 | 0.3 | 0.1 | 204 | 105 | 129 | 36 | 15 | 6 | 194.3 | | |
| RURAL POPULATION. | | | | | | | | | | | | | | | |
| Total..... | 558,633 | 513,820 | 295,733 | 100.0 | 100.0 | 100.0 | 298,643 | 260,590 | 283,645 | 230,175 | 165,305 | 130,428 | 114.4 | 123.2 | 126.7 |
| White..... | 552,295 | 507,090 | 288,445 | 98.9 | 98.7 | 97.5 | 294,760 | 257,638 | 280,268 | 226,822 | 161,576 | 128,860 | 114.5 | 123.6 | 127.4 |
| Negro..... | 195 | 311 | 161 | (2) | 0.1 | 0.1 | 121 | 74 | 184 | 127 | 100 | 61 | 144.9 | | |
| Indian, Chinese, Japanese, and all other..... | 6,142 | 6,419 | 7,127 | 1.1 | 1.2 | 2.4 | 3,162 | 2,980 | 3,193 | 3,226 | 3,629 | 3,498 | 106.1 | 99.0 | 103.7 |

¹ Ratio not shown where number of females is less than 100.

² Less than one-tenth of 1 per cent.

TABLE 2.—SCHOOL ATTENDANCE, FOR THE STATE AND URBAN AND RURAL POPULATION: 1920 AND 1910.

[Per cent not shown where base is less than 100. For statistics of school attendance for Indian population, see supplemental table.]

| AGE PERIOD. | ALL CLASSES. | | | NATIVE WHITE. | | | | | | FOREIGN-BORN WHITE. | | | NEGRO. | | |
|-------------------------------|---------------|-------------------|-----------|---------------|-------------------|-----------|-----------------------------|-----------|---------------|---------------------|-----------|---------------|-------------------|-----------|------|
| | Total number. | Attending school. | | Total number. | Native parentage. | | Foreign or mixed parentage. | | Total number. | Attending school. | | Total number. | Attending school. | | |
| | | Number. | Per cent. | | Number. | Per cent. | Number. | Per cent. | | Number. | Per cent. | | Number. | Per cent. | |
| THE STATE: 1920 | | | | | | | | | | | | | | | |
| 5 to 20 years, inclusive..... | 233,065 | 158,259 | 67.9 | 85,780 | 60,975 | 71.1 | 134,674 | 81,459 | 67.9 | 10,144 | 4,747 | 46.8 | 111 | 70 | 63.1 |
| Male..... | 117,263 | 79,189 | 67.5 | 43,207 | 30,426 | 70.4 | 67,642 | 45,885 | 67.8 | 5,196 | 2,392 | 46.0 | 60 | 35 | |
| Female..... | 115,802 | 79,070 | 68.3 | 42,573 | 30,549 | 71.8 | 67,032 | 45,574 | 68.0 | 4,948 | 2,355 | 47.6 | 51 | 35 | |
| 5 and 6 years..... | 35,045 | 11,970 | 34.2 | 15,507 | 5,070 | 32.6 | 18,818 | 6,157 | 32.7 | 363 | 110 | 30.3 | 22 | 3 | |
| 7 to 13 years..... | 111,711 | 102,876 | 92.1 | 42,787 | 39,780 | 93.0 | 64,819 | 59,003 | 92.4 | 2,996 | 2,521 | 84.1 | 54 | 47 | |
| 14 and 15 years..... | 26,900 | 23,489 | 87.3 | 9,100 | 8,211 | 90.2 | 16,118 | 13,982 | 86.7 | 1,415 | 1,136 | 80.3 | 12 | 12 | |
| 16 and 17 years..... | 25,143 | 13,417 | 53.4 | 7,911 | 4,855 | 61.4 | 15,073 | 7,727 | 51.3 | 1,892 | 704 | 37.2 | 14 | 7 | |
| 18 to 20 years..... | 34,266 | 6,507 | 19.0 | 10,475 | 2,459 | 23.5 | 19,846 | 3,690 | 18.6 | 3,568 | 278 | 7.7 | 9 | 1 | |
| URBAN POPULATION. | | | | | | | | | | | | | | | |
| 5 and 6 years..... | 3,713 | 1,584 | 42.7 | 2,092 | 907 | 43.4 | 1,546 | 652 | 42.2 | 65 | 24 | 36.9 | 8 | 1 | |
| 7 to 13 years..... | 11,916 | 11,310 | 94.9 | 5,997 | 5,723 | 95.4 | 5,514 | 5,234 | 94.9 | 328 | 281 | 86.2 | 17 | 15 | |
| 14 to 20 years..... | 11,042 | 5,988 | 54.2 | 4,669 | 2,812 | 60.2 | 5,555 | 2,916 | 52.5 | 747 | 216 | 28.9 | 13 | 8 | |
| RURAL POPULATION. | | | | | | | | | | | | | | | |
| 5 and 6 years..... | 31,332 | 10,386 | 33.1 | 13,415 | 4,763 | 35.5 | 17,272 | 5,505 | 31.9 | 298 | 86 | 28.9 | 14 | 2 | |
| 7 to 13 years..... | 99,795 | 91,566 | 91.8 | 36,790 | 34,057 | 92.6 | 59,805 | 54,669 | 92.2 | 2,580 | 2,240 | 86.8 | 37 | 32 | |
| 14 to 20 years..... | 75,207 | 37,425 | 49.7 | 22,817 | 12,713 | 55.7 | 45,482 | 22,483 | 49.4 | 6,128 | 1,900 | 31.0 | 22 | 12 | |
| THE STATE: 1910 | | | | | | | | | | | | | | | |
| 5 to 20 years, inclusive..... | 198,361 | 119,006 | 60.0 | 58,393 | 37,332 | 63.9 | 115,480 | 71,211 | 61.7 | 21,847 | 8,951 | 41.0 | 111 | 61 | 55.0 |
| Male..... | 101,940 | 60,657 | 59.5 | 30,031 | 18,399 | 61.3 | 53,407 | 30,055 | 56.3 | 12,209 | 4,948 | 40.5 | 53 | 32 | |
| Female..... | 96,421 | 58,349 | 60.5 | 28,362 | 18,933 | 66.8 | 57,073 | 35,156 | 61.6 | 9,638 | 4,003 | 41.5 | 58 | 29 | |
| 5 and 6 years..... | 30,195 | 8,547 | 28.3 | 10,313 | 3,166 | 30.7 | 18,127 | 5,054 | 27.9 | 1,392 | 274 | 19.7 | 13 | 5 | |
| 7 to 13 years..... | 87,495 | 75,340 | 86.1 | 26,870 | 23,387 | 87.0 | 51,885 | 45,908 | 87.3 | 7,785 | 5,780 | 74.0 | 43 | 33 | |
| 14 and 15 years..... | 22,233 | 17,760 | 79.9 | 6,108 | 5,215 | 85.4 | 13,283 | 10,762 | 81.0 | 2,503 | 1,503 | 60.0 | 12 | 10 | |
| 16 and 17 years..... | 22,448 | 11,089 | 49.4 | 6,022 | 3,528 | 58.6 | 13,191 | 6,627 | 49.5 | 2,842 | 680 | 23.9 | 12 | 8 | |
| 18 to 20 years..... | 35,990 | 6,270 | 17.4 | 9,382 | 2,036 | 21.7 | 18,994 | 3,560 | 18.7 | 7,225 | 564 | 7.8 | 31 | 5 | |
| URBAN POPULATION. | | | | | | | | | | | | | | | |
| 5 and 6 years..... | 2,314 | 663 | 28.7 | 1,040 | 308 | 29.6 | 1,154 | 324 | 28.1 | 116 | 29 | 25.0 | 8 | 1 | |
| 7 to 13 years..... | 7,311 | 6,560 | 89.7 | 3,083 | 2,744 | 90.5 | 3,691 | 3,335 | 90.4 | 542 | 442 | 81.5 | 15 | 9 | |
| 14 to 20 years..... | 8,768 | 4,230 | 48.2 | 3,201 | 1,793 | 56.0 | 4,466 | 2,161 | 49.0 | 1,096 | 224 | 20.4 | 18 | 9 | |
| RURAL POPULATION. | | | | | | | | | | | | | | | |
| 5 and 6 years..... | 27,881 | 7,884 | 28.3 | 9,273 | 2,858 | 30.8 | 16,673 | 4,730 | 27.9 | 1,276 | 245 | 19.2 | 10 | 4 | |
| 7 to 13 years..... | 80,184 | 68,780 | 85.8 | 23,537 | 20,643 | 87.7 | 43,194 | 41,873 | 97.1 | 7,243 | 5,313 | 73.4 | 23 | 24 | |
| 14 to 20 years..... | 71,903 | 30,889 | 43.0 | 18,309 | 8,988 | 49.1 | 41,062 | 18,688 | 45.5 | 11,574 | 2,693 | 23.3 | 37 | 14 | |

POPULATION—NORTH DAKOTA.

TABLE 4.—ILLITERACY, FOR THE STATE AND URBAN AND RURAL POPULATION: 1920 AND 1910.

[Per cent not shown where base is less than 100. For statistics of illiteracy for Indian population, see supplemental table.]

| AGE PERIOD. | ALL CLASSES. | | | NATIVE WHITE. | | | | | | FOREIGN-BORN WHITE. | | | NEGRO. | | |
|--------------------------|---------------|-------------|-----------|-------------------|-------------|-----------|-----------------------------|-------------|-----------|---------------------|-------------|-----------|---------------|-------------|-----------|
| | | | | Native parentage. | | | Foreign or mixed parentage. | | | | | | | | |
| | Total number. | Illiterate. | | Total number. | Illiterate. | | Total number. | Illiterate. | | Total number. | Illiterate. | | Total number. | Illiterate. | |
| | | Number. | Per cent. | | Number. | Per cent. | | Number. | Per cent. | | Number. | Per cent. | | Number. | Per cent. |
| THE STATE: 1920 | | | | | | | | | | | | | | | |
| 10 years and over..... | 470,210 | 9,937 | 2.1 | 126,692 | 335 | 0.3 | 208,432 | 972 | 0.5 | 129,951 | 7,238 | 5.6 | 405 | 16 | 4.0 |
| Male..... | 251,989 | 4,681 | 1.9 | 66,826 | 191 | 0.3 | 107,748 | 543 | 0.5 | 74,633 | 3,221 | 4.3 | 243 | 9 | 3.7 |
| Female..... | 218,221 | 5,256 | 2.4 | 59,866 | 144 | 0.2 | 100,684 | 429 | 0.4 | 55,318 | 4,017 | 7.3 | 162 | 7 | 4.3 |
| 10 to 15 years..... | 87,883 | 246 | 0.3 | 31,205 | 42 | 0.1 | 52,269 | 120 | 0.2 | 3,444 | 19 | 0.6 | 46 | ..... | ..... |
| Male..... | 44,613 | 137 | 0.3 | 15,893 | 21 | 0.1 | 26,482 | 68 | 0.3 | 1,762 | 6 | 0.3 | 21 | ..... | ..... |
| Female..... | 43,270 | 109 | 0.3 | 15,312 | 21 | 0.1 | 25,787 | 52 | 0.2 | 1,682 | 13 | 0.8 | 25 | ..... | ..... |
| 16 to 20 years..... | 59,409 | 318 | 0.5 | 18,386 | 35 | 0.2 | 34,919 | 135 | 0.4 | 5,460 | 93 | 1.7 | 23 | ..... | ..... |
| Male..... | 29,228 | 179 | 0.6 | 8,922 | 24 | 0.3 | 17,153 | 77 | 0.4 | 2,828 | 50 | 1.8 | 15 | ..... | ..... |
| Female..... | 30,181 | 139 | 0.5 | 9,464 | 11 | 0.1 | 17,766 | 58 | 0.3 | 2,632 | 43 | 1.6 | 8 | ..... | ..... |
| 21 years and over..... | 322,918 | 9,373 | 2.9 | 77,101 | 258 | 0.3 | 121,244 | 717 | 0.6 | 121,047 | 7,126 | 5.9 | 336 | 16 | 4.8 |
| Male..... | 178,148 | 4,365 | 2.5 | 42,011 | 146 | 0.3 | 64,113 | 398 | 0.6 | 70,043 | 3,165 | 4.5 | 207 | 9 | 4.3 |
| Female..... | 144,770 | 5,008 | 3.5 | 35,090 | 112 | 0.3 | 57,131 | 319 | 0.6 | 51,004 | 3,961 | 7.8 | 129 | 7 | 5.4 |
| URBAN POPULATION. | | | | | | | | | | | | | | | |
| 10 years and over..... | 69,401 | 1,021 | 1.5 | 25,529 | 81 | 0.3 | 27,424 | 98 | 0.4 | 15,918 | 795 | 5.0 | 244 | 12 | 4.9 |
| Male..... | 34,217 | 460 | 1.4 | 12,871 | 44 | 0.3 | 12,483 | 55 | 0.4 | 8,528 | 333 | 3.9 | 140 | 6 | 4.3 |
| Female..... | 35,184 | 555 | 1.6 | 12,658 | 37 | 0.3 | 14,941 | 43 | 0.3 | 7,390 | 462 | 6.3 | 104 | 6 | 5.8 |
| 10 to 15 years..... | 9,486 | 39 | 0.4 | 4,512 | 16 | 0.4 | 4,546 | 17 | 0.4 | 343 | 4 | 1.2 | 14 | ..... | ..... |
| 16 to 20 years..... | 8,060 | 35 | 0.4 | 3,315 | 10 | 0.3 | 4,088 | 15 | 0.4 | 608 | 7 | 1.2 | 8 | ..... | ..... |
| 21 years and over..... | 51,855 | 947 | 1.8 | 17,702 | 55 | 0.3 | 18,790 | 66 | 0.4 | 14,967 | 784 | 5.2 | 222 | 12 | 5.4 |
| RURAL POPULATION. | | | | | | | | | | | | | | | |
| 10 years and over..... | 400,809 | 8,916 | 2.2 | 101,163 | 254 | 0.3 | 181,008 | 874 | 0.5 | 114,033 | 6,443 | 5.7 | 161 | 4 | 2.5 |
| Male..... | 217,772 | 4,215 | 1.9 | 53,955 | 147 | 0.3 | 95,265 | 488 | 0.5 | 66,105 | 2,888 | 4.4 | 103 | 3 | 2.9 |
| Female..... | 183,037 | 4,701 | 2.6 | 47,208 | 107 | 0.2 | 85,743 | 386 | 0.5 | 47,928 | 3,555 | 7.4 | 58 | 1 | ..... |
| 10 to 15 years..... | 78,397 | 207 | 0.3 | 26,693 | 26 | 0.1 | 47,723 | 103 | 0.2 | 3,101 | 15 | 0.5 | 32 | ..... | ..... |
| 16 to 20 years..... | 51,340 | 283 | 0.6 | 15,071 | 25 | 0.2 | 30,831 | 120 | 0.4 | 4,852 | 36 | 1.8 | 15 | ..... | ..... |
| 21 years and over..... | 271,063 | 8,426 | 3.1 | 59,399 | 203 | 0.3 | 102,454 | 651 | 0.6 | 106,080 | 6,342 | 6.0 | 114 | 4 | 3.5 |
| THE STATE: 1910 | | | | | | | | | | | | | | | |
| 10 years and over..... | 424,730 | 13,070 | 3.1 | 108,422 | 349 | 0.3 | 180,559 | 1,064 | 0.7 | 150,451 | 9,474 | 6.3 | 546 | 28 | 4.8 |
| Male..... | 240,653 | 6,845 | 2.8 | 61,853 | 231 | 0.4 | 86,310 | 545 | 0.6 | 89,080 | 4,807 | 5.4 | 348 | 16 | 4.6 |
| Female..... | 184,072 | 6,425 | 3.5 | 46,569 | 118 | 0.3 | 74,249 | 519 | 0.7 | 60,771 | 4,667 | 7.7 | 198 | 10 | 5.1 |
| 10 to 15 years..... | 69,906 | 874 | 1.2 | 20,000 | 20 | 0.1 | 41,525 | 270 | 0.7 | 7,370 | 448 | 6.1 | 34 | ..... | ..... |
| Male..... | 35,848 | 439 | 1.2 | 10,311 | 7 | 0.1 | 21,103 | 137 | 0.6 | 3,921 | 293 | 5.9 | 19 | ..... | ..... |
| Female..... | 34,148 | 435 | 1.3 | 9,749 | 13 | 0.1 | 20,419 | 133 | 0.7 | 3,449 | 215 | 6.2 | 15 | ..... | ..... |
| 16 to 20 years..... | 58,438 | 1,246 | 2.1 | 15,404 | 34 | 0.2 | 32,185 | 262 | 0.8 | 10,167 | 838 | 8.2 | 43 | 1 | ..... |
| Male..... | 30,920 | 789 | 2.4 | 8,137 | 21 | 0.3 | 16,342 | 118 | 0.7 | 6,038 | 545 | 9.0 | 18 | ..... | ..... |
| Female..... | 27,518 | 507 | 1.8 | 7,217 | 13 | 0.2 | 15,843 | 144 | 0.9 | 4,129 | 293 | 7.1 | 25 | ..... | ..... |
| 21 years and over..... | 296,296 | 10,950 | 3.7 | 72,058 | 295 | 0.4 | 86,849 | 532 | 0.6 | 132,914 | 8,188 | 6.2 | 409 | 25 | 5.3 |
| Male..... | 173,890 | 5,467 | 3.1 | 43,358 | 203 | 0.5 | 48,862 | 290 | 0.6 | 79,721 | 4,029 | 5.1 | 311 | 16 | 5.1 |
| Female..... | 122,406 | 5,483 | 4.5 | 29,000 | 92 | 0.3 | 37,987 | 242 | 0.6 | 53,193 | 4,159 | 7.8 | 158 | 9 | 5.7 |
| URBAN POPULATION. | | | | | | | | | | | | | | | |
| 10 years and over..... | 51,226 | 1,114 | 2.2 | 18,220 | 23 | 0.1 | 17,844 | 28 | 0.2 | 14,721 | 1,039 | 7.1 | 288 | 12 | 4.2 |
| Male..... | 27,814 | 720 | 2.6 | 10,294 | 13 | 0.2 | 8,636 | 12 | 0.1 | 8,528 | 672 | 7.9 | 186 | 7 | 3.8 |
| Female..... | 23,412 | 394 | 1.7 | 7,926 | 5 | 0.1 | 9,168 | 16 | 0.2 | 6,193 | 367 | 5.9 | 102 | 5 | 4.9 |
| 10 to 15 years..... | 6,150 | 23 | 0.4 | 2,426 | 1 | (1) | 3,181 | 2 | 0.1 | 497 | 20 | 4.0 | 13 | ..... | ..... |
| 16 to 20 years..... | 6,728 | 154 | 2.3 | 2,419 | 1 | (1) | 3,534 | 9 | 0.3 | 927 | 143 | 15.4 | 14 | ..... | ..... |
| 21 years and over..... | 38,348 | 937 | 2.4 | 13,375 | 21 | 0.2 | 11,329 | 17 | 0.2 | 13,297 | 876 | 6.6 | 261 | 12 | 4.6 |
| RURAL POPULATION. | | | | | | | | | | | | | | | |
| 10 years and over..... | 373,504 | 11,956 | 3.2 | 90,202 | 326 | 0.4 | 142,715 | 1,036 | 0.7 | 135,730 | 8,435 | 6.2 | 258 | 14 | 5.4 |
| Male..... | 212,844 | 5,925 | 2.8 | 51,562 | 213 | 0.4 | 77,624 | 533 | 0.7 | 81,152 | 4,135 | 5.1 | 162 | 9 | 5.6 |
| Female..... | 160,660 | 6,031 | 3.8 | 38,640 | 113 | 0.3 | 65,091 | 503 | 0.8 | 54,578 | 4,300 | 7.9 | 96 | 5 | ..... |
| 10 to 15 years..... | 63,846 | 851 | 1.3 | 17,634 | 19 | 0.1 | 38,344 | 288 | 0.7 | 6,873 | 428 | 6.2 | 21 | ..... | ..... |
| 16 to 20 years..... | 51,710 | 1,082 | 2.1 | 12,985 | 33 | 0.3 | 23,851 | 253 | 0.9 | 9,240 | 695 | 7.5 | 29 | ..... | ..... |
| 21 years and over..... | 257,948 | 10,013 | 3.9 | 59,538 | 274 | 0.5 | 75,520 | 515 | 0.7 | 119,617 | 7,312 | 6.1 | 203 | 13 | 6.3 |

1 Less than one-tenth of 1 per cent.

COMPOSITION AND CHARACTERISTICS.

TABLE 5.—POPULATION 21 YEARS OF AGE AND OVER, BY SEX, CLASS OF POPULATION, AND CITIZENSHIP, FOR THE STATE: 1920 AND 1910.

| CLASS OF POPULATION AND CITIZENSHIP. | POPULATION 21 YEARS OF AGE AND OVER. | | | PER CENT DISTRIBUTION. | | | CLASS OF POPULATION AND CITIZENSHIP. | POPULATION 21 YEARS OF AGE AND OVER. | | | PER CENT DISTRIBUTION. | | |
|--------------------------------------|--------------------------------------|----------------|----------------|------------------------|------------------|------------------|--------------------------------------|--------------------------------------|--------|--------------|------------------------|------|----------------|
| | Male. | | Female: 1920 | Male. | | Fe- male: 1920 | | Male. | | Female: 1920 | Male. | | Fe- male: 1920 |
| | 1920 | 1910 | | 1920 | 1910 | | | 1920 | 1910 | | | | |
| Total | 178,148 | 173,890 | 144,770 | 100.0 | 100.0 | 100.0 | Native white..... | 106,124 | 92,220 | 92,221 | 59.6 | 53.0 | 63.7 |
| White..... | 178,167 | 171,941 | 143,225 | 98.9 | 98.9 | 98.9 | Native parentage..... | 42,011 | 43,358 | 35,090 | 23.6 | 24.9 | 24.2 |
| Negro..... | 207 | 311 | 129 | 0.1 | 0.2 | 0.1 | Foreign parentage..... | 49,091 | 38,401 | 43,577 | 27.6 | 22.1 | 30.1 |
| Indian..... | 1,613 | 1,551 | 1,409 | 0.9 | 0.9 | 1.0 | Mixed parentage..... | 15,022 | 10,461 | 13,554 | 8.4 | 6.0 | 9.4 |
| Chinese..... | 101 | 35 | 3 | 0.1 | (¹) | (¹) | Foreign-born white..... | 70,043 | 79,721 | 51,004 | 39.3 | 45.8 | 35.2 |
| Japanese..... | 59 | 52 | 4 | (¹) | (¹) | (¹) | Naturalized..... | 51,350 | 46,636 | 39,837 | 28.8 | 26.8 | 27.5 |
| All other..... | 1 | | | (¹) | | | Having first papers..... | 6,558 | 9,824 | 407 | 3.7 | 5.6 | 0.3 |
| | | | | | | | Alien..... | 7,017 | 10,965 | 6,702 | 3.9 | 6.3 | 4.6 |
| | | | | | | | Unknown..... | 5,118 | 12,296 | 4,058 | 2.9 | 7.1 | 2.8 |

¹ Less than one-tenth of 1 per cent.

TABLE 6.—COUNTRY OF BIRTH OF THE FOREIGN-BORN WHITE, FOR THE STATE AND FARGO: 1920.

| COUNTRY OF BIRTH. | THE STATE. | | FARGO. | | COUNTRY OF BIRTH. | THE STATE. | | FARGO. | |
|----------------------------|----------------|------------------------|--------------|------------------------|--------------------------|------------|------------------------|---------|------------------------|
| | Number. | Per cent distribution. | Number. | Per cent distribution. | | Number. | Per cent distribution. | Number. | Per cent distribution. |
| All countries | 131,503 | 100.0 | 3,788 | 100.0 | Hungary..... | 2,510 | 1.9 | 21 | 0.6 |
| Austria..... | 2,059 | 1.6 | 33 | 0.9 | Ireland..... | 1,060 | 1.3 | 124 | 3.3 |
| Belgium..... | 456 | 0.3 | 10 | 0.3 | Luxemburg..... | 229 | 0.2 | 7 | 0.2 |
| Canada—French..... | 1,533 | 1.2 | 56 | 1.5 | Netherlands..... | 903 | 0.7 | 7 | 0.2 |
| Canada—Other..... | 14,017 | 10.7 | 563 | 14.9 | Norway..... | 38,190 | 29.0 | 1,377 | 36.4 |
| Czechoslovakia..... | 2,056 | 1.6 | 14 | 0.4 | Poland..... | 2,236 | 1.7 | 52 | 1.4 |
| Denmark..... | 4,552 | 3.5 | 101 | 2.7 | Rumania..... | 1,811 | 1.4 | 20 | 0.5 |
| England..... | 2,287 | 1.7 | 145 | 3.8 | Russia..... | 29,617 | 22.5 | 201 | 5.3 |
| Finland..... | 1,108 | 0.8 | 3 | 0.1 | Scotland..... | 1,229 | 0.9 | 38 | 1.0 |
| France..... | 350 | 0.3 | 18 | 0.5 | Sweden..... | 10,543 | 8.0 | 575 | 15.2 |
| Germany..... | 11,960 | 9.1 | 286 | 7.6 | Switzerland..... | 506 | 0.4 | 19 | 0.5 |
| Greece..... | 420 | 0.3 | 40 | 1.1 | Syria..... | 289 | 0.2 | 29 | 0.8 |
| | | | | | All other countries..... | 973 | 0.7 | 40 | 1.3 |

TABLE 7.—INDIANS, CHINESE, AND JAPANESE, FOR COUNTIES: 1920, 1910, AND 1900.

| COUNTY. | INDIAN. | | | CHINESE. | | | JAPANESE. | | | COUNTY. | INDIAN. | | | CHINESE. | | | JAPANESE. | | |
|------------------------|--------------|--------------|--------------|------------|-----------|-----------|-----------|-----------|------------|-------------------------|---------|-------|-------|----------|------|------|-----------|------|------|
| | 1920 | 1910 | 1900 | 1920 | 1910 | 1900 | 1920 | 1910 | 1900 | | 1920 | 1910 | 1900 | 1920 | 1910 | 1900 | 1920 | 1910 | 1900 |
| The state | 6,254 | 6,486 | 6,968 | 124 | 39 | 32 | 72 | 59 | 148 | Nelson..... | 2 | | | | | | | | |
| Barnes..... | | | | 5 | 1 | | 1 | | | Pembina..... | 93 | 386 | 98 | | | | | | |
| Benson..... | 812 | 1,023 | 1,181 | | | | | | | Ramsey..... | 31 | 8 | 2 | 14 | | 1 | | 6 | |
| Bottineau..... | 6 | | 1 | | | | | | | Ransom..... | | | | 1 | | | | | |
| Burleigh..... | 20 | 82 | 5 | 17 | 6 | 5 | | | | Richland..... | 85 | 125 | 5 | | | | | | |
| Cass..... | 1 | 5 | 4 | 27 | 1 | 2 | 1 | 6 | | Rolette..... | 2,466 | 2,129 | 2,546 | | | | | | |
| Cavalier..... | 64 | 183 | 50 | | | | | | | Sargent..... | 29 | 49 | 42 | | | | | | |
| Dunn..... | 245 | 237 | | | | | | | | Sioux..... | 1,303 | | | 1 | | | | | |
| Eddy..... | 39 | | | | | | | | | Slope..... | | | | | | | | 13 | |
| Emmons..... | 7 | 6 | 14 | | | | | | | Stark..... | | | | | | 7 | 3 | 5 | |
| Grand Forks..... | 1 | 1 | | 14 | 3 | 7 | 3 | 2 | | Stutsman..... | | 3 | 2 | 12 | | | 3 | | |
| McKenzie..... | 11 | | | | | | | | | Towner..... | 14 | 3 | 1 | | | | | | |
| McLean..... | 660 | 630 | 980 | 1 | 1 | | | | | Walsh..... | 3 | 13 | | 7 | 1 | 2 | 1 | | |
| Mercer..... | 200 | 134 | 40 | | | | | | | Ward..... | 1 | | 9 | 15 | 13 | | 36 | 24 | 75 |
| Morton..... | 7 | 1,288 | 1,911 | 3 | | 12 | 1 | | | Wells..... | | | | 1 | 5 | 4 | 9 | 13 | 73 |
| Mountrail..... | 7 | 88 | | | | | | 2 | | Williams..... | 142 | 87 | 77 | 5 | 5 | 4 | 9 | 13 | 73 |
| | | | | | | | | | | All other counties..... | | 3 | | | 8 | 2 | | 1 | |

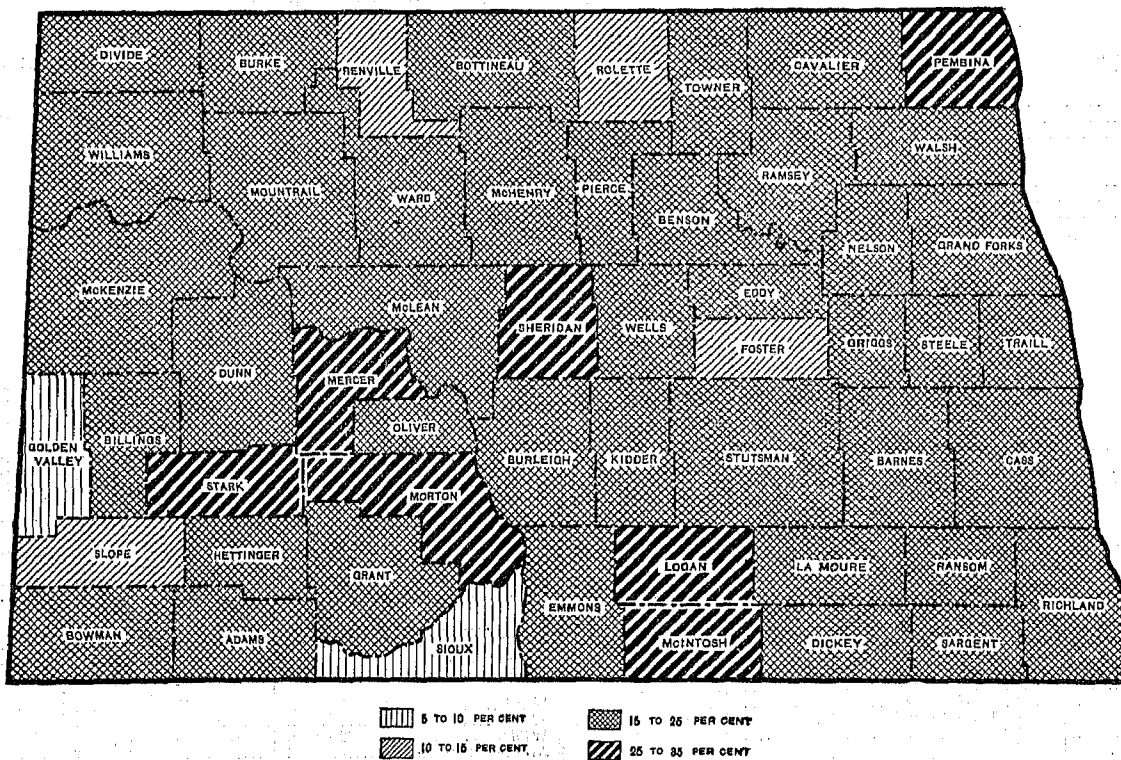
¹ Includes 1,905 Indians and 2 Chinese on that part of Standing Rock Indian Reservation in North Dakota, not returned by counties in 1900, but located in Morton County in 1910 and in Sioux County in 1920; see headnote, Table 9.

POPULATION—NORTH DAKOTA.

TABLE 8.—AGE, FOR CITIES OF 10,000 OR MORE: 1920.

| AGE PERIOD. | ALL CLASSES. | | NATIVE WHITE. | | FOREIGN-BORN WHITE. | | NEGRO. | | AGE PERIOD. | ALL CLASSES. | | NATIVE WHITE. | | FOREIGN-BORN WHITE. | | NEGRO. | |
|--------------------------|--------------|---------|---------------|---------|---------------------|---------|--------|---------|------------------------|--------------|---------|---------------|---------|---------------------|---------|--------|---------|
| | Male. | Female. | Male. | Female. | Male. | Female. | Male. | Female. | | Male. | Female. | Male. | Female. | Male. | Female. | Male. | Female. |
| Fargo | 10,680 | 11,331 | 8,547 | 9,556 | 2,080 | 1,758 | 25 | 17 | Minot | 5,238 | 5,238 | 4,308 | 4,515 | 852 | 690 | 36 | 29 |
| Under 5 years..... | 1,125 | 1,155 | 1,121 | 1,153 | 3 | 2 | | | Under 5 years..... | 607 | 615 | 599 | 609 | 7 | 6 | 1 | 1 |
| Under 1 year..... | 223 | 225 | 222 | 225 | | | | | Under 1 year..... | 109 | 121 | 108 | 121 | 1 | | | |
| 5 to 9 years..... | 1,001 | 1,035 | 983 | 1,023 | 17 | 11 | 1 | 1 | 5 to 9 years..... | 578 | 598 | 573 | 577 | 4 | 18 | 1 | 2 |
| 10 to 14 years..... | 824 | 881 | 800 | 855 | 24 | 25 | 1 | 1 | 10 to 14 years..... | 496 | 496 | 456 | 487 | 7 | 9 | 3 | 3 |
| 15 to 19 years..... | 752 | 1,057 | 706 | 1,008 | 42 | 47 | | 2 | 15 to 19 years..... | 334 | 515 | 318 | 492 | 14 | 23 | 2 | 2 |
| 20 to 44 years..... | 4,663 | 5,261 | 3,659 | 4,426 | 966 | 827 | 17 | 8 | 20 to 44 years..... | 2,355 | 2,327 | 1,797 | 1,947 | 500 | 352 | 23 | 26 |
| 45 years and over..... | 2,152 | 1,859 | 1,172 | 1,012 | 971 | 842 | 7 | 5 | 45 years and over..... | 874 | 677 | 539 | 393 | 318 | 282 | 6 | 1 |
| Age unknown..... | 113 | 83 | 106 | 79 | 7 | 4 | | | Age unknown..... | 24 | 10 | 21 | 10 | 2 | | | |
| 18 to 44 years..... | 4,986 | 5,778 | 3,961 | 4,923 | 986 | 847 | 17 | 8 | 18 to 44 years..... | 2,490 | 2,565 | 1,924 | 2,173 | 508 | 364 | 23 | 26 |
| 21 years and over..... | 6,768 | 6,929 | 4,787 | 5,205 | 1,984 | 1,651 | 24 | 13 | 21 years and over..... | 3,170 | 2,906 | 2,284 | 2,249 | 812 | 628 | 29 | 27 |
| Grand Forks | 6,700 | 7,310 | 5,086 | 5,795 | 1,583 | 1,501 | 17 | 10 | | | | | | | | | |
| Under 5 years..... | 698 | 776 | 694 | 766 | 3 | 7 | 1 | 3 | | | | | | | | | |
| Under 1 year..... | 138 | 146 | 138 | 146 | | | | | | | | | | | | | |
| 5 to 9 years..... | 708 | 730 | 686 | 702 | 19 | 28 | 3 | | | | | | | | | | |
| 10 to 14 years..... | 628 | 650 | 600 | 626 | 27 | 22 | 1 | 2 | | | | | | | | | |
| 15 to 19 years..... | 544 | 696 | 508 | 648 | 35 | 47 | 1 | | | | | | | | | | |
| 20 to 44 years..... | 2,616 | 3,126 | 1,930 | 2,463 | 668 | 659 | 7 | 1 | | | | | | | | | |
| 45 years and over..... | 1,452 | 1,297 | 619 | 558 | 826 | 735 | 4 | 4 | | | | | | | | | |
| Age unknown..... | 54 | 85 | 40 | 82 | 6 | 3 | | | | | | | | | | | |
| 18 to 44 years..... | 2,833 | 3,415 | 2,181 | 2,735 | 684 | 675 | 7 | 1 | | | | | | | | | |
| 21 years and over..... | 4,009 | 4,275 | 2,497 | 2,884 | 1,487 | 1,383 | 11 | 5 | | | | | | | | | |

PER CENT OF FOREIGN-BORN WHITE IN TOTAL POPULATION, BY COUNTIES: 1920.



POPULATION—NORTH DAKOTA.

TABLE 10.—COMPOSITION AND CHARACTERISTICS OF THE POPULATION, FOR CITIES OF 10,000 OR MORE: 1920.

| SUBJECT. | Fargo. | Grand Forks. | Minot. | SUBJECT. | Fargo. | Grand Forks. | Minot. |
|---|--------|--------------|--------|---|--------|--------------|--------|
| COLOR OR RACE, NATIVITY, AND SEX. | | | | AGE, SCHOOL ATTENDANCE, AND CITIZENSHIP—Continued. | | | |
| Total population..... | 21,961 | 14,010 | 10,476 | Females 21 years of age and over..... | 6,929 | 4,275 | 2,906 |
| Male..... | 10,020 | 6,700 | 5,238 | Native white—Native parentage..... | 2,282 | 1,084 | 1,179 |
| Female..... | 11,931 | 7,310 | 5,238 | Native white—Foreign or mixed parentage..... | 2,983 | 1,800 | 1,070 |
| Native white..... | 18,103 | 10,881 | 8,818 | Foreign-born white..... | 1,651 | 1,383 | 628 |
| Male..... | 8,547 | 5,086 | 4,303 | Naturalized..... | 1,124 | 1,004 | 495 |
| Female..... | 9,556 | 5,795 | 4,515 | First papers..... | 16 | 10 | 5 |
| Native white—Native parentage..... | 9,354 | 4,580 | 5,167 | Alien..... | 209 | 176 | 75 |
| Native white—Foreign parentage..... | 5,563 | 4,138 | 2,157 | Unknown..... | 302 | 184 | 53 |
| Native white—Mixed parentage..... | 3,186 | 2,168 | 1,494 | Negro..... | 13 | 5 | 27 |
| Foreign-born white..... | 3,788 | 3,084 | 1,542 | Males 18 to 44 years, inclusive..... | 4,986 | 2,833 | 2,490 |
| Male..... | 2,030 | 1,583 | 852 | Females 18 to 44 years, inclusive..... | 5,778 | 3,415 | 2,565 |
| Female..... | 1,758 | 1,501 | 690 | ILLITERACY. | | | |
| Negro..... | 42 | 27 | 65 | Total 10 years of age and over..... | 17,645 | 11,098 | 8,078 |
| Male..... | 25 | 17 | 36 | Number illiterate..... | 130 | 155 | 78 |
| Female..... | 17 | 10 | 29 | Per cent illiterate..... | 0.7 | 1.4 | 1.0 |
| Indian, Chinese, and Japanese..... | 28 | 18 | 51 | Per cent illiterate in 1910..... | 0.8 | 3.1 | 0.5 |
| Per cent native white..... | 82.4 | 77.7 | 84.2 | Native white..... | 13,823 | 8,033 | 6,460 |
| Per cent foreign-born white..... | 17.2 | 22.0 | 14.7 | Number illiterate..... | 15 | 18 | 7 |
| Per cent Negro..... | 0.2 | 0.2 | 0.6 | Per cent illiterate..... | 0.1 | 0.2 | 0.1 |
| 1910: Total population..... | 14,331 | 12,478 | 6,188 | Foreign-born white..... | 3,755 | 3,027 | 1,507 |
| Native white..... | 11,021 | 8,810 | 4,944 | Number illiterate..... | 105 | 137 | 68 |
| Foreign-born white..... | 3,200 | 3,607 | 1,150 | Per cent illiterate..... | 2.8 | 4.5 | 4.5 |
| Negro..... | 99 | 49 | 58 | Negro..... | 40 | 20 | 61 |
| Per cent native white..... | 76.9 | 70.7 | 79.9 | Number illiterate..... | 4 | | |
| Per cent foreign-born white..... | 22.3 | 28.9 | 18.6 | Per cent illiterate..... | (1) | | |
| Per cent Negro..... | 0.7 | 0.4 | 0.9 | Total 16 to 20 years, inclusive..... | 1,955 | 1,319 | 870 |
| AGE, SCHOOL ATTENDANCE, AND CITIZENSHIP. | | | | Number illiterate..... | 7 | 2 | 2 |
| Total under 7 years of age..... | 3,093 | 2,038 | 1,700 | Per cent illiterate..... | 0.4 | 0.2 | 0.2 |
| Total 7 to 13 years, inclusive..... | 2,585 | 1,800 | 1,430 | Illiterate males 21 years of age and over..... | 52 | 60 | 40 |
| Number attending school..... | 2,464 | 1,781 | 1,431 | Per cent of all males 21 years of age and over..... | 0.8 | 1.5 | 1.3 |
| Per cent attending school..... | 95.3 | 94.2 | 93.7 | Native white..... | 5 | 7 | 2 |
| Total 14 and 15 years..... | 631 | 479 | 350 | Foreign-born white..... | 40 | 53 | 36 |
| Number attending school..... | 577 | 431 | 331 | Negro..... | 3 | | |
| Per cent attending school..... | 91.4 | 90.0 | 94.6 | Illiterate females 21 years of age and over..... | 70 | 92 | 36 |
| Total 16 and 17 years..... | 681 | 517 | 300 | Per cent of all females 21 years of age and over..... | 1.0 | 2.2 | 1.2 |
| Number attending school..... | 417 | 324 | 192 | Native white..... | 7 | 0 | 5 |
| Per cent attending school..... | 61.2 | 62.7 | 62.7 | Foreign-born white..... | 62 | 83 | 30 |
| Total 18 to 20 years, inclusive..... | 1,274 | 802 | 564 | Negro..... | 1 | | |
| Number attending school..... | 379 | 270 | 138 | DWELLINGS AND FAMILIES. | | | |
| Per cent attending school..... | 29.7 | 33.7 | 24.5 | Dwellings, number..... | 3,787 | 2,742 | 2,097 |
| Males 21 years of age and over..... | 9,768 | 4,009 | 3,170 | Families, number..... | 4,877 | 3,189 | 2,344 |
| Native white—Native parentage..... | 2,455 | 1,084 | 1,280 | | | | |
| Native white—Foreign or mixed parentage..... | 2,332 | 1,413 | 1,004 | | | | |
| Foreign-born white..... | 1,934 | 1,487 | 812 | | | | |
| Naturalized..... | 1,249 | 1,052 | 566 | | | | |
| First papers..... | 185 | 118 | 69 | | | | |
| Alien..... | 193 | 146 | 127 | | | | |
| Unknown..... | 307 | 171 | 50 | | | | |
| Negro..... | 24 | 11 | 29 | | | | |

1 Per cent not shown, base being less than 100.

COMPOSITION AND CHARACTERISTICS.

TABLE 11.—COMPOSITION AND CHARACTERISTICS OF THE POPULATION, FOR PLACES OF 2,500 TO 10,000: 1920.

| SUBJECT. | Bis- marok. | Devils Lake. | Dick- inson. | Grafton. | James- town. | Mandan. | Valley City. | Wahpe- ton. | Willis- ton. |
|---|----------------|-----------------|-----------------|----------|-----------------|---------|-----------------|----------------|-----------------|
| COLOR OR RACE, NATIVITY, AND SEX. | | | | | | | | | |
| Total population..... | 7,122 | 5,140 | 4,122 | 2,513 | 6,627 | 4,336 | 4,686 | 3,069 | 4,178 |
| Male..... | 3,549 | 2,601 | 2,068 | 1,235 | 3,342 | 2,384 | 2,238 | 1,512 | 2,133 |
| Female..... | 3,573 | 2,539 | 2,054 | 1,277 | 3,285 | 1,952 | 2,448 | 1,557 | 2,045 |
| Native white—Native parentage..... | 3,205 | 1,932 | 1,318 | 659 | 3,256 | 1,755 | 1,779 | 1,315 | 2,128 |
| Native white—Foreign or mixed parentage..... | 2,761 | 2,103 | 1,742 | 1,256 | 2,322 | 1,542 | 2,011 | 1,209 | 1,402 |
| Foreign-born white..... | 1,086 | 1,019 | 1,055 | 586 | 1,021 | 1,022 | 890 | 450 | 618 |
| Negro..... | 41 | 42 | 4 | ..... | 13 | 13 | ..... | 10 | 15 |
| Indian, Chinese, and Japanese..... | 29 | 44 | 3 | 11 | 15 | 4 | 6 | 85 | 15 |
| AGE, SCHOOL ATTENDANCE, AND CITIZENSHIP. | | | | | | | | | |
| Total under 7 years of age..... | 1,140 | 792 | 719 | 325 | 1,043 | 736 | 677 | 435 | 728 |
| Total 7 to 13 years, inclusive..... | 897 | 855 | 687 | 331 | 938 | 598 | 662 | 412 | 581 |
| Number attending school..... | 801 | 816 | 581 | 293 | 899 | 569 | 643 | 409 | 563 |
| Total 14 and 15 years..... | 244 | 218 | 155 | 107 | 228 | 125 | 189 | 113 | 143 |
| Number attending school..... | 220 | 195 | 117 | 85 | 217 | 111 | 174 | 103 | 133 |
| Total 16 to 20 years, inclusive..... | 664 | 489 | 409 | 261 | 597 | 391 | 440 | 302 | 363 |
| Number attending school..... | 231 | 177 | 127 | 125 | 247 | 123 | 219 | 154 | 171 |
| Males 21 years of age and over..... | 2,115 | 1,446 | 1,071 | 719 | 1,096 | 1,425 | 1,318 | 926 | 1,238 |
| Native white—Native parentage..... | 856 | 472 | 340 | 115 | 862 | 530 | 389 | 311 | 470 |
| Native white—Foreign or mixed parentage..... | 687 | 460 | 252 | 302 | 605 | 338 | 480 | 370 | 335 |
| Foreign-born white..... | 532 | 485 | 476 | 299 | 512 | 547 | 443 | 242 | 320 |
| Naturalized..... | 340 | 304 | 363 | 203 | 379 | 335 | 335 | 206 | 245 |
| Negro..... | 20 | 26 | 2 | ..... | 4 | 6 | ..... | 2 | 5 |
| Females 21 years of age and over..... | 2,062 | 1,340 | 1,081 | 769 | 1,825 | 1,061 | 1,400 | 881 | 1,125 |
| Native white—Native parentage..... | 752 | 424 | 301 | 141 | 705 | 368 | 438 | 298 | 466 |
| Native white—Foreign or mixed parentage..... | 833 | 492 | 334 | 367 | 672 | 333 | 549 | 385 | 404 |
| Foreign-born white..... | 454 | 412 | 444 | 260 | 443 | 355 | 413 | 192 | 243 |
| Naturalized..... | 332 | 263 | 317 | 175 | 358 | 274 | 316 | 180 | 182 |
| Negro..... | 15 | 7 | 1 | ..... | 4 | 5 | ..... | 6 | 10 |
| ILLITERACY. | | | | | | | | | |
| Total 10 years of age and over..... | 5,571 | 3,971 | 3,091 | 2,063 | 5,182 | 3,322 | 3,717 | 2,491 | 3,172 |
| Number illiterate..... | 82 | 87 | 204 | 122 | 50 | 52 | 10 | 25 | 25 |
| Native whites 10 years of age and over..... | 4,433 | 2,903 | 2,049 | 1,473 | 4,146 | 2,305 | 2,833 | 1,951 | 2,540 |
| Number illiterate..... | 19 | 7 | 4 | 92 | 3 | 4 | 4 | 10 | 5 |
| Foreign-born whites 10 years of age and over..... | 1,072 | 991 | 1,037 | 581 | 1,014 | 1,001 | 878 | 450 | 605 |
| Number illiterate..... | 66 | 73 | 199 | 29 | 35 | 44 | 6 | 16 | 17 |
| Illiterate males 21 years of age and over..... | 35 | 33 | 69 | 38 | 27 | 36 | 7 | 13 | 11 |
| Illiterate females 21 years of age and over..... | 47 | 51 | 133 | 31 | 22 | 15 | 3 | 13 | 13 |
| DWELLINGS AND FAMILIES. | | | | | | | | | |
| Dwellings, number..... | 1,287 | 855 | 824 | 485 | 1,274 | 850 | 921 | 620 | 833 |
| Families, number..... | 1,481 | 1,131 | 877 | 502 | 1,485 | 918 | 1,081 | 640 | 908 |

POPULATION—NORTH DAKOTA.

TABLE 14.—MARITAL CONDITION OF THE POPULATION 15 YEARS OF AGE AND OVER, FOR THE STATE: 1920, 1910, AND 1900.

[Per cent not shown where base is less than 100.]

Table with multiple columns: Census Year, Class of Population, and Age Period. Main categories are Males 15 Years of Age and Over, and Females 15 Years of Age and Over. Sub-categories include Single, Married, Widowed, and Divorced. Data is provided for 1920, 1910, and 1900, broken down by age groups (15-19, 20-24, 25-34, 35-44, 45-54, 55-64, 65+).

1 Total includes persons whose marital condition was not reported.

2 Less than one-tenth of 1 per cent.

3 Totals include persons of unknown age.

COMPOSITION AND CHARACTERISTICS.

TABLE 15.—TOTAL, WHITE, AND COLORED POPULATION, WITH STATE OF BIRTH FOR NATIVES, FOR THE STATE: 1920.

| NATIVITY AND STATE OF BIRTH. | All classes: 1920 | White: 1920 | Colored: ¹ 1920 | PER CENT DISTRIBUTION OF TOTAL. | | | | | | PER CENT DIS- TRIBUTION OF NATIVE WHITE. | |
|---------------------------------|----------------------|----------------|-------------------------------|---------------------------------|-------|--------|-------|------------------|-------|--|-------|
| | | | | All classes. | | White. | | Colored. | | 1920 | 1910 |
| | | | | 1920 | 1910 | 1920 | 1910 | 1920 | 1910 | | |
| Total population..... | 646,872 | 639,954 | 6,918 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | | |
| Native..... | 515,009 | 508,451 | 6,558 | 79.6 | 72.9 | 79.5 | 72.0 | 94.8 | 93.1 | 100.0 | 100.0 |
| Born in..... | | | | | | | | | | | |
| North Dakota..... | 304,679 | 298,954 | 5,725 | 47.1 | 34.3 | 46.7 | 33.8 | 82.8 | 75.1 | 58.8 | 46.5 |
| Minnesota..... | 71,197 | 71,082 | 115 | 11.0 | 12.0 | 11.1 | 12.1 | 1.7 | 3.8 | 14.0 | 16.0 |
| Iowa..... | 27,631 | 27,606 | 25 | 4.3 | 5.3 | 4.3 | 5.4 | 0.4 | 0.2 | 5.4 | 7.4 |
| Wisconsin..... | 26,392 | 26,377 | 15 | 4.1 | 5.2 | 4.1 | 5.3 | 0.2 | 0.3 | 5.2 | 7.2 |
| Illinois..... | 15,838 | 15,828 | 12 | 2.4 | 2.9 | 2.5 | 3.0 | 0.2 | 0.5 | 3.1 | 4.1 |
| South Dakota..... | 15,517 | 15,372 | 145 | 2.4 | 2.2 | 2.4 | 2.2 | 2.1 | 3.8 | 3.0 | 3.0 |
| Indiana..... | 6,802 | 6,794 | 8 | 1.1 | 1.6 | 1.1 | 1.7 | 0.1 | 0.1 | 1.3 | 2.3 |
| Michigan..... | 5,104 | 5,096 | 8 | 0.8 | 1.2 | 0.8 | 1.2 | 0.1 | 0.1 | 1.0 | 1.6 |
| New York..... | 4,755 | 4,742 | 13 | 0.7 | 1.3 | 0.7 | 1.3 | 0.2 | 0.2 | 0.9 | 1.8 |
| Ohio..... | 4,385 | 4,370 | 15 | 0.7 | 1.1 | 0.7 | 1.1 | 0.2 | 0.5 | 0.9 | 1.6 |
| Missouri..... | 4,176 | 4,113 | 63 | 0.6 | 0.8 | 0.6 | 0.8 | 0.3 | 1.0 | 0.8 | 1.1 |
| Nebraska..... | 3,899 | 3,881 | 18 | 0.6 | 0.6 | 0.6 | 0.6 | 0.3 | 0.1 | 0.8 | 0.8 |
| Pennsylvania..... | 3,760 | 3,757 | 3 | 0.6 | 0.9 | 0.6 | 1.0 | (²) | 0.1 | 0.7 | 1.3 |
| Other states..... | 14,636 | 14,340 | 296 | 2.3 | 2.4 | 2.2 | 2.4 | 4.3 | 6.0 | 2.8 | 3.3 |
| Other native ³ | 6,238 | 6,136 | 102 | 1.0 | 1.0 | 1.0 | 1.0 | 1.5 | 1.4 | 1.2 | 1.3 |
| Foreign born..... | 131,863 | 131,503 | 360 | 20.4 | 27.1 | 20.5 | 27.4 | 5.2 | 6.9 | | |

¹ Comprises persons of Negro descent, Indians, Chinese, Japanese, and all other; see Table 1.

² Less than one-tenth of 1 per cent.

³ Comprises persons born in the United States, state of birth not reported; persons born in outlying possessions, or at sea under United States flag; and persons of foreign birth whose parents were American citizens temporarily absent from the United States.

TABLE 16.—COUNTRY OF BIRTH OF THE FOREIGN-BORN POPULATION, WITH CITIZENSHIP OF THE FOREIGN-BORN WHITE, FOR THE STATE: 1920.

[See also Tables 5, 6, and 12.]

| COUNTRY OF BIRTH. | TOTAL FOREIGN BORN. | | | | FOREIGN-BORN WHITE. | | | | | | FOREIGN-BORN WHITE 21 YEARS OF AGE AND OVER. | | |
|--------------------------|---------------------|--------------------------------|--------|---------|---------------------|--------------|-----------|----------------------|--------|---|---|--------------|-----------|
| | Both sexes. | | Male. | Female. | Total. | Naturalized. | | Having first papers. | Allen. | Citi- zen- ship not reported. | Total. | Naturalized. | |
| | Number. | Per cent distrib- ution. | | | | Number. | Per cent. | | | | | Number. | Per cent. |
| Total..... | 131,863 | 100.0 | 75,641 | 56,222 | 131,503 | 96,568 | 73.4 | 7,135 | 17,823 | 9,977 | 121,047 | 91,187 | 75.3 |
| Norway..... | 38,190 | 29.0 | 22,052 | 16,138 | 38,190 | 28,785 | 75.4 | 2,224 | 4,598 | 2,583 | 30,671 | 27,945 | 76.4 |
| Russia..... | 29,617 | 22.5 | 16,056 | 13,561 | 29,617 | 21,569 | 72.8 | 1,476 | 5,248 | 1,324 | 25,085 | 18,941 | 75.5 |
| Canada..... | 15,743 | 11.9 | 8,470 | 7,273 | 15,550 | 11,235 | 72.3 | 402 | 1,097 | 2,216 | 13,973 | 10,659 | 76.3 |
| French..... | 1,535 | 1.2 | 840 | 693 | 1,535 | 1,123 | 73.3 | 53 | 147 | 210 | 1,443 | 1,091 | 75.7 |
| Germany..... | 11,960 | 9.1 | 6,932 | 5,028 | 11,960 | 9,415 | 78.7 | 560 | 953 | 1,032 | 11,591 | 9,249 | 79.8 |
| Sweden..... | 10,543 | 8.0 | 6,641 | 3,902 | 10,543 | 7,863 | 74.6 | 713 | 1,213 | 784 | 10,107 | 7,679 | 76.0 |
| Denmark..... | 4,552 | 3.5 | 2,737 | 1,765 | 4,552 | 3,420 | 75.1 | 299 | 535 | 298 | 4,370 | 3,333 | 76.3 |
| Hungary..... | 2,519 | 1.9 | 1,352 | 1,167 | 2,519 | 1,908 | 75.8 | 124 | 316 | 81 | 2,242 | 1,801 | 80.3 |
| England..... | 2,289 | 1.7 | 1,370 | 919 | 2,287 | 1,576 | 68.9 | 127 | 301 | 283 | 2,162 | 1,552 | 71.8 |
| Poland..... | 2,230 | 1.7 | 1,384 | 852 | 2,236 | 1,310 | 58.6 | 235 | 553 | 133 | 2,046 | 1,226 | 59.9 |
| Austria..... | 2,059 | 1.6 | 1,220 | 839 | 2,059 | 1,343 | 65.2 | 180 | 377 | 159 | 1,909 | 1,266 | 66.3 |
| Czechoslovakia..... | 2,058 | 1.6 | 1,149 | 907 | 2,059 | 1,502 | 73.1 | 142 | 254 | 158 | 1,953 | 1,457 | 74.6 |
| Rumania..... | 1,811 | 1.4 | 997 | 814 | 1,811 | 1,382 | 76.3 | 79 | 289 | 61 | 1,486 | 1,180 | 79.8 |
| Ireland..... | 1,600 | 1.3 | 976 | 624 | 1,600 | 1,200 | 75.0 | 54 | 139 | 207 | 1,620 | 1,161 | 71.9 |
| Scotland..... | 1,229 | 0.9 | 700 | 529 | 1,229 | 841 | 68.4 | 53 | 179 | 156 | 1,147 | 820 | 71.5 |
| Finland..... | 1,108 | 0.8 | 649 | 459 | 1,108 | 716 | 64.6 | 91 | 213 | 83 | 1,022 | 664 | 65.0 |
| All other countries..... | 4,291 | 3.3 | 2,906 | 1,385 | 4,126 | 2,413 | 58.5 | 376 | 948 | 389 | 3,760 | 2,248 | 59.8 |

TABLE 17.—YEAR OF IMMIGRATION OF THE FOREIGN-BORN POPULATION, FOR THE STATE: 1920.

| SEX. | Total foreign born: 1920 | YEAR OF IMMIGRATION. | | | | | | | PER CENT OF TOTAL ARRIVING IN— | | | | | | |
|-----------------|--------------------------------|----------------------|---------------|---------------|---------------|---------------|---------------------|-----------------------|--------------------------------|---------------|---------------|---------------|---------------|------------------------|--------------------------|
| | | 1918- 1919 | 1916- 1917 | 1911- 1915 | 1906- 1910 | 1901- 1905 | 1900 or earlier. | Year not reported. | 1918- 1919 | 1916- 1917 | 1911- 1915 | 1906- 1910 | 1901- 1905 | 1900 or earlier. | Year not reported. |
| Both sexes..... | 131,863 | 603 | 978 | 9,483 | 15,978 | 19,526 | 65,523 | 19,792 | 0.5 | 0.7 | 7.2 | 12.1 | 14.8 | 49.7 | 15.0 |
| Male..... | 75,641 | 301 | 495 | 5,740 | 9,348 | 11,678 | 40,657 | 7,422 | 0.4 | 0.7 | 7.6 | 12.4 | 15.4 | 53.7 | 9.8 |
| Female..... | 56,222 | 302 | 483 | 3,743 | 6,630 | 7,848 | 24,866 | 12,370 | 0.5 | 0.9 | 6.6 | 11.8 | 14.0 | 44.2 | 22.0 |

TABLE 18.—FOREIGN-BORN WHITE POPULATION UNABLE TO SPEAK ENGLISH, FOR THE STATE: 1920.

| SEX. | FOREIGN-BORN WHITE 10 YEARS OF AGE AND OVER: 1920 | | | | FOREIGN-BORN WHITE 21 YEARS OF AGE AND OVER: 1920 | | | |
|-----------------|--|--------------------------|-----------|---------------|--|-----------|--|--|
| | Total number. | Unable to speak English. | | Total number. | Unable to speak English. | | | |
| | | Number. | Per cent. | | Number. | Per cent. | | |
| Both sexes..... | 129,951 | 10,189 | 7.8 | 121,047 | 10,021 | 8.3 | | |
| Male..... | 74,633 | 3,532 | 4.7 | 70,043 | 3,467 | 4.9 | | |
| Female..... | 55,318 | 6,657 | 12.0 | 51,004 | 6,554 | 12.8 | | |

POPULATION—NORTH DAKOTA.

TABLE 19.—SCHOOL ATTENDANCE, BY AGE PERIODS, FOR THE STATE: 1920. [See also Table 2. Per cent not shown where base is less than 100.]

Table with 14 columns: CLASS OF POPULATION AND SEX, Total number of persons attending school: 1920, PERSONS 7 TO 13 YEARS OF AGE, PERSONS 14 AND 15 YEARS OF AGE, PERSONS 16 AND 17 YEARS OF AGE, PERSONS 18 TO 20 YEARS OF AGE, OTHERS ATTENDING SCHOOL. Sub-columns include Total number, Attending school (Number, Per cent), Under 7 years of age, and 21 years of age and over.

TABLE 20.—SCHOOL ATTENDANCE, BY SINGLE YEARS FROM 5 TO 20, FOR THE STATE: 1920. [See also Table 2. Per cent not shown where base is less than 100.]

Table with 14 columns: YEAR OF AGE, All classes, Native white, Foreign-born white, Negro. Sub-columns include Both sexes, Male, Female, Native parentage, Foreign parentage, Mixed parentage, and Number/Per cent.

TABLE 21.—ILLITERACY OF THE POPULATION 10 YEARS OF AGE AND OVER, BY AGE PERIODS, FOR THE STATE: 1920. [See also Table 4. Per cent not shown where base is less than 100.]

Table with 14 columns: SEX AND AGE PERIOD, ALL CLASSES: 1920, NATIVE WHITE, FOREIGN-BORN WHITE, NEGRO. Sub-columns include Total number, Illiterate (Number, Per cent), and Total number/Illiterate (Number, Per cent).

TABLE 23.—OWNERSHIP OF HOMES, FOR COUNTIES AND PLACES HAVING 10,000 INHABITANTS OR MORE: 1920—Con.

| COUNTY OR CITY. | Total homes. | Rented. | OWNED. | | | | Tenure unknown. | COUNTY OR CITY. | Total homes. | Rented. | OWNED. | | | | Tenure unknown. |
|-----------------|--------------|---------|--------|-------|-------------|-----------|-----------------|------------------|--------------|---------|--------|-------|-------------|-----------|-----------------|
| | | | Total. | Free. | Encumbered. | Un-known. | | | | | Total. | Free. | Encumbered. | Un-known. | |
| COUNTIES—con. | | | | | | | | CITIES. | | | | | | | |
| Wahsh..... | 3,864 | 958 | 2,735 | 1,676 | 944 | 115 | 171 | Fargo..... | 4,377 | 2,632 | 2,139 | 936 | 1,045 | 158 | 106 |
| Ward..... | 6,243 | 2,806 | 3,273 | 1,209 | 1,873 | 101 | 104 | Grand Forks..... | 3,189 | 1,590 | 1,487 | 948 | 494 | 45 | 112 |
| Wells..... | 2,620 | 935 | 1,879 | 743 | 798 | 38 | 106 | Minot..... | 2,344 | 1,525 | 798 | 437 | 802 | 9 | 21 |
| Williams..... | 4,032 | 1,124 | 2,804 | 871 | 1,893 | 40 | 104 | | | | | | | | |

TABLE 24.—TOTAL MALES AND FEMALES 10 YEARS OF AGE AND OVER ENGAGED IN EACH SELECTED OCCUPATION, CLASSIFIED BY COLOR OR RACE, NATIVITY, AND PARENTAGE, AND AGE PERIODS, FOR THE STATE: 1920.

[Population 10 years of age and over—Total, 470,210; males, 251,089; females, 218,221. Persons gainfully occupied—Total, 207,062; males, 178,754; females, 28,328. Per cent of persons 10 years of age and over gainfully occupied—Total, 44.0; males, 70.9; females, 13.0.]

| SEX AND OCCUPATION. | Total. | COLOR OR RACE, NATIVITY, AND PARENTAGE. | | | | | AGE PERIODS. | | | | | |
|--|---------|---|-----------------------------|---------------------|--------|----------------------------------|-----------------|------------------|-----------------|--|-----------------|--------------------|
| | | Native white. | | Foreign-born white. | Negro. | Ind., Chi., Jap., and all other. | 10 to 17 years. | 18 and 19 years. | 20 to 24 years. | 25 to 44 years (includes age unknown). | 45 to 64 years. | 65 years and over. |
| | | Native parentage. | Foreign or mixed parentage. | | | | | | | | | |
| MALES | 178,754 | 43,462 | 69,862 | 63,759 | 243 | 1,428 | 6,892 | 7,091 | 22,698 | 181,722 | 44,827 | 5,524 |
| Agriculture, forestry, and animal husbandry | 116,467 | 23,728 | 46,501 | 45,005 | 81 | 1,142 | 5,735 | 5,297 | 15,392 | 57,034 | 29,204 | 3,795 |
| Farm foremen, general farms..... | 875 | 267 | 384 | 220 | 1 | 3 | ..... | 15 | 156 | 432 | 192 | 30 |
| Farm laborers (home farm)..... | 13,227 | 2,992 | 8,603 | 1,609 | 6 | 17 | 4,008 | 2,382 | 4,308 | 2,306 | 100 | 33 |
| Farm laborers (working out)..... | 22,413 | 5,402 | 10,131 | 6,574 | 16 | 290 | 1,658 | 2,579 | 6,387 | 9,089 | 2,376 | 324 |
| Farmers, general farms..... | 77,754 | 14,333 | 26,690 | 35,935 | 57 | 739 | ..... | 248 | 4,327 | 44,077 | 25,853 | 3,249 |
| Gardeners..... | 264 | 36 | 58 | 99 | ..... | 71 | ..... | 5 | 7 | 130 | 52 | 6 |
| Stock herders, drovers, and feeders..... | 403 | 160 | 147 | 86 | ..... | 10 | 46 | 48 | 106 | 152 | 45 | 6 |
| Stock raisers..... | 892 | 314 | 276 | 290 | 1 | 11 | ..... | 3 | 42 | 476 | 326 | 45 |
| All other occupations..... | 629 | 224 | 212 | 192 | ..... | 1 | 23 | 22 | 61 | 285 | 182 | 56 |
| Extraction of minerals | 1,298 | 367 | 371 | 552 | 3 | 3 | 41 | 51 | 187 | 799 | 206 | 12 |
| Coal mine operatives..... | 1,143 | 304 | 318 | 516 | 3 | 2 | 35 | 49 | 176 | 712 | 162 | 9 |
| All other occupations..... | 153 | 63 | 53 | 36 | ..... | 1 | 6 | 2 | 11 | 87 | 44 | 3 |
| Manufacturing and mechanical industries | 17,849 | 4,887 | 6,209 | 6,659 | 47 | 47 | 294 | 530 | 2,091 | 9,666 | 4,670 | 598 |
| Blacksmiths..... | 982 | 149 | 275 | 549 | 1 | 8 | ..... | 11 | 49 | 535 | 341 | 46 |
| Brick and stone masons..... | 317 | 58 | 69 | 189 | ..... | 1 | ..... | ..... | 6 | 169 | 129 | 23 |
| Builders and building contractors..... | 353 | 85 | 112 | 166 | ..... | ..... | ..... | ..... | 3 | 176 | 158 | 16 |
| Carpenters..... | 3,435 | 725 | 1,048 | 1,654 | 1 | 7 | 7 | 54 | 218 | 1,853 | 1,143 | 160 |
| Compositors, linotypers, and typesetters..... | 408 | 173 | 161 | 74 | ..... | ..... | 8 | 19 | 68 | 234 | 73 | 6 |
| Electricians..... | 434 | 164 | 193 | 75 | 2 | ..... | 14 | 103 | 277 | 37 | 3 | ..... |
| Engineers (stationary)..... | 774 | 266 | 319 | 182 | 3 | 4 | 7 | 27 | 105 | 410 | 200 | 16 |
| Laborers (not otherwise specified): | | | | | | | | | | | | |
| Building, general, and not specified laborers..... | 3,277 | 913 | 1,166 | 1,147 | 27 | 19 | 113 | 155 | 472 | 1,535 | 864 | 133 |
| Food industries..... | 251 | 81 | 75 | 93 | 2 | ..... | 18 | 15 | 51 | 120 | 42 | 5 |
| Other industries..... | 556 | 152 | 202 | 202 | ..... | ..... | 32 | 39 | 90 | 275 | 112 | 8 |
| Machinists..... | 945 | 319 | 430 | 193 | 2 | 1 | ..... | 26 | 195 | 606 | 113 | 5 |
| Managers and superintendents (manufacturing)..... | 334 | 134 | 127 | 73 | ..... | ..... | ..... | ..... | 24 | 207 | 97 | 6 |
| Manufacturers..... | 204 | 102 | 93 | 99 | ..... | ..... | ..... | ..... | 14 | 150 | 121 | 9 |
| Mechanics (not otherwise specified)..... | 1,242 | 445 | 677 | 216 | 3 | 1 | ..... | 54 | 271 | 823 | 88 | 6 |
| Painters, glaziers, and varnishers (building)..... | 666 | 201 | 189 | 276 | ..... | ..... | 3 | 10 | 41 | 356 | 214 | 42 |
| Plumbers and gas and steam fitters..... | 388 | 123 | 171 | 93 | 1 | ..... | ..... | 8 | 27 | 260 | 89 | 4 |
| Semiskilled operatives (not otherwise specified): | | | | | | | | | | | | |
| Food industries..... | 286 | 81 | 108 | 97 | ..... | ..... | 14 | 18 | 50 | 170 | 34 | ..... |
| Iron and steel industries..... | 342 | 91 | 126 | 125 | ..... | ..... | 8 | 16 | 61 | 190 | 65 | 2 |
| Other industries..... | 485 | 120 | 167 | 195 | ..... | ..... | 19 | 22 | 50 | 227 | 145 | 32 |
| Shoemakers and cobblers (not in factory)..... | 243 | 20 | 36 | 186 | ..... | ..... | 1 | 3 | 6 | 100 | 107 | 24 |
| Tailors..... | 291 | 34 | 51 | 205 | 1 | ..... | 2 | 2 | 13 | 169 | 94 | 14 |
| All other occupations..... | 1,546 | 446 | 514 | 580 | 4 | 2 | 60 | 37 | 174 | 828 | 404 | 43 |
| Transportation | 11,510 | 4,044 | 3,975 | 3,421 | 26 | 44 | 264 | 420 | 1,496 | 6,607 | 2,495 | 228 |
| Brakemen..... | 640 | 335 | 229 | 74 | 2 | ..... | ..... | 24 | 151 | 426 | 37 | 2 |
| Conductors (steam railroad)..... | 387 | 211 | 131 | 45 | ..... | ..... | ..... | 4 | 4 | 283 | 94 | 6 |
| Draymen, teamsters, and expressmen..... | 1,451 | 552 | 563 | 364 | 2 | 10 | 47 | 64 | 227 | 793 | 317 | 33 |
| Foremen and overseers (steam railroad)..... | 754 | 140 | 210 | 401 | 1 | 2 | ..... | 4 | 32 | 490 | 240 | 12 |
| Garage keepers and managers..... | 401 | 124 | 180 | 96 | 1 | ..... | ..... | 1 | 27 | 285 | 86 | 2 |
| Laborers: | | | | | | | | | | | | |
| Steam railroad..... | 2,685 | 577 | 663 | 1,381 | 14 | 30 | 188 | 162 | 367 | 1,240 | 705 | 73 |
| Other transportation industries..... | 304 | 83 | 134 | 85 | 2 | ..... | 8 | 19 | 66 | 198 | 57 | 16 |
| Livery stable keepers and managers..... | 250 | 75 | 89 | 85 | ..... | ..... | ..... | ..... | 13 | 115 | 102 | 18 |
| Locomotive engineers..... | 538 | 240 | 175 | 128 | ..... | ..... | ..... | ..... | 4 | 373 | 155 | 6 |
| Locomotive firemen..... | 445 | 205 | 153 | 90 | ..... | ..... | ..... | ..... | 12 | 335 | 8 | ..... |
| Mail carriers..... | 737 | 282 | 314 | 140 | ..... | ..... | ..... | ..... | 5 | 445 | 185 | 16 |
| Switchmen and flagmen (steam railroad)..... | 277 | 138 | 95 | 62 | 1 | ..... | ..... | ..... | 15 | 74 | 40 | 10 |
| Telegraph operators..... | 360 | 101 | 151 | 27 | ..... | ..... | ..... | ..... | 6 | 180 | 34 | 1 |
| Ticket and station agents..... | 395 | 178 | 178 | 29 | ..... | ..... | ..... | ..... | 11 | 65 | 61 | 3 |
| All other occupations..... | 1,844 | 713 | 699 | 429 | 3 | ..... | 62 | 84 | 249 | 1,061 | 369 | 29 |

¹ Includes 365 males of unknown age.
² Teamsters in agriculture, forestry, and the extraction of minerals are classified with the other workers in those industries, respectively; and drivers for bakeries and laundries are classified with deliverymen in trade.

COMPOSITION AND CHARACTERISTICS.

TABLE 24.—TOTAL MALES AND FEMALES 10 YEARS OF AGE AND OVER ENGAGED IN EACH SELECTED OCCUPATION, CLASSIFIED BY COLOR OR RACE, NATIVITY, AND PARENTAGE, AND AGE PERIODS, FOR THE STATE: 1920—Con.

| SEX AND OCCUPATION. | Total. | COLOR OR RACE, NATIVITY, AND PARENTAGE. | | | | | AGE PERIODS. | | | | | |
|---|--------|---|-----------------------------|---------------------|--------|----------------------------------|-----------------|------------------|-----------------|--|-----------------|--------------------|
| | | Native white. | | Foreign-born white. | Negro. | Ind., Chi., Jap., and all other. | 10 to 17 years. | 18 and 19 years. | 20 to 24 years. | 25 to 44 years (includes age unknown). | 45 to 64 years. | 65 years and over. |
| | | Native parentage. | Foreign or mixed parentage. | | | | | | | | | |
| MALES—Continued. | | | | | | | | | | | | |
| Trade..... | 16,772 | 5,126 | 7,152 | 4,468 | 15 | 11 | 264 | 312 | 1,602 | 9,759 | 4,474 | 361 |
| Bankers and bank officials..... | 1,756 | 559 | 912 | 285 | | | | | 202 | 1,197 | 341 | 16 |
| Clerks in stores ¹ | 944 | 281 | 499 | 192 | | 2 | 67 | 83 | 231 | 448 | 107 | 8 |
| Commercial travelers..... | 1,030 | 443 | 387 | 200 | | | | 5 | 53 | 673 | 283 | 16 |
| Deliverymen..... | 318 | 121 | 137 | 68 | | 2 | 36 | 25 | 63 | 150 | 41 | 3 |
| Insurance agents..... | 451 | 200 | 167 | 84 | | | | | 30 | 287 | 121 | 13 |
| Laborers in coal and lumber yards, warehouses, etc..... | 455 | 136 | 176 | 141 | 2 | | 12 | 20 | 67 | 248 | 99 | 9 |
| Proprietors, officials, and managers (elevators)..... | 607 | 166 | 263 | 178 | | | | 1 | 23 | 384 | 188 | 11 |
| Real estate agents and officials..... | 579 | 243 | 197 | 139 | | 1 | | | 9 | 259 | 272 | 39 |
| Retail dealers ² | 6,602 | 1,598 | 2,694 | 2,341 | 8 | 1 | 3 | 14 | 291 | 3,875 | 2,228 | 188 |
| Salesmen (stores)..... | 3,016 | 975 | 1,411 | 621 | 4 | 5 | 92 | 143 | 530 | 1,685 | 531 | 35 |
| All other occupations..... | 1,014 | 404 | 379 | 229 | 1 | 1 | 54 | 21 | 100 | 558 | 263 | 23 |
| Public service (not elsewhere classified)..... | 1,408 | 497 | 542 | 384 | 2 | 13 | 10 | 30 | 135 | 595 | 543 | 95 |
| Officials and inspectors (city and county)..... | 357 | 111 | 149 | 97 | | | | | 17 | 167 | 145 | 28 |
| Postmasters..... | 280 | 98 | 96 | 66 | | | | | 1 | 116 | 105 | 23 |
| All other occupations..... | 791 | 288 | 297 | 221 | 2 | 13 | 10 | 29 | 103 | 312 | 293 | 44 |
| Professional service..... | 4,907 | 1,906 | 1,739 | 1,246 | 4 | 12 | 21 | 101 | 493 | 2,818 | 1,310 | 164 |
| Clergymen..... | 944 | 171 | 232 | 532 | 2 | 7 | | | 27 | 496 | 380 | 41 |
| College presidents and professors ³ | 183 | 117 | 55 | 11 | | | | | 6 | 121 | 52 | 4 |
| Dentists..... | 257 | 113 | 113 | 31 | | | | | 20 | 192 | 41 | 4 |
| Lawyers, judges, and justices..... | 626 | 272 | 246 | 108 | | | | | 10 | 365 | 211 | 40 |
| Physicians and surgeons..... | 532 | 195 | 187 | 180 | | | | | 7 | 313 | 194 | 18 |
| Teachers (school)..... | 1,002 | 462 | 454 | 84 | | 2 | 8 | 79 | 271 | 536 | 100 | 8 |
| Technical engineers..... | 235 | 112 | 95 | 28 | | | | | 43 | 157 | 32 | 3 |
| All other occupations..... | 1,128 | 464 | 387 | 272 | 2 | 3 | 13 | 22 | 109 | 638 | 300 | 46 |
| Domestic and personal service..... | 4,260 | 1,404 | 1,368 | 1,275 | 63 | 150 | 127 | 115 | 397 | 2,179 | 1,243 | 199 |
| Barbers, hairdressers, and manicurists..... | 871 | 354 | 361 | 145 | 11 | | 6 | 20 | 92 | 616 | 133 | 4 |
| Billiard and pool room keepers..... | 483 | 152 | 186 | 145 | | | | 4 | 41 | 290 | 135 | 13 |
| Hotel keepers and managers..... | 403 | 122 | 116 | 103 | | 2 | | 5 | 160 | 214 | 23 | 23 |
| Janitors and sextons..... | 614 | 169 | 136 | 295 | 11 | 3 | 11 | 5 | 25 | 175 | 311 | 87 |
| Restaurant, café, and lunch room keepers..... | 348 | 101 | 115 | 107 | 2 | 23 | | 3 | 24 | 205 | 104 | 12 |
| Servants..... | 745 | 226 | 225 | 220 | 10 | 64 | 81 | 40 | 109 | 344 | 149 | 22 |
| All other occupations..... | 796 | 280 | 220 | 200 | 29 | 58 | 20 | 42 | 101 | 389 | 197 | 38 |
| Clerical occupations..... | 4,295 | 1,533 | 2,005 | 749 | 2 | 6 | 136 | 235 | 905 | 2,265 | 682 | 72 |
| Accountants and auditors..... | 238 | 105 | 93 | 36 | | 4 | | 3 | 33 | 150 | 46 | 6 |
| Agents..... | 1,274 | 353 | 574 | 347 | | | 2 | 5 | 82 | 813 | 347 | 25 |
| Bookkeepers and cashiers..... | 953 | 338 | 501 | 113 | | 1 | 14 | 59 | 306 | 490 | 73 | 11 |
| Clerks (except clerks in stores)..... | 1,546 | 627 | 694 | 222 | 2 | 1 | 49 | 140 | 429 | 730 | 173 | 25 |
| All other occupations..... | 284 | 110 | 143 | 31 | | | 71 | 28 | 55 | 82 | 43 | 5 |
| FEMALES..... | 28,328 | 8,709 | 14,375 | 5,132 | 45 | 67 | 2,047 | 3,383 | 8,746 | 10,362 | 3,377 | 413 |
| Agriculture, forestry, and animal husbandry..... | 3,429 | 508 | 1,410 | 1,473 | 3 | 25 | 663 | 242 | 323 | 873 | 1,137 | 191 |
| Farm laborers (home farm)..... | 1,136 | 150 | 752 | 227 | | 1 | 600 | 174 | 184 | 145 | 20 | 4 |
| Farm laborers (working out)..... | 340 | 71 | 182 | 84 | | 3 | 57 | 63 | 90 | 89 | 36 | 5 |
| Farmers, general farms..... | 1,765 | 249 | 418 | 1,064 | 3 | 31 | | | 41 | 574 | 984 | 166 |
| All other occupations..... | 188 | 32 | 58 | 98 | | | 6 | 5 | 8 | 65 | 88 | 16 |
| Extraction of minerals (all occupations)..... | 2 | | 2 | | | | | | 1 | 1 | | |
| Manufacturing and mechanical industries..... | 1,338 | 247 | 717 | 265 | 4 | 5 | 53 | 66 | 204 | 772 | 217 | 26 |
| Dressmakers and seamstresses (not in factory)..... | 819 | 187 | 456 | 169 | 3 | 4 | 9 | 24 | 119 | 500 | 147 | 20 |
| Semiskilled operatives (not otherwise specified)..... | 176 | 56 | 93 | 27 | | | 23 | 21 | 31 | 82 | 17 | 2 |
| All other occupations..... | 343 | 104 | 168 | 69 | 1 | 1 | 21 | 21 | 54 | 190 | 53 | 4 |
| Transportation..... | 952 | 400 | 479 | 72 | 1 | | 96 | 176 | 385 | 267 | 28 | |
| Telephone operators..... | 754 | 316 | 386 | 52 | | | 90 | 148 | 322 | 179 | 15 | |
| All other occupations..... | 198 | 84 | 93 | 20 | 1 | | 6 | 28 | 63 | 88 | 13 | |
| Trade..... | 2,180 | 699 | 1,219 | 261 | | 1 | 165 | 274 | 645 | 938 | 149 | 9 |
| Clerks in stores ¹ | 720 | 241 | 399 | 79 | | 1 | 81 | 113 | 253 | 247 | 25 | 1 |
| Retail dealers ² | 168 | 52 | 69 | 47 | | | 3 | 18 | 18 | 98 | 43 | 6 |
| Saleswomen (stores)..... | 1,132 | 349 | 679 | 124 | | | 82 | 151 | 365 | 506 | 47 | 1 |
| All other occupations..... | 140 | 57 | 72 | 11 | | | 2 | 7 | 9 | 87 | 34 | 1 |

¹ Many of the "Clerks in stores" probably are "Salesmen."
² Includes, also, managers and superintendents of retail stores.

³ Probably includes some teachers in schools below collegiate rank.
⁴ Includes 100 females of unknown age.

POPULATION—NORTH DAKOTA.

TABLE 24.—TOTAL MALES AND FEMALES 10 YEARS OF AGE AND OVER ENGAGED IN EACH SELECTED OCCUPATION, CLASSIFIED BY COLOR OR RACE, NATIVITY, AND PARENTAGE, AND AGE PERIODS, FOR THE STATE: 1920—Con.

| SEX AND OCCUPATION. | Total. | COLOR OR RACE, NATIVITY, AND PARENTAGE. | | | | | AGE PERIODS. | | | | | |
|--|--------|---|-----------------------------|---------------------|--------|----------------------------------|-----------------|------------------|-----------------|--|-----------------|--------------------|
| | | Native white. | | Foreign-born white. | Negro. | Ind., Chi., Jap., and all other. | 10 to 17 years. | 18 and 19 years. | 20 to 24 years. | 25 to 44 years (includes age unknown). | 45 to 64 years. | 65 years and over. |
| | | Native parentage. | Foreign or mixed parentage. | | | | | | | | | |
| FEMALES—Continued. | | | | | | | | | | | | |
| Public service (not elsewhere classified)..... | 286 | 121 | 132 | 33 | | | 6 | 40 | 182 | 58 | | |
| Postmistresses..... | 187 | 81 | 89 | 17 | | | 6 | 39 | 101 | 41 | | |
| All other occupations..... | 99 | 40 | 43 | 16 | | | | 1 | 81 | 17 | | |
| Professional service..... | 3,111 | 3,342 | 4,259 | 507 | 1 | 2 | 109 | 1,180 | 3,662 | 2,820 | 322 | |
| Musicians and teachers of music..... | 254 | 115 | 122 | 17 | | | 5 | 13 | 84 | 133 | 17 | |
| Teachers (school)..... | 6,547 | 2,769 | 3,461 | 314 | 1 | 2 | 89 | 1,089 | 3,131 | 2,079 | 186 | |
| Trained nurses..... | 784 | 293 | 463 | 118 | | | | 72 | 334 | 326 | 51 | |
| All other occupations..... | 526 | 255 | 213 | 58 | | | 24 | 35 | 113 | 282 | 68 | |
| Domestic and personal service..... | 8,908 | 2,079 | 4,418 | 2,349 | 36 | 24 | 852 | 1,043 | 2,119 | 3,331 | 1,395 | |
| Boarding and lodging house keepers..... | 351 | 98 | 124 | 129 | | | | | 2 | 151 | 178 | |
| Hotel keepers and managers..... | 148 | 44 | 42 | 60 | | | | | 2 | 68 | 75 | |
| Housekeepers and stewardesses..... | 1,804 | 425 | 818 | 548 | 5 | 3 | | 97 | 345 | 876 | 422 | |
| Laundresses (not in laundry)..... | 418 | 88 | 118 | 229 | 1 | 2 | 10 | | 32 | 198 | 155 | |
| Laundry operatives..... | 201 | 54 | 93 | 51 | 3 | | 44 | 33 | 47 | 56 | 20 | |
| Nurses (not trained)..... | 473 | 140 | 222 | 111 | | | | 23 | 82 | 240 | 117 | |
| Servants..... | 4,627 | 984 | 2,521 | 1,089 | 19 | 14 | 681 | 719 | 1,316 | 1,474 | 383 | |
| Waitresses..... | 696 | 205 | 401 | 86 | 4 | | 114 | 153 | 264 | 154 | 11 | |
| All other occupations..... | 190 | 61 | 79 | 46 | 4 | | 3 | 7 | 29 | 114 | 34 | |
| Clerical occupations..... | 3,124 | 1,213 | 1,739 | 172 | | | 109 | 395 | 1,368 | 1,178 | 71 | |
| Bookkeepers and cashiers..... | 900 | 308 | 527 | 65 | | | 29 | 116 | 336 | 400 | 17 | |
| Clerks (except clerks in stores)..... | 750 | 303 | 396 | 51 | | | 34 | 98 | 315 | 269 | 36 | |
| Stenographers and typists..... | 1,374 | 560 | 766 | 48 | | | 41 | 178 | 678 | 464 | 12 | |
| All other occupations..... | 100 | 42 | 50 | 8 | | | 5 | 5 | 39 | 45 | 6 | |

TABLE 25.—WOMEN 15 YEARS OF AGE AND OVER IN EACH PRINCIPAL CLASS OF THE POPULATION ENGAGED IN GAINFUL OCCUPATIONS, CLASSIFIED BY MARITAL CONDITION, WITH A DISTRIBUTION OF THE MARRIED BY AGE PERIODS, FOR THE STATE: 1920.

| CLASS OF POPULATION. | Aggregate. | MARRIED. | | | | | Single, widowed, divorced, and unknown. | |
|--|------------|----------|-----------------|-----------------|-----------------|-----------------|---|---------------------------------|
| | | Total. | 15 to 19 years. | 20 to 24 years. | 25 to 34 years. | 35 to 44 years. | | 45 years and over. ¹ |
| All classes..... | 27,971 | 3,910 | 107 | 594 | 1,272 | 1,015 | 922 | 24,061 |
| Native white—Native parentage..... | 8,647 | 1,494 | 49 | 269 | 500 | 332 | 294 | 7,153 |
| Native white—Foreign or mixed parentage..... | 14,115 | 1,476 | 47 | 265 | 567 | 346 | 251 | 12,639 |
| Foreign-born white..... | 5,097 | 916 | 10 | 57 | 199 | 281 | 369 | 4,181 |
| Negro..... | 45 | 11 | | 1 | 3 | 2 | 5 | 34 |
| Indian..... | 67 | 13 | | 1 | 3 | 4 | 3 | 54 |
| Chinese, Japanese, and all other..... | | | | | | | | |

¹ Includes age unknown.

COMPOSITION AND CHARACTERISTICS.

SUPPLEMENTAL TABLES FOR INDIAN POPULATION.

AGE, FOR THE STATE: 1920 AND 1910.

| AGE PERIOD. | INDIANS. | | | | | | | | | AGE PERIOD. | INDIANS. | | | | | | | | |
|---------------------|--------------|-------|--------|----------------|-------|--------|----------------|-------|--------|-----------------------|--------------|-------|--------|----------------|------|--------|----------------|------|--------|
| | Number: 1920 | | | Per cent: 1920 | | | Per cent: 1910 | | | | Number: 1920 | | | Per cent: 1920 | | | Per cent: 1910 | | |
| | Total | Male | Female | Total | Male | Female | Total | Male | Female | | Total | Male | Female | Total | Male | Female | Total | Male | Female |
| All ages..... | 6,254 | 3,183 | 3,071 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 20 to 44 years..... | 1,819 | 952 | 867 | 29.1 | 29.9 | 28.2 | 27.9 | 29.4 | 26.4 |
| Under 5 years..... | 898 | 420 | 469 | 14.4 | 13.5 | 15.3 | 14.6 | 13.8 | 15.5 | 45 years and over.... | 1,283 | 693 | 590 | 20.5 | 21.8 | 19.2 | 19.9 | 19.7 | 20.1 |
| Under 1 year..... | 151 | 68 | 83 | 2.4 | 2.1 | 2.7 | 3.1 | 3.2 | 3.0 | Ago unknown..... | 35 | 19 | 16 | 0.6 | 0.6 | 0.5 | 0.2 | 0.2 | 0.3 |
| 5 to 9 years..... | 815 | 393 | 422 | 13.0 | 12.3 | 13.7 | 13.6 | 12.8 | 14.4 | 18 to 44 years..... | 2,063 | 1,070 | 993 | 33.0 | 33.6 | 32.3 | 31.8 | 33.6 | 30.1 |
| 10 to 14 years..... | 802 | 398 | 404 | 12.8 | 12.5 | 13.2 | 12.8 | 12.4 | 13.3 | 21 years and over.... | 3,022 | 1,613 | 1,409 | 48.3 | 50.7 | 45.9 | 46.5 | 48.1 | 45.0 |
| 15 to 19 years..... | 602 | 299 | 303 | 9.6 | 9.4 | 9.9 | 10.9 | 11.7 | 10.1 | | | | | | | | | | |

SCHOOL ATTENDANCE, FOR THE STATE: 1920 AND 1910.

| AGE PERIOD. | INDIANS: 1920 | | | | INDIANS: 1910 | | | | AGE PERIOD. | INDIANS: 1920 | | | | INDIANS: 1910 | | | |
|-------------------------------|---------------|-------------------|-----------|---------------|-------------------|-----------|----------------------|-------------------|-------------|---------------|-------------------|---------|---------------|-------------------|---------|-----------|--|
| | Total number. | Attending school. | | Total number. | Attending school. | | Total number. | Attending school. | | Total number. | Attending school. | | Total number. | Attending school. | | | |
| | | Number. | Per cent. | | Number. | Per cent. | | Number. | | | Per cent. | Number. | | Per cent. | Number. | Per cent. | |
| 5 to 20 years, inclusive..... | 2,334 | 1,007 | 43.1 | 2,519 | 1,444 | 57.3 | 7 to 13 years..... | 1,142 | 625 | 54.7 | 1,209 | 840 | 70.2 | | | | |
| Male..... | 1,141 | 470 | 41.2 | 1,220 | 710 | 58.3 | 14 and 15 years..... | 255 | 148 | 58.0 | 328 | 209 | 63.0 | | | | |
| Female..... | 1,193 | 537 | 45.0 | 1,290 | 728 | 56.4 | 16 and 17 years..... | 243 | 123 | 50.6 | 280 | 175 | 62.5 | | | | |
| 5 and 6 years..... | 335 | 30 | 9.0 | 350 | 48 | 13.7 | 18 to 20 years..... | 350 | 81 | 22.0 | 352 | 103 | 29.3 | | | | |

ILLITERACY, FOR THE STATE: 1920 AND 1910.

| AGE PERIOD. | INDIANS: 1920 | | | | INDIANS: 1910 | | | | AGE PERIOD. | INDIANS: 1920 | | | | INDIANS: 1910 | | | |
|------------------------|---------------|-------------|-----------|---------------|---------------|-----------|------------------------|-------------|-------------|---------------|-------------|---------|---------------|---------------|---------|-----------|--|
| | Total number. | Illiterate. | | Total number. | Illiterate. | | Total number. | Illiterate. | | Total number. | Illiterate. | | Total number. | Illiterate. | | | |
| | | Number. | Per cent. | | Number. | Per cent. | | Number. | | | Per cent. | Number. | | Per cent. | Number. | Per cent. | |
| 10 years and over..... | 4,541 | 1,344 | 29.6 | 4,654 | 2,142 | 46.0 | 21 years and over..... | 3,022 | 1,228 | 40.6 | 3,019 | 1,896 | 62.8 | | | | |
| Male..... | 2,361 | 688 | 29.1 | 2,366 | 1,031 | 43.6 | Male..... | 1,613 | 622 | 38.6 | 1,551 | 915 | 59.0 | | | | |
| Female..... | 2,180 | 656 | 30.1 | 2,288 | 1,111 | 48.6 | Female..... | 1,409 | 606 | 43.0 | 1,468 | 981 | 66.8 | | | | |
| 10 to 20 years..... | 1,519 | 116 | 7.6 | 1,635 | 246 | 15.0 | | | | | | | | | | | |
| Male..... | 748 | 66 | 8.8 | 815 | 110 | 14.2 | | | | | | | | | | | |
| Female..... | 771 | 50 | 6.5 | 820 | 130 | 15.9 | | | | | | | | | | | |

SEX, ILLITERACY, AND VOTING AGE, FOR COUNTIES: 1920.

[Per cent not shown where base is less than 100.]

| COUNTY. | TOTAL INDIANS. | | | | INDIANS 10 YEARS OF AGE AND OVER. | | | INDIANS 21 YEARS OF AGE AND OVER. | | | |
|---------------------------------------|----------------|-------------------------------|-------|---------|-----------------------------------|-------------|-----------|-----------------------------------|--------------------|---------------|--------------------|
| | Both sexes. | Per cent of total population. | Male. | Female. | Total number. | Illiterate. | | Male. | | Female. | |
| | | | | | | Number. | Per cent. | Total number. | Number illiterate. | Total number. | Number illiterate. |
| The state..... | 6,254 | 1.0 | 3,183 | 3,071 | 4,541 | 1,344 | 29.6 | 1,613 | 622 | 1,409 | 606 |
| Benson..... | 812 | 6.2 | 425 | 387 | 605 | 272 | 45.0 | 229 | 111 | 199 | 120 |
| Cavaller..... | 64 | 0.4 | 36 | 28 | 47 | 18 | 38.3 | 18 | 8 | 13 | 6 |
| Dunn..... | 245 | 2.8 | 130 | 115 | 173 | 3 | 1.7 | 63 | 3 | 61 | 5 |
| Eddy..... | 39 | 0.6 | 21 | 18 | 25 | 6 | 24.0 | 9 | 1 | 9 | 5 |
| McLean..... | 660 | 3.8 | 332 | 328 | 494 | 174 | 35.2 | 184 | 79 | 164 | 79 |
| Mercer..... | 200 | 2.4 | 89 | 111 | 143 | ..... | ..... | 49 | ..... | 42 | ..... |
| Pembina..... | 98 | 0.6 | 53 | 45 | 61 | 19 | 31.1 | 20 | 9 | 14 | 5 |
| Ramsey..... | 31 | 0.2 | 15 | 16 | 20 | 5 | 25.0 | 6 | 2 | 5 | 2 |
| Richard..... | 85 | 0.4 | 22 | 63 | 81 | ..... | ..... | 1 | ..... | ..... | ..... |
| Rolette..... | 2,466 | 24.5 | 1,268 | 1,198 | 1,744 | 469 | 26.9 | 596 | 244 | 515 | 183 |
| Sargent..... | 29 | 0.3 | 17 | 12 | 22 | 14 | 63.6 | 12 | 9 | 6 | 5 |
| Sioux..... | 1,308 | 39.4 | 655 | 648 | 983 | 337 | 34.3 | 374 | 144 | 335 | 183 |
| Williams..... | 142 | 0.8 | 81 | 61 | 87 | 22 | 25.3 | 31 | 9 | 24 | 11 |
| All other counties ¹ | 80 | (²) | 39 | 41 | 56 | 5 | 8.9 | 21 | 8 | 22 | 2 |

¹ Comprises those counties in which there are fewer than 25 Indians.

² Less than one-tenth of 1 per cent.

AGRICULTURE—NORTH DAKOTA.

INTRODUCTION.

In the following pages are presented all of the published results of the 1920 census of agriculture for this state and its counties, except certain detailed tabulations for the state which appear in Volume V of the Fourteenth Census Reports and a few minor items which have been published in special bulletins. The statistics of farms and farm property, including live stock, relate to January 1, 1920; those of live-stock

products, crops, and farm expenditures are for the calendar year 1919. In order to show the present tendency in agriculture, comparative figures for the census of 1910 are given throughout; and to show the general trend of the agricultural industry over a considerable period of time, all general farm information available is presented for the different censuses since 1880.

FARMS AND FARM PROPERTY.

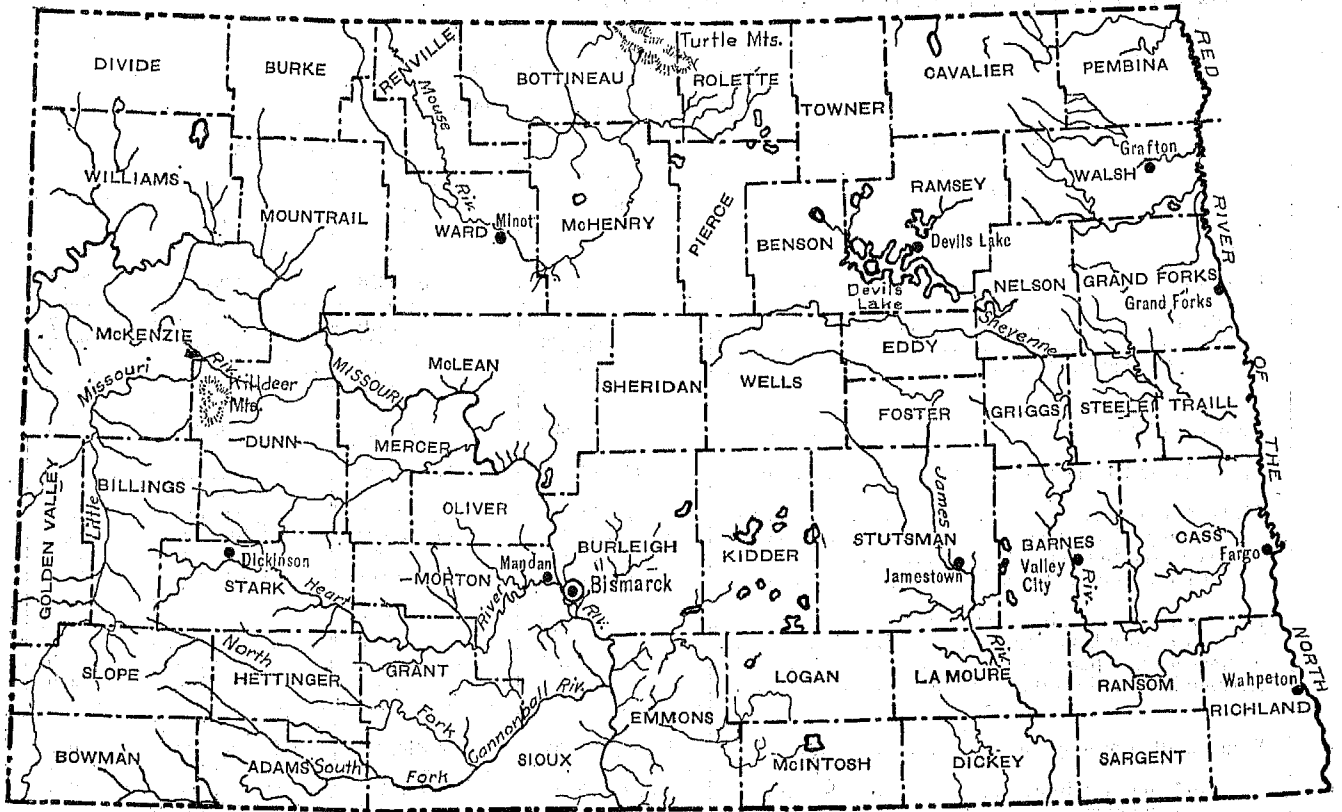
TABLE 1.—SUMMARY: 1920 AND 1910.

| ITEM. | 1920 (January 1) | 1910 (April 15) | INCREASE. | |
|---|---------------------|--------------------|---------------|-----------|
| | | | Amount. | Per cent. |
| Population, total..... | 646,872 | 577,056 | 69,816 | 12.1 |
| Rural ¹ | 558,633 | 513,820 | 44,813 | 8.7 |
| Urban..... | 88,239 | 63,236 | 25,003 | 39.5 |
| Per cent rural..... | 86.4 | 89.0 | | |
| Number of farms..... | 77,690 | 74,360 | 3,330 | 4.5 |
| Approximate land area of the state..... acres.. | 44,917,120 | 44,917,120 | | |
| All land in farms..... acres.. | 36,214,751 | 28,426,650 | 7,788,101 | 27.4 |
| Improved land in farms..... acres.. | 24,563,178 | 20,455,092 | 4,108,086 | 20.1 |
| Woodland in farms..... acres.. | 679,836 | 421,877 | 257,959 | 61.1 |
| Other unimproved land in farms..... acres.. | 10,971,737 | 7,549,681 | 3,422,056 | 45.3 |
| Per cent of land area in farms..... | 80.6 | 63.3 | | |
| Per cent of farm land improved..... | 67.8 | 72.0 | | |
| Average acreage per farm..... | 466.1 | 382.3 | 83.8 | 21.9 |
| Average improved acreage per farm..... | 316.2 | 275.1 | 41.1 | 14.9 |
| Value of all farm property..... | \$1,759,742,995 | \$974,814,205 | \$784,928,790 | 80.5 |
| Land and buildings..... | 1,488,521,495 | 822,656,744 | 665,864,751 | 80.9 |
| Land alone..... | 1,279,313,627 | 730,380,131 | 548,933,496 | 75.2 |
| Buildings..... | 209,207,868 | 92,276,613 | 116,931,255 | 126.7 |
| Implements and machinery..... | 114,186,865 | 43,907,595 | 70,279,270 | 160.1 |
| Live stock..... | 157,034,635 | 108,249,866 | 48,784,769 | 45.1 |
| Average value per farm: | | | | |
| All farm property..... | 22,651 | 13,109 | 9,542 | 72.8 |
| Land and buildings..... | 19,160 | 11,063 | 8,097 | 73.2 |
| Land alone..... | 16,467 | 9,822 | 6,645 | 67.7 |
| Buildings..... | 2,693 | 1,241 | 1,452 | 117.0 |
| Implements and machinery..... | 1,470 | 590 | 880 | 149.2 |
| Live stock..... | 2,021 | 1,456 | 565 | 38.8 |
| Average value per acre of land in farms: | | | | |
| All farm property..... | 48.59 | 34.29 | 14.30 | 41.7 |
| Land and buildings..... | 41.10 | 28.94 | 12.16 | 42.0 |
| Land alone..... | 35.33 | 25.69 | 9.64 | 37.5 |
| Buildings..... | 5.78 | 3.25 | 2.53 | 77.8 |
| Implements and machinery..... | 3.15 | 1.54 | 1.61 | 104.5 |
| Live stock..... | 4.34 | 3.81 | 0.53 | 13.9 |

¹ Population residing outside of incorporated places having 2,500 inhabitants or over. The rate of increase in the rural population between the two censuses is affected somewhat by the fact that certain places classified as rural in 1910 had become urban by 1920. The population in 1910 of the territory classified as rural in 1920 was 508,692. For this territory, the increase in population between 1910 and 1920 was 9.8 per cent, which percentage indicates the rate of growth of the rural population, leaving out of consideration the changes in classification of territory.

NORTH DAKOTA

COUNTIES, PRINCIPAL CITIES, RIVERS, AND MOUNTAINS.



EXPLANATION OF TERMS.

To assist in securing comparability for its statistics of agriculture, the Bureau of the Census provided the enumerators with certain definitions and instructions, the more important of which were essentially as given below.

Farm.—A "farm" for census purposes is all the land which is directly farmed by one person managing and conducting agricultural operations, either by his own labor alone or with the assistance of members of his household or hired employees. The term "agricultural operations" is used as a general term, referring to the work of growing crops, producing other agricultural products, and raising domestic animals, poultry, and bees. A "farm" as thus defined may consist of a single tract of land or of a number of separate and distinct tracts, and these several tracts may be held under different tenures, as where one tract is owned by the farmer and another tract is hired by him. When a landowner has one or more tenants, renters, croppers, or managers, the land operated by each is considered a "farm."

In applying the foregoing definition of a "farm" for census purposes, enumerators were instructed to report as a "farm" any tract of 3 or more acres used for agricultural purposes, and also any tract containing less than 3 acres which produced at least \$250 worth of farm products in the year 1919, or required for its agricultural operations the continuous services of at least one person.

Farmer.—A "farmer" or "farm operator," according to the census definition, is a person who directs the operation of a farm. Hence owners of farms who do not themselves direct the farm operations are not reported as "farmers." Farmers are divided by the Bureau of the Census into three general classes according to the character of their tenure, namely, owners, managers, and tenants.

Farm owners include (1) farmers operating their own land only and (2) those operating both their own land and some land hired from others. The latter are sometimes referred to in the census reports as "part owners," the term "full owners" being then used for those owning all their land.

Managers are farmers who are conducting farm operations for the owner for wages or a salary.

Farm tenants are farmers who, as tenants, renters, or croppers, operate hired land only. They were reported in 1920 in five classes: (1) Share tenants—those who pay a certain share of the products, as one-half, one-third, or one-quarter, for the use of the farm but furnish their own farm equipment and animals; (2) croppers—share tenants who do not furnish their work animals; (3) share-cash tenants—those who pay a share of the products for part of the land rented by them and cash for part; (4) cash tenants—those who pay a cash rental, as \$7 per acre of crop land or \$500 for the use of the whole farm; (5) standing renters—those who pay a stated amount of farm products for the use of the farm, as 3 bales of cotton or 500 bushels of corn. In some cases the character of the tenancy was not ascertained by the enumerator; such tenants are designated "unspecified."

Farm land.—Farm land is divided into (1) improved land, (2) woodland, and (3) other unimproved land.

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

All other unimproved land includes brush land, rough or stony land, swamp land, and any other land which is not improved or in forest.

The census classification of farm land as "improved land," "woodland," and "other unimproved land" is one not always easy for the farmers or enumerators to make, and the statistics, therefore, must be considered at best only a close approximation.

NUMBER OF FARMS, ACREAGE, AND VALUE.

TABLE 2.—NUMBER OF FARMS AND FARM ACREAGE: 1880 TO 1920.

| CENSUS YEAR. | FARMS. | | LAND IN FARMS. | | | | Per cent of land area in farms. | Per cent of farm land improved. |
|-------------------------|---------|-----------------------|----------------|-----------------------|----------------|------------------------------------|---------------------------------|---------------------------------|
| | Number. | Per cent of increase. | All land. | | Improved land. | | | |
| | | | Acres. | Per cent of increase. | Acres. | Per cent of increase. ¹ | | |
| 1920..... | 77,690 | 4.5 | 36,214,751 | 27.4 | 24,563,178 | 20.1 | 80.6 | 67.8 |
| 1910..... | 74,300 | 64.0 | 28,420,650 | 82.9 | 20,455,092 | 112.1 | 63.3 | 72.0 |
| 1900..... | 45,332 | 64.2 | 15,542,640 | 102.9 | 9,644,520 | 107.1 | 34.6 | 62.1 |
| 1890..... | 27,611 | 623.5 | 7,660,333 | 645.3 | 4,658,013 | ..... | 17.1 | 60.8 |
| 1880 ² | 3,790 | ..... | 1,027,345 | ..... | 259,543 | ..... | 2.3 | 25.3 |

¹ Per cent not shown when more than 1,000.
² No data prior to 1880. North Dakota admitted as a state in 1889. Figures for 1880 obtained by consolidating data for counties which then occupied the area now known as North Dakota.

TABLE 3.—VALUE OF FARM PROPERTY: 1880 TO 1920.

| CENSUS YEAR. | ALL FARM PROPERTY. | | LAND AND BUILDINGS. | | IMPLEMENTS AND MACHINERY. ¹ | | LIVE STOCK. | |
|-------------------------|--------------------|-----------------------|---------------------|-----------------------|--|-----------------------|-------------|------------------------------------|
| | Value. | Per cent of increase. | Value. | Per cent of increase. | Value. | Per cent of increase. | Value. | Per cent of increase. ¹ |
| | | | | | | | | |
| 1910..... | 974,814,205 | 281.9 | 822,656,744 | 313.8 | 43,907,595 | 212.4 | 108,249,866 | 155.1 |
| 1900..... | 255,260,781 | 153.4 | 198,730,700 | 163.9 | 14,055,560 | 111.4 | 42,430,401 | 125.8 |
| 1890..... | 100,745,779 | 827.7 | 75,310,305 | 778.2 | 6,648,180 | 694.9 | 18,787,204 | ..... |
| 1880 ² | 10,859,528 | ..... | 8,575,114 | ..... | 836,361 | ..... | 1,443,053 | ..... |

¹ Per cent not shown when more than 1,000.
² No data prior to 1880. North Dakota admitted as a state in 1889. Figures for 1880 obtained by consolidating data for counties which then occupied the area now known as North Dakota.

TABLE 4.—AVERAGE ACREAGE AND AVERAGE VALUE PER FARM: 1880 TO 1920.

[Averages are based on "all farms" in the state.]

| CENSUS YEAR. | AVERAGE ACREAGE PER FARM. | | AVERAGE VALUE PER FARM. | | | |
|-------------------------|---------------------------|----------------|-------------------------|---------------------|---------------------------|-------------|
| | All land. | Improved land. | All farm property. | Land and buildings. | Implements and machinery. | Live stock. |
| | | | | | | |
| 1910..... | 382.3 | 275.1 | 13,109 | 11,063 | 590 | 1,456 |
| 1900..... | 342.9 | 212.8 | 5,631 | 4,385 | 310 | 936 |
| 1890..... | 277.4 | 168.7 | 3,649 | 2,723 | 241 | 960 |
| 1880 ¹ | 271.2 | 68.5 | 2,365 | 2,263 | 221 | 382 |

¹ No data prior to 1880. North Dakota admitted as a state in 1889. Figures for 1880 obtained by consolidating data for counties which then occupied the area now known as North Dakota.

TABLE 5.—AVERAGE VALUE PER ACRE: 1880 TO 1920.

[Averages are based on "all land in farms" in the state.]

| CENSUS YEAR. | All farm property. | Land and buildings. | Land alone. | Buildings alone. | Implements and machinery. | Live stock. |
|-------------------------|--------------------|---------------------|-------------|------------------|---------------------------|-------------|
| | | | | | | |
| 1910..... | 34.29 | 28.94 | 25.09 | 3.25 | 1.54 | 3.81 |
| 1900..... | 16.42 | 12.79 | 11.15 | 1.64 | 0.90 | 2.73 |
| 1890..... | 13.15 | 9.83 | ..... | ..... | 0.87 | 2.45 |
| 1880 ¹ | 10.57 | 8.34 | ..... | ..... | 0.81 | 1.41 |

¹ No data prior to 1880. North Dakota admitted as a state in 1889. Figures for 1880 obtained by consolidating data for counties which then occupied the area now known as North Dakota.

TABLE 14.—AVERAGE ACREAGE, PER CENT OF FARM LAND IMPROVED, AND AVERAGE VALUES, BY TENURE: 1920 AND 1910.

| TENURE. | AVERAGE ACREAGE PER FARM. | | | | PER CENT OF FARM LAND IMPROVED. | | AVERAGE VALUE OF LAND AND BUILDINGS. | | | |
|---------------|---------------------------|-------|----------------|-------|---------------------------------|------|--------------------------------------|----------|-----------|---------|
| | All land. | | Improved land. | | 1920 | 1910 | Per farm. | | Per acre. | |
| | 1920 | 1910 | 1920 | 1910 | | | 1920 | 1910 | 1920 | 1910 |
| Total..... | 466.1 | 382.3 | 316.2 | 275.1 | 67.8 | 72.0 | \$19,160 | \$11,063 | \$41.10 | \$23.94 |
| Owners..... | 471.7 | 373.1 | 306.7 | 259.6 | 65.0 | 60.6 | 18,287 | 10,422 | 38.77 | 27.93 |
| Managers..... | 949.1 | 986.0 | 594.7 | 774.5 | 59.5 | 78.6 | 41,063 | 34,014 | 43.27 | 35.41 |
| Tenants..... | 429.4 | 409.1 | 332.5 | 344.4 | 77.4 | 84.2 | 20,733 | 13,780 | 48.23 | 33.68 |

FARMS BY SEX, RACE, AND NATIVITY OF FARMER.

TABLE 15.—NUMBER, ACREAGE, AND VALUE OF FARMS, CLASSIFIED BY SEX AND TENURE OF FARMER: 1920.

| SEX AND TENURE. | Number of farms. | All land in farms (acres). | Improved land in farms (acres). | Value of land and buildings. | AVERAGE PER FARM. | | |
|-----------------|------------------|----------------------------|---------------------------------|------------------------------|-------------------|------------------------|------------------------------|
| | | | | | All land (acres). | Improved land (acres). | Value of land and buildings. |
| Total..... | 77,690 | 36,214,751 | 24,563,178 | \$1,488,521,495 | 466.1 | 316.2 | \$19,160 |
| Male..... | 76,016 | 35,497,465 | 24,130,154 | 1,460,029,954 | 467.0 | 317.4 | 19,215 |
| Female..... | 1,674 | 717,286 | 433,024 | 27,891,541 | 428.5 | 258.7 | 16,662 |
| Owners..... | 56,917 | 26,850,085 | 17,457,329 | 1,040,855,459 | 471.7 | 306.7 | 18,287 |
| Male..... | 55,389 | 26,218,080 | 17,063,681 | 1,015,515,020 | 473.3 | 308.1 | 18,334 |
| Female..... | 1,528 | 632,005 | 393,748 | 25,340,421 | 413.6 | 257.7 | 16,584 |
| Managers..... | 855 | 811,467 | 482,855 | 35,108,503 | 949.1 | 564.7 | 41,063 |
| Male..... | 851 | 810,296 | 481,904 | 35,014,153 | 952.2 | 566.3 | 41,145 |
| Female..... | 4 | 1,171 | 951 | 94,350 | 292.8 | 237.8 | 23,588 |
| Tenants..... | 19,918 | 8,553,199 | 6,622,994 | 412,557,542 | 429.4 | 332.5 | 20,733 |
| Male..... | 19,776 | 8,469,089 | 6,584,669 | 410,100,772 | 428.3 | 333.0 | 20,737 |
| Female..... | 142 | 84,110 | 38,325 | 2,456,770 | 592.3 | 269.9 | 17,301 |

TABLE 16.—NUMBER, ACREAGE, AND VALUE OF FARMS, CLASSIFIED BY NATIVITY OF WHITE FARMERS AND BY RACE OF COLORED FARMERS: 1920 AND 1910.

| COLOR AND NATIVITY OR RACE. | NUMBER OF FARMS. | | LAND IN FARMS, 1920 (ACRES). | | Value of land and buildings, 1920 |
|-----------------------------|------------------|--------|------------------------------|------------|-----------------------------------|
| | 1920 | 1910 | Total | Improved. | |
| All farmers..... | 77,690 | 74,360 | 36,214,751 | 24,563,178 | \$1,488,521,495 |
| White farmers..... | 77,147 | 73,617 | 36,028,299 | 24,517,007 | 1,484,992,639 |
| Native ¹ | 40,899 | 35,750 | 19,393,945 | 13,158,149 | 814,172,454 |
| Foreign-born..... | 36,248 | 37,867 | 16,634,354 | 11,358,858 | 670,820,185 |
| Country of birth: | | | | | |
| Austria..... | 849 | 1,804 | 372,033 | 261,412 | 21,439,658 |
| Canada..... | 3,125 | 4,251 | 1,465,396 | 1,148,714 | 75,724,726 |
| Denmark..... | 1,237 | 1,318 | 544,605 | 387,273 | 22,020,015 |
| England..... | 431 | 627 | 279,036 | 148,288 | 9,111,158 |
| Finland..... | 432 | (2) | 205,011 | 132,276 | 7,707,159 |
| Germany..... | 3,694 | 4,825 | 1,767,977 | 1,237,935 | 78,767,040 |
| Holland..... | 296 | 216 | 142,564 | 98,000 | 5,969,958 |
| Hungary..... | 697 | 513 | 328,024 | 180,497 | 8,271,663 |
| Ireland..... | 335 | 339 | 172,315 | 130,780 | 8,465,524 |
| Norway..... | 10,900 | 10,886 | 4,462,915 | 3,151,941 | 193,191,032 |
| Poland..... | 516 | 286 | 200,047 | 137,564 | 8,569,866 |
| Rumania..... | 284 | (2) | 128,184 | 93,500 | 4,136,520 |
| Russia..... | 8,590 | 7,734 | 4,413,144 | 2,734,178 | 132,991,335 |
| Scotland..... | 238 | 359 | 140,717 | 99,328 | 6,001,545 |
| Sweden..... | 3,377 | 3,635 | 1,476,824 | 1,045,014 | 61,936,345 |
| Switzerland..... | 142 | 151 | 79,206 | 53,048 | 3,310,955 |
| Other countries..... | 1,105 | 923 | 455,396 | 319,110 | 21,515,686 |
| Colored farmers..... | 543 | 743 | 186,452 | 46,171 | 3,528,856 |
| Negro..... | 26 | 22 | 11,076 | 5,563 | 285,740 |
| Indian..... | 517 | 721 | 175,376 | 40,608 | 3,243,116 |

¹ Includes farmers with country of birth not reported, as follows: For 1920, 1,452; for 1910, 61.
² Included with "other countries."

TABLE 17.—NUMBER OF FARMERS, CLASSIFIED BY TENURE, COLOR, AND NATIVITY: 1920 AND 1910.

| TENURE. | ALL FARMERS. | | NATIVE WHITE. ¹ | | FOREIGN-BORN WHITE. | | COLORED. | |
|---------------|--------------|--------|----------------------------|--------|---------------------|--------|----------|------|
| | 1920 | 1910 | 1920 | 1910 | 1920 | 1910 | 1920 | 1910 |
| Total..... | 77,690 | 74,360 | 40,899 | 35,750 | 36,248 | 37,867 | 543 | 743 |
| Owners..... | 56,917 | 63,212 | 27,489 | 29,082 | 28,959 | 33,403 | 469 | 727 |
| Managers..... | 855 | 484 | 627 | 316 | 226 | 166 | 2 | 2 |
| Tenants..... | 19,918 | 10,664 | 12,783 | 6,352 | 7,063 | 4,298 | 72 | 14 |

¹ Includes farmers with country of birth not reported.

FARM MORTGAGES.

TABLE 18.—MORTGAGED FARMS: 1920 AND 1910.

[Owned farms only; includes all farms owned in whole or in part by the operator.]

| CLASS. | NUMBER OF OWNED FARMS. | | INCREASE. ¹ | | PER CENT OF TOTAL. | |
|-------------------------|------------------------|--------|------------------------|-----------|--------------------|-------|
| | 1920 | 1910 | Number. | Per cent. | 1920 | 1910 |
| Total..... | 56,917 | 63,212 | -6,295 | -10.0 | 100.0 | 100.0 |
| Free from mortgage..... | 12,833 | 30,651 | -17,818 | -58.1 | 22.5 | 48.5 |
| Mortgaged..... | 40,462 | 31,727 | 8,735 | 27.5 | 71.1 | 50.2 |
| Unknown..... | 3,622 | 834 | 2,788 | 334.3 | 6.4 | 1.3 |

¹ A minus sign (-) denotes decrease. The comparative figures shown for farms free from mortgage and mortgaged are affected somewhat by the fact that more farms were tabulated as "unknown" in 1920 than in 1910.

TABLE 19.—MORTGAGED FARMS (OR FARM HOMES): 1890 TO 1920.

| CLASS. | OWNED FARMS. | | OWNED FARM HOMES. | | PER CENT OF TOTAL. | | | |
|-------------------------|--------------|--------|-------------------|--------|--------------------|-------|-------|-------|
| | 1920 | 1910 | 1900 | 1890 | 1920 | 1910 | 1900 | 1890 |
| Total..... | 56,917 | 63,212 | 39,456 | 25,431 | 100.0 | 100.0 | 100.0 | 100.0 |
| Free from mortgage..... | 12,833 | 30,651 | 20,113 | 13,054 | 22.5 | 48.5 | 66.2 | 51.3 |
| Mortgaged..... | 40,462 | 31,727 | 11,905 | 12,377 | 71.1 | 50.2 | 30.3 | 48.7 |
| Unknown..... | 3,622 | 834 | 1,378 | ..... | 6.4 | 1.3 | 3.5 | ..... |

TABLE 20.—MORTGAGE DEBT: 1920 AND 1910.

| ITEM. | OWNED FARMS MORTGAGED. ¹ | | INCREASE. | |
|---|-------------------------------------|---------------|---------------|-----------|
| | 1920 | 1910 | Amount. | Per cent. |
| Number of farms reporting amount of debt..... | 22,023 | 19,187 | 3,436 | 17.9 |
| Value of land and buildings..... | \$380,132,941 | \$213,042,953 | \$166,489,988 | 77.9 |
| Amount of mortgage debt..... | \$108,284,682 | \$47,841,587 | \$60,443,095 | 126.3 |
| Ratio of debt to value, per cent.. | 28.5 | 22.4 | ..... | ..... |
| Average rate of interest paid, per cent..... | 6.7 | ..... | ..... | ..... |
| Average value per farm..... | \$10,803 | \$11,135 | \$5,668 | 50.9 |
| Average debt per farm..... | \$4,786 | \$2,403 | \$2,283 | 92.0 |
| Average equity per farm..... | \$12,010 | \$8,642 | \$3,374 | 39.0 |

¹ Includes only farms consisting wholly of owned land and reporting amount of debt. In considering the comparative figures it should be borne in mind that the mortgage debt may have been more completely reported at one census than at the other.

FARM EXPENDITURES FOR LABOR, FERTILIZER, AND FEED.

TABLE 21.—FARMS REPORTING EXPENDITURES FOR LABOR, FERTILIZER, AND FEED: 1919 AND 1909.

| ITEM. | NUMBER OF FARMS REPORTING. | | INCREASE. | | PER CENT OF ALL FARMS. | |
|-----------------|----------------------------|--------|-----------|-----------|------------------------|------|
| | 1919 | 1909 | Number. | Per cent. | 1919 | 1909 |
| Labor..... | 51,752 | 45,775 | 5,977 | 13.1 | 66.6 | 61.6 |
| Fertilizer..... | 489 | 175 | 314 | 179.4 | 0.8 | 0.2 |
| Feed..... | 42,957 | 19,024 | 23,933 | 118.9 | 55.3 | 28.4 |

TABLE 22.—AMOUNT OF EXPENDITURES FOR LABOR, FERTILIZER, AND FEED: 1919 AND 1909.

| ITEM. | AMOUNT EXPENDED. | | INCREASE. | |
|--|------------------|--------------|--------------|------------------------|
| | 1919 | 1909 | Amount. | Per cent. ¹ |
| Labor, total..... | \$37,063,815 | \$21,740,149 | \$15,323,666 | 70.5 |
| Amount in cash..... | 27,678,182 | 17,108,082 | 10,480,100 | 60.9 |
| Value of rent and board furnished..... | 9,385,633 | 4,642,067 | 4,843,566 | 106.6 |
| Fertilizer..... | 119,782 | 10,003 | 109,779 | 518.2 |
| Feed..... | 12,382,661 | 2,003,028 | 10,379,633 | |

¹ Per cent not shown when more than 1,000.

LIVE STOCK ON FARMS AND ELSEWHERE.

(DOMESTIC ANIMALS, POULTRY, AND BEES.)

Domestic animals: 1920 and 1910.—The census of 1920 was taken as of January 1 and that of 1910 as of April 15. Since a great many domestic animals are born during the period between January 1 and April 15 and, on the other hand, a considerable number of older animals are slaughtered or die during the same period, the numbers of the different classes of animals for the two censuses are not fully comparable. In addition to the change in the date of enumeration, there have been certain changes in the age and sex classifications. The 1910 figures presented in the following tables are therefore restricted to those classes of domestic animals which are least affected by these changes and for which the figures are fairly comparable with the 1920 returns.

Dairy cows: 1920 and 1910.—In 1910 the census called for "cows and heifers kept for milk" and "cows and heifers not kept for milk." The instructions read: "Report as cows kept for milk those whose milk is used in some form for human food. Cows milked for three months during the year should be reported as *kept for milk*, although a part of the year they run with their calves."

In 1920 the census called for "dairy cattle" and "beef cattle." Dairy cattle were defined as those "kept mainly for milk production," and the following instructions were given the enumerators: "Classify all cattle as beef cattle or as dairy cattle, according to the principal purpose for which they are kept." It is believed that under this rule the fully established dairy and beef breeds have been properly reported, with few errors, and that cattle of the dual-purpose breeds or of no definite breeding have been placed in one class or the other, according to the principal purpose for which they are kept.

In states where cattle are raised extensively for beef production the result of this new classification will be to reduce materially the proportion of cows classified as dairy cows, and even in states having few strictly beef cattle the 1920 classification may be expected to give a somewhat smaller proportion of dairy cows than the 1910 classification.

In North Dakota the number of "dairy cows," including heifers one year old and over, reported for

January 1, 1920, was 461,093, as compared with 259,173 "cows kept for milk" reported for April 15, 1910. This represents an increase of 201,920, or 77.9 per cent. The number of "beef cows" reported for January 1, 1920, was 296,135, as compared with 119,510 "cows not kept for milk" reported for April 15, 1910, representing an increase of 176,625, or 147.8 per cent. The percentage of increase shown for dairy cows would doubtless have been even larger, except for the change in classification mentioned above, and the percentage of increase shown for beef cows correspondingly smaller.

Farms reporting domestic animals: 1910.—Horses were reported by 69,945 farms in North Dakota in 1910, mules by 2,800 farms, cattle by 64,224, sheep by 3,671, and swine by 42,972. In comparing these figures with the 1920 figures given in the table below, due allowance should be made for the fact that the total number of farms in North Dakota increased from 74,360 in 1910 to 77,690 in 1920.

TABLE 23.—DOMESTIC ANIMALS ON FARMS: 1920.

| CLASS. | FARMS REPORTING. | | ANIMALS. | | |
|---|------------------|------------------------|------------------|----------------------|----------------|
| | Number. | Per cent of all farms. | Number. | Value. | Average value. |
| Total..... | 76,110 | 98.0 | | \$153,361,490 | |
| Horses, total..... | 75,601 | 97.3 | 855,682 | 72,168,452 | \$84.34 |
| Colts under 1 year of age..... | 34,723 | 44.7 | 69,260 | 1,970,717 | 28.59 |
| Colts 1 year old and under 2 years..... | 35,902 | 46.2 | 73,422 | 3,408,936 | 46.43 |
| Mares 2 years old and over..... | 72,739 | 93.6 | 361,070 | 84,443,234 | 95.39 |
| Geldings 2 years old and over..... | 72,498 | 93.3 | 347,151 | 30,779,129 | 88.66 |
| Stallions 2 years old and over..... | 3,888 | 5.0 | 4,789 | 1,567,436 | 325.21 |
| Mules, total..... | 3,173 | 4.1 | 7,873 | 780,508 | 99.14 |
| Mule colts under 1 year of age..... | 419 | 0.5 | 808 | 40,143 | 49.08 |
| Mule colts 1 year old and under 2 years..... | 356 | 0.5 | 691 | 50,353 | 72.87 |
| Mules 2 years old and over..... | 2,498 | 3.2 | 6,374 | 690,012 | 108.25 |
| Asses and burros..... | 102 | 0.1 | 142 | 34,146 | 240.46 |
| Cattle, total..... | 72,021 | 92.7 | 1,334,552 | 67,911,737 | 50.89 |
| Beef cattle, total..... | 42,783 | 55.1 | 674,529 | 83,067,119 | 49.91 |
| Calves under 1 year of age..... | 30,370 | 39.1 | 212,398 | 5,039,943 | 23.70 |
| Heifers 1 year old and under 2 years..... | 19,076 | 24.6 | 85,051 | 3,619,017 | 42.55 |
| Cows and heifers 2 years old and over..... | 21,223 | 27.3 | 211,084 | 15,108,162 | 71.56 |
| Steers 1 year old and under 2 years..... | 22,624 | 29.1 | 99,204 | 4,376,666 | 44.12 |
| Steers 2 years old and over..... | 9,109 | 11.7 | 50,660 | 3,514,910 | 69.37 |
| Bulls 1 year old and over..... | 13,604 | 17.5 | 16,123 | 2,016,521 | 125.07 |
| Dairy cattle, total..... | 54,677 | 70.4 | 660,023 | 34,244,618 | 61.88 |
| Calves under 1 year of age..... | 35,429 | 49.5 | 181,739 | 3,672,270 | 20.21 |
| Heifers 1 year old and under 2 years..... | 30,156 | 38.8 | 90,386 | 3,597,937 | 39.81 |
| Cows and heifers 2 years old and over..... | 53,745 | 69.2 | 370,707 | 25,508,598 | 68.81 |
| Bulls 1 year old and over..... | 18,700 | 20.2 | 17,191 | 1,465,813 | 85.27 |
| Sheep, total..... | 6,887 | 8.8 | 298,812 | 3,573,689 | 11.96 |
| Lambs under 1 year of age..... | 4,401 | 5.7 | 75,812 | 687,836 | 9.07 |
| Ewes 1 year old and over..... | 6,085 | 7.8 | 209,323 | 2,636,417 | 12.59 |
| Rams 1 year old and over..... | 3,366 | 4.3 | 6,955 | 178,929 | 25.73 |
| Wethers 1 year old and over..... | 780 | 0.9 | 6,222 | 70,507 | 10.34 |
| Goats, total..... | 410 | 0.5 | 1,250 | 7,972 | 6.38 |
| Kids under 1 year of age, raised for fleeces..... | 25 | (¹) | 80 | 561 | 7.01 |
| Goats 1 year old and over, raised for fleeces..... | 64 | 0.1 | 149 | 1,280 | 8.26 |
| All other goats..... | 380 | 0.5 | 1,021 | 6,181 | 6.05 |
| Swine, total..... | 59,183 | 76.2 | 458,265 | 8,864,986 | 19.39 |
| Pigs under 6 months old..... | 20,387 | 26.2 | 133,870 | 1,429,446 | 10.68 |
| Sows and gilts for breeding, 6 months old and over..... | 34,130 | 43.9 | 126,760 | 3,368,504 | 26.57 |
| Boars for breeding, 6 months old and over..... | 9,410 | 12.1 | 11,614 | 395,427 | 34.05 |
| All other hogs, 6 months old and over..... | 30,660 | 39.5 | 186,021 | 3,661,609 | 19.85 |

¹ Less than one-tenth of 1 per cent.

TABLE 24.—POULTRY AND BEES ON FARMS: 1920 AND 1910.

| ITEM. | FARMS REPORTING, 1920. | | NUMBER REPORTED. ¹ | | Value, 1920 | Average value, 1920 |
|-----------------------------|------------------------|------------------------|-------------------------------|----------------|-------------|---------------------|
| | Number. | Per cent of all farms. | 1920 (Jan. 1) | 1910 (Apr. 15) | | |
| Poultry, total | 70,193 | 90.4 | 4,608,449 | 3,268,109 | \$3,667,531 | \$0.80 |
| Chickens..... | 69,722 | 89.7 | 4,323,567 | 3,095,026 | 3,115,012 | 0.72 |
| Turkeys..... | 23,597 | 30.4 | 139,179 | 91,621 | 379,204 | 2.72 |
| Ducks..... | 10,135 | 13.0 | 42,475 | 39,938 | 46,970 | 1.11 |
| Geese..... | 14,069 | 18.1 | 54,951 | 30,456 | 114,943 | 2.09 |
| Guinea fowls..... | 983 | 1.3 | 3,930 | 2,000 | 2,976 | 0.76 |
| Pigeons..... | 2,235 | 2.9 | 39,347 | 38,300 | 8,420 | 0.21 |
| Hives of bees | 75 | 0.1 | 708 | 495 | 5,614 | 7.93 |

¹ The numbers of the different classes of poultry are not strictly comparable for the two censuses, since a considerable number of fowls are killed between Jan. 1 and Apr. 15.

² Includes a small number of peafowls.

TABLE 25.—SELECTED CLASSES OF DOMESTIC ANIMALS ON FARMS: 1920 AND 1910.

| CLASS. | NUMBER. | | INCREASE. ¹ | |
|--|---------------|----------------|------------------------|-----------|
| | 1920 (Jan. 1) | 1910 (Apr. 15) | Number. | Per cent. |
| Horses: | | | | |
| Total, excluding spring colts reported for 1910..... | 855,682 | 625,984 | 229,698 | 36.7 |
| Colts under 1 year old on Jan. 1 of census year..... | 69,250 | 61,671 | 7,579 | 12.3 |
| Horses 1 year old and over on Jan. 1 of census year..... | 780,432 | 564,313 | 222,119 | 39.4 |
| Mules: | | | | |
| Total, excluding spring colts reported for 1910..... | 7,873 | 7,585 | 288 | 3.8 |
| Mule colts under 1 year old on Jan. 1 of census year..... | 808 | 421 | 387 | 91.9 |
| Mules 1 year old and over on Jan. 1 of census year..... | 7,065 | 7,164 | -99 | -1.4 |
| Cattle: | | | | |
| Total, excluding spring calves reported for 1910..... | 1,334,552 | 613,079 | 721,473 | 117.7 |
| Calves under 1 year old on Jan. 1 of census year..... | 394,137 | 175,700 | 218,368 | 124.2 |
| Cows and heifers 1 year old and over on Jan. 1 of census year..... | 757,228 | 378,683 | 378,545 | 100.0 |
| Steers and bulls 1 year old and over on Jan. 1 of census year..... | 183,187 | 65,627 | 124,560 | 212.5 |
| Sheep: | | | | |
| Total, excluding spring lambs reported for 1910..... | 298,912 | 241,392 | 57,520 | 23.8 |

¹ A minus sign (-) denotes decrease.

TABLE 26.—DOMESTIC ANIMALS NOT ON FARMS: 1920 AND 1910.

| CLASS. | INCLOSURES REPORTING. | | ANIMALS. | | | |
|--|-----------------------|----------------|---------------|----------------|------------------------|-----------|
| | 1920 (Jan. 1) | 1910 (Apr. 15) | Number. | | Increase. ¹ | |
| | | | 1920 (Jan. 1) | 1910 (Apr. 15) | Number. | Per cent. |
| Total..... | 8,961 | 9,784 | | | | |
| Horses | 5,109 | 7,133 | 19,040 | 22,214 | -3,174 | -14.3 |
| Horses 1 year old and over on Jan. 1 of census year..... | | | 18,378 | 21,413 | -3,035 | -14.2 |
| Mules | 187 | 116 | 433 | 716 | -283 | -39.5 |
| Mules 1 year old and over on Jan. 1 of census year..... | | | 409 | 708 | -299 | -42.2 |
| Asses and burros | 15 | 21 | 22 | 23 | -1 | ..... |
| Cattle | 6,584 | 6,238 | 16,471 | 12,429 | 4,042 | 32.5 |
| Cattle 1 year old and over on Jan. 1 of census year..... | | | 13,667 | 9,898 | 3,769 | 38.1 |
| Sheep | 90 | 28 | 2,164 | 1,188 | 976 | 82.2 |
| Goats..... | 18 | 40 | 36 | 133 | -97 | -72.9 |
| Swine..... | 1,879 | 602 | 5,835 | 2,461 | 3,374 | 137.1 |

¹ A minus sign (-) denotes decrease. Per cent not shown when base is less than 100.

TABLE 27.—TOTAL NUMBER OF DOMESTIC ANIMALS: 1920.

| CLASS. | Total. | On farms. | Not on farms. |
|----------------------------------|-----------|-----------|---------------|
| Horses | 874,722 | 855,682 | 19,040 |
| Horses 2 years old and over..... | 730,627 | 713,010 | 17,617 |
| Mules | 8,306 | 7,873 | 433 |
| Mules 2 years old and over..... | 6,755 | 6,374 | 381 |
| Asses and burros | 164 | 142 | 22 |
| Cattle | 1,351,023 | 1,334,552 | 16,471 |
| Beef cattle..... | 678,001 | 674,529 | 3,472 |
| Dairy cattle..... | 673,022 | 660,023 | 12,999 |
| Dairy cows..... | 380,795 | 370,707 | 10,088 |
| Sheep | 301,076 | 298,912 | 2,164 |
| Goats..... | 1,288 | 1,250 | 36 |
| Swine..... | 464,100 | 453,265 | 5,835 |

LIVE-STOCK PRODUCTS.

Farm value of live-stock products: 1919 and 1909.—The Thirteenth Census schedule called for the total value as well as the total quantity of all live-stock products, whether sold or consumed on the farm. The 1909 values are therefore based directly on the reported figures. But in the Fourteenth Census schedule the question as to the value in the case of dairy products, eggs, and chickens was restricted to the amounts sold. The 1919 value of butter made on farms has been computed on the basis of the average value received per pound for butter sold; the values of eggs produced and chickens raised have been computed in a similar way. The values of cheese made on farms and of honey and wax produced have been computed on the basis of average values per pound secured through the Bureau of Crop Estimates of the Department of Agriculture. The method of obtaining these average values was the same as that used for securing average values for the important crops, which is described in a later paragraph.

Dairy products.—It is difficult to secure reports of the total quantity of milk produced during a given year, especially from farmers who keep cows chiefly to supply milk and butter for family use. Since such farmers usually keep no records, they are able to make only rough estimates of the milk production and frequently underestimate the quantity of milk produced for home use. Many farmers, too, either because they are unwilling to make any estimates or for other reasons, fail to report their milk production, even though they report butter or other dairy products as well as dairy cows.

For several decades past the Bureau of the Census has made estimates for such incomplete reports, where the farmer reported "cows kept for milk" but failed to report the amount of milk produced, these estimates being based on the average production per cow as shown by the complete reports. Since farmers with first-class dairy herds and up-to-date methods are more likely to make complete reports than those with cows of a lower grade, the estimates obtained in this

way have probably been somewhat above the actual production. With the new basis of classification for dairy cows in use for 1920, however, as already noted, the estimates should be more satisfactory than heretofore, since milk will be estimated only for cows kept mainly for milk production.

In the table which follows, both the actual reported quantity of milk produced and the estimated total are given. The latter includes, in addition to the milk reported, an estimate of the amount of milk produced on farms which reported dairy cows but failed to report any milk. A certain quantity of milk, on the other hand, was reported from farms which reported no dairy cows. This is included in the total and may represent either milk produced by beef cows milked a part of the year on farms having no dairy cows or milk produced on farms which kept dairy cows some time during the year 1919 but had none on January 1, 1920.

It may be safely assumed that the returns for butter and cheese made on farms and for milk, cream, butter fat, and butter sold are much more nearly complete than in the case of milk produced. Hence no estimates have been made for these items.

TABLE 28.—DAIRY COWS ON FARMS, 1920; AND DAIRY PRODUCTS, 1919 AND 1909.

| ITEM. | FARMS REPORTING. | | Number or quantity. | Unit. | Value. |
|---|------------------|------------------------|---------------------|-----------|--------------|
| | Number. | Per cent of all farms. | | | |
| Dairy cows on farms Jan. 1, 1920, total..... | 53,745 | 69.2 | 370,707 | Head..... | |
| On farms reporting milk produced..... | 46,498 | 59.9 | 324,618 | Head..... | |
| On farms not reporting milk produced..... | 7,247 | 9.3 | 40,089 | Head..... | |
| Average production of milk per dairy cow, 1919 ¹ | | | 309 | Gals..... | |
| Specified dairy products: | | | | | |
| Milk, as reported.....1919..... | | | 124,365,039 | Gals..... | |
|1909..... | | | 70,637,899 | Gals..... | |
| Increase, 1909-1919..... | | | 53,727,140 | Gals..... | |
| Per cent of increase..... | | | 76.1 | | |
| Total production of milk, including estimates.....1919..... | | | 138,606,540 | Gals..... | |
| Butter made.....1919..... | 58,147 | 74.8 | 14,413,180 | Lbs..... | \$6,996,643 |
|1909..... | 46,838 | 63.0 | 16,414,439 | Lbs..... | \$3,508,579 |
| Cheese made.....1919..... | 692 | 0.9 | 50,065 | Lbs..... | \$22,081 |
|1909..... | 277 | 0.4 | 22,754 | Lbs..... | \$2,976 |
| Milk sold.....1919..... | 1,879 | 2.4 | 3,047,096 | Gals..... | \$998,961 |
|1909..... | 1,106 | 1.5 | 1,644,150 | Gals..... | \$293,956 |
| Cream sold.....1919..... | 17,812 | 22.9 | 3,098,421 | Gals..... | \$4,062,780 |
|1909..... | 3,315 | 4.5 | 834,103 | Gals..... | \$528,977 |
| Butter fat sold.....1919..... | 29,820 | 38.4 | 14,607,548 | Lbs..... | \$7,495,928 |
|1909..... | 3,494 | 4.7 | 2,185,377 | Lbs..... | \$537,816 |
| Butter sold.....1919..... | 18,800 | 24.2 | 2,898,998 | Lbs..... | \$1,398,808 |
|1909..... | 27,065 | 37.1 | 7,019,169 | Lbs..... | \$1,514,215 |
| Value of milk, cream, and butter fat sold, and of butter and cheese made ² 1919..... | | | | | \$19,576,343 |
|1909..... | | | | | \$4,872,304 |
| Increase, 1909-1919..... | | | | | \$14,704,039 |
| Per cent of increase..... | | | | | 301.8 |
| Receipts from sale of dairy products ³.....1919..... | | | | | \$13,956,477 |
|1909..... | | | | | \$2,876,298 |
| Increase, 1909-1919..... | | | | | \$11,080,179 |
| Per cent of increase..... | | | | | 385.2 |

¹ Based on the 1919 milk production as reported for dairy cows, and the number of dairy cows on hand Jan. 1, 1920.

² Includes a considerable number of farms reporting small quantities of butter made as an incidental product from cows kept mainly for beef purposes.

³ This item represents the total farm value of dairy products, excluding milk and cream consumed as such on the farm where produced.

⁴ Figures for 1919 do not include cheese sold, as that item was not reported for 1919. The value of cheese sold in 1909 was \$1,834.

TABLE 29.—SHEEP ON FARMS, 1920 AND 1910; GOATS ON FARMS, 1920; AND WOOL AND MOHAIR PRODUCED, 1919 AND 1909.

| ITEM. | Farms reporting. | Number of sheep (or goats) on hand. | WOOL (OR MOHAIR) PRODUCED. | | |
|--|------------------|-------------------------------------|----------------------------|------------------|-----------|
| | | | Number of animals shorn. | Weight (pounds). | Value. |
| Sheep on farms Jan. 1, 1920, total..... | 6,867 | 298,912 | | | |
| On farms reporting wool..... | 4,365 | 218,550 | | | |
| On farms not reporting wool..... | 2,502 | 80,362 | | | |
| Sheep of shearing age ¹ on farms Apr. 15, 1910..... | 3,624 | 241,392 | | | |
| Wool produced, as reported, total.....1919..... | 4,470 | | 174,376 | 1,383,550 | \$690,284 |
| On farms reporting sheep..... | 4,365 | | 167,080 | 1,335,898 | \$647,623 |
| On farms not reporting sheep..... | 114 | | 6,096 | 47,651 | \$22,761 |
| Total production of wool, including estimates.....1919..... | | | | 1,826,352 | \$613,170 |
|1909..... | | | | 1,070,830 | \$381,722 |
| Increase, 1909-1919..... | | | | 149,522 | \$231,454 |
| Per cent of increase..... | | | | 8.9 | 130.2 |
| Goats raised for fleeces, on farms Jan. 1, 1920..... | 70 | 229 | | | |
| Mohair produced, as reported, total.....1919..... | 58 | | 177 | 719 | \$475 |
|1909..... | 36 | | | 470 | \$133 |

¹ Sheep born before Jan. 1, 1910.

TABLE 30.—CHICKENS (OR FOWLS) ON FARMS, 1920 AND 1910; AND POULTRY PRODUCTS, 1919 AND 1909.

[The products shown for 1919 include chicken eggs and chickens only, while the 1909 figures include the products of all kinds of poultry.]

| ITEM. | FARMS REPORTING. | | Number or quantity. | Value. |
|---|------------------|------------------------|-----------------------|-------------|
| | Number. | Per cent of all farms. | | |
| Chickens on farms Jan. 1, 1920, total..... | 69,722 | 89.7 | Number. 4,328,567 | |
| On farms reporting eggs produced..... | 64,221 | 82.7 | 4,080,300 | |
| On farms reporting chickens raised..... | 53,065 | 68.3 | 3,537,338 | |
| Fowls on farms Apr. 15, 1910..... | 61,532 | 82.7 | 3,268,109 | |
| Eggs produced, as reported.....1919..... | 64,802 | 83.4 | Dozens. 19,734,104 | \$6,711,300 |
| Total production of eggs, including estimates.....1919..... | | | 20,820,407 | 7,078,038 |
|1909..... | | | 17,294,322 | 3,045,067 |
| Eggs sold, as reported.....1919..... | 46,459 | 66.8 | 8,498,671 | 2,886,246 |
|1909..... | 32,322 | 43.5 | 6,404,074 | 1,142,043 |
| Chickens raised, as reported.....1919..... | 53,482 | 68.8 | Number. 4,367,128 | 2,808,587 |
| Total chickens raised, including estimates.....1919..... | | | 5,324,137 | 3,407,448 |
|1909..... | | | 4,043,481 | 1,530,402 |
| Chickens sold, as reported.....1919..... | 17,331 | 22.3 | 846,410 | 552,426 |
|1909..... | 13,729 | 18.5 | 588,492 | 283,972 |

TABLE 31.—BEES ON FARMS, 1920 AND 1910; AND HONEY AND WAX PRODUCED, 1919 AND 1909.

| ITEM. | Farms reporting. | Hives of bees. | PRODUCT. | |
|--|------------------|----------------|--------------------|---------|
| | | | Quantity (pounds). | Value. |
| Bees on farms Jan. 1, 1920, total..... | 75 | 708 | | |
| On farms reporting honey..... | 40 | 435 | | |
| On farms not reporting honey..... | 26 | 273 | | |
| Bees on farms Apr. 15, 1910..... | 70 | 495 | | |
| Honey produced.....1919..... | 51 | | 12,814 | \$3,588 |
|1909..... | 54 | | 11,084 | 1,840 |
| Wax produced.....1919..... | | | 183 | 64 |
|1909..... | | | 92 | 29 |

CROPS.

Summary: 1919 and 1909.—This section summarizes the census data relative to all of the farm crops of 1919 and 1909, including the percentage of increase for the decade in acreage, production, and value.

In comparing one year with another it should be borne in mind that the acreage of crops (or the number

of fruit trees) and the number of farms reporting are on the whole a better index of the general changes or tendencies in agriculture than either the quantity or the value of the crops, since variations in quantity may be due mainly to favorable or unfavorable seasons, and variations in the value of the crops may result largely from changes in prices between one census year and the next.

TABLE 32.—SUMMARY FOR ALL CROPS: 1919 AND 1909.

| CROP. | FARMS REPORTING. | | | | ACRES HARVESTED. | | | PRODUCTION. | | | | | | | |
|---|------------------|--------|------------------------|------------------|------------------|------------|------------------------------------|-------------|-------------|-------------|------------------------------------|------|---------------|------------------------------------|-------|
| | Number. | | Per cent of all farms. | | 1919 | 1909 | Per cent of increase. ¹ | Quantity. | | | Value. | | | | |
| | 1919 | 1909 | 1919 | 1909 | | | | Unit. | 1919 | 1909 | Per cent of increase. ¹ | 1919 | 1909 | Per cent of increase. ¹ | |
| All crops..... | | | | | 19,422,463 | 15,888,280 | 22.2 | | | | | | \$301,782,935 | \$180,201,654 | 67.4 |
| With acreage reports..... | | | | | | | | | | | | | 295,030,991 | 180,201,654 | 64.2 |
| With no acreage reports..... | | | | | | | | | | | | | 5,845,944 | 100,901 | ..... |
| Cereals, total..... | 10,408 | 15,025 | 13.4 | 20.2 | 14,929,806 | 11,887,141 | 25.6 | Bu. | 124,646,484 | 217,246,973 | -42.6 | | 215,784,634 | 149,133,451 | 44.7 |
| Corn..... | 51,160 | 56,903 | 65.9 | 76.5 | 191,428 | 185,122 | 3.4 | Bu. | 3,876,883 | 4,941,152 | -21.5 | | 5,427,626 | 2,403,303 | 125.8 |
| Oats..... | 67,724 | 69,365 | 87.2 | 79.8 | 2,078,162 | 2,147,032 | -3.4 | Bu. | 30,294,074 | 65,886,702 | -54.0 | | 24,235,260 | 24,114,345 | 0.5 |
| Wheat, total..... | 435 | 874 | 0.6 | 1.2 | 9,098,042 | 8,188,782 | 11.1 | Bu. | 61,540,404 | 116,781,886 | -47.3 | | 147,090,970 | 109,129,809 | 35.3 |
| Winter..... | 69,444 | 6,428 | 89.4 | ..... | 28,613 | 93,078 | -69.3 | Bu. | 160,500 | 1,294,743 | -87.6 | | 385,200 | 1,234,720 | -68.8 |
| Spring..... | 2,703 | 33,167 | 3.5 | 8.6 | 9,069,429 | 8,095,704 | 12.0 | Bu. | 61,379,904 | 115,487,143 | -46.9 | | 147,311,770 | 107,895,149 | 35.5 |
| Emmer and spelt..... | 32,837 | 33,167 | 42.3 | 44.0 | 49,682 | 101,144 | -50.9 | Bu. | 513,865 | 2,564,732 | -80.0 | | 822,183 | 1,102,782 | -25.4 |
| Barley..... | 35,041 | 1,403 | 45.1 | 2.0 | 1,085,320 | 1,315,811 | -10.7 | Bu. | 12,052,881 | 26,365,768 | -54.3 | | 13,860,815 | 11,962,030 | 15.9 |
| Rye..... | 41 | 74 | 0.1 | 0.1 | 2,422,563 | 48,188 | ..... | Bu. | 16,294,377 | 689,233 | ..... |  | 23,626,848 | 411,728 | ..... |
| Buckwheat..... | 14 | 8 | (^b) | (^b) | 1,286 | 1,039 | 23.8 | Bu. | 7,368 | 17,006 | -56.8 | | 14,730 | 9,135 | 61.3 |
| Kafir and milo..... | 235 | ..... | 0.3 | ..... | 434 | 23 | ..... | Bu. | 1,152 | 444 | 159.5 | | 1,612 | 253 | 537.2 |
| Mixed crops ⁴ | | | | | 7,900 | ..... | ..... | Bu. | 65,480 | ..... | ..... |  | 78,574 | ..... | ..... |
| Other grains and seeds with acreage reports, total ⁵ | | | | | 650,886 | 1,069,019 | -39.1 | Bu. | 2,978,387 | 10,256,561 | -71.0 | | 13,256,789 | 15,509,897 | -14.5 |
| Dry edible beans..... | 270 | 304 | 0.3 | 0.5 | 743 | 544 | 36.0 | Bu. | 4,860 | 5,073 | -4.2 | | 26,768 | 12,862 | 100.3 |
| Soy beans..... | 10 | ..... | (^c) | ..... | 37 | ..... | ..... | Bu. | 110 | ..... | ..... |  | 498 | ..... | ..... |
| Dry peas..... | 18 | 103 | (^d) | 0.1 | 144 | 399 | -63.9 | Bu. | 1,088 | 5,543 | -80.4 | | 4,027 | 8,368 | -51.9 |
| Flaxseed..... | 10,185 | 30,632 | 24.7 | 41.2 | 649,949 | 1,068,049 | -39.1 | Bu. | 2,972,082 | 10,245,684 | -71.0 | | 13,225,765 | 15,488,016 | -14.6 |
| Seeds with no acreage reports, total ⁶ | | | | | | | | Bu. | 350,640 | 74,162 | 372.8 | | 2,326,420 | 100,099 | ..... |
| Red clover seed..... | 71 | ..... | 0.1 | ..... | ..... | ..... | ..... | Bu. | 1,705 | 807 | ..... |  | 47,740 | 6,878 | ..... |
| Other clover and alfalfa seed..... | 630 | ..... | 0.8 | ..... | ..... | ..... | ..... | Bu. | 54,066 | ..... | ..... |  | 1,351,650 | ..... | ..... |
| Timothy seed..... | 745 | 437 | 1.0 | 0.0 | ..... | ..... | ..... | Bu. | 47,355 | 30,020 | 57.7 | | 269,924 | 47,985 | 462.5 |
| Other grass seed..... | 383 | 96 | 0.5 | 0.1 | ..... | ..... | ..... | Bu. | 81,039 | 13,932 | 481.7 | | 324,166 | 17,077 | ..... |
| Millet seed..... | 953 | 244 | 1.2 | 0.3 | ..... | ..... | ..... | Bu. | 166,476 | 29,403 | 466.2 | | 332,050 | 27,084 | ..... |
| Hay and forage, total ⁷ | 67,005 | 55,602 | 86.2 | 74.9 | 4,035,803 | 2,864,244 | ..... | Tons. | 3,765,377 | 3,010,582 | ..... |  | 56,555,024 | 12,369,030 | ..... |
| All tame or cultivated grasses..... | | | | | 543,764 | 331,647 | 42.5 | Tons. | 606,491 | 468,226 | 29.5 | | 10,441,637 | 2,401,066 | 334.9 |
| Timothy alone..... | 7,600 | 6,930 | 9.8 | 9.3 | 189,553 | 183,086 | 3.2 | Tons. | 172,757 | 197,947 | -12.7 | | 2,764,112 | 1,046,470 | 164.1 |
| Timothy and clover mixed..... | 793 | 972 | 1.0 | 1.3 | 20,634 | 34,068 | -39.4 | Tons. | 20,957 | 39,724 | -47.2 | | 314,355 | 202,325 | 55.4 |
| Clover alone..... | 726 | 116 | 0.9 | 0.2 | 10,791 | 1,172 | 820.7 | Tons. | 12,789 | 1,389 | 822.7 | | 198,244 | 7,755 | ..... |
| Alfalfa..... | 4,821 | 467 | 6.2 | 0.6 | 59,356 | 3,033 | ..... | Tons. | 75,848 | 5,638 | ..... |  | 1,808,362 | 36,050 | ..... |
| Other tame grasses ⁸ | 10,999 | ..... | 21.5 | ..... | 264,430 | 169,688 | 65.6 | Tons. | 324,640 | 223,531 | 46.2 | | 5,355,574 | 1,108,486 | 383.2 |
| Wild, salt, or prairie grasses..... | 46,751 | 48,805 | 60.2 | 65.6 | 2,482,461 | 2,393,604 | 3.7 | Tons. | 1,913,303 | 2,372,618 | -19.4 | | 29,665,209 | 9,218,801 | 221.9 |
| Small grains cut for hay..... | 20,347 | 2,916 | 26.2 | 3.9 | 647,888 | 45,628 | ..... | Tons. | 887,290 | 61,507 | 506.4 | | 5,015,717 | 292,030 | ..... |
| Annual legumes cut for hay..... | 1,112 | ..... | 1.4 | ..... | 28,210 | ..... | ..... | Tons. | 22,567 | ..... | ..... |  | 361,072 | ..... | ..... |
| Silage crops..... | 2,031 | ..... | 2.6 | ..... | 48,843 | ..... | ..... | Tons. | 200,624 | ..... | ..... |  | 1,905,942 | ..... | ..... |
| Corn cut for forage ⁹ | 10,503 | ..... | 21.2 | ..... | 278,456 | 43,255 | ..... | Tons. | 619,970 | 108,046 | ..... |  | 8,369,008 | 459,313 | ..... |
| Kafir, sorghum, etc., for forage..... | 385 | ..... | 0.5 | ..... | 5,895 | ..... | ..... | Tons. | 14,041 | ..... | ..... |  | 189,665 | ..... | ..... |
| Root crops for forage..... | 62 | ..... | 0.1 | ..... | 289 | 20 | ..... | Tons. | 1,091 | 185 | 489.7 | | 15,274 | 1,830 | 734.6 |
| Vegetables, total ¹⁰ | 54,221 | 51,389 | 69.8 | 69.1 | 82,501 | 54,067 | 52.7 | Bu. | 4,717,556 | 5,551,430 | -15.0 | | 13,725,227 | 3,148,904 | 336.0 |
| Potatoes (Irish or white)..... | 1,976 | 32,753 | 2.5 | 44.0 | 964 | 13,333 | ..... | Bu. | ..... | ..... | ..... |  | 10,142,747 | 2,079,125 | 387.8 |
| Other vegetables ¹¹ | 51,914 | ..... | 66.8 | ..... | ..... | ..... | ..... | Bu. | ..... | ..... | ..... |  | 116,867 | 1,069,125 | ..... |
| Farm garden ¹² | | | | | | | | Bu. | ..... | ..... | ..... |  | 3,465,623 | ..... | ..... |
| Miscellaneous crops, total..... | | | | | 374 | 27 | ..... | Lbs. | 396,266 | ..... | ..... |  | 59,961 | 1,431 | ..... |
| Hemp..... | 22 | ..... | (^c) | ..... | 373 | ..... | ..... | Lbs. | ..... | ..... | ..... |  | 59,440 | ..... | ..... |
| Sundry minor crops ¹² | | | | | 1 | 27 | ..... | Lbs. | ..... | ..... | ..... |  | 521 | 1,431 | -63.0 |
| Fruits, total..... | | | | | | | | Qts. | 170,771 | 286,690 | -40.2 | | 94,880 | 49,343 | 92.3 |
| Small fruits..... | 3,162 | ..... | 4.1 | ..... | 524 | 399 | 31.3 | Qts. | ..... | ..... | ..... |  | 40,979 | 39,641 | 3.4 |
| Other fruits..... | | | | | | | | Qts. | ..... | ..... | ..... |  | 53,901 | 9,702 | 455.0 |

¹ A minus sign (-) denotes decrease. Per cent not shown when base is less than 100 or when per cent is more than 1,000.
² Excluding 273,455 acres reported for corn cut for forage. This exclusion is made uniformly for all states, by reason of the fact that in the country as a whole, practically the entire acreage in corn cut for forage is duplicated in the acreage of corn harvested for grain.
³ Less than one-tenth of 1 per cent.
⁴ Principally oats and barley grown and harvested together.
⁵ Includes small quantities of broom-corn seed (1919 and 1909) and peanuts (1909).
⁶ The total value for 1909 includes the value of a small quantity of flower and vegetable seeds. The entire acreage from which the grass and clover seeds were secured is believed to be included in the acreage given elsewhere for hay and forage.

⁷ Corn cut for forage was not reported to any extent in 1909; hence no fair comparison between 1919 and 1909 can be made, either for the hay and forage totals or for the bracketed group in which corn cut for forage appears.
⁸ Includes millet and Hungarian grass.
⁹ The total value for 1909 includes the value of a small quantity of sweet potatoes and yams.
¹⁰ The 1919 figures represent vegetables raised for sale only.
¹¹ In 1909 the value of the farm garden was largely included in the value of "other vegetables."
¹² These crops comprise tobacco (1919 and 1909), maple sugar and sirup (value only), broom corn, and sorghum (1909).

The combined acreage of crops harvested in North Dakota in 1919 for which the acreage was reported was 19,422,463, which represents 79.1 per cent of the total improved land in farms (24,563,178 acres). The total crop acreage reported for 1909 was 15,888,280, or 77.7 per cent of the improved land in farms (20,455,092 acres). Most of the remaining improved land doubtless consisted of improved pasture, land lying fallow, house and farm yards, and land occupied by orchards and vineyards, the acreage of which was not reported.

In addition to the crops regularly harvested in 1919, as shown in the tables, there were reported 30,729 acres of mature crops grazed or "hogged off."

Farm value of crops.—At the census of 1920 the farm schedule called for the value of all farm property, including live stock, and the value of live-stock products sold.

In the case of farm crops, however, wherever a unit value could be used, such as the value per bushel or per ton, the farmer was asked to report the acreage and production of each crop but not the value. To supplement the information obtained from the farmers, the Bureau of Crop Estimates of the United States Department of Agriculture secured by special schedule from its crop reporters average values for such crops. These special schedules were tabulated by the Bureau of the Census, and the resulting averages, approved by the Bureau of Crop Estimates as representing a fair average of the farm value per unit, were used in computing most of the crop values presented in the accompanying tables.

TABLE 33.—ACREAGE OF IMPORTANT CROPS: 1879 TO 1919.

| CROP. | 1919 | 1909 | 1899 | 1889 | 1879 ¹ |
|---------------------|-----------|-----------|-----------|-----------|-------------------|
| Corn..... | 191,428 | 185,122 | 62,373 | 11,954 | 898 |
| Oats..... | 2,073,162 | 2,147,032 | 780,517 | 402,855 | 18,311 |
| Wheat..... | 9,098,042 | 8,188,782 | 4,451,251 | 2,709,421 | 84,854 |
| Barley..... | 1,085,320 | 1,215,811 | 287,092 | 109,400 | 2,338 |
| Rye..... | 2,422,568 | 48,188 | 27,095 | 1,568 | ..... |
| Flaxseed..... | 649,949 | 1,088,049 | 773,090 | 43,724 | ..... |
| Hay and forage..... | 4,038,803 | 2,864,244 | 1,410,534 | 558,720 | 22,946 |
| Potatoes..... | 82,561 | 54,067 | 21,936 | 18,262 | ..... |

¹ No data prior to 1879. North Dakota admitted as a state in 1889. Figures for 1879 obtained by consolidating data for counties which then occupied the area now known as North Dakota.

² Includes 278,455 acres in corn cut for forage. This crop was not included to any extent in the hay and forage totals prior to 1919.

TABLE 34.—PERCENTAGES AND AVERAGES FOR IMPORTANT CROPS: 1919 AND 1909.

| CROP. | PERCENT OF IMPROVED LAND OCCUPIED. | | AVERAGE YIELD PER ACRE. | | | AVERAGE VALUE PER ACRE. | |
|---------------------|------------------------------------|------|-------------------------|-----------|-------|-------------------------|---------|
| | 1919 | 1909 | Unit. | 1919 1909 | | 1919 1909 | |
| | | | | 1919 | 1909 | 1919 | 1909 |
| Corn..... | 0.8 | 0.9 | Bu... | 20.3 | 26.7 | \$28.35 | \$12.98 |
| Oats..... | 8.4 | 10.5 | Bu... | 14.6 | 30.7 | 11.69 | 11.23 |
| Wheat..... | 37.0 | 40.0 | Bu... | 6.8 | 14.3 | 16.23 | 13.33 |
| Barley..... | 4.4 | 5.9 | Bu... | 11.1 | 21.7 | 12.77 | 9.84 |
| Rye..... | 9.9 | 0.2 | Bu... | 6.7 | 14.3 | 9.75 | 3.54 |
| Flaxseed..... | 2.6 | 5.2 | Bu... | 4.6 | 9.6 | 20.35 | 14.50 |
| Hay and forage..... | 16.4 | 14.0 | Tons. | 0.93 | 1.05 | 14.01 | 4.32 |
| Potatoes..... | 0.3 | 0.3 | Bu... | 57.1 | 102.7 | 122.85 | 38.45 |

For some products it was not possible to find any satisfactory unit on which to base a computation of the total value. Values were therefore obtained on the 1920 census schedule for vegetables, other than potatoes and sweet potatoes, and for the farm garden.

TABLE 35.—VEGETABLES RAISED FOR SALE: 1919.

[Vegetables other than potatoes and sweet potatoes.]

| CROP. | FARMS REPORTING. | | Acres harvested. | Value of product. |
|---------------------------|------------------|------------------------|------------------|-------------------|
| | Num-ber. | Per cent of all farms. | | |
| Total..... | 1,976 | 2.5 | 964 | \$116,857 |
| Beans (green)..... | 169 | 0.2 | 46 | 3,505 |
| Cabbages..... | 242 | 0.3 | 73 | 11,217 |
| Celery..... | 74 | 0.1 | 15 | 4,718 |
| Corn (sweet)..... | 177 | 0.2 | 116 | 8,287 |
| Cucumbers..... | 496 | 0.6 | 82 | 10,230 |
| Lettuce..... | 66 | 0.1 | 15 | 1,031 |
| Onions..... | 309 | 0.4 | 51 | 15,028 |
| Peas (green)..... | 115 | 0.1 | 32 | 3,302 |
| Tomatoes..... | 256 | 0.3 | 30 | 8,976 |
| Watermelons..... | 170 | 0.2 | 74 | 5,346 |
| All other vegetables..... | ..... | ..... | 22 | 4,683 |
| Mixed vegetables..... | 329 | 0.4 | 309 | 38,989 |

TABLE 36.—SMALL FRUITS: 1919 AND 1909.

| CROP. | FARMS REPORTING. | | Acres harvested. | PRODUCTION. | |
|-----------------------------------|------------------|------------------------|------------------|--------------------|----------|
| | Num-ber. | Per cent of all farms. | | Quantity (quarts). | Value. |
| Total..... | 1919.. 3,162 | 4.1 | 524 | 170,771 | \$40,979 |
| | 1909.. .. | ..... | 389 | 285,696 | 39,641 |
| Strawberries..... | 1919.. 837 | 1.1 | 93 | 47,157 | 10,375 |
| | 1909.. 883 | 1.2 | 88 | 66,028 | 10,445 |
| Raspberries..... | 1919.. 763 | 1.0 | 101 | 38,943 | 11,688 |
| Loganberries..... | 1919.. 6 | (¹) | (²) | 230 | 54 |
| Raspberries and loganberries..... | 1909.. 923 | 1.2 | 85 | 60,742 | 9,141 |
| Blackberries and dewberries..... | 1919.. 96 | 0.1 | 11 | 2,485 | 575 |
| | 1909.. 75 | 0.1 | 2 | 3,404 | 470 |
| Cranberries..... | 1919.. 41 | 0.1 | (²) | 1,255 | 200 |
| | 1909.. 20 | (¹) | (²) | 1,120 | 125 |
| Currants..... | 1919.. 1,758 | 2.3 | 215 | 55,134 | 13,230 |
| | 1909.. 2,378 | 3.2 | 138 | 97,598 | 12,123 |
| Other berries..... | 1919.. 946 | 1.2 | 104 | 25,567 | 4,857 |
| | 1909.. 1,857 | 2.5 | 80 | 56,804 | 7,332 |

¹ Less than one-tenth of 1 per cent.

² Less than 1 acre.

TABLE 37.—FRUIT TREES AND GRAPEVINES NOT OF BEARING AGE: 1920 AND 1910.

| FRUIT. | FARMS REPORTING. | | | | TREES OR VINES NOT OF BEARING AGE. | |
|----------------------------|------------------|-------|------------------------|-------|------------------------------------|---------|
| | Number. | | Per cent of all farms. | | 1920 | 1910 |
| | 1920 | 1910 | 1920 | 1910 | | |
| Orchard fruits, total..... | 2,847 | ..... | 3.7 | ..... | 49,090 | 128,037 |
| Apples..... | 1,926 | 3,906 | 2.5 | 5.3 | 19,694 | 70,023 |
| Peaches..... | 6 | 54 | (²) | 0.1 | 32 | 604 |
| Pears..... | 11 | 61 | (²) | 0.1 | 148 | 327 |
| Plums and prunes..... | 1,419 | 2,320 | 1.8 | 3.1 | 19,852 | 35,459 |
| Cherries..... | 1,031 | 1,837 | 1.4 | 2.5 | 9,364 | 21,434 |
| Grapes..... | 42 | 98 | 0.1 | 0.1 | 463 | 1,484 |

¹ The 1910 figures include apricots, quinces, and mulberries. These fruits were not called for by the 1920 schedule.

² Less than one-tenth of 1 per cent.

TABLE 38.—ORCHARD FRUITS AND GRAPES: 1919 AND 1909.

| FRUIT. | FARMS REPORTING TREES OR VINES OF BEARING AGE. | | | | NUMBER OF TREES OR VINES OF BEARING AGE. | | PRODUCTION. | | | | |
|--|--|-------|------------------------|------------------|--|--------|-------------|--------|-------|----------|---------|
| | Number. | | Per cent of all farms. | | 1920 | 1910 | Quantity. | | | Value. | |
| | 1920 | 1910 | 1920 | 1910 | | | Unit. | 1919 | 1909 | 1919 | 1909 |
| Orchard fruits, total ¹ | 3,884 | | 5.0 | | 83,812 | 40,296 | Bu.... | 21,940 | 5,685 | \$53,882 | \$9,688 |
| Apples..... | 2,643 | 1,248 | 3.4 | 1.7 | 26,157 | 15,941 | Bu.... | 14,358 | 4,374 | 35,907 | 7,270 |
| Peaches..... | 5 | 14 | (²) | (²) | 38 | 90 | Bu.... | 3 | 35 | 9 | 71 |
| Pears..... | 22 | 5 | (²) | (²) | 486 | 24 | Bu.... | 83 | 8 | 210 | 15 |
| Plums and prunes..... | 2,282 | 737 | 2.9 | 1.0 | 41,254 | 19,147 | Bu.... | 5,680 | 1,048 | 11,320 | 1,896 |
| Cherries..... | 1,379 | 410 | 1.8 | 0.6 | 15,877 | 5,076 | Bu.... | 1,836 | 209 | 6,436 | 446 |
| Grapes..... | 19 | 20 | (²) | (²) | 152 | 379 | Lbs.... | 217 | 360 | 19 | 14 |

¹ The figures for 1910 and 1909 include apricots and quinces. These fruits were not called for by the 1920 schedule.
² Less than one-tenth of 1 per cent.

Age of farmers.—A farmer or farm operator, as defined for census purposes, is a person who operates a farm. The number of farm operators, for which the age distribution is shown in the following table, is therefore the same as the number of farms.

TABLE 39.—FARM OPERATORS CLASSIFIED ACCORDING TO AGE AND TENURE: 1920 AND 1910.

| AGE. | TOTAL. | | OWNERS. | | MAN-AGERS. | | TENANTS. | |
|------------------------|-----------------------|--------|---------|--------|------------|------|----------|--------|
| | 1920 | 1910 | 1920 | 1910 | 1920 | 1910 | 1920 | 1910 |
| | All farmers, total... | 77,690 | 74,360 | 56,917 | 63,212 | 856 | 484 | 19,818 | 10,664 |
| Reporting age..... | 76,923 | 74,240 | 56,354 | 63,125 | 845 | 477 | 19,724 | 10,638 |
| Under 25 years..... | 3,668 | 4,455 | 1,244 | 2,950 | 130 | 67 | 2,204 | 1,438 |
| 25 to 34 years..... | 20,176 | 23,924 | 11,166 | 19,388 | 323 | 180 | 8,087 | 4,356 |
| 35 to 44 years..... | 23,122 | 20,751 | 17,941 | 17,914 | 197 | 137 | 4,934 | 2,700 |
| 45 to 54 years..... | 17,291 | 15,210 | 14,630 | 13,741 | 138 | 60 | 2,514 | 1,409 |
| 55 to 64 years..... | 9,468 | 7,488 | 8,420 | 6,847 | 47 | 28 | 992 | 613 |
| 65 years and over..... | 3,198 | 2,412 | 2,935 | 2,285 | 10 | 5 | 253 | 122 |
| Not reporting age..... | 787 | 120 | 563 | 87 | 10 | 7 | 194 | 26 |

Farmers classified by number of years on farm.—In the following table the farmers of the state are classified according to the number of years they had been on the farms which they were operating when the census was taken. The purpose of this classification is to show the relative stability of the different classes.

In 1920 the date of enumeration (January 1) came just before the period during which changes from one farm to another are commonly made in most localities, and hence at a time when many farmers had almost, but not quite, completed one, two, or more years on their farms. Considerable numbers of these farmers reported one, two, or more full years, in place of reporting the correct number of months (or years and months). In 1910, however, the enumeration date (April 15) was late enough so that, in localities where the common moving time was in the early part of the year, the number of years of occupancy was accurately reported. These differences seriously affect the comparability of the returns, especially for the first two years of occupancy. Hence these two years, which were tabulated separately and are so published in Volume V of the Fourteenth Census Reports, have been combined in the following table.

TABLE 40.—FARM OPERATORS CLASSIFIED ACCORDING TO NUMBER OF YEARS ON FARM, BY TENURE: 1920 AND 1910.

| NUMBER OF YEARS ON FARM. | TOTAL. | | OWNERS. | | MAN-AGERS. | | TENANTS. | |
|--------------------------|-----------------------|--------|---------|--------|------------|------|----------|--------|
| | 1920 | 1910 | 1920 | 1910 | 1920 | 1910 | 1920 | 1910 |
| | All farmers, total... | 77,690 | 74,360 | 56,917 | 63,212 | 856 | 484 | 19,818 | 10,664 |
| Rptg. years on farm..... | 76,112 | 64,546 | 56,102 | 54,223 | 783 | 423 | 19,227 | 9,900 |
| Less than 2 years..... | 14,140 | 13,474 | 5,438 | 8,122 | 445 | 219 | 8,257 | 5,133 |
| 2 to 4 years..... | 16,366 | 21,125 | 9,727 | 17,441 | 182 | 116 | 6,457 | 3,569 |
| 5 to 9 years..... | 13,447 | 15,549 | 10,320 | 14,580 | 76 | 57 | 3,042 | 912 |
| 10 years and over..... | 32,159 | 14,397 | 30,608 | 14,080 | 80 | 31 | 1,471 | 286 |
| Not reporting..... | 1,578 | 9,814 | 815 | 8,989 | 72 | 61 | 601 | 764 |

Cooperative marketing and purchasing.—Cooperative marketing of farm products or cooperative purchasing of supplies through farmers' organizations in 1919 was reported by 19,814 farms in North Dakota, including 10,203 farms which reported both sales and purchases,

7,235 farms which reported sales only, and 2,376 farms which reported purchases only.

TABLE 41.—COOPERATIVE MARKETING AND PURCHASING THROUGH FARMERS' ORGANIZATIONS: 1919.

| ITEM. | FARMS REPORTING. | | AMOUNT. | |
|------------------------------|------------------|------------------------|--------------|-------------------|
| | Number. | Per cent of all farms. | Total. | Average per farm. |
| Marketing or purchasing..... | 19,814 | 25.5 | | |
| Marketing..... | 17,438 | 22.4 | \$24,484,558 | \$1,404 |
| Purchasing..... | 12,579 | 16.2 | 8,840,811 | 306 |

Farm facilities—Motor vehicles, telephones, water, and light on farms.—The following table indicates the extent to which the farmers of North Dakota used motor vehicles and telephones, and the extent to which the farm homes were supplied with water and modern lighting facilities.

TABLE 42.—MOTOR VEHICLES, TELEPHONES, WATER, AND LIGHT ON FARMS: 1920.

| ITEM. | FARMS REPORTING. | | Number reported. | Number per 1,000 of all farms. |
|-----------------------------|------------------|------------------------|------------------|--------------------------------|
| | Number. | Per cent of all farms. | | |
| Automobiles..... | 44,010 | 56.6 | 47,711 | 612 |
| Motor trucks..... | 743 | 1.0 | 774 | 10 |
| Tractors..... | 11,834 | 15.2 | 13,006 | 167 |
| Telephones..... | 36,349 | 46.8 | | |
| Water piped into house..... | 4,984 | 6.0 | | |
| Gas or electric light..... | 4,518 | 5.8 | | |

Pure-bred live stock on farms.—The inquiry relating to pure-bred live stock called for registered animals only, but it seems evident, from a study of the returns, that some animals merely eligible for registry (but not actually registered) were included in the reports.

The number of farms in North Dakota in 1920 was 77,690, of which number 76,110 reported domestic animals of some kind and 13,535 reported pure-bred live stock.

TABLE 43.—PURE-BRED LIVE STOCK CLASSIFIED ACCORDING TO BREED: 1920.

NOTE.—Pure-bred horses reported in North Dakota represented 0.7 per cent of all horses on farms (see Table 23); pure-bred cattle, 2.5 per cent of the total; pure-bred sheep, 1.7 per cent; and pure-bred swine, 4.8 per cent.

| BREED. | Number. | BREED. | Number. |
|---|---------------|-------------------------------------|---------------|
| Horses, total..... | 5,636 | Sheep, total..... | 4,989 |
| Belgian..... | 468 | Hampshire Down..... | 427 |
| Clydesdale..... | 307 | Lincoln..... | 108 |
| French Draft..... | 98 | Oxford..... | 428 |
| German Coach..... | 34 | Rambouillet..... | 150 |
| Percheron..... | 4,254 | Shropshire..... | 3,583 |
| Shire..... | 172 | All other breeds ¹ | 284 |
| All other breeds ¹ | 303 | | |
| Cattle, total..... | 33,821 | Swine, total..... | 22,075 |
| Beef breeds, total..... | 29,024 | Berkshire..... | 710 |
| Aberdeen Angus..... | 3,124 | Chester White..... | 3,840 |
| Duroc-Jersey..... | 10,152 | Hampshire..... | 388 |
| Galloway..... | 1,183 | Poland China..... | 6,154 |
| Hereford..... | 7,089 | Spotted Poland China..... | 13 |
| Polled Durham..... | 1,359 | Yorkshire..... | 408 |
| Shorthorn..... | 14,723 | All other breeds ¹ | 361 |
| All other beef breeds ¹ | 2,540 | | |
| Dairy breeds, total..... | 4,797 | | |
| Ayrshire..... | 226 | | |
| Brown Swiss..... | 23 | | |
| Guernsey..... | 346 | | |
| Holstein-Friesian..... | 2,937 | | |
| Jersey..... | 481 | | |
| All other dairy breeds ¹ | 784 | | |

¹ Includes animals reported as pure bred, with breed not specified.

Calves, pigs, and lambs raised on farms.—The figures presented include young animals born in 1919, which were retained on the farm, sold to others, or slaughtered for food, but do not include young animals purchased or those that died.

TABLE 44.—CALVES, PIGS, AND LAMBS RAISED ON FARMS: 1919.

| ITEM. | FARMS REPORTING. | | ANIMALS RAISED. | |
|-------------|------------------|------------------------|-----------------|-------------------|
| | Number. | Per cent of all farms. | Number. | Average per farm. |
| Calves..... | 64,686 | 83.3 | 422,883 | 6.5 |
| Pigs..... | 43,425 | 55.9 | 620,898 | 14.3 |
| Lambs..... | 4,089 | 5.3 | 99,460 | 24.3 |

Domestic animals sold or slaughtered on farms.—The number of cattle, swine, and sheep slaughtered on farms was reported for both 1919 and 1909, but the farm schedule for 1919 carried no inquiry with regard to the value of the animals slaughtered, or with regard to the number or value of the animals sold by farmers. The total value of domestic animals sold or slaughtered on farms in North Dakota in 1919 has been estimated, however, at \$34,900,000, as compared with \$14,456,748, the value reported for 1909.

TABLE 45.—DOMESTIC ANIMALS SLAUGHTERED ON FARMS: 1919 AND 1909.

| ITEM AND CENSUS YEAR. | FARMS REPORTING. | | ANIMALS SLAUGHTERED. | | Meat and meat products sold (pounds). |
|------------------------------|------------------|------------------------|----------------------|-------------------|---------------------------------------|
| | Number. | Per cent of all farms. | Number. | Average per farm. | |
| Cattle and calves.....1919.. | 29,660 | 38.2 | 44,426 | 1.5 | 3,141,414 |
|1909.. | ..... | ..... | 45,989 | ..... |  |
| Cattle.....1919.. | 19,714 | 26.5 | 31,570 | 1.6 | ..... |
|1909.. | 7,992 | 10.7 | 14,419 | 1.8 | |
| Swine.....1919.. | 58,206 | 74.9 | 216,637 | 3.7 | 3,326,483 |
|1909.. | 37,893 | 51.0 | 186,227 | 3.6 | |
| Sheep and lambs.....1919.. | 2,301 | 3.0 | 7,423 | 3.2 | 54,287 |
|1909.. | 927 | 1.2 | 4,342 | 4.7 | |

Sales of selected crops.—The sales of the crops listed represent that part of the year's production which was sold, or to be sold, by those farmers who produced the crops.

TABLE 46.—PRODUCTION AND SALES OF SELECTED CROPS: 1919 AND 1909.

| CROP AND CENSUS YEAR. | Farms reporting production. | FARMS REPORTING SALES. | | Production. | QUANTITY SOLD (OR TO BE SOLD). | |
|-----------------------|-----------------------------|------------------------|---|-----------------|--------------------------------|-------------------------|
| | | Number. | Per cent of farms reporting production. | | Amount. | Per cent of production. |
| Corn.....1919.. | 10,408 | 630 | 6.1 | <i>Bushels.</i> | <i>Bushels.</i> | 5.5 |
| | | | | 3,876,883 | 212,797 | |
|1909.. | 15,025 | 760 | 5.1 | 4,941,152 | 140,769 | 2.8 |
| Oats.....1919.. | 51,160 | 4,116 | 8.0 | 20,294,074 | 2,289,202 | 7.6 |
| | | | | 65,886,702 | 6,135,574 | 9.3 |
|1909.. | 56,903 | 10,096 | 17.7 | 12,052,881 | 2,969,279 | 24.6 |
| Barley.....1919.. | 32,837 | 7,055 | 21.5 | 26,365,758 | 8,552,914 | 32.4 |
| | | | |1909.. | 33,167 | 11,234 |
| Hay.....1919.. | ..... | ..... | ..... | <i>Tons.</i> | <i>Tons.</i> | 5.4 |
| | | | | 2,929,651 | 153,008 | |
|1909.. | ..... | ..... | ..... | 2,902,351 | 63,332 | 2.2 |
| Potatoes.....1919.. | 54,221 | 5,997 | 11.1 | <i>Bushels.</i> | <i>Bushels.</i> | 42.3 |
| | | | | 4,717,556 | 1,993,741 | |
|1919.. | ..... | 212 | ..... | 14,358 | 2,654 | 18.5 |

Fruit products of farms.—The figures relate only to fruit products obtained from fruit grown on those farms reporting the products.

TABLE 47.—FRUIT PRODUCTS (FARM PRODUCTION): 1919 AND 1909.

| ITEM. | Farms reporting. | Production. |
|--|------------------|-----------------|
| Cider..... | 1919 1909 | <i>Gallons.</i> |
| Cider made (or to be made) into vinegar..... | 1919 | ..... |
| Vinegar made on farms ¹ | 1909 | 44 |
| Grape juice..... | 1919 | ..... |
| Wine and grape juice..... | 1909 | 11 |
| Dried fruits..... | 1919 | <i>Pounds.</i> |
| ..... | 1909 | 2 |
| ..... | ..... | 106 |

¹ Includes vinegar other than that made from cider.

Forest products of farms.—Forest products, as defined on the farm schedule, include firewood, fence posts, crossties, pulp wood, saw logs, poles, etc., and standing timber sold and cut during the years indicated. The figures cover only forest products of farms and do not represent by any means the total value of all forest products cut in the state during the census years.

TABLE 48.—FOREST PRODUCTS OF FARMS: 1919 AND 1909.

| ITEM. | 1919 | 1909 |
|---|-----------|-----------|
| Forest products of farms: | | |
| Farms reporting..... | 1,916 | 2,803 |
| Per cent of all farms..... | 2.5 | 3.8 |
| Value..... | \$206,317 | \$235,356 |
| Average per farm reporting..... | \$108 | \$84 |
| Forest products sold from farms (or cut and held for sale): | | |
| Farms reporting..... | 439 | ..... |
| Value..... | \$54,057 | \$74,557 |
| Average per farm reporting..... | \$123 | ..... |
| Forest products used on farms (or cut and held for use): | | |
| Farms reporting..... | 1,869 | ..... |
| Value..... | \$152,260 | \$160,829 |
| Average per farm reporting..... | \$81 | ..... |

Nurseries and greenhouses.—The data presented for nurseries include the returns from all farms and establishments reporting receipts from the sale of nursery stock, and those for greenhouses include the returns from all farms and establishments reporting receipts from the sale of greenhouse products (whether grown in hothouses or in cold frames).

TABLE 49.—NURSERIES AND GREENHOUSES: 1919 AND 1909.

| ITEM. | 1919 | 1909 |
|---|-----------|----------|
| Nurseries: | | |
| Number of nurseries (farms and establishments) reporting..... | 16 | 49 |
| Acreage used for growing nursery stock..... | 388 | 472 |
| Receipts from sale of products..... | \$30,088 | \$30,997 |
| Average receipts per nursery..... | \$1,881 | \$633 |
| Average receipts per acre..... | \$77.55 | \$65.67 |
| Greenhouses: | | |
| Number of farms and establishments reporting..... | 18 | 16 |
| Square feet under glass..... | 179,212 | 70,670 |
| Receipts from sale of products..... | \$156,617 | \$47,221 |
| Flowers and flowering plants..... | \$141,700 | ..... |
| Vegetables and vegetable plants..... | \$14,911 | ..... |
| Average receipts per farm or establishment..... | \$8,701 | \$2,951 |

AGRICULTURE—NORTH DAKOTA.

COUNTY TABLE I.—FARMS AND FARM PROPERTY, 1920,

Table with columns for county names (The State, Adams, Barnes, Benson, Billings, Bottineau, Bowman, Burke, Burleigh) and rows categorized by 'ALL FARMS', 'LAND AND FARM AREA', 'VALUE OF FARM PROPERTY', 'FARMS OPERATED BY OWNERS', and 'FARMS OPERATED BY MANAGERS' and 'TENANTS'.

1 Adams County organized from part of Stark County in 1907.

2 Parts of Billings County taken to form part of McKenzie County in 1905, Bowman County in 1907, Golden Valley County in 1912, and Slope County in 1915

3 Burke County organized from part of Ward County in 1910.

AGRICULTURE—NORTH DAKOTA.

COUNTY TABLE II.—LIVE STOCK ON FARMS AND RANGES,

Table showing live stock counts and values on farms and ranges. Includes sections for DOMESTIC ANIMALS: 1920, POULTRY AND BEES: 1920, and LIVE STOCK PRODUCTS: 1919. Columns represent different counties: Burleigh, Cass, Cavaller, Dickey, Divide, Dumm, Eddy, Emmons, Foster.

1 Value of milk, cream, and butter fat sold, and of butter and cheese made on farms.

COUNTY TABLE III.—DOMESTIC ANIMALS

Table showing domestic animals reported. Columns represent different counties: Burleigh, Cass, Cavaller, Dickey, Divide, Dumm, Eddy, Emmons, Foster. Rows include Inclosures reporting domestic animals, Horses, Mules, Asses and burros, Cattle, Sheep, Goats, and Swine.

COUNTY TABLE II.—LIVE STOCK ON FARMS AND RANGES,

| | Mountrail. | Nelson. | Oliver. | Pembina. | Pierce. | Ramsey. | Ransom. | Renville. | Mehlend. |
|-----------------------------------|------------|---------|---------|----------|---------|---------|---------|-----------|----------|
| DOMESTIC ANIMALS: 1920. | | | | | | | | | |
| 1 | | | | | | | | | |
| 2 | | | | | | | | | |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |
| 6 | | | | | | | | | |
| 7 | | | | | | | | | |
| 8 | | | | | | | | | |
| 9 | | | | | | | | | |
| 10 | | | | | | | | | |
| 11 | | | | | | | | | |
| 12 | | | | | | | | | |
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| 24 | | | | | | | | | |
| 25 | | | | | | | | | |
| 26 | | | | | | | | | |
| 27 | | | | | | | | | |
| 28 | | | | | | | | | |
| 29 | | | | | | | | | |
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| 32 | | | | | | | | | |
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| 34 | | | | | | | | | |
| 35 | | | | | | | | | |
| 36 | | | | | | | | | |
| 37 | | | | | | | | | |
| 38 | | | | | | | | | |
| 39 | | | | | | | | | |
| 40 | | | | | | | | | |
| 41 | | | | | | | | | |
| 42 | | | | | | | | | |
| 43 | | | | | | | | | |
| 44 | | | | | | | | | |
| 45 | | | | | | | | | |
| 46 | | | | | | | | | |
| POULTRY AND BEES: 1920. | | | | | | | | | |
| 47 | | | | | | | | | |
| 48 | | | | | | | | | |
| 49 | | | | | | | | | |
| 50 | | | | | | | | | |
| 51 | | | | | | | | | |
| LIVE-STOCK PRODUCTS: 1919. | | | | | | | | | |
| 52 | | | | | | | | | |
| 53 | | | | | | | | | |
| 54 | | | | | | | | | |
| 55 | | | | | | | | | |
| 56 | | | | | | | | | |
| 57 | | | | | | | | | |
| 58 | | | | | | | | | |
| 59 | | | | | | | | | |
| 60 | | | | | | | | | |
| 61 | | | | | | | | | |
| 62 | | | | | | | | | |
| 63 | | | | | | | | | |
| 64 | | | | | | | | | |
| 65 | | | | | | | | | |
| 66 | | | | | | | | | |
| 67 | | | | | | | | | |
| 68 | | | | | | | | | |
| 69 | | | | | | | | | |
| 70 | | | | | | | | | |
| 71 | | | | | | | | | |
| 72 | | | | | | | | | |
| 73 | | | | | | | | | |

1 Value of milk, cream, and butter fat sold, and of butter and cheese made on farms.

COUNTY TABLE III.—DOMESTIC ANIMALS

| | | | | | | | | | | |
|---|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | Inclosures reporting domestic animals..... | 179 | 150 | 39 | 349 | 132 | 204 | 220 | 52 | 348 |
| 2 | Horses, total number..... | 508 | 354 | 105 | 564 | 276 | 373 | 421 | 176 | 581 |
| 3 | Mules, total number..... | 9 | 5 | ..... | 6 | ..... | 9 | 4 | 10 | 14 |
| 4 | Asses and burros, total number..... | ..... | 1 | ..... | ..... | ..... | ..... | ..... | ..... | 3 |
| 5 | Cattle, total number..... | 482 | 228 | 86 | 603 | 322 | 431 | 444 | 90 | 515 |
| 6 | Dairy cows..... | 292 | 145 | 58 | 409 | 206 | 284 | 249 | 61 | 391 |
| 7 | Sheep, total number..... | 11 | 3 | 4 | 33 | 16 | 2 | 36 | ..... | 6 |
| 8 | Goats, total number..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 9 | Swine, total number..... | 75 | 72 | 23 | 125 | 155 | 90 | 302 | 50 | 184 |

COUNTY TABLE IV.—VALUE OF ALL CROPS, AND ACREAGE

| | THE STATE. | Adams. | Barnes. | Benson. | Billings. | Bottineau. | Bowman. | Burke. | |
|---|---|-------------|---------|------------|-----------|------------|-----------|---------|-----------|
| VALUE OF ALL CROPS. | | | | | | | | | |
| 1 | Total.....dollars.. | 301,782,935 | 975,150 | 12,259,175 | 9,461,835 | 343,430 | 5,444,419 | 311,478 | 4,182,579 |
| 2 | Cereals.....dollars.. | 215,764,634 | 577,871 | 8,802,280 | 7,636,023 | 106,532 | 4,312,204 | 158,860 | 3,153,424 |
| 3 | Other grains and seeds.....dollars.. | 15,583,209 | 36,967 | 671,377 | 362,077 | 9,780 | 62,393 | 5,062 | 200,905 |
| 4 | Hay and forage.....dollars.. | 56,555,024 | 306,234 | 2,341,627 | 1,233,402 | 193,684 | 839,027 | 129,224 | 662,220 |
| 5 | Vegetables.....dollars.. | 13,725,227 | 54,015 | 417,109 | 229,071 | 33,331 | 229,740 | 18,295 | 162,854 |
| 6 | Fruits.....dollars.. | 94,880 | 63 | 5,313 | 1,257 | 103 | 1,055 | 37 | 176 |
| 7 | All other crops.....dollars.. | 59,961 | | 21,480 | | | | | |
| SELECTED CROPS (acres harvested and production). | | | | | | | | | |
| Cereals: | | | | | | | | | |
| 8 | Total.....acres.. | 14,929,806 | 94,180 | 496,802 | 423,301 | 21,211 | 408,656 | 38,627 | 265,770 |
| 9 |bushels.. | 124,646,484 | 238,604 | 5,133,639 | 4,316,154 | 50,881 | 2,392,495 | 76,468 | 1,749,999 |
| 10 | Corn.....acres.. | 191,428 | 2,657 | 5,791 | 365 | 62 | 847 | 410 | 287 |
| 11 |bushels.. | 3,876,883 | 22,075 | 99,255 | 9,532 | 286 | 12,780 | 2,416 | 2,886 |
| 12 | Oats.....acres.. | 2,073,162 | 8,451 | 79,403 | 63,136 | 1,829 | 38,827 | 1,917 | 42,825 |
| 13 |bushels.. | 30,294,074 | 35,641 | 1,323,911 | 1,127,845 | 7,964 | 244,961 | 4,756 | 520,068 |
| 14 | Wheat.....acres.. | 9,098,042 | 71,357 | 317,552 | 255,695 | 18,231 | 274,857 | 27,890 | 185,932 |
| 15 |bushels.. | 61,640,404 | 196,690 | 2,583,016 | 2,291,852 | 40,375 | 1,071,935 | 54,082 | 1,036,043 |
| 16 | Barley.....acres.. | 1,085,329 | 3,812 | 53,342 | 22,572 | 639 | 9,439 | 659 | 13,138 |
| 17 |bushels.. | 12,052,881 | 11,405 | 772,337 | 229,578 | 1,368 | 48,806 | 1,184 | 90,825 |
| 18 | Rye.....acres.. | 2,422,563 | 7,411 | 40,038 | 79,852 | 450 | 84,382 | 7,502 | 23,255 |
| 19 |bushels.. | 16,294,877 | 21,439 | 342,977 | 632,135 | 888 | 1,013,591 | 12,756 | 97,529 |
| 20 | Buckwheat.....acres.. | 1,280 | 44 | 2 | 100 | | | | |
| 21 |bushels.. | 7,368 | 136 | 30 | 560 | | | | |
| 22 | Kafir, milo, etc.....acres.. | 434 | | | | | | | 83 |
| 23 |bushels.. | 1,152 | | 719 | | | | | 166 |
| 24 | Emmer and spelt.....acres.. | 49,662 | 303 | 719 | 1,259 | | 239 | 199 | 172 |
| 25 |bushels.. | 513,865 | 1,152 | 12,088 | 21,622 | | 1,097 | 1,224 | 1,665 |
| Other grains and seeds: | | | | | | | | | |
| 26 | Dry edible beans.....acres.. | 743 | 12 | 14 | | | | | |
| 27 |bushels.. | 4,860 | 12 | 62 | | | | | |
| 28 | Flaxseed.....acres.. | 649,949 | 2,950 | 23,990 | 14,972 | 1,475 | 4,766 | 76 | 11,397 |
| 29 |bushels.. | 2,972,082 | 7,709 | 132,751 | 76,150 | 2,181 | 8,025 | 167 | 43,766 |
| Hay and forage: | | | | | | | | | |
| 30 | Total.....acres.. | 4,035,803 | 44,738 | 91,550 | 65,044 | 38,149 | 93,406 | 30,043 | 45,936 |
| 31 |tons.. | 3,765,377 | 20,241 | 159,130 | 80,534 | 12,380 | 55,851 | 8,679 | 43,430 |
| 32 | All tame or cultivated grasses.....acres.. | 543,794 | 4,248 | 26,199 | 6,840 | 2,372 | 8,950 | 911 | 5,087 |
| 33 |tons.. | 906,491 | 3,494 | 36,954 | 8,089 | 1,531 | 5,821 | 561 | 4,704 |
| 34 | Timothy alone.....acres.. | 189,553 | 40 | 9,481 | 2,513 | 410 | 1,284 | | 853 |
| 35 |tons.. | 172,757 | 35 | 10,086 | 2,481 | 66 | 672 | | 425 |
| 36 | Timothy and clover mixed.....acres.. | 20,634 | | 599 | 89 | 20 | 60 | | 10 |
| 37 |tons.. | 20,957 | | 747 | 102 | 10 | 91 | | 8 |
| 38 | Clover alone.....acres.. | 10,791 | 12 | 686 | 345 | 9 | 153 | | 98 |
| 39 |tons.. | 12,789 | 7 | 918 | 448 | 5 | 91 | | 74 |
| 40 | Alfalfa.....acres.. | 55,356 | 1,122 | 2,444 | 356 | 706 | 308 | 375 | 159 |
| 41 |tons.. | 75,848 | 892 | 3,106 | 596 | 637 | 226 | 283 | 132 |
| 42 | Other tame or cultivated grasses.....acres.. | 204,430 | 3,074 | 13,019 | 3,537 | 1,227 | 7,145 | 536 | 4,662 |
| 43 |tons.. | 321,640 | 2,500 | 22,097 | 4,463 | 813 | 4,741 | 278 | 4,065 |
| 44 | Wild, salt, or prairie grasses.....acres.. | 2,482,461 | 20,775 | 42,103 | 49,203 | 15,498 | 39,272 | 6,452 | 24,001 |
| 45 |tons.. | 1,913,308 | 5,202 | 56,927 | 56,374 | 2,608 | 27,109 | 1,053 | 25,610 |
| 46 | Small grains cut for hay.....acres.. | 647,888 | 15,754 | 5,435 | 5,139 | 14,306 | 45,010 | 20,219 | 14,790 |
| 47 |tons.. | 387,290 | 8,304 | 6,866 | 7,458 | 4,075 | 14,291 | 5,978 | 10,885 |
| 48 | Annual legumes cut for hay.....acres.. | 28,210 | 375 | 112 | 1,493 | 5,005 | 822 | 193 | 113 |
| 49 |tons.. | 22,597 | 371 | 132 | 1,865 | 2,939 | 392 | 67 | 68 |
| 50 | Silage crops.....acres.. | 48,843 | 323 | 2,084 | 1,417 | | 398 | | 102 |
| 51 |tons.. | 200,624 | 951 | 13,689 | 1,385 | | 706 | | 252 |
| 52 | Corn cut for forage.....acres.. | 278,455 | 2,657 | 14,060 | 1,952 | 900 | 4,905 | 2,201 | 1,067 |
| 53 |tons.. | 619,670 | 1,912 | 43,721 | 5,374 | 621 | 7,398 | 1,014 | 1,866 |
| 54 | Kafir, sorghum, etc., for forage.....acres.. | 5,893 | 6 | 307 | | 7 | 32 | 7 | 80 |
| 55 |tons.. | 14,041 | 7 | 841 | | 8 | 41 | 6 | 195 |
| 56 | Root crops for forage.....acres.. | 280 | | | | | 11 | | |
| 57 |tons.. | 1,091 | | | | | 33 | | |
| Vegetables: | | | | | | | | | |
| 58 | Potatoes (Irish or white).....acres.. | 82,661 | 557 | 2,251 | 1,624 | 307 | 1,664 | 265 | 1,028 |
| 59 |bushels.. | 4,717,556 | 13,885 | 142,845 | 67,361 | 7,871 | 60,050 | 4,743 | 46,232 |
| 60 | Other vegetables.....acres.. | 964 | 1 | 8 | 45 | 1 | 7 | | 2 |
| FRUITS. | | | | | | | | | |
| Small fruits: | | | | | | | | | |
| 61 | Total.....acres.. | 524 | 1 | 22 | 14 | | 11 | | 4 |
| 62 |quarts.. | 170,771 | 235 | 9,936 | 4,096 | 6 | 3,674 | 108 | 688 |
| 63 | Strawberries.....acres.. | 93 | | 5 | 1 | | 1 | | 2 |
| 64 |quarts.. | 47,157 | | 2,696 | 667 | 6 | 154 | 46 | 263 |
| 65 | Raspberries.....acres.. | 101 | | 3 | 3 | | 3 | | 1 |
| 66 |quarts.. | 38,943 | | 1,551 | 819 | | 2,319 | 10 | 154 |
| 67 | Currants.....acres.. | 215 | 1 | 10 | 7 | | 5 | | 1 |
| 68 |quarts.. | 55,134 | 105 | 1,015 | 2,046 | | 953 | 52 | 175 |
| Orchard fruits: | | | | | | | | | |
| 69 | Total.....trees not of bearing age.. | 49,060 | 145 | 1,954 | 225 | 53 | 64 | 300 | 76 |
| 70 |trees of bearing age.. | 83,812 | 230 | 5,920 | 1,159 | 161 | 61 | 98 | 83 |
| 71 |bushels harvested.. | 21,940 | 4 | 1,476 | 113 | 41 | 17 | 5 | 5 |
| 72 | Apples.....trees not of bearing age.. | 19,694 | 9 | 861 | 60 | 26 | 7 | 85 | 56 |
| 73 |trees of bearing age.. | 26,157 | | 2,158 | 302 | 33 | 14 | 5 | |
| 74 |bushels harvested.. | 14,358 | | 1,109 | 36 | 40 | 15 | | |
| 75 | Plums and prunes.....trees not of bearing age.. | 19,852 | 130 | 661 | 152 | 21 | 34 | 109 | 6 |
| 76 |trees of bearing age.. | 41,254 | 62 | 2,739 | 707 | 101 | 20 | 51 | 79 |
| 77 |bushels harvested.. | 5,660 | 1 | 273 | 93 | 1 | 1 | 4 | 4 |
| 78 | Cherries.....trees not of bearing age.. | 9,364 | 6 | 420 | 14 | 6 | 23 | 106 | 14 |
| 79 |trees of bearing age.. | 15,877 | 168 | 1,093 | 136 | 27 | 27 | 37 | 4 |
| 80 |bushels harvested.. | 1,836 | 3 | 94 | 14 | | 1 | 1 | 1 |

AGRICULTURE—NORTH DAKOTA.

COUNTY TABLE IV.—VALUE OF ALL CROPS, AND ACREAGE

| | | Kidder. | La Moure. | Logan. | McHenry. | McIntosh. | McKenzie. | McLean. | Mercer. | Morton. |
|--|----------------------------------|------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| VALUE OF ALL CROPS. | | | | | | | | | | |
| 1 | Total | dollars. 3,012,964 | 6,351,886 | 3,297,077 | 4,510,433 | 4,361,525 | 2,222,977 | 7,561,451 | 2,061,554 | 3,852,904 |
| 2 | Cereals | dollars. 1,344,140 | 4,171,514 | 1,947,683 | 2,819,453 | 2,995,577 | 1,048,008 | 5,374,146 | 1,479,279 | 2,771,748 |
| 3 | Other grains and seeds | dollars. 255,693 | 230,973 | 194,490 | 57,376 | 307,618 | 116,336 | 596,908 | 102,060 | 85,289 |
| 4 | Hay and forage | dollars. 1,340,755 | 1,713,948 | 1,080,244 | 1,452,801 | 955,712 | 931,934 | 1,402,252 | 384,406 | 802,166 |
| 5 | Vegetables | dollars. 72,193 | 232,201 | 74,181 | 180,062 | 102,058 | 126,502 | 188,006 | 94,925 | 193,300 |
| 6 | Fruits | dollars. 178 | 3,245 | 479 | 741 | 560 | 197 | 139 | 884 | 397 |
| 7 | All other crops | dollars. 178 | 3,245 | 479 | 741 | 560 | 197 | 139 | 884 | 397 |
| SELECTED CROPS (acres harvested and production). | | | | | | | | | | |
| Cereals: | | | | | | | | | | |
| 8 | Total | acres. 170,623 | 355,056 | 204,798 | 406,728 | 229,004 | 132,330 | 495,589 | 146,592 | 266,375 |
| 9 | acres. | 821,923 | 2,545,162 | 1,111,550 | 1,571,235 | 1,746,601 | 514,729 | 3,021,093 | 762,647 | 1,416,745 |
| 10 | Corn | acres. 2,641 | 5,676 | 1,329 | 1,521 | 3,478 | 496 | 2,750 | 2,276 | 9,384 |
| 11 | bushels. | 43,523 | 138,415 | 26,842 | 18,660 | 57,727 | 5,457 | 46,695 | 30,122 | 121,493 |
| 12 | Oats | acres. 18,503 | 39,483 | 5,874 | 46,639 | 5,177 | 9,124 | 59,918 | 11,021 | 18,898 |
| 13 | bushels. | 173,820 | 598,453 | 64,886 | 272,064 | 60,971 | 70,433 | 647,190 | 83,010 | 129,074 |
| 14 | Wheat | acres. 83,647 | 192,513 | 116,574 | 214,453 | 138,914 | 99,841 | 290,138 | 96,646 | 181,266 |
| 15 | bushels. | 302,672 | 1,023,819 | 485,102 | 766,444 | 662,033 | 368,529 | 1,525,150 | 469,408 | 885,950 |
| 16 | Barley | acres. 9,905 | 27,100 | 32,241 | 7,086 | 43,114 | 1,007 | 17,605 | 10,783 | 17,274 |
| 17 | bushels. | 70,728 | 326,088 | 283,606 | 33,362 | 520,331 | 6,410 | 124,678 | 65,082 | 110,179 |
| 18 | Rye | acres. 54,312 | 88,303 | 46,198 | 136,211 | 35,613 | 20,806 | 121,145 | 21,678 | 38,222 |
| 19 | bushels. | 220,444 | 432,908 | 226,527 | 476,338 | 387,602 | 57,774 | 641,761 | 88,154 | 160,435 |
| 20 | Buckwheat | acres. . | . | . | 107 | . | . | . | . | . |
| 21 | bushels. | . | . | . | 422 | . | . | . | . | 20 |
| 22 | Kafir, milo, etc. | acres. . | . | . | . | . | . | 228 | . | 6 |
| 23 | bushels. | . | . | . | . | . | . | 187 | . | 185 |
| 24 | Emmer and spelt. | acres. 1,395 | 1,665 | 2,582 | 711 | 2,708 | 416 | 3,629 | 3,054 | 1,051 |
| 25 | bushels. | 9,686 | 21,309 | 24,587 | 3,945 | 27,937 | 3,016 | 34,858 | 23,022 | 6,502 |
| Other grains and seeds: | | | | | | | | | | |
| 26 | Dry edible beans | acres. . | 2 | . | 19 | 2 | 18 | 1 | 75 | 21 |
| 27 | bushels. | . | 18 | . | 19 | 24 | 25 | 5 | 407 | 133 |
| 28 | Flaxseed | acres. 15,445 | 6,849 | 11,366 | 2,965 | 16,012 | 6,457 | 42,055 | 8,000 | 11,285 |
| 29 | bushels. | 36,714 | 28,618 | 43,310 | 4,429 | 68,742 | 13,202 | 121,771 | 21,475 | 18,427 |
| Hay and forage: | | | | | | | | | | |
| 30 | Total | acres. 106,462 | 78,836 | 86,888 | 137,527 | 71,061 | 108,089 | 114,211 | 73,606 | 149,666 |
| 31 | tons. 86,999 | 115,566 | 69,828 | 96,207 | 61,904 | 54,099 | 91,482 | 25,007 | 51,830 | 51,830 |
| 32 | All tame or cultivated grasses. | acres. 4,626 | 17,546 | 3,423 | 11,099 | 1,433 | 13,704 | 10,490 | 3,127 | 11,695 |
| 33 | tons. 4,604 | 25,878 | 3,887 | 11,249 | 2,186 | 16,481 | 8,448 | 2,085 | 7,938 | 7,938 |
| 34 | Timothy alone | acres. 418 | 6,295 | 191 | 532 | 46 | 188 | 641 | 7 | 148 |
| 35 | tons. 358 | 5,750 | 168 | 316 | 39 | 126 | 541 | 4 | 82 | 82 |
| 36 | Timothy and clover mixed | acres. . | 171 | 80 | 60 | 10 | 14 | 55 | 1 | 4 |
| 37 | tons. . | 128 | 70 | 60 | 10 | 21 | 35 | 2 | 3 | 3 |
| 38 | Clover alone | acres. 27 | 57 | . | 91 | . | 481 | 48 | 43 | 220 |
| 39 | tons. 16 | 74 | . | 81 | . | 335 | 48 | 39 | 132 | 132 |
| 40 | Alfalfa | acres. 805 | 889 | 14 | 550 | 27 | 0,006 | 1,138 | 466 | 2,413 |
| 41 | tons. 1,063 | 1,436 | 24 | 431 | 48 | 13,809 | 1,621 | 389 | 2,405 | 2,405 |
| 42 | Other tame or cultivated grasses | acres. 3,176 | 10,134 | 3,138 | 9,805 | 1,350 | 3,115 | 8,603 | 2,610 | 8,904 |
| 43 | tons. 3,167 | 18,490 | 3,625 | 10,351 | 2,089 | 2,190 | 6,303 | 1,651 | 5,316 | 5,316 |
| 44 | Wild, salt, or prairie grasses | acres. 94,876 | 40,389 | 81,909 | 96,687 | 67,800 | 48,105 | 87,891 | 59,794 | 112,060 |
| 45 | tons. 75,053 | 44,762 | 63,753 | 58,395 | 57,059 | 13,974 | 64,653 | 17,237 | 27,334 | 27,334 |
| 46 | Small grains cut for hay | acres. 3,580 | 8,170 | 631 | 27,933 | 957 | 40,017 | 9,072 | 8,559 | 18,914 |
| 47 | tons. 1,965 | 12,353 | 544 | 11,351 | 669 | 18,034 | 8,595 | 3,974 | 9,405 | 9,405 |
| 48 | Annual legumes cut for hay | acres. 98 | 361 | 40 | 918 | 351 | 3,010 | 456 | 782 | 321 |
| 49 | tons. 85 | 405 | 20 | 477 | 242 | 2,072 | 400 | 218 | 331 | 331 |
| 50 | Silage crops | acres. 898 | 2,206 | 224 | 1,033 | 154 | 464 | 823 | 166 | 542 |
| 51 | tons. 1,994 | 8,553 | 560 | 3,009 | 770 | 539 | 2,011 | 328 | 1,029 | 1,029 |
| 52 | Corn cut for forage | acres. 2,326 | 9,952 | 647 | 5,797 | 351 | 2,202 | 5,245 | 1,119 | 6,036 |
| 53 | tons. 3,223 | 23,001 | 1,063 | 11,595 | 993 | 2,161 | 7,039 | 1,099 | 5,672 | 5,672 |
| 54 | Kafir, sorghum, etc., for forage | acres. 78 | 203 | 4 | 536 | 15 | 233 | 59 | 98 | 98 |
| 55 | tons. 167 | 604 | 10 | 45 | 820 | 327 | 66 | 119 | 119 | 119 |
| 56 | Root crops for forage | acres. 1 | . | . | 50 | . | . | . | . | . |
| 57 | tons. . | . | . | . | 131 | . | . | . | . | 2 |
| Vegetables: | | | | | | | | | | |
| 58 | Potatoes (Irish or white) | acres. 542 | 941 | 498 | 1,381 | 1,002 | 804 | 1,218 | 702 | 1,370 |
| 59 | bushels. 19,154 | 68,776 | 20,789 | 55,220 | 25,648 | 31,813 | 47,451 | 21,335 | 50,246 | 50,246 |
| 60 | Other vegetables | acres. 9 | 6 | 2 | 18 | 50 | 13 | 4 | 31 | 15 |
| FRUITS. | | | | | | | | | | |
| Small fruits: | | | | | | | | | | |
| 61 | Total | acres. 2 | 14 | 8 | 6 | 5 | 1 | 2 | 13 | 2 |
| 62 | quarts. 670 | 5,209 | 1,800 | 2,139 | 1,025 | 560 | 558 | 3,992 | 540 | 540 |
| 63 | Strawberries | acres. 1 | 4 | 1 | . | . | . | . | . | . |
| 64 | quarts. 210 | 2,015 | 508 | 74 | 321 | 91 | 165 | 405 | 99 | 99 |
| 65 | Raspberries | acres. 6 | 1 | . | . | . | . | . | . | . |
| 66 | quarts. . | 545 | 50 | 213 | 109 | 25 | 25 | 347 | 76 | 76 |
| 67 | Currants | acres. 1 | 6 | 5 | 3 | 1 | . | 1 | 1 | 2 |
| 68 | quarts. 408 | 1,891 | 779 | 1,276 | 165 | 105 | 226 | 115 | 312 | 312 |
| Orchard fruits: | | | | | | | | | | |
| 69 | Total | trees not of bearing age. 18 | 1,948 | 425 | 455 | 488 | 339 | 277 | 262 | 330 |
| 70 | trees of bearing age. 96 | 4,107 | 584 | 1,489 | 846 | 543 | 52 | 822 | 225 | 822 |
| 71 | bushels harvested. 9 | 873 | 30 | 108 | 149 | 36 | 6 | 27 | 107 | 107 |
| 72 | Apples | trees not of bearing age. 3 | 708 | 62 | 83 | 128 | 109 | 60 | 59 | 175 |
| 73 | trees of bearing age. 19 | 835 | 19 | 90 | 174 | 19 | 3 | 66 | 66 | 66 |
| 74 | bushels harvested. 5 | 409 | 1 | 26 | 26 | . | . | 11 | 59 | 59 |
| 75 | Plums and prunes | trees not of bearing age. 6 | 869 | 201 | 272 | 179 | 121 | 215 | 85 | 336 |
| 76 | trees of bearing age. 55 | 2,623 | 395 | 1,171 | 579 | 150 | 44 | 97 | 11 | 386 |
| 77 | bushels harvested. 2 | 411 | 26 | 71 | 113 | 32 | 3 | 33 | 33 | 33 |
| 78 | Cherries | trees not of bearing age. 9 | 373 | 162 | 100 | 181 | 109 | 118 | 118 | 118 |
| 79 | trees of bearing age. 22 | 643 | 170 | 223 | 93 | 374 | 4 | 62 | 145 | 145 |
| 80 | bushels harvested. 2 | 81 | 3 | 11 | 10 | . | . | 5 | 15 | 15 |

AGRICULTURE—NORTH DAKOTA.

COUNTY TABLE V.—MORTGAGE DEBT, 1920; AND EXPENDITURES FOR LABOR, FERTILIZER, AND FEED, 1919.

| | THE STATE. | Adams. | Barnes. | Benson. | Billings. | Bottineau. | Bowman. | Burke. | Burleigh. | |
|---|---|-------------|------------|------------|-----------|------------|------------|-----------|-----------|-----------|
| MORTGAGE DEBT REPORTS: 1920. | | | | | | | | | | |
| For all farms operated by owners: | | | | | | | | | | |
| 1 | Number free from mortgage debt..... | 12,833 | 133 | 312 | 236 | 108 | 306 | 120 | 226 | 200 |
| 2 | Number with mortgage debt..... | 40,402 | 531 | 803 | 741 | 372 | 1,037 | 537 | 804 | 790 |
| 3 | Number with no mortgage report..... | 3,622 | 34 | 125 | 140 | 56 | 112 | 26 | 81 | 63 |
| For farms consisting of owned land only: | | | | | | | | | | |
| 4 | Number of farms reporting amount of debt..... | 22,023 | 232 | 569 | 417 | 221 | 660 | 172 | 397 | 297 |
| 5 | Value of land and buildings.....dollars.. | 380,132,941 | 1,963,671 | 15,151,721 | 7,241,805 | 1,906,410 | 10,232,949 | 1,130,500 | 4,482,680 | 3,817,485 |
| 6 | Amount of mortgage debt.....dollars.. | 108,284,682 | 533,443 | 4,833,569 | 2,092,249 | 634,039 | 3,291,530 | 417,955 | 1,459,269 | 1,013,380 |
| 7 | Ratio of debt to value.....per cent.. | 28.5 | 26.4 | 31.9 | 28.9 | 33.3 | 32.2 | 37.0 | 33.2 | 26.5 |
| 8 | Average rate of interest paid.....per cent.. | 6.7 | 6.7 | 6.3 | 6.9 | 7.3 | 7.0 | 6.8 | 7.3 | 6.6 |
| FARM EXPENDITURES FOR LABOR, FERTILIZER, AND FEED: 1919. | | | | | | | | | | |
| Labor: | | | | | | | | | | |
| 9 | Farms reporting.....number.. | 51,752 | 497 | 1,800 | 1,380 | 153 | 1,375 | 265 | 914 | 830 |
| 10 | Total expenditure.....dollars.. | 37,063,815 | 141,243 | 1,792,831 | 1,340,823 | 69,270 | 577,089 | 117,450 | 443,143 | 507,553 |
| 11 | Amount in cash.....dollars.. | 27,678,182 | 105,295 | 1,323,298 | 1,038,801 | 49,212 | 400,324 | 82,416 | 346,240 | 363,262 |
| 12 | Value of rent and board furnished.....dollars.. | 9,385,633 | 35,948 | 469,533 | 302,022 | 20,058 | 177,665 | 35,033 | 101,894 | 144,291 |
| Fertilizer: | | | | | | | | | | |
| 13 | Farms reporting.....number.. | 489 | 3 | 122 | ..... | 2 | 3 | 3 | 6 | 9 |
| 14 | Amount expended.....dollars.. | 119,782 | 133 | 17,975 | ..... | 1,100 | 2,138 | 400 | 680 | 3,415 |
| Feed: | | | | | | | | | | |
| 15 | Farms reporting.....number.. | 42,957 | 502 | 1,131 | 815 | 311 | 1,741 | 549 | 873 | 711 |
| 16 | Amount expended.....dollars.. | 12,382,661 | 110,125 | 344,620 | 200,782 | 118,210 | 652,364 | 229,031 | 248,643 | 162,725 |
| MORTGAGE DEBT REPORTS: 1920. | | | | | | | | | | |
| For all farms operated by owners: | | | | | | | | | | |
| 1 | Number free from mortgage debt..... | 473 | 291 | 140 | 188 | 205 | 72 | 287 | 78 | 163 |
| 2 | Number with mortgage debt..... | 798 | 1,031 | 610 | 1,187 | 971 | 355 | 741 | 324 | 470 |
| 3 | Number with no mortgage report..... | 90 | 97 | 53 | 20 | 94 | 32 | 100 | 39 | 24 |
| For farms consisting of owned land only: | | | | | | | | | | |
| 4 | Number of farms reporting amount of debt..... | 566 | 675 | 291 | 661 | 621 | 171 | 297 | 197 | 298 |
| 5 | Value of land and buildings.....dollars.. | 17,926,839 | 15,462,937 | 7,973,160 | 7,659,237 | 6,785,698 | 4,011,010 | 5,434,645 | 5,168,115 | 2,962,631 |
| 6 | Amount of mortgage debt.....dollars.. | 4,730,297 | 3,757,151 | 2,018,067 | 2,393,509 | 2,462,378 | 1,133,010 | 1,349,407 | 1,282,038 | 1,143,769 |
| 7 | Ratio of debt to value.....per cent.. | 26.4 | 24.3 | 25.3 | 31.3 | 36.3 | 28.2 | 24.8 | 24.2 | 38.6 |
| 8 | Average rate of interest paid.....per cent.. | 6.1 | 6.5 | 6.1 | 7.5 | 7.2 | 6.4 | 6.5 | 6.6 | 7.3 |
| FARM EXPENDITURES FOR LABOR, FERTILIZER, AND FEED: 1919. | | | | | | | | | | |
| Labor: | | | | | | | | | | |
| 9 | Farms reporting.....number.. | 2,208 | 1,693 | 826 | 1,204 | 516 | 1,259 | 739 | 556 | 346 |
| 10 | Total expenditure.....dollars.. | 2,976,820 | 1,365,222 | 672,103 | 513,231 | 222,815 | 503,766 | 336,423 | 537,022 | 191,133 |
| 11 | Amount in cash.....dollars.. | 2,299,032 | 1,051,760 | 492,671 | 439,619 | 180,749 | 402,634 | 249,037 | 450,823 | 131,415 |
| 12 | Value of rent and board furnished.....dollars.. | 677,788 | 303,462 | 179,532 | 78,712 | 61,666 | 101,132 | 87,350 | 136,199 | 59,768 |
| Fertilizer: | | | | | | | | | | |
| 13 | Farms reporting.....number.. | 37 | 8 | 8 | 10 | 4 | 1 | 5 | 1 | 3 |
| 14 | Amount expended.....dollars.. | 9,930 | 3,579 | 975 | 1,161 | 581 | 280 | 1,305 | 100 | 321 |
| Feed: | | | | | | | | | | |
| 15 | Farms reporting.....number.. | 1,173 | 817 | 660 | 1,080 | 757 | 1,304 | 483 | 328 | 409 |
| 16 | Amount expended.....dollars.. | 406,406 | 175,437 | 239,352 | 260,980 | 212,713 | 325,456 | 114,561 | 122,661 | 176,149 |
| MORTGAGE DEBT REPORTS: 1920. | | | | | | | | | | |
| For all farms operated by owners: | | | | | | | | | | |
| 1 | Number free from mortgage debt..... | 343 | 220 | 151 | 124 | 206 | 169 | 156 | 370 | 188 |
| 2 | Number with mortgage debt..... | 721 | 974 | 408 | 714 | 681 | 737 | 533 | 1,043 | 497 |
| 3 | Number with no mortgage report..... | 96 | 62 | 32 | 70 | 74 | 40 | 78 | 124 | 129 |
| For farms consisting of owned land only: | | | | | | | | | | |
| 4 | Number of farms reporting amount of debt..... | 490 | 501 | 271 | 399 | 210 | 464 | 240 | 549 | 258 |
| 5 | Value of land and buildings.....dollars.. | 12,536,190 | 4,655,859 | 6,687,916 | 4,843,225 | 2,672,669 | 11,592,098 | 4,446,400 | 7,110,300 | 5,519,820 |
| 6 | Amount of mortgage debt.....dollars.. | 3,385,819 | 1,433,594 | 2,094,255 | 1,493,733 | 797,190 | 3,460,836 | 1,069,103 | 2,104,432 | 1,040,614 |
| 7 | Ratio of debt to value.....per cent.. | 27.0 | 30.9 | 31.3 | 30.8 | 29.8 | 29.9 | 24.0 | 29.6 | 18.9 |
| 8 | Average rate of interest paid.....per cent.. | 6.3 | 7.2 | 6.4 | 7.0 | 6.8 | 6.2 | 6.7 | 7.4 | 7.5 |
| FARM EXPENDITURES FOR LABOR, FERTILIZER, AND FEED: 1919. | | | | | | | | | | |
| Labor: | | | | | | | | | | |
| 9 | Farms reporting.....number.. | 1,797 | 618 | 875 | 341 | 587 | 1,155 | 407 | 1,249 | 447 |
| 10 | Total expenditure.....dollars.. | 1,986,051 | 190,523 | 895,921 | 112,282 | 293,735 | 886,404 | 147,833 | 546,785 | 164,836 |
| 11 | Amount in cash.....dollars.. | 1,406,379 | 134,794 | 672,298 | 82,547 | 221,740 | 670,456 | 107,708 | 404,573 | 112,550 |
| 12 | Value of rent and board furnished.....dollars.. | 579,672 | 55,734 | 224,623 | 29,735 | 71,995 | 215,948 | 40,130 | 142,212 | 52,336 |
| Fertilizer: | | | | | | | | | | |
| 13 | Farms reporting.....number.. | 10 | 7 | 4 | 8 | 5 | 4 | 10 | 5 | ..... |
| 14 | Amount expended.....dollars.. | 1,749 | 543 | 1,755 | 3,818 | 1,035 | 910 | 1,073 | 1,726 | ..... |
| Feed: | | | | | | | | | | |
| 15 | Farms reporting.....number.. | 901 | 811 | 639 | 611 | 584 | 945 | 393 | 1,553 | 307 |
| 16 | Amount expended.....dollars.. | 249,995 | 199,125 | 195,701 | 156,013 | 137,223 | 339,620 | 70,834 | 565,485 | 33,950 |

AGRICULTURE—NORTH DAKOTA.

COUNTY TABLE V.—MORTGAGE DEBT, 1920; AND EXPENDITURES FOR LABOR, FERTILIZER, AND FEED, 1919—Contd.

| | McKenzie. | McLean. | Mercer. | Morton. | Mountrail. | Nelson. | Oliver. | Pembina. | Pierce. | |
|---|---|-----------|-----------|------------|------------|-----------|------------|------------|------------|-----------|
| MORTGAGE DEBT REPORTS: 1920. | | | | | | | | | | |
| 1 | For all farms operated by owners: | | | | | | | | | |
| 2 | Number free from mortgage debt..... | 353 | 484 | 261 | 491 | 266 | 225 | 138 | 418 | 140 |
| 3 | Number with mortgage debt..... | 1,449 | 1,457 | 623 | 1,017 | 1,447 | 536 | 413 | 773 | 557 |
| 4 | Number with no mortgage report..... | 62 | 100 | 60 | 68 | 78 | 19 | 48 | 104 | 85 |
| 5 | For farms consisting of owned land only: | | | | | | | | | |
| 6 | Number of farms reporting amount of debt..... | 868 | 614 | 393 | 607 | 665 | 385 | 225 | 534 | 290 |
| 7 | Value of land and buildings.....dollars.. | 5,904,160 | 7,469,095 | 5,157,790 | 7,303,583 | 4,676,100 | 8,483,284 | 2,547,034 | 11,617,625 | 4,723,108 |
| 8 | Amount of mortgage debt.....dollars.. | 2,080,292 | 2,300,146 | 1,460,856 | 2,064,969 | 1,588,168 | 2,119,685 | 732,254 | 2,893,144 | 1,155,985 |
| 9 | Ratio of debt to value.....per cent.. | 35.2 | 30.8 | 28.3 | 28.3 | 34.0 | 25.0 | 28.7 | 24.9 | 24.5 |
| 10 | Average rate of interest paid.....per cent.. | 8.1 | 7.1 | 7.1 | 6.8 | 7.7 | 6.5 | 6.7 | 6.3 | 6.0 |
| FARM EXPENDITURES FOR LABOR, FERTILIZER, AND FEED: 1919. | | | | | | | | | | |
| 11 | Labor: | | | | | | | | | |
| 12 | Farms reporting.....number.. | 810 | 1,604 | 590 | 900 | 1,259 | 1,114 | 312 | 1,471 | 707 |
| 13 | Total expenditure.....dollars.. | 293,967 | 800,301 | 162,107 | 354,603 | 503,771 | 1,266,554 | 109,057 | 1,210,328 | 407,213 |
| 14 | Amount in cash.....dollars.. | 216,013 | 596,996 | 123,460 | 264,265 | 402,639 | 930,348 | 77,682 | 922,463 | 310,817 |
| 15 | Value of rent and board furnished.....dollars.. | 77,954 | 203,305 | 38,707 | 100,338 | 101,132 | 330,206 | 31,375 | 287,865 | 90,396 |
| 16 | Fertilizer: | | | | | | | | | |
| 17 | Farms reporting.....number.. | 7 | 4 | 7 | 10 | 1 | 11 | 1 | 6 | 5 |
| 18 | Amount expended.....dollars.. | 2,154 | 1,168 | 294 | 2,201 | 280 | 2,875 | 72 | 2,410 | 1,100 |
| 19 | Feed: | | | | | | | | | |
| 20 | Farms reporting.....number.. | 1,141 | 1,337 | 451 | 966 | 1,364 | 521 | 246 | 610 | 770 |
| 21 | Amount expended.....dollars.. | 301,766 | 339,693 | 101,440 | 218,047 | 325,486 | 121,483 | 47,833 | 236,901 | 184,018 |
| | Ramsey. | Ransom. | Renville. | Richland. | Rolette. | Sargent. | Shoridan. | Sioux. | Slope. | |
| MORTGAGE DEBT REPORTS: 1920. | | | | | | | | | | |
| 1 | For all farms operated by owners: | | | | | | | | | |
| 2 | Number free from mortgage debt..... | 219 | 254 | 143 | 438 | 261 | 160 | 110 | 189 | 121 |
| 3 | Number with mortgage debt..... | 600 | 613 | 692 | 843 | 602 | 627 | 630 | 163 | 529 |
| 4 | Number with no mortgage report..... | 39 | 53 | 20 | 101 | 70 | 97 | 50 | 43 | 32 |
| 5 | For farms consisting of owned land only: | | | | | | | | | |
| 6 | Number of farms reporting amount of debt..... | 382 | 362 | 366 | 478 | 380 | 332 | 277 | 77 | 260 |
| 7 | Value of land and buildings.....dollars.. | 8,815,339 | 8,056,246 | 5,752,378 | 12,507,020 | 4,978,095 | 11,084,270 | 3,342,978 | 402,800 | 2,544,525 |
| 8 | Amount of mortgage debt.....dollars.. | 2,624,478 | 2,299,569 | 1,681,471 | 3,199,785 | 1,434,338 | 2,800,334 | 969,949 | 152,300 | 694,285 |
| 9 | Ratio of debt to value.....per cent.. | 29.8 | 25.7 | 29.2 | 25.6 | 28.8 | 25.3 | 30.9 | 30.9 | 30.1 |
| 10 | Average rate of interest paid.....per cent.. | 6.4 | 6.1 | 7.2 | 6.2 | 7.0 | 6.2 | 7.4 | 7.8 | 7.4 |
| FARM EXPENDITURES FOR LABOR, FERTILIZER, AND FEED: 1919. | | | | | | | | | | |
| 11 | Labor: | | | | | | | | | |
| 12 | Farms reporting.....number.. | 1,255 | 1,029 | 686 | 1,804 | 833 | 1,059 | 508 | 104 | 307 |
| 13 | Total expenditure.....dollars.. | 1,586,370 | 839,022 | 295,150 | 1,363,607 | 497,043 | 870,463 | 183,740 | 78,010 | 157,419 |
| 14 | Amount in cash.....dollars.. | 1,199,139 | 591,930 | 213,500 | 868,758 | 380,631 | 639,321 | 130,370 | 60,148 | 113,289 |
| 15 | Value of rent and board furnished.....dollars.. | 387,231 | 247,092 | 81,650 | 494,849 | 116,417 | 231,147 | 44,370 | 17,862 | 44,130 |
| 16 | Fertilizer: | | | | | | | | | |
| 17 | Farms reporting.....number.. | 4 | 9 | 5 | 26 | 22 | 4 | 4 | 2 | 1 |
| 18 | Amount expended.....dollars.. | 1,695 | 1,651 | 908 | 8,578 | 3,998 | 460 | 1,020 | 110 | 400 |
| 19 | Feed: | | | | | | | | | |
| 20 | Farms reporting.....number.. | 665 | 697 | 904 | 1,003 | 643 | 634 | 646 | 265 | 403 |
| 21 | Amount expended.....dollars.. | 254,207 | 189,036 | 352,675 | 204,323 | 177,633 | 193,896 | 138,582 | 57,400 | 175,117 |
| | Stark. | Steele. | Stutsman. | Towner. | Trall. | Walsh. | Ward. | Wells. | Williams. | |
| MORTGAGE DEBT REPORTS: 1920. | | | | | | | | | | |
| 1 | For all farms operated by owners: | | | | | | | | | |
| 2 | Number free from mortgage debt..... | 284 | 144 | 258 | 87 | 344 | 676 | 306 | 230 | 316 |
| 3 | Number with mortgage debt..... | 792 | 375 | 1,295 | 448 | 390 | 1,026 | 1,557 | 765 | 1,704 |
| 4 | Number with no mortgage report..... | 44 | 41 | 119 | 19 | 50 | 76 | 77 | 82 | 73 |
| 5 | For farms consisting of owned land only: | | | | | | | | | |
| 6 | Number of farms reporting amount of debt..... | 516 | 259 | 643 | 260 | 258 | 773 | 857 | 432 | 955 |
| 7 | Value of land and buildings.....dollars.. | 6,148,045 | 7,839,455 | 11,474,463 | 6,580,020 | 7,644,340 | 18,311,684 | 10,144,338 | 8,531,896 | 7,725,690 |
| 8 | Amount of mortgage debt.....dollars.. | 1,980,607 | 1,900,968 | 3,772,424 | 1,973,904 | 2,001,820 | 4,432,557 | 3,101,835 | 2,452,307 | 2,659,451 |
| 9 | Ratio of debt to value.....per cent.. | 32.2 | 24.2 | 32.9 | 30.0 | 26.2 | 24.2 | 30.6 | 28.7 | 34.4 |
| 10 | Average rate of interest paid.....per cent.. | 7.4 | 6.2 | 6.4 | 6.8 | 6.2 | 6.3 | 7.3 | 6.6 | 7.8 |
| FARM EXPENDITURES FOR LABOR, FERTILIZER, AND FEED: 1919. | | | | | | | | | | |
| 11 | Labor: | | | | | | | | | |
| 12 | Farms reporting.....number.. | 424 | 933 | 1,811 | 887 | 1,168 | 1,559 | 1,070 | 1,224 | 1,509 |
| 13 | Total expenditure.....dollars.. | 185,953 | 1,206,144 | 1,202,381 | 907,054 | 1,635,943 | 1,044,916 | 748,515 | 911,630 | 648,153 |
| 14 | Amount in cash.....dollars.. | 135,949 | 942,441 | 918,674 | 675,810 | 1,208,913 | 787,088 | 579,609 | 677,347 | 500,010 |
| 15 | Value of rent and board furnished.....dollars.. | 50,004 | 263,703 | 284,207 | 231,244 | 427,030 | 277,828 | 168,906 | 233,783 | 141,548 |
| 16 | Fertilizer: | | | | | | | | | |
| 17 | Farms reporting.....number.. | 2 | 5 | 12 | 5 | 7 | 11 | 12 | 5 | 18 |
| 18 | Amount expended.....dollars.. | 360 | 9,113 | 6,211 | 1,704 | 770 | 4,339 | 3,788 | 1,395 | 4,494 |
| 19 | Feed: | | | | | | | | | |
| 20 | Farms reporting.....number.. | 920 | 441 | 1,378 | 568 | 493 | 663 | 1,779 | 690 | 1,024 |
| 21 | Amount expended.....dollars.. | 319,763 | 123,964 | 443,280 | 203,427 | 155,730 | 162,141 | 546,043 | 335,790 | 394,837 |

IRRIGATION—NORTH DAKOTA.

INTRODUCTION.

The following pages present the statistics of irrigation for the state of North Dakota collected at the census of 1920. Statistics of acreage irrigated, of acreage, yield, and value of crops grown on irrigated land, and of cost of operation and maintenance relate to the year 1919; other items relate to the year 1920. Throughout the report figures for the census of 1910 are given for purposes of comparison; and, for the

purpose of showing the historical development of irrigation, items which have been reported in censuses previous to 1910 are presented.

Statistics of number of farms irrigated and of acreage, yield, and value of crops grown on irrigated land were collected in the general census of agriculture. All other statistics were obtained in a special canvass of irrigation enterprises.

TABLE 1.—SUMMARY FOR THE STATE: 1920 AND 1910.

| ITEM. | CENSUS OF— | | INCREASE. ¹ | |
|--|-------------|------------|------------------------|-----------|
| | 1920 | 1910 | Amount. | Per cent. |
| Number of all farms..... | 77,690 | 74,360 | 3,330 | 4.5 |
| Approximate land area of the state..... acres.. | 44,917,120 | 44,917,120 | | |
| All land in farms..... acres.. | 36,214,751 | 28,426,650 | 7,788,101 | 27.4 |
| Improved land in farms..... acres.. | 24,563,178 | 20,455,092 | 4,108,086 | 20.1 |
| Number of farms irrigated..... | 340 | 69 | 271 | |
| Area irrigated..... acres.. | 12,072 | 10,248 | 1,824 | 17.8 |
| Area enterprises were capable of irrigating..... acres.. | 34,235 | 21,917 | 12,318 | 56.2 |
| Area included in enterprises..... acres.. | 57,476 | 38,173 | 19,303 | 50.6 |
| Per cent irrigated: | | | | |
| Number of all farms..... | 0.4 | 0.1 | 0.3 | |
| Approximate land area of the state..... | (2) | (2) | | |
| Land in farms..... | (2) | (2) | | |
| Improved land in farms..... | (2) | 0.1 | | |
| Excess of area enterprises were capable of irrigating over area irrigated..... acres.. | 22,163 | 11,669 | 10,494 | 89.9 |
| Excess of area included in enterprises over area irrigated..... acres.. | 45,404 | 27,925 | 17,479 | 62.6 |
| Capital invested..... | \$1,857,118 | \$836,482 | \$1,020,636 | 122.0 |
| Average per acre enterprises were capable of irrigating..... | \$54.25 | \$38.17 | \$16.08 | 42.1 |
| Estimated final cost of existing enterprises..... | \$2,072,766 | \$836,482 | \$1,236,284 | 147.8 |
| Average per acre included in enterprises..... | \$36.06 | \$21.91 | \$14.15 | 64.6 |
| Average cost of operation and maintenance per acre..... | \$5.50 | \$28.40 | -\$22.90 | -80.6 |
| IRRIGATION WORKS. | | | | |
| Number of enterprises..... | 30 | 49 | -19 | |
| Number of main ditches..... | 32 | 47 | -15 | |
| Length of main ditches..... miles.. | 58 | 52 | 6 | |
| Capacity of main ditches..... second-feet.. | 836 | 2,161 | -1,325 | -61.8 |
| Number of lateral ditches..... | 58 | 46 | 12 | |
| Length of lateral ditches..... miles.. | 93 | 74 | 19 | |
| Number of reservoirs..... | 9 | 22 | -13 | |
| Capacity of reservoirs..... acre-feet.. | 1,110 | 132,187 | -131,077 | -99.2 |
| Number of pumped wells..... | (3) | 1 | -1 | |
| Capacity of pumped wells..... gallons per minute.. | (3) | 15 | 15 | |
| Number of pumping plants..... | 4 | 4 | | |
| Engine capacity..... horsepower.. | 2,068 | 2,038 | 30 | 1.5 |
| Pump capacity..... gallons per minute.. | 51,250 | 182,115 | -130,865 | -71.9 |
| Average lift..... feet.. | 38 | (4) | 38 | |

¹ A minus sign (-) denotes decrease. Per cent not shown when base is less than 100.
² Less than one-tenth of 1 per cent.

³ Not reported in 1920.
⁴ Not reported in 1910.

EXPLANATION OF TERMS.

Farms irrigated.—The number of "farms irrigated" is the number on which irrigation is practiced, and for the purposes of this inquiry a "farm" is defined as for the general census of agriculture; that is, to be classed as a farm an establishment either must be 3 acres in extent or must have produced crops to the value of \$250 in 1919, or must have required for its agricultural operations the continuous services of at least one person. "Number of farms irrigated" as used in this report and in that of 1910, is equivalent to the term "number of irrigators" used in census reports on irrigation previous to 1910.

Irrigation enterprise.—An "enterprise" is an independent irrigation establishment and includes the works for supplying water and the land to which water is supplied or is to be supplied, except that the cost or value of the land is not included in the "capital invested."

Acreage irrigated, in enterprises, and available for settlement.—Acreage irrigated is the acreage to which water was actually applied in the season preceding the census year—1919 for the Fourteenth Census and 1909 for the Thirteenth Census.

Acreage to which enterprises were capable of supplying water relates to the season following the time of taking the census and, consequently, is based on estimates made by those controlling the enterprises.

Acreage included in enterprises represents the extent of the plans of those controlling enterprises.

Acreage of irrigated land reported as available for settlement relates to land within existing enterprises and not to land that is susceptible of reclamation and settlement by new enterprises or extensions of existing enterprises.

Types of enterprises.—The types of enterprises under which all data are classified are as follows:

United States Reclamation Service enterprises, which operate under the Federal law of June 17, 1902, providing for the construction of irrigation works with the receipts from the sale of public lands. In addition to serving land within its own projects, the United States Reclamation Service supplies stored water to land within other enterprises.

United States Indian Service enterprises, which operate under various acts of Congress providing for the construction by that service of works for the irrigation of land in Indian reservations.

Carey Act enterprises, which operate under the Federal law of August 18, 1894, granting to each of the states in the arid region 1,000,000 acres of land on condition that the state provide for its irrigation, and under amendments to that law granting additional areas to Idaho and Wyoming.

Irrigation districts, which are public corporations that operate under state laws providing for their organization and management, and empowering them to issue bonds and levy and collect taxes with the object of obtaining funds for the purchase or construction and for the operation and maintenance of irrigation works.

Cooperative enterprises, which are controlled by the water users under some organized form of cooperation. The most common form of organization is the stock company, the stock of which is owned by the water users.

Commercial enterprises, which supply water for compensation to parties who may own no interest in the works.

Individual and partnership enterprises, which belong to individual farmers or to neighboring farmers, who control them without formal organization.

Capital invested.—The capital invested in irrigation enterprises is that reported by the owners. For the larger works the capital invested is taken, in most cases, from books of account and represents the actual investment. In the case of most of the private and partnership and many of the cooperative enterprises, however, the works were built by their owners without records of money or labor expended, and the capital reported represents the owners' estimates. The schedules used in 1910 called for "cost," while the

schedules used in the present census called for "capital invested," but the instructions accompanying the schedules make these two terms equivalent. In both cases the investment includes cost of construction and of acquiring rights. The latter usually consists of filing fees only, but in some instances it includes the purchase price of rights. However, these cases are so rare that they are unimportant. The cost reported for 1900 is designated "cost of construction," but probably includes the cost of acquiring rights, as in 1910. For the Thirteenth and Fourteenth Censuses the average cost per acre is based on the acreage which enterprises were capable of irrigating in the census year and the cost to the date of the census—January 1, 1920, for the Fourteenth Census, and July 1, 1910, for the Thirteenth Census.

Operation and maintenance.—Cost of operation and maintenance was not reported on all schedules, and averages are based on the acreages for which cost is reported. No estimate of total cost of operation and maintenance for all irrigation enterprises has been made. In the case of enterprises operating pumping plants the cost of operation and maintenance includes cost of fuel and attendance.

Water rights.—The acreage irrigated has been classified by the character of rights under which water is received. The classes used are defined as follows:

"*Appropriation and use*" includes all rights acquired without formalities of any kind that have not been defined by the courts.

"*Notice filed and posted*" includes rights for which claims of some kind have been either posted or filed that have not been defined by the courts.

"*Adjudicated by court*" includes all rights that have been defined by the courts.

"*Permit from state*" includes all rights initiated under laws requiring any party wishing to acquire rights to obtain a permit from the state.

"*Certificate or license from the state*" includes rights acquired under laws providing for the issuing by the state of certificates or licenses defining rights acquired.

"*Riparian rights*" includes rights based on the ownership of riparian land.

"*Underground*" represents water taken from wells.

Source of water supply.—In classifying acreage by source of supply from which water for irrigation is obtained, in 1910 acreage was credited to what seemed to be the principal source of supply, while in the census of 1920 the attempt is made to represent the facts more nearly by presenting various mixed classes.

Date of beginning.—The date of beginning of irrigation enterprises is, in some cases, the date when construction began, and, in other cases, the date of filing a claim or of applying for a permit. If a filing or application for permit was made and work was begun and continued with reasonable diligence the date of filing is considered the date of beginning, otherwise the date of construction is taken as the date of beginning.

Drainage basin.—The drainage basin of a stream is all of the land drained by the stream and its tributaries.

Units of quantity and capacity.—Capacities of canals, reservoirs, wells, pumps, and engines, and quantities of water used are expressed in the units commonly used in engineering literature to express the same items. They are as follows:

Capacities of canals and volumes of flowing water are given in second-feet, a shorter equivalent for cubic feet per second.

Capacities of wells and pumps are given in gallons per minute. Four hundred and fifty gallons per minute equal 1 second-foot.

Capacities of reservoirs are given in acre-feet. An acre-foot is the quantity of water that will cover 1 acre to a depth of 1 foot. It equals 43,560 cubic feet.

Capacities of engines and motors are given in horsepower. One horsepower is the power required to lift 33,000 pounds through a vertical distance of 1 foot in 1 minute of time.

CLIMATIC CONDITIONS.

Throughout the state of North Dakota the precipitation is, in normal years, sufficient for the maturing of crops, without irrigation, the normal rainfall for the state being 17.92 inches. In the western part of the state, however, the precipitation is below the average for the state, and irrigation is practiced to a limited extent. In 1919 the precipitation was below the normal, being below 15 inches over most of the western half of the state, and below 10 inches over the southwestern part of the state. This low precipitation resulted in a short supply of water for irrigation where water is taken from small local streams, and it is probable that some land was not irrigated in 1919 which would have been if water had been available.

WATER SUPPLY FOR IRRIGATION.

The whole of that part of the state of North Dakota within which irrigation is practiced lies within the drainage basin of Missouri River and its tributaries. With the exception of the Missouri itself these streams are plains streams and subject to drouth when local rainfall fails. The Missouri is fed by mountain streams, and supplies sufficient water for the limited area receiving water from it.

There are many artesian wells in the state, but they are not used for irrigation.

FARMS AND ACREAGE IRRIGATED.

TABLE 2.—NUMBER OF FARMS AND ACREAGE IRRIGATED: 1890 TO 1920.

| CENSUS YEAR. | FARMS IRRIGATED. | | | AREA IRRIGATED. | | | | |
|--------------|------------------|-----------------------|------------------------|-----------------|-----------------------|------------------------------|----------------------------|-------------------------------------|
| | Number. | Per cent of increase. | Per cent of all farms. | Acres. | Per cent of increase. | Per cent of total land area. | Per cent of land in farms. | Per cent of improved land in farms. |
| 1920..... | 340 | 392.8 | 0.4 | 12,072 | 17.8 | (1) | (1) | (1) |
| 1910..... | 69 | 27.8 | 0.1 | 10,248 | 110.3 | (1) | (1) | 0.1 |
| 1900..... | 54 | 671.4 | 0.1 | 4,872 | 994.8 | (1) | (1) | 0.1 |
| 1890..... | 7 | | (1) | 445 | | (1) | (1) | (1) |

¹ Less than one-tenth of 1 per cent.

TABLE 3.—ACREAGE, CLASSIFIED BY DATE OF BEGINNING OF ENTERPRISES SUPPLYING WATER FOR IRRIGATION.

| DATE OF BEGINNING. | Number of enterprises. | Area included in enterprises, 1920 (acres). | AREA IRRIGATED IN 1919. | | Area enterprises were capable of irrigating in 1920 (acres). |
|------------------------------|------------------------|---|-------------------------|-------------------------------------|--|
| | | | Acres. | Per cent of acreage in enterprises. | |
| Total..... | 30 | 57,476 | 12,072 | 21.0 | 34,235 |
| 1880-1889 ¹ | 3 | 2,100 | 595 | 28.3 | 1,060 |
| 1890-1899..... | 5 | 2,130 | 458 | 21.5 | 1,520 |
| 1900-1904..... | 9 | 4,967 | 955 | 19.2 | 3,255 |
| 1905-1909..... | 2 | 46,031 | 8,766 | 19.0 | 26,238 |
| 1910-1914..... | 1 | 325 | 285 | 87.7 | 325 |
| 1915-1919..... | 6 | 1,128 | 330 | 29.3 | 1,042 |
| Not reported..... | 4 | 795 | 683 | 85.9 | 795 |

¹ Dakota Territory.

TABLE 4.—ACREAGE, CLASSIFIED BY SOURCE OF WATER SUPPLY: 1919 AND 1909.

| CLASS. | AREA IRRIGATED (ACRES). | | | | Area enterprises were capable of irrigating in 1920 (acres). | Area included in enterprises, 1920 (acres). |
|-------------------------|-------------------------|--------|------------------------|-----------|--|---|
| | 1919 | 1909 | Increase. ¹ | | | |
| | | | Amount. | Per cent. | | |
| Total..... | 12,072 | 10,248 | 1,824 | 17.8 | 34,235 | 57,476 |
| Streams, gravity..... | 9,030 | 7,153 | 1,877 | 26.2 | 21,241 | 30,740 |
| Streams, pumped..... | 2,469 | 1,614 | 855 | 53.0 | 12,208 | 26,040 |
| Wells, pumped..... | | 1 | -1 | | | |
| Springs..... | | 200 | -200 | | | |
| Stored storm water..... | 508 | 1,280 | -772 | -60.8 | 606 | 606 |
| Other mixed..... | 05 | | 65 | | 90 | 90 |

¹ A minus sign (-) denotes decrease.

ACREAGE, BY CHARACTER OF ENTERPRISE.

An irrigation district law was enacted in North Dakota in 1917, and a district has been organized to take over the Williston project of the United States Reclamation Service, but this project is credited to the Reclamation Service in Table 5 because the Government built the works and still controls them to a large extent.

North Dakota has not accepted the conditions of the Federal Carey Act (act of Congress, Aug. 18, 1894).

TABLE 5.—ACREAGE, CLASSIFIED BY CHARACTER OF ENTERPRISE: 1920 AND 1910.

| ITEM AND CLASS. | CENSUS OF— | | INCREASE. ¹ | |
|---|------------|--------|------------------------|-----------|
| | 1920 | 1910 | Amount. | Per cent. |
| ACREAGE IRRIGATED. | | | | |
| Total..... | 12,072 | 10,248 | 1,824 | 17.8 |
| Individual and partnership..... | 3,306 | 8,638 | -5,332 | -61.7 |
| U. S. Reclamation Service..... | 8,766 | 1,610 | 7,156 | 444.5 |
| ACREAGE ENTERPRISES WERE CAPABLE OF IRRIGATING. | | | | |
| Total..... | 34,235 | 21,917 | 12,318 | 56.2 |
| Individual and partnership..... | 7,997 | 9,821 | -1,824 | -18.6 |
| U. S. Reclamation Service..... | 26,238 | 12,096 | 14,142 | 116.9 |
| ACREAGE INCLUDED IN ENTERPRISES. | | | | |
| Total..... | 57,476 | 38,173 | 19,303 | 50.6 |
| Individual and partnership..... | 11,445 | 13,093 | -2,248 | -16.4 |
| U. S. Reclamation Service..... | 46,031 | 24,480 | 21,551 | 88.0 |

¹ A minus sign (-) denotes decrease.

ACREAGE, BY CHARACTER OF WATER RIGHTS.

The laws of North Dakota relating to water rights are summarized in the following paragraphs:

North Dakota was organized from a part of Dakota territory and admitted to the Union in 1889.

The constitution of the state made the following declaration regarding water: "All flowing streams and natural water sources shall forever remain the property of the state for mining, irrigation, and manufacturing purposes." (Sec. 210.)

In 1905 the state adopted a comprehensive code covering the subject of water rights.

This code contained the following general provision: "All waters within the limits of the state from all sources of water supply belong to the public and, except as to navigable waters, are subject to appropriation for beneficial use." (Laws 1905, ch. 34, sec. 1.)

Under this law any party wishing to acquire water rights is required to apply to the state engineer for a permit. When works are completed the state engineer issues a certificate of completion, and when water has been put to use a license is issued.

The law of 1905 provided the machinery for a complete adjudication of all rights to water. The state engineer was to make hydrographic surveys of all streams and ditches, and, when these surveys were completed, file reports with the attorney general of the state, "who shall, within 60 days thereafter, enter suit on behalf of the state for the determination of all rights to the use of such water." (Laws 1905, ch. 34, secs. 14 and 15.) Table 6 indicates that this provision of the law has not been carried out.

TABLE 6.—ACREAGE IRRIGATED, CLASSIFIED BY CHARACTER OF RIGHTS UNDER WHICH WATER IS RECEIVED: 1919 AND 1909.

| CLASS. | 1919 | | 1909 per cent of total. |
|------------------------------|--------|-----------------------|-------------------------------|
| | Acres. | Per cent of total. | |
| Total..... | 12,072 | 100.0 | 100.0 |
| Appropriation and use..... | 6,348 | 52.6 | 88.9 |
| Notice filed and posted..... | 2,328 | 19.3 | 6.8 |
| Permit from state..... | 2,986 | 24.3 | 4.3 |
| Not reported..... | 460 | 3.8 | (1) |

¹ All land for which the class of water rights was reported was included in "Appropriation and use."

ACREAGE, BY DRAINAGE BASIN.

The report of a special irrigation census taken in 1902 presented all data by drainage basins rather than by counties. The results of the census of 1920 have been tabulated on the same basis, and the data for 1902 are presented for purposes of comparison. For no other census have the results been tabulated in this form. The acreage reported for each drainage basin in 1919 comprises all the irrigated land in that drainage basin, including that watered from springs and wells. In the 1902 results the acreages irrigated from springs and wells were reported separately in such a way that it is not possible to tell in what drainage basin these areas are situated. This area is so small, however, that the comparisons are not affected seriously.

TABLE 7.—ACREAGE IRRIGATED, CLASSIFIED BY DRAINAGE BASIN: 1919 AND 1902.

| DRAINAGE BASIN. | AREA IRRIGATED (ACRES). | | | Area included in enterprises, 1920 (acres). | Area enterprises were capable of irrigating in 1920 (acres). |
|---|-------------------------|--------|-----------------------|---|--|
| | 1919 | 1902 | Per cent of increase. | | |
| Total..... | 12,072 | 10,384 | 14.3 | 57,476 | 34,235 |
| Missouri River and tributaries..... | 12,072 | 9,444 | 27.8 | 57,476 | 34,235 |
| Mouse River and tributaries..... | (1) | 676 | | | |
| Red River of the North and tributaries..... | (2) | 6 | | | |
| Springs..... | (2) | 256 | | | |
| Wells..... | (2) | 2 | | | |

¹ Not reported in 1919.

² Included in figures for streams.

CAPITAL INVESTED AND COST OF OPERATION AND MAINTENANCE.

TABLE 8.—CAPITAL INVESTED IN IRRIGATION ENTERPRISES: 1890 TO 1920.

| CENSUS YEAR. | Amount. | Per cent of increase. ¹ | AVERAGE PER ACRE. | |
|--------------|-------------|------------------------------------|-------------------|-----------------------|
| | | | Amount. | Per cent of increase. |
| 1920..... | \$1,857,118 | 122.0 | \$54.25 | 42.1 |
| 1910..... | 830,482 | | 38.17 | 993.7 |
| 1900..... | 16,980 | | 3.49 | |
| 1890..... | (2) | | | |

¹ Per cent not shown when more than 1,000.

² Not reported in 1890.

TABLE 9.—CAPITAL INVESTED, CLASSIFIED BY DATE OF BEGINNING.

| DATE OF BEGINNING. | Amount. | Per cent of total. | Average per acre. |
|------------------------------|-------------|--------------------|-------------------|
| Total..... | \$1,857,118 | 100.0 | \$54.25 |
| 1890-1899 ¹ | 8,000 | 0.4 | 7.55 |
| 1890-1899..... | 17,069 | 1.0 | 11.62 |
| 1900-1904..... | 37,714 | 2.0 | 11.59 |
| 1905-1909..... | 1,777,570 | 95.7 | 67.75 |
| 1910-1914..... | 2,000 | 0.1 | 6.15 |
| 1915-1919..... | 11,207 | 0.6 | 10.76 |
| Not reported..... | 2,958 | 0.2 | 3.72 |

¹ Dakota Territory.

TABLE 10.—CAPITAL INVESTED, 1920, AND COST OF OPERATION AND MAINTENANCE, 1919, CLASSIFIED BY SOURCE OF WATER SUPPLY.

[When water is pumped, cost of operation and maintenance includes cost of fuel and attendance.]

| CLASS. | CAPITAL INVESTED, 1920. | | | OPERATION AND MAINTENANCE, 1919. | |
|-------------------------|-------------------------|--------------------|-------------------|--|-------------------------------------|
| | Amount. | Per cent of total. | Average per acre. | Area for which cost is reported (acres). | Average cost per acre. ¹ |
| Total..... | \$1,857,118 | 100.0 | \$54.25 | 10,951 | \$5.50 |
| Streams, gravity..... | 1,299,951 | 70.0 | 61.20 | 8,485 | 3.55 |
| Streams, pumped..... | 552,007 | 29.7 | 44.89 | 2,466 | 12.21 |
| Stored storm water..... | 4,000 | 0.3 | 7.69 | | |
| Other mixed..... | 500 | | 5.56 | | |

¹ Based on area irrigated in 1919.

TABLE 11.—CAPITAL INVESTED, CLASSIFIED BY DRAINAGE BASIN: 1920 AND 1902.

| DRAINAGE BASIN. | 1920 | 1902 | Increase. |
|---|-------------|----------|-------------|
| Total..... | \$1,857,118 | \$45,087 | \$1,812,031 |
| Missouri River and tributaries..... | 1,857,118 | 40,375 | 1,816,743 |
| Mouse River and tributaries..... | (1) | 3,637 | |
| Red River of the North and tributaries..... | (2) | 300 | |
| Springs..... | (2) | 600 | |
| Wells..... | (2) | 175 | |

¹ Not reported in 1920.

² Included in figures for streams.

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TABLE 12.—CAPITAL INVESTED, 1920, AND COST OF OPERATION AND MAINTENANCE, 1919, CLASSIFIED BY CHARACTER OF ENTERPRISE. [When water is pumped, cost of operation and maintenance includes cost of fuel and attendance.]

| CLASS. | CAPITAL INVESTED, 1920. | | OPERATION AND MAINTENANCE, 1919. | |
|---------------------------------|-------------------------|--------------------|--|-------------------------------------|
| | Amount. | Per cent of total. | Area for which cost is reported (acres). | Average cost per acre. ¹ |
| Total..... | \$1,857,118 | 100.0 | 10,951 | \$5.50 |
| Individual and partnership..... | 81,693 | 4.4 | 2,185 | 0.79 |
| U. S. Reclamation Service..... | 1,775,425 | 95.6 | 8,766 | 0.67 |

¹ Based on area irrigated in 1919.

DRAINAGE OF IRRIGATED LAND.

The acreages reported in Table 13 relate to lands within the boundaries of irrigation projects, and do not include lands within the vicinity of these projects. "Additional acreage needing drainage" includes all lands so reported by the owners of the enterprises, and includes lands producing partial crops as well as those wholly unproductive.

TABLE 13.—ACREAGE WITHIN IRRIGATION ENTERPRISES FOR WHICH DRAINS HAVE BEEN INSTALLED AND ADDITIONAL ACREAGE IN NEED OF DRAINAGE: 1920.

| | |
|---|--------|
| Number of enterprises reporting land drained or needing drainage..... | 8 |
| Acreage included in enterprises reporting land drained or needing drainage..... | 49,531 |
| Acreage for which drains have been installed..... | 1,613 |
| Additional acreage needing drainage..... | 659 |
| Per cent that acreage for which drains have been installed is of total acreage included in enterprises reporting drainage..... | 3.3 |
| Per cent that acreage for which drains have been installed is of total acreage included in irrigation enterprises in the state..... | 2.8 |
| Per cent that acreage for which drains have been installed plus that needing drainage is of total acreage included in irrigation enterprises in the state.. | 4.0 |

QUANTITY OF WATER USED.

The quantity of water used in 1919 was reported on only part of the irrigation schedules. While the data are incomplete, the reports represent sufficient acreages to serve as bases for reliable averages. In all cases in which the quantity is reported the water was measured.

TABLE 14.—QUANTITY OF WATER USED IN 1919.

| | |
|---|--------|
| Average volume of water entering canals.....second-feet.. | 130 |
| Area irrigated in 1919.....acres.. | 8,766 |
| Average number of acres per second-foot..... | 67.4 |
| Total quantity of water entering canals.....acre-feet.. | 28,100 |
| Area irrigated in 1919.....acres.. | 8,766 |
| Average quantity per acre.....acre-feet.. | 3.2 |
| Total quantity of water delivered.....acre-feet.. | 11,636 |
| Area irrigated in 1919.....acres.. | 8,766 |
| Average quantity per acre.....acre-feet.. | 1.3 |

IRRIGATION WORKS.

TABLE 15.—IRRIGATION WORKS, CLASSIFIED BY DATE OF BEGINNING.

| DATE OF BEGINNING. | Number of diverting dams. | Number of storage dams. | MAIN DITCHES. | | | LATERAL DITCHES. | | RESERVOIRS. | | | Pipe lines, length (miles). | PUMPING PLANTS. | | |
|------------------------------|---------------------------|-------------------------|---------------|-------------------------|-----------------|------------------|-----------------|-------------|-----------------------|---------|-----------------------------|--------------------------------|---------|--------------------------------|
| | | | Number. | Capacity (second-foot). | Length (miles). | Number. | Length (miles). | Number. | Capacity (acre-feet). | Number. | | Engine capacity (horse-power). | Number. | Capacity (gallons per minute). |
| Total..... | 26 | 11 | 32 | 836 | 58 | 58 | 93 | 9 | 1,110 | 0.3 | 4 | 2,068 | 10 | 51,250 |
| 1880-1889 ¹ | 8 | 2 | 4 | 7 | 6 | 5 | 2 | 1 | 140 | ..... | ..... | ..... | ..... | ..... |
| 1890-1899..... | 2 | 4 | 7 | 28 | 7 | 4 | 3 | 6 | 563 | ..... | ..... | ..... | ..... | ..... |
| 1900-1904..... | 9 | 2 | 10 | 327 | 11 | 4 | 3 | 1 | ..... | ..... | ..... | ..... | ..... | ..... |
| 1905-1909..... | 2 | 2 | 2 | 371 | 26 | 22 | 6 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 1910-1914..... | 2 | 1 | 1 | 100 | 1 | 25 | 81 | ..... | ..... | 0.3 | 2 | 2,040 | 8 | 50,000 |
| 1915-1919..... | 4 | 2 | 5 | 10 | 4 | 2 | 1 | 2 | 407 | ..... | ..... | ..... | ..... | ..... |
| Not reported..... | 1 | ..... | 3 | ..... | 3 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |

¹ Dakota Territory.

TABLE 16.—IRRIGATION WORKS, CLASSIFIED BY CHARACTER OF ENTERPRISE: 1920.

| CLASS. | Number of diverting dams. | Number of storage dams. | MAIN DITCHES. | | | LATERAL DITCHES. | | RESERVOIRS. | | | Pipe lines, length (miles). | PUMPING PLANTS. | | |
|---------------------------------|---------------------------|-------------------------|---------------|-------------------------|-----------------|------------------|-----------------|-------------|-----------------------|---------|-----------------------------|--------------------------------|---------|--------------------------------|
| | | | Number. | Capacity (second-foot). | Length (miles). | Number. | Length (miles). | Number. | Capacity (acre-feet). | Number. | | Engine capacity (horse-power). | Number. | Capacity (gallons per minute). |
| Total..... | 26 | 11 | 32 | 836 | 58 | 58 | 93 | 9 | 1,110 | 0.3 | 4 | 2,068 | 10 | 51,250 |
| Individual and partnership..... | 26 | 11 | 30 | 465 | 32 | 33 | 12 | 9 | 1,110 | | 2 | 28 | 2 | 1,250 |
| U. S. Reclamation Service..... | | | 2 | 371 | 26 | 25 | 81 | | | 0.3 | 2 | 2,040 | 8 | 50,000 |

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CROPS.

TABLE 17.—ACREAGE, YIELD, AND VALUE OF PRINCIPAL CROPS GROWN ON IRRIGATED LAND, AND COMPARISONS WITH TOTALS FOR THE STATE: 1919 AND 1909.

[Totals for the state, used in making comparisons, are shown in state bulletin on agriculture.]

| CROP. | AREA HARVESTED. | | | | | QUANTITY HARVESTED. | | | | | | |
|---|-----------------|------------------------------|--------|------------------------------|------------------------------------|---------------------|---------|------------------------------|---------|------------------------------|------------------------------------|--|
| | 1919 | | 1909 | | Per cent of increase. ¹ | Unit. | 1919 | | 1909 | | Per cent of increase. ¹ | |
| | Acres. | Per cent of total for state. | Acres. | Per cent of total for state. | | | Amount. | Per cent of total for state. | Amount. | Per cent of total for state. | | |
| Cereals: | | | | | | | | | | | | |
| 1 Oats..... | 2,870 | 0.1 | 544 | (2) | 427.6 | Bu.... | 30,555 | 0.1 | 25,655 | (2) | 19.1 | |
| 2 Spring wheat..... | 15,713 | 0.2 | 1,285 | (2) | | Bu.... | 80,292 | 0.1 | 28,011 | (2) | 186.6 | |
| 3 Barley..... | 1,186 | 0.1 | (3) | | | Bu.... | 10,565 | 0.1 | (3) | | | |
| 4 Rye..... | 2,040 | 0.1 | (3) | | | Bu.... | 8,673 | 0.1 | (3) | | | |
| Hay and forage: | | | | | | | | | | | | |
| 5 Small grains cut for hay..... | 1,664 | 0.3 | (3) | | | Tons... | 906 | 0.2 | (3) | | | |
| 6 Other tame or cultivated grasses..... | 1,028 | 0.4 | (3) | | | Tons... | 453 | 0.1 | (3) | | | |
| 7 Wild, salt, or prairie grasses..... | 779 | (2) | 1,057 | (2) | -26.3 | Tons... | 301 | (2) | 1,424 | 0.1 | -78.9 | |

| CROP. | AVERAGE YIELD PER ACRE, 1919. | | | | | | VALUE. | | | | | |
|---|-------------------------------|------------|------------------------|--------------------|--------------------------------|--|----------|------------------------------|---------|------------------------------|------------------------------------|--|
| | Unit. | For state. | On non-irrigated land. | On irrigated land. | | | 1919 | | 1909 | | Per cent of increase. ¹ | |
| | | | | Average. | Per cent of average for state. | Per cent of average on non-irrigated land. | Amount. | Per cent of total for state. | Amount. | Per cent of total for state. | | |
| Cereals: | | | | | | | | | | | | |
| 1 Oats..... | Bu.... | 14.6 | 14.6 | 10.6 | 72.6 | 72.6 | \$24,444 | 0.1 | \$8,368 | | 192.1 | |
| 2 Spring wheat..... | Bu.... | 6.8 | 6.8 | 5.1 | 75.0 | 75.0 | 192,701 | 0.1 | 26,145 | | 637.0 | |
| 3 Barley..... | Bu.... | 11.1 | 11.1 | 8.9 | 80.2 | 80.2 | 12,150 | 0.1 | (3) | | | |
| 4 Rye..... | Bu.... | 6.7 | 6.7 | 4.3 | 64.2 | 64.2 | 12,576 | 0.1 | (3) | | | |
| Hay and forage: | | | | | | | | | | | | |
| 5 Small grains cut for hay..... | Tons.... | 0.60 | 0.60 | 0.54 | 90.0 | 90.0 | 13,137 | 0.2 | (3) | | | |
| 6 Other tame or cultivated grasses..... | Tons.... | 1.23 | 1.23 | 0.44 | 35.8 | 35.8 | 7,474 | 0.1 | (3) | | | |
| 7 Wild, salt, or prairie grasses..... | Tons.... | 0.77 | 0.77 | 0.39 | 50.6 | 50.6 | 4,666 | (2) | 9,518 | 0.1 | -51.0 | |

¹ A minus sign (—) denotes decrease. Per cent not shown when more than 1,000.

² Less than one-tenth of 1 per cent.

³ Not reported separately in 1909.

IRRIGATION—NORTH DAKOTA.

COUNTY TABLE.—ACREAGE IRRIGATED, 1919 AND 1909; AND ACREAGE IN ENTERPRISES, IRRIGATION WORKS, AND CAPITAL INVESTED IN IRRIGATION ENTERPRISES, 1920 AND 1910.

[A minus sign (-) denotes decrease. Per cent not shown when base is less than 100, or when per cent is more than 1,000.]

| | THE STATE. | McKenzie. | Williams. | All other counties. |
|--|------------|-----------|-----------|---------------------|
| 1 Number of all farms in 1920..... | 77,690 | 2,033 | 2,437 | 73,220 |
| 2 Number of farms irrigated in 1919..... | 840 | 156 | 184 | ..... |
| 3 Per cent of all farms..... | 0.4 | 7.7 | 7.6 | ..... |
| 4 Number of farms irrigated in 1909..... | 69 | 7 | 53 | 9 |
| 5 Per cent of increase, 1909-1919..... | ..... | ..... | ..... | ..... |
| LAND AND FARM AREA. | | | | |
| 6 Approximate land area..... acres.. | 44,917,120 | 1,822,080 | 1,808,320 | 41,725,720 |
| 7 All land in farms..... acres.. | 36,214,751 | 1,231,370 | 987,669 | 33,995,812 |
| 8 Improved land in farms..... acres.. | 24,593,178 | 803,700 | 508,372 | 23,691,046 |
| 9 Area irrigated in 1919..... acres.. | 12,072 | 6,630 | 5,442 | ..... |
| 10 Per cent of improved land in farms..... | (1) | 1.3 | 1.1 | ..... |
| 11 Area irrigated in 1909..... acres.. | 10,248 | 850 | 8,043 | 1,355 |
| 12 Per cent of increase, 1909-1919..... | 17.8 | 680.0 | -32.3 | ..... |
| 13 Area enterprises were capable of irrigating in 1920..... acres.. | 34,235 | 14,726 | 19,509 | ..... |
| 14 Area enterprises were capable of irrigating in 1910..... acres.. | 21,917 | 850 | 10,064 | 1,403 |
| 15 Per cent of increase, 1910-1920..... | 53.2 | ..... | -0.8 | ..... |
| 16 Area included in enterprises in 1920..... acres.. | 57,476 | 21,424 | 36,052 | ..... |
| 17 Area included in enterprises in 1910..... acres.. | 38,173 | 1,532 | 34,805 | 1,776 |
| 18 Per cent of increase, 1910-1920..... | 50.6 | ..... | 8.4 | ..... |
| IRRIGATION WORKS. | | | | |
| Independent enterprises: | | | | |
| 19 Number, 1920..... | 30 | 4 | 26 | ..... |
| 20 Number, 1910..... | 49 | 6 | 34 | 9 |
| Main ditches: | | | | |
| 21 Number, 1920..... | 32 | 4 | 28 | ..... |
| 22 Number, 1910..... | 47 | 5 | 35 | 7 |
| 23 Length, 1920..... miles.. | 58 | 26 | 32 | ..... |
| 24 Length, 1910..... miles.. | 52 | 8 | 40 | 4 |
| 25 Capacity, 1920..... second-feet.. | 836 | 276 | 560 | ..... |
| 26 Capacity, 1910..... second-feet.. | 2,161 | 162 | 1,703 | 296 |
| Laterals: | | | | |
| 27 Number, 1920..... | 58 | ..... | 58 | ..... |
| 28 Number, 1910..... | 46 | 16 | 30 | ..... |
| 29 Length, 1920..... miles.. | 93 | 34 | 59 | ..... |
| 30 Length, 1910..... miles.. | 74 | 1 | 73 | ..... |
| Reservoirs: | | | | |
| 31 Number, 1920..... | 9 | 1 | 8 | ..... |
| 32 Number, 1910..... | 22 | 8 | 13 | 1 |
| 33 Capacity, 1920..... acre-feet.. | 1,110 | 400 | 710 | ..... |
| 34 Capacity, 1910..... acre-feet.. | 132,187 | 25 | 132,157 | 5 |
| Pumped wells: | | | | |
| 35 Number, 1920..... | ..... | ..... | ..... | ..... |
| 36 Number, 1910..... | 1 | ..... | ..... | 1 |
| 37 Capacity, 1920..... gallons per minute.. | ..... | ..... | ..... | ..... |
| 38 Capacity, 1910..... gallons per minute.. | 15 | ..... | ..... | 15 |
| Pumping plants: | | | | |
| 39 Number, 1920..... | 4 | ..... | 4 | ..... |
| 40 Number, 1910..... | 4 | 1 | 1 | 2 |
| 41 Engine capacity, 1920..... horsepower.. | 2,068 | 1,980 | 88 | ..... |
| 42 Engine capacity, 1910..... horsepower.. | 2,038 | 30 | 2,000 | 3 |
| 43 Pump capacity, 1920..... gallons per minute.. | 51,250 | ..... | 51,250 | ..... |
| 44 Pump capacity, 1910..... gallons per minute.. | 182,115 | 2,000 | 180,000 | 115 |
| 45 Average lift, 1920..... feet.. | 38 | ..... | 38 | ..... |
| CAPITAL INVESTED. | | | | |
| 46 Capital invested to Jan. 1, 1920..... dollars.. | 1,857,118 | 1,235,209 | 621,909 | ..... |
| 47 Capital invested to July 1, 1910..... dollars.. | 836,482 | 6,663 | 781,100 | 48,719 |
| 48 Per cent of increase, 1910-1920..... | 122.0 | ..... | -20.4 | ..... |
| 49 Average cost per acre based on area enterprises were capable of supplying with water in 1920..... dollars.. | 54.25 | 83.88 | 31.88 | ..... |
| 50 Average cost per acre based on area enterprises were capable of supplying with water in 1910..... dollars.. | 38.17 | 7.84 | 39.72 | 34.72 |
| ESTIMATED FINAL COST. | | | | |
| 51 Estimated final cost of existing enterprises in 1920..... dollars.. | 2,072,766 | 1,321,457 | 751,309 | ..... |
| 52 Estimated final cost of existing enterprises in 1910..... dollars.. | 836,482 | 6,663 | 781,100 | 48,719 |
| 53 Per cent of increase, 1910-1920..... | 147.8 | ..... | -3.8 | ..... |
| 54 Average cost per acre based on estimated final cost and area included in enterprises in 1920..... dollars.. | 36.06 | 61.68 | 20.84 | ..... |
| 55 Average cost per acre based on estimated final cost and area included in enterprises in 1910..... dollars.. | 21.91 | 4.35 | 22.40 | 27.43 |

1 Less than one-tenth of 1 per cent.

DRAINAGE—NORTH DAKOTA.

INTRODUCTION.

The following pages present the statistics of drainage for North Dakota 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 considerable 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.

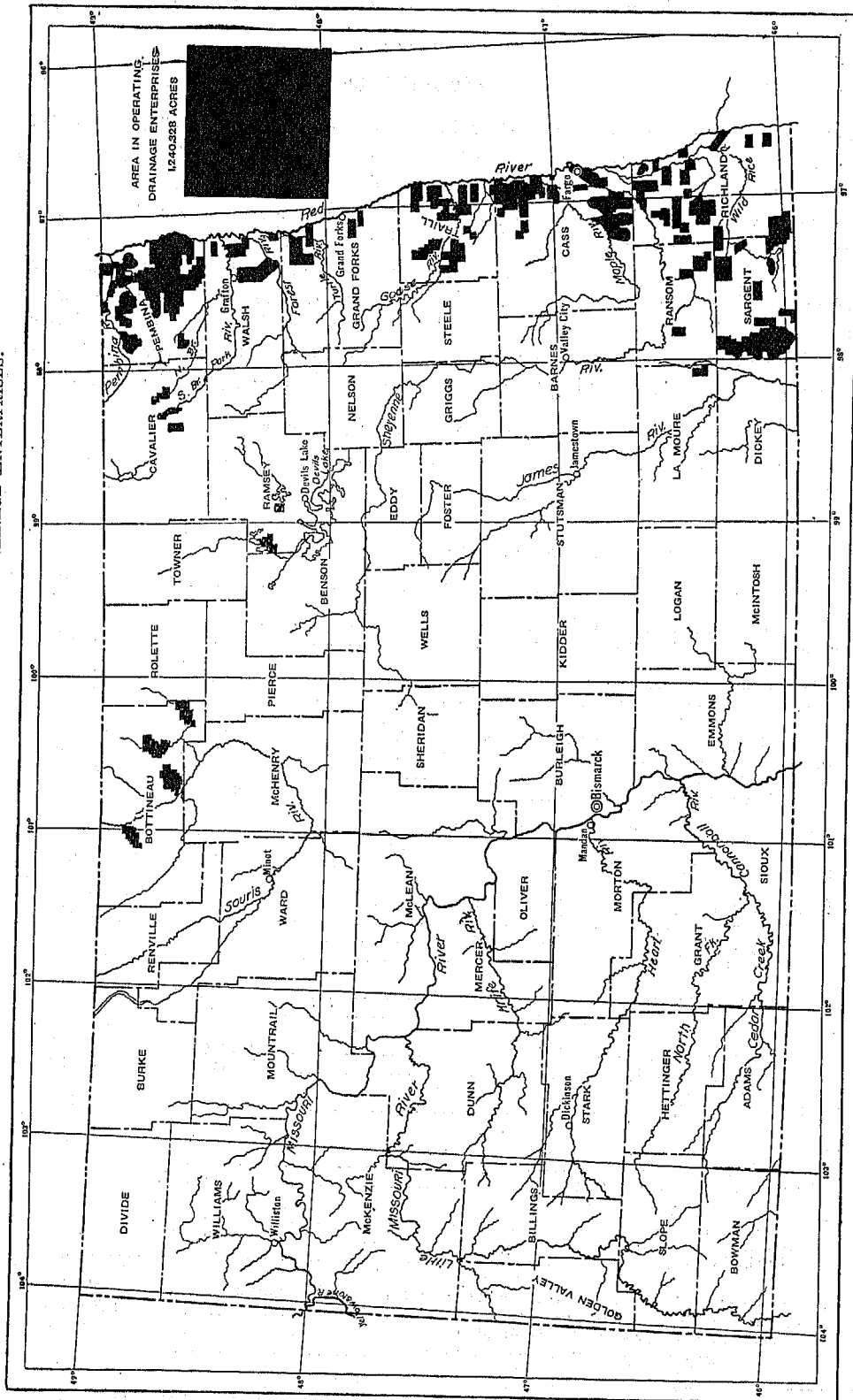
| ITEM. | Amount. | Per cent of total. |
|---|---------------|--------------------|
| DRAINAGE ON FARMS. | | |
| Number of all farms in the state..... | 77, 690 | 100. 0 |
| Farms reporting land having drainage..... | 682 | 0. 9 |
| Farms reporting land needing drainage..... | 2, 669 | 3. 4 |
| All land in farms.....acres.. | 36, 214, 751 | 100. 0 |
| Improved land in farms.....acres.. | 24, 563, 178 | 67. 8 |
| Farm land reported as provided with drainage.....acres.. | 89, 054 | 0. 2 |
| Farm land reported as needing drainage.....acres.. | 211, 305 | 0. 6 |
| Needing drainage only.....acres.. | 53, 161 | 0. 1 |
| Needing drainage and clearing.....acres.. | 158, 144 | 0. 4 |
| DRAINAGE ENTERPRISES. | | |
| Approximate land area of the state.....acres.. | 44, 917, 120 | 100. 0 |
| All land in operating drainage enterprises.....acres.. | 1, 240, 328 | 2. 8 |
| Improved land.....acres.. | 1, 026, 574 | 2. 3 |
| Per cent of all improved land in farms..... | 4. 2 | ----- |
| Unimproved land ¹.....acres.. | 213, 754 | 0. 5 |
| Swampy, subject to overflow, seeped, or alkali.....acres.. | 12, 332 | (2) |
| Suffering a loss of crops from defective drainage.....acres.. | 4, 819 | (2) |
| Improved land prior to drainage.....acres.. | 691, 005 | 1. 5 |
| Increase since drainage began.....acres.. | 335, 569 | 0. 7 |
| Land in nonoperating enterprises.....acres.. | 8, 000 | (2) |
| Open ditches in operating enterprises.....miles.. | 712. 3 | 100. 0 |
| Completed.....miles.. | 708. 3 | 99. 4 |
| Additional under construction.....miles.. | 4. 0 | 0. 6 |
| Tile drains in operating enterprises.....miles.. | 9. 3 | 100. 0 |
| Completed.....miles.. | 9. 3 | 100. 0 |
| Additional under construction.....miles.. | ----- | ----- |
| Total capital invested in and required for completion of operating enterprises..... | \$2, 261, 449 | 100. 0 |
| Capital invested in these enterprises to Dec. 31, 1919..... | 2, 208, 049 | 97. 6 |
| Additional capital required to complete these enterprises..... | 53, 400 | 2. 4 |
| Average cost per acre when completed..... | 1. 82 | ----- |

¹ No timber or cut-over land reported.

² Less than one-tenth of 1 per cent.

NORTH DAKOTA

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 might be any that had completed the original plan of reclamation some 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 by the drain commissioners 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..... | 1,248,328 | 100.0 | \$2,208,049 | 100.0 | \$77,723 |
| Operating enterprises..... | 1,240,328 | 99.4 | 2,208,049 | 100.0 | 53,400 |
| With works completed..... | 1,100,044 | 88.1 | 1,863,788 | 84.4 | ..... |
| With works under construction..... | 140,284 | 11.2 | 344,261 | 15.6 | 53,400 |
| Nonoperating enterprises..... | 8,000 | 0.6 | ..... | ..... | 24,323 |

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.—All but a small part of the area in drainage enterprises in North Dakota is in the extreme eastern part of the state, in the broad belt of comparatively level land which borders Red River. A small area in La Moure County is drained through James River to the Missouri, and the enterprises in Bottineau County are drained through Souris River.

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... | 1,248,328 | 100.0 | \$2,208,049 | 100.0 | \$77,723 |
| Operating enterprises..... | 1,240,328 | 99.4 | 2,208,049 | 100.0 | 53,400 |
| Missouri River..... | 3,800 | 0.3 | 22,500 | 1.0 | ..... |
| Red River..... | 1,187,233 | 95.1 | 2,014,453 | 91.2 | 53,400 |
| Souris River..... | 49,795 | 4.0 | 171,096 | 7.8 | ..... |
| Nonoperating enterprises..... | 8,000 | 0.6 | ..... | ..... | 24,323 |
| Red River..... | 8,000 | 0.6 | ..... | ..... | 24,323 |

Condition of land in enterprises.—The purpose of the drainage enterprises in this state has been the reclamation and improvement of swampy land or

land subject to overflow. None of the enterprises is for the drainage of irrigated land. The natural channels of the streams tributary to Red River where they cross the level bottom land are not adequate to carry the run-off from storms and from melting snow on the hills to the west. Many of the well-defined channels of small and moderate size practically disappear at short distances below the foot of the hills, so the waters are spread over considerable areas until artificial channels are provided. The drainage of this valley as a whole is rendered specially difficult by the northward course of Red River, which may be ice-bound north of the Canadian boundary while higher temperatures in Minnesota and the Dakotas are melting the snow and causing that stream to overflow.

The usual purpose of an organized enterprise is merely to provide adequate outlets into which the landowners 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. | | | | Nonoperating enterprises (acres). |
|------------------------------------|------------------------|-----------------------|--------------------------|-----------------------------------|-----------------------------------|
| | Total. | | Works completed (acres). | Works under construction (acres). | |
| | Acreage. | Per cent of all land. | | | |
| All land in enterprises..... | 1,240,328 | 100.0 | 1,100,044 | 140,284 | 8,000 |
| Improved land..... | 1,026,574 | 82.8 | 920,304 | 106,270 | 5,334 |
| Unimproved land ¹ | 213,754 | 17.2 | 179,740 | 34,014 | 2,666 |
| Swampy or subject to overflow..... | 12,332 | 1.0 | 12,332 | ..... | 2,000 |
| Suffering a loss of crops..... | 4,819 | 0.4 | 4,819 | ..... | ..... |

¹ No timber or cut-over land reported.

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 137 operating drainage enterprises are counted in North Dakota, with an average area of 9,053 acres. There is no overlapping of the enterprises in this state.

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..... | 1,240,328 | 1,240,328 | 100.0 |
| 500 to 999 acres..... | 640 | 640 | 0.1 |
| 1,000 to 4,999 acres..... | 148,680 | 148,680 | 12.0 |
| 5,000 to 9,999 acres..... | 358,390 | 358,390 | 28.9 |
| 10,000 to 49,999 acres..... | 501,877 | 501,877 | 40.4 |
| 50,000 to 99,999 acres..... | 231,241 | 231,241 | 18.6 |

Character of enterprises.—All the drainage enterprises in North Dakota are county drains under the control of the county board of drain commissioners. This board of three freeholders is appointed by the board of county commissioners upon their own volition or upon petition from interested landowners.

The board of drain commissioners may establish drains for wet land whenever such drains will be conducive to public health, convenience, and welfare. If the chief object sought is to drain land to be used for agricultural purposes, a petition for the drain must be signed by six or more freeholders whose property will be affected. Plans, specifications, and estimates are prepared by a surveyor employed by the drain commissioners, who hold a public hearing upon the surveyor's report. The drain is established if sufficient cause for the petition is shown and if the cost of the proposed drain will not exceed the benefits to be derived, provided two-thirds of the landowners who would be subject to assessment do not petition against establishment. Appeal from the decision establishing a drain may be taken to the district court for trial without jury. The cost of the enterprise is assessed against the tracts of land in proportion to the benefits they will receive. Counties, cities, towns, and railroads are assessed if they will be benefited.

Damages for rights of way are determined by jury in the district court, or by the court or a referee if jury trial is waived. Assessments of benefits are made by the board of drain commissioners and reviewed by them at a public hearing. An appeal from these assessments, or for review of the location and design of any drain, may be made to the state engineer by two-thirds of the landowners affected by the drain. Contracts for construction are let by the drain commissioners. Bonds to finance the enterprise may be issued by the board of county commissioners, to run not more than 15 years and to be paid only from the assessments levied for the drain. When a drain is to be located in more than one county, the petition is presented to the board of drain commissioners in each county affected, and all those boards act jointly.

The present county drainage law of North Dakota was enacted March 8, 1895 (ch. 51), but has been amended many times. The principal amendments relate to the number of signatures on the petition (1903), to appeals from decisions of the drain commissioners (1911 and 1915), and to the time of payment of bonds (1901 and 1907). The first general drainage law of the state was enacted March 18, 1893 (ch. 55). It provided for the appointment of a county board of drain commissioners and for a method of establishing county drains generally similar to that provided in the law of 1895, which repealed the earlier statute. Only one enterprise, of 3,520 acres, was reported as organized under the law of 1893.

Township drains may be established by the board of supervisors of any township under a law of March 12, 1915 (ch. 124), as amended March 3, 1919 (ch. 114). These are under the control of the township supervisors. The cost is paid from the township funds if the cost does not exceed \$3,000 and if the enterprise is approved by a majority vote of the people of the township; otherwise the cost is assessed in proportion to benefits. No enterprises were reported as organized under this law.

An act of March 13, 1919 (ch. 115), created a flood-control commission, consisting of the dean of the state agricultural college, the dean of the state school of mines, the state engineer, and two citizens appointed by the governor, to make surveys and plans for controlling floods.

Laws authorizing the establishment of public drains by boards of county commissioners and by boards of township supervisors, upon petition of one or more owners of land to be affected, were enacted by the legislature of Dakota territory in 1883. Viewers were appointed to locate the drains and to assess damages and benefits, the costs being assessed against the lands in proportion to the benefits.

Drainage works.—The total works completed by drainage enterprises to December 31, 1919, comprised 708.3 miles of open ditches, 9.3 miles of tile drains, and 2.1 miles of accessory levees; the additional works under construction were 4.0 miles of open ditches. These figures do not include drains or levees installed by individual farm owners supplemental to the works of the drainage enterprises, nor the works of flood protection or levee districts that had not undertaken the construction of ditches or tile drains. There are no pumping districts in the state.

TABLE 6.—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..... | 1,240,328 | 100.0 | \$2,208,049 | 100.0 | \$53,400 |
| Open ditches only..... | 1,217,028 | 98.1 | 2,146,758 | 97.2 | 53,400 |
| Open ditches and levees..... | 9,600 | 0.8 | 12,368 | 0.6 | ..... |
| Tile drains only..... | 10,820 | 0.9 | 42,908 | 1.9 | ..... |
| Open ditches and tile drains..... | 2,880 | 0.2 | 6,015 | 0.3 | ..... |

The average depth of the main or outlet ditch was reported for each enterprise. The maximum reported for any enterprise in the state and the maximum in each county are shown in line 14 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 15 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 were omitted; to include this group, computed as 3 feet, would not change the mean depth for the state, 3.7 feet.

TABLE 7.—LAND IN OPERATING ENTERPRISES, CLASSIFIED BY AVERAGE DEPTH OF BRANCH DITCHES: 1920.

| DEPTH OF BRANCH DITCHES. | Acreage. | Per cent of total. |
|--------------------------------|-----------|--------------------|
| All operating enterprises..... | 1,240,328 | 100.0 |
| Less than 3 feet..... | 15,800 | 1.2 |
| 3.0 to 3.9 feet..... | 98,200 | 7.8 |
| 4.0 to 4.9 feet..... | 227,124 | 18.3 |
| Not reporting branches..... | 901,404 | 72.7 |

Maintenance of works.—The drainage law of 1895 provided that all drains constructed under that act should be kept in good repair by the board of county commissioners, and the existing statutes have made that provision applicable to the improvements established under any drainage law of the state. In the case of a drain that is situated in more than one county, the board of county commissioners of each county affected is required to keep in good condition the portion of the drain that is situated in that county. However, systematic maintenance was reported for enterprises embracing a total of only 82,080 acres, representing an investment of \$82,459, the work being done by contract.

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 districts were established by the drain commissioners, since there may be a period of a year or more between the decree 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, including extensions made after the original plan of reclamation was completed.

TABLE 8.—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..... | 1,240,328 | 100.0 | 1,240,328 | 100.0 |
| 1890 to 1899..... | 87,340 | 7.0 | 87,340 | 7.0 |
| 1900 to 1904..... | 176,055 | 14.2 | 176,055 | 14.2 |
| 1905 to 1909..... | 611,659 | 49.3 | 611,659 | 49.3 |
| 1910 to 1914..... | 61,380 | 5.0 | 61,380 | 5.0 |
| 1915 to 1919..... | 303,894 | 24.5 | 303,894 | 24.5 |

TABLE 9.—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..... | \$2,208,049 | 100.0 | \$53,400 |
| 1890 to 1899..... | 154,061 | 7.0 | ..... |
| 1900 to 1904..... | 183,657 | 8.3 | ..... |
| 1905 to 1909..... | 965,459 | 43.7 | ..... |
| 1910 to 1914..... | 70,940 | 3.2 | ..... |
| 1915 to 1919..... | 833,932 | 37.8 | 53,400 |

TABLE 10.—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. ¹ | Miles. | Per cent of total. ¹ |
| All drains and levees.. | 712.3 | 100.0 | 9.3 | 100.0 | 2.1 | 100.0 |
| 1890 to 1899..... | 63.3 | 8.9 | ..... | ..... | 0.1 | ..... |
| 1900 to 1904..... | 90.5 | 12.7 | ..... | ..... | 2.0 | ..... |
| 1905 to 1909..... | 334.8 | 47.0 | 0.3 | ..... | ..... | ..... |
| 1910 to 1914..... | 32.7 | 4.6 | ..... | ..... | ..... | ..... |
| 1915 to 1919..... | 191.0 | 26.8 | 9.0 | ..... | ..... | ..... |

¹ Per cent not shown when base is less than 100.

Crops.—The principal crop grown upon the drained land was reported as wheat for most of the drainage enterprises, though hay was so reported for a small part of them. Statistics 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. Information was not obtained at the general census of agriculture to separate the crops grown upon land drained artificially from those produced upon land drained naturally.

DRAINAGE—NORTH DAKOTA.

COUNTY TABLE I.—DRAINAGE ON FARMS: 1920.

| | | THE STATE. | Botti- neau. | Cass. | Emmons. | Grand Forks. | Griggs. | Moun- trail. | Pem- bina. |
|----------------------------|--|------------|-----------------|-----------|-----------|-----------------|---------|-----------------|---------------|
| 1 | Number of all farms in the state or county | 77,690 | 2,203 | 2,374 | 1,449 | 2,007 | 963 | 2,000 | 1,795 |
| 2 | Farms reporting land having drainage | 682 | 148 | 77 | 67 | 10 | 7 | 5 | 44 |
| 3 | Farms reporting land needing drainage | 2,669 | 165 | 141 | 75 | 145 | 50 | 107 | 225 |
| 4 | Farms in drainage and levee districts | 341 | 61 | 65 | ..... | 3 | 5 | 3 | 41 |
| LAND AND FARM AREA. | | | | | | | | | |
| 5 | Approximate land area of the state or county | 44,917,120 | 1,075,840 | 1,128,320 | 1,000,320 | 917,120 | 458,880 | 1,224,600 | 714,880 |
| 6 | All land in farms | 36,214,751 | 939,149 | 1,000,011 | 837,036 | 819,400 | 427,025 | 826,026 | 640,390 |
| 7 | Improved land in farms | 24,563,178 | 794,709 | 844,239 | 487,208 | 719,576 | 336,038 | 414,343 | 567,404 |
| 8 | Woodland in farms | 679,836 | 36,745 | 18,399 | 11,247 | 23,838 | 4,130 | 8,521 | 51,811 |
| 9 | Other unimproved land in farms | 10,971,737 | 107,695 | 37,373 | 339,181 | 73,986 | 86,857 | 402,002 | 21,175 |
| 10 | Farm land reported as provided with drainage | 80,054 | 11,674 | 19,608 | 9,337 | 1,532 | 950 | 605 | 10,598 |
| 11 | Farm land reported as needing drainage | 211,305 | 10,266 | 4,394 | 7,848 | 7,524 | 2,483 | 16,407 | 15,638 |
| 12 | Drainage only | 53,161 | 1,284 | 2,077 | 7,848 | 2,494 | 1,132 | 97 | 168 |
| 13 | Drainage and clearing | 158,144 | 14,982 | 2,317 | ..... | 5,030 | 1,351 | 16,310 | 15,470 |

| | | Ramsey. | Ransom. | Rich- land. | Rolette. | Sargent. | Steele. | Stuts- man. | Trail. | All other counties. ¹ |
|----------------------------|--|---------|---------|----------------|----------|----------|---------|----------------|---------|-------------------------------------|
| 1 | Number of all farms in the county | 1,401 | 1,343 | 2,298 | 1,267 | 1,321 | 987 | 2,487 | 1,263 | 52,532 |
| 2 | Farms reporting land having drainage | 6 | 17 | 44 | 46 | 79 | 7 | 6 | 53 | 66 |
| 3 | Farms reporting land needing drainage | 14 | 4 | 119 | 80 | 206 | 3 | 258 | 23 | 1,054 |
| 4 | Farms in drainage and levee districts | 4 | 1 | 26 | 1 | 78 | 2 | ..... | 38 | 15 |
| LAND AND FARM AREA. | | | | | | | | | | |
| 5 | Approximate land area of the county | 771,200 | 550,400 | 919,680 | 587,620 | 547,200 | 458,880 | 1,460,480 | 553,600 | 32,547,840 |
| 6 | All land in farms | 715,903 | 474,077 | 829,295 | 498,443 | 494,179 | 432,116 | 1,200,738 | 517,311 | 25,563,052 |
| 7 | Improved land in farms | 627,786 | 405,315 | 786,962 | 345,320 | 430,758 | 380,954 | 836,901 | 496,032 | 16,066,153 |
| 8 | Woodland in farms | 4,972 | 14,385 | 15,525 | 53,411 | 2,006 | 8,351 | 12,141 | 13,116 | 400,338 |
| 9 | Other unimproved land in farms | 83,155 | 54,377 | 76,808 | 96,712 | 60,515 | 42,811 | 351,696 | 38,163 | 9,096,561 |
| 10 | Farm land reported as provided with drainage | 525 | 1,569 | 5,476 | 961 | 8,048 | 525 | 627 | 13,131 | 3,588 |
| 11 | Farm land reported as needing drainage | 992 | 210 | 4,702 | 5,882 | 7,471 | 192 | 11,480 | 1,774 | 108,042 |
| 12 | Drainage only | 992 | 210 | 2,606 | 1,376 | 7,318 | 170 | 7,519 | 1,429 | 16,441 |
| 13 | Drainage and clearing ..... | ..... | ..... | 2,096 | 4,506 | 153 | 22 | 3,961 | 345 | 91,601 |

¹ No drainage on farms reported in Billings, Bowman, Burleigh, Dunn, Foster, Golden Valley, Grant, Kidder, Logan, McHenry, Mercer, and Oliver Counties.

DRAINAGE—NORTH DAKOTA.

COUNTY TABLE II.—OPERATING DRAINAGE ENTERPRISES: 1920.

| | | THE STATE. | Bottineau. | Cass. | Cavalier. | Grand Forks. | La Moure. |
|--|---|---------------------|------------|-----------|-----------|--------------|-----------|
| LAND AREA. | | | | | | | |
| 1 | Approximate land area of the state or county..... | acres.. 44,917,120 | 1,075,840 | 1,128,320 | 956,160 | 917,120 | 734,080 |
| 2 | All land in operating drainage enterprises..... | acres.. 1,240,328 | 49,795 | 201,580 | 12,700 | 47,000 | 3,300 |
| 3 | Improved land..... | acres.. 1,026,574 | 32,000 | 155,135 | 4,019 | 40,586 | 2,640 |
| 4 | Per cent of all improved land in farms..... | 4.2 | 4.0 | 18.4 | 0.5 | 5.6 | 0.5 |
| 5 | Unimproved land..... | acres.. 213,754 | 17,795 | 46,445 | 8,681 | 6,414 | 660 |
| 6 | Swampy or subject to overflow, in enterprises..... | acres.. 12,332 | | 960 | | | |
| 7 | Suffering a loss of crops from defective drainage..... | acres.. 4,819 | | | | | |
| 8 | Assessed acreage..... | 1,240,328 | 49,795 | 201,580 | 12,700 | 47,000 | 3,300 |
| 9 | Excess over all land in operating enterprises..... | acres.. | | | | | |
| DRAINAGE WORKS. | | | | | | | |
| Open ditches: | | | | | | | |
| 10 | Completed..... | miles.. 708.3 | 44.0 | 177.3 | 12.0 | 25.8 | |
| 11 | Additional under construction..... | miles.. 4.0 | | 1.5 | | | |
| 12 | Maximum completed in any enterprise..... | miles.. 45.1 | 20.0 | 15.6 | 5.0 | 10.2 | |
| 13 | Maximum width at bottom of ditch ¹ | feet.. 30 | 30 | 29 | 6 | 12 | |
| 14 | Maximum of average depths of outlet ditches ² | feet.. 14.0 | 6.0 | 14.0 | 5.0 | 6.0 | |
| 15 | Mean depth of branch ditches ² | feet.. 3.7 | | | | | |
| Tile drains: | | | | | | | |
| 16 | Completed..... | miles.. 9.3 | | | | | 4.5 |
| 17 | Additional under construction..... | miles.. | | | | | |
| 18 | Maximum completed in any enterprise..... | miles.. 4.5 | | | | | 4.5 |
| 19 | Maximum size of tile ¹ | inches.. 22 | | | | | 22 |
| Accessory levees and dikes: | | | | | | | |
| 20 | Completed..... | miles.. 2.1 | | | | | |
| 21 | Additional under construction..... | miles.. | | | | | |
| 22 | Area drained by open ditches only ² | acres.. 1,217,028 | 49,795 | 201,580 | 12,700 | 47,000 | |
| 23 | Length of these ditches..... | miles.. 706.0 | 44.0 | 178.8 | 12.0 | 25.8 | |
| 24 | Average length per acre..... | feet.. 3.1 | 4.7 | 4.7 | 5.0 | 2.9 | |
| 25 | Area having both open ditches and levees ² | acres.. 9,600 | | | | | |
| 26 | Length of these ditches..... | miles.. 4.0 | | | | | |
| 27 | Average length per acre..... | feet.. 2.2 | | | | | |
| 28 | Length of the accessory levees..... | miles.. 2.1 | | | | | |
| 29 | Area drained by tile only ¹ | acres.. 10,820 | | | | | 3,300 |
| 30 | Length of these tile..... | miles.. 9.0 | | | | | 4.5 |
| 31 | Average length per acre..... | feet.. 4.4 | | | | | 7.2 |
| 32 | Area drained by open ditches and tile ¹ | acres.. 2,880 | | | | | |
| 33 | Length of these drains..... | miles.. 2.6 | | | | | |
| 34 | Average length per acre..... | feet.. 4.8 | | | | | |
| DEVELOPMENT OF LAND. | | | | | | | |
| 35 | Improved land in operating enterprises, 1920..... | acres.. 1,026,574 | 32,000 | 155,135 | 4,019 | 40,586 | 2,640 |
| 36 | Improved land prior to drainage..... | acres.. 691,005 | 26,000 | 115,764 | 3,473 | 28,548 | 2,475 |
| 37 | Increase since drainage..... | acres.. 335,569 | 6,000 | 39,371 | 546 | 12,038 | 165 |
| 38 | Per cent of increase..... | 48.6 | 23.1 | 34.0 | 15.7 | 42.2 | 6.7 |
| 39 | Per cent increase is of all improved land in farms, 1920..... | 1.4 | 0.8 | 4.2 | 0.1 | 1.7 | (*) |
| 40 | Unimproved land, 1920..... | acres.. 213,754 | 17,795 | 46,445 | 8,681 | 6,414 | 660 |
| 41 | Unimproved land prior to drainage..... | acres.. 549,323 | 23,795 | 85,816 | 9,227 | 18,452 | 825 |
| 42 | Decrease since drainage..... | acres.. 335,569 | 6,000 | 39,371 | 546 | 12,038 | 165 |
| 43 | Per cent of decrease..... | 61.1 | 25.2 | 45.9 | 5.9 | 65.2 | 20.0 |
| 44 | Swampy or subject to overflow, 1920..... | acres.. 12,332 | | 960 | | | |
| 45 | Swampy or subject to overflow prior to drainage..... | acres.. 619,169 | 26,659 | 120,086 | 9,653 | 21,660 | 1,650 |
| 46 | Decrease since drainage..... | acres.. 606,827 | 26,659 | 119,126 | 9,653 | 21,660 | 1,650 |
| 47 | Per cent of decrease..... | 98.0 | 100.0 | 99.2 | 100.0 | 100.0 | 100.0 |
| CAPITAL INVESTED AND COST PER ACRE. | | | | | | | |
| 48 | Total capital invested in and required for completion of operating enterprises..... | dollars.. 2,261,449 | 171,096 | 837,690 | 15,785 | 49,894 | 22,500 |
| 49 | Capital invested in these enterprises to Dec. 31, 1919..... | dollars.. 2,205,049 | 171,096 | 806,690 | 15,785 | 49,894 | 22,500 |
| 50 | Additional capital required to complete these enterprises..... | dollars.. 56,400 | | 31,000 | | | |
| 51 | Average cost per acre, when completed..... | dollars.. 1.82 | 3.44 | 4.10 | 1.24 | 1.06 | 6.82 |
| 52 | Enterprises constructing open ditches only..... | dollars.. 2,200,158 | 171,096 | 837,690 | 15,785 | 49,894 | |
| 53 | Average cost per acre, when completed..... | dollars.. 1.81 | 3.44 | 4.10 | 1.24 | 1.06 | |
| 54 | Enterprises constructing open ditches and levees..... | dollars.. 12,368 | | | | | |
| 55 | Average cost per acre, when completed..... | dollars.. 1.29 | | | | | |
| 56 | Enterprises constructing tile drains only..... | dollars.. 42,908 | | | | | 22,500 |
| 57 | Average cost per acre, when completed..... | dollars.. 3.97 | | | | | 6.82 |
| 58 | Enterprises constructing open ditches and tile drains..... | dollars.. 0,015 | | | | | |
| 59 | Average cost per acre, when completed..... | dollars.. 2.09 | | | | | |
| CROPS. | | | | | | | |
| Improved land in enterprises reporting— | | | | | | | |
| 60 | Wheat as principal crop on drained land..... | acres.. 1,000,389 | 24,000 | 155,135 | | 40,586 | 2,640 |
| 61 | Hay and forage as principal crop on drained land..... | acres.. 26,185 | 8,000 | | 4,019 | | |

¹No timber or cut-over land reported.

²When works under construction have been completed.

* Less than one-tenth of 1 per cent.

DRAINAGE—NORTH DAKOTA.

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

| | | Pembina. | Ramsey. | Ransom. | Richland. | Sargent. | Traill. | Walsh. |
|--|--|----------|---------|---------|-----------|----------|---------|---------|
| LAND AREA. | | | | | | | | |
| 1 | Approximate land area of the county | 714,880 | 771,200 | 550,400 | 919,680 | 547,200 | 553,600 | 820,480 |
| 2 | All land in operating drainage enterprises | 280,800 | 12,715 | 23,640 | 204,063 | 205,655 | 145,460 | 53,620 |
| 3 | Improved land | 256,778 | 11,443 | 14,120 | 171,911 | 162,151 | 126,527 | 49,264 |
| 4 | Per cent of all improved land in farms | 45.3 | 1.3 | 3.5 | 23.3 | 37.6 | 27.1 | 7.6 |
| 5 | Unimproved land ¹ | 24,022 | 1,272 | 9,520 | 32,152 | 43,504 | 18,933 | 4,356 |
| 6 | Swampy or subject to overflow, in enterprises | 512 | | | 5,980 | | 4,880 | |
| 7 | Suffering a loss of crops from defective drainage | | | | 4,179 | | 640 | |
| 8 | Assessed acreage | 280,800 | 12,715 | 23,640 | 204,063 | 205,655 | 145,460 | 53,620 |
| 9 | Excess over all land in operating enterprises | | | | | | | |
| DRAINAGE WORKS. | | | | | | | | |
| Open ditches: | | | | | | | | |
| 10 | Completed | 145.8 | 4.0 | 14.5 | 102.2 | 78.8 | 87.1 | 19.0 |
| 11 | Additional under construction | | | | | 2.5 | | |
| 12 | Maximum completed in any enterprise | 24.0 | 2.5 | 6.5 | 12.5 | 45.1 | 8.6 | 7.0 |
| 13 | Maximum width at bottom of ditch ² | 7.0 | 9 | 12 | 17 | 15 | 10 | 14 |
| 14 | Maximum of average depths of outlet ditches ² | 7.0 | 4.0 | 5.0 | 10.0 | 8.0 | 8.0 | 4.7 |
| 15 | Mean depth of branch ditches ² | 3.6 | | 3.0 | 3.5 | 4.0 | | 3.0 |
| Tile drains: | | | | | | | | |
| 16 | Completed | | | | | 4.8 | | |
| 17 | Additional under construction | | | | | | | |
| 18 | Maximum completed in any enterprise | | | | | 4.6 | | |
| 19 | Maximum size of tile ² | | | | | 18 | | |
| Accessory levees and dikes: | | | | | | | | |
| 20 | Completed | 2.1 | | | | | | |
| 21 | Additional under construction | | | | | | | |
| 22 | Area drained by open ditches only ² | 271,200 | 12,715 | 23,640 | 204,063 | 195,255 | 145,460 | 53,620 |
| 23 | Length of these ditches | 141.8 | 4.0 | 14.5 | 102.2 | 78.8 | 87.1 | 19.0 |
| 24 | Average length per acre | 2.8 | 1.7 | 3.2 | 2.6 | 2.1 | 3.2 | 1.9 |
| 25 | Area having both open ditches and levees ² | 9,600 | | | | | | |
| 26 | Length of these ditches | 4.0 | | | | | | |
| 27 | Average length per acre | 2.2 | | | | | | |
| 28 | Length of the accessory levees | 2.1 | | | | | | |
| 29 | Area drained by tile only ² | | | | | 7,520 | | |
| 30 | Length of these tile | | | | | 4.5 | | |
| 31 | Average length per acre | | | | | 3.2 | | |
| 32 | Area drained by open ditches and tile ² | | | | | 2,880 | | |
| 33 | Length of these drains | | | | | 2.6 | | |
| 34 | Average length per acre | | | | | 4.8 | | |
| DEVELOPMENT OF LAND. | | | | | | | | |
| 35 | Improved land in operating enterprises, 1920 | 256,778 | 11,443 | 14,120 | 171,911 | 162,151 | 126,527 | 49,264 |
| 36 | Improved land prior to drainage | 179,720 | 3,075 | 9,550 | 124,962 | 57,412 | 100,400 | 39,620 |
| 37 | Increase since drainage | 77,058 | 8,368 | 4,570 | 46,949 | 104,739 | 26,121 | 9,644 |
| 38 | Per cent of increase | 42.9 | 272.1 | 47.9 | 37.6 | 182.4 | 26.0 | 24.3 |
| 39 | Per cent increase is of all improved land in farms, 1920 | 13.6 | 1.3 | 1.1 | 6.4 | 24.3 | 5.6 | 1.5 |
| 40 | Unimproved land, 1920 ¹ | 24,022 | 1,272 | 9,520 | 32,152 | 43,504 | 18,933 | 4,356 |
| 41 | Unimproved land prior to drainage ¹ | 101,080 | 9,640 | 14,090 | 79,101 | 148,243 | 45,054 | 14,000 |
| 42 | Decrease since drainage | 77,058 | 8,368 | 4,570 | 46,949 | 104,739 | 26,121 | 9,644 |
| 43 | Per cent of decrease | 76.2 | 86.8 | 32.4 | 59.4 | 70.7 | 58.0 | 68.9 |
| 44 | Swampy or subject to overflow, 1920 | 512 | | | 5,980 | | 4,880 | |
| 45 | Swampy or subject to overflow prior to drainage | 95,031 | 9,640 | 20,000 | 126,308 | 102,906 | 63,323 | 22,240 |
| 46 | Decrease since drainage | 94,519 | 9,640 | 20,000 | 120,323 | 102,906 | 58,446 | 22,240 |
| 47 | Per cent of decrease | 99.5 | 100.0 | 100.0 | 95.3 | 100.0 | 92.3 | 100.0 |
| CAPITAL INVESTED AND COST PER ACRE. | | | | | | | | |
| 48 | Total capital invested in and required for completion of operating enterprises | 297,282 | 6,553 | 45,930 | 265,608 | 285,839 | 224,671 | 38,601 |
| 49 | Capital invested in these enterprises to Dec. 31, 1919 | 297,282 | 6,553 | 45,930 | 265,608 | 263,439 | 224,671 | 38,601 |
| 50 | Additional capital required to complete these enterprises | | | | | 22,400 | | |
| 51 | Average cost per acre, when completed | 1.06 | 0.52 | 1.94 | 1.30 | 1.39 | 1.54 | 0.72 |
| 52 | Enterprises constructing open ditches only | 284,914 | 6,553 | 45,930 | 265,608 | 259,416 | 224,671 | 38,601 |
| 53 | Average cost per acre, when completed | 1.05 | 0.52 | 1.94 | 1.30 | 1.33 | 1.54 | 0.72 |
| 54 | Enterprises constructing open ditches and levees | 12,368 | | | | | | |
| 55 | Average cost per acre, when completed | 1.29 | | | | | | |
| 56 | Enterprises constructing tile drains only | | | | | 20,408 | | |
| 57 | Average cost per acre, when completed | | | | | 2.71 | | |
| 58 | Enterprises constructing open ditches and tile drains | | | | | 6,015 | | |
| 59 | Average cost per acre, when completed | | | | | 2.09 | | |
| CROPS. | | | | | | | | |
| 60 | Improved land in enterprises reporting— | | | | | | | |
| 61 | Wheat as principal crop on drained land | 256,778 | 11,443 | 6,900 | 166,911 | 160,205 | 126,527 | 49,264 |
| | Hay and forage as principal crop on drained land | | | 7,220 | 5,000 | 1,946 | | |

¹ No timber or cut-over land reported.

² When works under construction have been completed.

MANUFACTURES—NORTH DAKOTA.

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.—North Dakota has a gross area of 70,837 square miles, of which 70,183 represent land surface. The inhabitants of the state in 1900 numbered 319,146; in 1910, 577,056; and in 1920, 646,872. In total population North Dakota ranked thirty-sixth among the states in 1920. The number of inhabitants per square mile in 1910 was 8.2, the corresponding figure for 1920 being 9.2.

In 1920 there were three cities in the state—Fargo, Grand Forks, and Minot—having more than 10,000 inhabitants. These three cities, with a combined population of 46,447, formed 7.2 per cent of the total population for North Dakota in that year, and reported 33.3 per cent of the value of the state's manufactured products in 1919.

Importance and growth of manufactures (Table 1).—The large increases in wages, cost of materials, and the value of products, as presented in this table, are largely due to the change in industrial conditions brought about by the World War, and, therefore, can not properly be used to measure the growth of manufactures between the industrial censuses of 1914 and 1919. However, the increases in average number of wage earners and horsepower are evidences of the growth of the manufacturing activities of the state. The addition of the Federal income tax since 1914 will account for the increase in "rent and taxes."

Statistics for the state, by counties (Table 2).—Figures are not available for comparison of county totals for other censuses with those for 1919. Statistics presented in this table, however, show that four counties—Cass, Grand Forks, Morton, and Ward—reported 48.2 per cent of the total number of wage earners and of value added by manufacture in North Dakota in 1919.

Principal industries, ranked by value of products (Table 3).—The ranking of industries by value of products is often misleading as to their true importance from a manufacturing standpoint. Their ranking might 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 of the average number of wage earners 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 25.

Average number of wage earners for selected industries (Table 5).—The industries covered by this table are those which employed more than 80 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).—Comparative figures for Minot are not available, since the city had less than 10,000 inhabitants at censuses prior to 1919.

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 cities (Table 8).—In addition to the number of wage earners employed by months, similar data are given for males and females for all industries combined and for the cities of Fargo, Grand Forks, and Minot. There were few industries in the state in 1919 where the number of female wage earners predominated.

Prevailing hours of labor (Table 9).—Since 1914 there has been a marked shortening of the working day in North Dakota. In that year 23.4 per cent of the wage earners were included in the group "48 and under," as against 66.6 per cent in 1919. On the other hand, in 1914 the "60" and "over 60" groups constituted 41.6 per cent of the total wage earners, as compared with 15.9 per cent in 1919.

Size of establishments, by average number of wage earners, for selected industries and 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, 86.2 per cent were in the classes having less than six wage earners, while such establishments employed but 23.4 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 in the case of all items for 1909,

and in the case of 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 several instances to combine the establishments of one group with those of some other group 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 illustrates the fact that the number of establishments of itself is no real index of manufacturing activities. Minot, for instance, with only 2.9 per cent of the total number of establishments in the state, reported 9.7 per cent of the total value of products.

Character of ownership (Table 14).—The predominance of corporate ownership is clearly brought out in this table. Although corporations owned but 30 per cent of the number of establishments in the state in 1919, they reported 76.5 per cent of the average number of wage earners, and 79.4 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 1,055, or 44.6 per cent, and the value of products, \$29,408,314, or 182.2 per cent.

Manufactures, by population groups, in cities of 10,000 inhabitants or more (Table 15).—This table shows that the number of establishments in these three cities in 1919 represented but 19.5 per cent of the total in the state, while they reported 34.9 per cent of the average number of wage earners and 33.3 per cent of the value of products.

Number and horsepower of types of prime movers (Table 16).—Although both the owned and rented power increased from 1914 to 1919, the proportionate increase in rented power was the greater, being 86.9 per cent for the five-year period, as compared with 10.6 per cent for owned power.

Fuel consumed (Table 17).—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.

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..... | 894 | 699 | 752 | 507 | 337 | 27.9 | -7.0 | 48.3 | 50.4 |
| Persons engaged..... | 6,148 | 4,627 | 4,148 | 2,545 | (²) | 32.9 | 11.5 | 68.0 | ..... |
| Proprietors and firm members..... | 774 | 603 | 723 | 494 | (²) | 28.4 | -16.6 | 46.4 | ..... |
| Salaried employees..... | 902 | 749 | 636 | 206 | 152 | 20.4 | 17.8 | 114.9 | 94.7 |
| Wage earners (average number)..... | 4,472 | 3,275 | 2,789 | 1,755 | 1,358 | 36.5 | 17.4 | 53.9 | 26.2 |
| Primary horsepower..... | 17,791 | 14,062 | 13,106 | 9,873 | 7,351 | 26.5 | 6.6 | 33.7 | 34.8 |
| Capital..... | \$24,549,838 | \$14,213,362 | \$11,584,747 | \$5,703,837 | \$3,511,968 | 72.7 | 22.7 | 103.1 | 62.4 |
| Salaries and wages..... | 6,835,367 | 3,302,200 | 2,416,135 | 1,289,119 | 800,853 | 107.0 | 36.7 | 87.4 | 61.0 |
| Salaries..... | 1,434,027 | 885,965 | 628,730 | 257,812 | 129,532 | 61.9 | 40.9 | 143.9 | 99.0 |
| Wages..... | 5,401,330 | 2,416,235 | 1,787,405 | 1,031,307 | 671,321 | 123.5 | 35.2 | 73.3 | 53.6 |
| Paid for contract work..... | 118,159 | 72,009 | 21,323 | 17,860 | (³) | 64.1 | 237.7 | 19.3 | ..... |
| Rent and taxes..... | 654,239 | 213,323 | 159,787 | 77,901 | (²) | 206.7 | 33.5 | ..... | ..... |
| Cost of materials..... | 44,489,499 | 14,484,315 | 13,673,590 | 7,095,986 | 4,150,860 | 207.2 | 5.9 | 92.7 | 71.0 |
| Value of products..... | 57,373,622 | 21,147,431 | 19,137,506 | 10,217,914 | 6,259,840 | 171.3 | 10.5 | 87.3 | 63.2 |
| Value added by manufacture ⁴ | 12,884,123 | 6,663,116 | 5,463,916 | 3,121,928 | 2,108,080 | 93.4 | 21.9 | 75.0 | 48.0 |

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

³ Exclusive of internal revenue.
⁴ Value of products less cost of materials.

MANUFACTURES—NORTH DAKOTA.

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..... | 894 | 4,472 | \$5,401,830 | \$654,239 | \$44,489,499 | \$57,373,622 | \$12,884,123 | 17,791 |
| Adams..... | 7 | 6 | 7,738 | 1,522 | 54,090 | 83,671 | 29,581 | 99 |
| Barnes..... | 24 | 120 | 149,402 | 29,942 | 5,017,032 | 5,479,788 | 462,756 | 1,113 |
| Benson..... | 13 | 7 | 7,604 | 800 | 114,233 | 151,764 | 37,531 | 141 |
| Billings and Sioux ¹ | 3 | 3 | 3,800 | 334 | 1,295 | 6,750 | 5,455 | 2 |
| Bottineau..... | 16 | 17 | 16,606 | 3,460 | 122,863 | 209,677 | 86,814 | 222 |
| Bowman..... | 12 | 11 | 9,218 | 1,886 | 79,460 | 109,265 | 29,799 | 150 |
| Burke..... | 9 | 36 | 55,655 | 1,729 | 144,541 | 246,925 | 102,384 | 32 |
| Burlingame..... | 23 | 140 | 168,348 | 29,686 | 1,406,017 | 1,987,081 | 561,064 | 316 |
| Cass..... | 127 | 903 | 1,103,784 | 119,839 | 6,490,815 | 9,267,911 | 2,777,096 | 2,538 |
| Cavalier..... | 14 | 14 | 15,695 | 2,040 | 39,644 | 90,837 | 51,193 | 91 |
| Dickey..... | 16 | 37 | 38,649 | 45,766 | 2,181,114 | 2,493,874 | 312,760 | 701 |
| Divide..... | 7 | 6 | 5,525 | 1,265 | 43,147 | 62,484 | 19,337 | 33 |
| Dunn..... | 10 | 6 | 4,039 | 1,061 | 81,635 | 112,260 | 30,575 | 169 |
| Eddy..... | 10 | 105 | 122,476 | 12,455 | 206,711 | 405,733 | 199,022 | 148 |
| Emmons..... | 9 | 7 | 5,635 | 1,306 | 18,486 | 46,270 | 26,785 | 51 |
| Foster..... | 13 | 15 | 18,058 | 2,771 | 126,841 | 202,367 | 75,526 | 105 |
| Golden Valley..... | 5 | 11 | 16,550 | 2,671 | 29,551 | 62,157 | 32,003 | 38 |
| Grand Forks..... | 65 | 546 | 582,902 | 110,612 | 5,878,185 | 6,926,029 | 1,546,844 | 1,391 |
| Grant..... | 10 | 7 | 8,025 | 1,444 | 29,219 | 49,520 | 20,301 | 79 |
| Griggs..... | 10 | 13 | 15,356 | 1,712 | 151,160 | 198,357 | 47,197 | 88 |
| Hettinger..... | 14 | 28 | 34,877 | 3,743 | 154,201 | 244,790 | 90,589 | 292 |
| Kidder..... | 6 | 3 | 3,971 | 446 | 46,909 | 57,708 | 10,799 | 41 |
| La Moure..... | 10 | 20 | 23,394 | 2,030 | 259,011 | 320,408 | 61,362 | 405 |
| Logan..... | 4 | 3 | 3,530 | 289 | 47,547 | 61,340 | 13,793 | 92 |
| McHenry..... | 11 | 17 | 24,055 | 1,840 | 63,662 | 110,097 | 46,536 | 93 |
| McIntosh..... | 8 | 33 | 46,326 | 1,067 | 149,074 | 232,572 | 83,498 | 113 |
| McKenzie..... | 10 | 12 | 13,988 | 2,778 | 134,216 | 175,036 | 40,820 | 166 |
| McLean..... | 16 | 15 | 14,920 | 2,110 | 227,257 | 292,399 | 65,142 | 179 |
| Mercer..... | 8 | 6 | 4,854 | 632 | 110,820 | 126,456 | 15,636 | 92 |
| Morton..... | 33 | 342 | 477,904 | 46,348 | 3,169,264 | 4,044,635 | 875,371 | 1,186 |
| Mountrail..... | 10 | 11 | 12,630 | 1,237 | 7,577 | 30,815 | 23,238 | 24 |
| Nelson..... | 19 | 21 | 21,914 | 2,133 | 27,889 | 85,230 | 57,341 | 69 |
| Olivar..... | 3 | 4 | 3,200 | 64 | 48,470 | 60,039 | 11,560 | 23 |
| Pembina..... | 15 | 17 | 20,923 | 2,334 | 352,371 | 417,316 | 64,345 | 153 |
| Pierce..... | 8 | 16 | 15,115 | 2,465 | 325,017 | 376,605 | 50,988 | 162 |
| Ramsey..... | 23 | 220 | 270,564 | 13,757 | 543,780 | 964,934 | 421,154 | 444 |
| Ransom..... | 12 | 152 | 215,135 | 5,777 | 682,054 | 989,070 | 307,016 | 467 |
| Renville..... | 7 | 8 | 6,525 | 1,146 | 76,025 | 100,929 | 24,904 | 130 |
| Richland..... | 45 | 131 | 154,932 | 15,207 | 1,224,486 | 1,635,296 | 410,810 | 670 |
| Rolette..... | 8 | 8 | 7,115 | 1,017 | 72,696 | 99,370 | 26,674 | 293 |
| Sargent..... | 10 | 12 | 13,005 | 1,483 | 99,447 | 135,280 | 35,833 | 44 |
| Sheridan..... | 4 | 2 | 2,197 | 804 | 9,033 | 7,583 | 7,583 | 4 |
| Slope..... | 5 | 149 | 240,924 | 292 | 71,119 | 331,599 | 260,480 | 22 |
| Stark..... | 26 | 210 | 274,219 | 38,301 | 2,676,169 | 3,325,794 | 650,685 | 1,252 |
| Steele..... | 8 | 11 | 13,253 | 846 | 43,360 | 74,675 | 31,315 | 98 |
| Stutsman..... | 33 | 290 | 288,965 | 40,799 | 4,202,683 | 4,997,222 | 794,539 | 1,183 |
| Towner..... | 8 | 6 | 6,068 | 2,107 | 10,902 | 33,065 | 22,163 | 81 |
| Traill..... | 14 | 30 | 29,188 | 2,750 | 82,578 | 135,316 | 62,738 | 161 |
| Walsh..... | 38 | 87 | 89,412 | 7,371 | 2,198,898 | 2,604,620 | 406,222 | 734 |
| Ward..... | 39 | 305 | 421,361 | 62,716 | 4,841,735 | 5,346,667 | 1,004,932 | 1,003 |
| Wells..... | 12 | 62 | 95,825 | 3,344 | 284,664 | 433,688 | 140,024 | 433 |
| Williams..... | 20 | 171 | 188,746 | 13,535 | 538,534 | 850,898 | 312,364 | 310 |

¹ Billings and Sioux Counties combined to avoid disclosure of individual operations.

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. | Amount (expressed in thousands). | Per cent distribution. | | | |
| All industries..... | 894 | 4,472 | 100.0 | \$57,374 | 100.0 | \$12,884 | 100.0 | Confectionery and ice cream..... | 20 | 107 | 2.4 | \$757 | 1.3 | \$317 | 2.5 |
| Flour-mill and gristmill products..... | 87 | 568 | 12.7 | 29,282 | 51.0 | 3,059 | 23.7 | Saddlery and harness..... | 14 | 65 | 1.5 | 676 | 1.2 | 172 | 1.3 |
| Butter..... | 57 | 212 | 4.7 | 11,122 | 19.4 | 1,126 | 8.7 | Printing and publishing, book and job..... | 17 | 103 | 2.3 | 539 | 0.9 | 323 | 2.5 |
| Cars and general shop construction and repairs by steam-railroad companies..... | 21 | 1,539 | 34.4 | 3,183 | 5.5 | 2,241 | 17.4 | Marble and stone work..... | 12 | 33 | 0.7 | 496 | 0.8 | 193 | 1.5 |
| Printing and publishing, newspapers and periodicals..... | 301 | 557 | 12.5 | 2,686 | 4.7 | 2,052 | 15.9 | Copper, tin, and sheet-iron work..... | 16 | 55 | 1.2 | 411 | 0.7 | 194 | 1.5 |
| Bread and other bakery products..... | 68 | 242 | 5.4 | 1,950 | 3.4 | 737 | 5.7 | Mineral and carbonated waters..... | 22 | 31 | 0.7 | 389 | 0.7 | 191 | 1.5 |
| Automobile repairing..... | 139 | 303 | 6.8 | 1,232 | 2.1 | 696 | 5.3 | Gas, illuminating and heating..... | 5 | 43 | 1.0 | 334 | 0.6 | 229 | 1.8 |
| | | | | | | | | Foundry and machine-shop products..... | 20 | 81 | 1.8 | 355 | 0.6 | 221 | 1.7 |
| | | | | | | | | Brick and terra-cotta products..... | 5 | 140 | 3.1 | 309 | 0.5 | 227 | 1.8 |
| | | | | | | | | All other industries..... | 90 | 393 | 8.8 | 3,603 | 6.3 | 918 | 7.1 |

MANUFACTURES—NORTH DAKOTA.

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

| CLASS. | Cen- sus year. | Total. | Male. | Fe- male. | PER CENT OF TOTAL. | | CLASS. | Cen- sus year. | Total. | Male. | Fe- male. | PER CENT OF TOTAL. | |
|--|----------------------|--------|-------|--------------|-----------------------|--------------|--|----------------------|--------|-------|--------------|-----------------------|--------------|
| | | | | | Male. | Fe- male. | | | | | | Male. | Fe- male. |
| All classes..... | 1919 | 6,148 | 5,578 | 570 | 90.7 | 9.3 | Clerks and other subordinate salaried employees. | 1919 | 522 | 325 | 197 | 62.3 | 37.7 |
| | 1914 | 4,627 | 4,164 | 463 | 90.0 | 10.0 | | 1914 | 492 | 359 | 133 | 72.4 | 27.6 |
| | 1909 | 4,148 | 3,777 | 371 | 91.1 | 8.9 | | 1909 | 304 | 303 | 91 | 76.0 | 24.1 |
| Proprietors and officials..... | 1919 | 1,154 | 1,117 | 37 | 96.8 | 3.2 | Wage earners (average number)..... | 1919 | 4,472 | 4,136 | 336 | 92.5 | 7.5 |
| | 1914 | 880 | 836 | 24 | 97.2 | 2.8 | | 1914 | 3,275 | 2,972 | 303 | 90.7 | 9.3 |
| | 1909 | 955 | 936 | 29 | 97.0 | 3.0 | | 1909 | 2,789 | 2,538 | 251 | 91.0 | 9.0 |
| Proprietors and firm members..... | 1919 | 774 | 745 | 29 | 96.3 | 3.7 | 16 years of age and over..... | 1919 | 4,407 | 4,077 | 330 | 92.5 | 7.5 |
| | 1914 | 603 | 582 | 21 | 96.5 | 3.5 | | 1914 | 3,245 | 2,945 | 300 | 90.8 | 9.2 |
| | 1909 | 723 | 697 | 26 | 96.4 | 3.6 | | 1909 | 2,732 | 2,489 | 243 | 91.1 | 8.9 |
| Salaried officers of corporations..... | 1919 | 112 | 108 | 4 | 96.4 | 3.6 | Under 16 years of age..... | 1919 | 65 | 59 | 6 | 90.8 | 9.2 |
| | 1914 | 93 | 82 | 1 | 98.4 | 1.6 | | 1914 | 30 | 27 | 3 | 90.0 | 10.0 |
| | 1909 | 64 | 64 | 0 | 100.0 | 0.0 | | 1909 | 57 | 49 | 8 | 86.0 | 14.0 |
| Superintendents and managers..... | 1919 | 268 | 264 | 4 | 98.5 | 1.5 | | | | | | | |
| | 1914 | 194 | 192 | 2 | 99.0 | 1.0 | | | | | | | |
| | 1909 | 178 | 176 | 3 | 98.3 | 1.7 | | | | | | | |

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. | | Under 16 years of age. | | | | 16 years of age and over. | | Under 16 years of age. |
| | | | Male. | Fe- male. | | | | | Male. | Fe- male. | |
| All industries..... | 1919 | 4,472 | 91.2 | 7.4 | 1.5 | Confectionery and ice cream..... | 1919 | 107 | 42.1 | 57.9 | |
| | 1914 | 3,275 | 89.9 | 9.2 | 0.9 | | 1914 | 109 | 36.7 | 63.3 | |
| | 1909 | 2,789 | 89.3 | 8.7 | 2.0 | Flour-mill and gristmill products..... | 1919 | 508 | 98.9 | 0.7 | 0.4 |
| Automobile repairing..... | 1919 | 303 | 99.7 | 0.3 | | | 1914 | 424 | 100.0 | | |
| | 1914 | 13 | 100.0 | | | Foundry and machine-shop products ¹ | 1919 | 85 | 100.0 | | |
| Bread and other bakery products..... | 1919 | 242 | 64.9 | 33.9 | 1.2 | | 1914 | 76 | 100.0 | | |
| | 1914 | 205 | 72.2 | 27.3 | 0.5 | Printing and publishing, book and job..... | 1919 | 103 | 75.7 | 18.4 | 5.8 |
| Brick and terra-cotta products..... | 1919 | 140 | 88.6 | 0.7 | 10.7 | | 1914 | 127 | 76.4 | 22.8 | 0.8 |
| | 1914 | 171 | 100.0 | | | Printing and publishing, newspapers and periodicals. | 1919 | 557 | 77.2 | 16.9 | 5.9 |
| Butter..... | 1919 | 212 | 90.1 | 9.4 | 0.5 | | 1914 | 625 | 80.6 | 18.0 | 3.4 |
| | 1914 | 115 | 97.4 | 0.9 | 1.7 | All other industries..... | 1919 | 616 | 94.6 | 4.5 | 0.8 |
| Cars and general shop construction and repairs by steam-railroad companies. | 1919 | 1,539 | 98.8 | 1.2 | | | 1914 | 539 | 91.1 | 8.3 | 0.6 |
| | 1914 | 871 | 99.8 | 0.2 | | | | | | | |

¹ Includes "iron and steel, welding."

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.

| | FARGO. | | | GRAND FORKS. | | | MINOT. |
|------------------------------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|
| | 1919 | 1914 | 1909 | 1919 | 1914 | 1909 | 1919 |
| Wage earners (average number)..... | 723 | 690 | 510 | 501 | 343 | 350 | 336 |
| 16 years of age and over..... | 720 | 689 | 506 | 491 | 341 | 336 | 334 |
| Male..... | 614 | 555 | 434 | 429 | 301 | 275 | 324 |
| Female..... | 106 | 134 | 72 | 62 | 40 | 61 | 10 |
| Under 16 years of age..... | 3 | 1 | 4 | 10 | 2 | 14 | 2 |
| Value of products..... | \$6,770,575 | \$3,006,043 | \$2,476,845 | \$6,779,123 | \$1,815,000 | \$1,910,062 | \$5,561,236 |

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..... | 3,996 | 3,000 | <i>2,566</i> | 82.4 | 82.8 | 77.2 | July..... | 4,841 | 3,625 | 3,004 | 99.8 | 100.0 | 98.4 |
| February..... | 4,014 | <i>2,864</i> | 2,386 | 82.8 | 81.5 | 78.2 | August..... | 4,847 | 3,554 | 2,880 | 99.9 | 98.0 | 94.4 |
| March..... | <i>3,989</i> | 2,976 | 2,443 | 82.2 | 82.1 | 80.0 | September..... | 4,758 | 3,533 | 2,927 | 98.1 | 97.5 | 95.9 |
| April..... | 4,175 | 3,104 | 2,580 | 86.1 | 85.6 | 84.5 | October..... | 4,850 | 3,397 | 3,033 | 100.0 | 93.7 | 93.4 |
| May..... | 4,224 | 3,207 | 2,816 | 87.1 | 88.5 | 92.3 | November..... | 4,731 | 3,333 | 3,052 | 97.5 | 91.9 | 100.0 |
| June..... | 4,573 | 3,442 | 3,041 | 94.3 | 95.0 | 99.6 | December..... | 4,666 | 3,175 | 2,950 | 96.2 | 87.6 | 90.7 |

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.

MANUFACTURES—NORTH DAKOTA.

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..... | 4,472 | 3,996 | 4,014 | 3,989 | 4,175 | 4,224 | 4,573 | 4,841 | 4,847 | 4,758 | 4,850 | 4,731 | 4,066 | 82.2 |
| Males..... | 4,136 | 3,703 | 3,724 | 3,703 | 3,866 | 3,902 | 4,224 | 4,488 | 4,481 | 4,403 | 4,481 | 4,359 | 4,298 | 82.5 |
| Females..... | 336 | 293 | 290 | 286 | 309 | 322 | 349 | 353 | 366 | 355 | 369 | 372 | 368 | 76.9 |
| Automobile repairing..... | 303 | <i>203</i> | 209 | 229 | 301 | 323 | 368 | 392 | 389 | 374 | 337 | 273 | 238 | 51.8 |
| Bread and other bakery products..... | 242 | 213 | 209 | 206 | 216 | 224 | 246 | 265 | 270 | 273 | 263 | 264 | 255 | 75.5 |
| Brick and terra-cotta products..... | 140 | 114 | 114 | 118 | 121 | 129 | 204 | 208 | 169 | 134 | 162 | 110 | 38 | 42.3 |
| Butter..... | 212 | <i>131</i> | 133 | 135 | 208 | 230 | 303 | 326 | 271 | 224 | 204 | 193 | 172 | 40.2 |
| Cars and general shop construction and repairs by steam-railroad companies..... | 1,539 | 1,575 | 1,574 | 1,539 | 1,526 | 1,438 | 1,418 | 1,479 | 1,505 | 1,493 | 1,909 | 1,633 | 1,679 | 84.5 |
| Confectionery and ice cream..... | 107 | 82 | 81 | 92 | 94 | 105 | 111 | 113 | 119 | 111 | 122 | 121 | 123 | 66.7 |
| Flour-mill and gristmill products..... | 568 | 580 | 594 | 551 | 547 | 551 | 546 | 558 | 555 | 600 | 619 | 592 | 553 | 86.9 |
| Foundry and machine-shop products..... | 81 | <i>59</i> | 62 | 66 | 73 | 80 | 89 | 107 | 99 | 96 | 86 | 79 | 76 | 55.1 |
| Printing and publishing, book and job..... | 103 | <i>94</i> | 97 | 98 | 96 | 103 | 105 | 97 | 106 | 105 | 107 | 113 | 115 | 81.7 |
| Printing and publishing, newspapers and periodicals..... | 557 | 538 | 554 | 539 | 549 | 552 | 507 | 556 | 561 | 597 | 567 | 571 | 583 | 91.6 |
| All other industries..... | 620 | <i>407</i> | 407 | 416 | 444 | 480 | 611 | 760 | 803 | 781 | 774 | 773 | 784 | 61.9 |
| <i>Industries showing large proportion of females.</i> | | | | | | | | | | | | | | |
| Bread and other bakery products..... | 82 | 67 | 65 | 63 | 68 | 71 | 85 | 90 | 95 | 97 | 94 | 98 | 92 | 63.3 |
| Confectionery and ice cream..... | 62 | <i>50</i> | 56 | 54 | 54 | 60 | 64 | 61 | 64 | 60 | 72 | 73 | 76 | 65.8 |
| Printing and publishing, newspapers and periodicals..... | 100 | 96 | 92 | <i>91</i> | 100 | 97 | 105 | 100 | 103 | 99 | 105 | 102 | 110 | 82.7 |
| Total for cities..... | 1,560 | 1,555 | 1,383 | 1,374 | 1,519 | 1,518 | 1,651 | 1,709 | 1,665 | 1,657 | 1,675 | 1,622 | 1,592 | 79.3 |
| Males..... | 1,382 | 1,205 | 1,230 | 1,227 | 1,366 | 1,356 | 1,471 | 1,628 | 1,468 | 1,405 | 1,470 | 1,411 | 1,387 | 78.9 |
| Females..... | 178 | 150 | 153 | 147 | 153 | 162 | 180 | 181 | 197 | 192 | 205 | 211 | 205 | 69.7 |
| FARGO..... | 723 | 605 | 602 | 614 | 678 | 706 | 795 | 823 | 787 | 791 | 777 | 755 | 743 | 73.1 |
| Males..... | 617 | 514 | 517 | 530 | 588 | 614 | 690 | 718 | 670 | 668 | 654 | 623 | 618 | 71.6 |
| Females..... | 106 | 91 | 85 | 84 | 90 | 92 | 105 | 105 | 117 | 123 | 123 | 132 | 125 | 63.6 |
| GRAND FORKS..... | 501 | 437 | 449 | 445 | 484 | 497 | 529 | 550 | 546 | 527 | 535 | 516 | 507 | 77.6 |
| Males..... | 439 | 379 | 389 | 389 | 429 | 437 | 466 | 489 | 480 | 470 | 493 | 446 | 434 | 76.9 |
| Females..... | 62 | 57 | 60 | 56 | 55 | 60 | 63 | 61 | 66 | 57 | 72 | 70 | 73 | 69.9 |
| MINOT..... | 336 | 323 | 332 | 316 | 357 | 315 | 327 | 336 | 332 | 339 | 363 | 351 | 342 | 86.8 |
| Males..... | 326 | 315 | 324 | 308 | 349 | 305 | 315 | 321 | 318 | 327 | 353 | 342 | 335 | 86.4 |
| Females..... | 10 | 8 | 8 | 7 | 8 | 10 | 12 | 15 | 14 | 12 | 10 | 9 | 7 | 46.7 |

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 | 4,472 | 28. | 167 | 2,782 | 109 | 439 | 274 | 633 | 80 |
| | 1914 | 3,275 | (²) | (²) | 765 | 118 | 560 | 432 | 998 | 368 |
| | 1909 | 2,789 | (²) | (²) | 423 | 188 | 542 | 227 | 1,303 | 108 |
| Automobile repairing..... | 1919 | 303 | | | 40 | 3 | 78 | 1 | 169 | 3 |
| | 1914 | 13 | | | | | 2 | 1 | 10 | |
| Bread and other bakery products..... | 1919 | 242 | | | 162 | | 17 | 4 | 45 | 14 |
| | 1914 | 205 | (²) | (²) | 12 | 10 | 33 | 2 | 122 | 26 |
| Brick and terra-cotta products..... | 1919 | 140 | | | | 7 | 85 | | 48 | |
| | 1914 | 171 | | | | | 16 | | 155 | |
| Butter..... | 1919 | 212 | | | 30 | 2 | 15 | 5 | 126 | 34 |
| | 1914 | 115 | (²) | (²) | 3 | | 9 | 5 | 60 | 38 |
| Cars and general shop construction and repairs by steam-railroad companies..... | 1919 | 1,539 | | 145 | 1,212 | | | 182 | | 162 |
| | 1914 | 871 | (²) | (²) | 280 | | 88 | 341 | | |
| Confectionery and ice cream..... | 1919 | 107 | | | 60 | 12 | 26 | 1 | 6 | 2 |
| | 1914 | 109 | (²) | (²) | 3 | | 60 | 46 | | |
| Flour-mill and gristmill products..... | 1919 | 568 | | 7 | 371 | 1 | 45 | | 110 | 25 |
| | 1914 | 424 | | | | | 13 | 1 | 317 | 93 |
| Foundry and machine-shop products ³ | 1919 | 85 | | | 6 | 28 | 7 | | 44 | |
| | 1914 | 76 | (²) | (²) | 2 | | 2 | | 72 | |
| Printing and publishing, book and job..... | 1919 | 103 | | | 101 | 2 | | | | |
| | 1914 | 127 | (²) | (²) | 97 | 27 | 3 | | | |
| Printing and publishing, newspapers and periodicals..... | 1919 | 557 | 12 | 2 | 472 | 20 | 32 | | 17 | 2 |
| | 1914 | 625 | (²) | (²) | 308 | 64 | 183 | 9 | 59 | 2 |
| All other industries..... | 1919 | 616 | 9 | 20 | 319 | 34 | 134 | 41 | 59 | |
| | 1914 | 539 | (²) | (²) | 60 | 15 | 151 | 67 | 201 | 45 |
| Total for cities..... | 1919 | 1,560 | 9 | 20 | 999 | 74 | 236 | 39 | 160 | 23 |
| | 1914 | 1,033 | (²) | (²) | 218 | 43 | 172 | 114 | 347 | 139 |
| FARGO..... | 1919 | 723 | 9 | 20 | 361 | 74 | 129 | 32 | 75 | 23 |
| | 1914 | 690 | (²) | (²) | 136 | 41 | 147 | 27 | 259 | 80 |
| GRAND FORKS..... | 1919 | 501 | | | 340 | | 103 | | 88 | |
| | 1914 | 343 | (²) | (²) | 82 | 2 | 25 | 87 | 58 | 59 |
| MINOT..... | 1919 | 336 | | | 298 | | 4 | 7 | 27 | |

¹ Includes 48 and under for 1914 and 1909.

² Corresponding figures not available.

³ Includes "iron and steel, welding."

MANUFACTURES—NORTH DAKOTA.

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. | |
| | | | Establishments. | Establishments. | Wage earners. | Establishments. | Wage earners. | Establishments. | Wage earners. | Establishments. | Wage earners. | Establishments. | Wage earners. |
| All industries..... | 894 | 4,472 | 211 | 560 | 1,040 | 34 | 360 | 24 | 765 | 5 | 380 | 10 | 1,421 |
| Automobile repairing..... | 139 | 303 | 12 | 118 | 216 | 9 | 87 | | | | | | |
| Bread and other bakery products..... | 68 | 242 | 10 | 42 | 100 | 6 | 59 | | | 1 | 83 | | |
| Brick and terra-cotta products..... | 5 | 140 | | 1 | 1 | 2 | 27 | | | 1 | 85 | | |
| Butter..... | 57 | 212 | 7 | 42 | 79 | 6 | 83 | 1 | 27 | | | | |
| Cars and general shop construction and repairs by steam-railroad companies..... | 21 | 1,539 | | 3 | 11 | 5 | 65 | 3 | 67 | 1 | 80 | 9 | 1,287 |
| Confectionery and ice cream..... | 20 | 107 | 3 | 13 | 21 | 2 | 19 | | | | | | |
| Flour-mill and gristmill products..... | 87 | 568 | 14 | 51 | 99 | 15 | 130 | | 207 | 2 | 132 | | |
| Foundry and machine-shop products..... | 20 | 81 | 4 | 13 | 29 | 2 | 24 | 1 | 23 | | | | |
| Printing and publishing, book and job..... | 17 | 103 | 5 | 7 | 17 | 4 | 61 | | 25 | | | | |
| Printing and publishing, newspapers and periodicals..... | 301 | 557 | 109 | 173 | 281 | 14 | 123 | 5 | 153 | | | | |
| All other industries..... | 159 | 620 | 38 | 97 | 192 | 19 | 182 | 4 | 112 | | | 1 | 134 |
| Total for cities..... | 174 | 1,560 | 23 | 82 | 196 | 52 | 534 | 13 | 396 | 2 | 139 | 2 | 205 |
| FARGO..... | 101 | 723 | 15 | 45 | 110 | 34 | 369 | 6 | 161 | 1 | 83 | | |
| GRAND FORKS..... | 47 | 501 | 2 | 28 | 62 | 0 | 92 | 7 | 235 | | | 1 | 112 |
| MINOT..... | 26 | 336 | 6 | 9 | 24 | 9 | 78 | | | 1 | 56 | 1 | 183 |

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..... | 894 | 699 | 752 | 4,472 | 3,275 | 2,789 | \$57,373,622 | \$21,147,431 | \$19,137,506 | \$12,884,123 | \$6,663,116 | $5,463,916 |
| Less than \$5,000..... | 357 | 360 | 382 | 202 | 302 | 351 | 953,443 | 906,316 | 915,406 | 647,801 | 677,473 | 658,537 |
| \$5,000 to \$20,000..... | 282 | 206 | 238 | 532 | 551 | 628 | 2,300,794 | 2,000,450 | 2,350,795 | 1,589,010 | 1,000,318 | 1,103,610 |
| \$20,000 to \$100,000..... | 175 | 92 | 99 | 892 | 886 | 951 | 7,335,904 | 4,038,119 | 4,767,125 | 2,676,934 | 1,677,089 | 1,703,216 |
| \$100,000 to \$500,000..... | 63 | 33 | 33 | 2,104 | 1,506 | 1,869 | 13,341,254 | 6,074,865 | 11,104,180 | 4,585,937 | 3,299,236 | 1,908,553 |
| \$500,000 to \$1,000,000..... | 5 | 13 | | 145 | | | 3,689,209 | 1,812,681 | | 470,701 | | |
| \$1,000,000 and over..... | 12 | | | 547 | | | 29,866,008 | | | 2,913,740 | | |
| 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..... | 39.9 | 51.5 | 50.8 | 4.5 | 9.2 | 12.6 | 1.7 | 4.3 | 4.8 | 5.0 | 10.2 | 12.1 |
| \$5,000 to \$20,000..... | 31.5 | 29.5 | 31.6 | 13.0 | 17.7 | 22.5 | 4.9 | 9.5 | 12.3 | 12.3 | 15.1 | 20.2 |
| \$20,000 to \$100,000..... | 19.6 | 13.2 | 13.2 | 19.9 | 27.1 | 34.1 | 12.8 | 19.1 | 24.9 | 20.8 | 25.2 | 31.2 |
| \$100,000 to \$500,000..... | 7.0 | 4.7 | 4.4 | 47.1 | 46.0 | 30.8 | 23.3 | 28.7 | 58.0 | 35.6 | | |
| \$500,000 to \$1,000,000..... | 0.6 | 1.2 | | 3.2 | | | 5.3 | 38.5 | | 3.7 | 49.5 | 36.6 |
| \$1,000,000 and over..... | 1.3 | | | 12.2 | | | 52.1 | | | 22.6 | | |

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

MANUFACTURES—NORTH DAKOTA.

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 | | 1919 | | 1914 | | 1919 | | 1914 | | 1919 | | 1914 | |
| | Per cent distribution. | | Per cent distribution. | | Per cent distribution. | | Per cent distribution. | | Per cent distribution. | | Per cent distribution. | | Per cent distribution. | | Per cent distribution. | |
| | 1919 | 1914 | 1919 | 1914 | 1919 | 1914 | 1919 | 1914 | 1919 | 1914 | 1919 | 1914 | 1919 | 1914 | 1919 | 1914 |
| AUTOMOBILE REPAIRING..... | 139 | 6 | 100.0 | 100.0 | 303 | 13 | 100.0 | 100.0 | \$1,231,981 | \$36,651 | 100.0 | 100.0 | \$686,060 | \$21,984 | 100.0 | 100.0 |
| Less than \$5,000..... | 63 | 3 | 45.3 | 50.0 | 51 | 1 | 16.8 | 7.7 | 174,218 | 9,200 | 14.1 | 25.1 | 114,777 | 6,046 | 16.7 | 27.4 |
| \$5,000 to \$20,000..... | 65 | 3 | 46.8 | 50.0 | 175 | 12 | 57.8 | 92.3 | 631,015 | 27,451 | 51.2 | 74.9 | 396,395 | 16,938 | 57.8 | 72.5 |
| \$20,000 and over..... | 11 | | 7.9 | | 77 | | 25.4 | | 426,748 | | 34.6 | | 174,888 | | 25.5 | |
| BREAD AND OTHER BAKERY PRODUCTS..... | 68 | 58 | 100.0 | 100.0 | 242 | 205 | 100.0 | 100.0 | 1,949,673 | 810,465 | 100.0 | 100.0 | 736,937 | 365,785 | 100.0 | 100.0 |
| Less than \$5,000..... | 13 | 21 | 19.1 | 36.2 | 2 | 14 | 0.8 | 6.8 | 42,691 | 64,779 | 2.2 | 8.0 | 13,837 | 30,562 | 1.9 | 8.4 |
| \$5,000 to \$20,000..... | 28 | 32 | 41.2 | 55.2 | 30 | 38 | 12.4 | 42.0 | 291,275 | 313,551 | 14.9 | 38.7 | 116,267 | 145,013 | 15.8 | 39.1 |
| \$20,000 and over..... | 27 | 5 | 39.7 | 8.6 | 210 | 105 | 86.8 | 51.2 | 1,615,707 | 432,135 | 82.9 | 58.3 | 606,833 | 192,210 | 82.3 | 52.5 |
| BUTTER..... | 57 | 58 | 100.0 | 100.0 | 212 | 115 | 100.0 | 100.0 | 11,121,687 | 1,739,692 | 100.0 | 100.0 | 1,125,017 | 275,215 | 100.0 | 100.0 |
| Less than \$5,000..... | 3 | | 5.3 | | 1 | | 0.5 | | 8,783 | | 0.1 | | 2,654 | | 0.2 | |
| \$5,000 to \$20,000..... | 6 | 136 | 10.5 | 62.1 | 2 | 133 | 0.9 | 28.7 | 84,925 | 1,434,337 | 0.8 | 25.0 | 22,003 | 157,595 | 2.0 | 20.9 |
| \$20,000 to \$100,000..... | 34 | 17 | 59.6 | 29.3 | 53 | 40 | 25.0 | 34.8 | 1,595,652 | 567,606 | 14.3 | 32.6 | 227,634 | 91,522 | 20.2 | 33.3 |
| \$100,000 to \$500,000..... | 8 | 5 | 14.0 | 8.6 | 39 | 42 | 18.4 | 36.5 | 1,583,208 | 737,199 | 14.2 | 42.4 | 203,337 | 126,088 | 18.1 | 45.8 |
| \$500,000 and over..... | 6 | | 10.5 | | 117 | | 55.2 | | 7,849,119 | | 70.6 | | 669,334 | | 59.5 | |
| FLOUR-MILL AND GRISTMILL PRODUCTS..... | 87 | 59 | 100.0 | 100.0 | 568 | 424 | 100.0 | 100.0 | 29,282,056 | 12,029,905 | 100.0 | 100.0 | 3,058,961 | 1,957,631 | 100.0 | 100.0 |
| Less than \$5,000..... | 4 | 3 | 4.6 | 5.1 | | 1 | | 0.2 | 12,196 | 10,428 | 0.1 | 0.1 | 2,351 | 1,821 | 0.1 | 0.1 |
| \$5,000 to \$20,000..... | 17 | 11 | 19.5 | 18.6 | 9 | 14 | 1.6 | 3.3 | 214,197 | 113,789 | 0.7 | 0.9 | 29,297 | 21,036 | 1.0 | 1.1 |
| \$20,000 to \$100,000..... | 36 | 24 | 41.4 | 40.7 | 62 | 65 | 10.9 | 15.3 | 1,595,401 | 1,160,300 | 5.4 | 9.6 | 257,359 | 211,702 | 8.4 | 10.8 |
| \$100,000 to \$500,000..... | 21 | 21 | 24.1 | 35.6 | 139 | 344 | 24.5 | 81.1 | 4,900,312 | 210,745,388 | 16.7 | 89.3 | 516,154 | 2,723,102 | 16.9 | 88.0 |
| \$500,000 and over..... | 9 | | 10.3 | | 358 | | 63.0 | | 22,559,950 | | 77.0 | | 2,253,800 | | 73.7 | |
| PRINTING AND PUBLISHING, NEWSPAPERS AND PERIODICALS..... | 301 | 331 | 100.0 | 100.0 | 557 | 625 | 100.0 | 100.0 | 2,685,869 | 1,805,071 | 100.0 | 100.0 | 2,051,953 | 1,488,253 | 100.0 | 100.0 |
| Less than \$5,000..... | 207 | 256 | 68.8 | 77.3 | 115 | 225 | 20.6 | 36.0 | 552,838 | 637,645 | 20.6 | 35.3 | 416,348 | 525,780 | 20.3 | 35.3 |
| \$5,000 to \$20,000..... | 71 | 64 | 23.6 | 19.3 | 187 | 200 | 30.0 | 32.0 | 601,448 | 495,284 | 22.4 | 27.4 | 461,610 | 394,576 | 22.5 | 28.5 |
| \$20,000 to \$100,000..... | 19 | 11 | 6.3 | 3.3 | 158 | 200 | 28.4 | 32.0 | 775,995 | 3,672,142 | 28.9 | 37.2 | 614,740 | 3,587,902 | 30.0 | 38.2 |
| \$100,000 to \$500,000..... | 4 | | 1.3 | | 117 | | 21.0 | | 755,588 | | 28.1 | | 559,255 | | 27.2 | |

¹ Includes the group "Less than \$5,000."

² Includes the group "\$500,000 and over."

³ Includes the group "\$100,000 to \$500,000."

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. | |
|----------------------------|---------------------------|-----------------|--------------------|--------------------|--------------------|-----------------------------|--------------------|
| | | Average number. | Per cent of total. | Amount. | Per cent of total. | Amount. | Per cent of total. |
| | | | | | | | |
| FARGO..... | 101 | 723 | 100.0 | \$6,770,575 | 100.0 | \$2,422,736 | 100.0 |
| Less than \$5,000..... | 10 | 7 | 1.0 | 40,465 | 0.6 | 31,199 | 1.3 |
| \$5,000 to \$20,000..... | 33 | 101 | 14.0 | 391,187 | 5.8 | 251,875 | 10.4 |
| \$20,000 to \$100,000..... | 30 | 221 | 30.6 | 1,202,838 | 17.5 | 627,390 | 26.9 |
| \$100,000 and over..... | 19 | 394 | 54.5 | 5,136,085 | 75.9 | 1,512,272 | 62.4 |
| GRAND FORKS..... | 47 | 501 | 100.0 | 6,779,123 | 100.0 | 1,460,893 | 100.0 |
| Less than \$5,000..... | 5 | 4 | 0.8 | 12,318 | 0.2 | 6,999 | 0.5 |
| \$5,000 to \$20,000..... | 20 | 55 | 11.0 | 208,315 | 3.1 | 124,908 | 8.6 |
| \$20,000 to \$100,000..... | 15 | 145 | 28.9 | 651,672 | 9.6 | 342,510 | 23.4 |
| \$100,000 and over..... | 7 | 297 | 59.3 | 5,906,817 | 87.1 | 986,476 | 67.5 |
| MINOT..... | 26 | 336 | 100.0 | 5,561,236 | 100.0 | 915,206 | 100.0 |
| Less than \$5,000..... | 3 | | | 6,927 | 0.1 | 5,269 | 0.6 |
| \$5,000 to \$20,000..... | 11 | 22 | 6.5 | 116,760 | 2.1 | 69,296 | 7.6 |
| \$20,000 to \$100,000..... | 7 | 47 | 14.0 | 336,652 | 6.1 | 165,049 | 18.0 |
| \$100,000 and over..... | 5 | 267 | 79.5 | 5,100,897 | 91.7 | 675,592 | 73.8 |

MANUFACTURES—NORTH DAKOTA.

TABLE 14.—CHARACTER OF OWNERSHIP FOR SELECTED INDUSTRIES AND 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. | Indi- vid- uals. | Cor- pora- tions. | All oth- ers. | |
| | | | | | | | | | | | | | | | | | | | Indi- vid- uals. | Cor- pora- tions. | All oth- ers. |
| All industries..... | 1919 | 451 | 268 | 175 | 4,472 | 583 | 3,421 | 468 | 13.0 | 76.5 | 10.5 | \$57,373,622 | \$5,191,635 | \$45,548,509 | \$6,633,478 | 9.0 | 79.4 | 11.6 | |
| | 1914 | 418 | 165 | 116 | 3,275 | 703 | 2,366 | 206 | 21.5 | 72.2 | 6.3 | 21,147,431 | 3,262,469 | 16,140,195 | 1,744,767 | 15.4 | 76.3 | 8.3 | |
| | 1909 | 472 | 133 | 147 | 2,789 | 775 | 1,752 | 262 | 27.8 | 62.8 | 9.4 | 19,137,506 | 3,655,937 | 13,586,608 | 1,994,961 | 18.6 | 71.0 | 10.4 | |
| Automobile repairing..... | 1919 | 68 | 29 | 42 | 303 | 92 | 132 | 79 | 30.4 | 43.6 | 26.1 | 1,231,081 | 346,252 | 534,914 | 350,815 | 28.1 | 43.4 | 28.5 | |
| | 1914 | 1 | 1 | 4 | 13 | | 13 | | | | | 36,651 | | 136,651 | | | | | |
| Bread and other bakery prod- ucts. | 1919 | 51 | 5 | 12 | 242 | 100 | 109 | 33 | 41.3 | 45.0 | 13.6 | 1,949,673 | 897,103 | 759,148 | 293,422 | 46.0 | 38.9 | 15.0 | |
| | 1914 | 48 | 5 | 5 | 205 | 99 | 91 | 15 | 48.3 | 44.4 | 7.3 | 810,465 | 374,238 | 353,506 | 32,671 | 46.2 | 43.6 | 10.2 | |
| Butter..... | 1919 | 21 | 18 | 18 | 212 | 28 | 140 | 44 | 13.2 | 66.0 | 20.8 | 11,121,687 | 918,285 | 8,187,298 | 2,010,104 | 8.3 | 73.6 | 18.1 | |
| | 1914 | 14 | 21 | 23 | 115 | 27 | 59 | 32 | 23.5 | 48.7 | 27.8 | 1,739,092 | 425,525 | 881,514 | 432,653 | 24.4 | 59.3 | 24.9 | |
| Flour-mill and gristmill prod- ucts. | 1919 | 23 | 49 | 15 | 568 | 32 | 501 | 35 | 5.6 | 88.2 | 6.2 | 29,282,056 | 1,073,858 | 27,095,305 | 1,112,893 | 3.7 | 92.5 | 3.8 | |
| | 1914 | 13 | 37 | 9 | 424 | 38 | 354 | 32 | 9.0 | 83.5 | 7.5 | 12,029,908 | 1,005,772 | 10,346,596 | 678,537 | 8.4 | 86.0 | 5.6 | |
| Printing and publishing, newspapers and periodicals. | 1919 | 179 | 77 | 45 | 557 | 154 | 358 | 45 | 27.6 | 64.3 | 8.1 | 2,685,869 | 788,009 | 1,598,017 | 299,843 | 29.3 | 59.5 | 11.2 | |
| | 1914 | 244 | 37 | 50 | 925 | 313 | 261 | 40 | 50.9 | 41.8 | 7.4 | 1,805,071 | 821,308 | 709,857 | 273,840 | 45.5 | 39.3 | 15.2 | |
| Total for cities..... | 1919 | 55 | 82 | 37 | 1,560 | 151 | 1,288 | 121 | 9.7 | 82.6 | 7.7 | 19,110,934 | 1,069,033 | 16,089,326 | 1,952,575 | 5.6 | 84.2 | 10.2 | |
| | 1914 | 37 | 55 | 16 | 1,033 | 137 | 862 | 34 | 13.3 | 83.4 | 3.3 | 4,821,712 | 456,632 | 4,170,158 | 194,922 | 9.5 | 86.5 | 4.0 | |
| FARGO..... | 1919 | 36 | 44 | 21 | 723 | 109 | 535 | 79 | 15.1 | 74.0 | 10.9 | 6,770,576 | 829,617 | 4,329,267 | 1,611,691 | 12.3 | 63.9 | 23.8 | |
| | 1914 | 28 | 36 | 12 | 690 | 109 | 552 | 29 | 15.8 | 80.0 | 4.2 | 3,006,043 | 396,715 | 2,504,307 | 105,021 | 13.2 | 83.3 | 3.5 | |
| GRAND FORKS..... | 1919 | 12 | 26 | 9 | 501 | 24 | 462 | 15 | 4.8 | 92.2 | 3.0 | 6,779,123 | 127,433 | 6,550,027 | 101,663 | 1.9 | 96.6 | 1.5 | |
| | 1914 | 9 | 19 | 4 | 343 | 28 | 310 | 5 | 8.2 | 90.4 | 1.4 | 1,815,669 | 59,917 | 1,655,851 | 89,901 | 3.3 | 91.7 | 5.0 | |
| MINOT..... | 1919 | 7 | 12 | 7 | 336 | 18 | 291 | 27 | 5.4 | 86.6 | 8.0 | 5,561,236 | 111,933 | 5,210,032 | 239,221 | 2.0 | 93.7 | 4.3 | |

¹ Includes the groups "Individuals" and "Corporations."

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 POPU- LATION OF 10,000 OR OVER. | | THE STATE OUTSIDE OF CITIES HAVING A POPU- LATION OF 10,000 OR OVER. | |
|-------------------------------------|----------------------|--------------|---|-----------------------------------|---|-----------------------------------|
| | | | Number or amount. | Per cent of aggre- gate. | Number or amount. | Per cent of aggre- gate. |
| Number of places..... | 1919 | | 3 | | | |
| | 1914 | | 2 | | | |
| | 1909 | | 2 | | | |
| Population ¹ | 1920 | 646,872 | 46,447 | 7.2 | 600,425 | 92.8 |
| | 1915 | 636,946 | 31,178 | 4.5 | 605,768 | 95.5 |
| | 1910 | 577,056 | 26,909 | 4.6 | 550,247 | 95.4 |
| Number of establishments..... | 1919 | 894 | 174 | 19.5 | 720 | 80.5 |
| | 1914 | 699 | 108 | 15.5 | 591 | 84.5 |
| | 1909 | 752 | 99 | 13.2 | 653 | 86.8 |
| Average number of wage earners..... | 1919 | 4,472 | 1,560 | 34.9 | 2,912 | 65.1 |
| | 1914 | 3,275 | 1,033 | 31.5 | 2,242 | 68.5 |
| | 1909 | 2,789 | 800 | 30.8 | 1,989 | 69.2 |
| Value of products..... | 1919 | \$57,373,622 | \$19,110,934 | 33.3 | \$38,262,688 | 66.7 |
| | 1914 | 21,147,431 | 4,821,712 | 22.8 | 16,325,719 | 77.2 |
| | 1909 | 19,137,506 | 4,386,907 | 22.9 | 14,750,599 | 77.1 |
| Value added by manufacture..... | 1919 | 12,834,123 | 4,798,745 | 37.2 | 8,035,378 | 62.8 |
| | 1914 | 6,663,116 | 2,087,718 | 31.3 | 4,575,398 | 68.7 |
| | 1909 | 5,493,916 | 1,726,061 | 31.6 | 3,767,855 | 68.4 |

¹ 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.—NUMBER AND HORSEPOWER OF TYPES OF PRIME MOVERS: 1919, 1914, AND 1909.

| POWER. | NUMBER OF ENGINES OR MOTORS. | | | HORSEPOWER. | | | | | |
|--|------------------------------|-------|-------|-------------|--------|--------|------------------------|-------|-------|
| | | | | Amount. | | | Per cent distribution. | | |
| | 1919 | 1914 | 1909 | 1919 | 1914 | 1909 | 1919 | 1914 | 1909 |
| Primary power, total..... | 1,639 | 1,036 | 749 | 17,791 | 14,062 | 13,196 | 100.0 | 100.0 | 100.0 |
| Owned..... | 409 | 433 | 442 | 12,301 | 11,124 | 12,004 | 60.1 | 79.1 | 61.0 |
| Steam..... | 114 | 135 | 109 | 10,060 | 9,627 | 10,170 | 56.5 | 68.5 | 77.1 |
| Engines..... | 103 | (1) | (1) | 9,589 | (1) | (1) | 53.9 | ..... | ..... |
| Turbines..... | 11 | (1) | (1) | 471 | (1) | (1) | 2.6 | ..... | ..... |
| Internal-combustion engines..... | 289 | 294 | 265 | 1,931 | 1,198 | 1,304 | 11.1 | 8.5 | 9.0 |
| Water..... | 6 | 9 | 8 | 260 | 299 | 330 | 1.5 | 2.1 | 4.0 |
| Water wheels and turbines..... | 5 | 6 | 8 | 250 | 273 | 330 | 1.4 | 1.0 | 4.0 |
| Water motors..... | 1 | 3 | ..... | 10 | 29 | ..... | 0.1 | 0.2 | ..... |
| Rented..... | 1,230 | 598 | 307 | 5,490 | 2,938 | 1,192 | 30.9 | 20.9 | 9.0 |
| Electric..... | 1,230 | 598 | 307 | 5,490 | 2,856 | 1,164 | 30.9 | 20.3 | 8.8 |
| Other..... | ..... | ..... | ..... | ..... | 82 | 28 | ..... | 0.6 | 0.2 |
| Electric..... | 1,357 | 600 | 335 | 6,773 | 3,800 | 1,698 | 100.0 | 100.0 | 100.0 |
| Rented..... | 1,230 | 598 | 307 | 5,490 | 2,856 | 1,164 | 81.1 | 75.2 | 88.6 |
| Generated by establishments reporting..... | 127 | 62 | 28 | 1,283 | 944 | 534 | 18.9 | 24.8 | 31.4 |

¹ Not reported separately.

TABLE 17.—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..... | 1,736 | 192,434 | 1,498 | 2,550 | 2,324 | 6,451 |
| Per cent of increase ² | 5,282 -67.1 | 145,871 31.9 | 1,371 9.3 | 3,280 48.9 | (1) (1) | 2,221 100.5 |
| Automobile repairing..... | 146 | 2,111 | 12 | 19 | 320 | 544 |
| Bread and other bakery products..... | 585 | 3,497 | 373 | 12 | 18 | 1,932 |
| Brick and terra-cotta products..... | ..... | 15,165 | ..... | ..... | ..... | ..... |
| Butter..... | 206 | 6,015 | 72 | 22 | 125 | ..... |
| Cars and general shop construction and repairs by steam-railroad companies..... | ..... | 56,519 | ..... | ..... | ..... | ..... |
| Flour-mill and gristmill products..... | 283 | 79,962 | ..... | 814 | 970 | ..... |
| Gas, illuminating and heating..... | 289 | 15,839 | 625 | 1,620 | 488 | ..... |
| Printing and publishing, newspapers and periodicals..... | 167 | 3,026 | 17 | 45 | 403 | 1,933 |
| All other industries..... | ..... | 10,300 | 397 | 27 | ..... | 2,041 |
| Total for cities..... | 588 | 49,449 | 433 | ..... | 230 | 4,015 |
| FARGO..... | 304 | 19,541 | 140 | ..... | 48 | 3,063 |
| GRAND FORKS..... | 137 | 11,621 | 162 | ..... | 160 | 1,862 |
| MINOT..... | 147 | 21,287 | 122 | ..... | 22 | ..... |

¹ Included in figures for fuel oils.

² A minus sign (-) denotes decrease.

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 three of these industries for North Dakota are here presented.

Flour-mill and gristmill products (Table 18).—Wheat flour is the predominating product at each of the censuses for which figures are shown, representing 77.3 per cent of the total value of products for the industry in 1909, 82 per cent in 1914, and 85.4 per cent in 1919. As illustrative of the high prices of commodities in 1919 as compared with 1914, the quantity of wheat flour increased 2.7 per cent during that five-year period, while the value shows a gain of 153.3 per cent.

TABLE 18.—FLOUR-MILL AND GRISTMILL PRODUCTS (MERCHANT MILLS): 1919, 1914, AND 1909.

| | 1919 | 1914 | 1909 |
|---------------------------------------|--------------|--------------|--------------|
| Total value..... | \$29,282,056 | \$12,029,905 | \$11,685,116 |
| Wheat flour: | | | |
| Barrels..... | 2,224,428 | 2,165,078 | 1,825,920 |
| Value..... | \$24,089,758 | \$9,804,400 | \$9,034,418 |
| Graham flour: | | | |
| Barrels..... | 727 | | |
| Value..... | \$7,726 | | |
| Rye flour: | | | |
| Barrels..... | 361 | 844 | 153 |
| Value..... | \$3,357 | \$4,037 | \$581 |
| Corn meal and corn flour: | | | |
| Barrels..... | 205 | 445 | 1,626 |
| Value..... | \$1,794 | \$2,129 | \$5,124 |
| Buckwheat flour: | | | |
| Pounds..... | 700 | | |
| Value..... | \$56 | | |
| Barley meal: | | | |
| Pounds..... | 144,000 | | |
| Value..... | \$3,300 | | |
| Bran and middlings: | | | |
| Tons..... | 68,267 | 80,415 | |
| Value..... | \$2,779,831 | \$1,594,885 | |
| Feed and offal: | | | 106,932 |
| Tons..... | 32,609 | 13,575 | |
| Value..... | \$1,489,373 | \$463,155 | \$2,360,171 |
| Breakfast foods: | | | |
| Pounds..... | 13,260 | 363,761 | |
| Value..... | \$862 | \$18,480 | |
| All other cereal products, value..... | | \$74,619 | \$266,213 |
| All other products, value..... | \$5,999 | \$8,200 | \$18,609 |

Butter (Table 19).—From 1914 to 1919 there was a much greater increase in both the quantity and value of butter packed solid as compared with that for prints or rolls, the former increasing 277.7 per cent in quantity and 658.1 per cent in value, and the latter 90.5 per cent and 305.8 per cent, respectively.

TABLE 19.—BUTTER: 1919, 1914, AND 1909.

| | 1919 | 1914 | 1909 |
|--------------------------------|--------------|-------------|-------------|
| Total value..... | \$11,121,687 | \$1,739,692 | \$1,029,135 |
| Butter: | | | |
| Packed solid— | | | |
| Pounds..... | 17,069,098 | 4,518,736 | 2,873,519 |
| Value..... | \$8,807,596 | \$1,161,820 | \$756,158 |
| Prints or rolls— | | | |
| Pounds..... | 2,467,887 | 1,295,504 | 810,160 |
| Value..... | \$1,398,802 | \$344,672 | \$225,197 |
| Cream sold: | | | |
| Pounds..... | 110,994 | 307,547 | 3,348 |
| Value..... | \$22,896 | \$30,941 | \$496 |
| All other products, value..... | \$892,893 | \$202,259 | \$47,284 |

Printing and publishing (Table 20).—This table shows the number and average circulation per issue of all newspapers and periodicals published in North Dakota during the years 1919, 1914, and 1909. Of the daily newspapers, 11, with a circulation of 52,819, were published in the afternoon. Nine publications were printed in foreign languages—4 in German, 3 weekly and 1 semiweekly; 2, weekly, in English and German; 2 in Norwegian, 1 weekly and 1 semiweekly; and 1, semiweekly, in English and Norwegian. The aggregate circulation of these was 15,370.

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..... | 324 | 341 | 333 | 495,118 | 457,595 | 372,642 |
| Daily..... | 16 | 12 | 16 | 110,660 | 74,660 | 80,854 |
| Weekly ² | 298 | 317 | 311 | 321,074 | 267,275 | 260,288 |
| Monthly ³ | 10 | 12 | 6 | 63,375 | 115,660 | 31,500 |

¹ Includes 2 Sunday newspapers in 1919 and 1914 and 4 in 1909.

² Includes 3 semiweekly newspapers in 1919, 2 in 1914, and 1 in 1909.

³ Includes 2 bimonthly publications in 1914 and 1 in 1909.

Laundries (Table 21).—Statistics for power laundries are not included in the general tables nor in the totals for manufacturing industries. Table 21, however, summarizes the statistics for such laundries in the state of North Dakota for 1919 and 1914.

TABLE 21.—POWER LAUNDRIES: 1919 AND 1914.

| | NUMBER OR AMOUNT. | | Per cent of increase, ¹ 1914-1919. |
|------------------------------------|-------------------|-----------|---|
| | 1919 | 1914 | |
| Number of establishments..... | 29 | 30 | ..... |
| Persons engaged..... | 488 | 478 | 2.1 |
| Proprietors and firm members..... | 27 | 31 | ..... |
| Salaried employees..... | 35 | 38 | ..... |
| Wage earners (average number)..... | 426 | 409 | 4.2 |
| Primary horsepower..... | 506 | 725 | -30.2 |
| Capital..... | \$615,070 | \$552,458 | 11.3 |
| Salaries and wages..... | 334,889 | 242,805 | 37.9 |
| Salaries..... | 57,592 | 34,852 | 65.2 |
| Wages..... | 277,297 | 207,953 | 33.3 |
| Paid for contract work..... | 1,233 | 2,155 | -42.8 |
| Rent and taxes..... | 25,557 | 13,884 | 84.1 |
| Cost of materials..... | 255,235 | 142,804 | 78.7 |
| Amount received for work done..... | 844,433 | 592,843 | 42.4 |

¹ A minus sign (-) denotes decrease; percentages are omitted where base is less than 100.

Dyeing and cleaning (Table 22).—Statistics for dyeing and cleaning establishments that were operated by mechanical power in 1919 are presented in this table. Statistics for such establishments are not included in the general tables nor in the totals for manufacturing industries for censuses since 1900. This presentation is the first of its kind that has been made since the census statistics were confined to manufacturing industries as distinguished from the hand trades, household industries, etc.

TABLE 22.—DYING AND CLEANING: 1919.

| | Number or amount. |
|------------------------------------|-------------------|
| Number of establishments..... | 14 |
| Persons engaged..... | 90 |
| Proprietors and firm members..... | 20 |
| Salaried employees..... | 6 |
| Wage earners (average number)..... | 64 |
| Primary horsepower..... | 77 |
| Capital..... | \$140,535 |
| Salaries and wages..... | 62,408 |
| Salaries..... | 4,583 |
| Wages..... | 57,825 |
| Paid for contract work..... | 5,850 |
| Rent and taxes..... | 10,892 |
| Cost of materials..... | 40,952 |
| Amount received for work done..... | 201,086 |

Custom gristmills (Table 23).—A summary of the more important data for custom gristmills is presented in this table. These statistics are not included in the general tables nor in the totals for manufacturing industries.

TABLE 23.—CUSTOM GRISTMILLS: 1919 AND 1909.

| | NUMBER OR AMOUNT. | | Per cent of increase, ¹ 1909-1919. |
|--------------------------------------|-------------------|------------------|---|
| | 1919 | 1909 | |
| Number of establishments..... | 98 | 58 | ..... |
| Persons engaged..... | 109 | 79 | ..... |
| Proprietors and firm members..... | 89 | 60 | ..... |
| Salaried employees..... | 2 | 2 | ..... |
| Wage earners (average number)..... | 18 | 17 | ..... |
| Primary horsepower..... | 2,036 | 1,270 | 60.3 |
| Capital..... | \$357,070 | \$168,192 | 112.3 |
| Salaries and wages..... | 17,225 | 8,860 | 94.4 |
| Salaries..... | 1,543 | 950 | 57.4 |
| Wages..... | 15,682 | 7,880 | 99.0 |
| Rent and taxes..... | 6,296 | (²) | ..... |
| Cost of materials ³ | 1,800,135 | 730,458 | 146.4 |
| Value of products ³ | 2,124,677 | 824,782 | 157.6 |

¹ Percentages are omitted where base is less than 100.

² Figures not available.

³ Includes estimate of all grain ground.

GENERAL TABLES.

Table 24 gives the number of establishments, average number of wage earners, primary horsepower, wages, cost of materials, and value of products for all industries combined and for selected industries in the state; and for the cities, Fargo and Grand Forks, similar data for all industries combined, 1919, 1914, and 1909. Certain kindred industries are com-

bined in some instances for comparison with the 1909 figures.

Table 25 presents, for 1919, statistics in detail for the state as a whole and for each industry that can be shown without the disclosure of individual operations and the statistics for all industries combined for the three cities of 10,000 inhabitants or more.

TABLE 24.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND CITIES: 1919, 1914, AND 1909.

| INDUSTRY. | Cen- sus year. | Num- ber of estab- lish- ments. | Wage earners (aver- age num- ber). | Pri- mary horse- power. | Wages. | Cost of mate- rials. | Value of prod- ucts. | INDUSTRY. | Cen- sus year. | Num- ber of estab- lish- ments. | Wage earners (aver- age num- ber). | Pri- mary horse- power. | Wages. | Cost of mate- rials. | Value of prod- ucts. |
|--|----------------|---------------------------------|------------------------------------|-------------------------|---------|----------------------|----------------------|---|----------------|---------------------------------|------------------------------------|-------------------------|--------|----------------------|----------------------|
| | | | | | | | | | | | | | | | |
| All industries..... | 1919 | 804 | 4,472 | 17,791 | \$5,401 | \$44,489 | \$57,374 | Gas, illuminating and heating.. | 1919 | 5 | 43 | 66 | \$60 | \$155 | \$384 |
| | 1914 | 699 | 3,275 | 14,062 | 2,416 | 14,484 | 21,147 | | 1914 | 9 | 52 | 65 | 29 | 109 | 273 |
| | 1909 | 752 | 2,789 | 13,190 | 1,787 | 13,674 | 19,138 | | 1909 | 6 | 28 | 52 | 13 | 78 | 199 |
| Automobile repairing..... | 1919 | 139 | 303 | 767 | 868 | 546 | 1,232 | Lumber, planing mill products, not including planing mills connected with sawmills. | 1919 | 10 | 48 | 423 | 40 | 90 | 198 |
| | 1914 | 6 | 13 | 33 | 8 | 15 | 87 | | 1914 | 6 | 69 | 280 | 53 | 167 | 249 |
| | 1909 | 67 | 146 | 88 | 84 | 343 | 601 | | 1909 | 8 | 63 | 249 | 50 | 89 | 187 |
| Bread and other bakery prod- ucts. | 1919 | 68 | 242 | 323 | 223 | 1,213 | 1,950 | Marble and stone work..... | 1919 | 12 | 33 | 71 | 48 | 303 | 496 |
| | 1914 | 58 | 205 | 226 | 121 | 445 | 810 | | 1914 | 7 | 21 | 10 | 17 | 50 | 92 |
| | 1909 | 67 | 146 | 88 | 84 | 343 | 601 | | 1909 | 7 | 15 | 13 | 11 | 43 | 96 |
| Brick and terra-cotta products.. | 1919 | 5 | 140 | 901 | 157 | 81 | 309 | Mineral and carbonated waters. | 1919 | 22 | 31 | 76 | 34 | 198 | 389 |
| | 1914 | 9 | 171 | 1,723 | 101 | 59 | 270 | | 1914 | 24 | 56 | 149 | 35 | 121 | 282 |
| | 1909 | 13 | 188 | 668 | 88 | 73 | 287 | | 1909 | 26 | 63 | 103 | 38 | 133 | 304 |
| Butter..... | 1919 | 57 | 212 | 1,264 | 241 | 9,997 | 11,122 | Printing and publishing..... | 1919 | 318 | 660 | 1,273 | 781 | 851 | 3,225 |
| | 1914 | 58 | 115 | 669 | 93 | 1,464 | 1,740 | | 1914 | 351 | 752 | 1,212 | 547 | 455 | 2,220 |
| | 1909 | 68 | 62 | 854 | 46 | 891 | 1,029 | | 1909 | 330 | 788 | 948 | 533 | 440 | 1,910 |
| Cars and general shop construc- tion and repairs by steam- railroad companies. | 1919 | 21 | 1,539 | 720 | 2,016 | 941 | 3,183 | Saddlery and harness..... | 1919 | 14 | 65 | 80 | 66 | 504 | 676 |
| | 1914 | 7 | 871 | 718 | 746 | 412 | 1,235 | | 1914 | 10 | 88 | 57 | 63 | 274 | 422 |
| | 1909 | 5 | 463 | 332 | 340 | 300 | 680 | | 1909 | 19 | 98 | 93 | 53 | 462 | 683 |
| Confectionery and ice cream.... | 1919 | 20 | 107 | 172 | 79 | 440 | 757 | All other industries..... | 1919 | 76 | 341 | 1,626 | 432 | 2,590 | 3,384 |
| | 1914 | 6 | 109 | 90 | 52 | 322 | 474 | | 1914 | 63 | 188 | 741 | 109 | 230 | 476 |
| Copper, tin, and sheet-iron work. | 1919 | 16 | 55 | 81 | 60 | 217 | 411 | | 1909 | 111 | 377 | 853 | 207 | 637 | 1,219 |
| | 1914 | 9 | 65 | 72 | 51 | 207 | 321 | CITY. | | | | | | | |
| | 1909 | 8 | 63 | 36 | 41 | 127 | 258 | FARGO..... | 1919 | 101 | 723 | 1,627 | 861 | 4,348 | 6,771 |
| Flour-mill and gristmill prod- ucts. | 1919 | 57 | 568 | 9,664 | 679 | 26,223 | 29,282 | | 1914 | 76 | 690 | 1,275 | 447 | 1,741 | 3,006 |
| | 1914 | 59 | 424 | 7,840 | 330 | 10,072 | 12,030 | | 1909 | 61 | 510 | 789 | 325 | 1,410 | 2,477 |
| | 1909 | 84 | 435 | 8,907 | 283 | 10,055 | 11,685 | GRAND FORKS..... | 1919 | 47 | 501 | 1,175 | 530 | 5,318 | 6,779 |
| Foundry and machine-shop products. ¹ | 1919 | 24 | 85 | 274 | 117 | 140 | 376 | | 1914 | 32 | 343 | 913 | 288 | 993 | 1,816 |
| | 1914 | 17 | 76 | 184 | 61 | 82 | 216 | | 1909 | 38 | 350 | 773 | 218 | 1,251 | 1,910 |

¹ Includes "iron and steel, welding."

MANUFACTURES—NORTH DAKOTA.

TABLE 25.—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.

| | 894 | 6,148 | 774 | 380 | 325 | 197 | 4,472 | Oo 4,850 | Mh 3,089 | (*) | (*) | (*) | (*) | (*) | Dollars. 24,540,838 |
|---|-----|-------|-------|-------|-------|-------|-------|--------------------|--------------------|-------|-------|-------|-------|-------|------------------------|
| 1 All industries..... | 894 | 6,148 | 774 | 380 | 325 | 197 | 4,472 | Oo 4,850 | Mh 3,089 | (*) | (*) | (*) | (*) | (*) | 24,540,838 |
| 2 Artificial stone products..... | 8 | 36 | 9 | 4 | ..... | ..... | 23 | Jy 51 | Ja 2 | 36 | 36 | ..... | ..... | ..... | 33,080 |
| 3 Automobile bodies and parts..... | 5 | 18 | 4 | 2 | ..... | ..... | 12 | Oc ⁴ 16 | Ja ⁴ 10 | 15 | 15 | ..... | ..... | ..... | 27,282 |
| 4 Automobile repairing..... | 189 | 500 | 150 | 20 | 10 | 8 | 303 | Jy 302 | Ja 203 | 203 | 201 | 2 | ..... | ..... | 1,723,901 |
| 5 Bread and other bakery products..... | 68 | 359 | 78 | 10 | 20 | 9 | 242 | So 273 | Mh 206 | 257 | 163 | 91 | 3 | ..... | 843,216 |
| 6 Brick and terra-cotta products..... | 5 | 152 | 3 | 6 | 1 | 2 | 140 | Jy 208 | De 88 | 114 | 102 | 1 | 11 | ..... | 217,551 |
| 7 Butter..... | 57 | 346 | 31 | 31 | 37 | 35 | 212 | Jy 326 | Ja 131 | 184 | 166 | 17 | 1 | ..... | 1,621,167 |
| 8 Carriages and wagons, including repairs..... | 3 | 7 | 4 | ..... | ..... | ..... | 3 | Ja ⁴ 4 | Ja ⁴ 2 | 3 | 3 | ..... | ..... | ..... | 17,408 |
| 9 Cars and general shop construction and repairs by steam-railroad companies..... | 21 | 1,617 | ..... | 53 | 17 | 8 | 1,539 | De 1,679 | Je 1,418 | 1,540 | 1,521 | 19 | ..... | ..... | 2,830,577 |
| 10 Condensed milk..... | 3 | 8 | ..... | 2 | 1 | 2 | 3 | Se ⁴ 6 | Ja ⁴ 1 | 6 | 6 | ..... | ..... | ..... | 96,071 |
| 11 Confectionery and ice cream..... | 20 | 157 | 18 | 13 | 3 | 107 | ..... | ..... | ..... | 133 | 56 | 77 | ..... | ..... | 596,894 |
| 12 Confectionery..... | 6 | 96 | 6 | 8 | 12 | 3 | 67 | Oc ⁴ 80 | Ja ⁴ 57 | 81 | 28 | 53 | ..... | ..... | 301,497 |
| 13 Ice cream..... | 14 | 61 | 12 | 8 | 1 | 40 | Au 51 | Ja 25 | 52 | 28 | 24 | ..... | ..... | ..... | 205,397 |
| 14 Copper, tin, and sheet-iron work..... | 16 | 87 | 16 | 6 | 9 | 1 | 55 | Jy 77 | Ja 37 | 54 | 54 | ..... | ..... | ..... | 319,675 |
| 15 Flour-mill and gristmill products..... | 87 | 748 | 53 | 73 | 42 | 12 | 568 | Oc 619 | Jy 538 | 582 | 577 | 3 | 2 | ..... | 7,745,781 |
| 16 Foundry and machine-shop products..... | 20 | 118 | 22 | 9 | 3 | 3 | 81 | Jy 107 | Ja 59 | 79 | 79 | ..... | ..... | ..... | 301,146 |
| 17 Fur goods..... | 3 | 27 | 4 | ..... | ..... | ..... | 1 | No 30 | Ap 17 | 24 | 8 | 16 | ..... | ..... | 78,876 |
| 18 Gas, illuminating and heating..... | 5 | 69 | ..... | 9 | 14 | 3 | 43 | Oc 51 | Fe ⁴ 37 | 43 | 43 | ..... | ..... | ..... | 1,005,972 |
| 19 Iron and steel, welding..... | 4 | 9 | 5 | ..... | ..... | ..... | 4 | Jy ⁴ 7 | Ja ⁴ 2 | 6 | 6 | ..... | ..... | ..... | 34,975 |
| 20 Lumber, planing-mill products, not including planing mills connected with saw-mills..... | 10 | 63 | 6 | 6 | 2 | 1 | 48 | Se ⁴ 57 | Fe ⁴ 40 | 52 | 52 | ..... | ..... | ..... | 214,716 |
| 21 Marble and stone work, monuments and tombstones..... | 12 | 60 | 11 | 2 | 11 | 3 | 33 | Je 39 | Oc 29 | 30 | 20 | 1 | ..... | ..... | 251,158 |
| 22 Mineral and carbonated waters..... | 22 | 65 | 17 | 8 | 7 | 2 | 31 | Jy 43 | Ja ⁴ 23 | 34 | 34 | ..... | ..... | ..... | 309,275 |
| 23 Printing and publishing, book and job..... | 17 | 149 | 17 | 12 | 10 | 7 | 103 | De 115 | Ja 94 | 114 | 85 | 23 | 6 | ..... | 435,538 |
| 24 Printing and publishing, newspapers and periodicals..... | 301 | 1,040 | 253 | 84 | 75 | 71 | 557 | ..... | ..... | 595 | 460 | 101 | 28 | 6 | 2,739,607 |
| 25 Printing and publishing..... | 9 | 136 | 4 | 16 | 16 | 25 | 75 | (*) 75 | (*) 75 | 74 | 64 | 2 | 8 | ..... | 388,151 |
| 26 Printing, publishing, and job printing.. | 270 | 861 | 230 | 59 | 55 | 40 | 477 | De 503 | Fe 454 | 510 | 392 | 98 | 20 | 6 | 2,308,085 |
| 27 Publishing without printing..... | 16 | 43 | 19 | 9 | 4 | 6 | 5 | (*) 5 | (*) 5 | 5 | 4 | 1 | ..... | ..... | 43,391 |
| 28 Saddlery and harness..... | 14 | 96 | 13 | 8 | 7 | 3 | 65 | Fe ⁴ 76 | Se 58 | 67 | 67 | ..... | ..... | ..... | 634,001 |
| 29 Tobacco, cigars..... | 14 | 31 | 18 | 1 | ..... | ..... | 12 | Au 15 | Ja ⁴ 10 | 15 | 14 | 1 | ..... | ..... | 40,328 |
| 30 All other industries*..... | 40 | 386 | 33 | 18 | 46 | 23 | 266 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 2,423,745 |

| | | | |
|-----------------------------------|--|--|---|
| * All other industries embrace— | Cars and general shop construction and repairs by electric-railroad companies..... | Dental goods, other than teeth..... | Engines, steam, gas, and water..... |
| Agricultural implements..... | ..... | Druggists' preparations..... | Flax and hemp, dressed..... |
| Awnings, tents, and sails..... | ..... | Electrical machinery, apparatus, and supplies..... | Grease and tallow, not including lubricating greases..... |
| Carriage and wagon materials..... | ..... | Electroplating..... | Hand stamps..... |

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

| | | | | | | | | | | | | | | | |
|--------------------|-----|-------|----|----|-----|----|-----|--------|---------------------|-----|-----|-----|----|-------|-----------|
| 1 FARGO..... | 101 | 1,056 | 78 | 89 | 100 | 66 | 723 | Jy 823 | Fe 602 | 768 | 639 | 126 | 3 | ..... | 4,102,057 |
| 2 GRAND FORKS..... | 47 | 683 | 35 | 47 | 62 | 38 | 501 | Jy 550 | Ja 427 | 504 | 421 | 73 | 10 | ..... | 2,030,209 |
| 3 MINOT..... | 26 | 402 | 22 | 17 | 18 | 9 | 336 | Oc 363 | Mh ⁴ 315 | 329 | 317 | 10 | 2 | ..... | 1,672,433 |

¹ Includes water wheels and turbines (irrespective of ownership of water supply) and water motors (operated by water from city mains).
² Electric motors operated by rented (or purchased) current.

MANUFACTURES—NORTH DAKOTA.

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. | | | | 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. ² | | |

THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES.

| Dollars. 853,097 | Dollars. 575,940 | Dollars. 5,401,330 | Dollars. 118,159 | Dollars. 176,291 | Dollars. 477,948 | Dollars. 43,477,254 | Dollars. 1,012,245 | Dollars. 57,373,622 | Dollars. 12,884,123 | 17,701 | 0,589 | 471 | 1,981 | 260 | 5,490 | 1,283 | 1 |
|---------------------|---------------------|-----------------------|---------------------|---------------------|---------------------|------------------------|-----------------------|------------------------|------------------------|--------|--------|-------|-------|-----|-------|-------|-----|
| 3,484 | 21,475 | 2,475 | 75 | 308 | 35,600 | 819 | 85,147 | 48,719 | 17 | 2 | 15 | 2 | 15 | 2 | 2 | 2 | 2 |
| 900 | 22,945 | 22,945 | 1,570 | 246 | 26,054 | 1,689 | 92,928 | 35,185 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 |
| 27,156 | 15,524 | 367,920 | 1,173 | 23,907 | 18,161 | 505,501 | 1,231,981 | 686,080 | 767 | 323 | 444 | 10 | 308 | 10 | 308 | 21 | 4 |
| 23,480 | 33,288 | 222,929 | 3,002 | 22,507 | 14,834 | 1,167,647 | 45,089 | 736,937 | 328 | 600 | 300 | 1 | 1 | 1 | 1 | 1 | 5 |
| 12,650 | 5,617 | 156,566 | 2,133 | 10,675 | 6,448 | 21,513 | 68,707 | 308,550 | 901 | 347 | 30 | 95 | 8 | 3 | 792 | 5 | 6 |
| 92,620 | 87,543 | 241,340 | 15,189 | 7,567 | 58,601 | 9,936,669 | 60,001 | 11,121,687 | 1,125,017 | 1,244 | 15,888 | 8 | 3 | 3 | 3 | 3 | 8 |
| 143,495 | 28,604 | 2,015,973 | 53,204 | 789,040 | 161,269 | 3,182,706 | 2,241,497 | 720 | 322 | 720 | 322 | 720 | 322 | 720 | 322 | 720 | 322 |
| 2,240 | 2,206 | 5,398 | 2,112 | 273 | 33,206 | 1,126 | 48,152 | 13,820 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 |
| 24,684 | 37,259 | 78,904 | 4,508 | 44,342 | 428,647 | 11,716 | 757,057 | 318,694 | 172 | 42 | 39 | 91 | 28 | 11 | 28 | 11 | 12 |
| 15,284 | 35,259 | 46,287 | 3,113 | 40,144 | 178,963 | 4,774 | 394,662 | 210,925 | 63 | 42 | 42 | 21 | 28 | 12 | 28 | 12 | 13 |
| 9,400 | 2,000 | 32,617 | 1,895 | 4,198 | 249,684 | 6,942 | 362,395 | 105,769 | 109 | 109 | 109 | 109 | 109 | 109 | 109 | 109 | 109 |
| 14,632 | 14,922 | 59,936 | 1,034 | 4,728 | 213,595 | 3,478 | 411,278 | 194,205 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 |
| 152,766 | 62,819 | 679,496 | 1,245 | 173,707 | 25,901,190 | 321,005 | 20,282,056 | 3,058,661 | 0,664 | 7,407 | 85 | 1,062 | 250 | 860 | 688 | 15 | 16 |
| 14,141 | 5,937 | 111,355 | 184 | 3,792 | 3,151 | 122,977 | 10,715 | 354,612 | 261 | 261 | 261 | 261 | 261 | 261 | 261 | 261 | 261 |
| 17,279 | 15,019 | 60,076 | 845 | 1,342 | 13,688 | 384,467 | 229,258 | 66 | 50 | 10 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 17,058 | 3,540 | 39,748 | 1,695 | 337 | 4,586 | 1,670 | 21,250 | 14,094 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |
| 5,600 | 32,700 | 48,413 | 10,000 | 459 | 1,763 | 299,513 | 3,647 | 496,038 | 192,878 | 71 | 2 | 69 | 21 | 21 | 21 | 21 | 21 |
| 14,349 | 12,381 | 33,977 | 302 | 5,284 | 15,890 | 192,690 | 5,538 | 388,777 | 190,549 | 76 | 8 | 68 | 23 | 23 | 23 | 23 | 23 |
| 31,709 | 18,450 | 106,814 | 6,811 | 12,030 | 3,072 | 204,655 | 12,580 | 539,158 | 321,923 | 144 | 2 | 142 | 1 | 22 | 1 | 22 | 22 |
| 183,097 | 148,837 | 674,011 | 74,092 | 59,073 | 25,846 | 564,201 | 69,715 | 2,685,869 | 2,051,953 | 1,134 | 7 | 5 | 347 | 775 | 38 | 24 | 24 |
| 36,338 | 36,577 | 119,841 | 600 | 4,164 | 2,912 | 90,766 | 8,958 | 421,385 | 321,661 | 159 | 5 | 5 | 144 | 144 | 144 | 144 | 144 |
| 124,697 | 106,835 | 547,874 | 14,700 | 53,149 | 22,838 | 458,855 | 60,733 | 2,075,014 | 1,555,426 | 975 | 2 | 342 | 631 | 38 | 26 | 26 | 26 |
| 22,162 | 5,375 | 6,296 | 59,392 | 1,760 | 96 | 14,580 | 24 | 180,470 | 174,868 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 |
| 15,500 | 11,280 | 65,999 | 503 | 3,066 | 7,297 | 499,478 | 4,040 | 676,800 | 172,182 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 |
| 1,200 | 14,112 | 1,200 | 1,023 | 9,597 | 34,933 | 975 | 72,284 | 35,376 | 936 | 608 | 41 | 14 | 273 | 150 | 30 | 29 | 29 |
| 59,367 | 38,784 | 340,905 | 2,725 | 10,605 | 18,446 | 2,377,643 | 49,839 | 3,036,572 | 809,090 | 936 | 608 | 41 | 14 | 273 | 150 | 30 | 30 |

| | | | | | | | |
|--|---|-------------------------------------|---|-------------------------------------|---|---------------------------------------|---|
| Ice, manufactured..... | 1 | Optical goods..... | 2 | Signs, electric..... | 1 | Trunks and valises..... | 1 |
| Jewelry..... | 1 | Patent medicines..... | 2 | Slaughtering and meat packing..... | 1 | Upholstering materials..... | 2 |
| Leather, tanned, curried, and finished | 2 | Perfumery and cosmetics..... | 1 | Smelting and refining, not from the | 1 | Windmills..... | 1 |
| Mattresses and spring beds..... | 1 | Photo-engraving..... | 1 | ore..... | 1 | Wooden goods, not elsewhere specified | 1 |
| Oil, composition oil..... | 1 | Pickles, preserves, and sauces..... | 2 | Tools, not elsewhere specified..... | 1 | | |

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

| 208,232 | 178,370 | 861,241 | 52,999 | 48,527 | 58,070 | 4,160,966 | 186,873 | 6,770,575 | 2,422,736 | 1,627 | 103 | 6 | 20 | 10 | 1,488 | 128 | 1 |
|---------|---------|---------|--------|--------|--------|-----------|---------|-----------|-----------|-------|-----|----|----|-----|-------|-----|---|
| 113,478 | 119,995 | 529,518 | 2,825 | 23,248 | 77,131 | 5,239,385 | 78,935 | 6,779,123 | 1,460,803 | 1,175 | 579 | 44 | 4 | 596 | 76 | 2 | 2 |
| 38,780 | 31,111 | 382,836 | 6,300 | 13,351 | 43,502 | 4,592,840 | 53,190 | 5,561,236 | 915,206 | 962 | 735 | | | 179 | | 3 | 3 |

¹ No figures given for reasons stated under "Explanation of terms."

⁴ Same number reported for one or more other months.

² Same number reported throughout the year.

MINES AND QUARRIES—NORTH DAKOTA.

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.

North Dakota, which ranks sixteenth among the states in size (land area, 70,183 square miles) and thirty-sixth in population (646,872 in 1920), ranked thirty-ninth in value of products in 1919. The state ranked forty-first in total number of persons engaged in the mining industry and in the average number of wage earners employed.

The only mining industry in North Dakota for which statistics can be presented for 1919 was the mining of coal. Production of petroleum and natural gas was reported, but the operations were too small to come within the scope of the census. The total value of coal produced was \$1,927,304, an increase of 241.2 per cent over the value of all products reported at the census of 1909. This increase and the increases in capital, salaries and wages, cost of supplies and materials and fuel and power, as shown in Table 1, are in large part due to general price increases during the census interval. The real growth of mining in the state, however, is indicated by the increases in number of enterprises and individual mines and quarries operated and average number of wage earners employed.

The coal mined in North Dakota is lignite. Pro-

duction was reported from the western half of the state, chiefly from Burleigh County, but also from 15 other western counties.

The character of organization of the mining enterprises is shown in Table 2, which brings out the fact that although corporations conducted only about a fourth of the total number of mining enterprises, these were the larger enterprises and they collectively employed 73.8 per cent of the total number of wage earners and reported 66.3 per cent of the total value of products.

Table 3 shows that the coal mines of North Dakota were all small; only 2 enterprises reported more than 50 wage earners, and together these employed 46 per cent of the total number of wage earners.

The prevailing hours of labor in North Dakota mines in 1919 are shown in Table 4 to have been 44 to 53 per week. The 8-hour day and 6-day week prevailed.

The statistics for wage earners given in Table 5, showing changes in the number employed month by month, reflect the influence of seasonal demand.

Table 6 presents statistics in detail for the mining industry of the state.

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..... | 79 | 53 | | Capital..... | \$1,805,347 | \$1,058,040 | 70.2 |
| Number of mines and quarries..... | 79 | 53 | | Principal expenses: | | | |
| Number of natural-gas wells..... | | 6 | | Salaries..... | 150,040 | 62,589 | 155.1 |
| Persons engaged..... | 939 | 602 | 41.8 | Wages..... | 1,020,126 | 304,321 | 182.5 |
| Proprietors and firm members, total..... | 75 | 51 | | Contract work..... | 30,750 | 1,325 | |
| Number performing manual labor in or about the mines and quarries..... | 23 | 10 | | Supplies and materials..... | 283,633 | 95,352 | 107.5 |
| Salaried employees..... | 90 | 49 | | Fuel and power..... | 37,694 | 12,835 | 193.7 |
| Wage earners (average number)..... | 774 | 562 | 37.7 | Royalties and rents..... | 30,868 | 10,047 | 180.9 |
| Power used (horsepower)..... | 2,037 | 2,025 | 0.6 | Taxes..... | 19,922 | 4,300 | 363.3 |
| | | | | Value of products..... | 1,927,304 | 564,812 | 241.2 |

¹ Percentages are omitted where base is less than 100.

TABLE 2.—CHARACTER OF ORGANIZATION, 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. |
| COAL, BITUMINOUS..... | 79 | 774 | \$1,927,304 | \$24,396 | 100.0 | 100.0 | 100.0 |
| Corporation..... | 19 | 571 | 1,278,196 | 67,273 | 24.1 | 73.8 | 66.3 |
| Individual..... | 48 | 160 | 497,140 | 10,357 | 60.8 | 20.7 | 25.8 |
| Firm..... | 12 | 43 | 151,968 | 12,664 | 15.2 | 5.6 | 7.9 |

TABLE 3.—SIZE OF PRODUCING ENTERPRISES, BY AVERAGE NUMBER OF WAGE EARNERS: 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. |
| COAL, BITUMINOUS..... | 79 | 100.0 | 774 | 100.0 | COAL, BITUMINOUS—Con. | | | | |
| No wage earners..... | 3 | 3.8 | | | 21 to 50..... | 4 | 5.1 | 97 | 12.5 |
| 1 to 5..... | 51 | 64.6 | 123 | 15.9 | 51 to 100..... | 1 | 1.3 | 85 | 11.0 |
| 6 to 20..... | 19 | 24.0 | 198 | 25.6 | 101 to 500..... | 1 | 1.3 | 271 | 35.0 |

TABLE 4.—NUMBER OF PRODUCING ENTERPRISES AND AVERAGE NUMBER OF WAGE EARNERS, BY PREVAILING HOURS OF LABOR PER WEEK: 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. | |
| | | | Enter-prises. | Wage earners. | Enter-prises. | Wage earners. | Enter-prises. | Wage earners. | Enter-prises. | Wage earners. |
| Coal, bituminous..... | 176 | 774 | 1 | 14 | 2 | 7 | 87 | 730 | 6 | 23 |

¹ Exclusive of 3 enterprises employing no wage earners.

TABLE 5.—WAGE EARNERS, BY MONTHS: 1919.

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

| INDUSTRY. | Aver- age num- ber em- ployed during year. | NUMBER EMPLOYED ON 15TH DAY OF THE MONTH OR NEAREST REPRESENTATIVE DAY. | | | | | | | | | | | | Per cent minimum is of maxi- mum. |
|-----------------------|--|---|-------------|--------|--------|------|-------|-------|---------|--------------|------------|-------------|-------------|-----------------------------------|
| | | Janu- ary. | Febru- ary. | March. | April. | May. | June. | July. | August. | Sep- tember. | Octo- ber. | Novem- ber. | Decem- ber. | |
| Coal, bituminous..... | 774 | 1,011 | 878 | 807 | 636 | 497 | 472 | 518 | 550 | 776 | 931 | 1,054 | 1,153 | 40.8 |

TABLE 6.—DETAILED STATISTICS FOR THE MINING INDUSTRY: 1919.

| | PRODUCING ENTERPRISES. | | PRODUCING ENTERPRISES. |
|---|------------------------|---------------------|---|
| | Coal, bitumi- nous. | Coal, bitumi- nous. | |
| Number of enterprises..... | 79 | | Persons engaged in industry—Continued. Wage earners by occupation (Dec. 15)—Continued. Miners, quarrymen, and drillmen, including their helpers— Above ground..... 35 Below ground..... 550 Timbermen, trackmen, and men engaged in hauling, tramping, etc.— Above ground..... 35 Below ground..... 158 Muckers, loaders, laborers, and others not classified— Above ground..... 191 Below ground..... 96 Mineral land operated..... acres..... 17,734 Land controlled, total..... acres..... 18,558 Mineral land owned..... 9,305 Mineral land leased..... 8,429 Timber and other lands owned and leased..... 824 Power used: Aggregate horsepower..... 2,037 Prime movers (horsepower, total)..... 1,783 Steam engines— Number..... 23 Horsepower..... 1,530 Internal-combustion engines— Number..... 32 Horsepower..... 253 Purchased power (horsepower, total)..... 254 Electric motors operated by purchased current— Number..... 24 Horsepower..... 254 Electric motors run by current generated by enterprise using: Number..... 9 Horsepower..... 100 Fuel used: Coal, bituminous..... tons, 2,000 pounds.. 16,437 Gasoline and other volatile oils..... barrels.. 451 |
| Number of mines and quarries..... | 79 | | |
| Capital..... | \$1,885,847 | | |
| Principal expenses: | | | |
| Salaries and wages— | | | |
| Officers..... | \$37,279 | | |
| Superintendents and managers..... | \$53,760 | | |
| Technical employees..... | \$29,749 | | |
| Clerks, etc..... | \$38,858 | | |
| Wage earners..... | \$1,029,126 | | |
| Supplies and materials..... | \$283,633 | | |
| Fuel..... | \$32,853 | | |
| Power..... | \$4,841 | | |
| Royalties and rents..... | \$30,868 | | |
| Taxes..... | \$19,922 | | |
| Contract work..... | \$30,750 | | |
| Expenditures for development (included in the above items)..... | \$93,885 | | |
| Value of products..... | \$1,927,304 | | |
| Persons engaged in industry..... | 939 | | |
| Proprietors and firm members (total)..... | 75 | | |
| Number performing manual labor..... | 23 | | |
| Salaried officers..... | 16 | | |
| Superintendents and managers..... | 27 | | |
| Technical employees..... | 17 | | |
| Clerks, etc..... | 30 | | |
| Wage earners (average number)..... | 774 | | |
| Wage earners by occupation (Dec. 15): | | | |
| Above ground (total)..... | 1,318 | | |
| Below ground (total)..... | 836 | | |
| Foremen, shift bosses, etc.— | | | |
| Above ground..... | 15 | | |
| Below ground..... | 16 | | |
| Engineers, holstmen, electricians, mechanics, etc.— | | | |
| Above ground..... | 42 | | |
| Below ground..... | 16 | | |

¹ Includes 2 females.